Deloitte.



Environmental Statement: Volume 2

Plot F – Great Jackson Street

October 2021

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1. Introduction

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Deloitte.



Plot F, Great Jackson Street

Environmental Impact Assessment (EIA) Scoping Report

June 2021

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Important notice: This Environmental Impact Assessment (EIA) Scoping Report has been prepared by Deloitte LLP, with technical input on methodology for proposed Environmental Statement (ES) chapters from Deloitte, GIA, Curtins, WSP, Ekosgen, Enfusion, and Chris Burnett Associates ("the Consultants"). Although we have read the Consultants' input for consistency and provide our observations based on our knowledge and experience, we accept no liability or responsibility for the Consultant's Input and are not responsible for the technical content of Section 5 of this report or the associated appendices.

1. Introduction

Introduction

1.1. This Environmental Impact Assessment (EIA) Scoping Report has been prepared in respect of a proposed residential development relating to land bounded by Great Jackson Street to the south, Deansgate Square to the north, the Boatmans apartments to the east, and industrial units to the west, otherwise known as Plot F of the Great Jackson Street Strategic Development Framework ('GJS Framework'), Manchester City Centre (hereby referred to as 'the Site').

1.2. Renaker Build Ltd will be submitting an application for Full planning permission comprising the demolition of an existing industrial building and the construction of two 51 storey towers, including the provision of two and three-tiered basement car parking and associated works (the 'Proposed Development').

1.3. This Report is submitted to Manchester City Council (MCC) as a request for a Scoping Opinion under Regulation 15 of the Town and Country Planning (Environmental Impact Assessment) Regulations 2017 (the 'EIA Regulations'). In accordance with Regulation 15, paragraph 2, this report contains:

- A plan sufficient to identify the land;
- A brief description of the nature and purpose of the development, including its location and technical capacity;
- An explanation of the likely significant effects of the development on the environment; and,
- Such other information or representations as the person making the request may wish to provide or make.

EIA Requirements

1.4. The EIA process is the mechanism by which development proposals are appraised in terms of environmental criteria, in addition to socio-economic, engineering, and technical considerations. The EIA process defines the context of the Proposed Development and examines the issues considered pertinent.

1.5. The purpose of the EIA is to establish the nature of the development and the environment on which it is likely to take place to identify likely significant effects on the environment that may arise, by comparing the existing situation at the start of the work (baseline) with the situation once the proposals are in place.

1.6. The Town and Country Planning (Environmental Impact Assessment) Regulations 2017 require that any Proposed Development falling within the description of a 'Schedule 2 development' within the meaning of the Regulations, will be subject to an EIA where such development is likely to have 'significant' effects on the environment by virtue of such factors as its nature, size or location.

1.7. The Proposed Development falls under the category of "Infrastructure Projects – Urban Development Projects" (Schedule 2, 10, (b)) as described in the Regulations. The applicable threshold above which EIA is likely to be required is (i) The development includes more than 1 hectare of urban development which is not dwellinghouse development; or (ii) the development includes more than 150 dwellings; or (iii) the overall area of the development exceeds 5 hectares. The indicative thresholds and criteria state that:

"In addition to the physical scale of such developments, consideration should be given to the potential increase in traffic, emissions and noise. EIA is unlikely to be required for the redevelopment of land unless the new development is on a

significantly greater scale than the previous use, or the types of impact are of a markedly different nature or there is a high level of contamination".

1.8. Whilst the Site area is only 0.88 ha, the proposals seek to deliver up to 988 dwellings. Therefore, it is considered the proposals exceed the applicable Schedule 2 thresholds as outlined above, indicating that an EIA is more likely to be required.

1.9. Given the nature of the Proposed Development and Site, an EIA is considered appropriate to test the likely significant effects of the Proposed Development. The Applicant therefore proposes to submit an Environmental Statement ('ES') as part of the planning application as set out in this Scoping Report.

Purpose of the Scoping Report

1.10. The process of identifying likely significant effects on the environment, which should be addressed by the EIA, is termed 'scoping' and the results are presented as a Scoping Report. Regulation 15 of the EIA Regulations set out the requirements for obtaining a scoping opinion from the relevant planning authority as set out in paragraph 1.3 above.

1.11. This Scoping Report sets out the framework within which the ES will be produced and the topic areas and information that will be contained within the document. It is issued to MCC for circulation to Statutory Consultees and other organisations who are invited to express their views on the proposed scope of the EIA or suggest additional issues which may be considered to be of significance. The views expressed by Statutory Consultees will then be used by the LPA to inform the formal Scoping Opinion.

1.12. The LPA is required to respond to a formal request for a Scoping Opinion within five weeks of registering receipt.

1.13. The proposed EIA team, as set out in Table 1.1, will be co-ordinated and led by Deloitte LLP who has significant experience and expertise in managing the EIA process and hold the Institute of Environmental Management and Assessment (IEMA) EIA Quality Mark.

Table 1.1: Proposed EIA Project Team

Topic	Assessment Carried Out By
Air Quality	Ensafe
Climate Change	WSP
Daylight, Sunlight and Overshadowing	GIA
Solar Glare	GIA
Human Health	Scoping input prepared by Deloitte LLP. Human Health consultant to be appointed for EIA, once scope agreed with LPA.
Noise and Vibration	Fisher Acoustics
Townscape and Visual Impact	Chris Burnett Associates
Traffic and Transport	Curtins
Wind Microclimate	WSP
Socio-Economics	Ekosgen

1.14. The remainder of this report is structured as follows:

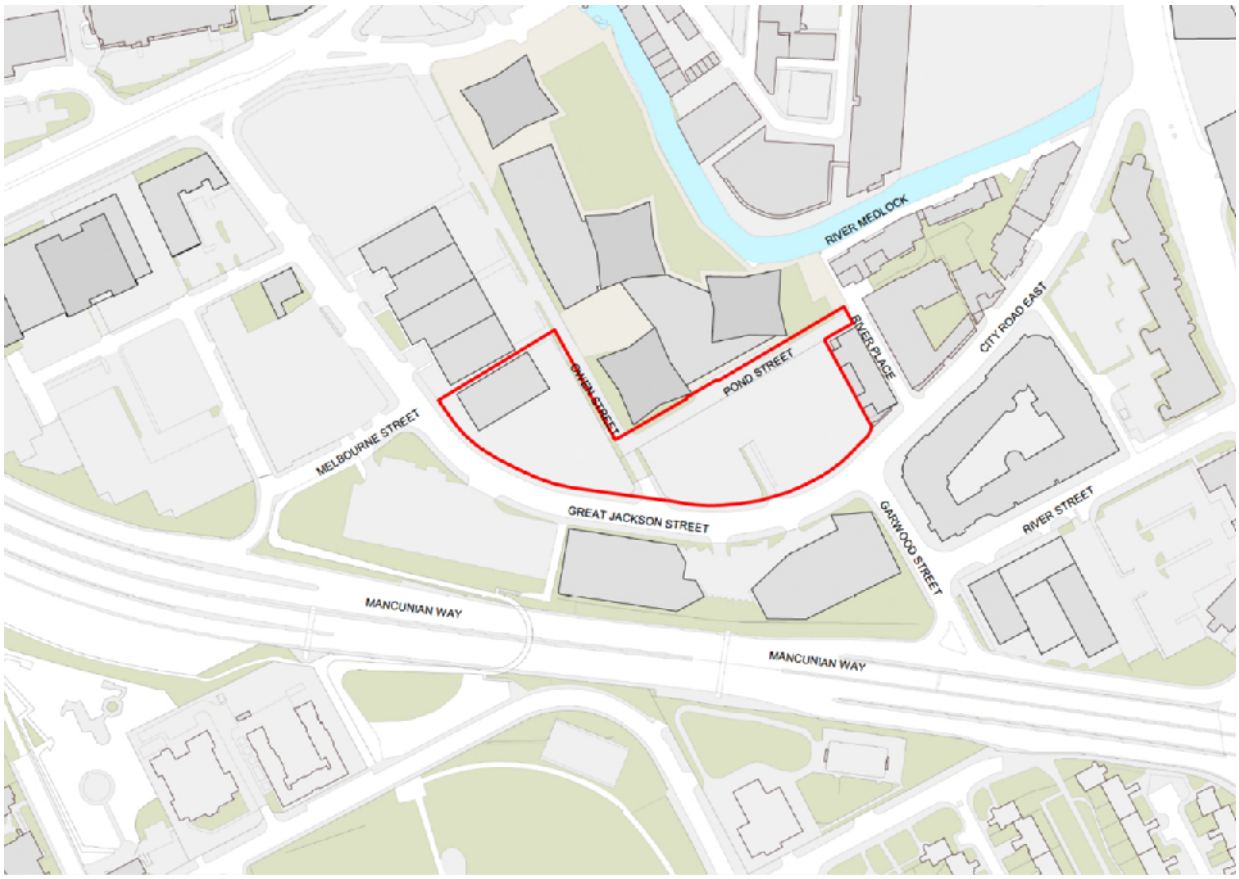
- Section 2: Site Description and the Development Proposals
- Section 3: Scope, Structure, and Consultation
- Section 4: EIA Methodology
- Section 5: Environmental Statement Chapters
- Section 6: Scoping Summary

2. Site Description and Development Proposals

Site Description

2.1. The Site comprises Plot F of the GJS Framework area and measures approximately 0.88 ha. The Site is bounded by Great Jackson Street to the south, Deansgate Square to the north, the Boatmans apartments to the east, and industrial units to the west. The Site Location Plan is shown in Figure 3.1 below:

Figure 2.1: Site Location Plan (Simpson Haugh)



2.2. The Site is currently accessed from Great Jackson Street and via Owen Street. This section of Owen Street is currently not accessible to general traffic. The Site is currently occupied by a low-rise industrial unit and construction compound, with associated car parking, supporting the construction of Deansgate Square. There is no recent planning history of relevance to the Site.

2.3. The Site is itself located within Manchester City Centre and the Regional Centre as defined in MCC's adopted Core Strategy (2012) and is located in a key strategic location in the southern part of the city centre. It is a short walk from the transport hub comprising Deansgate train station and Deansgate-Castlefield tram station.

2.4. The Site is within walking distance of two key transportation hubs at Manchester Oxford Road Station and Piccadilly Station both of which offer local, regional, and national main line rail connections. Both stations also provide direct access to Manchester Airport. The closest Metrolink stop to the Site is circa 250m away at Deansgate-Castlefield which provides services to Manchester Airport and other areas across Greater Manchester, and the regional Metrolink network can also be accessed from Manchester Piccadilly or St Peter's Square Metrolink stops, located 730m and 550m from the Site respectively.

2.5. The Site is also within easy walking distance to employment opportunities and the services and facilities offered by Manchester City Centre and in close proximity to the district of Hulme, just beyond the Mancunian Way (A57(M)) to the south. It is also within easy access of the City's Inner Ring Road which connects with key arterial routes leading to the strategic motorway network.

Site Specific Environmental Designations

Ecology

2.6. The Site is not within, nor does it contain, any ecological designations including sites of specific scientific interest (SSSI), sites of biological importance (SBI) or special protection areas (SPA). The Site lies within a Site of Special Scientific Interest (SSSI) Impact Risk Zone for the Rochdale Canal SSSI and Special Area of Conservation (SAC) and Hollinwood Branch Canal SSSI. The River Irwell Site of Biological Importance (SBI) lies 1.5 kilometres north-west of the Site.

2.7. The Site is secured by metal fencing and has some shrub vegetation and trees present along the Site boundaries. None of these trees are subject to a Tree Preservation Order (TPO). An Ecology Survey is contained in Appendix 3.

Heritage

2.8. The Site itself is not located within a Conservation Area, nor are there Listed Buildings within the red line boundary or immediately adjacent to the Site. However, within a 500m radius there are 21 listed buildings, one Scheduled Ancient Monument and one conservation area, which are listed below:

1. Eastern wall fragment of Roman fort, Scheduled Ancient Monument
2. Church of St George, Grade II*
3. Churchyard Walls, Gate Piers and Gates of St. George's Church, Grade II
4. Former Bridgewater Canal Offices, Grade II
5. Former Congregational Chapel, Grade II
6. Merchant's Warehouse, Grade II
7. Middle Warehouse at Former Castlefield Goods Yard, Grade II
8. 29-41 Liverpool Road, Grade II
9. Lock-Keeper's Cottage at Lock No 91 Next to Gaythorn Tunnel, Grade II
10. Lock No. 91, at east end of Gaythorn Tunnel, Grade II
11. Rochdale Canal Lock No 92 (Dukes Lock) and Castle Street Bridge, Grade II
12. Manchester South Junction and Altrincham Railway Viaduct, Grade II
13. Deansgate Station, Grade II
14. Floodgate on east side of Knott Mill Bridge, Grade II
15. Boundary Stone on Knott Mill Bridge, Grade II
16. Roman Catholic Church of St. Wilfrid, Grade II
17. School House, Grade II
18. G MEX (Manchester Central), Grade II*
19. The Britons Protection Public House, Grade II
20. Nos. 13-17 Albion Street, Grade II
21. Former Cotton Mill on West side of junction with Cambridge Street, Grade II
22. Mill Chimney Stack on West side of junction with Cambridge Street, Grade II
23. Castlefield Conservation Area, located approximately 250m from the Site.

Environmental Conditions

2.9. As with the majority of Manchester City Centre, the Site is located within the Greater Manchester Air Quality Management Area (AQMA).

2.10. It is entirely located within Flood Zone 1 and is therefore at a low probability of flooding. As with the majority of Manchester City Centre, the Site is located within the Conurbation Core Critical Drainage Area as identified from the Manchester, Salford and Trafford Strategic Flood Risk Assessment (2011).

Site Context

2.11. The Site forms Plot F of the GJS Framework; a major part of the Southern Gateway redevelopment initiative situated on a key gateway into Manchester City Centre. The Development Framework was originally endorsed in 2007 and was updated in both 2015 and 2018.

2.12. Most recently, the Framework was updated to reflect the potential for further growth in this part of Manchester City Centre. Following public consultation organised by MCC, the 2018 Framework was endorsed by the Executive Committee in January 2018 and now forms a material consideration in the determination of any planning application within its boundary.

2.13. The vision for the Framework area has remained consistent since the 2015 endorsed version of the document; to 'create a vibrant, safe, secure and sustainable community' The Framework establishes guiding development principles for the regeneration of Great Jackson Street to be characterised by high rise residential development.

2.14. Existing uses within the Framework area include light industrial units, office use, as well as residential and retail uses in developments. A number of the key Framework plots have either been completed or are under construction to deliver new residential-led schemes, which is set out in the list of cumulative developments (Appendix 2) that will form part of the EIA to be submitted in support of the application.

2.15. Of particular note, Deansgate Square, to the north of the Site, beyond Pond Street, comprises four towers that have recently been completed (Planning Ref: 111719/FO/2016/C1). Deansgate Square comprises 1,508 apartments with a mix of 1, 2 and 3 bedroom apartments across four towers of 62, 50, 44 and 37 storeys (plus a four storey amenity building), with a range of retail units at ground floor.

2.16. Crown Street Phase 1 is also currently under construction and will deliver 664 units with a mix of 1, 2 and 3 bedroom apartments, as well as townhouses and duplex apartments (Planning Permission Ref: 119806/FO/2018). Residential amenity space is provided in each building, as well as a communal terrace and ground floor commercial units including a GP surgery. Victoria Residence, which is the first building at Crown Street Phase 1 to be delivered, recently completed construction in Q4 2020 and delivered 180 residential units in a new 21 storey tower. The 51 storey tall Elizabeth Tower, which is currently under construction, will deliver the remaining 484 units approved as part of this application.

2.17. Crown Street Phase 2 is currently under construction for two new 52 storey residential towers delivering 855 units under planning permission Ref: 126668/FO/2020. It includes a public underground car park, primary school, and a 0.5ha public park. It is proposed for completion in 2024. The first tower of Crown Street Phase 2, the Blade, recently commenced construction and will provide 414 residential apartments. The second tower is scheduled to commence construction in October 2024.

2.18. Planning Permission was also approved in February 2018 on land bounded by Great Jackson Street and to the north west of the Site at Plot E of the GJS Framework area (Planning Ref: 116850/FO/2017). This approved the demolition of existing buildings and the construction of three residential buildings, which range in height of 32, 26 and 18 storeys to deliver 399 residential units,

50 retirement units and offers 675 sq. m of commercial floorspace. At present, the planning permission remains extant, but construction has not commenced.

2.19. South of Great Jackson Street lies Plot G of the Framework. A Planning Application for the development of Plot G was recently submitted to MCC in February 2021 for the development of two 56 storey tall residential buildings comprising 1,037 units and a ground floor commercial unit (Planning Ref: 129273/FO/2021).

2.20. An application was also approved in February for One City Road to the east of the Site and the City South apartments (Ref: 128002/FO/2020), which comprises the demolition of the existing offices and the construction of two new office blocks of 11 and 14 storeys, totalling circa 370,000 sq. ft.

Proposed Development

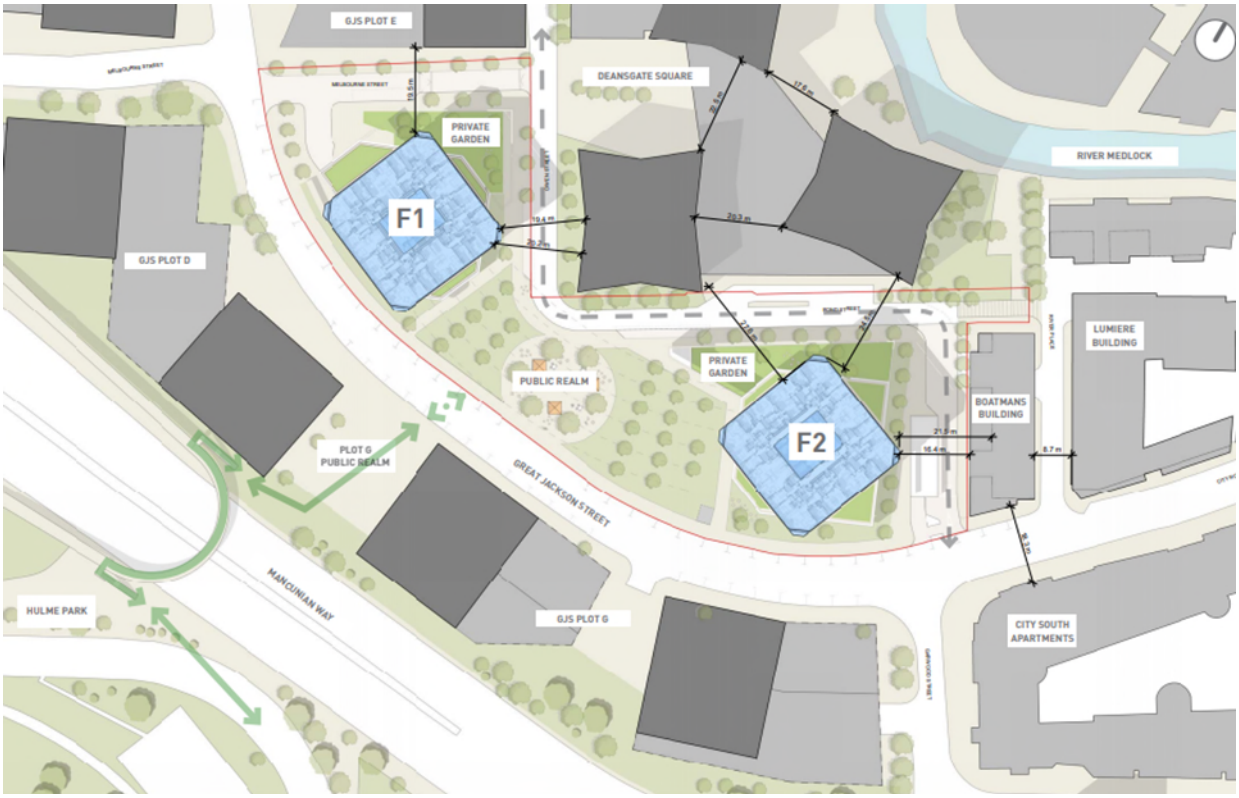
2.21. The Proposed Development is for the demolition of an existing industrial building on the Site and the redevelopment of the Site to provide a high quality residential scheme across two 51 storey towers (identified as F1 and F2 in Figure 2.2), alongside both publicly accessible and private public realm, internal residential amenity uses including a gym, private car parking within two and three tiered multi-storey basements and extensive cycle parking facilities.

2.22. Table 2.1 illustrates the parameters for development. It should be noted that the proposed figures are not fixed and are part of an evolving design. Maximum parameters have been assumed for the purposes of this scoping report as set out below.

Table 2.1: Proposed Uses, Floorspaces and Heights

Use	Parameters for Development
Site Area	0.88 (hectare)
Residential (Use Class C3)	**Total Apartments: 988** Tower F2 – 494 Tower F1 – 494
Height (AOD)	Two Towers of 51 storeys each (including ground and roof)
Cycle Parking	1 space per residential unit. 100% ratio. 988 cycle parking spaces.
Resident Car Parking	296 spaces in total in two separate basement car parks – 30% provision.

Figure 2.2 - Indicative Site layout for the purpose of identifying buildings only



Construction Programme

2.23. The Applicant has provided the following indicative construction programme for delivering the proposals. This assumes the Applicant obtains planning permission during Q4 2021.

- April 2022 – F2 Anticipated Start on Site
- Dec 2023 – Anticipated Start on Site for the demolition of existing industrial building and construction of F1
- April 2026 – F2 estimated completion
- Dec 2027 – F1 estimated completion / project completion

2.24. This is an indicative construction programme and the Applicant highlights that there are multiple risks involved in the development process. It notes that this programme may ultimately be extended in the event delays caused by sustained periods of poor weather, unexpected ground conditions or other abnormals, volatility in economic and housing markets, political uncertainty, and the availability of funding.

3. Scope, Structure and Consultation

Scope

3.1. A scoping exercise has been carried out to determine the likely significant effects on the environment that may arise as a result from the Proposed Development. This process has enabled the team to determine which technical disciplines are pertinent to the proposals and the scope of assessment required for any likely significant effects on the environment to be addressed as part of the EIA process.

3.2. This process has taken account of the proposed demolition activities, relevant planning policy, knowledge of the Site, and the professional opinion of the project team.

3.3. The information presented in the ES will be provided in accordance with Schedule 4 of the EIA Regulations and will include:

- An outline of the main alternatives studied;
- A description of the aspects of the environment likely to be significantly affected by the proposals;
- A description of the likely significant effects of the development on the environment;
- A description of the measures envisaged to prevent, reduce and where possible offset any significant adverse effects on the environment;
- A non-technical summary; and
- An indication of any difficulties encountered by the applicant in compiling the required information.

3.4. The introductory chapters of the ES will provide the following information:

- An introduction to the ES in a legislative and site specific context;
- Description of the Site and proposals;
- Alternatives considered and project design evolution;
- EIA methodology;
- Construction methodology and programme;
- Stakeholder engagement;
- ES structure; and
- Details of the EIA project team.

3.5. The geographical coverage of the EIA will be determined by a number of factors including:

- The physical extent of work;
- The nature of the baseline environment, including the location of sensitive receptors;
- The distance over which effects will be significant; and
- The presence and type of “pathways” along which impacts may be spread.

Environmental Disciplines Scoped Out

3.6. It is considered that the following disciplines will not give rise to likely significant effects on the environment and would therefore not require inclusion in the Environmental Statement. An explanation for each discipline is given below.

Agricultural Circumstances

3.7. The Site is entirely on brownfield land so there **would be no likely significant effects with respect to agriculture.** This discipline can therefore be scoped out of the EIA.

Ecology

3.8. A desktop study and relevant ecological surveys (Phase 1 Habitat Survey, invasive plant species survey and daylight licensed bat survey and assessment) has been undertaken to inform the preparation of an Ecological Survey and Assessment and is contained in Appendix 3.

3.9. The Site comprises hardstanding and colonising vegetation with boundary vegetation. The Site has no statutory or non-statutory designation for nature conservation. Likely significant effects of the Proposed Development on the Sites of Special Scientific Interest (SSSI), located 1.2 to 1.5 kilometres from the Site are avoided.

3.10. The Site contains only common and widespread plant species. None of the habitats present are representative of semi-natural habitat or Priority Habitat.

3.11. Giant Hogweed and Indian Balsam, both invasive plant species listed on Schedule 9 of the Wildlife and Countryside Act 1981 (as amended) were detected at the Site boundary.

3.12. The boundary vegetation provides habitat suitable for use by nesting for birds, otherwise the presence of protected species at the Site is reasonably discounted.

3.13. The assessment concludes that there are no significant ecological constraints on the Proposed Development and an adverse effect on designated sites, protected species and ecologically valuable habitats is avoided. Therefore, **no significant EIA effects are expected with regard to ecology and this discipline is therefore proposed to be scoped out of the ES**. The Ecology Report appended to this Report will be submitted alongside the planning application and details the results of the surveys undertaken at the Site and recommendations in relation to the Proposed Development.

3.14. The Proposed Development provides an opportunity to secure ecological enhancement for wildlife typical of the urban context of the Site.

Arboriculture

3.15. As explained in Paragraph 2.8, the Site is currently a brownfield site occupied by a small number of trees along the boundary. It is understood these trees are not subject to TPOs, nor are they located in a Conservation Area.

3.16. On this basis, it is considered that there will **no significant EIA effects arising in relation to arboriculture and this discipline is therefore proposed to be scoped out of the ES**. An Arboricultural Impact Assessment will be submitted as part of the planning application. A high quality landscaping scheme with tree planting will be developed as part of the Proposed Development.

Television Interference

3.17. The Proposed Development does not include any radio or signal transmitting equipment. In response to the requirements of MCC's validation criteria, a baseline television survey will be prepared by Pager Power and will be submitted in support of the application.

3.18. The adjacent development of Deansgate Square, comprising four towers of 62, 50, 44 and 37 storeys have been developed without significant environmental effects.

3.19. If an adverse effect on TV services occurs following construction of the Site and is attributable to the development, various measures have been identified to mitigate any effects. The mitigation measures are capable of being implemented before the development is occupied.

3.20. It is not anticipated that there will be significant EIA impacts on telecommunications in the area as a result of the Proposed Development; therefore, Telecommunications is proposed be scoped out of the ES. A TV reception Survey will be prepared and submitted as part of the planning application.

Aviation

3.21. From professional experience of similar scale developments nearby, PagerPower have confirmed that the Proposed Development would not give rise to aviation conflicts and appropriate mitigation can be put in place to reduce any potentially significant effects to non-significant levels. This has been achieved on the adjacent Deansgate Square development, which includes taller buildings than the two 51 storey buildings proposed in this case.

3.22. Whilst the Proposed Development does exceed the 90m AOD aviation safeguarding threshold that requires NATs to be consulted, the scale and location are commensurate with proposals on neighbouring sites, where no significant effects on aviation were identified. Within this context, it is expected that the proposals will not give rise to significant EIA effects with regard to aviation and is therefore proposed to be scoped out of the ES.

3.23. An Aviation Safety Assessment will be prepared by PagerPower and submitted as part of the application, which will be prepared in consultation with both Manchester Airport Group and National Air Traffic Services (NATS).

Heritage

3.24. This section has been prepared by the project's heritage consultant, Stephen Levrant Heritage Architecture. Due to the proposed height and location of the proposals, there is the potential for the settings of nearby heritage assets (paragraph 3.26) to be indirectly visually impacted, albeit previous planning applications have demonstrated this SRF area to be suitable for tall buildings of a similar height and scale. As the Site includes no heritage assets, there is no potential for any direct (physical) impact upon the built historic environment.

3.25. A standalone Heritage Statement will be prepared to accompany the planning application. This Statement will provide a detailed and robust baseline assessment of the identified designated heritage assets surrounding the Site and assesses their significance. The Heritage Statement will be prepared in general accordance with or with reference to the following legislation, policy and guidance:

- Planning (Listed Buildings & Conservation Areas) Act 1990;
- National Planning Policy Framework (NPPF) Conserving and enhancing the historic environment (2019);
- MCC Core Strategy, 2012;
- Historic England guidance: Conservation Principles Policies and Guidance (2008);
- Historic England's Good Practice Advice Note 2: Managing Significance in Decision-Taking in the Historic Environment (2015);
- Historic England's Good Practice Advice Note 3: The Setting of Heritage Assets (2017);
- Historic England's Advice Note 4: Tall Buildings (2015);

- Historic England's Advice Note 12: Statements of Heritage Significance (2019); and

3.26. The Heritage Statement will cover potential impacts to the following sensitive receptors including:

- The settings of individual identified Heritage Assets (through indirect visual impact).
- It is considered that for the purpose of assessing the potential impact of the Proposed Development upon the settings of any designated heritage assets, a 500m search area is robust. The study area has been identified utilising professional experience and having regard to the presence of the development within the townscape and character of the area. Within the 500m radius there are 21 listed buildings, one Scheduled Ancient Monument and one conservation area, which are listed below:

    1. Eastern wall fragment of Roman fort, Scheduled Ancient Monument;
    2. Church of St George, Grade II*;
    3. Churchyard Walls, Gate Piers and Gates of St. George's Church, Grade II;
    4. Former Bridgewater Canal Offices, Grade II;
    5. Former Congregational Chapel, Grade II;
    6. Merchant's Warehouse, Grade II;
    7. Middle Warehouse at Former Castlefield Goods Yard, Grade II;
    8. 29-41 Liverpool Road, Grade II;
    9. Lock-Keeper's Cottage at Lock No 91 Next to Gaythorn Tunnel, Grade II;
    10. Lock No. 91, at east end of Gaythorn Tunnel, Grade II;
    11. Rochdale Canal Lock No 92 (Dukes Lock) and Castle Street Bridge, Grade II;
    12. Manchester South Junction and Altrincham Railway Viaduct, Grade II;
    13. Deansgate Station, Grade II;
    14. Floodgate on east side of Knott Mill Bridge, Grade II;
    15. Boundary Stone on Knott Mill Bridge, Grade II;
    16. Roman Catholic Church of St. Wilfrid, Grade II;
    17. School House, Grade II;
    18. G MEX (Manchester Central), Grade II*;
    19. The Britons Protection Public House, Grade II;
    20. Nos. 13-17 Albion Street, Grade II;
    21. Former Cotton Mill on West side of junction with Cambridge Street, Grade II;
    22. Mill Chimney Stack on West side of junction with Cambridge Street, Grade II; and
    23. Castlefield Conservation Area, located approximately 250m from the Site.

3.27. The settings of any additional heritage assets, whether designated or non-designated, which have the potential to be affected by the Proposed Development, are to be incorporated into the impact assessment where necessary. It should be noted that MCC have not adopted a local list identifying non-designated heritage assets.

3.28. The Heritage Statement will draw upon site survey work, map regression analysis, and desk-based research to establish the baseline. This assessment will allow for 8 key heritage viewpoints (to be agreed with the LPA) to be tested with the Proposed Development, in order to assess the potential visual impact. The relevant heritage views to be assessed comprise views 1, 4, 6, 12, 13, 14, 15, 19 and 20 as shown in Appendix 5 and 6.

3.29. Potential impacts associated with construction and operation phases of the Proposed Development will be indirect temporary visual impact and indirect permanent visual impact, respectively. However, due to the recent completion of the first phases of the GJS Framework which has introduced a number of high-rise towers to the immediate north and west of the Site forming the Deansgate Square residential towers and the Crown Street development, the immediate environs surrounding the Site are now largely characterised by buildings of considerable height and scale, and therefore the overall magnitude of change / impact upon the settings of designated heritage assets will be negligible at most.

3.30. It should be noted that the Heritage Statements submitted as part of previous applications for the Deansgate Square development immediately north of the Site (PP Ref: 111719/FO/2016/C1) and Crown Street development directly adjacent to the Plot F site (PP Ref: 119806/FO/2018), demonstrated there would be no impact upon any identified designated heritage assets. Whilst each Proposed Development must be evaluated individually, the Site is located within an area already characterised by tall buildings of considerable height and scale.

3.31. As such, the Proposed Development would, at most, result in limited instances of negligible adverse impact. It is therefore considered that the Proposed Development **would not be likely to incur any significant EIA effects on the historic built environment and it is proposed for the assessment to be scoped out of the ES.**

3.32. A stand-alone Heritage Statement considering the impact of the Proposed Development will be submitted as part of the planning application.

Archaeology

3.33. This section has been prepared by the project's archaeology consultant, Salford Archaeology. A Desktop Archaeological Assessment has been prepared by Salford Archaeology and is contained in Appendix 7.

3.34. The Assessment found that the Site lies adjacent to an area of known Roman activity associated with the road linking the Roman fort at Castlefield with the Roman fort at Chester. The Site lies a short distance to the east of the projected course of this NE/SW aligned road. The precise fording point of this road across the River Medlock is uncertain, however recent archaeological excavations in the vicinity of the Site indicates that temples and mausolea probably lined this Roman road as it dropped down to the ford. Pending the extent of disturbance caused by intensive development during the nineteenth century, the Site has the potential to contain buried archaeological remains deriving from the Roman period.

3.35. The character of Hulme was transformed from an agricultural landscape after the late-eighteenth century by the rapid expansion of Manchester. Late eighteenth-century maps indicate that the proposed development site was bounded by Mr Jackson's farm to the west and Knott Mill Dye Works to the north during this period. During the nineteenth century, rows of workers' houses were constructed within the proposed development site, map evidence suggesting that these dwelling ranged in size from back-to-backs to large terraced houses. Evidence from all of these post-medieval and Industrial period activities within the proposed development site may survive in the form of buried archaeological remains, with any Roman remains potentially surviving at a greater depth.

3.36. Ground-breaking and earth-moving works associated with the proposed development are likely to remove any buried archaeological remains that do survive within the site. Therefore, it may be anticipated that archaeological investigation via a programme of archaeological trenching and an archaeological strip, map and record evaluation may be required to establish the presence or absence of buried archaeological remains and, if present, their extent and significance.

3.37. Should significant archaeological remains be encountered during the archaeologicalevaluation, further excavation may be required to offset the harm of the development to the buried archaeological resource, in line with the guidance provided by the National Planning Policy Framework. The scope and extent of any such further investigation will be determined by the Greater Manchester Archaeological Advisory Service (GMAAS), in their capacity as archaeological advisor to Manchester City Council.

3.38. Following this review of the baseline conditions, it is concluded that the impact of this development **is unlikely to have a significant EIA effect on archaeological remains and it is proposed to be scoped out of the ES.**

Water Resources, Flood Risk, and Drainage

3.39. This section has been prepared by the project's water resources consultant, Curtins.

3.40. The Flood Risk Assessment scope will be undertaken in accordance with NPPF which provides technical guidance on how flood risk should be assessed during the planning and development process. The intention is to ensure that development-planning decisions are made in a manner that delivers sustainable development in terms of current and future flood-risk.

3.41. The scope of the Flood Risk Assessment and mitigation measures will be agreed with the Lead Local Flood Authority. Mitigation measures with suitable construction techniques and environmental best practice will be incorporated. The Site is considered brownfield, and therefore the impact of climate change as a result of development would be low risk in comparison to the Site undeveloped.

3.42. As the Proposed Development is considered to be 'major' development by the Town and Country Planning Order 2015, a Drainage Strategy will also be required as part of the Planning Application for the development.

3.43. The Drainage Strategy will consider foul & surface water drainage proposals for the Proposed Development and mitigate any potential risk of flooding determined to be present. The Drainage Strategy will also consider the impacts of climate change and provide the necessary capacity within the drainage system to accommodate the predicted increase in rainfall for the development life span.

3.44. Based on the Site location, the main risk of flooding to the site is likely to be associated with the surface water run-off to and from the Site. This will be addressed by a robust drainage strategy and recommendations for the general level's strategy within the FRA and Drainage Strategy Report.

3.45. As no significant EIA effects are anticipated, a separate Flood Risk, Drainage and Water Resources chapter is not considered necessary, and any mitigation will be presented within the Flood Risk Assessment and Drainage Strategy to be submitted with the application.

Ground Conditions

3.46. This section has been prepared by the project's ground conditions consultant, Coffey.

3.47. A Phase 1 Desk Study have been completed at the Site by Coffey and the findings are summarised below. The Desk Study ground conditions report has been submitted within Appendix 8 to this EIA Scoping Report.

3.48. Ordnance Survey (OS) mapping indicates a number of buildings present onsite from 1848 which are indicated to be residential terrace buildings. By 1948-50 some of the residential terrace buildings appear to have been demolished on Plot F1 only. The Site appears to have been reconfigured in the period 1960-73 with the remaining residential terraces on Plots F1 an F2 removed from within the Site boundary. By 1992 a building is indicated within the Plot F1 boundaries and remains on site. Aerial photography indicates that Plot F2 was used for car parking from 2000.

3.49. Published geological mapping and ground investigation works undertaken an adjacent site suggest a sequence of Made Ground overlying Glaciofluvial Deposits, Glacial Till, and bedrock of the Chester Formation Sandstone. No faults are shown to cross the site.

3.50. A Coal Mining report for the Site indicates that deep, shallow, or opencast coal mining have not occurred within the site area. Hence the site is not indicated to be at risk from ground movements associated with coal or other forms of mineral extraction.

3.51. The Glaciofluvial Deposits are classified as a Secondary (A) Aquifer whilst the underlying Chester Formation is classified as a Principal Aquifer.

3.52. The River Medlock is located 100m north of the Site's northern boundary, which is connected to the Bridgewater Canal / Rochdale Canal to the north. Both these features are hydraulically connected to the River Irwell, located about 500m further north. The Bridgewater Canal and Castlefield basin are located approximately 300m north of the Site.

3.53. There appears to have been relatively limited potentially contaminative historical uses on and close to the Site.

Anticipated Ground Model

3.54. Based on the proposed finished ground level of 32.2mAOD and assuming about 3.5m per basement level, the anticipated formation levels for the 2-storey F2 basement and 3-storey F1 basement are approximately 25.2mAOD and 21.7mAOD, respectively.

3.55. Based on available ground investigation data, the formation levels of the towers will be sited within the weathered and intact Sherwood sandstone. For the purpose of preliminary foundation assessment, it is anticipated that basement formation level will be within the weathered and intact Sherwood Sandstone

3.56. Three exploratory boreholes (BH23 – 25) from the previous GeoAssist ground investigation report for the immediately adjacent Deansgate Square project lie within the boundary of Plots F1 & F2. Based on the information from these boreholes, plus the preliminary logs from BH01 of the site-specific ground investigation, the lithologies presented in Table 3.1 can be expected.

Table 3.1: Expected lithologies beneath the Site

Stratum	Depth to Base (m bgl)		Anticipated Thickness (m)	
	Min.	Max.	Min.	Max.
Made Ground	0.7	3.2	0.7	3.2
Glacial Till (Granular)	2.2	2.2	1.5	1.5
Glacial Till (Cohesive)	5.4	6.7	2.4	6.4
Weathered Sherwood Sandstone	7	8.7	1.1	2
Sherwood Sandstone	not known	not known	not known	not known

3.57. Groundwater monitoring from the adjacent Deansgate Square project indicates that groundwater is anticipated within the Sherwood Sandstone at a level between 24.7mAOD to 23.3mAOD (approximately 8.0 to 9.4mbgl). Noting these anticipated groundwater levels compared to likely formation levels for the basements (25.2mAOD and 21.7mAOD for Towers F2 and F1, respectively) there is the possibility that dewatering may be required for Tower F1.

Conclusions

3.58. In respect of contaminated land, a Phase 1 Desk Study has been completed. Intrusive investigations have been undertaken and a Phase 2 report will be prepared. This will include an assessment of potential risks associated with contamination of the ground and, where appropriate, provide recommendations for remediation. This will be submitted as part of the planning application.

3.59. However, given the nature of the development and our current understanding of ground conditions, no potentially significant on-site sources were identified, and the majority of Made Ground at the Site will be removed during redevelopment. Any material imported to Site will be verified in accordance with a remediation strategy.

3.60. With reference to the information above, the development is **not anticipated to result in a potentially significant EIA effect to ground conditions and thus Ground Conditions can be scoped-out of the ES.**

Summary of Assessment Scope

3.61. Table 3.2 provides a summary of the scoping exercise undertaken and what disciplines will be considered within the ES. It also identifies what supplementary technical reports will be prepared and submitted as standalone documents in support of the application.

Table 3.2: Environmental Statement Scoping Summary

	ES Chapter	Non EIA Assessment	Consultant
Air Quality	✓	×	Ensafe
Agricultural Circumstances	×	×	N/A
Archaeology	×	✓	Salford Archaeology
Daylight, Sunlight, and Overshadowing	✓	×	GIA
Ecology and Biodiversity	×	✓	ERAP
Arboriculture	×	✓	Godwins
Television Interference	×	✓	PagerPower
Ground Conditions	×	✓	Coffey
Aviation	×	✓	PagerPower
Heritage	×	✓	Stephen Levrant Heritage Architecture
Noise & Vibration	✓	×	Matt Fisher Acoustics
Socio-Economic Issues	✓	×	Ekosgen
Human Health	✓	×	Deloitte have prepared the scoping input on the basis that a consultant is to be appointed for the ES Chapter.

	ES Chapter	Non EIA Assessment	Consultant
Climate Change	✓	×	WSP
Townscape & Visual Impact	✓	×	Chris Burnett Associates
Traffic and Transport	✓	×	Curtins
Water Resources, Drainage & Flood Risk	×	✓	Curtins
Wind Microclimate	✓	×	WSP
Solar Glare	✓	×	GIA

Phasing and EIA scenarios

3.62. The Proposed Development will be phased in order to facilitate delivery process of each part of the scheme.

3.63. Within this context, it is necessary to consider the extent to which each technical chapter should assess a number of possible scenarios that could arise, due to the proposed phasing of the development. At present, the sequence of phased delivery is proposed as follows:

- Phase A – Tower F2, plus F2 basement car parking, landscaping and access.
- Phase B – Tower F1, plus F1 basement car parking, landscaping and access.

3.64. Please refer to Appendix 9 which includes an indicative phasing plan. This is under review and a final version will be submitted with the Planning Application.

3.65. On this basis, the possible EIA scenarios for consideration are:

- Scenario 1: Existing baseline
- Scenario 2: Phase A;
- Scenario 3: Scenario 2 + Committed Developments;
- Scenario 4: Phases A and B; and
- Scenario 5: Scenario 4 + Committed Developments.

3.66. Aside from Scenario 1, which all assessments will consider, the need to assess each scenario, in order to understand and consider potential significant environmental effects, has been carefully reviewed by each of the technical specialist EIA consultants in preparing their scoping input within Chapter 5. A summary table explaining their conclusions on the scenarios to be tested is also included within Chapter 6.

Cumulative Effects Assessment

3.67. An assessment of Committed Developments including those with recent planning permissions and those expected to come forward in the near future has been undertaken. There is no agreed / standard threshold for how far the assessment should go; therefore a professional judgement has been taken regarding which schemes to highlight, taking into consideration to high density city centre location – a radius of 500m has therefore been used.

3.68. A table detailing the committed developments and a map illustrating the location of these developments can be found at Appendix 2. The Applicant seeks the agreement from the Local Authority to the scope of committed developments and invites guidance on any additional schemes not listed.

Consultation

3.69. The following statutory consultees should be consulted by the LPA through the EIA Scoping process:

- Transport for Greater Manchester (TfGM);
- Environment Agency (EA);
- Historic England;
- Natural England;
- Greater Manchester Archaeological Advisory Service (GMAAS);
- Manchester Airport Safeguarding Team;
- National Air Traffic Services (NATS); and
- United Utilities.

3.70. A process of stakeholder consultation has already commenced with regard to the Proposed Development. Members of the project team have met with senior officers from the Local Planning Authority (LPA) to discuss the Proposed Development, including the potential scope of the EIA. The initial design of the Proposed Development has also been presented for independent design review with Places Matter!

3.71. Further meetings will take place with MCC including further consultation with the LPA, Environmental Health, the Local Education Authority, GMP, and with Highways officers. Consultation has also taken place with Historic England.

3.72. Pre-application consultation will take place with local residents, stakeholders, Councillors, adjoining owners and occupiers.

3.73. A Statement of Consultation will be submitted with the application and will provide further detail on consultation undertaken prior to the application being made.

4. EIA Methodology

4.1. The EIA will assess both the demolition, construction and operational phases of the Proposed Development, including the phases of development and different scenarios associated with those phases.

4.2. The ES is anticipated to comprise two volumes, the first of which will set out the findings with respect to each of the environmental disciplines that have been examined as part of the EIA. Volume 2 will include all the supporting documents and technical appendices relating to the chapters. A Non-Technical Summary (NTS) will be produced and form a standalone document.

4.3. Each ES chapter will follow the headings set out below to ensure the final document is transparent, consistent and accessible.

- Introduction;
- Legislation and Policy Context;
- Assessment Methodology and Significance Criteria;
- Baseline Conditions;
- Identification and Evaluation of Key Effects;
- Mitigation Measures;
- Cumulative Effects;
- Residual Effects; and

4.4. Each chapter sub-heading is explained in further detail below.

Introduction

4.5. This section will introduce the assessment discipline and the purpose for which it is being undertaken.

Legislation and Policy Context

4.6. This section will include a summary of national, regional and local policies of relevance to the environmental discipline and assessment. Relevant legislation will be summarised where applicable.

Assessment Methodology and Significance Criteria

4.7. This section will provide an explanation of methods used in undertaking the technical study with reference to published standards, guidelines and best practice. The application of significance criteria will also be discussed.

4.8. It will also outline any difficulties encountered in compiling the required information.

Baseline Conditions

4.9. This will include a description of the environment as it is currently and as it is expected to change given the project were not to proceed (i.e. 'do-nothing' scenario). The method used to obtain this information will be clearly identified. Baseline data will be collected in such a way that the importance of the particular subject area to be affected can be placed in its context and surroundings so that the effects of the proposed changes can be predicted.

Identification and Evaluation of Likely Significant Effects

4.10. This section will identify the likely significant effects on the environment resulting from the Proposed Development.

4.11. The significance of an environmental effect is determined by the interaction of magnitude and sensitivity, whereby the effects can be positive or negative. The criteria to be used in carrying out this process are detailed below.

Prediction of Impact Magnitude

4.12. The methodology for determining the scale or magnitude of change caused by the impact is set out below.

Table 4.1: Methodology for Assessing Magnitude of Change

Magnitude of Change	Criteria for assessing magnitude of change caused by an impact
Major	Total loss or major/substantial alteration to key elements/features of the baseline (pre-development) conditions such that the post development character/composition/attributes will be fundamentally changed.
Moderate	Loss or alteration to one or more key elements/features of the baseline conditions such that post development character/composition/attributes of the baseline will be materially changed.
Minor	A minor shift away from baseline conditions. Change arising from the loss/alteration will be discernible/detectable but not material. The underlying character/composition/attributes of the baseline condition will be similar to the pre-development circumstances/situation.
Negligible	Very little change from baseline conditions. Change barely distinguishable, approximating to a 'no change' situation.

Prediction of Receptor Sensitivity

4.13. The sensitivity of a receptor is based on the relative importance of the receptor using the scale set out below.

Table 4.2: Methodology for Determining Sensitivity

Sensitivity	Examples of receptor
High	The receptor/resource has little ability to absorb change without fundamentally altering its present character, or is of international or national importance.
Moderate	The receptor/resource has moderate capacity to absorb change without significantly altering its present character, or is of high importance.
Low	The receptor/resource is tolerant of change without detriment to its character, is of low or local importance.

Assessment of Effect Significance

4.14. Effect significance will be calculated using the matrix in Table 4.3. This illustrates the interaction between impact magnitude and receptor sensitivity.

Table 4.3: Effect Significance Matrix

Magnitude	Sensitivity		
	High	Moderate	Low
Major	Major Adverse/Beneficial	Major - Moderate Adverse/Beneficial	Moderate - Minor Adverse/Beneficial
Moderate	Major - Moderate Adverse/Beneficial	Moderate – Minor Adverse/Beneficial	Minor Adverse/Beneficial
Minor	Moderate – Minor Adverse/Beneficial	Minor Adverse/Beneficial	Minor - Negligible
Negligible	Negligible	Negligible	Negligible

Mitigation Measures

4.15. Adverse effects will be considered for mitigation and specific mitigation measures put forward, where practicable. Mitigation measures considered may include modification of the project, compensation and the provision of alternative solutions as well as pollution control. The extent of the mitigation measures and how these will be effective will be discussed. Where the effectiveness is uncertain or depends upon assumptions about operating procedures, data will be introduced to justify the acceptance of these assumptions.

4.16. The approach to mitigation will follow best practice guidance, which suggests a hierarchical approach. The UNEP EIA Training Resource Manual (2002) advises that impacts should ideally be:

- Avoided; if not
- Minimised; and/or
- Compensated.

4.17. Three 'types' of mitigation are characterised in IEMA's Special Report – The State of Environmental Impact Assessment Practice in the UK (2011):

- EIA influence at design stage;
- Standard construction practices for minimising effects; and
- Follow-up actions for implementation post-consent.

4.18. Clear details of when and how the mitigation measures were carried out, or will be carried out, are to be given within the Environmental Statement. When certainty of impact magnitude and/or effectiveness of mitigation over time exists, monitoring programmes will be proposed to enable subsequent adjustment of mitigation measures, as necessary.

4.19. The opportunity for enhancement measures will also be considered where appropriate.

Cumulative Effects

4.20. Two types of cumulative effect will be assessed:

- Type 1 - Cumulative effects are the interactions between effects of the demolition and redevelopment works on a single receptor.
- Type 2 - Cumulative effects are those that arise from incremental changes caused by other past, present or reasonably foreseeable actions together with the demolition and redevelopment works.

4.21. The cumulative effects of the Proposed Development and the identified committed developments will be assessed in each chapter to identify Type 2 cumulative effects. A list of known committed developments is set out Appendix 2. The Council are requested to review and comment on this list in their Scoping Opinion.

4.22. Type 2 effects will be set out in an individual chapter within the ES, which will identify the sensitive receptors that are affected by more than one topic area. Mitigation measures set out in each chapter will be set out to confirm the residual effects.

Residual Effects

4.23. The residual effects, i.e. the effects of the Proposed Development assuming implementation of proposed mitigation, will be determined. The residual effects represent the overall likely significant effect of the development on the environment having taken account of practicable/available mitigation measures.

5. Environmental Statement Chapters

5.1. Under each section topic, a summary of the content of the section, the methodology and scope of assessment is given. Where relevant, the assumptions of the assessment are described. Current relevant legislation or recognised guidance for individual assessments will be adhered to, where necessary.

5.2. The following Chapters are considered in turn:

- Air Quality;
- Climate Change;
- Daylight, Sunlight and Overshadowing;
- Solar Glare;
- Human Health
- Noise and Vibration
- Townscape and Visual Impact
- Traffic and Transport;
- Wind Microclimate; and
- Socio-economic.

Air Quality

Introduction

5.3. Ensafe Consultants have been commissioned to provide support for an Environment Impact Assessment Air Quality Chapter in support of the Proposed Development at Plot F Great Jackson Street, Manchester.

5.4. The Proposed Development includes the erection of two 51 storey residential towers of 988 residential units. It is currently understood that no retail provision is proposed as part of this Proposed Development.

Baseline Conditions

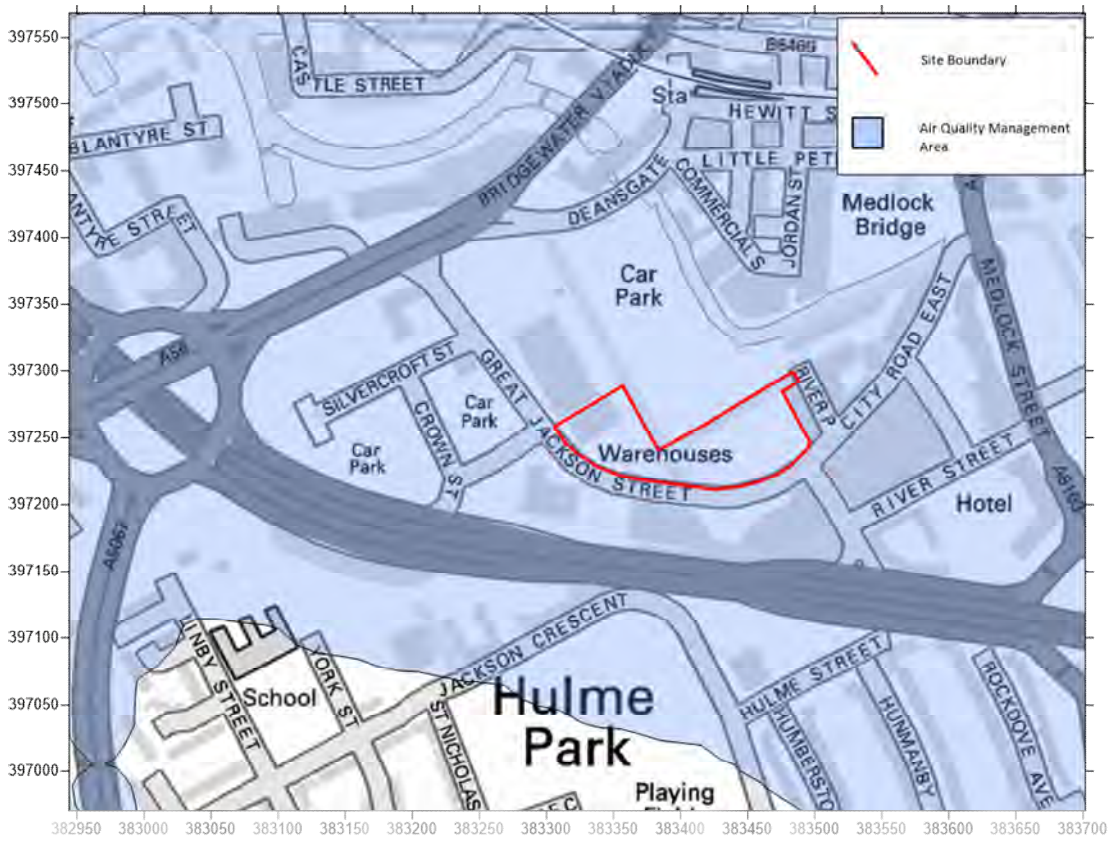
5.5. Existing air quality conditions in the vicinity of the Site have been reviewed and detailed below.

5.6. As required by the Environment Act (1995), the Greater Manchester Combined Authority (GMCA), on behalf of MCC, has undertaken review and assessment of air quality within the city. This process has indicated that annual mean Nitrogen Dioxide (NO_2) concentrations exceed the relevant Air Quality Objectives (AQO) at specific areas throughout the city. As such, an Air Quality Management Area (AQMA) has been declared.

5.7. The Site is located within the GMCA AQMA. As such, there is the potential for future residents to be exposed to elevated pollutant concentrations as a result of the local road network, as well as to cause

impacts within the AQMA and surrounding area as a result of emission generated by the Proposed Development.

Figure 5.1: Location of the Site within the AQMA



5.8. MCC has concluded that concentrations of all other pollutants considered within the Air Quality Strategy (AQS) are currently below the relevant AQOs and as such no further AQMAs have been designated.

Air Quality Monitoring

5.9. Monitoring of pollutant concentrations is undertaken by MCC using continuous and periodic methods throughout their area of administration. A review of the most recent data indicated that there are currently three continuous monitors operated by MCC, with one located within the vicinity of the Proposed Development. Table presents the most recent monitoring results. Exceedances of the annual mean AQO for Nitrogen Dioxide (NO_2) are highlighted in **bold**

Table 5.1: Automatic Monitoring Results

ID	Site Name	Site Type	NGR		Distance to Site (m)	Annual Mean Concentration (µg/m^3)		
			X	X		2017	2018	2019
MAN1	Manchester Oxford Road	Urban Traffic	384233	397287	1,440	**65.00**	**62.00**	**59.00**

5.10. As shown in Table , the annual mean AQO for NO_2 was exceeded in recent years at the Oxford Street automatic site. Exceedances are likely due to the location adjacent to an arterial road within an

AQMA. It should be noted this monitoring location is classified as a Kerbside site and as such will only be considered further in context of the baseline assessment. This has been previously agreed by MCC and accords with LAQM (TG16), which suggests that the inclusion of Kerbside location within the verification procedure may lead to an over-adjustment of modelling at roadside sites. This may then lead to inaccuracies during the modelling of pollutant exposure across the Proposed Development and potential impacts at nearby sensitive receptor locations.

5.11. MCC utilises passive diffusion tubes to monitor NO_2 concentrations throughout the city. A review of the latest diffusion tube monitoring data indicated four locations close to the Proposed Development. Monitoring results from recent years are summarised in Table 5.2. Exceedances of the annual AQO for NO_2 are shown in **bold**.

Table 5.2: MCC Diffusion Tube Monitoring Results

ID	Site Name	Site Type	NGR		Distance to Site (m)	Annual Mean Concentration (µg/m³)		
			X	Y		2017	2018	2019
29A	Oxford Street	Urban Traffic	384114	397512	745	**57.70**	**58.80**	**55.40**
77	Hewitt Street	Urban Centre	383602	397488	340	38.81	**40.99**	**43.66**
82-84	Oxford Road	Urban Traffic	384233	397287	796	**56.70**	**51.90**	**51.60**
97	Chester Road	Urban Traffic	382886	397215	558	-	-	32.29

5.12. Salford City Council (SCC) also undertake Air Quality monitoring within 1.5km of the Site. A review of the latest data indicated two representative diffusion tube monitoring locations. Recent results from these locations are shown in Table 5.3, with exceedances of the relevant AQO are highlighted in **bold**.

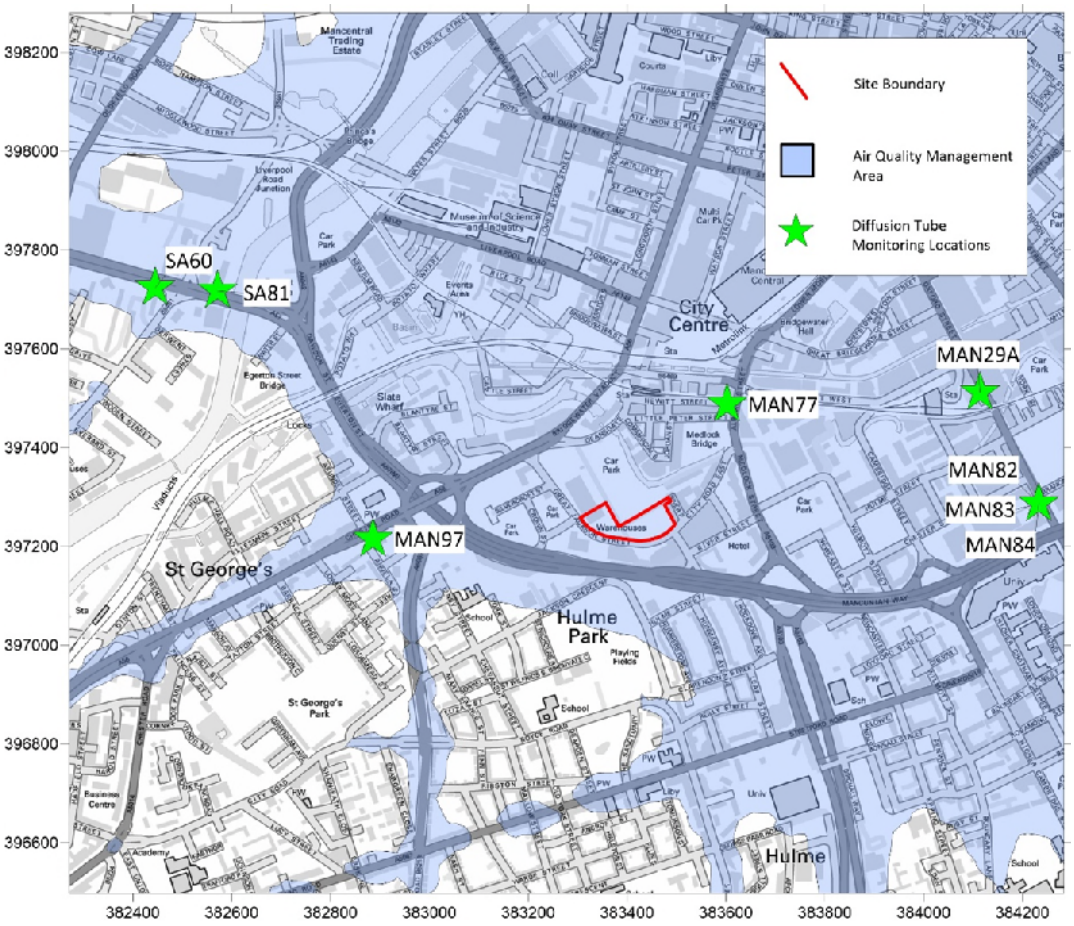
Table 5.3: Salford City Council Diffusion Tube Monitoring Results

ID	Site Name	Site Type	NGR		Distance to Site (m)	Annual Mean Concentration (µg/m³)		
			X	Y		2017	2018	2019
SA60	SA60 Regent Road	Urban Traffic	382445	397724	1,134	**40.70**	**40.23**	36.66
SA81	SA81 Regent Road	Roadside	382571	397718	1,021	-	-	**46.41**

5.13. As shown in Table 5.2 and Table 5.3 there were exceedances of the annual mean AQO for NO_2 at all reference diffusion tubes operated by MCC. Exceedances are likely due to their kerbside and roadside locations within an AQMA. Conversely, no diffusion tubes operated by SCC indicated exceedance of the annual mean AQO.

5.14. The closest passive diffusion tube monitor is located at Hewitt Street (77), approximately 500m north-east of the Site. This location is classified as a roadside site and situated in similar distance to arterial roads as the Proposed Development. Subsequently, this location will provide a suitable representation for baseline concentration across the proposed side as well as during the model verification process.

Figure 5.2: Diffusion Tube Monitoring locations



5.15. The Regent Road monitoring location (SA60 and SA81) are situated in similar distance to arterial roads as the Proposed Development. These locations will provide suitable representation to sensitive receptor locations and similarly will be considered further within the model verification process.

5.16. A review of recent monitoring results within the vicinity of the Site indicated that annual mean NO_2 concentrations adjacent to the Site may be marginal to or exceed the AQO. Subsequently, detailed modelling will be required in order to assess the potential risk of on-site exposure to elevated pollutant concentration. However, given the increased set back distances from arterial road network it is expect pollutant concentrations across the Site will be below the monitored values referenced in Table 5.2 and Table 5.3

5.17. It should be noted that similar to the Oxford Road analyser, both Oxford Street (29A) and Oxford Road (82) are of kerbside classification and will only be considered further in context of the baseline assessment.

5.18. Monitoring of particulate matter with an aerodynamic diameter of less than 10µm (PM_{10}) and 2.5µm ($PM_{2.5}$) is not currently undertaken by MCC or SCC in the vicinity of the Site.

Background Pollutant Concentrations

5.19. Predictions of background pollutant concentrations on a 1km by 1km grid basis have been produced by DEFRA for the entire of the UK to assist Local Authorities (LAs) in their Review and Assessment of air quality. The Site is located in grid square NGR: 383500, 397500. Data for this location was downloaded from the DEFRA website for the purpose of this assessment and is summarised in Table ; for the most recent baseline year (2019) to accord with available monitoring data.

Table 5.4: Predicted Background Pollutant Concentrations

Pollutant	Predicted Background Concentration (μg/m^3)	
	2019	2027
NO_2	39.95	28.41
NO_x	26.07	19.55
PM_{10}	13.47	12.55
$PM_{2.5}$	8.69	8.03

5.20. As shown in Table , 2019 background concentrations do not exceed the relevant AQOs. Comparison with the monitoring results provided in Table 5.2 and Table 5.3 indicate the influence of road vehicle exhaust emissions have upon roadside pollutant concentrations.

5.21. To provide a conservative approach 2019 background concentrations will be used to inform future year background scenarios. Background data for 2027 has only been presented for completeness and represents the estimated project completion year.

Method of Assessment

Legislation, Guidance and Policy

5.22. The following legislation, guidance and policy documents will be considered and adhered to during the preparation of the Air Quality Chapter:

- European Union (EU) Directive 2008/50/EC;
- NPPF, updated on 19th February 2019);
- The National Planning Practice Guidance (NPPG), chapters produced on 6th March 2014;
- Section 82 of the Environment Act (1995) (Part IV);
- The Air Quality Strategy for England, Scotland, Wales and Northern Ireland, Vol 1 (March 2011)
- The Air Quality Standards (Amendment) Regulations (2016);
- MCC Local Development Framework (LDF) Core Strategy – Policies EN16 Air Quality, CC5 Transport and DM1 Design Management;
- Department for Environment, Food and Rural Affairs (DEFRA) guidance Local Air Quality Management Technical Guidance (TG16), 2018; and
- Guidance on the Assessment of Dust from Demolition and Construction, Institute of Air Quality Management (IAQM), v1.1, June 2016; and
- Land-Use Planning and Development Control: Planning for Air Quality, Environmental Protection EPUK and IAQM, January 2017.

Construction Phase

5.23. During the construction phase of the Proposed Development there is the potential for air quality effects as a result of fugitive dust emissions associated with demolition, earthworks and construction, and track-out activities on the Site. It is proposed to assess these qualitatively in accordance with the IAQM Construction Methodology 2016. The methodology provided within this guidance document is widely regarded as an example of best practice and results are accepted throughout the UK.

5.24. Road exhaust emissions from construction phase vehicles will also be assessed to determine human health impacts due to increased NO_x, PM_{10} and $PM_{2.5}$ concentrations. The assessment threshold specified in the EPUK and IAQM guidance, as provided below, will be used to determine the requirement for a full assessment:

A change of HDV flows of more than 25 AADT within or adjacent to an AQMA

5.25. Should the above criteria not be met, the EPUK and IAQM document considers road vehicle exhaust impacts associated with the construction phase of the Proposed Development will be not significant and no further assessment is required. Conversely, should the criterion be exceeded it may be deemed necessary that further assessment is required.

5.26. This will be undertaken using ADMS Roads dispersion modelling software. Pollutant concentrations will be predicted at sensitive discrete receptors along the roads likely to be used by construction traffic. impacts will then be determined in accordance with the EPUK and IAQM significance criteria as well as professional judgement.

Operation Phase

5.27. The operational phase of the Proposed Development is likely to introduce new residents to poor air quality, as predicted from the review of baseline Air Quality conditions. Additionally, traffic generated by the proposals may cause increases in pollutant concentrations as a result of additional road vehicle exhaust emissions.

5.28. Potential air quality effects across the Proposed Development and at sensitive receptors within close proximity to the Site will therefore be assessed on a quantitative basis. This will be undertaken by calculating NO_2, PM_{10} and $PM_{2.5}$ levels across the Proposed Development and at sensitive locations with and without the development using the ADMS-Roads dispersion modelling software. It should be noted that the ADMS modelling software is widely accepted within the UK by the Local Authorities, the Environment Agency and DEFRA.

5.29. The assessment of operational phase impacts will consider the following development scenarios:

- Scenario 1: Existing baseline, for verification purposes against latest 2019 MCC and SCC ratified Air Quality Monitoring data;
- Scenario 4: Anticipated Do something 2027 Opening Year baseline plus, predicted traffic flows associated with Phase A and B, including basement multi storey car park (for both towers), highways, public realm; inclusive of committed developments listed in Appendix 2.
- Scenario 5: Scenario 4 plus relevant cumulative developments, as included within Appendix 2,

5.30. All assessment scenarios will be prepared following receipt traffic information from the Transport Consultant. This will include baseline, development, and cumulative flows.

5.31. Please note the future year scenarios (Scenarios 4 & 5) will be considered in conjunction with the anticipated 2027 baseline opening year conditions. The future baseline represents anticipated traffic flows for 2027, including committed development flows. This scenario does not included development generated flows in order to make a judgement of potential impacts on existing conditions as a result of the proposed development.

5.32. With regards to associated Air Quality impacts, the worst-case scenario presented above provides an assessment of maximum anticipated development traffic generation and thus a worse-case scenario will be assessed.

5.33. The Proposed Development includes the provision of basement level car parking which is to be served by ventilation units in order to provide suitable extraction of road vehicle pollutants from the internal structure. Emissions extracted and released by ventilation units may have the potential to

increase pollutant concentration in the vicinity of the proposed residential locations. The impacts associated with the ventilation systems will be considered further throughout the preparation of the chapter.

5.34. Similar to construction phase road traffic impacts, the EPUK and IAQM guidance will be employed. The guidance sets out indicative criteria to proceed to an Air Quality Assessment which in relation to underground car park extraction systems states where:

The ventilation extract for the car park will be within 20 m of a relevant receptor, further assessment is required.

5.35. Should there be sensitive receptor locations within 20m of the proposed ventilation extracts further assessment is required to quantify potential impacts. Conversely, if the proposed ventilation extracts are located greater than 20m from the nearest sensitive receptor locations then road vehicle exhaust impacts are deemed not significant and no further assessment is required. This will be confirmed following receipt of detailed plans and once the ventilation strategy for the car park has been finalised.

Assessing the Significance of Effects

5.36. The significance of potential effects will be determined based on the predicted magnitude of change in pollutant concentrations and the criteria provided within the Environmental Protection UK (EPUK) and IAQM guidance document "Land-Use Planning & Development Control: Planning for Air Quality (2017).

5.37. Table 2 presents the AQOs detailed within the relevant legislation, which will be considered further during the Chapter to inform on-site exposure risk as well as the significance of associated development impacts.

Table 2.5 Air Quality Objectives

Pollutant	AQO Concentration (µg/m^3)	Averaging Period
NO_2	40	Annual mean
	200	1-hour mean; not to be exceeded more than 18 times a year
PM_{10}	40	Annual mean
	50	24-hour mean; not to be exceeded more than 35 times a year
$PM_{2.5}$	25	Annual mean

5.38. The sensitivity impact significance of each receptor will be defined in accordance with the criteria shown in Table . These are based upon the guidance provided within the EPUK and IAQM Guidance.

Table 5.6 Operational Traffic Exhaust Emissions – Assessment of Impact

Long Term Average Concentration	% Change in Concentration Relative to the AQO			
	1	2-5	6-10	>10
75% or less of AQO	Negligible	Negligible	Minor	Moderate
76% - 94% of AQO	Negligible	Minor	Moderate	Moderate
95 - 102% of AQO	Minor	Moderate	Moderate	Major
103 - 109% of AQO	Moderate	Moderate	Major	Major

110% or more of AQO	Moderate	Major	Major	Major

5.39. Following the prediction of impacts at discrete receptor locations utilising the criteria in Table 5.5, the EPUK and IAQM document states that this framework is to be used as a starting point to make a judgement on the significance of impacts.

Cumulative Assessment

5.40. The Air Quality chapter will consider potential cumulative effects of the Proposed Development and other major developments in the area. The proposed school at Crown Street Phase 2 will be included as cumulative. The scope of the projects to be included in the cumulative assessment will be governed by the project Transport Assessment (TA). Only those developments that would have a material impact in the study area will be included in the assessment. These committed developments are outlined in Appendix 2.

5.41. Dependant on the outcomes of the assessment, there may be a requirement to produce a mitigation strategy in order to reduce potential effects to an acceptable level. This would be based on best practice guidance and an assessment of residual effects following the implementation of any suggested control methods would be provided.

Summary of Assessment Scope

5.42. Table 5.3 provides a summary of potential effects which would be assessed within the Air Quality ES chapter.

5.43. Pollutants that are listed in the Air Quality Standards Regulations 2010 (amended in 2016) other than NO_x, NO_2, PM_{10} and $PM_{2.5}$ have been scoped out of the Air Quality chapter.

Table 5.3: Summary of Assessment Scope

Receptor	Impact	Potential Effect	Scoped In / Out
Existing Residential and Educational Use	Construction Phase Fugitive Dust Emissions	Reduced levels of amenity, annoyance due to dust soiling and human health impacts.	Scoped In
Existing Residential and Educational Use	Construction Phase Road Vehicle Traffic Exhaust Emissions	Human health impacts on existing sensitive locations within the AQMA and surrounding area	Scoped In
Existing Residential and Educational Use	Operational Phase Road Vehicle Traffic Exhaust Emissions	Human health impacts on existing sensitive locations within the AQMA and surrounding area	Scoped In
Proposed Residential and Educational Use	Operational Road Vehicle Traffic Exhaust Emissions	Introduction of new residents and school children and staff into an AQMA, exposure to elevated NO_2, PM_{10} and $PM_{2.5}$ and associated health impacts	Scoped In
Proposed and Existing Residential Educational Use	Operational Road Vehicle Traffic Exhaust Emissions associated with basement multi-storey car park	Further exposure to elevated NO_2, PM_{10} and $PM_{2.5}$.	Scoped In

Climate Change

Introduction

5.44. This section of the EIA Scoping Report presents the methods and scope of the assessment that will examine the Proposed Development's impact on, and vulnerability to climate change. It has been prepared by the chapter authors, WSP.

5.45. The requirement to consider a project's impact on and vulnerability to climate change results from the 2014 amendment to the EIA Directive (2014/52). The Directive has been fully transposed into UK law in the EIA Regulations. The Directive requires: *"A description of the likely significant effects of the project on climate (for example the nature and magnitude of greenhouse gas emissions) and the vulnerability of the project to climate change."*

5.46. An assessment of the vulnerability of the Proposed Development to climate change has not been included within this chapter because the Proposed Development's resilience and adaptation to climate change has been considered within the design and is proposed to be assessed within the Wind Microclimate chapter, the Water Resources Chapter, and the other technical reports submitted with the planning application relating to the sustainability of the proposals including: Environmental Standards and Energy Statement, Ventilation Strategy, Air Quality Assessment, TA and Travel Plan (TP), and Flood Risk Assessment and Drainage Strategy.

5.47. As such this chapter considers the impacts and effects of the Proposed Development in terms the contribution of the Proposed Development to climate change: the Greenhouse Gas ('GHG') emissions assessment.

5.48. With regard to relevant Committed Developments, will consider the cumulative effect of all GHG that contribute toward climate change, and therefore the assessment of the GHGs attributed to the Proposed Development implicitly assesses the cumulative effect of GHG emissions based on national targets. With this in mind, no Committed Developments identified within Appendix 2 are specifically relevant.

Baseline Conditions

5.49. In the baseline scenario, GHG emissions occur constantly and widely as a result of human and natural activity including energy consumption (fuel, power), industrial processes, land use and land use change.

5.50. The GHG assessment will only consider instances in which the Proposed Development results in additional or avoided emissions in comparison to the baseline scenario and its assumed evolution. The baseline scenario is the worst case scenario and is assumed to be the same for all EIA scenarios.

5.51. There has been no previous assessment undertaken to date in relation to GHG emissions and the Proposed Development to inform the baseline conditions.

Existing Baseline

5.52. The current land use of the Site is a car park, industrial unit and temporary portacabins, which are associated with the construction of an adjacent development. The operation and management of these will likely require some components and bulk materials for minor maintenance works and repairs.

5.53. These materials will have embodied emissions associated with them, and the transport emission to and from the Site. The associated energy and embodied baseline emissions are expected to be larger for the operation of the industrial unit than the car park and portacabins, however emissions are anticipated to be small, and as such do not merit quantification. The current use of the Site is not likely to generate any significant traffic flows or emissions. As a result, it is considered that there are negligible transport, demolition and building GHG emissions associated with the Site.

Future Baseline

5.54. The future baseline scenario for traffic emissions will be determined by applying TEMPro growth factors to baseline traffic data. Regarding operational emissions for embodied carbon and building emissions, the amount of coal in the UK electricity mix has substantially decreased in recent years and low and zero carbon technologies (including photovoltaic, wind and nuclear energy) have been increasingly used to generate a larger portion of the UK's electricity. This has resulted in a reduction of carbon emissions generated from grid-supplied electricity. As the grid decarbonises, the lower amounts of emissions created through using on-site electricity will result in a lower carbon impact.

5.55. Also, as the UK has committed to legally binding targets relating to becoming net-zero carbon by 2050, that means GHG emissions must be dramatically reduced and any remaining emissions offset, neutralising environmental impact from GHG emissions and slowing climate change. In addition, in January 2021 the Government announced the Future Homes standard that proposes no new pure gas boilers should be installed in new homes by 2025, meaning that new homes will be heated solely by electric systems (such as heat pumps) or other alternatives, which will be low in GHG emissions following grid decarbonisation.

Method of Assessment

5.56. The applicable legislative context for the GHG assessment of the Proposed Development comprises:

- Climate Change Act 2008 (2050 Target Amendment) Order 2019[1];
- Planning and Energy Act 2008[2];
- Carbon Budgets, 2016[3]; and
- UK Climate Change Risk Assessment (2017)[4].

5.57. In addition, the Building Regulations (2016)[5] and The Carbon Plan (2011)[6] are also applicable to the GHG assessment for the Proposed Development.

5.58. Baseline Data for the GHG assessment will be sourced from the following locations:

- One Click Software - Embodied Carbon Calculation;
- Energy Statement submitted as a supporting planning document;
- TA submitted as a supporting planning document;
- Department for Business, Energy & Industrial Strategy, 2020 Government GHG Conversion Factors for Company Reporting;
- Department for Business, Energy & Industrial Strategy, 2005 to 2018 UK local and regional CO2 emissions – data tables, 2018; and
- Royal Institute of British Architects (RIBA) 2030 Climate Challenge.

5.59. The assessment would follow the emerging best practice and the Environmental Impact Assessment Guide to: Assessing Greenhouse Gas Emissions and Evaluating their Significance (IEMA)[7]. This guidance advocates a 'good practice' approach where GHG emissions are always considered and reported, but at varying degrees of detail depending on the EIA and the project in question.

5.60. In line with the guidance, this chapter sets out the methodological approach that would be taken to address GHG emissions associated with the Proposed Development. Existing sources of GHG emissions prior to construction and operation of the Proposed Development (i.e. without development) are identified to assess the current baseline. Sources of GHG emissions following the construction and during operation of the Proposed Development are then assessed, from which the significance, mitigation measures and residual effects are determined.

5.61. The GHG assessment approach as extracted in Figure 5.2 overleaf considers emissions throughout the lifecycle of the Proposed Development including:

- Construction stage – embodied carbon emissions associated with manufacturing, transport, replacement and disposal of the existing and proposed building elements;
- Operational stage – embodied carbon emissions associated with replacement / refurbishment of building parts, building emissions associated with buildings' energy use, as well as transport emissions such a vehicle numbers and distances by building users; and

1 HM Government, Climate Change Act 2008. Available at: https://www.legislation.gov.uk/ukpga/2008/27/introduction (Accessed: 04/05/2021).

2 HM Government, Planning and Energy Act 2008. Available at: https://www.legislation.gov.uk/ukpga/2008/21/introduction (Accessed: 04/05/2021).

3 HM Government, 2016. The Carbon Budgets Order 2016

4 HM Government (2017). UK Climate Change Risk Assessment 2017. Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/584281/uk-climate-change-risk-assess-2017.pdf (Accessed: 04/05/2021).

5 HM Government (2016). The Building Regulations 2010, Approved Document L1A: conservation of fuel and power in new dwellings, 2013 edition with 2016 amendments. Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/540326/BR_PDF_AD__L1A__2013_with_2016_amendments.pdf (Accessed: 04/05/2021)

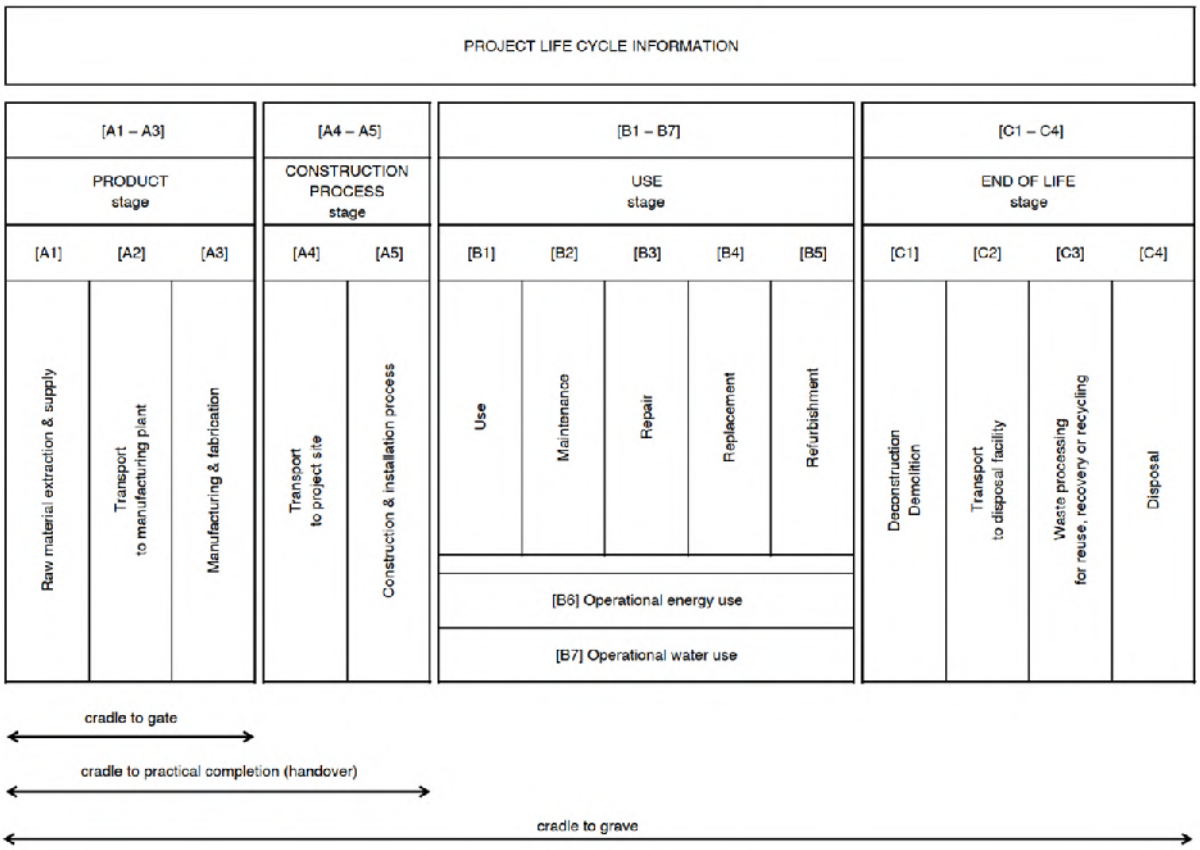
6 DECC (2011). The Carbon Plan: Delivering our Low Carbon Future. Available at: https://www.ukgbc.org/sites/default/files/3702-the-carbon-plan-delivering-our-low-carbon-future.pdf (Accessed: 04/05/2021).

7 Institute of Environmental Management and Assessment (2017). Environmental Impact Assessment Guide to: Assessing Greenhouse Gas Emissions and Evaluating their Significance.

- End of life stage – embodied carbon emissions associated with decommissioning, stripping out, disassembly, deconstruction and demolition operations as well as from transport, processing and disposal of materials.

5.62. The lifecycle stages for the Proposed Development have been identified with reference to the Royal Institution of Chartered Surveyors (RICS) guidance[8].

Figure 5.2: The GHG assessment approach



5.63. For all lifecycle stages of the Proposed Development, the assessment will include the following:

5.64. Collection of available data/information on the scale of GHG emitting activities (e.g. number of vehicle trips, kWh electricity, construction emissions) for future baseline. In each case this will cover the Proposed Development's lifespan (60 years); and

5.65. Calculation of the GHG emissions by applying a suitable emissions factor (tCO_{2e} per unit of emissions generating activity).

5.66. As set out in Chapter 4: EIA Methodology, the general approach adopted in the EIA will be to attribute an effect significance level based on the sensitivity/value of the affected receptor(s) and the magnitude of change arising from the Proposed Development. As there is only one receptor, the climate, it has a consistent sensitivity no matter the location of the emissions source. There is no accepted technical guidance for determining a level of significance (i.e. high or medium) on the

8 RICS (2017). Whole life carbon assessment for the built environment. Available at: https://www.rics.org/globalassets/rics-website/media/news/whole-life-carbon-assessment-for-the--built-environment-november-2017.pdf (Accessed: 13/05/2021)

sensitivity of the climate. Therefore, the sensitivity of the receptor will not be used to assess significance.

5.67. There are currently no agreed thresholds for what level of GHG emissions is considered significant in the context of the EIA Regulations. With regards to assigning significance, the IEMA guidance provides guidance on how to assess GHG emissions in EIA:

"When evaluating significance, all new GHG emissions contribute to a significant negative environmental effect; however, some projects will replace existing development that have higher GHG profiles. The significance of a project's emissions should therefore be based on its net impact, which may be positive or negative……

…. Whilst there is no single preferred method to evaluate significance, extensive research is being undertaken to explore significance, thresholds for GHG emission assessments, and science-based targets. "

5.68. In the absence of being able to assign a significance level, IEMA further provides some guidance on contextualising a project's GHG emissions:

"Under the principle that all GHG emissions might be considered significant, and the ongoing research of how to actually measure significance, it is down to the practitioner's professional judgement on how best to contextualise a project's GHG impact.

Generating a project's carbon contribution, will enable the impact of your project, to be contextualised against sectoral, local or national carbon budgets. This will provide the practitioner and the Local Planning Authority with a sense of scale."

5.69. Therefore, to contextualise the carbon emissions of the Proposed Development, these will compare to:

- UK Carbon Budgets (Table 5.8); and
- RIBA 2030 Climate Change targets (Table 5.9).

Table 5.8: National carbon budgets set by the Government (2016)

Carbon budget period	UK carbon budget
Third: 2018-2022	2,544 MtCO2e
Fourth: 2023-2027	1,950 MtCO2e
Fifth: 2028-2032	1,725 MtCO2e
Sixth: 2033-2037	965 MtCO2e

Table 5.9: RIBA 2030 Climate Challenge target metrics for buildings

RIBA sustainable outcome metrics	Current benchmarks	2025 Targets	2030 Targets
Domestic			
Embodied Carbon (kgCO2e/m2) (Lifecycle stages A-C)	1000	< 450	< 300
Operational Energy (kWh/m2 /y)	146	< 70	< 0-35

RIBA sustainable outcome metrics	Current benchmarks	2025 Targets	2030 Targets
Operational Carbon (kgCO2e/m2/y)	55	< 16	< 5
Non-domestic			
Embodied Carbon (kgCO2e/m2) (Lifecycle stages A-C)	1100	< 800	< 650
Operational Energy (kWh/m2 /y)	225	< 170	< 110
Operational Carbon (kgCO2e/m2/year)	83	<49	<24

5.70. The overall carbon emissions of the Proposed Development will then be contextualised by comparing these to the UK Carbon Budgets and RIBA Guidance.

5.71. Based on this contextualisation and professional judgement the overall significance of effect of the Proposed Development will be defined as follows:

- Major effect: where the Proposed Development could be expected to have a considerable effect (either positive or negative) on the achievement of national, regional or local carbon budgets; and where the Proposed Development exceeds the "Current Benchmarks" for embodied carbon and operational energy performance as defined by the RIBA Climate Challenge document;
- Moderate effect: where the Proposed Development could be expected to have a noticeable effect (either positive or negative) on the achievement of national, regional or local carbon budgets; and where the Proposed Development meets the "2020 Targets" for embodied carbon and operational energy performance as defined by the RIBA Climate Change document;
- Minor effect: where the Proposed Development could be expected to result in a very slight noticeable effect (either positive or negative) on the achievement of national, regional or local carbon budgets; and where the Proposed Development meets the "2025 Targets" for the embodied carbon and operational energy targets defined by the RIBA Climate Change document;
- Negligible: where the Proposed Development could be expected to have no discernible effect on the achievement of national, regional or local carbon budgets; and where the Proposed Development meets the "2030 Targets" for embodied carbon and operational energy targets defined by the RIBA Climate Change document.

5.72. As per IEMA guidance, all new GHG emissions contribute to a significant negative environmental effect, so regardless of the level of significance, any negative GHG effect will be treated as significant. Therefore, any major, moderate or minor effect will be considered as significant in EIA terms.

Summary of Assessment Scope

5.73. The receptor of the assessment will be the climate.

5.74. The emissions sources that have the potential to impact on the receptor, described as elements with their associated lifecycle stage during the Proposed Development lifespan, have been identified using guidance from IEMA. Professional judgement has been used to consider which elements have the potential to give rise to likely significant effects during construction, operation and end of life of the Proposed Development. The proposed scope of the assessment is consistent with the framework for

the quantification of GHG emissions presented in British Standard (BS) EN 15978:2011 'Sustainability of construction works - Assessment of environmental performance of buildings - Calculation method[9].

5.75. The following elements in Table 5.10 are proposed to be scoped in or out of further consideration in the EIA.

Table 5.10: Summary of Assessment Scope

Element	Impact	Potential Effect	Scoped In / Out
Product stage (manufacture and transport of raw materials to suppliers) A1-3	GHG emissions during the construction phase of the Proposed Development.	Raw materials required for the Proposed Development will result in embodied emissions and have the potential to be large.	Scoped In
Transport of materials to site A4	GHG emissions during the construction phase of the Proposed Development.	Construction stage emissions from fuel / energy consumption due to the delivery of material to site have the potential to be large.	Scoped In
Plant and equipment use during construction A5	GHG emissions during the construction phase of the Proposed Development.	Fuel / energy consumption of plant and equipment used during construction would generate GHG emissions.	Scoped In
Land use, land use change and forestry A5	GHG emissions during the construction phase of the Proposed Development.	Emissions from the disposal of biomass are not expected to be large.	Scoped Out
Disposal of waste A5	GHG emissions during the construction phase of the Proposed Development.	Emissions from the disposal of waste are unlikely to be large, due to a large proportion of construction waste being inert.	Scoped In
Replacement and refurbishment B2-5	GHG emissions during the operation phase of the Proposed Development.	The replacement and refurbishment of the Proposed Development would release a potentially large magnitude of emissions.	Scoped In

[9] British Standards Institution (2011). BS EN 15978:2011, Sustainability of construction works - Assessment of environmental performance of buildings - Calculation method.

Element	Impact	Potential Effect	Scoped In / Out
Operational Energy Use B6	GHG emissions during the operation phase of the Proposed Development.	In-use electricity emissions will be released on an annual basis due to the building use.	Scoped In
End-user emissions (regional traffic flows) – traffic B9/D	GHG emissions during the operation phase of the Proposed Development.	Changes to regional traffic flows are expected and this has the potential to result in a large change in GHG emissions.	Scoped In
In-use Emissions B1	GHG emissions during the operation phase of the Proposed Development.	This is not considered to be a large emission source.	Scoped Out
Maintenance B2-5	GHG emissions during the operation phase of the Proposed Development.	Maintenance associated with the Proposed Development is not considered to be a large emissions source as only a small amount will be additional to the maintenance that already takes place within the region.	Scoped Out
Repair B2-5	GHG emissions during the operation phase of the Proposed Development.	The Proposed Development is designed to be maintained rather than repaired, therefore subsequent repair emissions sources are not considered to be large.	Scoped Out
Land use, land use change and forestry B8	GHG emissions during the operation phase of the Proposed Development.	The reduction in carbon sequestration due to the Proposed Development is not considered to be large.	Scoped Out
Decommissioning process C1-C4	GHG emissions during the end of life phase of the Proposed Development.	Any emissions arising from decommissioning, stripping out, disassembly, deconstruction and demolition operations as well as from transport, processing and disposal of materials at the end of life of the project.	Scoped In

5.76. The assessment will not consider any specific Committed Developments relevant to the Proposed Development because GHG are not spatially contained, the assessment will consider the cumulative effect of all GHG that cause climate change and the assessment of the GHG due to the Proposed Development contextualises GHG comparing these to the UK Carbon Budgets and RIBA 2030 Climate Change targets. For this reason, the ES Chapter will not consider a standalone cumulative scenario.

Daylight, Sunlight and Overshadowing

Introduction

5.77. This section of the ES will present an assessment of the potential effects of the proposals on daylight, sunlight and overshadowing, which will be identified through desk-based research, site surveys and consultation with key stakeholders. It has been prepared by the chapter authors, GIA. The approach proposed in this Scoping Report has been informed by the findings of the desk-based work and published best practice guidance.

5.78. The following Committed Developments will be considered in the cumulative scenario:

- 10-12 Whitworth Street (111003/FO/2016/C1)
- Plot H, Great Jackson Street (129406/FO/2021)
- Crown Street Phase 2 (126668/FO/2020)
- Transition (116850/FO/2017)
- 1 Alpha Place (120113/FO/2018)
- Plot 9, First Street (125833/FO/2019)
- Plot 11, First Street (125573/FO/2019)
- 325 Deansgate (125804/FO/2019)
- One City Road (128002/FO/2020)
- Plot G, Great Jackson Street (129273/FO/2021)

5.79. Whilst the proposals for Plot G are yet to be decided, the scale and proximity of the proposals in relation to the Plot F Site justifies testing it as part of the cumulative scenario.

Baseline Conditions

5.80. Baseline studies are currently being undertaken by GIA. The baseline assessment will review the daylight and sunlight conditions within each of the surrounding residential properties in the Proposed Development area's present form.

5.81. The existing Site is cleared. As such, it is underdeveloped, and unusually open aspect given the city centre location, which may lead to higher baseline results to the surrounding receptors.

Method of Assessment

5.82. The BRE Guidelines suggest that residential properties have the highest requirement for daylight and sunlight and states that:

"the guidelines are intended for use for rooms in adjoining dwellings where light is required, including living rooms, kitchens and bedrooms."

5.83. The following approaches are undertaken to assess the effect on the sensitive receptors of surrounding properties:

Daylight:

- Vertical Sky Component (VSC); and
- No Sky Line (NSL) Method.

Sunlight:

- Annual Probable Sunlight Hours.

5.84. The technical analyses carried out to inform the daylight, sunlight, and overshadowing, assessment will be undertaken by creating a digital three-dimensional (3D) model of the existing Site and Proposed Development.

5.85. The 3D model uses Waldram Diagrams to establish the VSC and 3D geometric calculations for daylight distribution. This model (which is orientated to north by the use of Ordnance Survey (OS) information) enables the path of the sun to be tracked throughout the year to establish the shadow cast by the existing and proposed buildings and thus calculate the sun hours on ground in each scenario.

5.86. Only those surrounding residential properties which have windows facing towards the Site were included in the assessment. If a nearby residential property has no windows facing the Site, these properties would not be affected by the Proposed Development in terms of light.

5.87. The BRE Guide does not provide explicit targets on what constitutes minor, moderate of major adverse impacts. For daylight and sunlight, the BRE Guidelines outline the approach within the accompanying Appendix I, in terms of assigning criteria to assess the effects (para I3-I8):

"Adverse impacts occur when there is a significant decrease in the amount of skylight and sunlight reaching an existing building where it is required…The assessment of impact will depend on a combination of factors, and there is no simple rule of thumb that can be applied."

"Where the loss of skylight or sunlight fully meets the guidelines, the impact is assessed as negligible or minor adverse. Where the loss of light is well within the guidelines, or only a small number of windows or limited area of open space lose light (within the guidelines), a classification of negligible impact is more appropriate. Where the loss of light is only just within the guidelines and a larger number of windows or open space are affected, a minor adverse impact would be more appropriate, especially if there is a particularly strong requirement for daylight and sunlight in the affected building or open space."

"Where the loss of skylight or sunlight does not meet the guidelines in this book, the impact is assessed as minor, moderate or major adverse. Factors tending towards a minor adverse impact include:

- Only a small number of windows are affected;
- The loss of light is only marginally outside the guidelines;
- An affected room has other sources of skylight or sunlight; and
- The affected building only has a low level of requirement for skylight or sunlight."

5.88. The classification of major adverse is documented within Paragraph 7 of the BRE Guidelines:

"Factors tending towards a major adverse impact include:

- a large number of windows are affected;
- the loss of light is substantially outside the guidelines;
- all the windows in a particular property are affected; and
- the affected indoor spaces have a particular strong requirement for skylight or sunlight, e.g. a living room in a dwelling".

5.89. Beneficial impacts occur when there is a significant increase in the amount of skylight and sunlight reaching an existing building. Beneficial impacts should be worked out on the same principals as adverse impacts."

5.90. There is no guidance on what constitutes a moderate adverse impact.

5.91. Therefore, best practice guidance and professional judgment will be used to determine any impacts based on the guidance set out in Appendix I of the BRE Guidelines, the NPPF and the NPPG. Potential effects will be identified as **beneficial, adverse or negligible, and their magnitude of effects will be set out as Minor, Moderate and Major**.

Summary of Assessment Scope

5.92. The properties set out in Table 5.12 below will be considered due to their proximity to the Site, and their use.

5.93. The assessment has considered other adjacent residential properties and discounted a number of these due to their orientation and distance from the Proposed Development meaning that they are unlikely to be affected, so they will not be assessed in detail.

5.94. Owing to the evolving and temporary nature of demolition and construction activities, the assessment of potential effects during demolition and construction of the Proposed Development on daylight and sunlight to surrounding properties will not be modelled. Instead, a qualitative assessment will be undertaken using professional judgement and experience.

5.95. This is because the potential daylight and sunlight effects relating to demolition and construction works will vary throughout the construction programme and gradually increase to the potential effects identified for the completed Proposed Development, the interim construction effects are not assessed quantitatively as it is considered that the completed Proposed Development represents the worst-case assessment in terms of likely daylight, sunlight and overshadowing.

5.96. The following scenarios will be assessed and considered, and are reported within this Chapter of the ES:

- Scenario 1: Existing baseline; and
- Scenario 5: Phases A and B, plus cumulative developments.

5.97. Both those schemes under construction and those with planning consent but not under construction have been included in the baseline scenario, in line with the BRE Guide, and so no separate technical assessment of the cumulative impact is required.

5.98. The above scenarios represent a worst case. This is the appropriate method to determine the daylight and sunlight impacts to surrounding receptors as the baseline scenario already considers any impact on the existing surrounding receptors resulting from consented developments. This approach is supported by the BRE.

5.99. An overshadowing assessment will be undertaken on the amenity areas located within the proposed development, Deansgate Square and Crown Street Phase 2.

5.100. As Hulme Park is located to the south of the Proposed Development, the path of the sun will continue to cast sunlight onto the area throughout the day. As such, there is no potential for overshadowing and so it will not be assessed.

5.101. Table 5.11 below provides a summary of the assessment scope.

Table 5.11: Summary of Assessment Scope

Receptor	Impact	Potential Effect	Scoped In / Out
Deansgate Square	Daylight/sunlight	Negligible to moderate adverse	In
The Boatmans	Daylight/sunlight	Negligible to moderate adverse	In
The Rhine	Daylight/Sunlight	Negligible to moderate adverse	In
Hill Quays	Daylight/sunlight	Negligible to moderate adverse	In
The Danube	Daylight/sunlight	Negligible to moderate adverse	In
Lumiere	Daylight/sunlight	Negligible to moderate adverse	In
30 City Road East	Daylight/sunlight	Negligible to moderate adverse	In
City South	Daylight/sunlight	Negligible to moderate adverse	In
River Street Tower	Daylight/sunlight	Negligible to moderate adverse	In
The Blade	Daylight/sunlight	Negligible to moderate adverse	In
The Circle	Daylight/sunlight	Negligible to moderate adverse	In
Transition	Daylight/sunlight	Negligible to moderate adverse	In
The Nile	Daylight/sunlight	Negligible	Out

Solar Glare

Introduction

5.102. This section of the ES will present an assessment of the potential effects of the proposals on solar glare. It has been prepared by the chapter authors, GIA.

5.103. The BRE guidelines provide that '*glare or solar dazzle can occur when sunlight is reflected from a glazed façade or area of metal cladding*'. This is considered a potential issue in relation to road users and train drivers whereby sun reflections can obscure the view of signals, consequently reducing the driver's visibility and responsiveness.

5.104. The façade treatment for the Proposed Development is understood to include large areas of glazing and/or reflective cladding, as such, a solar glare assessment will be considered necessary.

- Road junctions are particularly sensitive in relation to solar glare as instances of reflection may obscure the view of traffic signals or temporarily blind drivers and thus result in accidents.
- Rail tracks are also sensitive in relation to solar glare that could impact signal visibility.

5.105. In relation to the Proposed Development, due to the close proximity of the Site to main roads and rail tracks, several viewpoints are considered likely to be sensitive and therefore will be assessed.

Baseline Conditions

5.106. The solar glare assessment is undertaken on the worst-case scenario. Solar glare is not a comparative assessment; the fact it may occur in the baseline does not necessarily justify its occurrence as a result of the Proposed Development. Therefore, the assessment considers the effect of the Proposed Development in absolute terms.

5.107. However, it should be noted that the Proposed Development will be located on a Site where its existing state is a construction compound thus there is limited opportunity for instances of solar glare from the Site to be experienced. Solar glare from surrounding buildings is not assessed.

Method of Assessment

5.108. The assessment of solar glare identifies the time of the day and year that solar reflections will be visible from the assessed viewpoints, as well as their relationship to a driver's line of sight. The assessment does not however, measure the intensity of the reflection but merely the occurrence and duration.

5.109. For solar glare, the worst-case scenario is portrayed by the complete and operational Proposed Development, where all reflective facade materials have been installed and any covers, films or hoarding used during the construction period have been removed.

5.110. It is unlikely that solar reflections would be generated by the installed glazing/cladding of Phase A in isolation due to the proposed construction programme overlapping, whereby construction of Phase B would be advanced by the time Phase A is completed.

5.111. As such, the most appropriate scenario is considered to be Scenario 4 (Phases A and B).

5.112. As the Proposed Development is a phased application, there is the potential that changes in the intended construction programme may occur and Phase A could be completed but Phase B works may not have commenced on site. Due to the location of the buildings in relation to the sensitive viewpoints, and the angles of the facades, based on professional judgement, the residual effects are not expected to differ from those of the fully implemented Proposed Development, Scenario 4

5.113. Based on a common practice approach to portray the worst-case scenario, the cumulative effect will not be considered as neighbouring Committed Developments can block sunlight reaching the facades of the Proposed Development and/or obscure the Proposed Development from the viewpoints to be assessed. However, the following committed developments are included within the surrounding context as their completed form (within the baseline) due to their construction having commenced or recently completed:

1) 2-4 Chester Road;

2) Deansgate Square;

3) Crown Street Phase 1 (Elizabeth Tower and Victoria Residence);

4) Crown Street Phase 2 (excluding the School); and

5) Viadux.

5.114. For solar glare, drivers at each of the relevant road junctions are considered the sensitive receptors, where there are multiple directions of travel potentially affected, each direction of travel at the junction is considered a separate receptor as their effect significance may differ.

5.115. For rail tracks, the train or tram drivers on the stretch of track are the sensitive receptor. The effect significance will be determined using professional judgement taking into consideration the duration of solar reflections, location of these in relation to a driver's line of sight, type of junction control and the probability of reflections occurring. The effect significance is given on a per junction basis considering all viewpoints assessed for that junction as well as any viewpoints that would not be affected by the Proposed Development.

5.116. There are no quantitative criteria within the BRE Guidelines or elsewhere regarding acceptable levels of solar glare. When assessing the overall significance of effect, the following factors could influence the nature, scale and resultant significance of effect:

- Sunlight availability probability;
- Area of façade off which reflections are visible;
- Period of time when reflections are visible;
- Angle at which reflections are visible from line of sight;
- Views of the Proposed Development being obscured for example by trees; and/or
- The time of day at which the solar reflection will occur for example during peak traffic times.

5.117. The factors in Table 5.122 will be used to ascertain the possible significance for each view and the factors listed above will then be taken into consideration to determine the overall significance for the designated viewpoint.

Table 5.12 – Solar Glare Criteria

Scale of Effect	Possible factors
Negligible	No reflections are visible or if visible all occur at angles greater than 30° from the driver's line of sight and so, as stated by the CIE, will be of "little significance".
Minor	Solar reflections are visible within 30° to 10° or between 10° to 5° of the driver's line of sight for a short period of time
Moderate	Solar reflections are visible within 10° and 5° of the driver's line of sight occurring for a long period of time.
Major	Solar reflections are visible within 5° of a driver's line of sight.

Summary of Assessment Scope

5.118. As construction works progress, and the facades of the Proposed Development are installed, the potential solar glare effects would be similar to those once the Proposed Development is complete and operational. It is therefore considered that the completed Proposed Development represents the worst-case assessment in terms of likely solar glare effects. The construction scenario will be assessed qualitatively, based on professional judgement. As the worst-case scenario for solar glare is portrayed by the complete and operational development, a quantitative assessment has been undertaken for the operational phase only.

5.119. The assessment will consider potentially sensitive viewpoints for road and rail drivers surrounding the site. The viewpoints will generally be located at the minimum stopping distance for road users and at the driver's eye level with the focal point being a relevant traffic element, such as signals or incoming traffic. For rail drivers, viewpoints will be assessed where signals are visible or at representative intervals where the Proposed Development would be visible close to the direct line of sight for a substantial stretch of track.

5.120. Viewpoints within 500m of the Site, where the Proposed Development is visible within the driver's field of view will be assessed. At distances greater than 500m from the Proposed Development, instances of solar glare would be unlikely to occur. A review of the surrounding area as shown on Figure 5.3 below has identified the following road junction and rail tracks as receptors sensitive to solar glare.

Figure 5.3: Solar glare Sensitive Receptor Viewpoints



5.121. Table 5.13 below provides a summary of the assessment scope.

Table 5.13: Summary of Assessment Scope

Receptor	Impact	Potential Effect	Scoped In / Out
Solar Glare impacting visibility of road users at selected viewpoints	Safety issues concerning transit through critical intersections and junctions	Visibility of traffic lights, intersections and pedestrian crossings could be obscured by instances of glare, potentially resulting in traffic accidents	Scoped in
Solar Glare impacting visibility of train drivers on nearby railway tracks	Safety issues concerning visibility of train drivers along nearby railway tracks	Visibility of signals along the tracks could be obscured by instances of glare, potentially resulting in accidents	Scoped in

Human Health

Introduction

5.122. The following section outlines the methods and scope of the assessment that are expected to be required to examine the likely human health impacts of the Proposed Development on the site and surrounding area. The Environmental Impact Assessment Regulations (May 2017) amendments included making explicit the requirement to consider population – and human health. There is no prescribed EIA definition for human health but the identification, description, and assessment of effects on human health is well established in the UK for Strategic Environmental Assessment (SEA). Consideration of human health and well-being within EIA is separate from Health Impact Assessment (HIA), although each process can inform the other.

5.123. The complexities of development planning for human health are reported[10] - due to the multiple determinants of health and wellbeing, and the need for cross-sectoral understanding and collaboration. There are linkages between the global ecosystem, the natural and built environments, the local economy with communities, people, and their lifestyles, and likely interactions between different sectors.

5.124. It is considered that most of the factors scoped into the EIA can have impacts on health and quality of life/wellbeing – both positive and negative – and both physical and mental through townscape, air quality, climate change resilience, flood risk, noise, provision of/accessibility to good quality housing & employment, health & community services, transport, and green infrastructure. The overall approach to human health will be to consider the summary findings of each relevant technical topic and align these with their interconnectedness into the themes for healthy urban planning. The assessment will consider the potential impacts on human health from the Proposed Development on identified receptors during demolition, construction and operation.

Baseline Conditions

5.125. Different study areas will be used for the assessment of individual human health impacts, according to each relevant technical topic. Overall, the study area will be the site with local surrounds, and the wider study area of Manchester City for the themes for healthy urban living and based upon professional judgement.

5.126. Baseline data will be gathered from a range of publicly available sources of information and will draw upon local health and wellbeing information and priorities, for example, published local authority health profiles through Public Health England (PHE, 2017-2019)[11] and Office for National Statistics (ONS) for health and life expectancies (2017-2019)[12], and as reported by Manchester City Council[13]. The key baseline from the other technical topics will be considered where relevant. It is not anticipated to be necessary to undertake primary research or surveys specific to the Human Health chapter.

Method of Assessment

5.127. There is no standard methodology for assessing health in EIA and the complexities of investigating health impacts are recognised, for example, by Public Health England (PHE)[14] with their Wider Determinants of Health tool that details the multiple determinants for health and the need for cross-sectoral understanding. This guidance is primarily focused on spatial plan makers and public health practitioners, but the principles and checklist can be applied to major development proposals. The

[10] *Barton H, Grant M & Guise R (2nd edition 2010) Shaping Neighbourhoods: for local health and global sustainability Taylor & Francis Ltd, England*
[11] https://fingertips.phe.org.uk/profile/health-profiles
[12] https://www.ons.gov.uk/peoplepopulationandcommunity
[13] https://secure.manchester.gov.uk/info/200088/statistics_and_intelligence/2178/health_and_wellbeing
[14] https://fingertips.phe.org.uk/profile/wider-determinants

recent Health Impact Assessment in Spatial Planning (PHE, 2020) similarly focuses on spatial planning and SEA but does include an annex on integrating HIA in EIA and asserts the importance of a "*proportionate and justified approach*". The EIA professional body Institute of Environmental Assessment & Management (IEMA) has prepared outline guidance for practitioners – Health in EIA, a Primer for a Proportionate Approach (2017)[15] - it is important that health in EIA is proportionate, balanced, and relevant.

5.128. The health impact assessment will consider the direct implications for health such as the provision of housing and employment. Also, implications such as those arising through pollution, air quality, or safety risks, and accessibility to healthcare facilities and sustainable transport (public, cycling and walking) for healthy living. It will further consider the wider implications for health and well-being, such as disturbance/nuisance, provision and accessibility to green infrastructure, amenity, cultural and recreational facilities.

5.129. It is proposed that the assessment will consider the four Themes for health and wellbeing, as identified by the Healthy Urban Development Unit[16], as follows:

- Healthy Housing
- Active Travel
- Healthy Environment
- Vibrant Neighbourhoods

5.130. Each technical impact assessment is subject to its own standards, regulations, and methods of assessment. The key findings from each topic will be considered such that any significant impacts for human health are clearly presented in a separate chapter. The key impacts for health will be considered and inter-relationships will be integrated within the four themes identified for healthy urban living.

5.131. Sensitive receptors will include future users and occupiers of the Site and the surrounding local area, and will include:

- On-site operatives during construction;
- existing residents, businesses, communities around the Site, as well as any other sensitive receptors identified by the technical assessments;
- future users and visitors of the Site; and
- pedestrians.

5.132. The Assessment will assess Scenario 4, with Scenario 5 addressed as part of the cumulative scenario assessment.

5.133. Effects that are described as 'minor' or 'negligible' are determined to be 'Not Significant' and effects that are described as 'moderate' or 'major' are determined to be 'Significant'. This takes into account the sensitivities of receptors as high, moderate, low. The criteria and categories of significance applied in the health impact assessment are, as follows:

- Major Adverse/Beneficial – important considerations at local or district scale; if adverse, are potential concerns to the project & may become key factors in the decision-making process

[15] https://www.iema.net/assets/newbuild/documents/IEMA%20Primer%20on%20Health%20in%20UK%20EIA%20Doc%20V11.pdf
[16] London HUDU (developed from Barton & Grant 2007)

- Moderate Adverse/Beneficial – modest important local effects that, if adverse, are not likely to be key issues for decision-making
- Minor Adverse/Beneficial – Slight, short, or highly localised effects that, if adverse, are unlikely to be important in the decision-making process
- Negligible – no appreciable effects on health factors

5.134. Standardised sectoral thresholds and significance criteria will be used for each of the relevant technical factors that contribute to health and well-being. The overall likely significant effects on health will then be determined in a qualitative way using professional judgment.

Noise and Vibration

Introduction

5.135. This section of the ES will present an assessment of the potential effects of the proposals on Noise and Vibration. It has been prepared by the chapter authors, Fisher Acoustics.

5.136. This assessment will consider the potential impact of noise and vibration from the Proposed Development on the surrounding noise sensitive receptors during the construction and operational phases. Any significant impacts to existing and proposed sensitive receptors will be identified and subsequent mitigation measures will be proposed. Where mitigation measures are proposed, the anticipated residual impacts will also be identified.

Baseline Conditions

5.137. Under normal circumstances, noise level surveys would be carried out around the site in order to determine the prevailing noise climate at the proposed development and at existing noise-sensitive receptors. However, given the Coronavirus restrictions that are in place, it is expected that the prevailing external noise levels around the site are not the same as would be the case under normal circumstances, particularly in relation to night time noise levels. In particular, night time noise levels are expected to be significantly lower than would normally be the case due to restrictions affecting the night time economy.

5.138. Any noise survey carried out in the foreseeable future is not expected to be fully representative of the long-term noise climate at and around the site. For the purposes of the noise and vibration assessment, it is therefore proposed that reference be made to noise surveys carried out in the area over the last few years (e.g. Deansgate Square, Plot E Great Jackson Street, Plot G Great Jackson Street) and to online resources (eg http://www.extrium.co.uk/noiseviewer.html). Further information can be found at https://www.ioa.org.uk/sites/default/files/joint_guidance_on_the_impact_of_covid.ioa_anc_v6.pdf.

5.139. Therefore, the noise climate at nearby existing and planning – approved residential accommodation, including Deansgate Square, Plot E Great Jackson Street and The Boatmans can be determined without recourse to a specific noise survey.

5.140. It has been agreed with the Environmental Protection Section of Manchester City Council that the baseline conditions can be determined solely by reference to noise survey data gathered in 2015 and 2019 for the developments identified above and to online resources, on the basis that post-planning noise surveys will be carried out to inform the detailed design of the building facades upon the lifting of restrictions. Post-planning noise surveys would also be carried out to confirm the daytime and night time background noise levels at pre-existing noise sensitive receptors.

5.141. There are no notable sources of existing vibration at and around the Site that would be able to impact upon the proposed or existing properties at and around the Site. Therefore, no baseline measurements of vibration at the Site are proposed.

Method of Assessment

5.142. Potential noise and vibration effects during the construction works and the completed development to be addressed in the ES will include:

- Temporary noise and vibration nuisance due to enabling and construction works (including demolition) associated with daytime and (if required) night time works;
- Noise nuisance to existing surrounding sensitive receptors due to road vehicle movements generated during the demolition, enabling and construction works - associated with daytime and (if required) night time works;
- Noise generated from permanent fixed building services plant;
- Noise egress such as amplified sound from proposed residential leisure uses; and
- The cumulative operational impacts associated with this and other proposed schemes within the locality will be established and assessed. This will principally be in relation to building services noise and the control of commercial noise egress with the assessments undertaken in line with the methods outlined in the following chapter.

5.143. It is not intended to carry out a noise assessment relating to the movement of cars to and from the proposed car park, in line with the guidance given in Design Manual for Roads and Bridges discussed below.

5.144. The noise and vibration impact assessment will be undertaken with reference to the following standards and guidance documents:

- Planning & Noise, Technical Guidance' issued by Manchester City Council (2015)
- World Health Organisation 'Guidelines for Community Noise' (1999)
- NPPF (2019)
- Noise Policy Statement for England (NPSE)
- BS 5228 – Noise and vibration control on construction and open sites
- BS 7385 – Evaluation and measurement for vibration in buildings
- BS 6472 – Guide to evaluation of human exposure to vibration in buildings: Part 1 – Vibration sources other than blasting
- BS 4142 – Methods for rating and assessing industrial and commercial sound
- BS 8233 – Guidance on sound insulation and noise reduction for buildings
- BS 7445 – Description and measurement of environmental noise
- Calculation of Road Traffic Noise, Department of Transport (1988)
- ANC Guidelines: Measurement and Assessment of Ground borne Noise and Vibration (2001)
- IEMA 'Guidelines for Noise Impact Assessment' (2014)
- Environmental Protection Act (EPA) [Sections 79 and 80]
- Control of Pollution Act (CoPA) [Sections 60 and 61].

5.145. The potential effects of the Proposed Development on the surrounding area, and on nearby noise sensitive premises, will be assessed by calculation with respect to the relevant criteria.

5.146. The construction noise and vibration assessment will be based on the guidance given in BS 5228:2009 Noise and Vibration Control on Construction and Open Sites and BS 7385 'Evaluation and Measurement for Vibration in Buildings, Part 2: Guide to Damage Levels from Ground-borne Vibration'.

5.147. Identification of potentially sensitive noise and vibration receptors on and surrounding the Site and categorisation of the 'sensitivity' in accordance with EIA terminology, as illustrated in Table 5.14 below.

Table 5.14: Receptor sensitivity

Sensitivity of receptor	Description
High	Residential properties, hotels and hostels
Moderate	Commercial, health care and educational buildings
Low	Residential amenity retail buildings and industrial buildings

5.148. The magnitude of impact shall be defined in accordance with recognised noise and vibration guidance and corresponding EIA terminology (Major, Moderate, Minor, Negligible).

5.149. In terms of nature and scale of effects, effects will be defined as either adverse, beneficial or neutral in nature.

5.150. The scale of effects will refer to guidance within the Noise Policy Statement for England (NPSE), the decision making includes identifying whether the overall effect of the noise exposure generated by a development is, or would be, above or below the significant observed adverse effect level and the lowest observed adverse effect level. The definitions for the different effect levels are outlined below:

- Significant Observed Adverse Effect Level (SOAEL): The level of noise exposure above which significant adverse effects on health and quality of life occur.
- Lowest Observed Adverse Effect Level (LOAEL): The level of noise exposure above which adverse effects on health and quality of life can be detected.
- No Observed Effect Level (NOEL): The level of noise exposure below which no effect at all on health or quality of life can be detected.

5.151. Typically, effects (either before or after mitigation) that are major or moderate in scale shall be considered as 'significant effects' i.e., exceeds the LOAEL. The exception to this will be temporary non-permanent sources where a moderate effect would be considered acceptable as it does not exceed the SOAEL.

5.152. The potential EIA scenarios are as follows:

- Scenario 1: Existing baseline
- Scenario 2: Phase A
- Scenario 3: Scenario 2 + Committed Developments
- Scenario 4: Phases A and B
- Scenario 5: Scenario 4 + Committed Developments.

5.153. Given the relatively small distances from Phase A and Phase B to the respectively closest noise sensitive receptors, and the distance between Phase A, Phase B and the Committed Developments, the noise impact and any associated mitigation measures for Scenarios 2, 3, 4, and 5 are expected to be the same. It is therefore intended that only Scenario 5 is assessed in relation to noise impact.

Construction Phase

5.154. Significance criteria for assessing the effect of construction plant noise and vibration are based broadly on the guidance set out in BS 5228-1&2: 2009+A1:1014 'Code of practice for noise and vibration control on construction and open Sites', and are presented in Table 5.15.

Table 5.15: Significance criteria for assessing construction noise and vibration

Effect category	Daytime Noise Levels	Vibration Levels
Negligible	Lower than existing ambient L_{Aeq}, or greater than the existing ambient L_{Aeq} but less than the threshold noise level (dependent on existing ambient noise levels).	Peak particle velocity (PPV) less than 0.14 mm/s.
Minor Adverse	Greater than existing ambient L_{Aeq} and between the threshold noise level and threshold noise level +5 dB (dependent on existing ambient noise levels).	PPV regularly exceeding 0.14 mm/s, but less than 0.2 mm/s.
Moderate Adverse	Greater than the threshold noise level +5 dB (dependent on existing ambient noise levels) but for no more than 10 days in any month.	PPV regularly exceeding 0.2 mm/s, but less than 1.0 mm/s.
Major Adverse	Greater than the threshold noise level +5 dB (dependent on existing ambient noise levels) for more than 10 days in any month.	PPV regularly exceeding 1.0 mm/s.

Operational Phase

5.155. The operational noise affects will be assessed with respect to the baseline measurements and where appropriate the baseline for the development year.

5.156. There are no vibration sources associated with the operational phase of the proposed development.

5.157. The Design Manual for Roads and Bridges (DMRB) (Vol 11 Environmental Assessment Part 7 Noise and Vibration (2011 –Revision 1)) advises that the threshold criteria used for traffic noise assessment during the day is a permanent change in magnitude of 1 dB LA10,18h in the short term (i.e. on opening) or a 3 dB LA10,18h change in the long term (typically 15 years after project opening).

5.158. Furthermore, the DMRB also states that a change in noise level of 1 dB LA10,18h is equivalent to a 25% increase or a 20% decrease in traffic flow, assuming other factors remain unchanged and a change in noise level of 3 dB LA10,18h is equivalent to a 100% increase or a 50% decrease in traffic flow.

5.159. The only links for which traffic flows may increase by more than 50% due to the Proposed Development are Great Jackson Street and Melbourne Street. An assessment of the impact of these traffic flow changes will be carried out.

5.160. For the assessment of building services noise, reference will be made to BS 4142:2014+A1:2019 'Methods for rating and assessing industrial and commercial sound'.

5.161. Criteria for the assessment are set in accordance with BS 4142 and the Institute of Acoustics (IOA) / Institute of Environmental Management and Assessment (IEMA) 'Guidelines for Noise Impact Assessment' as described in Table 5.16.

Table 5.16: Significance criteria for assessing noise impact

Effect Category	Increase in noise level (dB)	Description
Negligible	<1	Noise increase is unlikely to be discernible
Minor Adverse	1.0 to 2.9	A slight increase in noise levels may be perceived in affected buildings and outdoor recreational areas
Moderate Adverse	3 to 4.9	Increase in noise levels is likely to be noticeable in affected buildings and outdoor recreational areas
Major Adverse	>5	Increase in noise level is likely to be clearly perceivable and could have a significant impact on the continued use of a building

Summary of Assessment Scope

5.162. The key considerations associated with the noise and vibration impact of the development are summarised in Table 5.17.

5.163. The impact of these key considerations on each of the nearby noise sensitive premises identified below will be considered in the noise and vibration chapter of the ES.

- Dwellings at Owen Street ('Deansgate Square')
- Dwellings on River Place ('The Boatmans')
- Dwellings on River Place ('River City')
- Planning-approved dwellings at Plot G, Great Jackson Street
- Planning-approved dwellings at Plot E, Great Jackson Street
- Dwellings on City Road East ('City South')

Table 5.17: Summary of Noise and Vibration Assessment Scope

Receptor	Impact	Potential Effect	Scoped In / Out
Dwellings within the Proposed Development	Noise impact of environmental noise levels due to, for instance, road traffic and train movements.	Permanent effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance). Any potential effects will be mitigated via the facade	In

Receptor	Impact	Potential Effect	Scoped In / Out
		design of dwellings within the development.	
	Noise impact of new external fixed plant items associated with the development	Permanent effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance). Any potential effects will be mitigated via the facade design of dwellings within the development and the design of new external fixed plant items associated with the development.	In
	Noise impact of any amplified music associated with the amenity/leisure spaces of the development	Permanent effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance). Any potential effects will be mitigated via the facade design of dwellings within the development and any premises with amplified music associated with the development.	In
	Cumulative noise impact in conjunction with other developments in the area.	Permanent effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance). Any potential effects will be mitigated via the facade design of dwellings within the development.	In
Existing and proposed nearby dwellings	Noise and vibration impact of temporary construction activities	Temporary effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance). Any potential effects will be mitigated or controlled via the construction noise and vibration assessment.	In

Receptor	Impact	Potential Effect	Scoped In / Out
	Noise impact of temporary construction traffic	Permanent effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance). Any potential effects will be mitigated or controlled via the construction noise and vibration assessment.	In
	Noise impact of new external fixed plant items associated with the development	Permanent effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance). Any potential effects will be mitigated via the design of new external fixed plant items associated with the development.	In
	Noise impact of any amplified music associated with the development	Permanent effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance). Any potential effects will be mitigated via the facade design of any premises with amplified music associated with the development.	In
	Cumulative noise impact in conjunction with other developments	Permanent effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance).	In
	Noise impact of changes in road traffic flows on local roads	Permanent effects on human activity and health (e.g. annoyance, speech communication, sleep disturbance).	In

Townscape and Visual Impact

Introduction

5.164. This section of the ES will present an assessment of the potential effects of the proposals on townscape and visual impact. It has been prepared by the chapter authors, Chris Burnett Associates.

5.165. In the Townscape and Visual Impact (TVIA) ES Chapter, effects will be assessed as a function of both the magnitude of the impact or change and the sensitivity of the townscape resource or visual

receptor affected. The adopted method of Townscape Appraisal (TA) has been devised to address the specific effects likely to result from a development of the scale, nature and location of the Proposed Development. The methodology draws upon the following established best practice guidance:

5.166. Guidelines for Landscape and Visual Impact Assessment Third Edition (GLVIA) (Landscape Institute) (LI) and Institute of Environmental Management & Assessment (IEMA), 2013; and Townscape Character Assessment, Technical Information Note 05/2017.

5.167. Photographs from representative viewpoints will be produced in compliance with the following:

- Technical Guidance Note 06/19 Visual Representation of Development Proposals (Landscape Institute, 2019) In relation to Tall Building Assessments a methodology that uses a Cannon 5DMkII FFS with a Canon 24 TS-E 24mm Lens is proposed.
- This is not without precedent as most TVIAs produced as part of EIAs for Tall Buildings in Manchester to date have used this equipment effectively to demonstrate accurately and verifiably the visual and townscape effects of a tall building on the townscape and views. As Technical Guidance note 06 / 19 notes:

  'If the site / setting cannot be captured with the 50mm lens (e.g. close, tall buildings), consider alternative lenses. If a 50mm FL lens cannot capture the view in landscape or portrait orientation (for example, if the highest point of the development is approaching 18° above horizontal) the use of wider-angled prime lenses should be considered, working through the following sequence of fixed lenses in this order: 35mm FL > 28mm FL > 24mm FL > 24mm FL Tilt-Shift'

5.168. Geographical data sets will be created to test the theoretical visibility of the Proposed Development, which will be used to inform both the architecture and masterplan design, the visual assessment, and field surveys.

5.169. The extent of the area within which the Proposed Development will be likely to result in visual effects or indirect effects on townscape character, is limited by the local landform and extent of existing built-up areas.

5.170. The study area is proposed to be set at a distance of 1.0km around the Site, beyond which it is not considered that effects on landscape character or visual amenity will be likely to result from the Proposed Development. This is in line with GLVIA (paragraphs 5.2 and 6.2).

5.171. In terms of Cumulative Developments, the following schemes are potentially judged to have an effect (refer to Plot F Committed Developments, Deloitte):

- 13 - Salford Central
- 14 - Irwell Quay
- 33 - Union St St Johns
- 34 - Union St St Johns
- 35 - Middlewood Locks
- 36 - Arundle Street
- 37 - Slate Wharf
- 39 - St Johns Place
- 43 - 325 -327 Deansgate
- 44 - Plot B7 Salford
- 45 - Land at Deansgate South
- 47 - Gt Jacksons Street.

Baseline Conditions

5.172. Townscape and visual impacts can arise from the addition of, or changes to, physical features in the townscape and views, which affect its character. The visual impact assessment addresses the impacts of the Proposed Development on the current baseline, in terms of views within the study area of Manchester City Centre as defined by the selection of the Representative Viewpoints.

5.173. The assessment of townscape impacts will be structured around the identification of distinct blocks of townscape, or character areas, defined through homogeneity of scale, materials, land use, heritage, street pattern, open space, amongst other factors as they exist in 2021.

Method of Assessment

5.174. The Institute of Environmental Management and Assessment (IEMA) / Landscape Institute 'Guidelines for Landscape and Visual Impact Assessment' (3rd Ed., 2013) will be used as the principal source of guidance for the methodology for this assessment. The 2015 Historic England Advice Note (no.4) on Tall Buildings, which supersedes the 2007 guidance, will also be used as relevant guidance (NB The 2020 Tall Building Guidance is currently at the Consultation Draft stage and is not yet policy). An Advice Note on this matter is appended to this Report. A Zone of Theoretical Visibility (ZTV) map will be produced using Lidar data superimposed onto a 10K map to provide an indication of the Proposed Developments' visibility and guide the selection of viewpoints.

5.175. A number of 'Representative Viewpoints' will then be selected and agreed with MCC, all within the identified ZTV. They will be confirmed following extensive fieldwork. This will inform the assessment of the effect of the Proposed Development on townscape character, views and visual receptors in more detail and on a comprehensive basis, taking in short, medium and long range views, all from publicly accessible viewpoints.

5.176. Receptors fall into two categories: Townscape receptors and Visual Receptors. Viewpoints will be selected to ensure that the Proposed Development is assessed from a 360 degree basis and from a range of different viewpoints which include approach roads, key, well used city centre streets, tram stations, urban parks, civic spaces and buildings and sensitive historic environments such as Castlefield. These views are highlighted within Appendix 5 and 6 of this Report.

5.177. The Townscape and Visual Impact Assessment will be supported by Accurate Visual Representation (AVRs) consisting of rendered and wireline images of the Proposed Development superimposed onto baseline photographs which are accurately surveyed from selected viewpoints. Landscape Institute Technical Note 06/19 Visual Representation of Development Proposals will be used to inform the methods for production of visualisations but a Type 4 Photomontage / Photowire (Survey/ Scale Verifiable) is deemed an appropriate level of visualization in these circumstances.

Townscape: Sensitivity of Receptor and magnitude of change

5.178. The sensitivity of a townscape receptor is an expression of its ability to accommodate the Proposed Development. Sensitivity is a judgement based on a combination of the susceptibility of the type of change or development proposed and the value attached to the townscape. Susceptibility indicates the ability of a defined townscape receptor to accommodate the Proposed Development "without undue consequences for the maintenance of the baseline situation and/or the achievement of landscape planning policies and strategies." (GLVIA, 3rd version, para 5.40). Susceptibility is evaluated for each receptor type. The overall sensitivity of each townscape receptor would be rated within the range of High-Medium-Low and would be informed by combining the susceptibility and townscape value.

5.179. The magnitude of a townscape effect is assessed in terms of its size or scale, the geographical extent of the area influenced by that effect, and its duration and degree of reversibility and would be rated within the range of Major-Moderate-Minor-Negligible-No Change.

Visual: Sensitivity of receptor and magnitude of change

5.180. In terms of assessing the baseline visual sensitivity, key factors to consider are the type of view and the likely numbers and types of viewers (the visual receptors). The type of view and the number of viewers are described in the following terms

- Glimpsed (i.e. in passing)/ Filtered/Oblique / Framed /Open Views; and
- Few/Moderate / Many Viewers
- The value attached to views has regard to a number of factors, including:
- Recognition through planning designations or heritage assets; and
- The popularity of the viewpoint, its appearance in guidebooks, literature or art, on tourist maps and the facilities provided for its enjoyment.

5.181. The GLVIA identifies that the susceptibility of visual receptors to changes in views and visual amenity is a function of:

- The occupation or activity of people experiencing the view at a particular location; and
- The extent to which their attention or interest may therefore be focused on the views and visual amenity they experience at particular locations.

5.182. The assessment of receptor sensitivity is rated on the scale High-Medium-Low and combines judgements on the susceptibility of the receptor to the specific type of development proposed and the value attributed to that receptor. The magnitude of a visual effect is assessed in terms of its size or scale, the geographical extent of the area influenced and its duration and degree of reversibility and will be rated within the range of Major-Moderate-Minor-Negligible-No Change.

Significance of effect

5.183. The objective of the assessment process would be to identify and evaluate the likely significant effects arising from the Proposed Development. Significance indicates the importance or gravity of the effect. Whilst there would be a degree of professional judgement involved in determining the significance of townscape and visual effects, they can broadly be determined by the interaction of the sensitivity of the receptor and the magnitude of change as shown in Table 5.18 below.

Table 5.18: Significance of effect

		Magnitude of Effect				
		Major Effect	Moderate Effect	Minor Effect	Negligible Effect	No Change
Sensitivity of Receptor	High	Major Significance	Moderate Significance	Moderate Significance	Minor Significance	Negligible
	Medium	Moderate Significance	Moderate Significance	Minor Significance	Negligible	Negligible
	Low	Moderate Significance	Minor Significance	Negligible	Negligible	Negligible

5.184. A professional judgement is made as to whether the effect is **significant** or **not significant** in EIA terms. For the purposes of the Townscape and Visual Impact Assessment, effects of **Moderate Significance** and above are considered to be **Significant**. Those values of Minor and below are therefore deemed to be **Not Significant**. A professional judgement is also made as to whether the effect is of an adverse or beneficial nature.

Summary of Assessment Scope

5.185. The scenario which is the focus of the TVIA is the worst case scenario which is Scenario 5. Other scenarios have been discounted as the effects of the construction of one tower on this Site are predicted to be more or less the same as two towers, hence it is appropriate to test the worst case scenario.

Scenario 5: Scenario 4, (Phases A and B) + Cumulative Developments.

5.186. Table 5.19 summarises the townscape and visual receptors identified for inclusion in the assessment in the ES. The focus of the TVIA will be on the completed operations phase.

Table 5.19: Summary of Assessment Scope

Receptor	Impact	Potential Effect	Scoped In / Out
Townscape character	Townscape impacts	Addition of new elements or features that will influence the character and distinctiveness of the townscape	In
Visual receptors	Townscape and visual impacts on people	Effects on receptors who are most sensitive and least sensitive to changes in the view dependent on category of receptor	In

Traffic and Transport

Introduction

5.187. This chapter of the Environmental Statement (ES) will examine the potential environmental impacts of traffic generated by the Proposed Development. It has been prepared by Chapter authors, Curtins.

5.188. During the operational phase, the Proposed Development will generate traffic flows with potential impacts on the highway network surrounding the Application Site. These impacts may relate to driver delay, impacts on public transport users, pedestrian delay and amenity, fear and intimidation, severance, collisions and road safety, and hazardous loads. There could also be impacts as a result of construction vehicles generated during the construction phase of the development.

5.189. A TA and TP will be prepared to accompany the planning application. These reports will form appendices to the ES.

5.190. The scope of the TA, including the study area and scenarios for assessment, will be discussed with MCC and Transport for Greater Manchester prior to submission of the planning application. The TA will inform the 'Traffic and Transportation' chapter of the ES.

5.191. Changes in traffic flows will lead to changes in environmental effects related to air quality and these will be assessed in a separate chapter of the ES. The traffic data sources for these assessments will be the same as those used for the TA and the 'Traffic and Transportation' chapter of the ES.

5.192. The key transport policy documents that are relevant to this assessment are set out below:

- NPPF (2019);
- National Planning Practice Guidance (2014);
- Manchester Core Strategy 2012 – 2027 (2012); and
- Greater Manchester Transport Strategy 2040 (2021).

5.193. The key guidance documents that are relevant to this assessment are set out below:

- Guidelines for the Environmental Assessment of Road Traffic (1993);
- Guidelines for Providing for Journeys on Foot (2000);
- Integrating Cycling into Development Proposals (2008);
- Buses in Urban Developments (2018); and
- Design Manual for Roads and Bridges (Various Dates).

5.194. The relevant sections of these policy and guidance documents will be summarised in the TA.

Baseline Conditions

5.195. The baseline conditions that the Proposed Development will consist of a range of different receptors. These include pedestrians, cyclists, public transport users and drivers of private and commercial motorised vehicles.

5.196. In order to gain an understanding of the baseline traffic conditions, traffic data will be utilised for the agreed study area (explained in further detail below). Additionally, road traffic collision data for the most recent five year period available will be obtained and reviewed.

5.197. The Application Site forms part of the wider GJS Framework area which encompasses a site area of 8.75 hectares. The SRF has been endorsed by MCC to create a high quality residential-led neighbourhood at a key point of entry into the city centre. This neighbourhood has an essential role to play in supporting Manchester's growth, productivity and quality of life.

5.198. The Application Site is bound by the SRF's Plot E and Great Jackson Street to the west, Great Jackson Street as well to the south, existing residential properties to the east and SRF's Plot A (Deansgate Square residential development) to the north.

5.199. The Application Site has a Greater Manchester Accessibility Levels rating of 8, where level 8 represents a high level of accessibility (described as 'excellent') by Transport for Greater Manchester. The nearest bus stops are located on Chester Road and Medlock Street; these are within a c. 250m and c. 400m walk respectively from the centre of the Application Site.

5.200. In addition to bus services, Deansgate-Castlefield Metrolink stop is situated a c. 450m walk to the north of the Application Site. All seven Metrolink lines stop at Deansgate-Castlefield, providing access to a wide array of locations across Greater Manchester. Deansgate Railway Station is also located c. 400m to the north of the site providing frequent services to regional destinations including Liverpool and Manchester Airport.

5.201. The Site is therefore well located to take advantage of the excellent existing public transport facilities, including bus, Metrolink and rail, in addition to walking and cycling opportunities, which will provide viable alternatives to travel by car.

Method of Assessment

5.202. The assessment methodology will consist of the following key stages:

- Establishment of baseline conditions;
- Assessment of demolition and construction effects;
- Assessment of operational effects; and
- Assessment of residual and cumulative effects.

5.203. The proposed EIA scenario will test the work case scenario as follows:

- Scenario 5: Scenario 4 (Phases A and B) + Cumulative Developments.

5.204. Traffic data will be utilised for the agreed study area to inform the baseline conditions. The development flows would be derived from the TA.

5.205. A committed development schedule has been prepared to inform Scenario 5 above. Only those developments that would have a material impact in the study area will be included in the assessment. These scenarios will represent the cumulative assessment.

5.206. The extent of the study area will be defined using a combination of IEA Guidelines and the extent of the network being considered as part of the TA. Locations on the highway network surrounding the Application Site will be identified and assessed in terms of the potential impact of the Proposed Development relative to baseline traffic flows, considering the potential for both arriving and departing vehicles at the Application Site.

5.207. The environmental impacts of traffic generated by the Proposed Development will be assessed in line with the criteria set out in the IEA Guidelines, which provide two broad rules to define the need for an environmental impact assessment:

- Highway links where traffic flows will increase by more than 30% (or the number of Heavy Goods Vehicles (HGVs) will increase by more than 30%); and
- Any other specifically sensitive areas where traffic flows have increased by 10% or more.

5.208. These thresholds will be used to identify the links and junctions where an assessment of the potential impacts of the Proposed Development on driver delay, public transport users, pedestrian delay and amenity, fear and intimidation, severance, collisions and road safety, and hazardous loads will be required.

5.209. In accordance with the IEA Guidelines, the impact of traffic is dependent upon a wide range of factors, including:

- Volume of traffic;
- Traffic speeds and operational characteristics; and
- Traffic composition (e.g. percentage of heavy goods vehicles).

5.210. Receptors will comprise pedestrians, cyclists, public transport users and drivers affected by the impacts of traffic generated by the Proposed Development.

5.211. The sensitivity of each receptor in the study area will be defined on the following scale, with reference to the IEA Guidelines and the local context of each receptor:

- Very high;
- High;
- Medium;
- Low; and

- Negligible.

5.212. The magnitude of change (impact) resulting from the Proposed Development, will be assessed using the following scale, based on the assessments contained within the TA and with consideration to relevant guidance:

- Major;
- Moderate;
- Minor;
- Negligible; and
- No change.

5.213. As shown in table 5.20 below, determining the classification of effects will be undertaken using professional judgement that underpin the attribution of significance. Each effect will be assessed against the sensitivity of the receptor and the magnitude of change, as shown in the table below. Where more than one effect classification exists for any given scenario (e.g. slight or moderate), professional judgement will be used to assign a single effect classification.

Table 5.20: Matrix for Classifying Effects

		Magnitude of Change (Impact)				
		No Change	**Negligible**	**Minor**	**Moderate**	**Major**
Sensitivity/ Value	**Very High**	Neutral	Slight	Moderate or Large	Large or Very Large	Very Large
	High	Neutral	Slight	Slight or Moderate	Moderate or Large	Large or Very Large
	Medium	Neutral	Neutral or Slight	Slight	Moderate	Moderate or Large
	Low	Neutral	Neutral or Slight	Neutral or Slight	Slight	Slight or Moderate
	Negligible	Neutral	Neutral	Neutral or Slight	Neutral or Slight	Slight

5.214. In accordance with EIA Regulations, the likely environmental effects of the Proposed Development will be identified and their significance determined. Evaluation of their significance will be based upon specific criteria for each type of receptor and impact. This process will consider the following:

- Impact likelihood, extent and magnitude;
- Impact nature (whether beneficial or adverse, direct or indirect, primary or secondary, permanent or temporary);
- Importance and sensitivity of the environmental receptor;
- The number of receptors that are impacted;
- Impact duration (whether short, medium or long term); and
- Whether it is a stand-alone impact or cumulative.

5.215. The following scale of significance will be adopted for the effects, noting whether the effects will be permanent or temporary, direct or indirect, short, medium or long-term, and significant or not significant

- Major Beneficial;
- Moderate Beneficial;
- Minor Beneficial;
- Neutral;
- Minor Adverse;
- Moderate Adverse; and
- Major Adverse.

5.216. Effects that are classified as moderate or above are considered to be significant. Effects classified as below moderate are considered to be not significant.

Summary of Assessment Scope

5.217. The table below summarises the traffic and transportation impacts and potential effects to be assessed during the construction and operational phases of the development in the ES:

Table 5.21: Summary of Assessment Scope

Receptor	Impact	Potential Effect	Scoped In / Out
Pedestrians and Cyclists	Changes in traffic flows Changes in traffic speeds Changes in traffic composition	Pedestrian delay Pedestrian amenity Fear and intimidation Severance Collisions and road safety	Scoped In
Public Transport Users	Changes in traffic flows Changes in traffic speeds Changes in traffic composition	Driver delay Collisions and road safety	Scoped In
Drivers	Changes in traffic flows Changes in traffic speeds Changes in traffic composition	Driver delay Collisions and road safety Hazardous loads	Scoped In (except hazardous loads, which is Scoped Out)

5.218. The ES will identify any mitigation measures necessary to address any significant effects during the construction and operational phases of the Proposed Development.

5.219. The ES will assess the potential environmental effects, taking account of any mitigation measures proposed, to assess the residual significance of the environmental effects.

Wind Microclimate

Introduction

5.220. The objective of the proposed wind microclimate study will be to determine the impact of the Proposed Development on the pedestrian level wind environment across the Site and its surroundings. The wind assessment will consider the effect of the surrounding context and will pay particular attention to wind effects in open amenity spaces, building entrances and pedestrian routes to determine the level of compliance against the recommended standards.

Baseline Conditions

5.221. The urban density of the area surrounding the Site of the Proposed Development will affect the wind conditions within and in the vicinity of the Proposed Development itself. The surrounding context and the nature of the terrain upstream of the Site do in fact influence the strength, the level of turbulence as well as the local directionality of the winds that are approaching the site of the Proposed Development. For this reason, modelling and studying these conditions is an important step of the wind microclimate assessment. The baseline assessment will be carried out as a representation of the existing site conditions, i.e. the existing building(s) on the Site in the context of the existing surroundings.

5.222. Any buildings under construction within 500m from the Site will be considered as completed as part of the baseline assessment, unless instructed otherwise by the planning/EIA team. This includes the following schemes:

- 2-4 Chester Road – 113870/FO/2016
- Deansgate Square – 111719/FO/2016/C1
- Crown Street Phase 1 (Elizabeth Tower and Victoria Residence) – 119806/FO/2018
- Crown Street Phase 2 (excluding school) – 126668/FO/2020
- Viadux - 126868/JO/2020

5.223. The baseline assessment will then be used as a reference point from which the magnitude of change will be measured once the Proposed Development is assessed under equal conditions.

5.224. Any schemes with planning consent (for which construction has not commenced) or are subject to planning consent and are within 500m from the Site will be considered as part of the cumulative assessment. This includes the following schemes:

- 10-12 Whitworth Street – 111003/FO/2016/C1;
- Plot H, GJS Framework – 129406/FO/2021;
- Transition – 116850/FO/2017;
- 1 Alpha Place – 120113/FO/2018;
- Plot 9, First Street – 125833/FO/2019;
- Plot 11, First Street – 125573/FO/2019;
- 325 Deansgate – 125804/FO/2019;
- Hotspur Press – 120635/FO/2018;
- One City Road – 128002/FO/2020;
- Plot G, 34 Great Jackson Street – 129273/FO/2021; and
- 2-4 Whitworth Street – 126308/FO/2020.

Method of Assessment

5.225. A qualitative experience-based assessment will be used to summarise wind conditions expected at the Site during the construction stage.

5.226. A quantitative assessment of the existing wind environment at the Site will be used to establish the 'Baseline' scenario. This will be followed by a quantitative assessment of the Proposed Development modelled within the existing surroundings. A further quantitative assessment of the Proposed Development will include the consented developments to determine the cumulative effects.

5.227. The phasing sequence for the Proposed Development has been defined as:

- Phase A – Tower F2, plus F2 basement car parking, landscaping and access.
- Phase B – Tower F1, plus F1 basement car parking, landscaping and access.

5.228. In the context of the wind microclimate assessment, the basement car parking will not be included in the area of study. The assessment of the wind microclimate impacts comprises the following five (5) scenarios:

- *Scenario 1:* Existing baseline
- *Scenario 2:* Phase A;
- *Scenario 3:* Scenario 2 + Committed Developments;
- *Scenario 4:* Phases A and B; and
- *Scenario 5:* Scenario 4 + Cumulative Developments

5.229. The methodology to be adopted for the study incorporates Computational Fluid Dynamics (CFD) modelling to predict the wind field within and in the vicinity of the Proposed Development.

5.230. CFD as a tool for pedestrian wind modelling is well validated against wind tunnel tests and real-world data and is often considered advantageous due to its advanced visualization and domain wide measurement capabilities. Also, CFD is performed at full scale with wind speeds calculated at tens of millions of discrete points, allowing for large amount of data to be used for the assessment of the wind microclimate conditions.

5.231. Like any other tool, it has its own limitations. However, good quality CFD is increasingly becoming an accepted tool in modern standards and guidance documents (e.g. the "Wind Microclimate Guidelines" published by the City of London in 2019). The CFD simulations provide high spatial resolution/granularity for coverage of the Site area and features good visualization capabilities to help explain complex aerodynamic flow features and results to the general public.

5.232. The CFD simulations will be used to quantify the local wind speeds within and in the vicinity of the Site of the Proposed Development at street level for a comprehensive range of wind directions. In order to assess the level of wind comfort and safety across balconies on adjacent existing buildings, detailed (as opposed to massing) information about such spaces (e.g. details of the 'as built' balustrades) would be required. As such information is in general not publicly available, the undertaking of such assessment would be impractical.

5.233. Long-term wind records from Manchester Airport will be used to develop a site-specific wind climate model. In order to account for the differences in terrain surrounding the weather station at Manchester Airport and the project site, adjustments to the wind records will be made using the wind model proposed by ESDU, an engineering advisory organisation based in the UK.

5.234. The local wind speeds obtained from the CFD simulations will then be combined with the site-specific wind climate model to determine the probability of exceedance of pre-defined wind speed thresholds.

5.235. In order to assess the suitability of wind conditions within and in the vicinity of the Site of the Proposed Development, the LDDC version of the Lawson criteria - which associates the probability of exceedance of wind speed thresholds to a range of pedestrian activities - will be used.

5.236. The Lawson Criteria stipulates that for the comfort and safety assessment of wind effects, it is not only the velocity of wind that is considered but also the frequency of occurrence of these velocities. The frequency of occurrence is used as an indicator of the likely duration of wind speeds. The criteria provide ranges of acceptability to maintain pedestrian comfort for different activities and relate frequency of occurrence to the hourly average wind speed ranges. The criteria ranges for the comfort assessment are set out in the table below.

Table 5.22: Pedestrian Comfort and Wind Speeds

Comfort Category	Speeds not to be exceeded by more than 5% of the time	Description
Sitting	4 m/s	Light breezes desired for outdoor restaurants and seating areas where one can read a paper or comfortably sit for long periods.
Pedestrian Standing	6 m/s	Gentle breezes suitable for main building entrances, pick-up/drop-off points and bus stops.
Pedestrian Leisure Walking	8 m/s	Moderate breezes that would be appropriate for strolling along a city/town centre street, plaza or park.
Business Walking	10 m/s	Relatively high speeds that can be tolerated if one's objective is to walk, run or cycle without lingering.
Uncomfortable	>10 m/s	Winds of this magnitude are considered a nuisance for most activities, and wind mitigation is typically recommended.

5.237. The Lawson method also identifies a safety criterion to identify those areas where someone could find walking difficult, or even stumble and fall. The Lawson criteria define threshold wind speeds not to be exceeded for more than 0.025% of the year. These are particularly strong winds that could cause people to have difficulties while walking and also stumble or fall. The safety criterion is set out in the table below.

Table 5.23: Lawson method threshold wind speeds

Safety Rating	Threshold Mean-hourly Wind Speed Exceeded Once Per Annum (0.025%)	Potential effects	Development Constraints
S15 - Unsuitable for the general public	>15 m/s	Less able and cyclists find conditions physically difficult.	S15 threshold not to be exceeded in areas accessible to the general public: sitting areas, standing areas, leisure walking areas. Mitigation required

S20 - Unsuitable for able-bodied	>20 m/s	Able-bodied persons find conditions difficult. Physically impossible to remain standing during gusts.	Threshold not to be exceeded in areas with limited public access, e.g. maintenance areas and carparks.

5.238. As the Lawson criteria was specifically derived for pedestrian activities, this assessment will only concentrate on assessing areas accessible to pedestrians.

5.239. A detailed review and assessment of the risk associated with wind-induced overturning moments of high-sided vehicles will not be covered by this assessment. Whilst the various mechanisms around wind-induced overturning moments of high-sided vehicles are well-understood in the context of large road bridges, at present there are no guidelines in the UK specifying how an assessment of such risk should be derived in the context of an urban setting.

5.240. To determine the significance of the effect of the Proposed Development on the wind environment, a comparison can be made with the baseline conditions. However, because the pedestrian use of the Proposed Development will change from that of the existing site, the assessment will also be based on the suitability of the different areas of the Proposed Development for the desired pedestrian use. The likely significance of effects will be based on the following factors:

- The magnitude of change of the wind environment.
- Compliance with the Lawson criteria.
- The sensitivity of the receptor.

5.241. The following sensitive receptor locations have been identified and will be considered within the EIA:

- *High Sensitivity*: areas intended for siting and standing (e.g. benches, restaurants and bars, building entrances).
- *Medium Sensitivity*: areas intended for leisure walking (i.e. commercial or residential streets).
- *Low* or *Negligible Sensitivity*: areas intended for business walking (e.g. streets leading to back-of-the-house or maintenance entrances, areas intended for car parks and high-speed roads) and roof-tops only accessible for maintenance.

5.242. The magnitude of impact will be categorised as major, moderate, minor, negligible or Neutral using professional judgement based on the change in velocity observed from the 'Baseline Scenario'. The criteria for determining the magnitude of impact for the pedestrian comfort and safety assessments are summarised in the tables below.

Table 5.24: Magnitude of impact for the pedestrian comfort and safety assessments

Change in Lawson Comfort Criteria Category		Suitable for Intended Use	Unsuitable for Intended Use
Wind Conditions increase/decrease by ≥ 1 category		Negligible / Moderate	Major
Wind Conditions remain within the same comfort category		Negligible	Negligible
Change in Lawson Safety Criteria Category	**Suitable for all pedestrians**	**Unsuitable for general public (S15)**	**Unsuitable for all pedestrians (S20)**
Wind conditions remain within same safety category	Negligible	Negligible	Negligible

Wind conditions increase/decrease to a new safety category	Major	Moderate / Major	Major

5.243. The wind microclimate conditions of the new receptors created as part of the Proposed Development will be assessed on the basis of their level of adherence to the Lawson Criteria only. This is because the magnitude of change from a baseline position does not apply, as it does to an existing receptor, since there is no baseline. The criteria for determining the impact of the Proposed Development on the new receptors both for pedestrian comfort and safety within the Site are listed in the tables below.

Table 5.25: Criteria for determining pedestrian comfort and safety impact

Lawson Comfort Criteria Category	Suitable for Intended Use	Unsuitable for Intended Use
Wind conditions are ≥ 1 category windier/calmer than desired	Moderate	Moderate
Wind conditions within desired category	Negligible	N/A

Lawson Safety Criteria Category	Suitable for all pedestrians	Unsuitable for general public (S15)	Unsuitable for all pedestrians (S20)
Wind conditions at new receptor	Negligible	Major	Major

5.244. Where the results of the assessment identifies areas where the recommended standards are not met or where the suitability exceeds that of the intended use, wind mitigation measures will be introduced in order to achieve the required level of safety and / or comfort and / or limit the adverse effect of the Proposed Development and an assessment of the residual effects made.

Summary of Assessment Scope

5.245. Both buildings and terrain upstream of the Site of the Proposed Development can affect the local speed and direction of the wind flow. In the absence of non-synoptic wind events (e.g. thunderstorms), the strength of wind speed typically increases with height. In an urban context wind speeds at pedestrian level are therefore generally low compared to that of upper-level winds. However, taller buildings can alter this: downdrafts from tall buildings are in fact well known for increasing the level of windiness at street level.

5.246. The likely significant effects relating to wind microclimate to be assessed as part of the EIA are outlined in the following Table:

Table 5.26: Summary of Assessment Scope

Receptor	Impact	Potential Effect	Scoped In / Out
Pedestrians and cyclists on cycle paths in the vicinity of the Site	Significant	Temporary effects on pedestrians and cyclists on cycle paths in the vacinity of the Site due to temporary changes in the local wind environment during the	Scoped In

		phased construction of the development	
Pedestrians and users of external spaces within the site and the surrounding area	Significant	Long-terms effects on the relative pedestrian and user comfort on completion of the Proposed Development	Scoped In
Pedestrians and users of external spaces within the site and the surrounding area	Significant	Long-term effects on pedestrian and user safety on completion of the Proposed Development	Scoped In
Cyclists on cycle paths in the vicinity of the Site	Significant	Long-term effects on cyclist safety on completion of the Proposed Development	Scoped In

Socio-Economics

5.247. This section of the Scoping Report has been prepared by Deloitte, in consultation with Ekosgen. The proposed ES chapter will be prepared by Ekosgen and would assess the likely significant effects of the Proposed Development with respect to the socio-economic environment. The study area for assessment will be defined on two levels:

- Likely effects on the Site and immediate surrounds, representing the 'Site' scale;
- Likely effects on the area within a 7-mile radius of the Site, representing the 'local sub-regional' scale.

5.248. A 7-mile radius study area is considered suitable for a densely populated urban area, and is based on advice set out by English Partnerships, now known as Homes England. As more information emerges, the study area for assessment may be redefined to better suit the characteristics of the local environment.

5.249. Socio-economic effects of the Proposed Development are anticipated to include the following topics:

- Population;
- Employment and GVA;
- Housing;
- Local Authority Income Effects;
- Local expenditure;
- Education and training;
- Healthcare;
- Crime; and
- Open space, recreation and amenity.

5.250. The assessment will consider direct and indirect construction phase (temporary) and operational phase (permanent) effects on the local and regional environment.

5.251. Baseline data will be gathered to ascertain the socio-economic characteristics of the study area. These will be gathered from a range of recognised sources, such as the Office for National Statistics, Annual Population Survey, Business Register and Employment Survey, 2011 Census, Labour Force Survey, and Experian Micromarketer. Data relating to schools within the catchment area and their capacity will be sourced from the Department for Education requested from the relevant departments of MCC.

5.252. The most up-to-date data will be used where available; the Local Authority is invited to comment on any relevant sources of information to inform the assessment. Data for both the county and for the city region will be considered.

5.253. The assessment will utilise both quantitative and qualitative methods to consider baseline characteristics and likely impacts. Regard will be given to policy guidance and strategies within the wider area where relevant.

5.254. There are no specific technical criteria to classify the significance of socio-economic effects. Therefore, professional judgement will be applied to consider effects in terms of their overall impact on the study area at various scales.

5.255. All Committed Developments identified within Appendix 2 are relevant to this Chapter.

5.256. This Chapter will test Scenario 4 (Worst Case Scenario) whilst Scenario 5 will be considered separately as part of the cumulative scenario.

5.257. Table 5.27 below summarises the potential socio-economic impacts which have been scoped in to be assessed within the ES. An initial judgement has been made to assess what the potential effects although the final assessment will be based on the review of baseline conditions and a detailed assessment of proposition and impacts and therefore may differ.

Table 5.27: Summary of Socio-Economic Impact Assessment Scope

Topic	Impact	Potential Effect	Scoped-in
Population	Changes to temporary and permanent population within the area. Changes in employment opportunities available to local population.	Potential effects on local population.	In
Housing	Increased supply of houses onto local market during operation.	Potential effects for housing supply in the area.	In
Local Expenditure	Changes in local expenditure during construction and operational phase.	Potential effects on local expenditure.	In
Local Authority Income Effects	The introduction of new residential properties will generate additional	Uplift in Council Tax Income.	In

Topic	Impact	Potential Effect	Scoped-in
	Council Tax income for the local authority.		
Employment and GVA	Increases in direct and indirect employment opportunities and economic output during construction and operation. Changes in employment opportunities available to local population.	Temporary creation of employment and uplift in economic output during construction Short and long term increases in operational employment.	In In
Education and Training	Increases in direct and indirect training opportunities during construction. Changes to availability of school places due to increased population.	Temporary creation of training during construction. Additional demand on Impact upon local school provision.	In
Healthcare	Changes in the availability of healthcare services and facilities due to increased population.	Additional demand on healthcare services.	In
Crime	Impact upon vibrancy, natural surveillance and safety.	Reduce incidences of crime.	In
Open Space, Recreation and Amenity	Increased population within local area during construction and operation requiring access to open space and amenity facilities.	Increased use of open space, leisure and amenity facilities.	In

6. Scoping Summary

6.1. This Scoping Report has been prepared in order to assist the Local Planning Authority (LPA) with the adoption of a Scoping Opinion under Regulation 15 of the Town and Country Planning (EIA) (England) Regulations 2017 (as amended) (the "EIA Regulations").

6.2. As required by Regulation 15, paragraph 2, this report contains:

- a plan sufficient to identify the land;
- a brief description of the nature and purpose of the development, including its location and technical capacity; and
- an explanation of the likely significant effects of the development on the environment.

6.3. The report has provided details of the possible significant effects of the Proposed Development on the environment. Full assessment will be undertaken prior to the submission of a planning application to assess the significance of the effects.

6.4. Table 6.1 provides a summary of the scoping exercise undertaken and the technical disciplines that will be considered within the ES. It also identifies what supplementary technical reports will be prepared and submitted as standalone documents in support of the application.

Table 6.1 - Scoping Summary

	ES Chapter	Non EIA Assessment	Consultant
Planning Policy Context	×	✓	Deloitte
Air Quality	✓	×	Ensafe
Agricultural Circumstances	×	×	N/A
Archaeology	×	✓	Salford Archaeology
Daylight, Sunlight, and Overshadowing	✓	×	GIA
Ecology and Biodiversity	×	✓	ERAP
Arboriculture	×	✓	Godwins
Television Interference	×	✓	PagerPower
Ground Conditions	×	✓	Coffey
Aviation	×	✓	PagerPower
Heritage	×	✓	Stephen Levrant Heritage Architecture

	ES Chapter	Non EIA Assessment	Consultant
Noise & Vibration	✓	×	Matt Fisher Acoustics
Socio-Economic Issues	✓	×	Ekosgen
Human Health	✓	×	Deloitte
Climate Change	✓	×	WSP
Townscape & Visual Impact	✓	×	Chris Burnett Associates
Traffic and Transport	✓	×	Curtins
Water Resources, Drainage & Flood Risk	×	✓	Curtins
Wind Microclimate	✓	×	WSP
Solar Glare	✓	×	GIA

6.5. Scoping of significant effects is preliminary and further work will be undertaken as part of the detailed technical analysis.

6.6. The Proposed Development will be phased, as detailed in Chapter 3, in order to facilitate the delivery of each part of the scheme. Within this context, the need to assess each potential scenario, in order to understand and consider potential significant environmental effects, has been carefully reviewed by each of the technical specialist EIA consultants in preparing their scoping input within Chapter 5.

6.7. The possible EIA scenarios for consideration are:

- Scenario 1: Existing baseline
- Scenario 2: Phase A;
- Scenario 3: Scenario 2 + Committed Developments;
- Scenario 4: Phases A and B; and
- Scenario 5: Scenario 4 + Committed Developments.

6.8. Table 6.2 presents a summary of which EIA scenarios each EIA consultant proposes to undertake in their assessment.

Table 6.2 - Summary of EIA scenarios

Chapter	Consultant	Scenarios Tested	Comments
Air Quality	Ensafe	Scenario 1; Scenario 4; and Scenario 5.	Please note the future year scenarios (Scenarios 4 & 5) will be considered in conjunction with the anticipated 2027 baseline opening year conditions. The future baseline represents anticipated traffic flows for 2027, including committed development flows. This

Chapter	Consultant	Scenarios Tested	Comments
			scenario does not include development generated flows in order to make a judgement of potential impacts on existing conditions as a result of the Proposed Development. With regards to associated Air Quality impacts, the worst-case scenario provides an assessment of maximum anticipated development traffic generation and thus a worse-case scenario will be assessed.
Climate Change	WSP	Scenario 1; and Scenario 4.	In the future embodied carbon of the Proposed Development will remain the same but operational emissions will be reduced significantly, so emissions will improve and therefore we can only calculate the worst case scenario for the future baseline. The assessment will not consider any specific Committed Developments relevant to the Proposed Development because GHG are not spatially contained, the assessment will consider the cumulative effect of all GHG that cause climate change and the assessment of the GHG due to the Proposed Development contextualises GHG comparing these to the UK Carbon Budgets and RIBA 2030 Climate Change targets .For this reason the ES Chapter will not consider a standalone cumulative scenario.
Daylight, Sunlight and Overshadowing	GIA	Scenario 1; and Scenario 5.	Schemes under construction and with planning consent but not under construction have been included in the baseline scenario in line with the BRE Guide, and so no separate technical assessment of the cumulative impact is required. The scenarios represent a worst case. This is the appropriate method to determine the daylight and sunlight impacts to surrounding receptors as the baseline scenario already considers any impact on the existing surrounding receptors resulting from consented developments. This approach is supported by the BRE. As Hulme Park is located to the south of the Proposed Development, the path of

Chapter	Consultant	Scenarios Tested	Comments
			the sun will continue to cast sunlight onto the area throughout the day. As such, there is no potential for overshadowing and so it will not be assessed.
Solar Glare	GIA	Scenario 4.	For solar glare, the worst-case scenario is portrayed by the complete and operational Proposed Development, where all reflective facade materials have been installed and any covers, films or hoarding used during the construction period have been removed. It is unlikely that solar reflections would be generated by the installed glazing/cladding of Phase A in isolation due to the proposed construction programme overlapping, whereby construction of Phase B would be advanced by the time Phase A is completed. Based on a common practice approach to portray the worst-case scenario, the cumulative effect will not be considered as neighbouring Committed Developments can block sunlight reaching the facades of the Proposed Development and/or obscure the Proposed Development from the viewpoints to be assessed. However, the following committed development are included within the surrounding context as their completed form due to their construction having commenced: 1) 2-4 Chester Road; 2) Deansgate Square; 3) Crown Street Phase 1 (Elizabeth Tower and Victoria Residence); 4) Crown Street Phase 2 (excluding the School); and 5) Viadux.
Human Health	Assessor TBC	Scenario 5.	Scenario 5 (Worst Case Scenario) only as the impact from one phase of development will not outweigh the total impact from the whole development. Therefore, no greater significant effects

Chapter	Consultant	Scenarios Tested	Comments
			will arise from a single phase being delivered.
Noise and Vibration	Fisher Acoustics	Scenario 5.	Given the relatively small distances from Phase A and Phase B to the respectively closest noise sensitive receptors, and the distance between Phase A, Phase B and the Committed Developments, the noise impact and any associated mitigation measures for Scenarios 2, 3, 4, and 5 are expected to be the same. It is therefore intended that only Scenario 5 is tested.
Townscape and Visual Impact	Chris Burnett Associates	Scenario 5.	The scenario which is the focus of the TVIA is the worst case scenario which is Scenario 5. Other scenarios have been discounted as the effects of the construction of one tower on this Site are predicted to be more or less the same as two towers, hence it is appropriate to test the worst case scenario.
Traffic and Transport	Curtins	Scenario 5.	A committed development schedule has been prepared to inform Scenarios 5 above. Only those developments that would have a material impact in the study area will be included in the assessment. These scenarios will represent the cumulative assessment.
Wind	WSP	Scenario 1; Scenario 2; Scenario 3; Scenario 4; and Scenario 5.	The methodology to be adopted for the study incorporates Computational Fluid Dynamics (CFD) modelling to predict the wind field within and in the vicinity of the Proposed Development.
Socio-Economics	EKOSGEN	Scenario 5.	Scenario 5 (Worst Case Scenario) only as the impact from one phase of development will not outweigh the total impact from the whole development. Therefore, no greater significant effects will arise from a single phase being delivered.

Julie Roscoe
Director of Planning, Building Control and Licensing
PO Box 532
Town Hall
Manchester M60 2LA

Contact: Lucy Harrison
Tel: 0161 234 5795
Email:
lucy.harrison1@manchester.gov.uk

12 August 2021

Our reference: Plot F Great Jackson St

Deloitte LLP
The Hanover Building
Corporation Street
Manchester
M4 4AH

FAO: Jennifer Chatfield

Dear Ms Chatfield

Environmental Impact Assessment Regulations, the Town and Country Planning (EIA) (England) Regulations 2017 (as amended) (the "EIA Regulations")
Opinion on Scope of an Environmental Statement under Regulation 15
Plot F, Great Jackson Street, Manchester

I write further to your request in respect of the above dated 28 June 2021.

It is noted that the site is approximately 0.88ha and is situated on the north side of Great Jackson Street. It is bounded by Great Jackson Street, Deansgate Square to the north, the Boatmans apartments to the east and industrial units to the west. The site is occupied by a low-rise industrial unit and construction compound with associated car parking (supporting the construction of Deansgate Square). Access to the site is from Great Jackson Street and Owen Street (although this section of Owen Street is currently not accessible to general traffic.

The site is included within the Great Jackson Street Strategic Development Framework (GJS Framework) area, which was originally endorsed in 2007 and was updated in 2015 and 2018. The updated Framework forms a material planning consideration in the determination of any planning application within its boundary. The overall aim of the updated Framework is to create a high quality residential neighbourhood with high value homes that would support the growth

of the economy. It would be possible to create a vibrant, safe, secure and sustainable community incorporating a range of dwelling types, providing an attractive place to live. This would be supported and underpinned by the creation of a high quality environment including areas of public space, shared/private amenity space and new pedestrian linkages and connections. The area around the site is characterised by a mixture of residential, light-industrial and commercial uses.

The proposal is for redevelopment of the site following demolition of the existing building to provide a residential scheme comprising 988 apartments within two 51 storey towers with public and private realm, internal residential amenity uses (including a gymnasium), private car parking within a multi-storey basement, and cycle parking facilities.

In coming to a formal opinion on the scope of the Environmental Impact Assessment (EIA), Manchester City Council, as Local Planning Authority, has taken into account the supporting information contained within your Scoping Report.

I have now had a chance to consider your scoping request and I outline my response below. The scoping report has been the subject of consultation in accordance with the EIA Regulations.

Overall, I can confirm that the content of the submitted 'Formal Scoping Opinion Request' is considered to be appropriate and will form a generally appropriate structure for the Environmental Statement (ES). This is also reflected in the nature of the consultation responses. You should note the specific points which have been made and particular regard should be given to these.

The following consultees were asked to comment on your request and full copies of the comments from those who responded have been provided to you:

- Manchester City Council (MCC), Head of Regulatory and Enforcement Services (Environmental Health)
- MCC, Head of Engineering Services (Highways)
- MCC, Flood Risk Management Team
- MCC, Refuse and Sustainability Team
- MCC, City Centre Regeneration
- Greater Manchester Ecology Unit
- Greater Manchester Archaeological Advisory Service
- Environment Agency
- Greater Manchester Police
- Canal and Rivers Trust
- Transport for Greater Manchester (TfGM)
- Natural England
- Cadent Gas
- United Utilities
- Historic England
- Manchester Airport Safeguarding (MAGS)
- National Air Traffic Services (NATS)

Scoping Report

I have the following specific comments to make in respect of the scoping report:

Items Proposed to be Included as Technical Chapters and Scoped In

Air Quality

The comments within your scoping report are noted and are acceptable in terms of their consideration within the ES. In line with the advice from Environmental Health, you should incorporate the good practice principles into your assessment from the IAQM guidance. As this site contains parking you should include 20% EVCPs at the outset with cabling to all the other spaces. These should be a minimum of 7kW* (*Mode 3, 7kW (32A) single phase, or 22kW (32A) three phase, and for 50kW Mode 4 rapid charging may be required. British Standard BS EN 61851-1:2011 to be used (note this version is due to be replaced by BS EN 61851-1:2019 on 5 July 2022)).

Daylight, Sunlight and Overshadowing

The comments within your scoping report are noted and are acceptable in terms of their consideration in the ES. As the development site is located within a regeneration area, where other sites are likely to come forward for redevelopment in the near future, commentary should be given on whether there would be overshadowing or overlooking impacts that could impact on the viability of other sites coming forward at a later stage. The daylight and sunlight survey should include a statement/addendum to say what number of apartments in each building would be affected, how many of their windows would be affected and whether they are windows to single aspect rooms.

Noise and Vibration

The comments within your scoping report are noted and are acceptable in terms of their consideration within the ES. In line with advice from Environmental Health, you should provide an overheating assessment to be undertaken in line with the AVO Guide and alongside the noise and vibration assessment.

Socio-Economic Issues

The comments within your scoping report are noted and are acceptable in terms of their consideration within the ES.

Human Health

The comments within your scoping report are noted and are acceptable in terms of their consideration within the ES.

Climate Change

The comments within your scoping report are noted and are acceptable in terms of their consideration within the ES.

Townscape and Visual Impact

The comments within your scoping report are noted and are acceptable in terms of their consideration in the ES, although it should be noted that the list of schemes under paragraph 5.171 does not correspond to the list of committed developments under Appendix 2.

Traffic and Transport

The comments within your scoping report are noted and are acceptable in terms of their consideration in the ES. The Transport Assessment should include the matters set out in the consultation responses from MCC Highways and TfGM.

Wind

The comments within your scoping report are noted and are acceptable in terms of their consideration in the ES.

Solar Glare
The comments within your scoping report are noted and are acceptable in terms of their consideration in the ES.

Phasing Scenarios and Cumulative impacts

The phasing scenarios, cumulative effects assessment and the scope of developments listed within Appendix 2 of the Scoping Report are considered to be acceptable and there are no additional schemes that would need to be included at this time.

Items Proposed to be Scoped Out

Within your scoping opinion, you have identified the following items to be scoped out of the EIA:

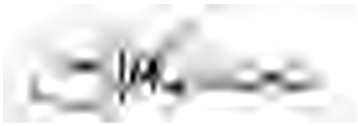
Agricultural Circumstances;
Ecology;
Arboriculture;
Television Interference;
Aviation;
Heritage;
Archaeology;
Water Resources, Flood Risk and Drainage; and
Ground Conditions.

Your comments on these matters are noted and the City Council is in agreement that these matters can be scoped out of the EIA. This is provided that the applications are supported by the appropriate documentation as detailed within your scoping report, including details of any mitigation to minimise any effects as a result of the development, and including any details raised by the statutory consultees in their responses.

As a result of consultation with statutory consultees at this time additional areas of work are not expected to form part of any EIA. However, the Local Planning Authority would also reserve the right to seek further information in connection with the Environmental Statement as matters arise.

Should you wish to discuss any of the above, please contact Lucy Harrison.

Yours sincerely



Julie Roscoe
Director of Planning, Licensing and Building Control

The Coal Authority
Resolving the impacts of mining

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG
T: 01623 637 119
E: planningconsultation@coal.gov.uk
www.gov.uk/coalauthority

For the attention of: Ms L Harrison - Planning Officer
Manchester City Council

[By email: lucy.harrison@manchester.gov.uk]

06 July 2021

Dear Ms Harrison

The Town and Country Planning (Environmental Impact Assessment) Regulations 2017 (as amended) (the "EIA" Regulations) - Request for Scoping Opinion

Plot F, Great Jackson Street

Thank you for your notification of 01 July 2021 on what relevant matters should be 'Scoped In' to any forthcoming Environmental Statement for the above site.

I have reviewed the site location plan against our coal mining information and can confirm that, whilst the site falls within the coalfield, it is located outside the Development High Risk Area as defined by the Coal Authority; meaning that there are no recorded coal mining legacy hazards at shallow depth that could pose a risk to land stability.

Accordingly, if you consider that the application is EIA development, there is no requirement for the applicant to consider coal mining legacy as part of their Environmental Impact Assessment. In addition, the Local Planning Authority will not need to consult us on any subsequent planning application for this site.

I hope that this is helpful however please do not hesitate to contact me if you require any further assistance with this matter.

Yours sincerely

D Roberts

Deb Roberts *M.Sc. MRTPI*
Planning & Development Manager

Disclaimer

The above consultation response is provided by The Coal Authority as a Statutory Consultee and is based upon the latest available data on the date of the response, and electronic consultation records held by The Coal Authority since 1 April 2013. The comments made are also based upon only the information provided to The Coal Authority by the Local Planning Authority and/or has been published on the Council's website for consultation purposes in relation to this specific planning application. The views and conclusions contained in this response may be subject to review and amendment by The Coal Authority if additional or new data/information (such as a revised Coal Mining Risk Assessment) is provided by the Local Planning Authority or the Applicant for consultation purposes.

Manchester City Council
Town Hall Albert Square
Manchester
Lancashire
M2 5DB

Our ref: SO/2021/121353/01-L01
Your ref: Plot F, Great Jackson Street

Date: 06 July 2021

FAO: Lucy Harrison

Dear Madam

TOWN AND COUNTRY PLANNING (ENVIRONMENTAL IMPACT ASSESSMENT) REGULATIONS 2017 (AS AMENDED) (THE "EIA" REGULATIONS) - REQUEST FOR SCOPING OPINION

INTENDED FULL PLANNING APPLICATION FOR DEMOLITION OF EXISTING ON-SITE STRUCTURES AND ERECTION OF TWO 51 STOREY TOWER BLOCKS INCLUDING 3 STOREY BASESMENT FEATURES, ASSOCIATED LANDSCAPING AND INFASTRUCTURE

PLOT F, GREAT JACKSON STREET - NATIONAL GRID REFERENCE: SJ8340997250

Thank for requesting an Environmental Impact Assessment (EIA) scoping opinion from the Environment Agency (EA) for the development proposal detailed above. Referral for this EIA scoping was received on the 1st July 2021.

In order to inform our scoping opinion below we have reviewed the following reporting provided by Manchester City Council (MCC) via file transfer:

- Environmental Impact Assessment (EIA) Scoping Report – Plot F, Great Jackson Street. Prepared by Deloitte on the behalf of Renaker Build Ltd. Date: June 2021.

Environmental Agency Position

Having reviewed the reporting detailed above, we acknowledge the determination by the planning agent that the proposal presented meets the threshold /criteria of a 'Schedule 2' defined under The Town and Country Planning (Environmental Impact Assessment) Regulations 2017 and therefore will be required to be subject to EIA in virtue of the anticipated number of dwellings (988 stated) to be created.

Further to the above, having reviewed the reporting provided, we can confirm that we have no objections to the proposed scope of the EIA, for matters within planning remit and focus of the EA. We acknowledge that the forthcoming planning application will be supported by a Flood Risk Assessment (FRA) and Drainage Strategy as well as further Ground Investigation Reporting (Phase 2 as minimum) which will be prepared separately to the forthcoming Environmental Statement.

Due to the potential sensitivity of controlled waters in this location (principal aquifer / proximity to vulnerable surface watercourse), we ask that we are consulted on any subsequent planning application made for this development proposal.

Finally, we would like to take this opportunity to provide the applicant / agent with the following informatives which should be considered going forward.

Informatives

Waste Water / Foul Drainage Disposal

Government guidance contained within the national Planning Practice Guidance (Water supply, wastewater and water quality – considerations for planning applications, paragraph 020) sets out a hierarchy of drainage options that must be considered and discounted in the following order:

1. Connection to the public sewer
2. Package sewage treatment plant (adopted in due course by the sewerage company or owned and operated under a new appointment or variation)
3. Septic Tank

Foul drainage should be connected to the main sewer. Where this is not possible, under the Environmental Permitting Regulations 2010 any discharge of sewage or trade effluent made to either surface water or groundwater will need to be registered as an exempt discharge activity or hold a permit issued by the Environment Agency, addition to planning permission. This applies to any discharge to inland freshwaters, coastal waters or relevant territorial waters.

Please note that the granting of planning permission does not guarantee the granting of an Environmental Permit. Upon receipt of a correctly filled in application form we will carry out an assessment. It can take up to 4 months before we are in a position to decide whether to grant a permit or not.

Domestic effluent discharged from a treatment plant/septic tank at 2 cubic metres or less to ground or 5 cubic metres or less to surface water in any 24 hour period must comply with General Binding Rules provided that no public foul sewer is available to serve the development and that the site is not within an inner Groundwater Source Protection Zone.

A soakaway used to serve a non-mains drainage system must be sited no less than 10 metres from the nearest watercourse, not less than 10 metres from any other foul soakaway and not less than 50 metres from the nearest potable water supply.

Where the proposed development involves the connection of foul drainage to an existing non-mains drainage system, the applicant should ensure that it is in a good state of repair, regularly de-sludged and of sufficient capacity to deal with any potential increase in flow and loading which may occur as a result of the development.

Where the existing non-mains drainage system is covered by a permit to discharge then an application to vary the permit will need to be made to reflect the increase in volume being discharged. It can take up to 13 weeks before we decide whether to vary a permit.

Further advice is available at:

Septic tanks and treatment plants: permits and general binding rules

Surface Water Drainage / Sustainable Surface Water Management

Surface water run-off should be controlled as near to its source as possible through a sustainable drainage approach to surface water management (SuDS). SuDS manage surface water run-off by simulating natural drainage systems. Whereas traditional

Cont/d..

drainage approaches pipe water off-site as quickly as possible, SuDS retain water on or near to the site. As well as reducing flood risk, this promotes groundwater recharge, helps absorb diffuse pollutants, and improves water quality. Ponds, reedbeds and seasonally flooded grasslands can also be particularly attractive features within public open spaces.

SuDS involve a range of techniques including soakaways, infiltration trenches, permeable pavements, grassed swales, green roofs, ponds and wetlands. As such, virtually any development should be able to include a scheme based around these principles. In doing so, they'll provide multiple benefits and will reduce costs and maintenance needs.

Approved Document Part H of the Building Regulations 2010 establishes a hierarchy for surface water disposal, and encourages a SuDS approach. The first option for surface water disposal should be the use of SuDS, which encourage infiltration such as soakaways or infiltration trenches. In all cases, it should be established that these options are feasible, can be adopted and properly maintained and would not lead to any other environmental problems. For example, using soakaways or other infiltration methods on contaminated land carries groundwater pollution risks and may not work in areas with a high water table. Where the intention is to dispose to soakaway, these should be shown to work through an appropriate assessment carried out under Building Research Establishment (BRE) Digest 365.

Further information on SuDS can be found in:

- the CIRIA C697 document SuDS manual
- HR Wallingford SR 666 Use of SuDS in high density developments
- CIRIA C635 Designing for exceedance in urban drainage – good practice
- the Interim Code of Practice for Sustainable Drainage Systems – the Interim Code of Practice provides advice on design, adoption and maintenance issues and a full overview of other technical guidance on SuDS

Dewatering / Licence Requirements

Dewatering is the removal/abstraction of water (predominantly, but not confined to, groundwater) in order to locally lower water levels near the excavation. This can allow operations to take place, such as mining, quarrying, building, engineering works or other operations, whether underground or on the surface.

The dewatering activities on-site, if required for creation of basement structures / foundations, could have an impact upon local wells, water supplies and/or nearby watercourses and environmental interests.

This activity was previously exempt from requiring an abstraction licence. Since 1 January 2018, most cases of new planned dewatering operations above 20 cubic metres a day will require a water abstraction licence from us prior to the commencement of dewatering activities at the site. Dewatering requirements for each plot cannot be viewed in isolation.

More information is available on gov.uk: https://www.gov.uk/guidance/water-management-apply-for-a-water-abstraction-or-impoundment-licence#apply-for-a-licence-for-a-previously-exempt-abstraction

Cont/d..

Piling Methodology

Piling or other foundation designs using penetrative methods can result in risks to potable supplies from, for example, pollution/turbidity, mobilising contamination, drilling through different aquifers and creating preferential pathways.

In virtue of the above, an appropriate piling/foundation methodology for the development proposal should be identified and clearly detailed as part of any subsequent planning submission / evidence. The approach selected should be supported / presented within by a risk assessment report providing sufficient justification for the approach identified. To further assist with this matter we would recommend referring to 'The Environment Agency's approach to groundwater protection'.

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Please forward a copy of the informatives provided to the planning agent. Should you have any queries or questions, then please do not hesitate to contact me.

Yours faithfully

Mr Andy Davies
Sustainable Places Advisor
Direct e-mail andy.davies1@environment-agency.gov.uk

End

Scoping Opinion - Plot F, Great Jackson Street

Laura Miller <laura.miller@manchester.gov.uk>

Thu 22/07/2021 15:04

To: Lucy Harrison <lucy.harrison@manchester.gov.uk>

Hi Lucy,

I have looked at the scoping report.

I agree with ground conditions being scoped out.

Noise and Vibration and Air Quality have been scoped in. The noise chapter reflects our pre-planning discussions with Matt Fisher. In additional to a noise assessment we would also expect an overheating assessing to be undertaken in line with the AVO Guide, these assessments should be done alongside each other.

Air Quality – they will also need to incorporate the good practice principles in to their assessment from the IAQM guidance. As this site contains parking they will need to include 20% EVCPs at the outset with cabling to all the other spaces. These should be a minimum of 7kW*

*Mode 3, 7kW (32A) single phase, or 22kW (32A) three phase, and for 50kW Mode 4 rapid charging may be required. British Standard BS EN 61851-1:2011 to be used (note this version is due to be replaced by BS EN 61851-1:2019 on 5 July 2022).

Kind Regards

Laura

Laura Miller (MRes, MA, BSc(Hons))

Please note that due to working compressed hours Wednesdays are a non-working day for me, I will respond to your email when I return to the office

Environmental Protection Section
Environmental Health
Neighbourhoods Directorate
Manchester City Council

Telephone: 0161 234 5004
email: laura.miller@manchester.gov.uk
website: www.manchester.gov.uk

For the latest support and information about the coronavirus visit www.manchester.gov.uk/coronavirus

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I ❤ MCR

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Request for a formal opinion on the scope of an Environmental Statement (ES) Regulation 2017 (as amended) (the "EIA" Regulations): Plot F Great Jackson Street

(Flood Risk Management response – 13th July 2021)

The proposed development is situated within Flood Zone 1 Low Probability from the River Medlock. The Flood Map for Rivers and Sea can be viewed at: http://maps.environment-agency.gov.uk/.

The proposed development is generally within an area at very low - low risk of surface water flooding. The Flood Map for Surface Water can be viewed at: http://maps.environment-agency.gov.uk/.

MCC records suggest that the proposed development is within an area at low susceptibility to groundwater flooding.

MCC does not hold any recorded incidents of flooding within the site.

The area is situated within the Conurbation Core Critical Drainage Area and in accordance with the Manchester City Council SFRA at least a 50% reduction in surface water runoff should be provided through SUDS as part of any development which is situated on a brownfield site. A restriction to the greenfield 1 in 1 year run-off rate should be used for all greenfield areas.

Surface water management for the site needs to follow the drainage hierarchy:

- Infiltration into ground
- Connection to the watercourse
- Connection to discharge water sewer and as a last resort;
- Connection to the combined sewer.

Presence of Made Ground on site is suspected as per the 'Ground Conditions Report'. However, site investigation and percolation tests in line with BRE 365 Digest should be undertaken to assess feasibility of infiltration into ground as a potential method for surface water disposal.

Surface water should be managed to ensure there is no increased surface water from the proposed development and runoff from extreme events should be retained within the site such that the adjacent third party land is not affected.

The Government has strengthened planning policy on the provision of sustainable drainage systems (SuDS) for 'major' planning applications which was introduced on 6 April 2015 (Paragraph 103 of National Planning Policy Framework and Ministerial Statement on SuDS). As per the guidance issued by the Department of Communities and Local Government (DCLG), all 'major' planning applications being determined from 6 April 2015, must consider sustainable drainage systems. We would recommend that SuDS are drawn up within the site layout at the early stages of design.

The suitability of sustainable drainage systems should be assessed in accordance with paragraphs 051, 079 and 080 of the revised NPPF Planning Practice Guidance for Flood Risk and Coastal Change (http://planningguidance.planningportal.gov.uk/blog/ guidance/flood-risk-and-coastal-change/).

Sustainable drainage systems should be designed in line with national Non-Statutory Technical Standards for SuDS (https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/415773/sustainable-drainage-technical-standards.pdf) and local policies EN08, EN14 and EN17 of the Core Strategy.

Hydraulic calculations and drawings to support the design need to be provided along with proposed standards of operation and maintenance in accordance with paragraph 081 of NPPF Planning Practice Guidance.

Any proposed outfall to the River Medlock should be discussed and agreed with the Environment Agency as well as MCC LLFA. Any works within or adjacent to the River Medlock would require consent from the Environment Agency.

If surface water is to be discharged into a United Utilities sewer this should be agreed in principle with them.

Management and maintenance plan for the lifetime of the development which shall include the arrangements for adoption by any public body or statutory undertaker, or any other arrangements to secure the operation of the sustainable drainage scheme throughout its lifetime shall be submitted.

Greater Manchester Archaeological Advisory Service
School of Environment & Life Sciences
Room LG 20, Peel Building
University of Salford
Salford
M5 4WX

Lucy Harrison
Planning
Manchester City Council
PO Box 532
Town Hall
Manchester
M60 2LA

Date: 20th July 2021

Dear Lucy

Archaeological Consultation: Plot F, Great Jackson Street – Scoping Opinion

Thank you for consulting GMAAS on this Scoping Report.

The Scoping Report includes a section prepared by Salford Archaeology that addresses archaeology and examines the baseline conditions. GMAAS was consulted during the preparation of the document, which identifies the most significant industrial period remains relating to 19th-century workers' housing of several different types of plan form, and also highlights the potential for the site to retain archaeological remains deriving from the Roman occupation of the area. The report commits to producing a more detailed archaeological desk-based assessment, and suggests that any further archaeological mitigation works arising from this can be undertaken through a negative planning condition attached to consent. The argument is made that the archaeology is not significant enough to warrant preservation *in-situ* and therefore can be preserved by excavation record prior to development ground works commencing.

GMAAS concurs with this conclusion, and considers that the below-ground archaeology for the Roman period and 19th century has the potential to be of local to regional significance. GMAAS accept that the archaeology is unlikely to be of national significance, and is satisfied that archaeology can be scoped out of the EIA providing that a detailed archaeological desk-based assessment is submitted with the planning application. This should be coupled with a programme of intrusive archaeological investigation via evaluation trenching, which will inform the requirement for and nature of any further and more extensive, targeted archaeological excavation, post-excavation analysis, report writing, archive deposition and dissemination of the results. It would be good risk management and proper practice in accordance with the National Planning Policy Framework for the archaeological evaluation to be undertaken ahead of submittal of a detailed planning application.

Yours sincerely

Ian Miller
Heritage Management Director (Archaeology)
Tel: 07533 252 442

EIA Scoping Request - Plot F, Great Jackson Street

David Dutton <david.dutton@tameside.gov.uk>

Mon 12/07/2021 19:47

To: Lucy Harrison <lucy.harrison@manchester.gov.uk>

Hi Lucy

Hope you are well

I agree that ecology can be scoped out of the Environmental Impact Assessment. There are no high value ecological receptors likely to be impacted upon by this development.

The ecological report that has been provided would in my opinion remain valid given the negligible ecological value of the site until 2023

David Dutton
Ecologist
Planning
Planning and Transport
Growth

Tameside MBC | Twitter | Facebook | Instagram
Dukinfield Town Hall | King Street | Dukinfield | Tameside | SK16 4LA

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Lucy Harrison

From: Muniza Usmani
Sent: 06 July 2021 11:19
To: Lucy Harrison
Cc: Neil Bayliss-Rowe
Subject: FW: EIA Scoping Request - Plot F, Great Jackson Street

Hi Lucy

MCC Highways have reviewed the attached EIA scope and it is acceptable in principle; however, we would recommend that the following are also included in the Transport Assessment scope:

- Physical review of existing pedestrian and cycle routes, in terms of surface condition/ facilities (crossing points)/ footway-cycleway widths (extent to be agreed)
- Review of existing TROs/On-street car parking facilities and occupancy (extent to be agreed)

Also a minor point, the EIA scope is 500 pages so the final document is likely to be a lot longer so for ease of review the Transport Assessment should also be submitted as a separate standalone document.

Thanks you

Kind regards
Muniza Usmani
Engineer
Highways Service, Growth and Neighbourhoods Directorate

PLEASE NOTE: WORKING FROM HOME UNTIL FURTHER NOTICE, WORKING DAYS TUESDAY-FRIDAY

Email: m.usmani@manchester.gov.uk
Tel: 07939995063
Web: http://www.manchester.gov.uk

POSTAL ADDRESS: Manchester City Council, PO Box 532, Town Hall, Manchester, M60 2LA

From: Planning <Planning@manchester.gov.uk>
Sent: 01 July 2021 15:25
To: Lucy Harrison <lucy.harrison@manchester.gov.uk>
Cc: EnvH Licensing <envh.licensing@manchester.gov.uk>; Flood Risk Management <floodriskmanagement@manchester.gov.uk>; Neil Bayliss-Rowe <neil.bayliss-rowe@manchester.gov.uk>; Jonathan Sadler <jonathan.sadler@manchester.gov.uk>; Strategic Development Residential Team <stratdevresi@manchester.gov.uk>; Green Space <greenspace@manchester.gov.uk>
Subject: EIA Scoping Request - Plot F, Great Jackson Street

The Town and Country Planning (Environmental Impact Assessment) Regulations 2017 (as amended) (the "EIA" Regulations) - Request for Scoping Opinion

Plot F, Great Jackson Street

Under Part 4, Regulation 15 of the above regulations, I am informing you of a request made to Manchester City Council for a Scoping Opinion regarding the above development. A copy of the

Historic England

Ms Lucy Harrison
Manchester City Council
Planning
PO Box 532
Town Hall
MANCHESTER
M60 2LA

Direct Dial: 0161 2421442

Our ref: PL00751922

6 July 2021

Dear Ms Harrison

Re: PLOT F, GREAT JACKSON STREET, MANCHESTER ENVIRONMENTAL IMPACT ASSESSMENT (EIA) SCOPING REPORT

Thank you for your letter of 7th January 2021 consulting us about the above EIA Scoping Report.

This development could, potentially, have an impact upon a small number of designated heritage assets and their settings in the area around the site. While it is for the local authority to determine whether an EIA should be prepared for the proposed development, from the information given, we consider that there appears to be minimal impact on the historic environment. It is noted that this is also the conclusion drawn by the applicant, who states in section 3.31 of the submitted report that they intend to scope the topic out of the EIA.

However, we would also recommend that you seek confirmation from the relevant local authority Historic Environment staff, including the Conservation Officer(s) of Manchester City Council and the archaeological staff at the Greater Manchester Archaeological Advisory Unit, who can provide an informed local opinion of need.

If further information becomes available, which might result in a change to these conclusions, we would like to be informed and provided with that information. This will allow us to consider the matter further, and respond to you as appropriate.

If you have any queries about the above or would like to discuss anything further, please do not hesitate to contact me.

Yours sincerely,

Richard Broadhead
Inspector of Historic Buildings and Areas
E-mail: richard.broadhead@historicengland.org.uk

Positive About Disabled People
Stonewall DIVERSITY CHAMPION

Historic England is subject to both the Freedom of Information Act (2000) and Environmental Information Regulations (2004). A ny Information held by the organisation can be requested for release under this legislation.

SUITES 3.3 AND 3.4 CANADA HOUSE 3 CHEPSTOW STREET MANCHESTER M1 5FW

Telephone 0161 242 1416
HistoricEngland.org.uk

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Date: 22 July 2021
Our ref: 358988

Customer Services
Hornbeam House
Crewe Business Park
Electra Way
Crewe
Cheshire
CW1 6GJ

T 0300 060 3900

Lucy Harrison
Manchester City Council
BY EMAIL ONLY

Dear Lucy Harrison

Environmental Impact Assessment Scoping consultation (Regulation 15 (4) of the EIA Regulations 2017): Environmental Impact Assessment (EIA) Scoping Report for 988 apartments across two 51 storey towers - Plot F of the Great Jackson Street Strategic Development Framework, Manchester City Centre
Location:

Thank you for seeking our advice on the scope of the Environmental Statement (ES) in your consultation dated and received by Natural England

Natural England is a non-departmental public body. Our statutory purpose is to ensure that the natural environment is conserved, enhanced, and managed for the benefit of present and future generations, thereby contributing to sustainable development.

Case law[1] and guidance[2] has stressed the need for a full set of environmental information to be available for consideration prior to a decision being taken on whether or not to grant planning permission. Annex A to this letter provides Natural England's advice on the scope of the Environmental Impact Assessment (EIA) for this development.

Should the proposal be amended in a way which significantly affects its impact on the natural environment then, in accordance with Section 4 of the Natural Environment and Rural Communities Act 2006, Natural England should be consulted again.

We would be happy to comment further should the need arise but if in the meantime you have any queries please do not hesitate to contact us. For any queries relating to the specific advice in this letter only please contact Nicholas Armstrong at nicholas.armstrong@naturalengland.org.uk. For any new consultations, or to provide further information on this consultation please send your correspondences to consultations@naturalengland.org.uk.

Yours sincerely

Nicholas Armstrong
Planning Adviser
Cheshire to Lancashire Team

[1] Harrison, J in *R. v. Cornwall County Council ex parte Hardy* (2001)
[2] *Note on Environmental Impact Assessment Directive for Local Planning* Authorities Office of the Deputy Prime Minister (April 2004) available from http://webarchive.nationalarchives.gov.uk/+/http://www.communities.gov.uk/planningandbuilding/planning/sustainabilityenvironmental/environmentalimpactassessment/noteenvironmental/

Annex A – Advice related to EIA Scoping Requirements

1. General Principles

Schedule 4 of the Town & Country Planning (Environmental Impact Assessment) Regulations 2017, sets out the necessary information to assess impacts on the natural environment to be included in an ES, specifically:

- A description of the development – including physical characteristics and the full land use requirements of the site during construction and operational phases.
- Expected residues and emissions (water, air and soil pollution, noise, vibration, light, heat, radiation, etc.) resulting from the operation of the proposed development.
- An assessment of alternatives and clear reasoning as to why the preferred option has been chosen.
- A description of the aspects of the environment likely to be significantly affected by the development, including, in particular, population, fauna, flora, soil, water, air, climatic factors, material assets, including the architectural and archaeological heritage, landscape and the interrelationship between the above factors.
- A description of the likely significant effects of the development on the environment – this should cover direct effects but also any indirect, secondary, cumulative, short, medium and long term, permanent and temporary, positive and negative effects. Effects should relate to the existence of the development, the use of natural resources and the emissions from pollutants. This should also include a description of the forecasting methods to predict the likely effects on the environment.
- A description of the measures envisaged to prevent, reduce and where possible offset any significant adverse effects on the environment.
- A non-technical summary of the information.
- An indication of any difficulties (technical deficiencies or lack of know-how) encountered by the applicant in compiling the required information.

It will be important for any assessment to consider the potential cumulative effects of this proposal, including all supporting infrastructure, with other similar proposals and a thorough assessment of the 'in combination' effects of the proposed development with any existing developments and current applications. A full consideration of the implications of the whole scheme should be included in the ES. All supporting infrastructure should be included within the assessment.

2. Biodiversity and Geology

2.1 Ecological Aspects of an Environmental Statement

Natural England advises that the potential impact of the proposal upon features of nature conservation interest and opportunities for habitat creation/enhancement should be included within this assessment in accordance with appropriate guidance on such matters. Guidelines for Ecological Impact Assessment (EcIA) have been developed by the Chartered Institute of Ecology and Environmental Management (CIEEM) and are available on their website.

EcIA is the process of identifying, quantifying and evaluating the potential impacts of defined actions on ecosystems or their components. EcIA may be carried out as part of the EIA process or to support other forms of environmental assessment or appraisal.

The National Planning Policy Framework sets out guidance in S.174-177 on how to take account of biodiversity interests in planning decisions and the framework that local authorities should provide to assist developers.

2.2 Internationally and Nationally Designated Sites

The ES should thoroughly assess the potential for the proposal to affect designated sites. European sites (e.g. designated Special Areas of Conservation and Special Protection Areas) fall within the scope of the Conservation of Habitats and Species Regulations 2017 (as amended). In addition paragraph 176 of the National Planning Policy Framework requires that potential Special

Protection Areas, possible Special Areas of Conservation, listed or proposed Ramsar sites, and any site identified as being necessary to compensate for adverse impacts on classified, potential or possible SPAs, SACs and Ramsar sites be treated in the same way as classified sites.
Under Regulation 63 of the Conservation of Habitats and Species Regulations 2017 (as amended) an appropriate assessment needs to be undertaken in respect of any plan or project which is (a) likely to have a significant effect on a European site (either alone or in combination with other plans or projects) and (b) not directly connected with or necessary to the management of the site.

Should a Likely Significant Effect on a European/Internationally designated site be identified or be uncertain, the competent authority (in this case the Local Planning Authority) may need to prepare an Appropriate Assessment, in addition to consideration of impacts through the EIA process.

Sites of Special Scientific Interest (SSSIs) and sites of European or international importance (Special Areas of Conservation (SAC), Special Protection Areas (SPA) and Ramsar sites)
The development site is approximately 7km from the following designated nature conservation site~~s(s):~~

- Rochdale Canal SAC/ Rochdale Canal SSSI

- Further information on the SSSI and its special interest features can be found at www.magic.gov . The Environmental Statement should include a full assessment of the direct and indirect effects of the development on the features of special interest within Rochdale Canal SAC and should identify such mitigation measures as may be required in order to avoid, minimise or reduce any adverse significant effects.

- ~~–~~European site conservation objectives are available on our internet site http://publications.naturalengland.org.uk/category/6490068894089216

2.3 Regionally and Locally Important Sites
The EIA will need to consider any impacts upon local wildlife and geological sites. Local Sites are identified by the local wildlife trust, geoconservation group or a local forum established for the purposes of identifying and selecting local sites. They are of county importance for wildlife or geodiversity. The Environmental Statement should therefore include an assessment of the likely impacts on the wildlife and geodiversity interests of such sites. The assessment should include proposals for mitigation of any impacts and if appropriate, compensation measures. Contact the local wildlife trust, geoconservation group or local sites body in this area for further information.

2.4 Protected Species - Species protected by the Wildlife and Countryside Act 1981 (as amended) and by the Conservation of Habitats and Species Regulations 2017 (as amended)
The ES should assess the impact of all phases of the proposal on protected species (including, for example, great crested newts, reptiles, birds, water voles, badgers and bats). Natural England does not hold comprehensive information regarding the locations of species protected by law, but advises on the procedures and legislation relevant to such species. Records of protected species should be sought from appropriate local biological record centres, nature conservation organisations, groups and individuals; and consideration should be given to the wider context of the site for example in terms of habitat linkages and protected species populations in the wider area, to assist in the impact assessment.

The conservation of species protected by law is explained in Part IV and Annex A of Government Circular 06/2005 *Biodiversity and Geological Conservation: Statutory Obligations and their Impact within the Planning System*. The area likely to be affected by the proposal should be thoroughly surveyed by competent ecologists at appropriate times of year for relevant species and the survey results, impact assessments and appropriate accompanying mitigation strategies included as part of the ES.

In order to provide this information there may be a requirement for a survey at a particular time of

year. Surveys should always be carried out in optimal survey time periods and to current guidance by suitably qualified and where necessary, licensed, consultants. Natural England has adopted standing advice for protected species which includes links to guidance on survey and mitigation.

2.5 Habitats and Species of Principal Importance
The ES should thoroughly assess the impact of the proposals on habitats and/or species listed as 'Habitats and Species of Principal Importance' within the England Biodiversity List, published under the requirements of S41 of the Natural Environment and Rural Communities (NERC) Act 2006. Section 40 of the NERC Act 2006 places a general duty on all public authorities, including local planning authorities, to conserve and enhance biodiversity. Further information on this duty is available here https://www.gov.uk/guidance/biodiversity-duty-public-authority-duty-to-have-regard-to-conserving-biodiversity.

Government Circular 06/2005 states that Biodiversity Action Plan (BAP) species and habitats, 'are capable of being a material consideration…in the making of planning decisions'. Natural England therefore advises that survey, impact assessment and mitigation proposals for Habitats and Species of Principal Importance should be included in the ES. Consideration should also be given to those species and habitats included in the relevant Local BAP.

Natural England advises that a habitat survey (equivalent to Phase 2) is carried out on the site, in order to identify any important habitats present. In addition, ornithological, botanical and invertebrate surveys should be carried out at appropriate times in the year, to establish whether any scarce or priority species are present. The Environmental Statement should include details of:

- Any historical data for the site affected by the proposal (e.g. from previous surveys);
- Additional surveys carried out as part of this proposal;
- The habitats and species present;
- The status of these habitats and species (e.g. whether priority species or habitat);
- The direct and indirect effects of the development upon those habitats and species;
- Full details of any mitigation or compensation that might be required.

The development should seek if possible to avoid adverse impact on sensitive areas for wildlife within the site, and if possible provide opportunities for overall wildlife gain.

The record centre for the relevant Local Authorities should be able to provide the relevant information on the location and type of priority habitat for the area under consideration.

2.6 Contacts for Local Records
Natural England does not hold local information on local sites, local landscape character and local or national biodiversity priority habitats and species. We recommend that you seek further information from the appropriate bodies (which may include the local records centre, the local wildlife trust, local geoconservation group or other recording society and a local landscape characterisation document).

3. Designated Landscapes and Landscape Character

Nationally Designated Landscapes
As the development site is within/adjacent to Rochdale Canal SSSI, consideration should be given to the direct and indirect effects upon this designated landscape and in particular the effect upon its purpose for designation within the environmental impact assessment, as well as the content of the relevant management plan for Rochdale Canal SSSI.

4. Access and Recreation
Natural England encourages any proposal to incorporate measures to help encourage people to access the countryside for quiet enjoyment. Measures such as reinstating existing footpaths together with the creation of new footpaths and bridleways are to be encouraged. Links to other green networks and, where appropriate, urban fringe areas should also be explored to help promote

the creation of wider green infrastructure. Relevant aspects of local authority green infrastructure strategies should be incorporated where appropriate.

5. Air Quality

Air quality in the UK has improved over recent decades but air pollution remains a significant issue; for example over 97% of sensitive habitat area in England is predicted to exceed the critical loads for ecosystem protection from atmospheric nitrogen deposition (England Biodiversity Strategy, Defra 2011). A priority action in the England Biodiversity Strategy is to reduce air pollution impacts on biodiversity. The planning system plays a key role in determining the location of developments which may give rise to pollution, either directly or from traffic generation, and hence planning decisions can have a significant impact on the quality of air, water and land. The assessment should take account of the risks of air pollution and how these can be managed or reduced. Further information on air pollution impacts and the sensitivity of different habitats/designated sites can be found on the Air Pollution Information System (www.apis.ac.uk). Further information on air pollution modelling and assessment can be found on the Environment Agency website.

6. Climate Change Adaptation

The England Biodiversity Strategy published by Defra establishes principles for the consideration of biodiversity and the effects of climate change. The ES should reflect these principles and identify how the development's effects on the natural environment will be influenced by climate change, and how ecological networks will be maintained. The NPPF requires that the planning system should contribute to the enhancement of the natural environment 'by establishing coherent ecological networks that are more resilient to current and future pressures' (NPPF Para 174), which should be demonstrated through the ES.

7. Contribution to local environmental initiatives and priorities

Natural England would encourage the incorporation of GI into this development.

Multi-functional green infrastructure can perform a range of functions including improved flood risk management, provision of accessible green space, climate change adaptation and biodiversity enhancement.

GI can be designed to maximise the benefits needed for this development. We strongly encourage you to share this advice with the applicant to maximise opportunities to incorporate green infrastructure during the development of the detailed proposal.

Additional evidence and case studies on green infrastructure, including the economic benefits of GI can be found on the Natural England Green Infrastructure web pages.

8. Cumulative and in-combination effects

A full consideration of the implications of the whole scheme should be included in the ES. All supporting infrastructure should be included within the assessment.

The ES should include an impact assessment to identify, describe and evaluate the effects that are likely to result from the project in combination with other projects and activities that are being, have been or will be carried out. The following types of projects should be included in such an assessment, (subject to available information):

a. existing completed projects;
b. approved but uncompleted projects;
c. ongoing activities;
d. plans or projects for which an application has been made and which are under consideration by the consenting authorities; and
e. plans and projects which are reasonably foreseeable, i.e. projects for which an application has not yet been submitted, but which are likely to progress before completion of the

development and for which sufficient information is available to assess the likelihood of cumulative and in-combination effects.

Transport for Greater Manchester

2 Piccadilly Place
Manchester M1 3BG

0161 244 1000
www.tfgm.com

Manchester City Council
P O Box 532
Town Hall
Manchester
M60 2LA

Our ref TRA/21/180
Your ref:

21st July 2021

Dear Sir / Madam

Location: **Great Jackson Street, Plot F**

Proposal: **Development of no. 2 51 stories buildings consisting of approx. 988 compartments when combined**

Thank you for consulting Transport for Greater Manchester (TfGM) on the above scoping proposals. The following comments are offered as advice on transport issues for you to balance against other factors and are made in the context of TfGM's role in the planning process, as set out in the footnote below.[1]

TfGM scoping advice has been requested by Manchester City Council in respect of a proposed development on land at Great Jackson Street (known as Plot F) for a x2 51-storey buildings, comprising a total of 988 residential units.

It should be noted that TfGM provided comments on this proposal previously dated the 23rdJune 2021. Therefore, original comments have been reiterated below, in addition to the general assessment work we require as part of a full planning application.

1. Site Specific Comments

TfGM would suggest that MCC confirm the statements made regarding construction traffic in current flows. TfGM consider data from 2015 to be

[1]TfGM does not have any planning powers and is not a statutory consultee in the planning process. The purpose of the advice offered is to suggest the best way to improve land use / transport integration through the development proposals. Advice is based on the information provided by the applicant, and it is not TfGM's role to undertake detailed verification unless specifically commissioned to do so. [2]TfGM control and manage the traffic signals in Greater Manchester, as such any schemes that alter signalised junctions need to be agreed with TfGM. Additionally, where developments impact on signalised junctions, TfGM have a duty of care to ensure that these impacts are satisfactorily mitigated as part of the planning process.

outdated. It is suggested that as a solution, if available, data is used to determine the number of construction vehicles and new counts collected.

TfGM would suggest that Census 2011 data is used to determine the percentage of vehicle trips and applied to the person trips. It is suggested that relevant tables are produced to clearly show the trip generation used for the development. TfGM would also request that a trip distribution diagram be presented as well as the raw data.

With reference to Paragraph 5.218 of the scoping report, the pedestrian and cycling infrastructure in the vicinity of the proposed development should be fully audited and any shortcomings mitigated.

In respect of Paragraph 5.207, TfGM require assessments of any junctions where the traffic flows increase by 30 vehicles/per hour to be included within a future Transport Assessment (TA).

The TA should include taxis and all delivery trips (shopping/food etc) in the assessment work and should design suitable loading facilities, without reducing the width of the footway.

As discussed, the TA should include modelling for junctions experiencing an increase of 30vph or more.

The developer should consider improvements to Chester Road/Great Jackson Street. There will be increased traffic crossing an established cycle lane and walking route.

The provision of a crossing across Medlock Street should also be considered. This would allow for easier access to all of the amenities around First Street. TfGM would highlight that it is already difficult to cross at this location and the increased traffic from the development will further exacerbate this situation. This will result in further traffic conflicts to the detriment of pedestrian and highway safety.

2. <u>General Comments</u>

<u>Traffic Impact and Transport Modelling Requirements (to be included within a TA)</u>

A TA is required to understand the full impact of the proposed development.

I. TfGM UTC can be contacted in respect of the availability of any traffic counts in the area that could be used for the assessment, as brand new counts are not always required.
II. A description of current baseline traffic conditions in the area.

III. An analysis of injury accidents during a recent five-year period, commenting on whether there are any underlying patterns of injury accidents that might be affected by the development.

IV. Traffic surveys and queue surveys (weekdays) - scope to be agreed with TfGM UTC and HFAS.

V. A clear estimate of the level of new traffic likely to be associated with the development, based on an inspection of similar (and similarly-located) developments across the UK (excluding London) via the TRICS (or similar) database. The assessment work should be undertaken using a person-trip approach and applying the appropriate modal share percentages from local Census data. Other methodologies to determine trip rates are acceptable but these should be fully explained in the TA.

VI. A clearly defined methodology for determining the distribution / assignment of development trips onto the network i.e. understanding of where such new traffic is likely to distribute to/from, based on data sources such a Census Journey-to-Work statistics and/or vehicle turning proportions at nearby junctions.

VII. An assessment of traffic levels and impacts at the specified year of opening of the development, and at a future year at least five years later, with due regard for traffic growth (if any).

VIII. An understanding of the likely impacts of the proposed development considered alongside any other nearby committed developments.

IX. In the relevant TA, clear diagrams should be provided illustrating the following elements, each individually:

- Base Flows
- Committed Development Flows
- Proposed Flows
- Proposed Distribution
- Base plus Committed plus proposed development
- Future plus Committed plus proposed development

X. TfGM HFAS recommends an increase of about 30vehs/hr at a junction as an appropriate threshold for considering the necessity of a traffic impact assessment; this is in preference to a percentage-increase threshold, which tends to favour development in already heavily-trafficked areas.

XI. The scope of the junctions to be assessed by detailed modelling should be agreed with TfGM (UTC) and the Council in advance and will depend upon the outcome of the trip assessment and distribution exercise. For this reason, TfGM would advise that a trip generation and distribution exercise should be issued before submission of the planning application. Once this is undertaken it will be possible to finalise TfGM requirements in terms of the TA. This will largely depend on the amount of trip generation.

XII. Clear details of proposed vehicular access arrangements including general servicing arrangements. An engineering drawing should be supplied showing the changes to the road network to fully understand the impact of the proposed development.

XIII. A swept path analysis should be provided for any vehicular access.

XIV. A review of Traffic Regulation Orders on the surrounding streets in the vicinity of the development.

XV. An assessment of the likely environmental/traffic impacts of HGVs during the construction process.

3. Site Accessibility by Sustainable Modes

Walking and cycling should form the natural mode choice for shorter trips, and also provide a viable option to facilitate longer trips through providing easy access to public transport. New developments should connect with, and enhance, existing walking and cycling networks in their vicinity, and also provide high quality facilities and networks for walking and cycling within development sites.

The TA should include a comprehensive review of the existing provision in the vicinity of the site for all pedestrians including those with disabilities. In addition to walking distances and pedestrian desire lines, pedestrian environment (including footway condition and widths) and pedestrian safety and security should be considered.

An audit of the footways in the vicinity of the development should be undertaken and improvements identified.
A comprehensive review of the cycling infrastructure in the vicinity of the proposed development should also be undertaken. This should include an assessment of the connectivity of the site with existing cycle routes. The quality and condition of existing infrastructure, cyclist safety and security should also be considered.

The catchment area for cycling, walking and public transport should be captured in maps. The quality of the routes for pedestrians and cyclists should be described and this should include a description of any signing for cycle routes as appropriate.

The TA should provide a review of existing public transport services (including service frequency and location of nearest stations/stops), with a view to supporting improvements to existing public transport services as required, in particular, assess the quality of the surrounding bus infrastructure i.e. upgrade to shelters etc.

The TA should include a plan clearly showing details of the proposed pedestrian and cycle access points serving the site and linkages into the surrounding area. Connectivity with local public transport networks should be highlighted. The developer should consider measures to encourage access by sustainable modes. Possible measures include but are not limited to the provision of pedestrian crossings, cycleways, cycle parking, new/improved footway ensuring that there are linkages into existing cycle and pedestrian facilities, as well as upgrades to existing bus stops (where appropriate).

TfGM would suggest that a pedestrian survey is carried out in the vicinity of the site, as per guidance https://www.livingstreets.org.uk/media/1434/street-review-guidance-for-web.pdf and included as part of the TA

Details of cycle parking facilities for the proposed development (e.g. number of spaces, location and type) should be provided and shown on plan.

4. Mitigation Measures

Impacts of the development should be identified through the above assessment work. The developer should identify appropriate mitigation to accommodate any increases in traffic generation and increased pedestrian and cyclist movements. Any appropriate mitigation should be identified in conjunction with TfGM UTC and the Council who will be happy to work with the developer to agree an approach.

The TA should consider the impact of the development on the existing public transport networks in terms of extension of bus services, additional person trips. Mitigation measures should be considered where appropriate.

5. Travel Plan

A Framework Travel Plan for the development should accompany any future planning application.

6. Other

If there are any changes planned for bus infrastructure, for example relocation of existing bus stops or the creation of new bus parking areas, TfGM would request that the developer liaise directly with TfGM's bus infrastructure which can be contacted at Shelters@tfgm.com

7. Suggested Useful Guidance

In relation to walking, the importance of providing and maintaining good quality footways, free from obstruction and wide enough for when they are at their busiest, is critical to encourage and maximise walking levels associated with new developments. Useful guidance on street layouts which encourage walking is provided in Manual for Streets (Department for Transport, 2007). MfS provides guidance on lightly trafficked residential streets, and Manual for Streets 2 (CIHT, 2010) further develops the principles of the first Manual for Streets for application in wider circumstances on busier streets, including town and district centres.

In relation to cycling, infrastructure should be designed in accordance with current Greater Manchester Cycling Design Standards, the latest version of which is available from the TfGM website or by emailing cycling@tfgm.com. In particular, connections to/from and within developments should be designed in accordance with the Key Design Criteria of Safety, Coherence, Directness, Attractiveness and Comfort. A general principle is that infrastructure should be designed to be attractive to those who do not currently cycle, in order to drive the increase in cycling's mode share.

The Bee Network will be the largest joined-up system of walking and cycling routes in the UK and has been developed with all 10 Greater Manchester local authorities. More information on this is available on https://www.tfgm.com and TfGM would encourage the applicant to review the map online to determine whether there is an opportunity for this development to connect into the proposed Bee Network.

I hope you find these comments useful in the scoping process. Should you wish to discuss any matter further please do not hesitate to contact me.

Yours faithfully

Claire Smallman
Infrastructure Development Officer
Direct Line 0161 244 1733
Email claire.smallman@tfgm.com

Lucy Harrison

From: Planning Liaison <Planning.Liaison@uuplc.co.uk>
Sent: 02 July 2021 10:39
To: Planning; Lucy Harrison
Subject: RE: EIA Scoping Request - Plot F, Great Jackson Street

Dear Sir / Madam,

In response to Screening Request, United Utilities does not comment on Screening or Scoping Requests as the level of information we require in terms of understanding any water or wastewater requirements is likely to only become available once the development proposal is progressed nearer to planning application stage. Once the appropriate information is available, we would review and recommend any necessary planning conditions at the planning application consultation stage.

We do however, wish to continue to work closely with local authorities and developers alike in a bid to support sustainable development and economic growth. We would encourage potential developers to contact us at the appropriate time for pre-application discussions. Information for our pre-application services for both water and wastewater is available on our website.

Kind Regards,

United Utilities
Water for the North West

David Talbot
Planning Analyst
Planning, Landscape and Ecology
M: 07388709911
Email: Planning.Liaison@uuplc.co.uk
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From: Planning [mailto:Planning@manchester.gov.uk]
Sent: 01 July 2021 16:20
To: Lucy Harrison <lucy.harrison@manchester.gov.uk>
Subject: EIA Scoping Request - Plot F, Great Jackson Street

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The Town and Country Planning (Environmental Impact Assessment) Regulations 2017 (as amended) (the "EIA" Regulations) - Request for Scoping Opinion

Plot F, Great Jackson Street

Under Part 4, Regulation 15 of the above regulations, I am informing you of a request made to Manchester City Council for a Scoping Opinion regarding the above development. A copy of the developer's Scoping request is available using the following link, which sets out what they believe the scope of the Environmental Impact Assessment (EIA) should be.

https://we.tl/t-sk4zIpeZFa

The purpose of the request is to enable the City Council to make clear to the developer what it considers the main effects of the proposed development are likely to be and therefore the topics on which the proposed EIA should focus.

I am required, under the Regulations, to remind you of your obligation to make available, if requested, any relevant information in your possession. However, you are only required to provide information that is in your possession and there is no obligation to undertake research or otherwise to take steps to obtain information that you do not already have.

The City Council has five weeks from the date of the request to provide a formal Scoping Opinion. If you wish to make any comments to aid the Council in the formulation of a Scoping Opinion, please can you respond to lucy.harrison@manchester.gov.uk no later than 22 July 2021.

Regards
Anthony Moore
Technical Support Team Leader

Technical Support Team (Planning)
Planning, Building Control & Licensing
Growth & Development Directorate
Postal address: Manchester City Council, P O Box 532, Town Hall, Manchester M60 2LA
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Appendix 2.2 - Committed Developments

Committed Developments

ID	Name	LPA Planning Ref.	Description of Development	Status
Baseline (Under Construction)				
	2-4 Chester Road	113870/FO/2016	Construction of two residential apartment buildings with ancillary amenity facilities for residents including a gym, landscaped terrace and swimming pool, new public realm and landscaping including two new pedestrian connections to the Castlefield basin from Chester Road, basement car parking and related highway, access, servicing and associated works.	BASELINE Under construction.
	Deansgate Square	111719/FO/2016/C1	Construction of four residential buildings, ancillary amenity building for residents accommodating a tennis court, swimming pool and gym facilities (Use Class C3), ground floor retail units (Use Classes A1, A2, or A3), amenity space for residents within residential buildings, new public realm and landscaping, basement car parking and related highway, access, servicing, engineering and associated works.	BASELINE Complete, although not all approved landscaping has been delivered.
	Crown Street Phase 1 (Elizabeth Tower and Victoria Residence)	119806/FO/2018	Erection of two tall buildings (51 storeys and 21 storeys) comprising 664no residential units (use class C3) and commercial space (A1, A3 or D1), provision of two levels of basement parking, alterations to surface level car park, landscaping, highway alterations, access and associated works.	BASELINE Under construction.

ID	Name	LPA Planning Ref.	Description of Development	Status
	Crown Street Phase 2 (exc School)	126668/FO/2020	Full planning permission for the erection of two 52-storey residential buildings (Use Class C3) each incorporating a podium accommodating residential amenity facilities and ground floor and first floor commercial units (Use Classes A1, A2, A3, or D1), private and public basement car parking, landscaping and a public park, servicing and access arrangements, highways improvements, and associated works (Phases A, B, and D as defined on Drawing Reference: 10292Z1SHPG000PL00 B5D802 and 10292Z1SHPG000PLB1B5D801). Outline planning permission (with all matters reserved) for an educational facility (Use Class D1) (Phase C as defined on Drawing References: 10292Z1SHPG000PL00B5D802 and 10292Z1SHPG000PLB1B5D801)	BASELINE Under construction. (School to be considered as CUMULATIVE due to no reserved matters being submitted/approved – see below)
	Viadux	126868/JO/2020	Erection of a 40 storey building to form 375 residential apartments (Use Class C3a) and the erection of a 14 storey building for form offices (Use Class B1) (31,756 sqm) together with ground floor commercial space (Use Class A1, A3 or A4) (1010 sqm) with associated enclosed service yard, public realm including staircase and lift to connect with viaduct, car and le parking, landscaping and other associated works	BASELINE Above ground works have commenced albeit construction has not progressed beyond the podium level.
<u>Cumulative</u>				
	10-12 Whitworth Street	111003/FO/2016/C1	Demolition of existing building at 10 - 12 Whitworth Street West, and redevelopment of the site for a new 35 storey residential building (Use Class C3) comprising 327 apartments, with associated residents' services, facilities and communal spaces: servicing, highways, public realm and associated works.	CUMULATIVE Planning Permission implemented, not under construction. Site has been cleared.
	Crown Street Phase 2 (inc School)	126668/FO/2020	Full planning permission for the erection of two 52-storey residential buildings (Use Class C3) each incorporating a podium accommodating residential amenity facilities and ground floor and first floor commercial units (Use Classes A1, A2, A3, or D1), private and public basement car parking, landscaping and a public park, servicing and access arrangements, highways improvements, and associated works (Phases A, B, and D as defined on Drawing Reference: 10292Z1SHPG000PL00 B5D802	CUMULATIVE Difference from Baseline is school building, due to no reserved matters being submitted/approved for

ID	Name	LPA Planning Ref.	Description of Development	Status
			and 10292Z1SHPG000PLB1B5D801). Outline planning permission (with all matters reserved) for an educational facility (Use Class D1) (Phase C as defined on Drawing References: 10292Z1SHPG000PL00B5D802 and 10292Z1SHPG000PLB1B5D801)	that Outline part of the permission.
	Transition	116850/FO/2017	Demolition of the existing buildings on the site and construction of three residential buildings, 32, 26 and 18 storeys in height, comprising a total of 399 residential units (C3) and 50 retirement living units (C2) with roof top ancillary restaurant; 675 sq.m of commercial floor space (Use Classes A1, A2, A3, A4, B1, D1 or D2); associated car and cycle parking within a basement level; public realm and landscaping; access and servicing arrangements; and other associated works.	CUMULATIVE Planning Permission not implemented, not under construction.
	1 Alpha Place	120113/FO/2018	Erection of a seven storey apart-hotel (use class C1), comprising 59 rooms on the upper floors, with reception area and ancillary residents' lounge and breakfast area on the ground floor	CUMULATIVE Planning permission not implemented, not under construction.
	Plot 9, First Street	125833/FO/2019	Erection of a basement plus 11-storey building comprising office accommodation (Use Class B1), flexible commercial space (Use Classes A1 (Shops), A2 (Professional and Financial Services), A3 (Restaurants and Cafes), A4 (Drinking Establishments), B1 (offices), and D2 (Gymnasium), car parking, cycling parking and associated facilities, landscaping, and associated works.	CUMULATIVE Planning Permission not implemented, not under construction. Site has been cleared.
	325 Deansgate	125804/FO/2019	Demolition of existing buildings and structures on-site and erection of 22-storey building comprising apart-hotel (Use Class C1) with flexible commercial uses at ground floor and within existing viaduct arches (Use Class A1, A2, A3, A4, D2), access, landscaping and other associated works	CUMULATIVE Planning permission not implemented, not on site.

ID	Name	LPA Planning Ref.	Description of Development	Status
	Hotspur Press	120635/FO/2018	Part demolition and redevelopment and part retention and refurbishment of the former Hotspur Press Complex (Medlock Mill) to deliver 171 residential units (10 no. 1 bed, 1 person apartments, 49 no. 1 bed, 2 person apartments, 2no. 2 bed, 3 person apartments and 110 no. 2 bed 4 person apartments) - Use Class C3, within refurbished mill space and 28 storey building (including two levels of basement), commercial floorspace (Use Classes A1 (shop), A2 (financial and professional services), A3 (restaurants and cafes), B1 (office), D1 (medical clinic, health centre, art gallery and museum only) and / or D2 (gymnasium or bowling alley only) together with servicing, access, landscaping including a new public space and pedestrian route between Gloucester Street and First Street, and other associated works	CUMULATIVE Planning permission not implemented, not on site.
	Plot 11 First Street	125573/FO/2019	Construction of four buildings of heights varying from 10 storeys to 45 storeys together comprising Co-living bedspaces (use class sui generis) and associated amenity facilities, with ground floor commercial units (Use classes A3 (Café / Restaurant and D2 (Gym)), private amenity space and public realm comprising hard and soft landscaping, car parking and cycle facilities and other associated works.	CUMULATIVE Planning permission not implemented, not on site.
	One City Road	128002/FO/2020	Full Planning Application for demolition of existing structures on site, erection of one 11-storey plus basement office building (Use Class E) and one 14-storey plus basement office building with ground floor commercial unit (Use Class E), landscaping, highways works, and associated works	CUMULATIVE Planning Permission not implemented, not under construction

ID	Name	LPA Planning Ref.	Description of Development	Status
	Plot G, 34 Great Jackson Street	129273/FO/2021	Demolition of existing structures and the construction of two residential buildings of 56 storeys (plus basement and roof plant) (use class C3), with ground floor commercial uses (use class E), car parking, cycle provision, landscaping, access and other associated works	CUMULATIVE Live planning application in SRF area, which may be approved prior to submission of Proposed Development, not under construction.
	2-4 Whitworth Street	126308/FO/2020	The demolition of 2 to 4 Whitworth Street West and the construction of a mixed-use building, comprising flexible units for retail, food and drink use at ground floor level with a hotel at upper storeys, together with associated landscaping, servicing, cycle parking and other associated works.	CUMULATIVE Planning Permission not implemented, not under construction

Deloitte is aware of a substantial application which may be submitted imminently on the Existing Premier Inn site on Medlock Street comprising of tall buildings potentially up to 40-storeys. Full details will be available when planning application is validated and Deloitte will share an updated version of this schedule.

Deloitte.
Real Estate

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3. Design Evolution

No Appendices

4. Site and Development Description

No Appendices

5. Construction Methodology and Programme

No Appendices

6. Air Quality

Appendix 6.1 - Assessment Inputs

APPENDIX 6.1 - AIR QUALITY ASSESSMENT INPUTS

PLOT F, GREAT JACKSON STREET, MANCHESTER

AQ4162

JULY 2021

Prepared By

Josh Davies
Ensafe Group
Osprey House,
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ASSESSMENT INPUTS

Dispersion Model

Dispersion modelling was undertaken using the ADMS-Roads dispersion model (version 5.0). ADMS-Roads is developed by Cambridge Environmental Research Consultants (CERC) and is routinely used throughout the world for the prediction of pollutant dispersion from road sources. Modelling predictions from this software package are accepted within the UK by the Environment Agency and DEFRA.

The model requires input data that details the following parameters:

- Assessment area;
- Traffic flow data;
- Vehicle emission factors;
- Spatial co-ordinates of emissions;
- Street width;
- Meteorological data;
- Roughness length; and
- Monin-Obukhov length.

Assessment Area

Ambient concentrations were predicted over the Proposed Development site and surrounding highway network.

To assess on-Site concentrations, a single cartesian grid was included in the model over the area at approximately NGR: 383300, 397140 and 383520, 397360 at the following elevations to represent the relevant floor heights of the Proposed Development:

- Ground Floor Level 00 (1.5m);and
- First Floor Level 01 (10.5m);

Results were subsequently used to produce contour plots within the Surfer software package. Reference should be made to Figure 6.5 and 6.10 within Appendix 6.2 for a graphical representation of the verification inputs and operation phase DS extents, respectively.

Traffic Flow Data

Development flows traffic data was provided by Curtins, the appointed Transport Consultants for the scheme, and indicated that a total flow of 934 AADT is anticipated as a result of the Purposed Development.

A number of road links used in the assessment were not provided by Curtins and as such were obtained from a number of sources. Traffic data surrounding the Proposed Development was obtained from the agreed TfGM SATURN model provided by Vectos. This dataset fully accounts for planned growth in line with relevant committed developments and is considered to be a robust base upon to assess Proposed Development trips.

Data utilised in the verification process, including Regent Road, Trinity Way, Ordsall Lane and Oldfield Road were obtained from the Department for Transport (DfT).

It should be noted that the SATURN model and DfT matrix are suitable source of data for air quality assessments and are therefore considered to provide a reasonable representation of traffic flows in the vicinity of the site.

Growth factors provided by the Trip End Model Presentation Program (TEMPRO) software package were utilised to allow for conversion from the obtained 2019 traffic flow to 2028 which was used to represent the opening year scenario.

Vehicle speeds were estimated based on the free flow potential of each link and local speed limits. Road widths were estimated from aerial photography and UK highway design standards.

A summary of the traffic data used in the verification scenario is provided in Table AII 1.

Table AII 1: 2019 Verification Traffic Data

Road Link		Road Width (m)	Canyon Height (m)	24 Hour AADT Flow	HDV Pop (%)	Mean Vehicle Speed (km/hr)	Source
L1	A56 (W)	12.5	0	34,299	3.0	40	Curtins
L2	A56 (W) Slow Down (West)	11.5	0	17,150	3.0	20	Curtins
L3	A56 (W) Slow Down (East)	9.5	0	17,150	3.0	10	Curtins
L4	A56 Roundabout	11.3	0	14,574	3.7	10	SATURN
L5	Regent Road (South)	10.5	0	35,616	3.0	55	Curtins
L6	A57 (E)	7.0	0	27,986	4.7	55	SATURN
L7	Regent Road (North)	10.5	0	35,616	3.0	55	Curtins
L8	A57 (W)	7.3	0	24,299	6.9	55	SATURN
L9	Regent Road Onslip	6.3	0	11,622	2.6	32	SATURN
L10	Regent Road Offslip	7.5	0	7,271	2.5	32	SATURN
L11	A56 Roundabout	16.0	0	15,320	4.2	12	SATURN
L12	A56 Across Roundabout (East)	7.5	0	6,057	3.0	32	Curtins
L13	A56 Across Roundabout (West)	7.5	0	6,057	3.0	32	Curtins
L14	A56 Roundabout	11.0	0	15,320	4.2	12	SATURN
L15	A56 Roundabout	11.0	0	17,029	3.6	36	SATURN
L16	A56 roundabout (Manc Way)	11.0	0	17,029	3.6	36	SATURN
L17	A56 Roundabout	13.0	0	17,711	2.6	15	SATURN
L18	Chorlton Road Slow Down (North)	6.0	0	6,288	1.0	15	Curtins
L19	Chorlton Road Slow Down (South)	6.2	0	6,288	1.0	25	Curtins
L20	A56 Roundabout	12.2	0	14,574	3.7	15	SATURN
L21	Chorlton Road (North)	6.0	0	6,288	1.0	40	Curtins
L22	Chorlton Road (South)	6.3	0	6,288	1.0	40	Curtins
L23	Manc Way East (up to slip roads)	9.5	0	38,686	4.0	60	Curtins
L24	Manc Way West (up to slip roads)	9.5	0	38,686	4.0	60	Curtins
L25	Manc Way Onslip	7.3	0	9,361	4.6	45	SATURN
L26	Manc Way Offslip	7.3	0	9,992	2.9	50	SATURN
L27	Manc Way Offslip Medlock Street	7.5	0	10,488	2.1	15	SATURN
L28	Manc Way Onslip Princess Parkway	7.3	0	10,488	2.1	32	SATURN
L29	Manc Way East (up to University)	8.0	0	38,686	4.0	55	Curtins
L30	Manc Way West (up to University)	8.0	0	38,686	4.0	55	Curtins
L31	Princess Parkway	10.7	0	25,412	2.0	50	Curtins
L32	Princess Parkway	8.2	0	25,412	2.0	50	Curtins
L33	Princess Parkway Onslip	7.3	0	12,706	2.0	25	Curtins

Road Link		Road Width (m)	Canyon Height (m)	24 Hour AADT Flow	HDV Pop (%)	Mean Vehicle Speed (km/hr)	Source
L34	Medlock Street Offslip	7.6	0	7,825	1.0	25	Curtins
L35	Medlock Street Slow Down	14.5	0	15,650	1.0	25	Curtins
L36	Medlock Street (River Street to Little Peter Street)	14.6	0	16,235	1.0	40	Curtins
L37	Albion Street	14.9	0	16,235	1.0	35	Curtins
L38	Medlock Street Slow Down	14.7	0	16,235	1.0	15	Curtins
L39	River Street	9.5	0	1,776	0.0	32	Curtins
L40	City Road East/Great Jackson Street	8.2	0	5,127	1.9	20	Curtins
L41	City Road East/Great Jackson Street (Street Canyon Section)	17.8	23.5	5,127	1.9	35	Curtins
L42	City Road East/Great Jackson Street	8.2	0	5,127	1.9	35	Curtins
L43	City Road East Slow Down	9.1	0	3,402	1.1	30	Curtins
L44	Great Jackson Street to Bridgewater Viaduct	5.6	0	1,701	1.1	15	Curtins
L45	Bridgewater Viaduct to Great Jackson Street	4.5	0	1,701	1.1	15	Curtins
L46	Garwood Street	8.6	0	1,272	0.0	32	Curtins
L47	Garwood Street Onslip	5.5	0	636	0.0	25	Curtins
L48	Garwood Street Offslip	5.5	0	636	0.0	15	Curtins
L49	Chester Road East (West of Great Jackson Street)	7.3	0	6,057	3.0	40	Curtins
L50	Chester Road East (West of Great Jackson Street)	7.3	0	12,113	3.0	40	Curtins
L51	Chester Road East (A56 Roundabout Exit)	3.8	0	6,057	3.0	20	Curtins
L52	Chester Road East (West of Great Jackson Street)	7.5	0	6,057	3.0	25	Curtins
L53	Chester Road East (West of Great Jackson Street)	10.8	0	12,113	3.0	20	Curtins
L54	Chester Road East (A56 Roundabout Approach)	5.6	0	6,057	3.0	20	Curtins
L55	Chester Road East (Great Jackson Street to Old Deansgate) Eastbound	7.3	0	11,562	3.0	0	Curtins
L56	Chester Road East (Great Jackson Street to Old Deansgate) Westbound	6.3	0	11,562	3.0	0	Curtins
L57	A56 Bridgewater Viaduct	10.8	0	18,371	3.0	0	Curtins
L58	Old Deansgate Slow Down	9.3	0	1,992	2.4	40	Curtins
L59	Old Deansgate	6.5	0	1,992	2.4	40	Curtins
L60	Little Peter Street	6.1	0	1,611	0.0	15	Curtins
L61	Whitworth Street West - Slow Down	11.5	0	9,152	1.0	15	Curtins
L62	Whitworth Street West	11.5	0	9,152	1.0	48	Curtins
L63	Whitworth Street East - Slow Down	10.5	0	11,797	1.0	15	Curtins
L64	Whitworth Street East	10.5	0	11,797	1.0	48	Curtins
L65	Deansgate	12.0	0	16,939	3.0	48	Curtins
L66	Albion Street	15.6	0	16,029	3.0	35	Curtins
L67	Hewitt Street	5.0	0	515	0.0	15	Curtins

Road Link		Road Width (m)	Canyon Height (m)	24 Hour AADT Flow	HDV Pop (%)	Mean Vehicle Speed (km/hr)	Source
L68	Hewitt Street	5.1	0	515	0.0	30	Curtins
L69	Melborne Street	6.5	0	131	0.0	32	Curtins
L70	Regent Road (West) Slow	11.1	0	19,641	4.3	15	DfT
L71	Regent Road (West) Slow	7.3	0	19,641	4.3	20	DfT
L72	Regent Road (East) Slow	7.0	0	19,641	4.3	20	DfT
L73	Regent Road (East) Slow	9.8	0	19,641	4.3	15	DfT
L74	Regent Road (West) Slow	7.0	0	19,641	4.3	32	DfT
L75	Regent Road (West) Slow	10.0	0	19,641	2.1	15	DfT
L76	Regent Road (East) Slow	7.2	0	19,641	2.1	32	DfT
L77	Regent Road (East) Slow	7.3	0	19,641	2.1	15	DfT
L78	Regent Road (West) Speed Up	7.1	0	20,767	2.0	15	DfT
L79	Regent Road (West)	7.5	0	20,767	2.0	32	DfT
L80	Regent Road (East) Slow Down	9.5	0	20,767	2.0	15	DfT
L81	Regent Road (East)	7.5	0	20,767	2.0	35	DfT
L82	Liverpool Road Slow Down	10.3	0	5,372	3.4	15	DfT
L83	Water Street/Liverpool Street	8.2	0	5,372	3.4	40	DfT
L84	Water Street Slow Down	15.6	0	5,372	3.4	15	DfT
L85	Trinity Way (North)	8.3	0	10,803	1.1	40	DfT
L86	Trinity Way (South)	8.3	0	10,803	1.1	40	DfT
L87	Oldfield Road (North) Slow Down	13.1	0	9,755	2.3	15	DfT
L88	Oldfield Road (North)	9.9	0	9,755	2.3	40	DfT
L89	Oldfield Road (South) Slow Down	12.4	0	7,085	2.7	15	DfT
L90	Oldfield Road (South)	8.2	0	7,085	2.7	40	DfT
L91	Ordsall Lane (South)	8.7	0	11,421	1.8	32	DfT
L92	Ordsall Lane (South) Slow Down	13.2	0	11,421	1.8	10	DfT
L93	Regent Road onto Ordsall Lane	4.0	0	3,807	1.8	10	DfT
L94	Ordsall Lane onto Regent Road	4.1	0	3,807	1.8	10	DfT
L95	Ordsall Lane/Regent Road Junction	15.0	0	3,807	1.8	10	DfT
L96	Ordsall Lane (North) Slow Down	18.3	0	9,083	1.8	10	DfT
L97	Ordsall Lane (North)	10.3	0	9,083	1.8	32	DfT
L98	Site Access - Owen Street to Old Deansgate	5.50	0	0	0.0	25	Curtins
L99	Site Access - Owen Street City Road East	5.50	0	0	0.0	25	Curtins

Reference should be made to Figure 6.6 within Appendix 6.2 for a graphical representation of the road link locations used within the verification assessment. The road width, canyon height and mean vehicle speed shown in Table AII.1 remained the same for the 2027 scenarios.

A summary of the 2027 traffic data is shown in **Table AII 2**.

Table AII 2: 2027 Traffic Data

Road Link		DM		DS	
		24 Hr AADT Flow	HDV Prop (%)	24 Hr AADT Flow	HDV Prop (%)
L1	A56 (W)	36,288	3.0	36,744	3.0
L2	A56 (W) Slow Down (West)	18,144	3.0	18,372	3.0
L3	A56 (W) Slow Down (East)	18,144	3.0	18,372	3.0
L4	A56 Roundabout	15,989	3.7	16,103	3.7
L5	Regent Road (South)	37,681	3.0	37,956	3.0
L6	A57 (E)	30,704	4.7	30,728	4.7
L7	Regent Road (North)	37,681	3.0	37,956	3.0
L8	A57 (W)	26,660	6.9	26,683	6.9
L9	Regent Road Onslip	12,751	2.6	12,808	2.6
L10	Regent Road Offslip	7,978	2.5	8,229	2.4
L11	A56 Roundabout	16,808	4.2	17,173	4.1
L12	A56 Across Roundabout (East)	9,072	3.0	9,345	3.0
L13	A56 Across Roundabout (West)	7,188	3.0	7,461	3.0
L14	A56 Roundabout	16,808	4.2	17,014	4.1
L15	A56 Roundabout	18,684	3.6	18,946	3.5
L16	A56 roundabout (Manc Way)	18,684	3.6	18,815	3.5
L17	A56 Roundabout	19,431	2.6	19,610	2.5
L18	Chorlton Road Slow Down (North)	6,652	1.0	6,655	1.0
L19	Chorlton Road Slow Down (South)	6,652	1.0	6,655	1.0
L20	A56 Roundabout	15,989	3.7	16,168	3.7
L21	Chorlton Road (North)	6,652	1.0	6,655	1.0
L22	Chorlton Road (South)	6,652	1.0	6,655	1.0
L23	Manc Way East (up to slip roads)	40,929	4.0	40,976	4.0
L24	Manc Way West (up to slip roads)	40,929	4.0	40,976	4.0
L25	Manc Way Onslip	10,270	4.6	10,412	4.6
L26	Manc Way Offslip	10,963	2.9	11,010	2.8
L27	Manc Way Offslip Medlock Street	11,507	2.1	11,531	2.1
L28	Manc Way Onslip Princess Parkway	11,507	2.1	11,531	2.1
L29	Manc Way East (up to University)	40,929	4.0	40,976	4.0
L30	Manc Way West (up to University)	40,929	4.0	40,976	4.0
L31	Princess Parkway	26,885	2.0	26,901	2.0
L32	Princess Parkway	26,885	2.0	26,901	2.0
L33	Princess Parkway Onslip	13,443	2.0	13,451	2.0
L34	Medlock Street Offslip	8,279	1.0	8,420	1.0

Road Link		DM		DS	
		24 Hr AADT Flow	HDV Prop (%)	24 Hr AADT Flow	HDV Prop (%)
L35	Medlock Street Slow Down	16,557	1.0	16,841	1.0
L36	Medlock Street (River Street to Little Peter Street)	17,216	1.0	17,466	1.0
L37	Albion Street	17,216	1.0	17,466	1.0
L38	Medlock Street Slow Down	17,216	1.0	17,466	1.0
L39	River Street	1,879	0.0	1,911	0.0
L40	City Road East/Great Jackson Street	2,482	1.0	2,738	1.0
L41	City Road East/Great Jackson Street (Street Canyon Section)	2,482	1.0	2,738	1.0
L42	City Road East/Great Jackson Street	2,482	1.0	2,738	1.0
L43	City Road East Slow Down	5,824	1.0	5,787	1.0
L44	Great Jackson Street to Bridgewater Viaduct	2,912	1.0	2,894	1.0
L45	Bridgewater Viaduct to Great Jackson Street	2,912	1.0	2,894	1.0
L46	Garwood Street	1,345	0.0	1,531	0.0
L47	Garwood Street Onslip	673	0.0	765	0.0
L48	Garwood Street Offslip	673	0.0	765	0.0
L49	Chester Road East (West of Great Jackson Street)	7,188	0.8	7,347	3.0
L50	Chester Road East (West of Great Jackson Street)	14,377	3.0	14,695	3.0
L51	Chester Road East (A56 Roundabout Exit)	7,188	3.0	7,347	3.0
L52	Chester Road East (West of Great Jackson Street)	7,188	3.0	7,347	3.0
L53	Chester Road East (West of Great Jackson Street)	14,377	3.0	14,695	3.0
L54	Chester Road East (A56 Roundabout Approach)	7,188	3.0	7,347	3.0
L55	Chester Road East (Great Jackson Street to Old Deansgate) Eastbound	13,284	3.0	13,620	3.0
L56	Chester Road East (Great Jackson Street to Old Deansgate) Westbound	13,284	3.0	13,620	3.0
L57	A56 Bridgewater Viaduct	19,436	3.0	19,660	3.0
L58	Old Deansgate Slow Down	7,358	1.0	8,031	1.0
L59	Old Deansgate	7,358	1.0	8,031	1.0
L60	Little Peter Street	1,705	0.0	1,705	0.0
L61	Whitworth Street West - Slow Down	12,481	1.0	12,481	1.0
L62	Whitworth Street West	12,481	1.0	12,481	1.0
L63	Whitworth Street East - Slow Down	9,683	1.0	9,808	1.0
L64	Whitworth Street East	9,683	1.0	9,808	1.0
L65	Deansgate	17,921	3.0	18,146	3.0
L66	Albion Street	16,958	3.0	17,083	3.0
L67	Hewitt Street	545	0.0	545	0.0
L68	Hewitt Street	545	0.0	545	0.0
L69	Melborne Street	1,577	0.0	1,860	0.0
L70	Regent Road (West) Slow	20,888	4.3	20,888	4.3

Road Link		DM		DS	
		24 Hr AADT Flow	HDV Prop (%)	24 Hr AADT Flow	HDV Prop (%)
L71	Regent Road (West) Slow	20,888	4.3	20,888	4.3
L72	Regent Road (East) Slow	20,888	4.3	20,888	4.3
L73	Regent Road (East) Slow	20,888	4.3	20,888	4.3
L74	Regent Road (West) Slow	20,888	4.3	20,888	4.3
L75	Regent Road (West) Slow	20,888	2.1	20,888	2.1
L76	Regent Road (East) Slow	20,888	2.1	20,888	2.1
L77	Regent Road (East) Slow	20,888	2.1	20,888	2.1
L78	Regent Road (West) Speed Up	22,086	2.0	22,086	2.0
L79	Regent Road (West)	22,086	2.0	22,086	2.0
L80	Regent Road (East) Slow Down	22,086	2.0	22,086	2.0
L81	Regent Road (East)	22,086	2.0	22,086	2.0
L82	Liverpool Road Slow Down	5,713	3.4	5,713	3.4
L83	Water Street/Liverpool Street	5,713	3.4	5,713	3.4
L84	Water Street Slow Down	5,713	3.4	5,713	3.4
L85	Trinity Way (North)	11,488	1.1	11,488	1.1
L86	Trinity Way (South)	11,488	1.1	11,488	1.1
L87	Oldfield Road (North) Slow Down	10,374	2.3	10,374	2.3
L88	Oldfield Road (North)	10,374	2.3	10,374	2.3
L89	Oldfield Road (South) Slow Down	7,535	2.7	7,535	2.7
L90	Oldfield Road (South)	7,535	2.7	7,535	2.7
L91	Ordsall Lane (South)	12,146	1.8	12,146	1.8
L92	Ordsall Lane (South) Slow Down	12,146	1.8	12,146	1.8
L93	Regent Road onto Ordsall Lane	4,049	1.8	4,049	1.8
L94	Ordsall Lane onto Regent Road	4,049	1.8	4,049	1.8
L95	Ordsall Lane/Regent Road Junction	4,049	1.8	4,049	1.8
L96	Ordsall Lane (North) Slow Down	9,659	1.8	9,659	1.8
L97	Ordsall Lane (North)	9,659	1.8	9,659	1.8
L98	Site Access - Owen Street to Old Deansgate	0	0.0	673	1.0
L99	Site Access - Owen Street City Road East	0	0.0	256	1.0

Emission Factors

Emission factors for each link were calculated using the relevant traffic flows and the Emissions Factor Toolkit (version 10.1) released in August 2020, which incorporates updated COPERT 5 vehicle emissions factors for NO_x and PM and EURO 6 vehicle fleet sub-categories.

There is current uncertainty over NO_2 concentrations within the UK, with roadside levels not reducing as previously expected due to the implementation of new vehicle emission standards. Therefore, 2019 emission factors have been utilised for the

prediction of pollution levels for all scenarios in preference to the development opening year in order to provide a robust assessment.

Meteorological Data

Meteorological data used in this assessment was taken from Manchester Ringway meteorological station over the period 1st January 2017 to 31st December 2019 (inclusive). Manchester Ringway meteorological station is located at approximate NGR: 381745, 383960, which is approximately 17km south-west of the proposed development.

All meteorological records used in the assessment were provided by Atmospheric Dispersion Modelling (ADM) Ltd, which is an established distributor of data within the UK. Reference should be made to Figure 6.4 within Appendix 6.3 for a wind rose of utilised meteorological data.

Roughness Length

The specific roughness length (z_0) values used to represent conditions during the verification process, DS scenario, as well as conditions at the Manchester Ringway meteorological station are summarised in Table AII 3.

Table AII 3: Utilised Roughness Lengths

Scenario	Roughness Length (m)	ADMS Description
Verification and Operational phase (DS and DM scenario)	1.0	Cities and Woodlands
Meteorological Station	0.3	Agricultural Areas (Max)

These values of z_0 are considered appropriate for the morphology of the assessment area.

Monin-Obukhov Length

The Monin-Obukhov length provides a measure of the stability of the atmosphere within certain urban or rural contexts. The specific length values used to represent conditions during the verification process, DS scenario, as well as conditions at the Manchester Ringway meteorological station are summarised in Table AII 4

Table AII 4: Utilised Monin-Obukhov Lengths

Scenario	Monin-Obukhov Length (m)	ADMS Description
Verification and Operational phase (DS and DM scenario) and Meteorological Station	30	Cities and Large Town or Mixed Urban/Industrial

This Monin-Obukhov value is considered appropriate for the morphology of the assessment area.

Background Concentrations

Background concentrations provided by DEFRA were used in the dispersion modelling assessment to represent existing annual mean NO_2, NO_x and PM_{10} concentrations in the vicinity of the site.

In order to avoid 'double-counting' of road vehicle exhaust emissions of NO_2 and NO_x, the proportion of the relevant background concentrations from A-roads was removed in accordance with the methodology outlined in DEFRA guidance LAQM.TG(16). This sector was considered to be the most representative of that being modelled within ADMS-Roads.

The background concentrations before and following the adjustment are presented in Table AII 5.

Table AII 5: Background Pollutant Concentrations

Pollutant	Predicted Annual Mean Background Concentration (µg/m³)	
	Total Predicted 2019 Background	Predicted Background with A-Roads Removed
NO_2	39.95	33.56
NO_x	26.07	22.52
Pollutant	**Predicted Annual Mean Background Concentration (µg/m³)**	
PM_{10}	13.47	
$PM_{2.5}$	14.38	

Like emission factors, background concentrations for 2019 were utilised in preference to the development opening year of 2027. This provided a robust assessment and is likely to overestimate actual pollutant concentrations during the operation of the proposals.

Table AII 6 displays the specific background concentrations as predicted by DEFRA, utilised to represent the condition at the monitoring locations used within the verification process.

As above, In order to avoid 'double-counting' of road vehicle exhaust emissions of NO_2 and NO_x, the proportion of the relevant background concentrations from A-roads was removed in accordance with the methodology outlined in DEFRA guidance LAQM.TG(16).

Table AII 6: Predicted Background Pollutant Concentrations for Diffusion Tubes

Monitoring Location	DEFRA Grid Square	Pollutant	2019 Predicted Background Concentration (µg/m³)
MAN 77	383500, 397500	NO_x	35.56
		NO_2	22.52
MAN 97, SA60, SA81	382500, 397500	NO_x	28.30
		NO_2	19.64
SA59	381500, 397500	NO_x	27.19
		NO_2	19.00

Similar to emission factors, background concentrations for 2019 were utilised in preference to predicted background concentrations for the development opening year (2027). This provided a robust assessment and is likely to overestimate actual pollutant concentrations during the operation of the proposals.

Table AII 6 displays the predicted background concentrations by DEFRA used in the operational phase assessment for the sensitive receptor locations.

Table AII 7: Predicted Background Pollutant Concentrations for Receptors

Receptor Location	DEFRA Grid Square	Pollutant	2019 Predicted Background Concentration (µg/m³)
R1 – R11 & R25,R26	382500, 397500	NO_x	28.30
		NO_2	19.64
		PM_{10}	13.16
		$PM_{2.5}$	8.54

Receptor Location	DEFRA Grid Square	Pollutant	2019 Predicted Background Concentration (µg/m³)
R12 – R24 & R27 – R39	383500, 397500	NO_x	33.56
		NO_2	22.52
		PM_{10}	13.47
		$PM_{2.5}$	8.69

NO_x to NO_2 Conversion

Predicted annual mean NO_x concentrations from the dispersion model were converted to NO_2 concentrations using the NO_x to NO_2 Calculator (v.8.1) provided by DEFRA, which is the method detailed within LAQM TG(16).

Verification

The predicted results from a dispersion model may differ from measured concentrations for a large number of reasons, including:

- Estimates of background concentrations;
- Uncertainties in source activity data such as traffic flows and emission factors;
- Variations in meteorological conditions;
- Overall model limitations; and
- Uncertainties associated with monitoring data, including locations.

Model verification is the process by which these and other uncertainties are investigated and where possible minimised. In reality, the differences between modelled and monitored results are likely to be a combination of all of these aspects.

For the purpose of this assessment model verification was undertaken for 2019, using traffic data, meteorological data and monitoring results from this year. MCC and SCC undertake periodic monitoring of NO_2 concentrations at 5 suitable roadside monitoring location within the assessment extents. The dispersion model was run with the traffic input data previously detailed for 2019 to predict the NOx concentration at the monitoring locations.

The road contribution to total NO_x concentration was calculated from the monitored NO_2 result for use in the verification process. This was undertaken following the methodology contained within DEFRA guidance LAQM TG(16). The monitored annual mean NO_2 concentration and calculated road NO_x concentration are summarised in Table AII 8.

Table AII 8: Monitoring Results

Site ID	Monitored Road NO_x Concentration (µg/m³)	Modelled Road NO_x Concentration (µg/m³)	% Difference ((Monitored Modelled)/Monitored)) * 100
MAN77	44.22	10.49	76%
MAN97	25.01	14.02	44%
SA81	56.62	39.47	30%
SA60	34.35	24.98	27%

The monitored and modelled NO_x road contribution concentrations were graphed and the equation of the trend line based on the linear progression through zero was calculated, as shown in Graph 1. This indicated that a verification factor of **1.5700** was required to be applied to all NO_x modelling results, showing the model underestimated pollutant concentrations throughout the assessment extents.

Graph 1 - Verification Adjustment Factor

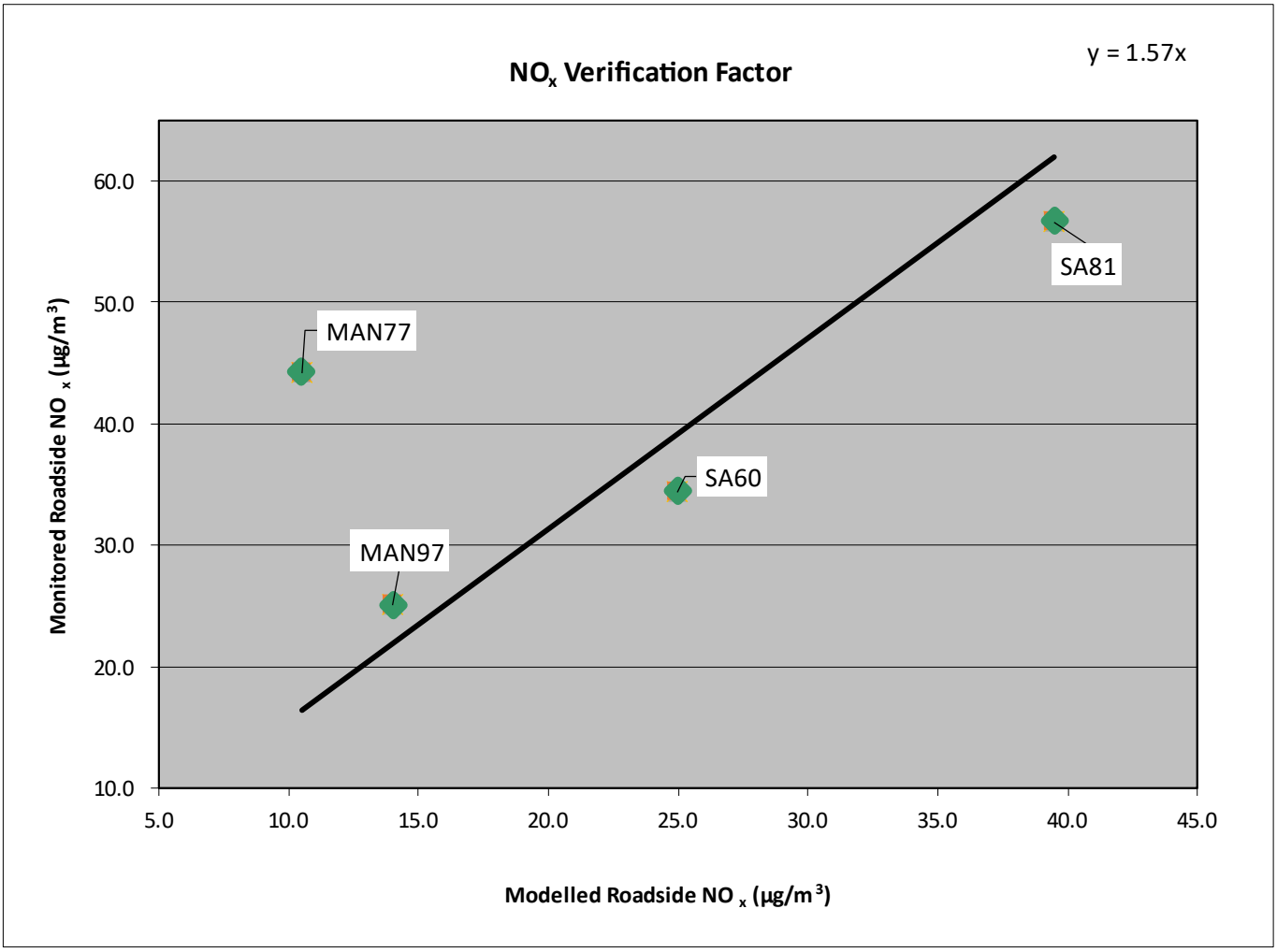


Table AII 9 presents the monitored annual mean NO_2 concentrations and the adjusted modelled total NO_2 concentration based on the above verification factor.

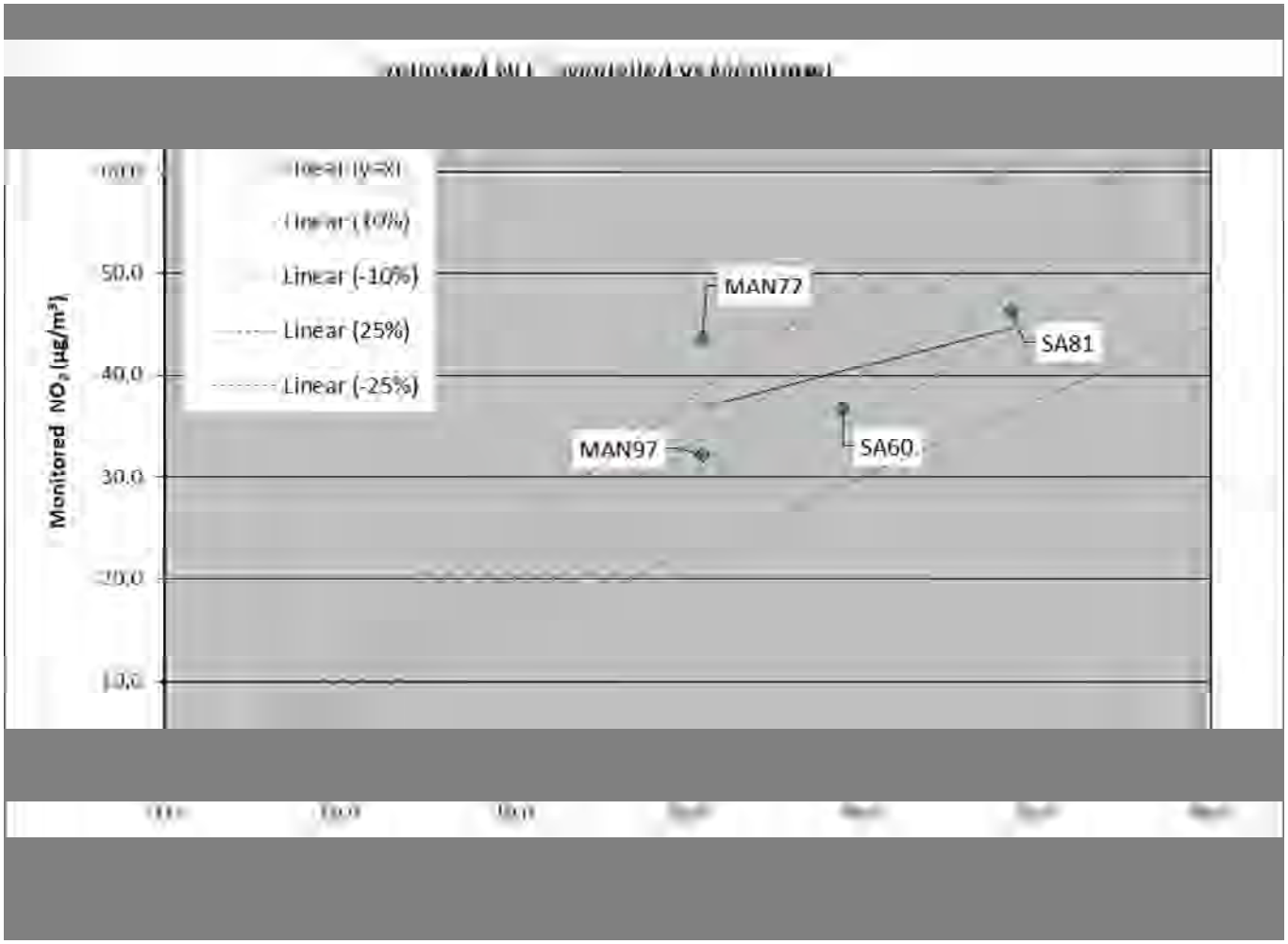
Table AII 9: Modelled Concentrations

Site ID	Monitored Road NO_2 Concentration (µg/m³)	Adjusted Modelled Road NO_2 Concentration (µg/m³)	% Difference ((Monitored Modelled)/Monitored)) * 100
MAN77	**43.66**	30.88	29%
MAN97	32.29	30.84	4%
SA81	**46.41**	**48.63**	-5%
SA60	36.66	38.87	-6%

As demonstrated in **Table AII 9**, the percentage difference between modelled and monitored concentrations is less than 10% at three locations, this reduces uncertainties in the model predictions and provide a robust representation of pollutant concentrations in accordance with the guidance suggested in LAQM.TG(16). MAN77 is marginally over the 25% threshold specified by LAQM.TG(16) however all necessary adjustments to the modelling inputs have been made to improve modelled concentrations at this location. This includes street canyons effects, speed and traffic flow checks.

A graphical representation of the adjusted NO_2 concentrations is provided within Graph 2.

Graph 2 – Adjusted NO_2 Concentrations



As PM monitoring is not undertaken within the assessment extents, the NO_x adjustment factor of **1.5700** was utilised to adjust model predictions of PM in accordance with the guidance provided within LAQM (TG16)[2].

CONSULTATION

There is the potential for the to expose future site users to elevated NO_2 and PM concentrations, as well as to cause impacts at sensitive locations during the construction and operational phases. The following methodology detailed was scoped with the Environmental Health Officer at MCC on 11/06/21 and agreed in principle. Summary of the

Table AII 10: Modelled Concentrations

Consultee	Date and Time	Comments
Environmental Health department – Manchester City Council	11/06/2021, 9.37	Email sent in order to agree the scope of assessment methodology in line with current guidance and Standards. Approval given on the basis of previous Plot G acceptance

Josh Davies to Rebecca Twigg - Air Quality Methodology
08/06/2021 10:54

From: Josh Davies [redacted]
Sent: 08 June 2021 10:54
To: Rebecca Twigg <[redacted]
Cc: Lucy Harrison <[redacted]
Subject: Plot F, Great Jackson Street - Air Quality Traffic Data

HI Rebecca/Lucy,

I hope you don't mind me contacting you?

I am working as the Air Quality Consultant on Plot F Great Jackson Street ES Chapter and have a query on what you may deem acceptable with relation to traffic information.

Given the current pandemic, I was hoping to reutilise historical data from 2019 to inform our assessment. This will follow the strategy employed for Plot G which went to planning some 8 weeks ago. The historical data will be updated in full to consider recent committed schemes and development generated traffic.

I also understand that our transport consultant is in conversation with highways to inform our approach, I will provide an update once we know more.

In the first instance could kindly provide your feedback on approach.

Kind Regards

Josh Davies
Principal Air Quality Consultant

Laura Miller to Josh Davies – Methodology Approval
11/06/2021 09:37

From: Laura Miller [redacted]
Sent: 11 June 2021 09:37
To: Josh Davies [redacted]
Subject: RE: Plot F, Great Jackson Street - Air Quality Traffic Data

Hi Josh,

I have looked at your proposals and they are acceptable to me (having already approved the AQ assessment for plot G on this basis)

If you have any more questions about Plot F then please contact me.

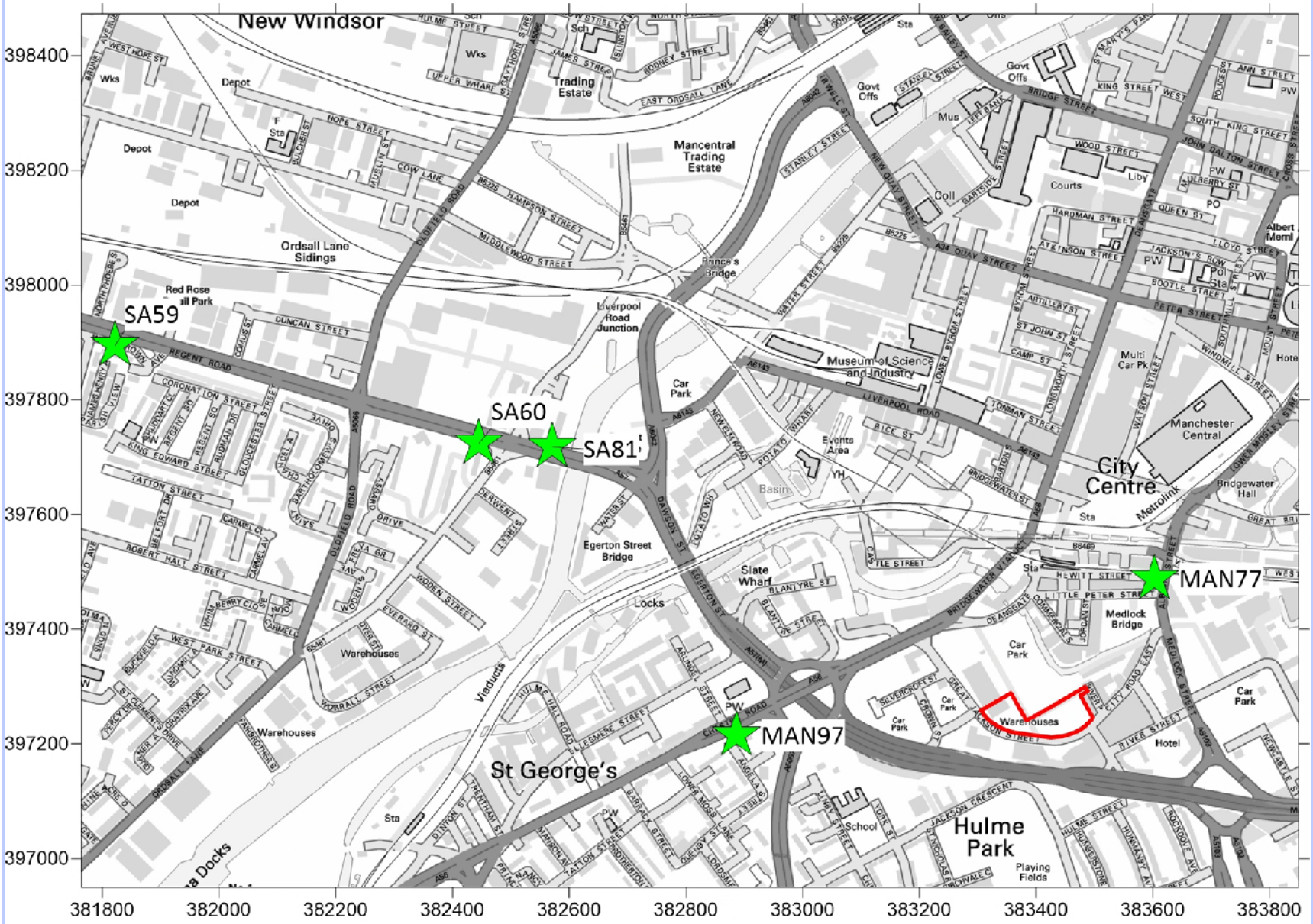
Kind Regards

Laura

Laura Miller (MRes, MA, BSc(Hons))
Environmental Protection Section
Environmental Health
Neighbourhoods Directorate
Manchester City Council

Telephone: [redacted]
email: [redacted]
website: www.manchester.gov.uk

Appendix 6.2 – Figures



Legend

Site Boundary

Diffusion Tube Monitoring Locations

Figure:	**6.1**		
Title:	**Air Quality Monitoring Locations**		
Project:	**Plot F, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

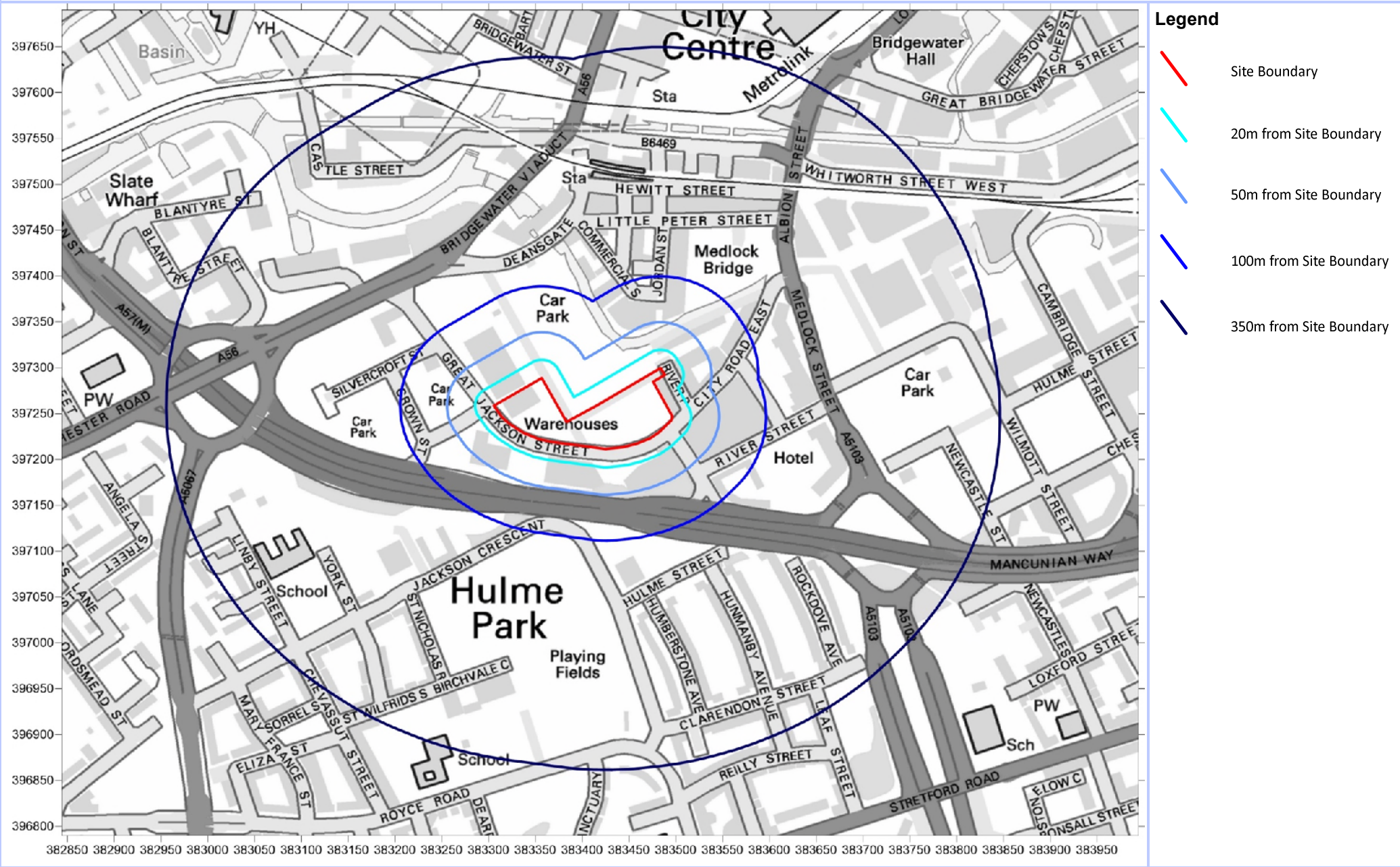


Figure:	**6.2**		
Title:	**Demolition, Earthworks and Construction Dust Buffer Zones**		
Project:	**Plot G, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

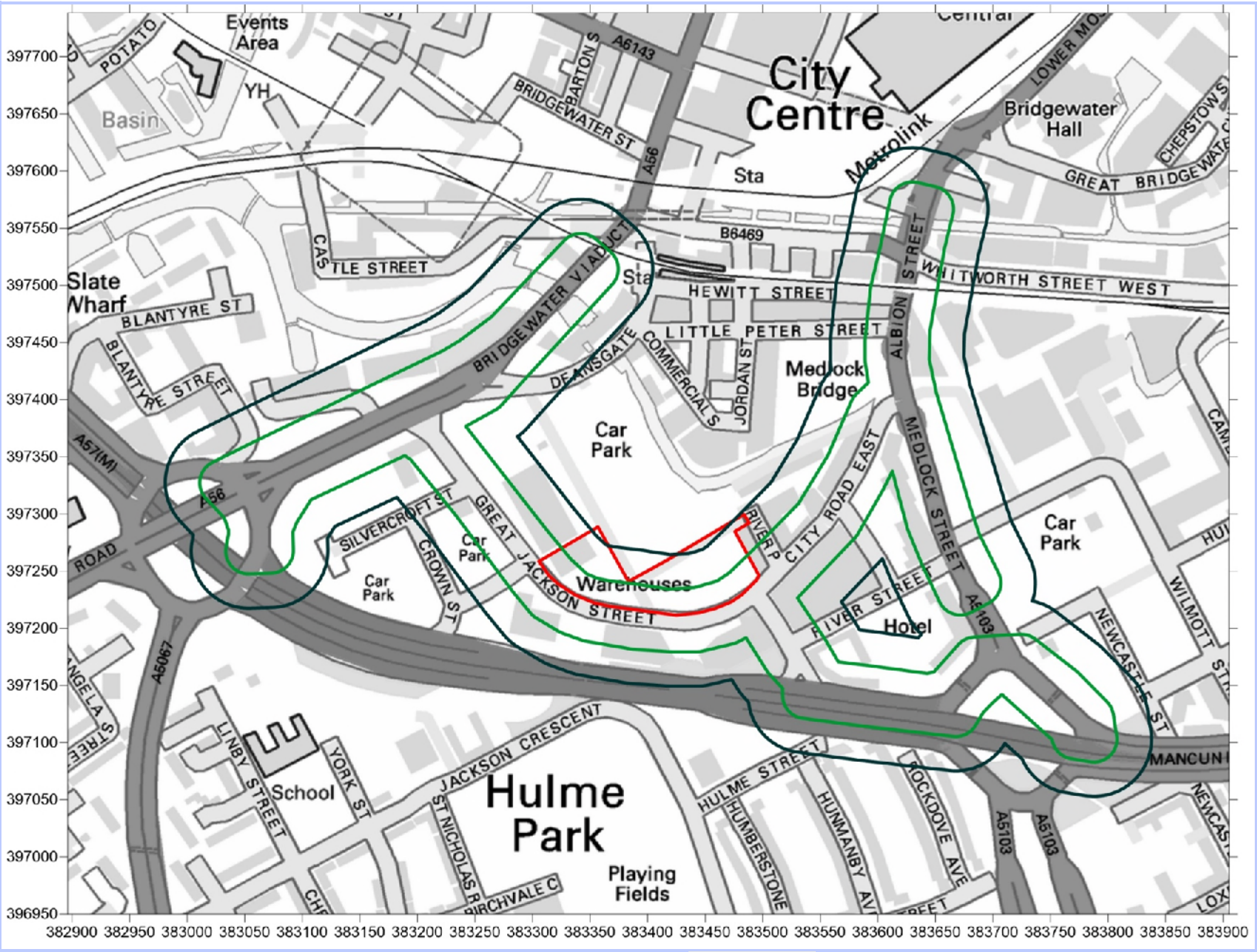


Figure:	**6.3**		
Title:	**Trackout Dust Buffer Zones**		
Project:	**Plot G, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

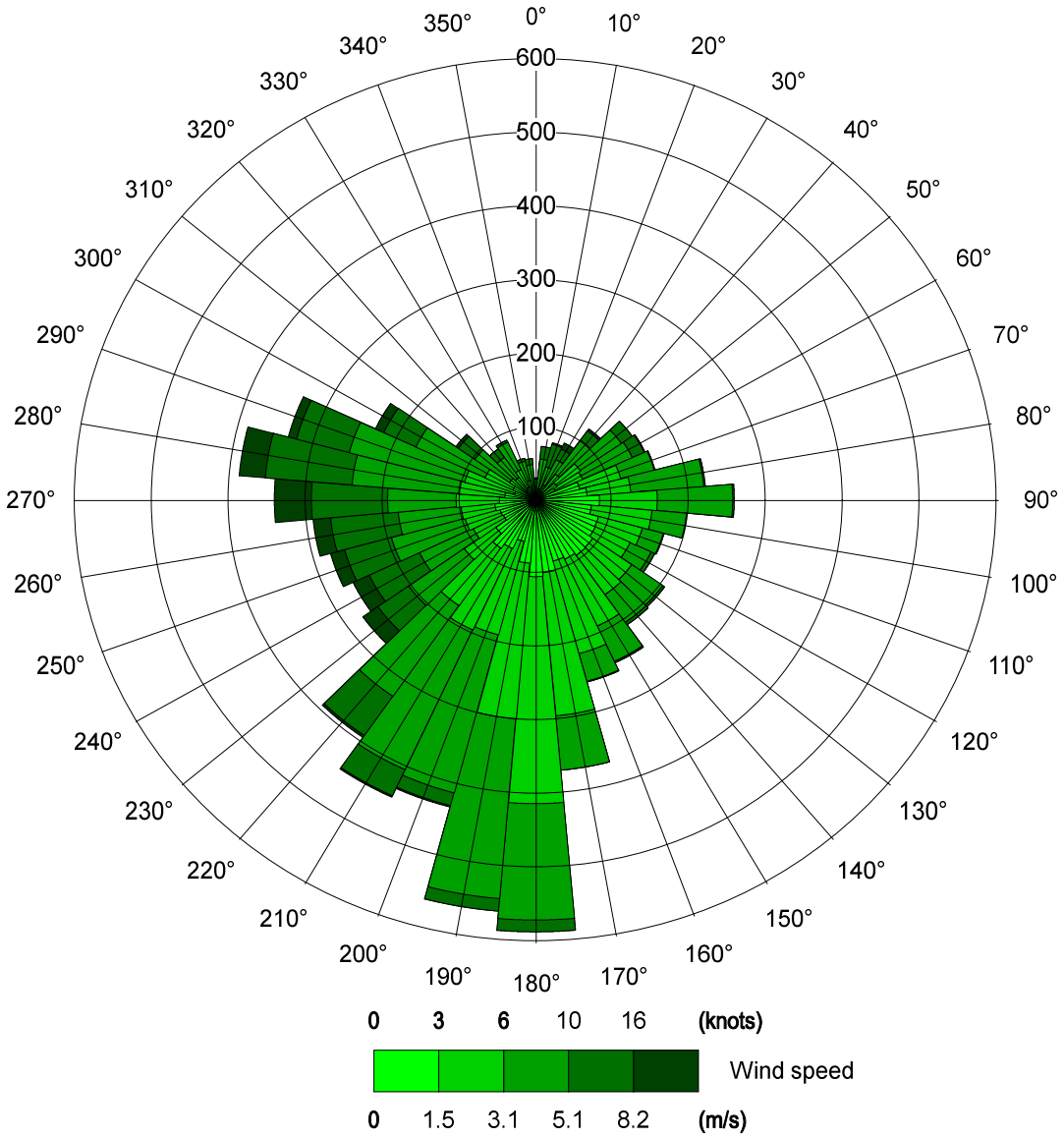


Figure:	**6.4**		
Title:	**2019 Wind Rose – Manchester Ringway Metrological Station**		
Project:	**Plot G, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

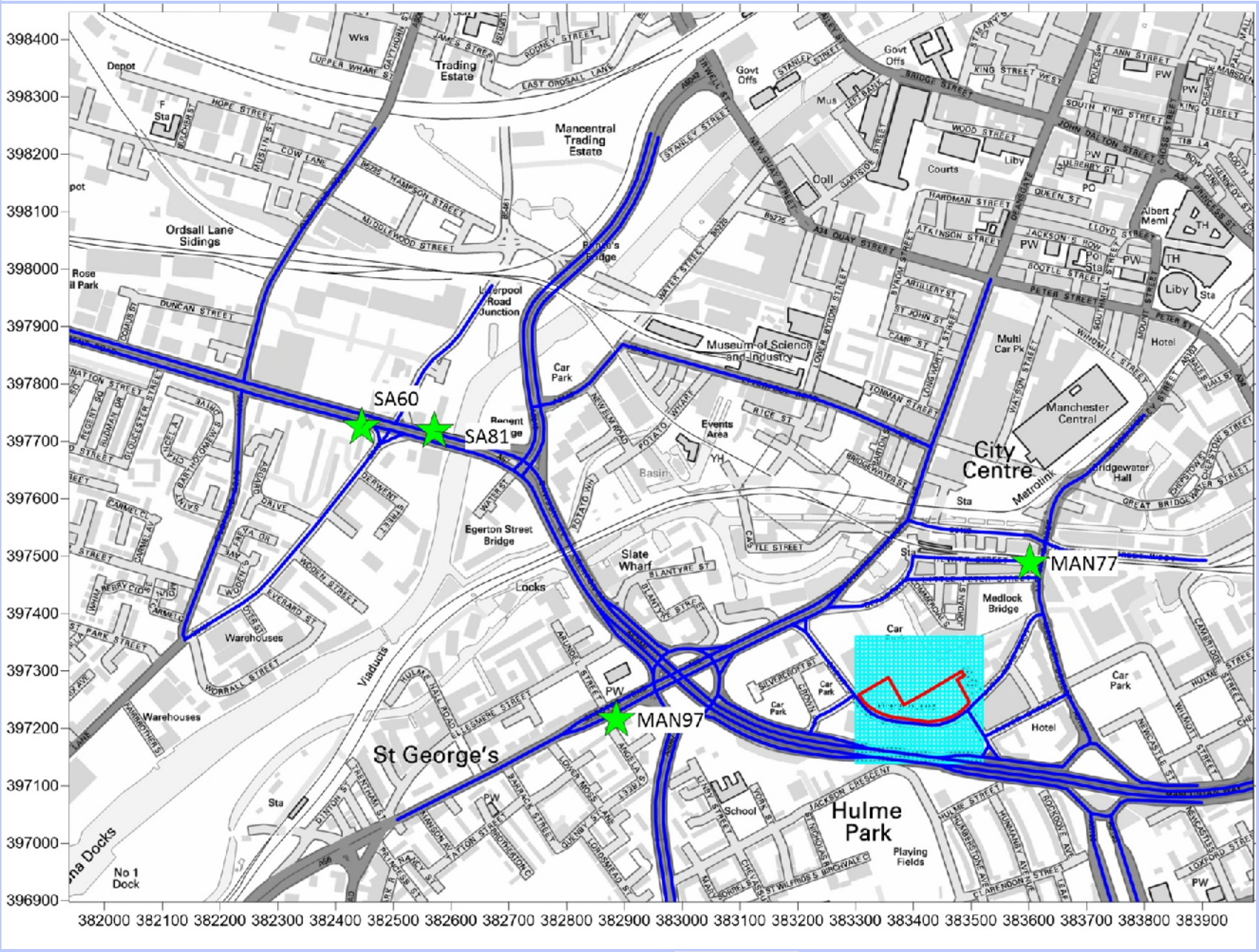


Figure:	**6.5**		
Title:	**ADMS-Road Inputs**		
Project:	**Plot F, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

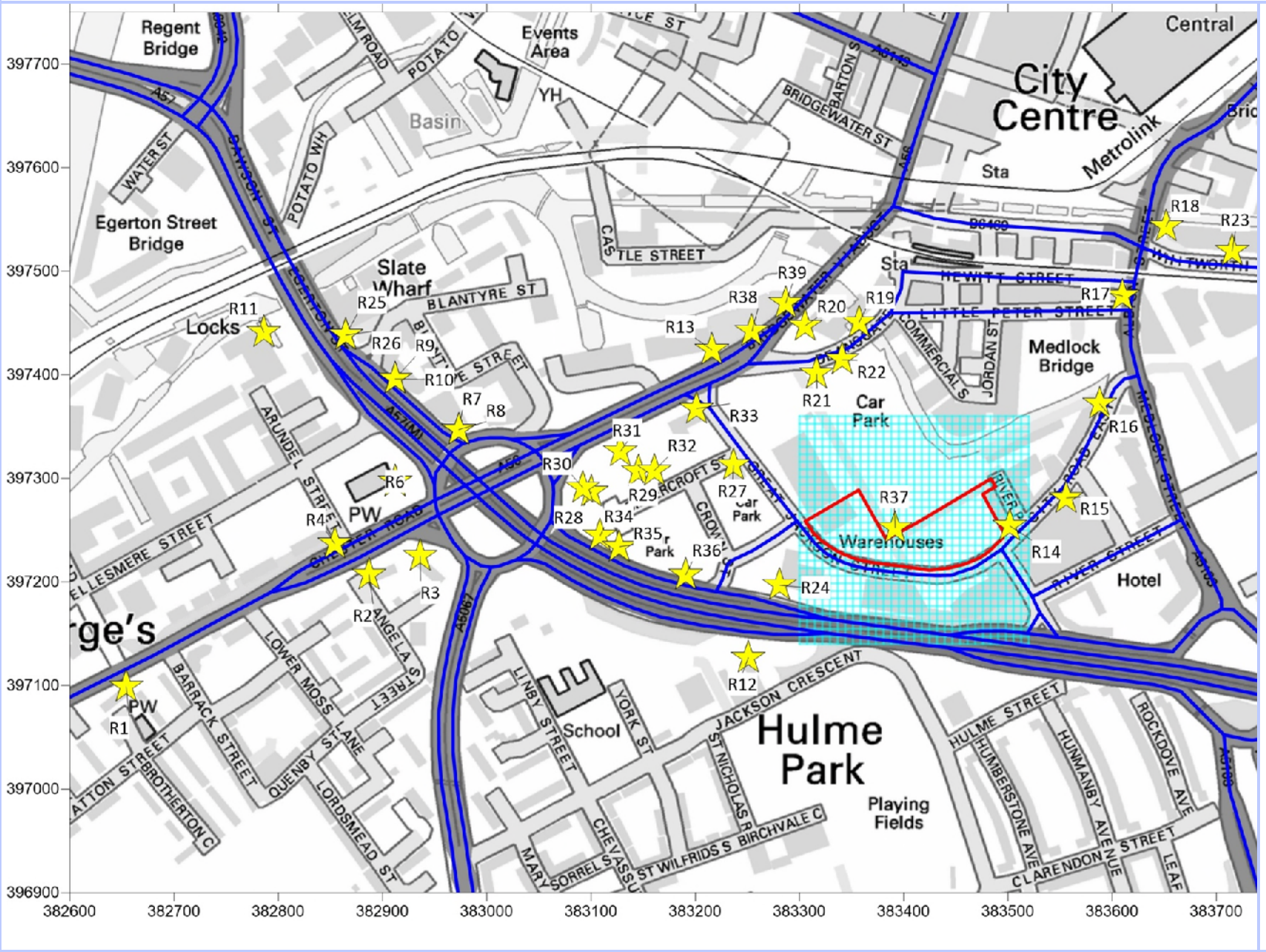


Figure:	**6.6**		
Title:	**ADMS-Road Inputs**		
Project:	**Plot F, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

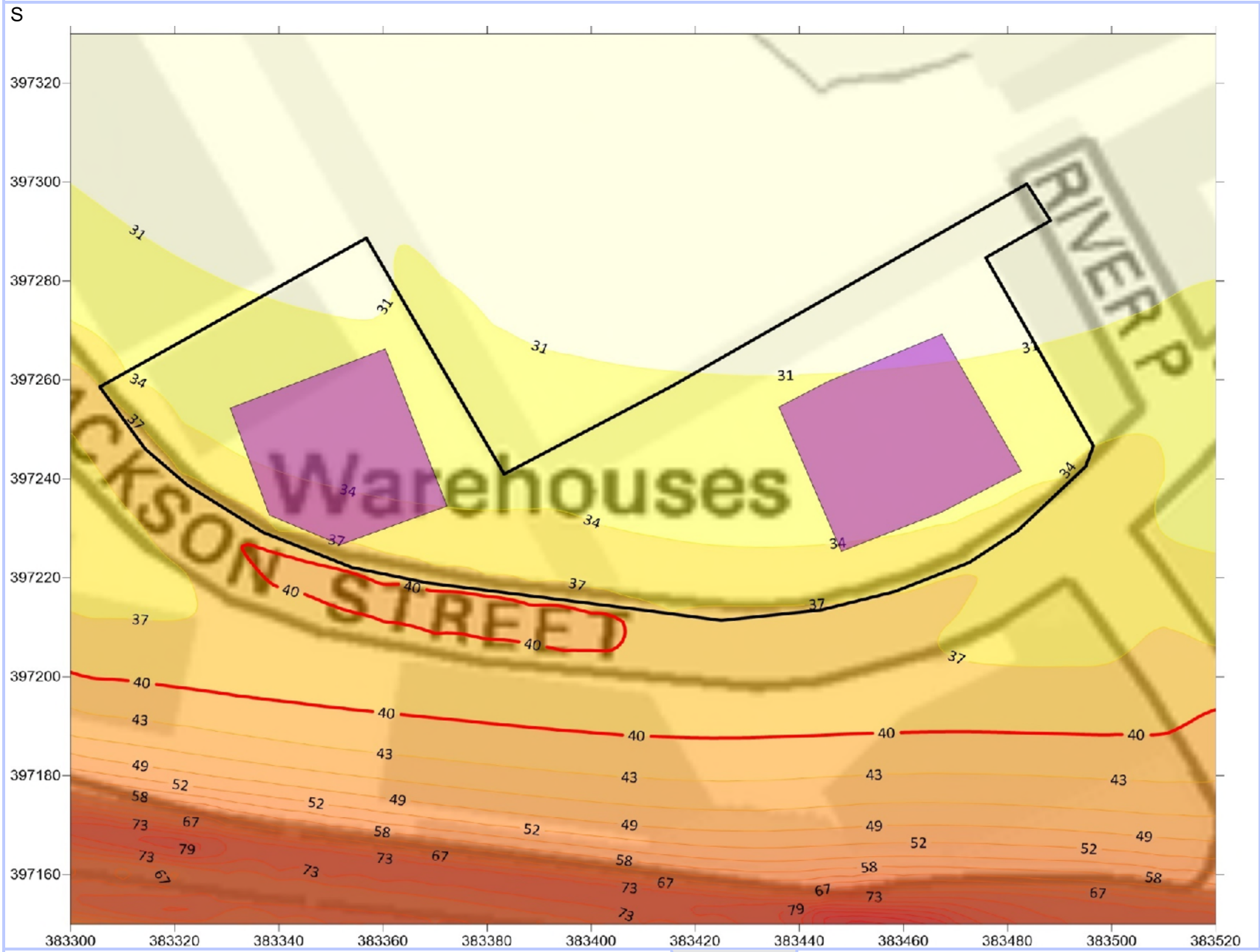


Figure:	**6.7**		
Title:	**Predicted Annual Mean NO_2 Concentrations (µg/m^3) 2027 DS Ground Floor Level 00 (z = 1.5m)**		
Project:	**Plot F, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

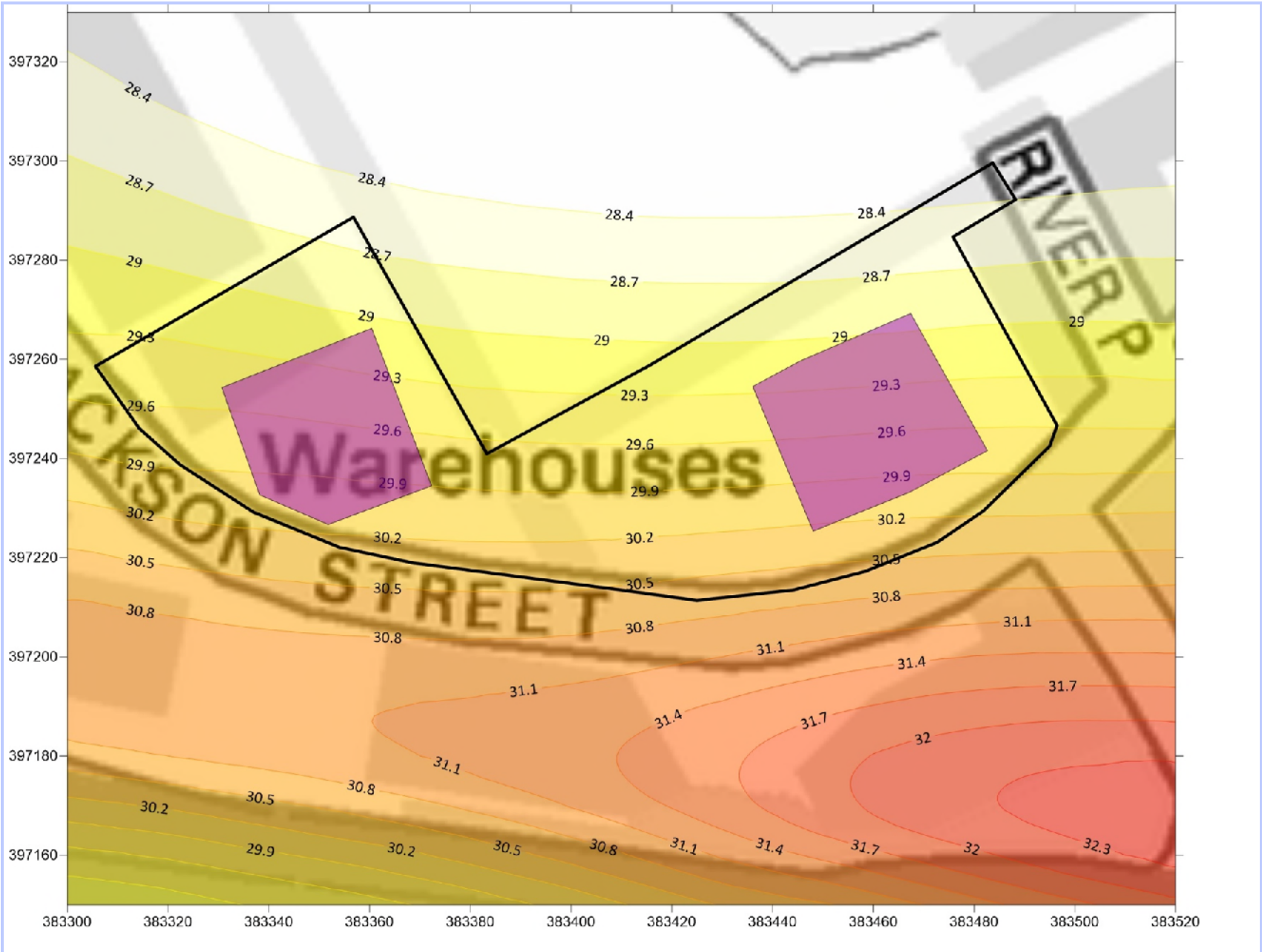


Figure:	**6.8**		
Title:	**Predicted Annual Mean NO_2 Concentrations (µg/m³) 2027 DS Upper Ground Floor Level 01 (z = 10.5m)**		
Project:	**Plot F, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

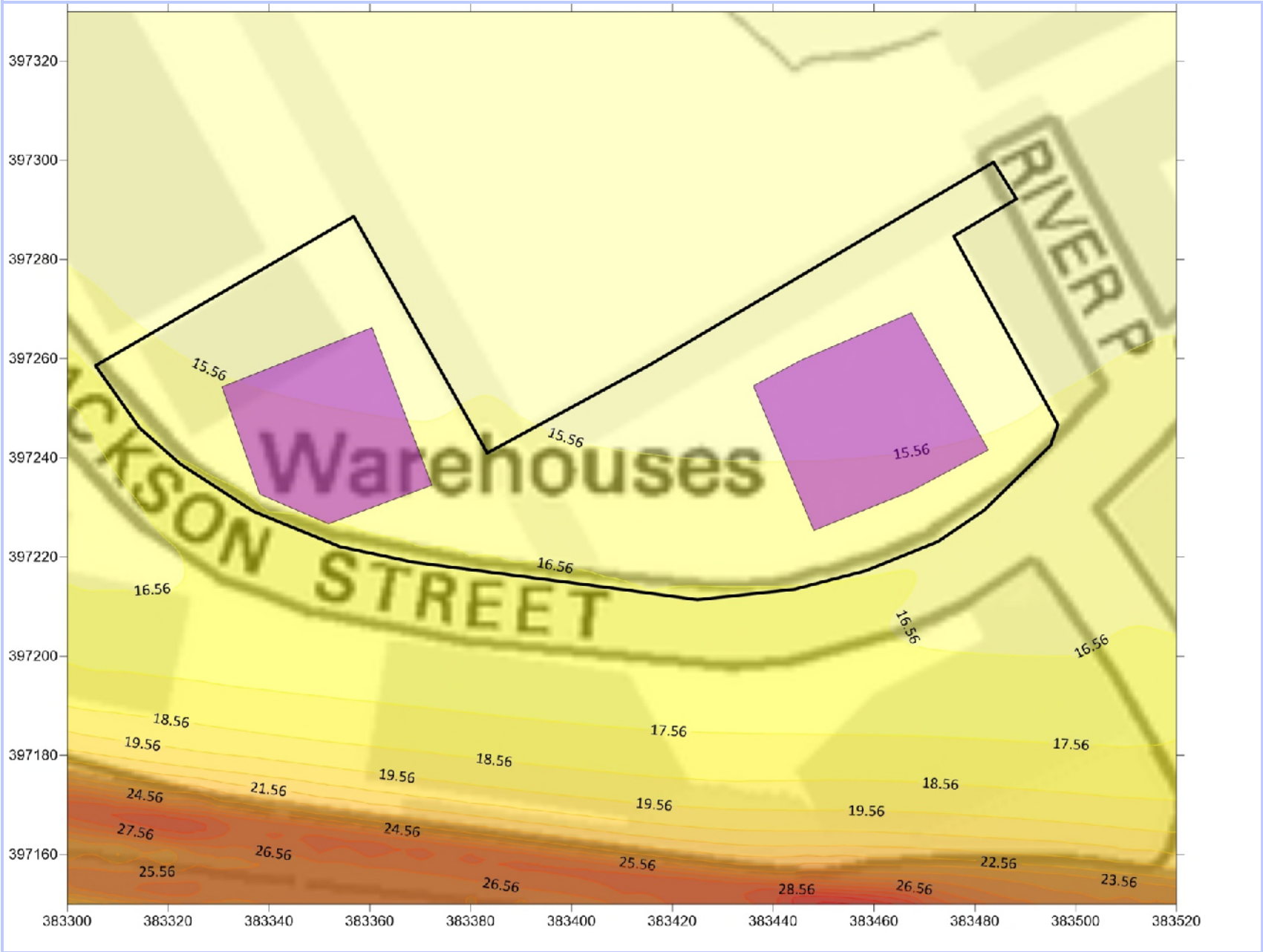


Figure:	**6.9**		
Title:	**Predicted Annual Mean PM_{10} Concentrations (µg/m^3) 2027 DS Ground Floor Level 00 (z = 1.5m)**		
Project:	**Plot F, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

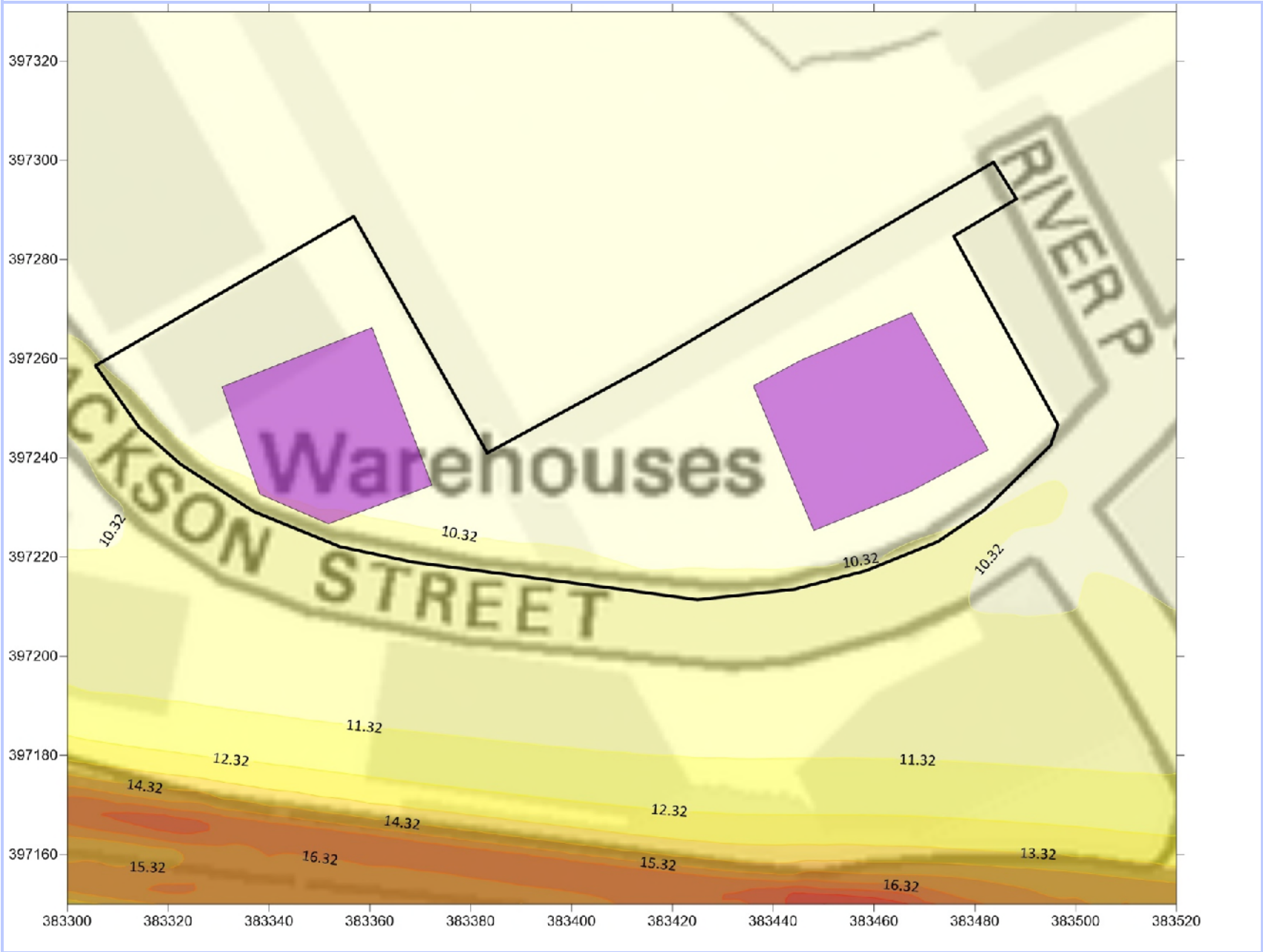


Figure:	**6.10**		
Title:	**Predicted Annual Mean $PM_{2.5}$ Concentrations (µg/m³) 2027 DS Ground Floor Level 00 (z = 1.5m)**		
Project:	**Plot F, Great Jackson Street**		
Date:	**07/2021**	**Scale:**	**NTS**

Appendix 6.3 – Construction Phase Assessment Methodology

6.3 Construction Phase Assessment Methodology

Construction Phase Dust Risk Assessment

6.1 There is the potential for fugitive dust emissions to occur as a result of construction phase activities. These have been assessed in accordance with the methodology outlined within the Institute of Air Quality Management (IAQM) document 'Guidance on the Assessment of Dust from Demolition and Construction[Error! Bookmark not defined.].

6.2 Activities on the Site have been divided into four types to reflect their different potential impacts. These are:

- Demolition
- Earthworks;
- Construction; and
- Trackout.

6.3 The potential for dust emissions was assessed for each activity that is likely to take place and considered three separate dust effects:

- Annoyance due to dust soiling;
- Harm to ecological receptors; and
- The risk of health effects due to a significant increase in exposure to PM_{10}.

Step 1

6.4 Step 1 screens the requirement for a more detailed assessment. Should human receptors be identified within 350m from the Site boundary or 50m from the construction vehicle route up to 500m from the Site entrance, then the assessment should proceed to Step 2. Additionally, should ecological receptors be identified within 50m of the boundary Site or 50m from the construction vehicle route up to 500m from the Site entrance, then the assessment should also proceed to Step 2.

6.5 Should sensitive receptors not be present within the relevant distances then negligible impacts would be expected and further assessment is not necessary.

Step 2

6.6 Step 2 assesses the risk of potential dust impacts. A site is allocated to a risk category based on two factors:

- The scale and nature of the works, which determines the magnitude of dust arising as: small, medium or large (Step 2A); and
- The sensitivity of the area to dust impacts, which can be defined as low, moderate or high sensitivity (Step 2B).

6.7 The two factors are combined in Step 2C to determine the risk of dust impacts without mitigation applied.

6.8 Step 2A defines the potential magnitude of dust emission through the construction phase. The relevant assessment criteria are summarised in **Table 6.1.**

Table 6.1 Construction Dust –Impact Magnitude of Emissions

Magnitude	Activity	Qualifying Criteria
Major	Demolition	• Total building volume greater than 50,000m^3 • Potentially dusty construction material (e.g. concrete) • On-site crushing and screening • Demolition activities greater than 20m above ground level
	Earthworks	• Total site area greater than 10,000m^2 • Potentially dusty soil type (e.g. clay, which will be prone to suspension when dry due to small particle size) • More than 10 heavy earth moving vehicles active at any one time • Formation of bunds greater than 8m in height • More than 100,000 tonnes of material moved
	Construction	• Total building volume greater than 100,000m3 • On site concrete batching • Sandblasting
	Trackout	• More than 50 Heavy Duty Vehicle (HDV) trips per day • Potentially dusty surface material (e.g. high clay content) • Unpaved road length greater than 100m
Moderate	Demolition	• Total building volume 20,000m3 to 50,000m3 • Potentially dusty construction material • Demolition activities 10m to 20m above ground level
	Earthworks	• Total site area 2,500m2 to 10,000m2 • Moderately dusty soil type (e.g. silt) • 5 to 10 heavy earth moving vehicles active at any one time • Formation of bunds 4m to 8m in height • Total material moved 20,000 tonnes to 100,000 tonnes
	Construction	• Total building volume 25,000m3 to 100,000m3 • Potentially dusty construction material (e.g. concrete) • On site concrete batching
	Trackout	• 10 to 50 HDV trips per day • Moderately dusty surface material (e.g. high clay content) • Unpaved road length 50m to 100m
Minor	Demolition	• Total building volume under 20,000m3 • Construction material with low potential for dust release (e.g. metal cladding or timber) • Demolition activities less than 10m above ground level • Demolition during wetter months
	Earthworks	• Total site area less than 2,500m2 • Soil type with large grain size (e.g. Sand) • Less than 5 heavy earth moving vehicles active at any one time • Formation of bunds less than 4m in height • Total material moved less than 20,000 tonnes • Earthworks during wetter months
	Construction	• Total building volume less than 25,000m^3 • Construction material with low potential for dust release (e.g. metal cladding or timber)
	Trackout	• Less than 10 HDV trips per day

Magnitude	Activity	Qualifying Criteria
		• Surface material with low potential for dust release • Unpaved road length less than 50m

6.9 Step 2B defines the sensitivity of the area around the Site for construction, earthworks and trackout activities. The factors influencing the sensitivity of the area are shown in *Table 6.**2***.

Table 6.2 Examples of Factors Defining Sensitivity of Area

Sensitivity	Receptor	
	Human	**Ecological**
High	• Users would expect high levels of amenity • High aesthetic or value property • People expected to be present continuously for extended period of time • Locations where members of the public are exposed over a time period relevant to the AQO for PM_{10} e.g. residential properties, hospitals, schools and residential care homes	• Internationally or national designated site e.g. Special Area of Conservation
Moderate	• User would expect to enjoy a reasonable level of amenity • Aesthetics or value of their property could be diminished by soiling • People or property wouldn't reasonably be expected to be present here continuously or regularly for extended periods as part of the normal pattern of use of the land e.g. parks and places of work	• Nationally designated site e.g. Sites of Special Scientific Interest
Low	• Enjoyment of amenity would not reasonably be expected • Property would not be expected to be diminished in appearance • Transient exposure, where people would only be expected to be present for limited periods e.g. public footpaths, playing fields, shopping streets, farmland, footpaths, short term car parks and roads.	• Locally designated site e.g. Local Nature Reserve

6.10 The guidance also provides the following factors to consider when determining the sensitivity of an area to potential dust impacts during the construction phase:

- Any history of dust generating activities in the area;
- The likelihood of concurrent dust generating activity on nearby sites;
- Any pre-existing screening in between the source and the receptors;
- Any conclusions drawn from analysing local meteorological data which accurately represent the area; and if relevant the season during which works will take place;
- Any conclusions drawn from local topography;
- Duration of the potential impact, as a receptor may become more sensitive over time; and,
- Any known specific receptor sensitivities which go beyond the classifications given in the document.

6.11 These factors have been considered in the undertaking of this assessment.

6.12 The criteria to determine the sensitivity of the area to dust soiling effects on people and property is shown in *Table 6.**3***.

Table 6.3 Sensitivity of the Area to Dust Soiling Effects on People and Property

Receptor Sensitivity	Number of Receptors	Distance from the source (m)			
		<20	<50	<100	<350
High	>100	High	High	Moderate	Low
	10 - 100	High	Moderate	Low	Low
	1 - 10	Moderate	Low	Low	Low
Moderate	>1	Moderate	Low	Low	Low
Low	>1	Low	Low	Low	Low

6.13 *Table 6.**4*** outlines the criteria to determine sensitivity of the area to human health impacts.

Table 6.4 Sensitivity of the Area to Health Impacts

Receptor Sensitivity	Annual Mean PM_{10} Concentration	Number of Receptors	Distance from the source (m)				
			<20	<50	<100	<200	<350
High	**Greater than 32µg/m³**	**>100**	**High**	**High**	**High**	**Moderate**	**Low**
		10 - 100	**High**	**High**	**Moderate**	**Low**	**Low**
		1 - 10	**High**	**Moderate**	**Low**	**Low**	**Low**
	23 - 32µg/m³	**>100**	**High**	**High**	**Low**	**Low**	**Low**
		10 - 100	**High**	Moderate	**Low**	**Low**	**Low**
		1 - 10	**High**	Moderate	**Low**	**Low**	**Low**
	24 - 28µg/m³	**>100**	**High**	Moderate	**Low**	**Low**	**Low**
		10 - 100	**High**	Moderate	**Low**	**Low**	**Low**
		1 - 10	Moderate	**Low**	**Low**	**Low**	**Low**
	Less than 24µg/m³	**>100**	Moderate	**Low**	**Low**	**Low**	**Low**
		10 - 100	**Low**	**Low**	**Low**	**Low**	**Low**
		1 - 10	**Low**	**Low**	**Low**	**Low**	**Low**
Moderate	**-**	**>10**	**High**	Moderate	**Low**	**Low**	**Low**
	-	**1 - 10**	Moderate	**Low**	**Low**	**Low**	**Low**
Low	**-**	**>1**	**Low**	**Low**	**Low**	**Low**	**Low**

6.14 *Table 6.**5*** details the criteria used to determine the sensitivity of the area to ecological impacts.

Table 6.5 Sensitivity of the Area to Ecological Impacts

Receptor Sensitivity	Distance from the source (m)	
	<20	>50
High	High	Moderate
Moderate	Moderate	Low
Low	Low	Low

6.15 Step 2C combines the dust emission magnitude with the sensitivity of the area to determine the risk of unmitigated impacts

6.16 *Table 6.**6*** outlines the sensitivity of the area to demolition activities.

Table 6.6 Dust Risk Category from Demolition

Receptor Sensitivity	Dust Emission Magnitude		
	Large	**Medium**	**Low**
High	High	Moderate	Moderate
Moderate	Moderate	Moderate	Low
Low	Low	Low	Low

6.17 *Table 6.**7*** outlines the risk category from earthworks and construction activities.

Table 6.7 Dust Risk Category from Earthworks and Construction

Receptor Sensitivity	Dust Emission Magnitude		
	Large	**Medium**	**Low**
High	High	Moderate	Moderate
Moderate	Moderate	Moderate	Low
Low	Low	Low	Low

6.18 *Table 6.**8*** outlines the risk category from trackout activities.

Table 6.8 Dust Risk Category from Trackout

Receptor Sensitivity	Dust Emission Magnitude		
	Large	**Medium**	**Low**
High	High	Moderate	Moderate
Moderate	Moderate	Moderate	Low
Low	Low	Low	Low

Step 3

6.19 Step 3 requires the identification of site-specific mitigation measures within the IAQM guidance to reduce potential dust impacts based upon the relevant risk categories identified in Step 2. For sites with negligible risk, mitigation measures beyond those required by legislation are not required. However, additional controls may be applied as part of good practice.

Step 4

6.20 Once the risk of dust impacts has been determined and the appropriate mitigation measures identified, the final step is to determine the significance of any residual impacts. For almost all construction activity, the aim should be to control effects through the use of effective mitigation. Experience shows that this is normally possible. Hence the residual effect will normally be 'not significant' in EIA terms. This has been described as negligible within this report to provide continuity between assessment terminologies.

6.21 The determination of significance relies on professional judgement and reasoning should be provided as far as practicable. This has been considered throughout the assessment when defining predicted impacts. .

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Appendix 6.4 – Construction Phase Road Vehicle Exhaust Impact Assessment

APPENDIX 6.4 – CONSTRUCTION PHASE ROAD VEHICLE EXHUAST IMPACTS

PLOT F, GREAT JACKSON STREET, MANCHESTER

AQ4162

JULY 2021

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Predicted Concentrations at Sensitive Receptors

Nitrogen Dioxide (NO_2)

Annual mean NO_2 concentrations were predicted for 2024 DM and DS scenarios and are summarised in Table AIII 1. Reference should be made to Figure 6 for a graphical representation of these locations.

Table AIII 1: Predicted Annual Mean NO_2 Concentrations

Potential Impact		Predicted Annual Mean NO_2 Concentration ($\mu g/m^3$)		
		DM	DS	Change
R1	Residential - Chester Road	28.68	28.79	0.11
R2	Residential - Chester Road	30.42	30.72	0.30
R3	Residential - Chester Road	30.59	30.91	0.32
R4	Residential - Chester Road	**51.89**	**52.76**	0.87
R5	Residential - Chester Road	39.19	39.70	0.51
R6	Residential - Chester Road	37.74	38.22	0.48
R7	Residential - Egerton Street	**46.63**	**47.25**	0.62
R8	Residential - Egerton Street	36.58	36.98	0.40
R9	Residential - Egerton Street	38.64	39.01	0.37
R10	Residential - Egerton Street	33.48	33.77	0.29
R11	Residential - Egerton Street	28.86	29.02	0.16
R12	Residential - Mancunian Way	30.79	30.94	0.15
R13	Residential - Chester Road	38.34	38.84	0.50
R14	Residential - City Road East	30.95	31.26	0.31
R15	Residential - City Road East	30.33	30.63	0.30
R16	Residential - City Road East	30.87	31.50	0.63
R17	Residential - Albion Street	32.81	33.32	0.51
R18	Residential - Albion Street	31.25	31.57	0.32
R19	Residential - Old Deansgate	30.64	31.00	0.36
R20	Residential - Bidgewater Viaduct	32.46	32.82	0.36
R21	Residential - Owens Street	29.56	29.99	0.43
R22	Residential - Owens Street	29.78	30.11	0.33
R23	Residential - Whitworth Street East	30.38	30.73	0.35
R24	Commercial - Great Jackson Street	**42.36**	**42.69**	0.33
R25	Commercial - Egerton Street	**50.69**	**51.08**	0.39
R26	Commercial - Egerton Street	**46.04**	**46.40**	0.36
R27	Commercial - Gaddum House	31.20	31.50	0.30
R28	Residential - Silvercroft Street	37.57	37.91	0.34
R29	Residential - Silvercroft Street	32.92	33.18	0.26
R30	Residential - Silvercroft Street	36.72	37.05	0.33
R31	Residential - Silvercroft Street	33.36	33.65	0.29

Potential Impact		Predicted Annual Mean NO_2 Concentration ($\mu g/m^3$)		
		DM	DS	Change
R32	Residential - Silvercroft Street	31.57	31.80	0.23
R33	Residential - Silvercroft Street	34.69	35.27	0.58
R34	Educational - Crown Street Phase 2	**44.18**	**44.56**	0.38
R35	Residential - Crown Street Phase 3	**44.39**	**44.77**	0.38
R36	Residential - Crown Street Phase 4	**47.28**	**47.70**	0.42
R37	Residential - Deansgate Square South Tower	31.51	32.00	0.49
R38	Residential - Castle Wharf	30.56	30.82	0.26
R39	Residential - Castle Wharf	30.83	31.09	0.26

As indicated in Table AIII.1, annual mean NO_2 concentrations exceeded the AQO at 8 sensitive human receptor locations considered in both the DM and DS scenarios. Critically, there are no new exceedances of the AQO is anticipated as a result of the Proposed Development. The remaining 28 human receptor locations were predicted to experience NO_2 concentrations below the relevant AQO.

Predicted impacts on annual mean NO_2 concentrations are summarised in Table AIII 2.

Table AIII 2: Predicted NO_2 Impacts

Potential Impact		% Change in Concentration Relative to AQO	Long Term Average Concentration	Impact
R1	Residential - Chester Road	0.20	75% or Less of AQO	Negligible
R2	Residential - Chester Road	0.30	76-94% of AQO	Negligible
R3	Residential - Chester Road	0.25	76-94% of AQO	Negligible
R4	Residential - Chester Road	1.05	110+ of AQO	Moderate
R5	Residential - Chester Road	0.48	95-102% of AQO	Negligible
R6	Residential - Chester Road	0.45	95-102% of AQO	Negligible
R7	Residential - Egerton Street	0.47	110+ of AQO	Negligible
R8	Residential - Egerton Street	0.33	76-94% of AQO	Negligible
R9	Residential - Egerton Street	0.30	95-102% of AQO	Negligible
R10	Residential - Egerton Street	0.25	76-94% of AQO	Negligible
R11	Residential - Egerton Street	0.15	75% or Less of AQO	Negligible
R12	Residential - Mancunian Way	0.13	76-94% of AQO	Negligible
R13	Residential - Chester Road	0.55	95-102% of AQO	Slight
R14	Residential - City Road East	0.30	76-94% of AQO	Negligible
R15	Residential - City Road East	0.28	76-94% of AQO	Negligible
R16	Residential - City Road East	0.70	76-94% of AQO	Negligible
R17	Residential - Albion Street	0.10	76-94% of AQO	Negligible
R18	Residential - Albion Street	0.08	76-94% of AQO	Negligible
R19	Residential - Old Deansgate	0.32	76-94% of AQO	Negligible
R20	Residential - Bidgewater Viaduct	0.37	76-94% of AQO	Negligible

Potential Impact		% Change in Concentration Relative to AQO	Long Term Average Concentration	Impact
R21	Residential - Owens Street	0.70	75% or Less of AQO	Negligible
R22	Residential - Owens Street	0.40	75% or Less of AQO	Negligible
R23	Residential - Whitworth Street East	0.05	76-94% of AQO	Negligible
R24	Commercial - Great Jackson Street	0.30	103-109% of AQO	Negligible
R25	Commercial - Egerton Street	0.38	110+ of AQO	Negligible
R26	Commercial - Egerton Street	0.33	110+ of AQO	Negligible
R27	Commercial - Gaddum House	0.32	76-94% of AQO	Negligible
R28	Residential - Silvercroft Street	0.27	95-102% of AQO	Negligible
R29	Residential - Silvercroft Street	0.22	76-94% of AQO	Negligible
R30	Residential - Silvercroft Street	0.27	76-94% of AQO	Negligible
R31	Residential - Silvercroft Street	0.25	76-94% of AQO	Negligible
R32	Residential - Silvercroft Street	0.20	76-94% of AQO	Negligible
R33	Residential - Silvercroft Street	0.53	76-94% of AQO	Negligible
R34	Educational - Crown Street Phase 2	0.33	110+ of AQO	Negligible
R35	Residential - Crown Street Phase 3	0.33	110+ of AQO	Negligible
R36	Residential - Crown Street Phase 4	0.35	110+ of AQO	Negligible
R37	Residential - Deansgate Square South Tower	0.87	76-94% of AQO	Negligible
R38	Residential - Castle Wharf	0.28	76-94% of AQO	Negligible
R39	Residential - Castle Wharf	0.25	76-94% of AQO	Negligible

Particulate Matter (PM_{10})

Annual mean PM_{10} concentrations were predicted for 2024 DM and DS scenarios and are summarised Table AIII 3.

Table AIII 3: Predicted Annual Mean PM_{10} Concentrations

Potential Impact		Predicted Annual Mean PM_{10} Concentration ($\mu g/m^3$)		
		DM	DS	Change
R1	Residential - Chester Road	14.90	14.92	0.02
R2	Residential - Chester Road	14.90	14.91	0.01
R3	Residential - Chester Road	14.99	15.00	0.01
R4	Residential - Chester Road	17.98	18.02	0.04
R5	Residential - Chester Road	16.40	16.42	0.02
R6	Residential - Chester Road	16.16	16.18	0.02
R7	Residential - Egerton Street	18.23	18.25	0.02
R8	Residential - Egerton Street	16.27	16.29	0.02
R9	Residential - Egerton Street	17.01	17.03	0.02
R10	Residential - Egerton Street	15.85	15.86	0.01
R11	Residential - Egerton Street	14.99	15.00	0.01

Potential Impact		Predicted Annual Mean PM_{10} Concentration ($\mu g/m^3$)		
		DM	DS	Change
R12	Residential - Mancunian Way	15.21	15.22	0.01
R13	Residential - Chester Road	16.48	16.51	0.03
R14	Residential - City Road East	15.17	15.19	0.02
R15	Residential - City Road East	15.03	15.05	0.02
R16	Residential - City Road East	15.05	15.08	0.03
R17	Residential - Albion Street	15.31	15.32	0.01
R18	Residential - Albion Street	15.08	15.08	0.00
R19	Residential - Old Deansgate	15.06	15.08	0.02
R20	Residential - Bidgewater Viaduct	15.38	15.40	0.02
R21	Residential - Owens Street	14.84	14.88	0.04
R22	Residential - Owens Street	14.90	14.92	0.02
R23	Residential - Whitworth Street East	14.82	14.82	0.00
R24	Commercial - Great Jackson Street	17.92	17.95	0.03
R25	Commercial - Egerton Street	20.31	20.34	0.03
R26	Commercial - Egerton Street	19.06	19.09	0.03
R27	Commercial - Gaddum House	15.19	15.21	0.02
R28	Residential - Silvercroft Street	16.49	16.51	0.02
R29	Residential - Silvercroft Street	15.51	15.53	0.02
R30	Residential - Silvercroft Street	16.28	16.29	0.01
R31	Residential - Silvercroft Street	15.53	15.55	0.02
R32	Residential - Silvercroft Street	15.25	15.26	0.01
R33	Residential - Silvercroft Street	15.72	15.74	0.02
R34	Educational - Crown Street Phase 2	18.24	18.27	0.03
R35	Residential - Crown Street Phase 3	18.34	18.36	0.02
R36	Residential - Crown Street Phase 4	19.13	19.16	0.03
R37	Residential - Deansgate Square South Tower	15.34	15.38	0.04
R38	Residential - Castle Wharf	14.99	15.01	0.02
R39	Residential - Castle Wharf	15.04	15.06	0.02

As indicated in Table AIII.3 annual mean PM_{10} concentrations were below the relevant AQO at all receptor locations considered. Predicted impacts on annual mean PM_{10} concentrations are summarised in Table AIII 4.

Table AII 4: Predicted PM_{10} Impacts

Potential Impact		% Change in Concentration Relative to AQO	Long Term Average Concentration	Impact
R1	Residential - Chester Road	0.05	75% or Less of AQO	Negligible
R2	Residential - Chester Road	0.02	75% or Less of AQO	Negligible
R3	Residential - Chester Road	0.02	75% or Less of AQO	Negligible

Potential Impact		% Change in Concentration Relative to AQO	Long Term Average Concentration	Impact
R4	Residential - Chester Road	0.10	75% or Less of AQO	Negligible
R5	Residential - Chester Road	0.05	75% or Less of AQO	Negligible
R6	Residential - Chester Road	0.05	75% or Less of AQO	Negligible
R7	Residential - Egerton Street	0.05	75% or Less of AQO	Negligible
R8	Residential - Egerton Street	0.05	75% or Less of AQO	Negligible
R9	Residential - Egerton Street	0.05	75% or Less of AQO	Negligible
R10	Residential - Egerton Street	0.02	75% or Less of AQO	Negligible
R11	Residential - Egerton Street	0.02	75% or Less of AQO	Negligible
R12	Residential - Mancunian Way	0.02	75% or Less of AQO	Negligible
R13	Residential - Chester Road	0.08	75% or Less of AQO	Negligible
R14	Residential - City Road East	0.05	75% or Less of AQO	Negligible
R15	Residential - City Road East	0.05	75% or Less of AQO	Negligible
R16	Residential - City Road East	0.07	75% or Less of AQO	Negligible
R17	Residential - Albion Street	0.02	75% or Less of AQO	Negligible
R18	Residential - Albion Street	0.00	75% or Less of AQO	Negligible
R19	Residential - Old Deansgate	0.05	75% or Less of AQO	Negligible
R20	Residential - Bidgewater Viaduct	0.05	75% or Less of AQO	Negligible
R21	Residential - Owens Street	0.10	75% or Less of AQO	Negligible
R22	Residential - Owens Street	0.05	75% or Less of AQO	Negligible
R23	Residential - Whitworth Street East	0.00	75% or Less of AQO	Negligible
R24	Commercial - Great Jackson Street	0.07	75% or Less of AQO	Negligible
R25	Commercial - Egerton Street	0.08	75% or Less of AQO	Negligible
R26	Commercial - Egerton Street	0.08	75% or Less of AQO	Negligible
R27	Commercial - Gaddum House	0.05	75% or Less of AQO	Negligible
R28	Residential - Silvercroft Street	0.05	75% or Less of AQO	Negligible
R29	Residential - Silvercroft Street	0.05	75% or Less of AQO	Negligible
R30	Residential - Silvercroft Street	0.02	75% or Less of AQO	Negligible
R31	Residential - Silvercroft Street	0.05	75% or Less of AQO	Negligible
R32	Residential - Silvercroft Street	0.02	75% or Less of AQO	Negligible
R33	Residential - Silvercroft Street	0.05	75% or Less of AQO	Negligible
R34	Educational - Crown Street Phase 2	0.08	75% or Less of AQO	Negligible
R35	Residential - Crown Street Phase 3	0.05	75% or Less of AQO	Negligible
R36	Residential - Crown Street Phase 4	0.08	75% or Less of AQO	Negligible
R37	Residential - Deansgate Square South Tower	0.10	75% or Less of AQO	Negligible
R38	Residential - Castle Wharf	0.05	75% or Less of AQO	Negligible
R39	Residential - Castle Wharf	0.05	75% or Less of AQO	Negligible

Particulate Matter ($PM_{2.5}$)

Annual mean $PM_{2.5}$ concentrations were predicted for 2024 DM and DS scenarios and are summarised Table AIII 5.

Table AII 5: Predicted Annual Mean $PM_{2.5}$ Concentrations

Potential Impact		Predicted Annual Mean $PM_{2.5}$ Concentration (µg/m^3)		
		DM	DS	Change
R1	Residential - Chester Road	9.56	9.56	0.00
R2	Residential - Chester Road	9.57	9.58	0.01
R3	Residential - Chester Road	9.63	9.63	0.00
R4	Residential - Chester Road	11.47	11.49	0.02
R5	Residential - Chester Road	10.47	10.48	0.01
R6	Residential - Chester Road	10.32	10.33	0.01
R7	Residential - Egerton Street	11.52	11.54	0.02
R8	Residential - Egerton Street	10.37	10.38	0.01
R9	Residential - Egerton Street	10.78	10.79	0.01
R10	Residential - Egerton Street	10.11	10.12	0.01
R11	Residential - Egerton Street	9.60	9.61	0.01
R12	Residential - Mancunian Way	9.69	9.70	0.01
R13	Residential - Chester Road	10.45	10.47	0.02
R14	Residential - City Road East	9.67	9.68	0.01
R15	Residential - City Road East	9.59	9.60	0.01
R16	Residential - City Road East	9.61	9.63	0.02
R17	Residential - Albion Street	9.77	9.77	0.00
R18	Residential - Albion Street	9.63	9.63	0.00
R19	Residential - Old Deansgate	9.61	9.62	0.01
R20	Residential - Bidgewater Viaduct	9.80	9.81	0.01
R21	Residential - Owens Street	9.48	9.51	0.03
R22	Residential - Owens Street	9.51	9.53	0.02
R23	Residential - Whitworth Street East	9.48	9.49	0.01
R24	Commercial - Great Jackson Street	11.26	11.27	0.01
R25	Commercial - Egerton Street	12.68	12.69	0.01
R26	Commercial - Egerton Street	11.96	11.97	0.01
R27	Commercial - Gaddum House	9.68	9.70	0.02
R28	Residential - Silvercroft Street	10.44	10.45	0.01
R29	Residential - Silvercroft Street	9.87	9.88	0.01
R30	Residential - Silvercroft Street	10.32	10.33	0.01
R31	Residential - Silvercroft Street	9.89	9.90	0.01
R32	Residential - Silvercroft Street	9.72	9.73	0.01
R33	Residential - Silvercroft Street	10.00	10.02	0.02

Potential Impact		Predicted Annual Mean $PM_{2.5}$ Concentration ($\mu g/m^3$)		
		DM	DS	Change
R34	Educational - Crown Street Phase 2	11.45	11.46	0.01
R35	Residential - Crown Street Phase 3	11.50	11.52	0.02
R36	Residential - Crown Street Phase 4	11.96	11.97	0.01
R37	Residential - Deansgate Square South Tower	9.77	9.79	0.02
R38	Residential - Castle Wharf	9.57	9.58	0.01
R39	Residential - Castle Wharf	9.60	9.61	0.01

As indicated in Table AIII.5 annual mean $PM_{2.5}$ concentrations were below the relevant AQO at all receptor locations considered. Predicted impacts on annual mean $PM_{2.5}$ concentrations are summarised in Table AIII 6.

Table AIII 6: Predicted $PM_{2.5}$ Impacts

Potential Impact		% Change in Concentration Relative to AQO	Long Term Average Concentration	Impact
R1	Residential - Chester Road	0.00	75% or Less of AQO	Negligible
R2	Residential - Chester Road	0.04	75% or Less of AQO	Negligible
R3	Residential - Chester Road	0.00	75% or Less of AQO	Negligible
R4	Residential - Chester Road	0.08	75% or Less of AQO	Negligible
R5	Residential - Chester Road	0.04	75% or Less of AQO	Negligible
R6	Residential - Chester Road	0.04	75% or Less of AQO	Negligible
R7	Residential - Egerton Street	0.08	75% or Less of AQO	Negligible
R8	Residential - Egerton Street	0.04	75% or Less of AQO	Negligible
R9	Residential - Egerton Street	0.04	75% or Less of AQO	Negligible
R10	Residential - Egerton Street	0.04	75% or Less of AQO	Negligible
R11	Residential - Egerton Street	0.04	75% or Less of AQO	Negligible
R12	Residential - Mancunian Way	0.04	75% or Less of AQO	Negligible
R13	Residential - Chester Road	0.08	75% or Less of AQO	Negligible
R14	Residential - City Road East	0.04	75% or Less of AQO	Negligible
R15	Residential - City Road East	0.04	75% or Less of AQO	Negligible
R16	Residential - City Road East	0.08	75% or Less of AQO	Negligible
R17	Residential - Albion Street	0.00	75% or Less of AQO	Negligible
R18	Residential - Albion Street	0.00	75% or Less of AQO	Negligible
R19	Residential - Old Deansgate	0.04	75% or Less of AQO	Negligible
R20	Residential - Bidgewater Viaduct	0.04	75% or Less of AQO	Negligible
R21	Residential - Owens Street	0.12	75% or Less of AQO	Negligible
R22	Residential - Owens Street	0.08	75% or Less of AQO	Negligible
R23	Residential - Whitworth Street East	0.04	75% or Less of AQO	Negligible
R24	Commercial - Great Jackson Street	0.04	75% or Less of AQO	Negligible
R25	Commercial - Egerton Street	0.04	75% or Less of AQO	Negligible

Potential Impact		% Change in Concentration Relative to AQO	Long Term Average Concentration	Impact
R26	Commercial - Egerton Street	0.04	75% or Less of AQO	Negligible
R27	Commercial - Gaddum House	0.08	75% or Less of AQO	Negligible
R28	Residential - Silvercroft Street	0.04	75% or Less of AQO	Negligible
R29	Residential - Silvercroft Street	0.04	75% or Less of AQO	Negligible
R30	Residential - Silvercroft Street	0.04	75% or Less of AQO	Negligible
R31	Residential - Silvercroft Street	0.04	75% or Less of AQO	Negligible
R32	Residential - Silvercroft Street	0.04	75% or Less of AQO	Negligible
R33	Residential - Silvercroft Street	0.08	75% or Less of AQO	Negligible
R34	Educational - Crown Street Phase 2	0.04	75% or Less of AQO	Negligible
R35	Residential - Crown Street Phase 3	0.08	75% or Less of AQO	Negligible
R36	Residential - Crown Street Phase 4	0.04	75% or Less of AQO	Negligible
R37	Residential - Deansgate Square South Tower	0.08	75% or Less of AQO	Negligible
R38	Residential - Castle Wharf	0.04	75% or Less of AQO	Negligible
R39	Residential - Castle Wharf	0.04	75% or Less of AQO	Negligible

Appendix 6.5 – EIA Qualifications

Table 6.1 Competency Details of EIA Personnel

Discipline	Company	Personal Profile
Air Quality	Ensafe	**Joshua Davies (Principal Air Quality Consultant) BSc(Hons)** Josh has over five years' experience in the air quality sector. With one years' experience at senior level within Ensafe. His role involves the production and review of Air Quality Assessments and Environmental Impact Assessments (EIA) for a wide variety of clients ranging across residential, commercial and industrial sectors. He also has an in-depth knowledge of relevant Air Quality standards and methodologies in line with the Institute of Air Quality Management (IAQM) guidance. **Rachael Harrison (Air Quality Consultant), BSc(Hons), AMIEnvSci** Rachael is a member of the Institute of Environmental Science (IES) and Institute of Air Quality Management (IAQM), with over three years' experience in the air quality sector. Her role involves the production and review of Air Quality Assessments and Environmental Impact Assessments (EIA) for a wide variety of clients ranging across residential, commercial and industrial sectors. He also has an in-depth knowledge of relevant Air Quality standards and methodologies in line with the Institute of Air Quality Management (IAQM) guidance.

7. Climate Change

No Appendices

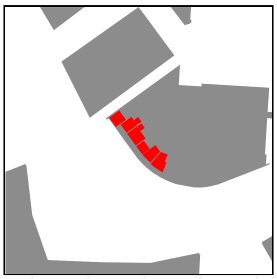
8. Daylight, Sunlight and Overshadowing

Appendix 8.1 – Drawings of the Baseline and Proposed Scenario

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD1

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





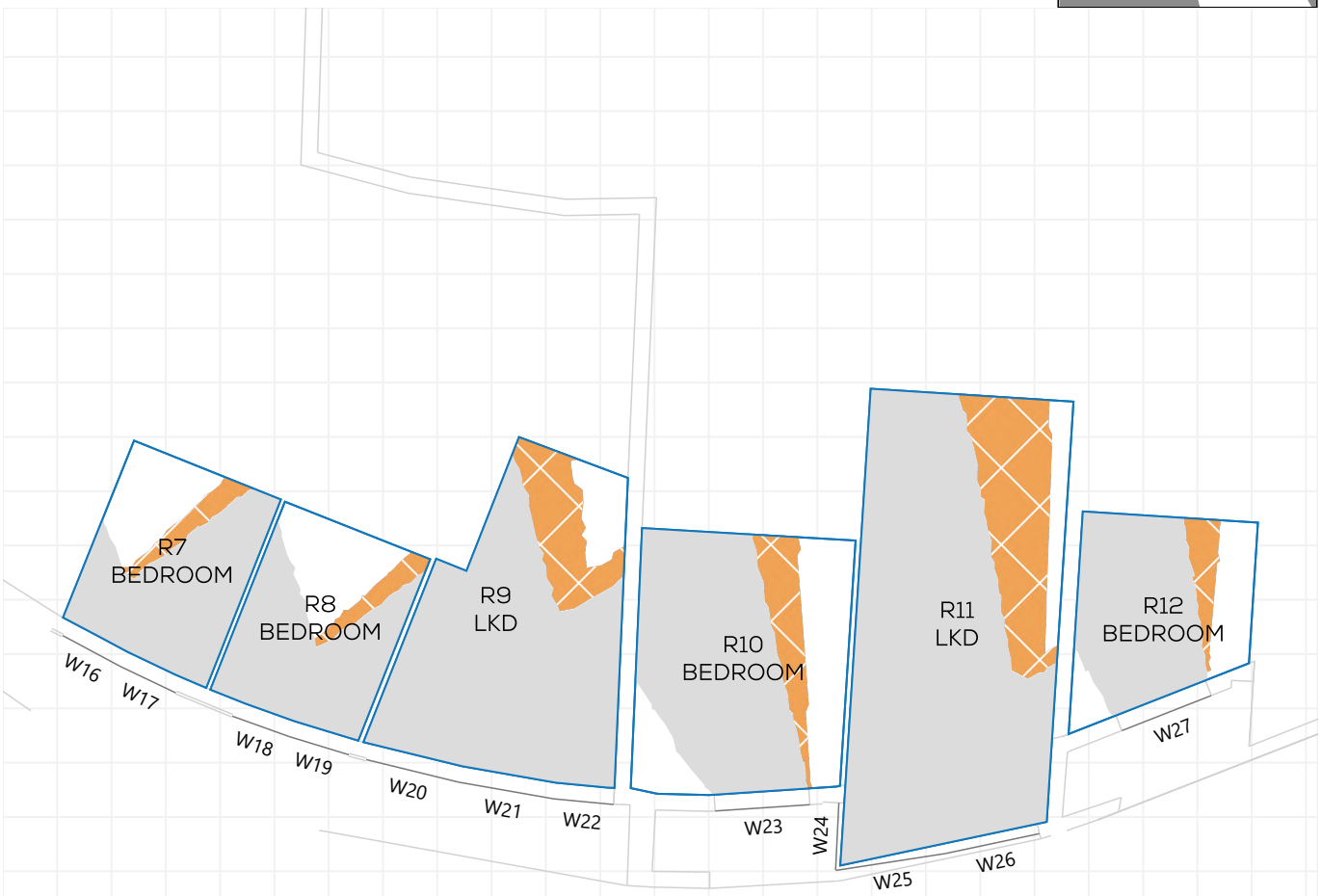
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F01	R1	RESIDENTIAL	BEDROOM	15.6	40.3	40.3	0.0	0
F01	R2	RESIDENTIAL	LKD	17.9	17.9	17.9	0.0	0
F01	R3	RESIDENTIAL	LKD	23.3	36.2	36.2	0.0	0
F01	R4	RESIDENTIAL	BEDROOM	10.5	52.9	42.8	1.1	19.1
F01	R5	RESIDENTIAL	LKD	16.5	96.2	32.8	10.5	65.9
F01	R6	RESIDENTIAL	LKD	20.9	90.6	30.9	12.5	65.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD2

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



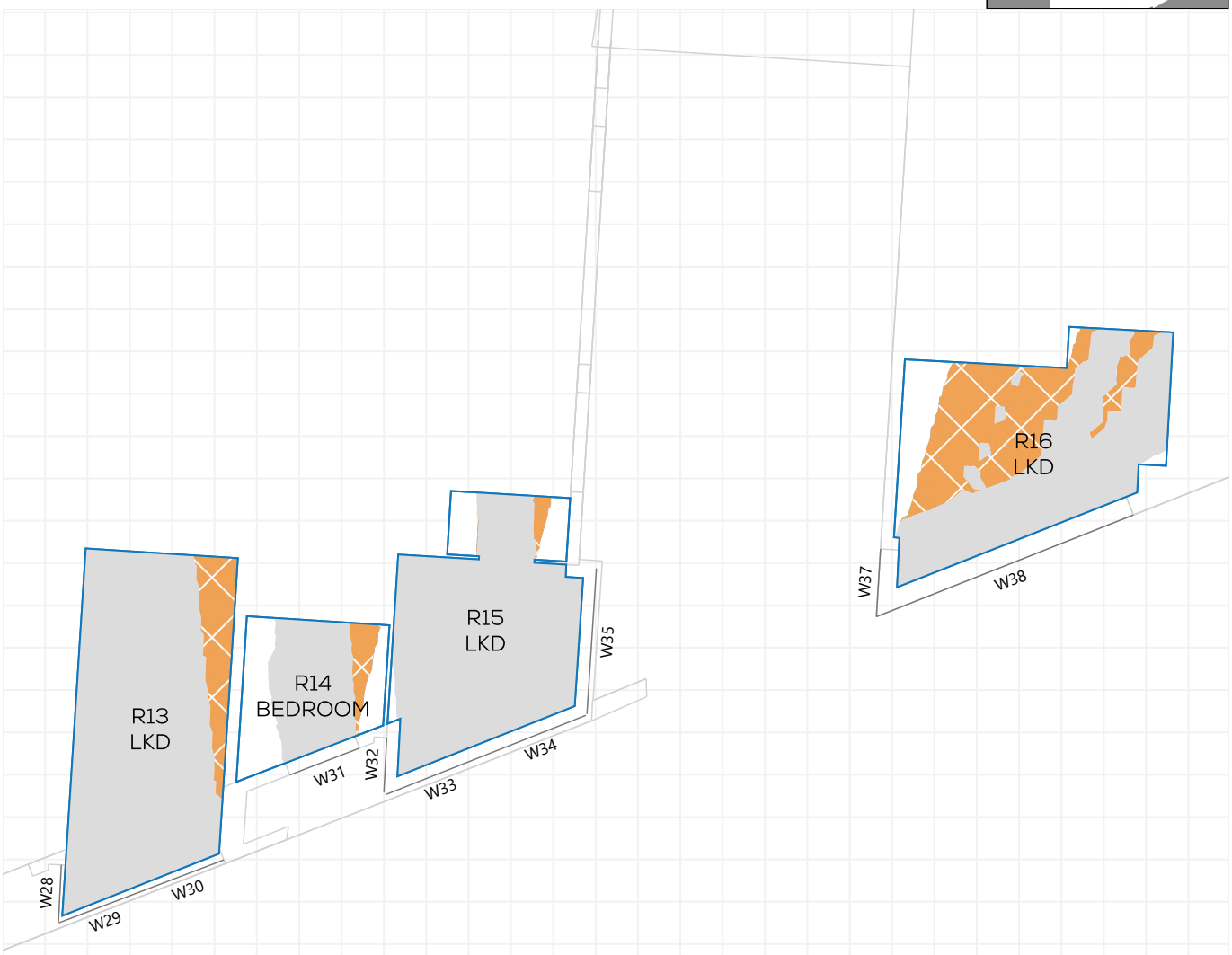
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F01	R7	RESIDENTIAL	BEDROOM	10.7	74.6	66.8	0.8	10.4
F01	R8	RESIDENTIAL	BEDROOM	10.6	71.7	64.6	0.7	9.8
F01	R9	RESIDENTIAL	LKD	20.6	93.1	78.8	3.0	15.4
F01	R10	RESIDENTIAL	BEDROOM	18.5	72.2	61	2.1	15.5
F01	R11	RESIDENTIAL	LKD	31.0	95.3	77	5.7	19.3
F01	R12	RESIDENTIAL	BEDROOM	10.8	75.8	66.8	1.0	11.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD3

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



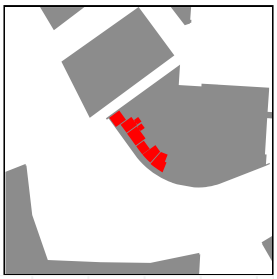
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F01	R13	RESIDENTIAL	LKD	28.2	100	88.6	3.2	11.4
F01	R14	RESIDENTIAL	BEDROOM	10.6	63.4	54.3	1.0	14.4
F01	R15	RESIDENTIAL	LKD	22.9	91	89.5	0.4	1.7
F01	R16	RESIDENTIAL	LKD	27.1	89.5	55.1	9.3	38.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
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DRAWING No.: 1366-REL02-IS01-DD4

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





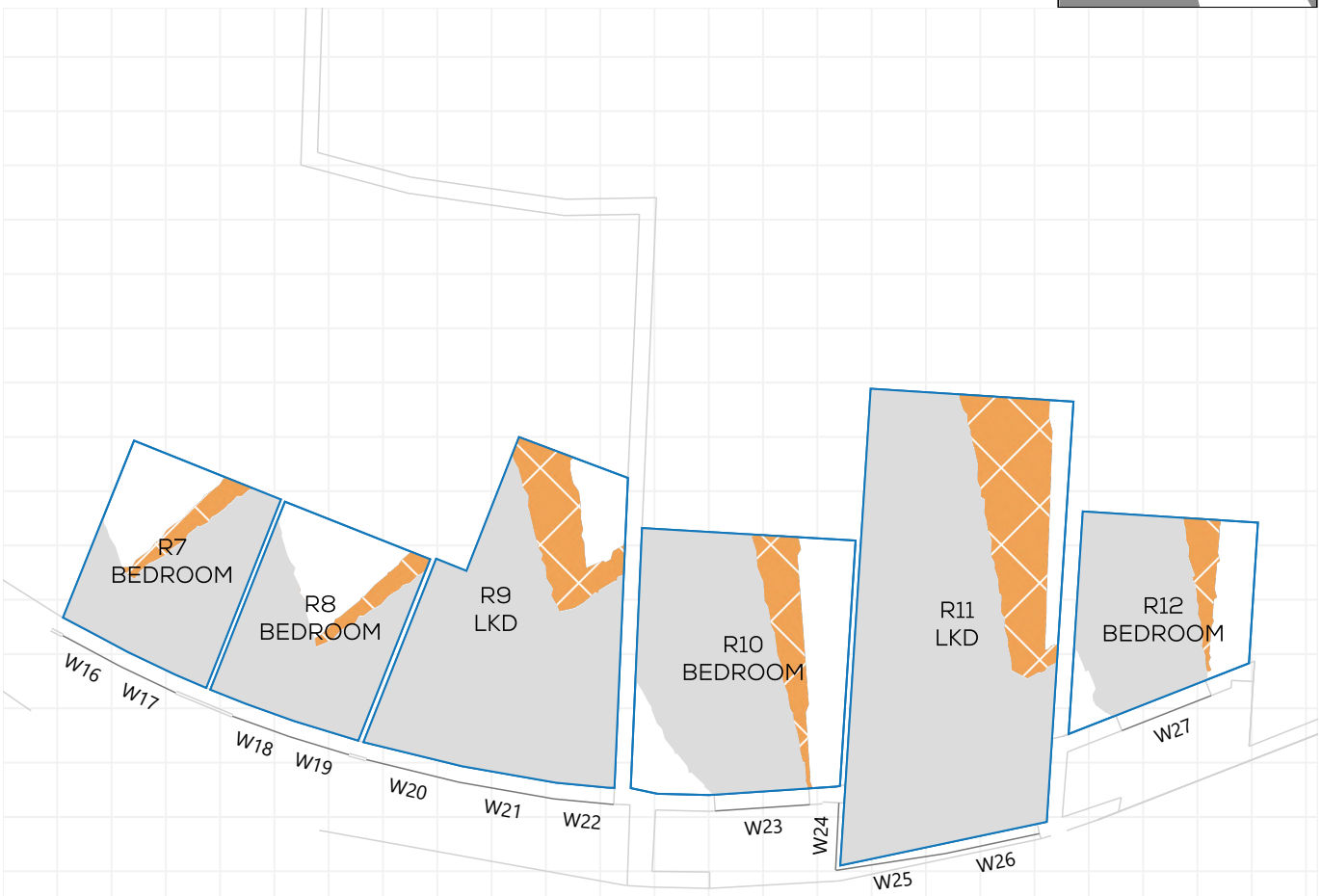
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F02	R1	RESIDENTIAL	BEDROOM	15.6	40.7	40.7	0.0	0
F02	R2	RESIDENTIAL	LKD	17.9	18.1	18.1	0.0	0
F02	R3	RESIDENTIAL	LKD	23.3	36.6	36.6	0.0	0
F02	R4	RESIDENTIAL	BEDROOM	10.5	50.9	42.9	0.8	15.6
F02	R5	RESIDENTIAL	LKD	16.5	96.3	33	10.5	65.8
F02	R6	RESIDENTIAL	LKD	20.9	90.9	30.4	12.7	66.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD5

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



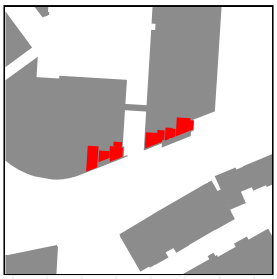
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F02	R7	RESIDENTIAL	BEDROOM	10.7	74.7	66.9	0.8	10.4
F02	R8	RESIDENTIAL	BEDROOM	10.6	71.6	64.7	0.7	9.7
F02	R9	RESIDENTIAL	LKD	20.6	92.9	78.8	2.9	15.2
F02	R10	RESIDENTIAL	BEDROOM	18.5	72.8	61.6	2.1	15.5
F02	R11	RESIDENTIAL	LKD	31.0	95.4	77	5.7	19.3
F02	R12	RESIDENTIAL	BEDROOM	10.8	76.5	67.5	1.0	11.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD6

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





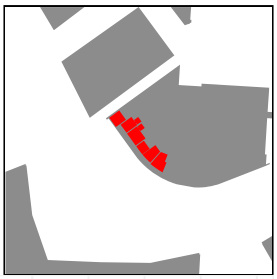
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F02	R13	RESIDENTIAL	LKD	28.2	100	88.6	3.2	11.4
F02	R14	RESIDENTIAL	BEDROOM	10.6	66.4	57.3	1.0	13.7
F02	R15	RESIDENTIAL	LKD	22.9	91.3	89.8	0.4	1.7
F02	R16	RESIDENTIAL	LKD	27.1	90.1	58.6	8.5	35
F02	R17	RESIDENTIAL	BEDROOM	11.7	29.9	24.6	0.6	17.7
F02	R18	RESIDENTIAL	LKD	27.8	84	84	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD7

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





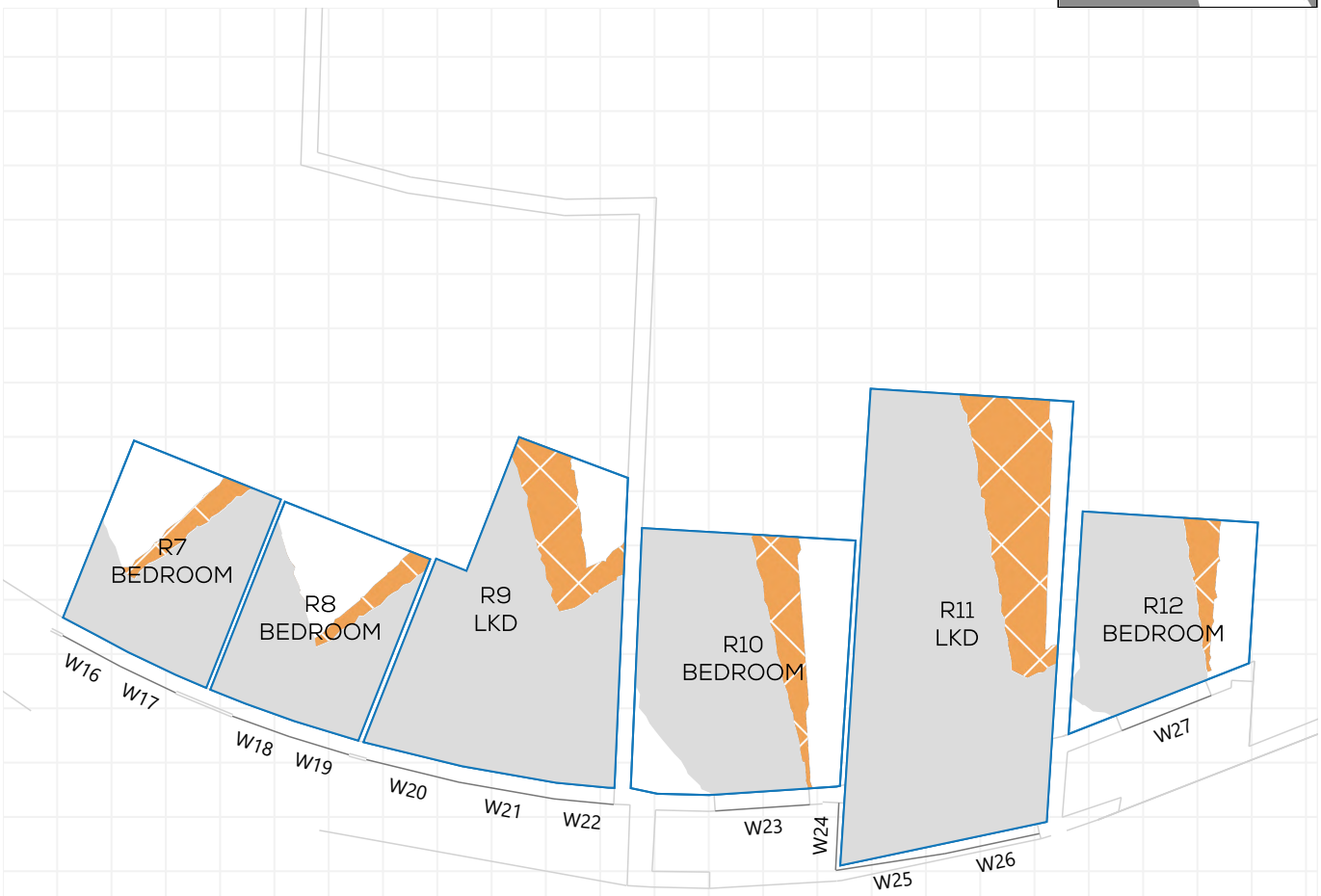
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F03	R1	RESIDENTIAL	BEDROOM	15.6	41.1	41.1	0.0	0
F03	R2	RESIDENTIAL	LKD	17.9	18.1	18.1	0.0	0
F03	R3	RESIDENTIAL	LKD	23.3	36.8	36.8	0.0	0
F03	R4	RESIDENTIAL	BEDROOM	10.5	51	43	0.8	15.6
F03	R5	RESIDENTIAL	LKD	16.5	96.3	33.1	10.5	65.7
F03	R6	RESIDENTIAL	LKD	20.9	90.9	30.4	12.7	66.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD8

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



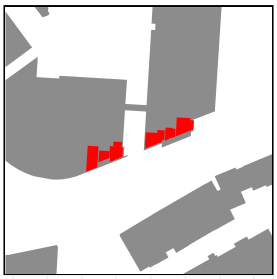
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F03	R7	RESIDENTIAL	BEDROOM	10.7	74.7	66.9	0.8	10.4
F03	R8	RESIDENTIAL	BEDROOM	10.6	71.6	64.7	0.7	9.7
F03	R9	RESIDENTIAL	LKD	20.6	93	78.6	3.0	15.5
F03	R10	RESIDENTIAL	BEDROOM	18.5	73.9	62.5	2.1	15.4
F03	R11	RESIDENTIAL	LKD	31.0	95.4	77	5.7	19.3
F03	R12	RESIDENTIAL	BEDROOM	10.8	78.9	69.9	1.0	11.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD9

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





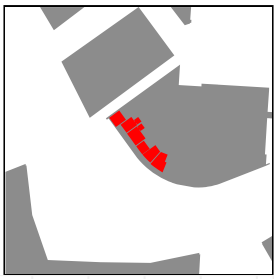
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F03	R13	RESIDENTIAL	LKD	28.2	100	88.6	3.2	11.4
F03	R14	RESIDENTIAL	BEDROOM	10.6	70.9	61.8	1.0	12.8
F03	R15	RESIDENTIAL	LKD	22.9	92.2	90.6	0.4	1.7
F03	R16	RESIDENTIAL	LKD	27.1	90.8	63.1	7.5	30.5
F03	R17	RESIDENTIAL	BEDROOM	11.7	41	34.4	0.8	15.9
F03	R18	RESIDENTIAL	LKD	27.8	85.5	85.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD10

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





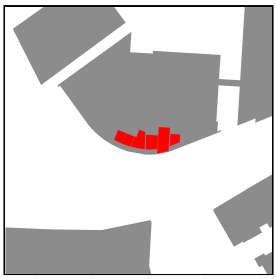
F04

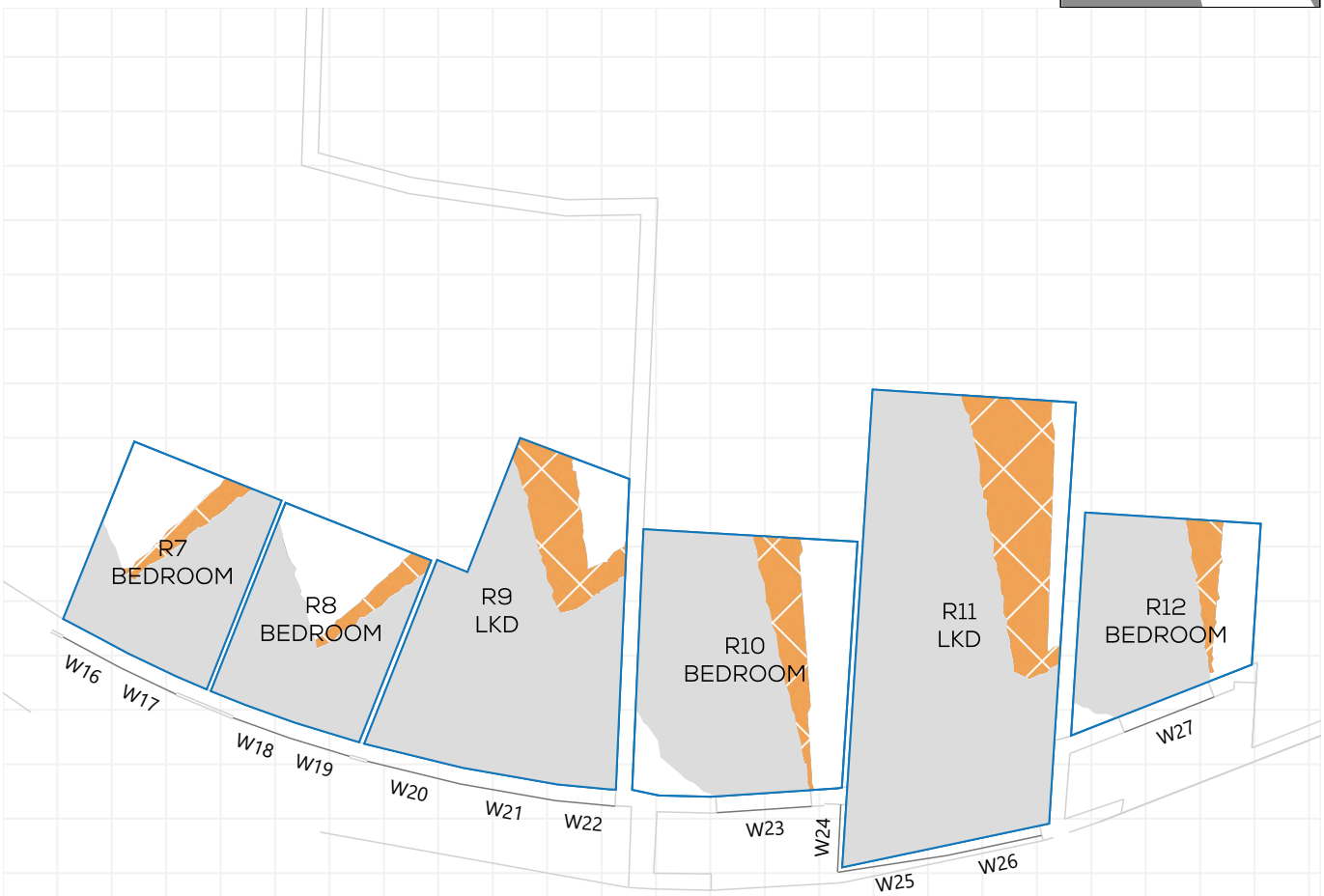
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F04	R1	RESIDENTIAL	BEDROOM	15.6	41.5	41.5	0.0	0
F04	R2	RESIDENTIAL	LKD	17.9	18.2	18.2	0.0	0
F04	R3	RESIDENTIAL	LKD	23.3	36.9	36.9	0.0	0
F04	R4	RESIDENTIAL	BEDROOM	10.5	51	43.1	0.8	15.5
F04	R5	RESIDENTIAL	LKD	16.5	96.3	33.1	10.5	65.6
F04	R6	RESIDENTIAL	LKD	20.9	90.9	30.4	12.7	66.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD11

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





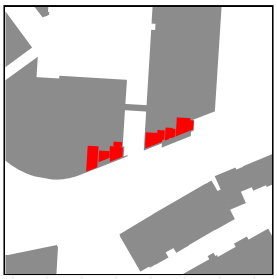
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F04	R7	RESIDENTIAL	BEDROOM	10.7	74.7	66.9	0.8	10.4
F04	R8	RESIDENTIAL	BEDROOM	10.6	71.6	64.7	0.7	9.8
F04	R9	RESIDENTIAL	LKD	20.6	93	78.5	3.0	15.6
F04	R10	RESIDENTIAL	BEDROOM	18.5	75.3	63.9	2.1	15.1
F04	R11	RESIDENTIAL	LKD	31.0	95.4	77	5.7	19.3
F04	R12	RESIDENTIAL	BEDROOM	10.8	79.6	70.5	1.0	11.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD12

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





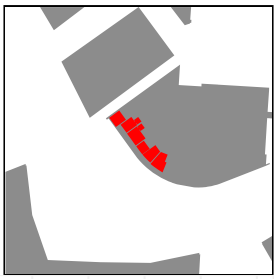
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F04	R13	RESIDENTIAL	LKD	28.2	100	88.6	3.2	11.4
F04	R14	RESIDENTIAL	BEDROOM	10.6	78.5	69.4	1.0	11.6
F04	R15	RESIDENTIAL	LKD	22.9	93.8	92.3	0.3	1.6
F04	R16	RESIDENTIAL	LKD	27.1	92.5	74.9	4.8	19
F04	R17	RESIDENTIAL	BEDROOM	11.7	60.1	52.5	0.9	12.6
F04	R18	RESIDENTIAL	LKD	27.8	86.9	86.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD13

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





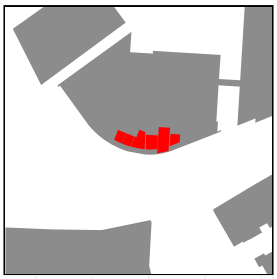
F05

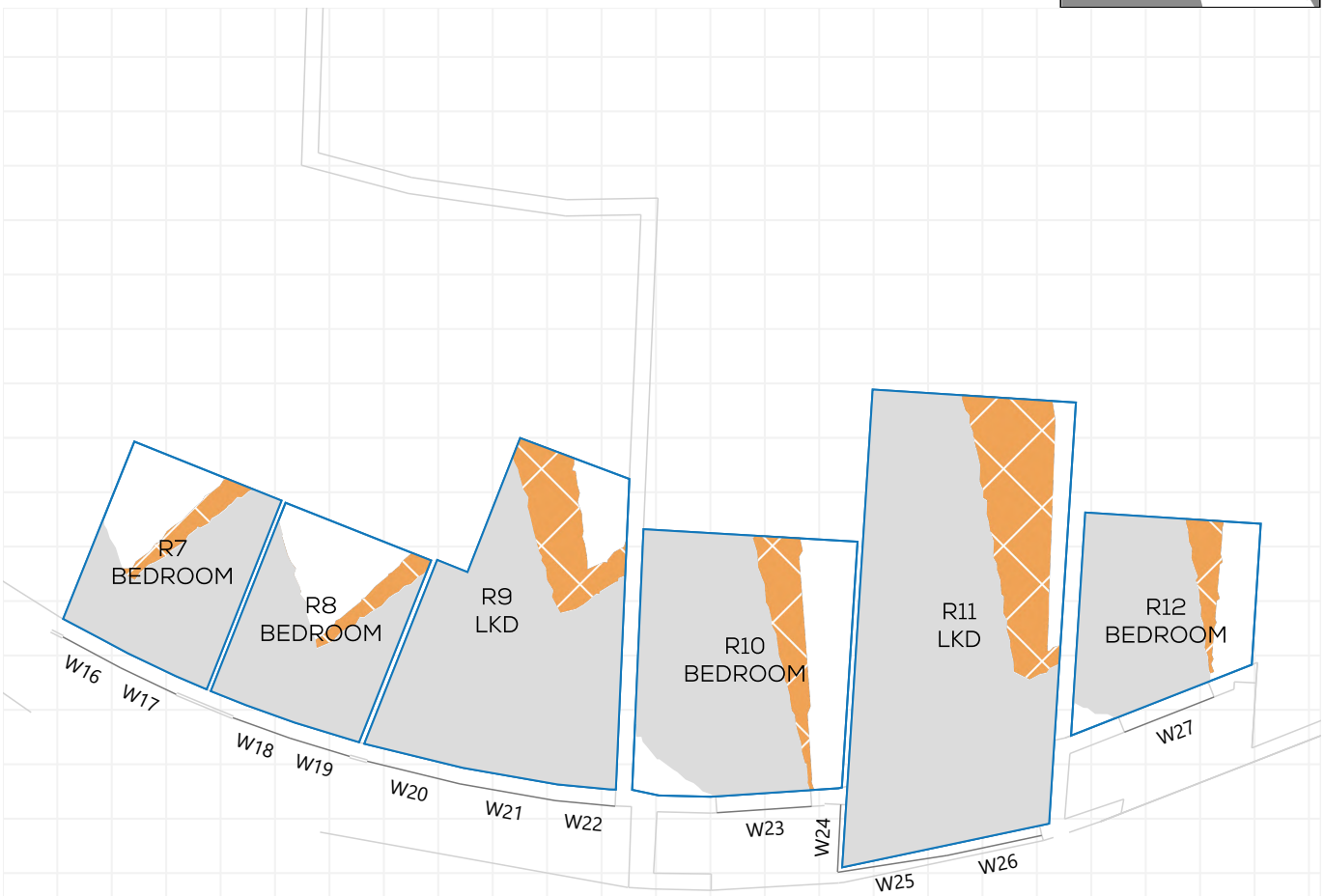
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F05	R1	RESIDENTIAL	BEDROOM	15.6	41.8	41.8	0.0	0
F05	R2	RESIDENTIAL	LKD	17.9	18.2	18.2	0.0	0
F05	R3	RESIDENTIAL	LKD	23.3	36.9	36.9	0.0	0
F05	R4	RESIDENTIAL	BEDROOM	10.5	51	43.1	0.8	15.5
F05	R5	RESIDENTIAL	LKD	16.5	96.3	33.1	10.5	65.6
F05	R6	RESIDENTIAL	LKD	20.9	90.9	30.4	12.7	66.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD14

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





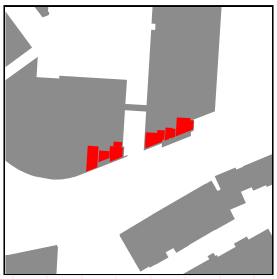
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F05	R7	RESIDENTIAL	BEDROOM	10.7	74.7	66.9	0.8	10.4
F05	R8	RESIDENTIAL	BEDROOM	10.6	71.7	64.7	0.7	9.8
F05	R9	RESIDENTIAL	LKD	20.6	93.1	78.5	3.0	15.6
F05	R10	RESIDENTIAL	BEDROOM	18.5	76.3	64.9	2.1	14.9
F05	R11	RESIDENTIAL	LKD	31.0	95.5	77	5.7	19.3
F05	R12	RESIDENTIAL	BEDROOM	10.8	79.6	70.5	1.0	11.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD15

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





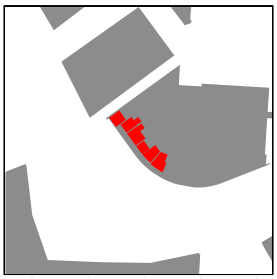
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F05	R13	RESIDENTIAL	LKD	28.2	100	88.6	3.2	11.4
F05	R14	RESIDENTIAL	BEDROOM	10.6	85.1	76.1	1.0	10.7
F05	R15	RESIDENTIAL	LKD	22.9	95.2	93.7	0.3	1.6
F05	R16	RESIDENTIAL	LKD	27.1	96.8	94	0.8	2.9
F05	R17	RESIDENTIAL	BEDROOM	11.7	78.5	71.4	0.8	9.1
F05	R18	RESIDENTIAL	LKD	27.8	91.1	90.9	0.1	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD16

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





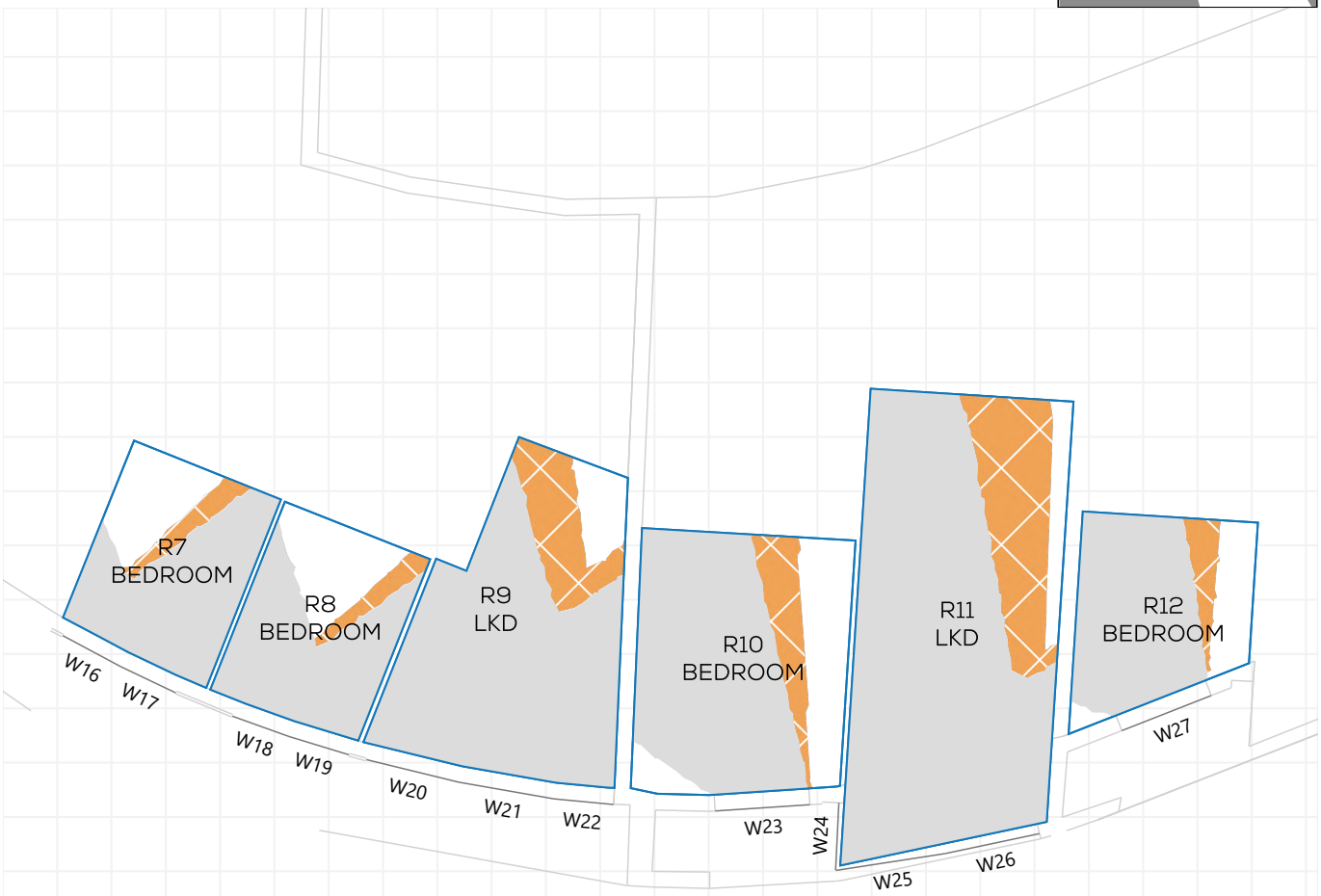
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F06	R1	RESIDENTIAL	BEDROOM	15.6	42.3	42.3	0.0	0
F06	R2	RESIDENTIAL	LKD	17.9	18.6	18.6	0.0	0
F06	R3	RESIDENTIAL	LKD	23.3	36.9	36.9	0.0	0
F06	R4	RESIDENTIAL	BEDROOM	10.5	51	43.1	0.8	15.5
F06	R5	RESIDENTIAL	LKD	16.5	96.3	33.1	10.5	65.6
F06	R6	RESIDENTIAL	LKD	20.9	90.9	30.4	12.7	66.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD17

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



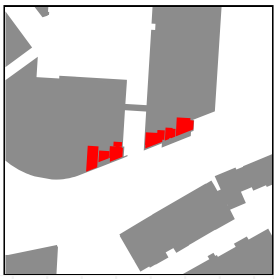
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F06	R7	RESIDENTIAL	BEDROOM	10.7	74.7	66.9	0.8	10.4
F06	R8	RESIDENTIAL	BEDROOM	10.6	71.7	64.7	0.7	9.7
F06	R9	RESIDENTIAL	LKD	20.6	93.1	78.5	3.0	15.7
F06	R10	RESIDENTIAL	BEDROOM	18.5	76.5	65.1	2.1	14.9
F06	R11	RESIDENTIAL	LKD	31.0	95.5	77.1	5.7	19.3
F06	R12	RESIDENTIAL	BEDROOM	10.8	79.6	70.6	1.0	11.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD18

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





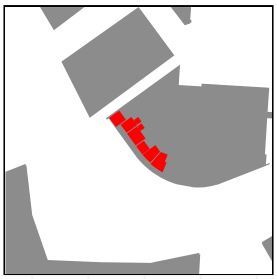
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F06	R13	RESIDENTIAL	LKD	28.2	100	88.6	3.2	11.4
F06	R14	RESIDENTIAL	BEDROOM	10.6	86.4	77.3	1.0	10.5
F06	R15	RESIDENTIAL	LKD	22.9	96	94.5	0.3	1.5
F06	R16	RESIDENTIAL	LKD	27.1	99.6	99.2	0.1	0.3
F06	R17	RESIDENTIAL	BEDROOM	11.7	84.1	77	0.8	8.4
F06	R18	RESIDENTIAL	LKD	27.8	97.8	97.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD19

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





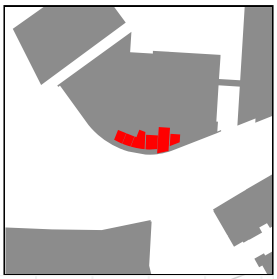
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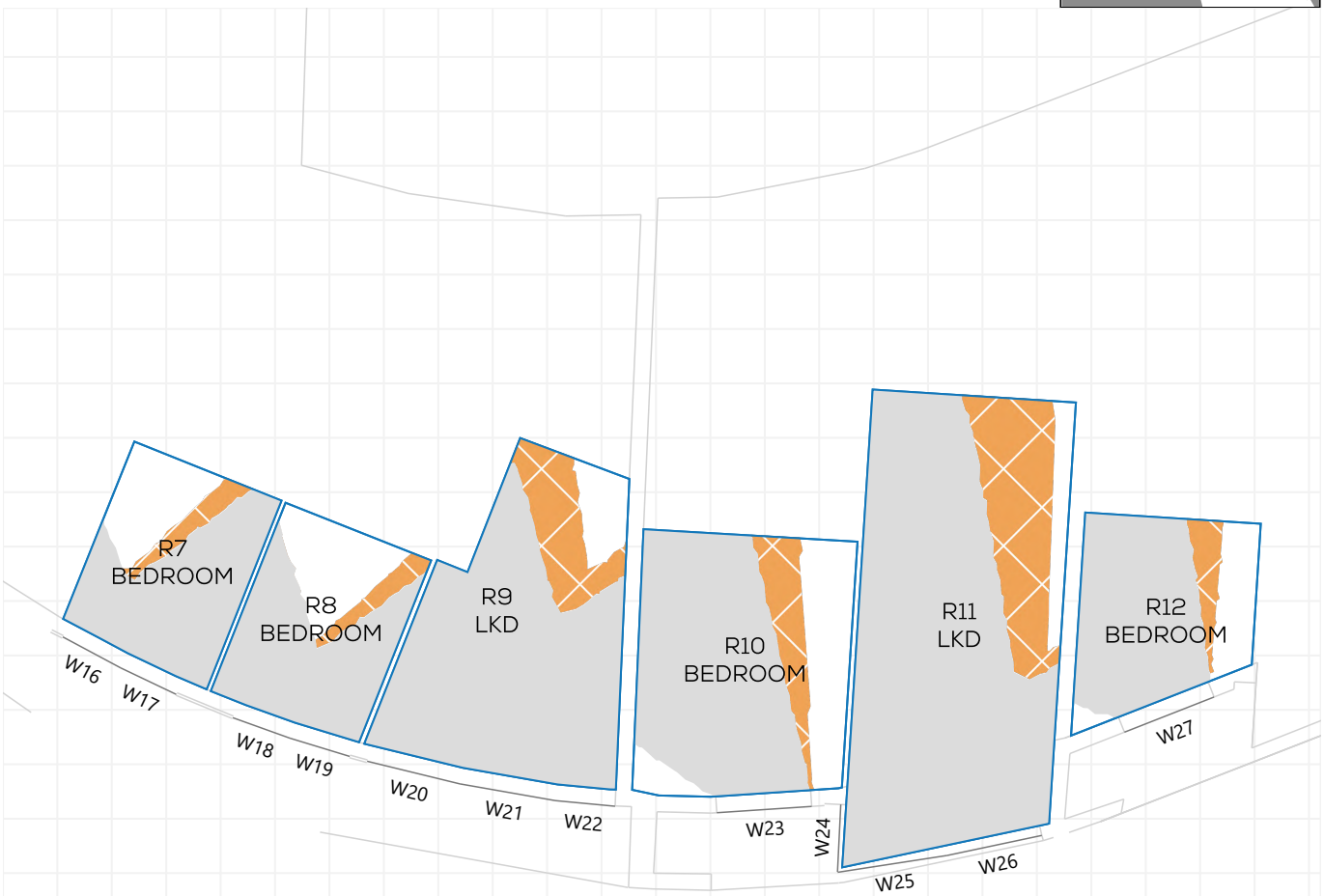
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F07	R1	RESIDENTIAL	BEDROOM	15.6	42.8	42.8	0.0	0
F07	R2	RESIDENTIAL	LKD	17.9	18.8	18.8	0.0	0
F07	R3	RESIDENTIAL	LKD	23.3	37	37	0.0	0
F07	R4	RESIDENTIAL	BEDROOM	10.5	51	43.1	0.8	15.5
F07	R5	RESIDENTIAL	LKD	16.5	96.3	33.1	10.5	65.6
F07	R6	RESIDENTIAL	LKD	20.9	90.9	30.4	12.7	66.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD20

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





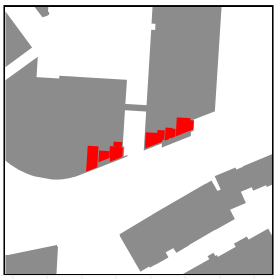
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F07	R7	RESIDENTIAL	BEDROOM	10.7	74.7	66.9	0.8	10.4
F07	R8	RESIDENTIAL	BEDROOM	10.6	71.7	64.7	0.7	9.7
F07	R9	RESIDENTIAL	LKD	20.6	93.1	78.7	3.0	15.5
F07	R10	RESIDENTIAL	BEDROOM	18.5	76.6	65.2	2.1	14.9
F07	R11	RESIDENTIAL	LKD	31.0	95.5	77.1	5.7	19.3
F07	R12	RESIDENTIAL	BEDROOM	10.8	79.6	70.7	1.0	11.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD21

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





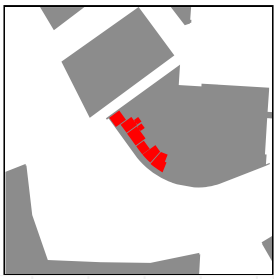
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F07	R13	RESIDENTIAL	LKD	28.2	100	88.6	3.2	11.4
F07	R14	RESIDENTIAL	BEDROOM	10.6	86.4	77.3	1.0	10.5
F07	R15	RESIDENTIAL	LKD	22.9	96	94.6	0.3	1.5
F07	R16	RESIDENTIAL	LKD	27.1	99.6	99.2	0.1	0.3
F07	R17	RESIDENTIAL	BEDROOM	11.7	84.1	77	0.8	8.4
F07	R18	RESIDENTIAL	LKD	27.8	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD22

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





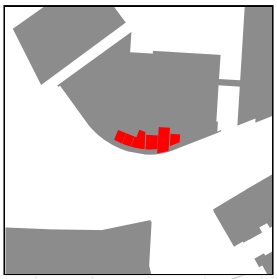
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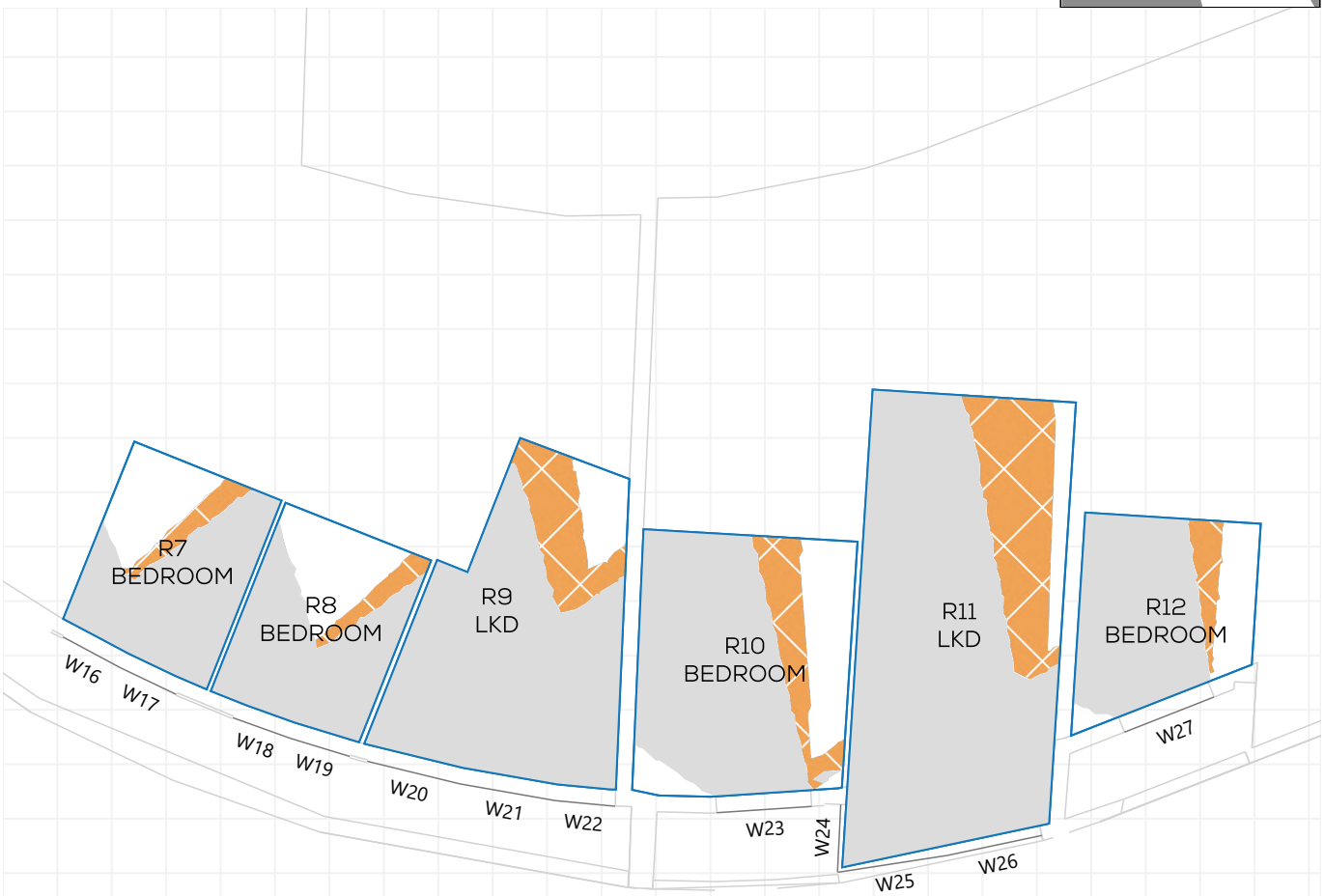
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HILL QUAYS								
F08	R1	RESIDENTIAL	BEDROOM	15.6	43.1	43.1	0.0	0
F08	R2	RESIDENTIAL	LKD	17.9	19	19	0.0	0
F08	R3	RESIDENTIAL	LKD	23.3	37.1	37.1	0.0	0
F08	R4	RESIDENTIAL	BEDROOM	10.5	51	43.1	0.8	15.5
F08	R5	RESIDENTIAL	LKD	16.5	96.3	33.1	10.5	65.6
F08	R6	RESIDENTIAL	LKD	20.9	90.9	30.4	12.7	66.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD23

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





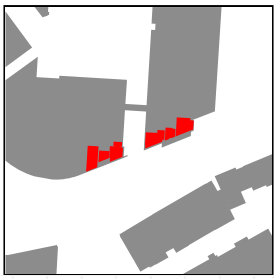
F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F08	R7	RESIDENTIAL	BEDROOM	10.7	74.7	66.9	0.8	10.4
F08	R8	RESIDENTIAL	BEDROOM	10.6	71.6	64.7	0.7	9.7
F08	R9	RESIDENTIAL	LKD	20.6	93	78.7	3.0	15.4
F08	R10	RESIDENTIAL	BEDROOM	18.5	78.3	65.5	2.4	16.3
F08	R11	RESIDENTIAL	LKD	31.0	95.5	77.1	5.7	19.3
F08	R12	RESIDENTIAL	BEDROOM	10.8	79.6	70.8	1.0	11.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD24

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





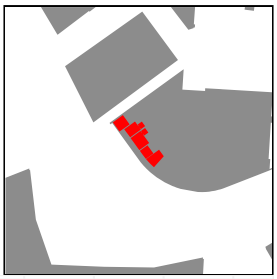
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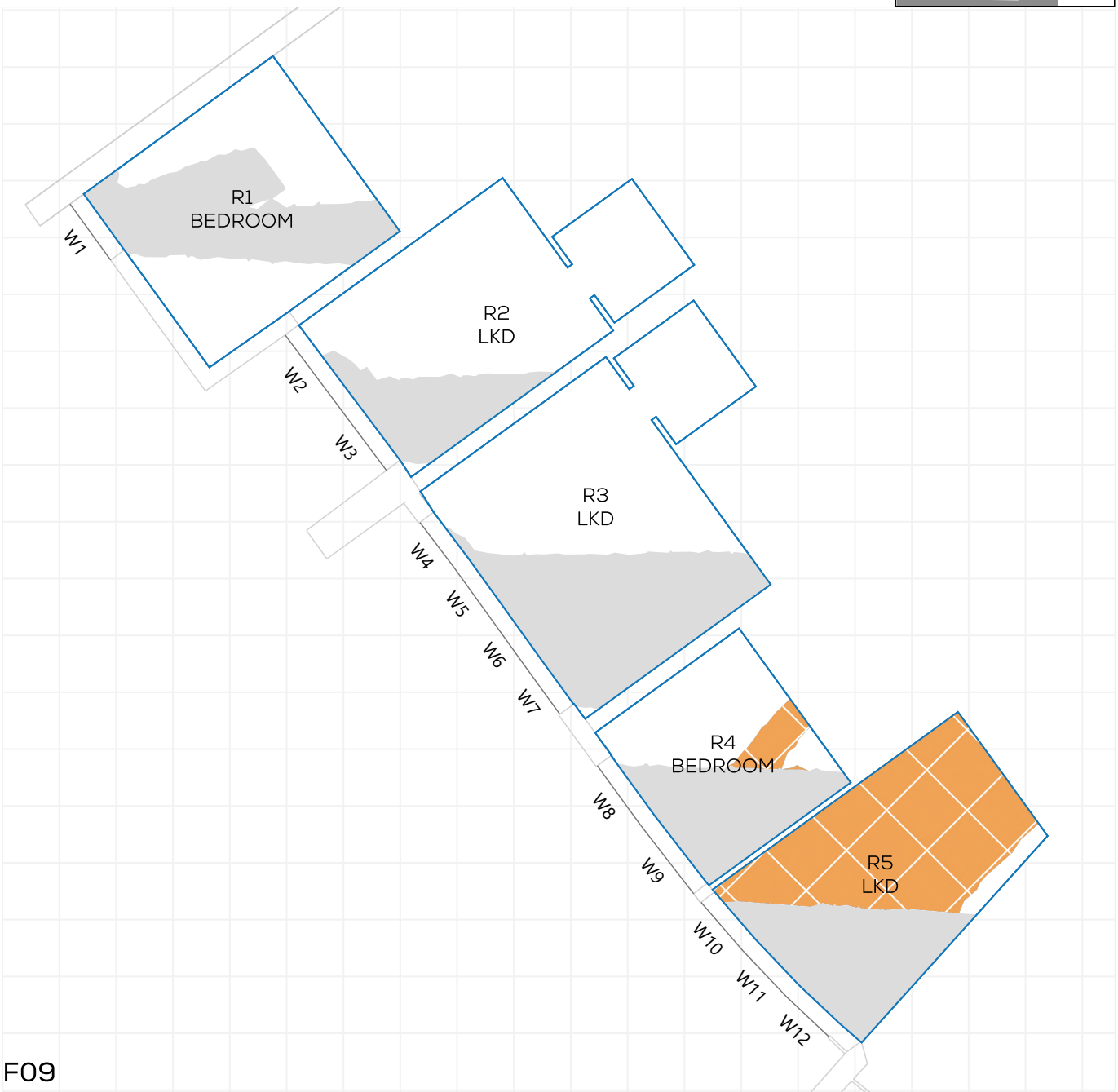
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F08	R13	RESIDENTIAL	LKD	28.2	100	88.6	3.2	11.4
F08	R14	RESIDENTIAL	BEDROOM	10.6	86.4	77.4	1.0	10.5
F08	R15	RESIDENTIAL	LKD	22.9	96	94.6	0.3	1.5
F08	R16	RESIDENTIAL	LKD	27.1	99.6	99.2	0.1	0.3
F08	R17	RESIDENTIAL	BEDROOM	11.7	84.1	77	0.8	8.4
F08	R18	RESIDENTIAL	LKD	27.8	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD25

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





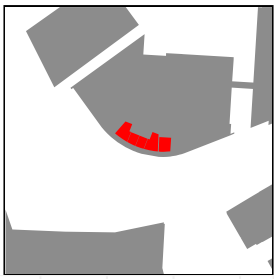
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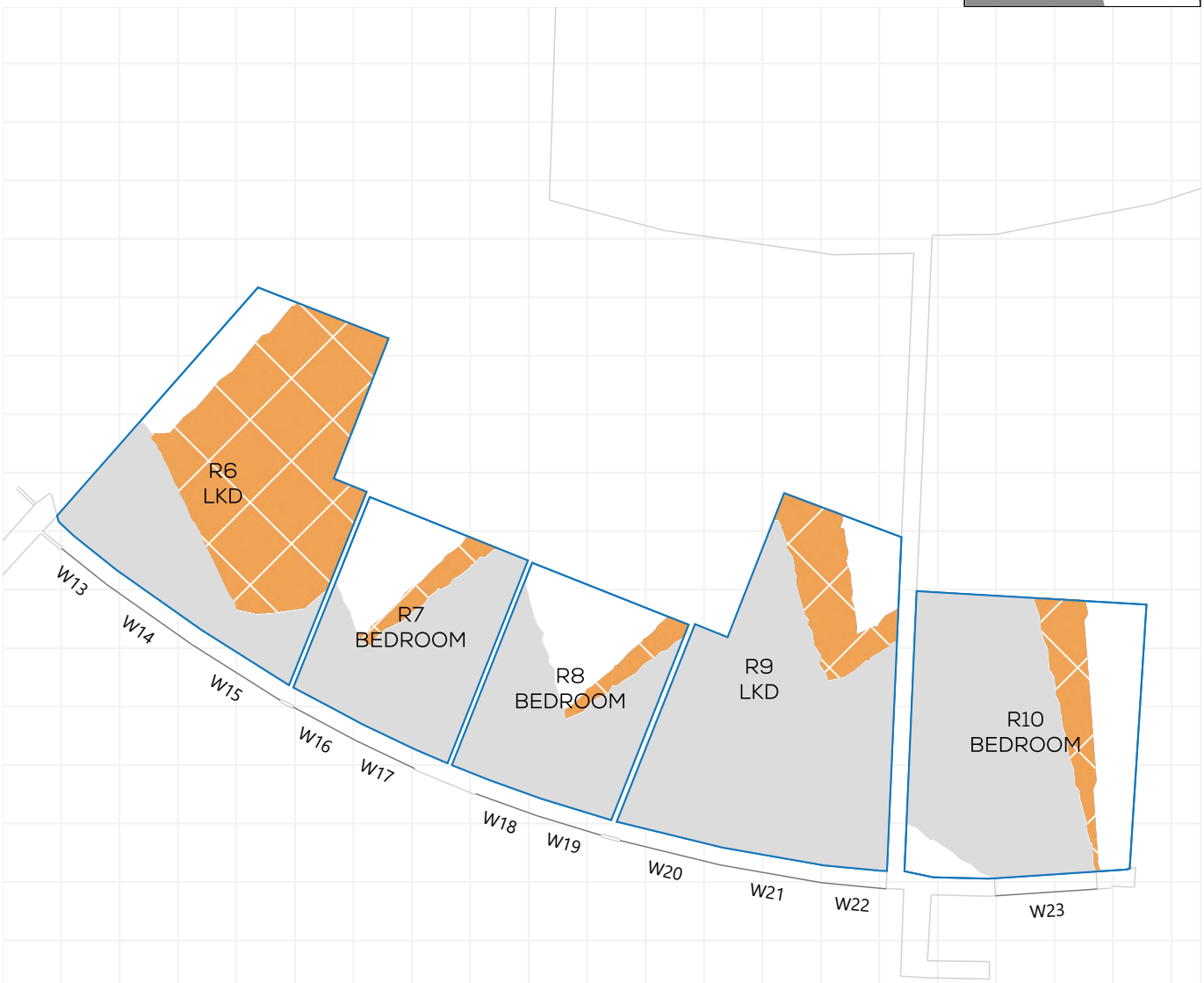
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F09	R1	RESIDENTIAL	BEDROOM	15.6	43.7	43.7	0.0	0
F09	R2	RESIDENTIAL	LKD	17.9	19.5	19.5	0.0	0
F09	R3	RESIDENTIAL	LKD	23.3	37.3	37.3	0.0	0
F09	R4	RESIDENTIAL	BEDROOM	10.5	51.1	43.2	0.8	15.5
F09	R5	RESIDENTIAL	LKD	16.5	96.4	33.1	10.5	65.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD26

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





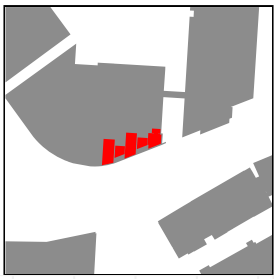
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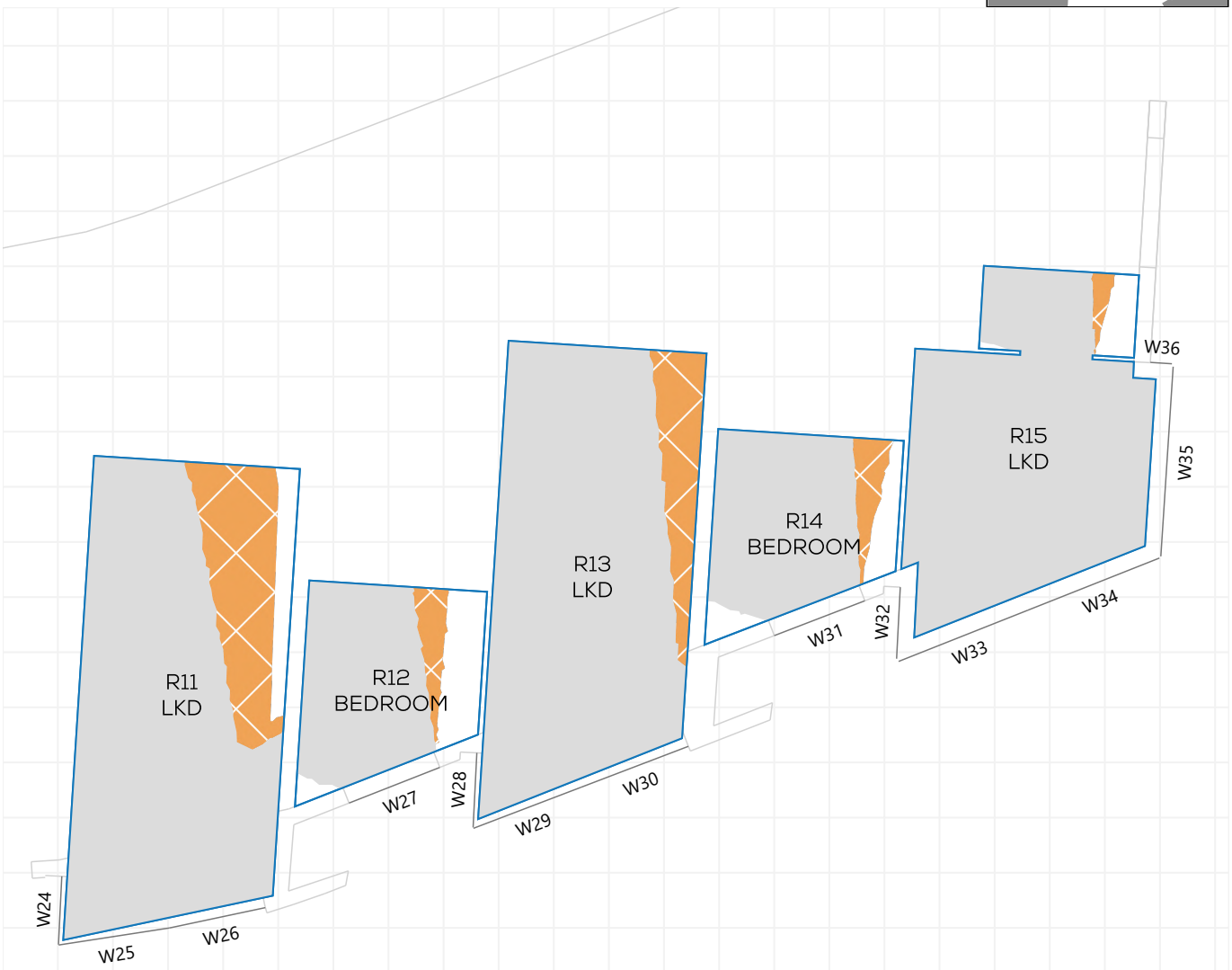
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F09	R6	RESIDENTIAL	LKD	20.9	91	30.7	12.6	66.3
F09	R7	RESIDENTIAL	BEDROOM	10.7	74.7	67	0.8	10.4
F09	R8	RESIDENTIAL	BEDROOM	10.6	71.7	64.7	0.7	9.7
F09	R9	RESIDENTIAL	LKD	20.6	93.1	78.7	3.0	15.5
F09	R10	RESIDENTIAL	BEDROOM	18.5	76.6	65.4	2.1	14.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: HILL QUAYS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD27

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F09

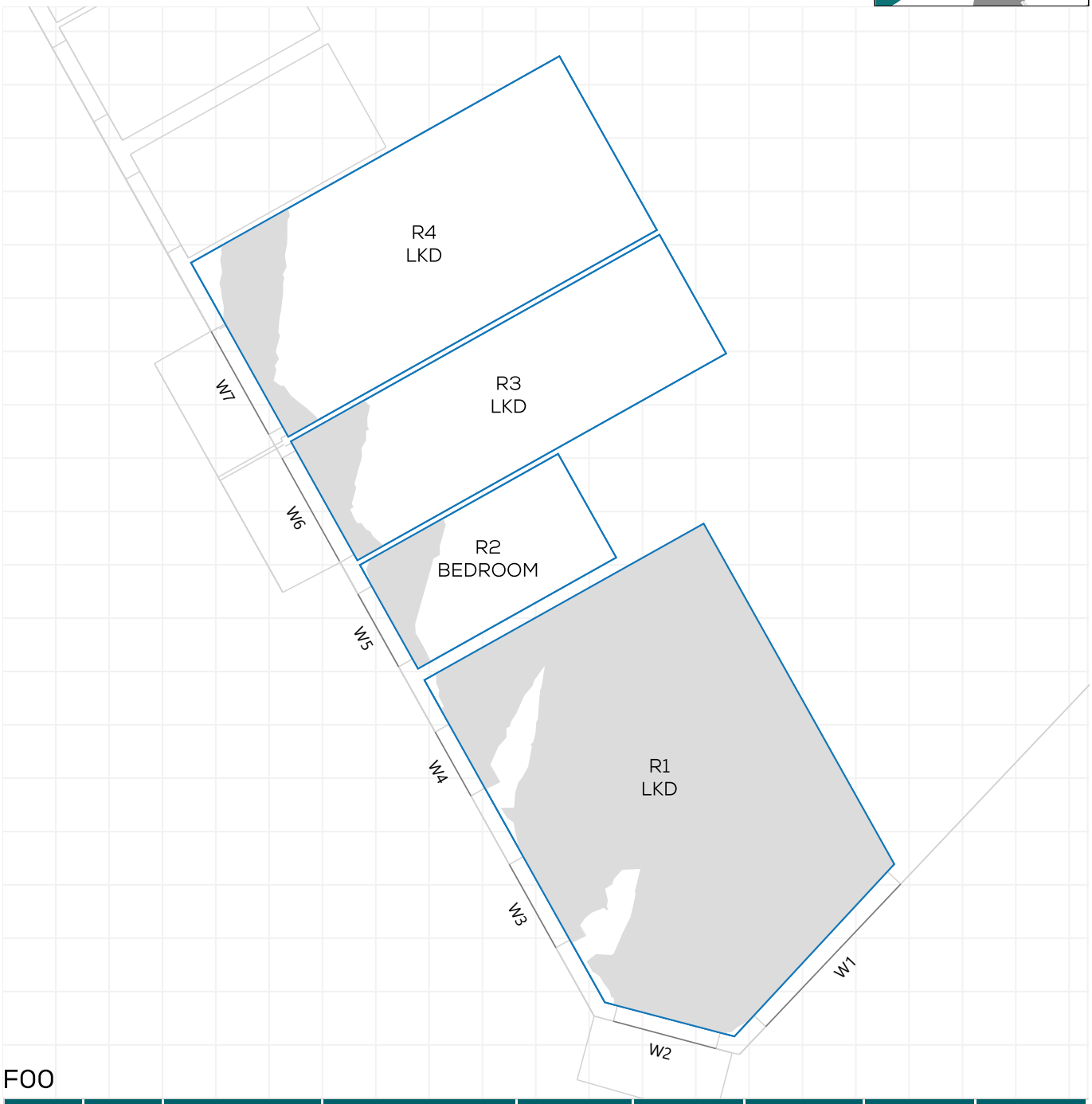
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
HILL QUAYS								
F09	R11	RESIDENTIAL	LKD	31.0	95.5	77.1	5.7	19.3
F09	R12	RESIDENTIAL	BEDROOM	10.8	79.6	70.7	1.0	11.1
F09	R13	RESIDENTIAL	LKD	28.2	100	88.6	3.2	11.4
F09	R14	RESIDENTIAL	BEDROOM	10.6	86.5	77.4	1.0	10.5
F09	R15	RESIDENTIAL	LKD	22.9	96.1	94.6	0.3	1.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD28

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





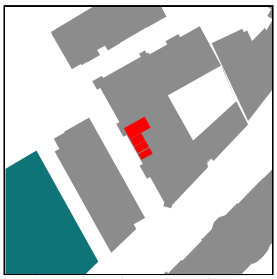
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F00	R1	RESIDENTIAL	LKD	47.6	94.7	94.7	0.0	0
F00	R2	RESIDENTIAL	BEDROOM	9.5	19.4	19.4	0.0	0.1
F00	R3	RESIDENTIAL	LKD	20.2	10.5	10.5	0.0	0
F00	R4	RESIDENTIAL	LKD	29.6	11.4	11.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD29

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





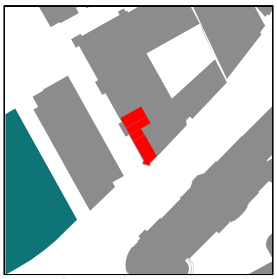
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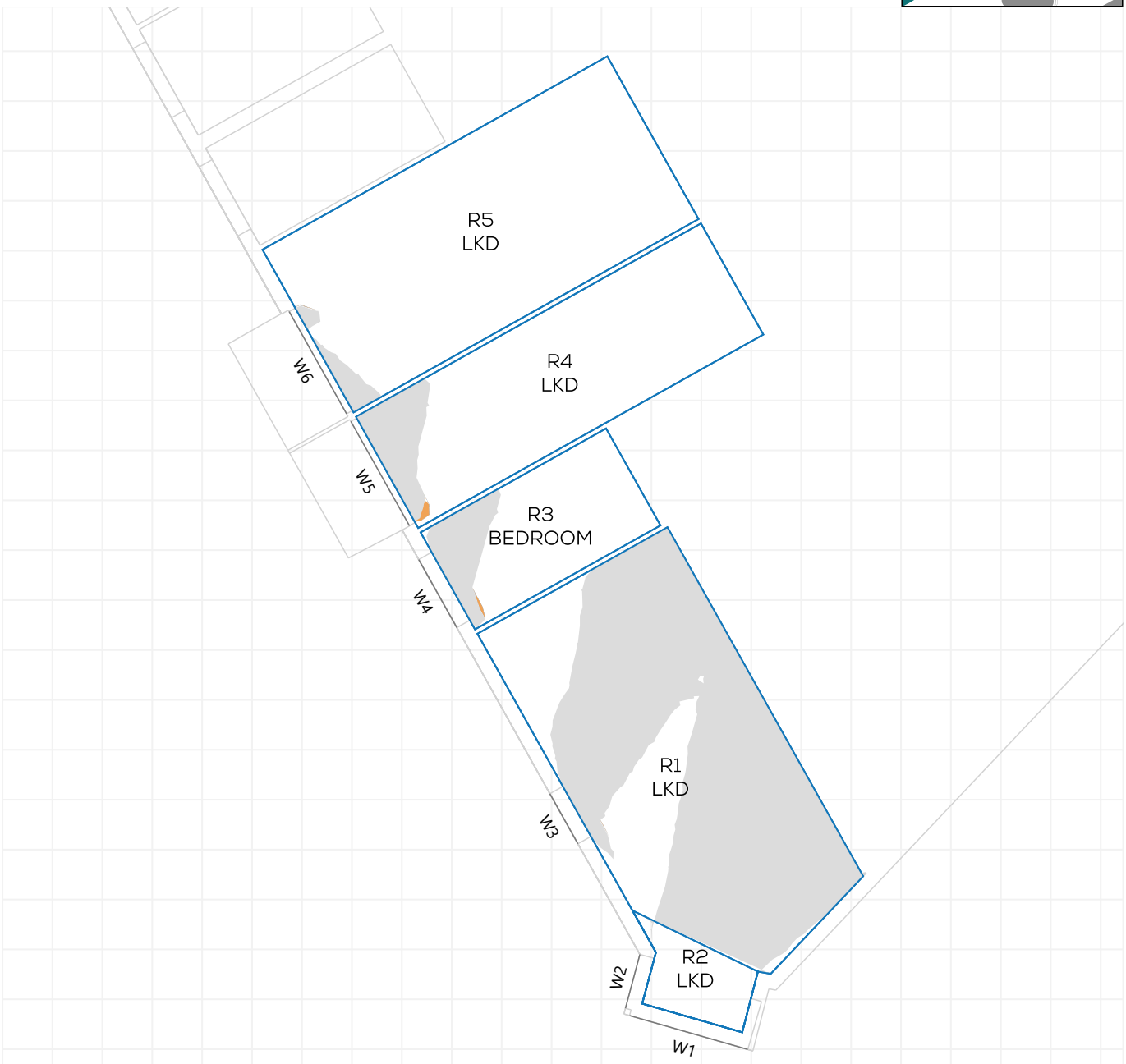
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F00	R5	RESIDENTIAL	BEDROOM	9.5	8.9	8.9	0.0	0.1
F00	R6	RESIDENTIAL	BEDROOM	10.3	8.1	8.1	0.0	0.1
F00	R7	RESIDENTIAL	BEDROOM	11.6	8.2	8.2	0.0	0.1
F00	R8	RESIDENTIAL	LKD	32.8	6.5	6.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD30

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F01	R1	RESIDENTIAL	LKD	38.5	78	78	0.0	0
F01	R2	RESIDENTIAL	LKD	3.3	96.7	96.7	0.0	0
F01	R3	RESIDENTIAL	BEDROOM	9.5	19.6	19.3	0.0	1.1
F01	R4	RESIDENTIAL	LKD	20.2	10.5	10.2	0.1	2.6
F01	R5	RESIDENTIAL	LKD	29.6	2.5	2.5	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD31

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F01

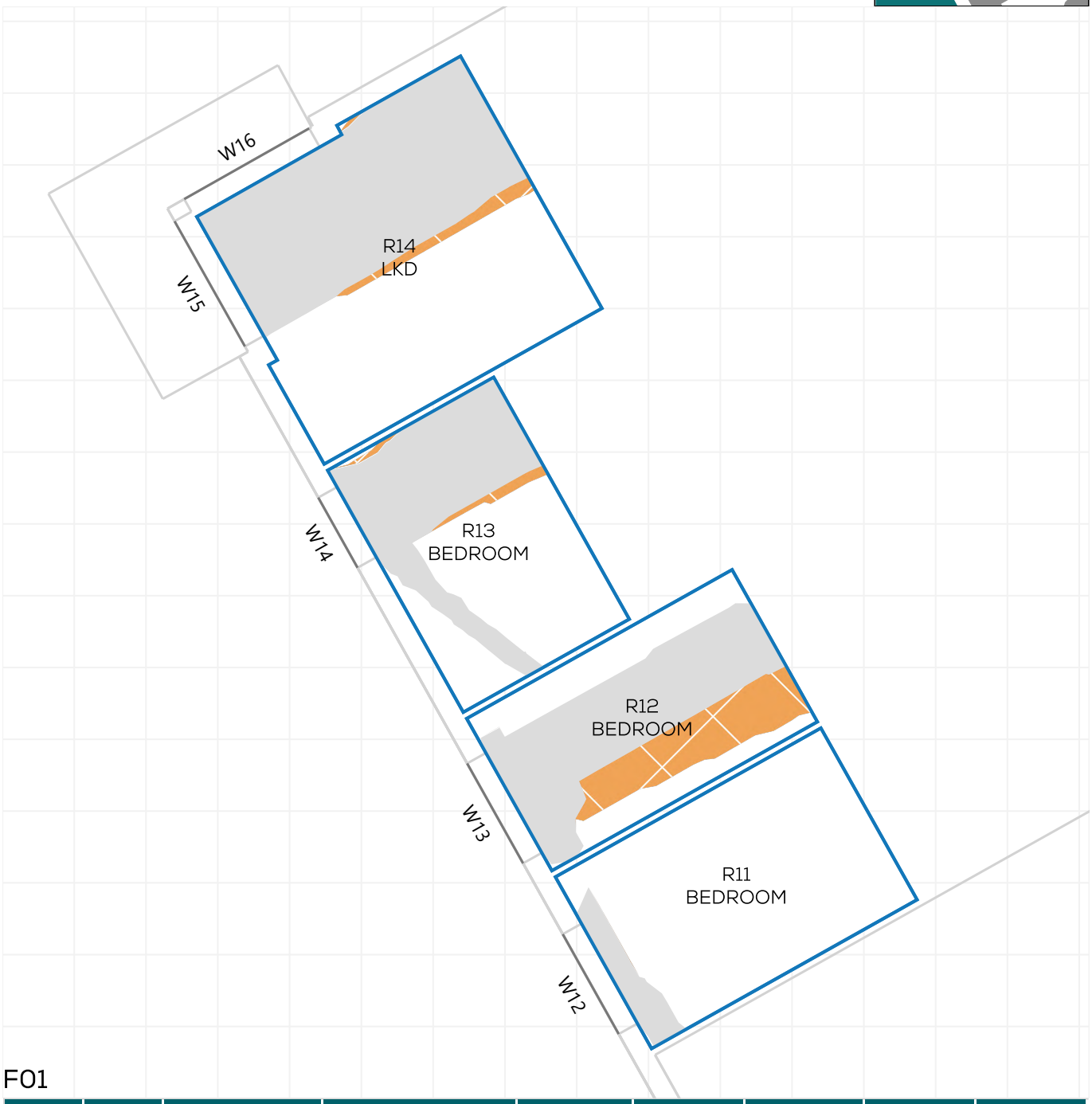
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F01	R6	RESIDENTIAL	BEDROOM	9.5	9.4	9.2	0.0	1.9
F01	R7	RESIDENTIAL	BEDROOM	10.3	8.6	8.4	0.0	2
F01	R8	RESIDENTIAL	BEDROOM	11.6	8.8	8.7	0.0	1
F01	R9	RESIDENTIAL	LKD	32.8	3.3	3.1	0.1	6
F01	R10	RESIDENTIAL	LKD	32.8	2.8	2.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD32

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





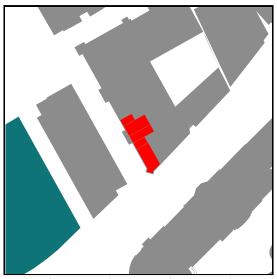
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F01	R11	RESIDENTIAL	BEDROOM	11.6	7.7	7.6	0.0	0.3
F01	R12	RESIDENTIAL	BEDROOM	10.3	70.6	49.8	2.1	29.5
F01	R13	RESIDENTIAL	BEDROOM	10.2	46.1	43.7	0.2	5.2
F01	R14	RESIDENTIAL	LKD	17.2	50.9	48.3	0.5	5.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD33

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F02	R1	RESIDENTIAL	LKD	38.5	80.3	80.2	0.0	0.1
F02	R2	RESIDENTIAL	BEDROOM	9.5	21	20.5	0.0	2.5
F02	R3	RESIDENTIAL	LKD	20.2	11.3	10.8	0.1	4.5
F02	R4	RESIDENTIAL	LKD	29.6	2.6	2.6	0.0	0.3
F02	R5	RESIDENTIAL	BEDROOM	9.5	11.5	11.1	0.0	3.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD34

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





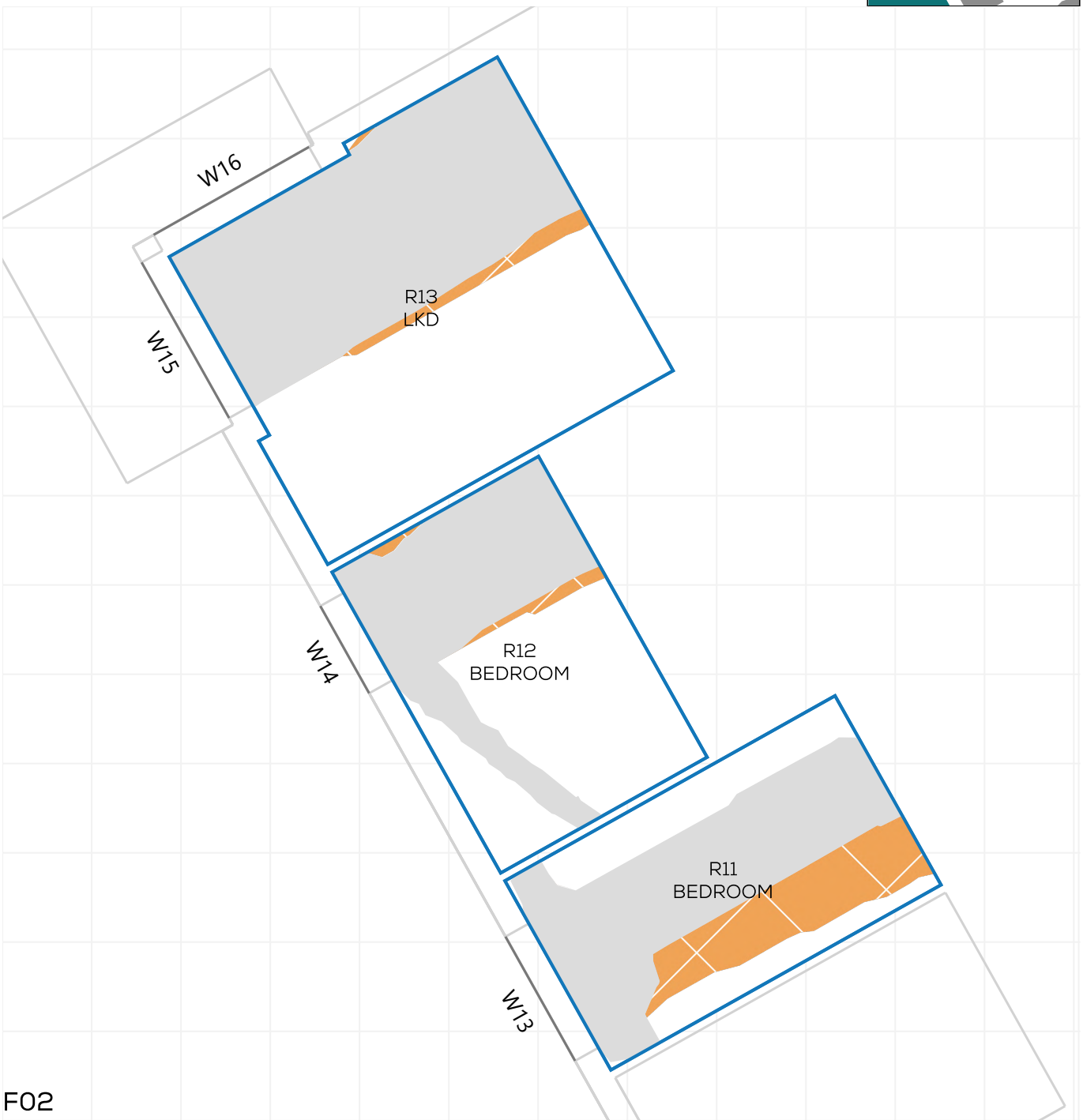
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F02	R6	RESIDENTIAL	BEDROOM	10.3	10.9	10.6	0.0	3.3
F02	R7	RESIDENTIAL	BEDROOM	11.6	11.2	10.9	0.0	2.8
F02	R8	RESIDENTIAL	LKD	32.8	4.4	4.1	0.1	8.6
F02	R9	RESIDENTIAL	LKD	32.8	2.9	2.9	0.0	0
F02	R10	RESIDENTIAL	BEDROOM	11.6	11.3	11.3	0.0	0.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD35

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



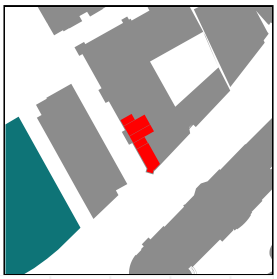
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F02	R11	RESIDENTIAL	BEDROOM	10.3	72.8	52.3	2.1	28.2
F02	R12	RESIDENTIAL	BEDROOM	10.2	47.2	44.7	0.3	5.2
F02	R13	RESIDENTIAL	LKD	17.2	51	48.3	0.4	5.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD36

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F03	R1	RESIDENTIAL	LKD	38.5	85.5	85.2	0.1	0.3
F03	R2	RESIDENTIAL	BEDROOM	9.5	22.7	21.4	0.1	5.8
F03	R3	RESIDENTIAL	LKD	20.2	12.4	11.6	0.2	6.5
F03	R4	RESIDENTIAL	LKD	29.6	2.6	2.6	0.0	0.3
F03	R5	RESIDENTIAL	BEDROOM	9.5	14.5	14	0.0	3.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD37

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F03

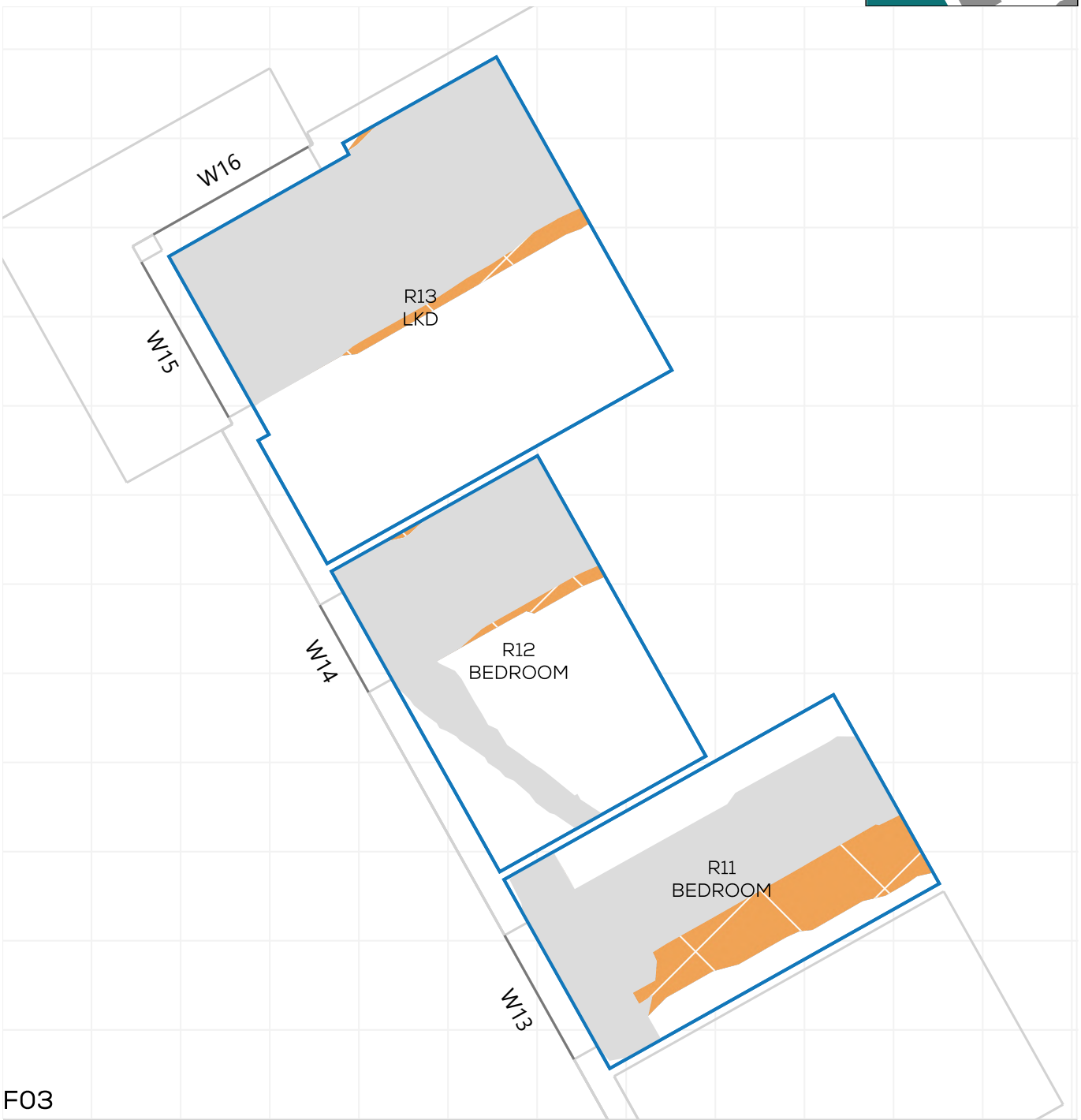
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F03	R6	RESIDENTIAL	BEDROOM	10.3	13.6	13.4	0.0	1.4
F03	R7	RESIDENTIAL	BEDROOM	11.6	14	13.8	0.0	1
F03	R8	RESIDENTIAL	LKD	32.8	5.9	5.2	0.2	11.1
F03	R9	RESIDENTIAL	LKD	32.8	3	3	0.0	0
F03	R10	RESIDENTIAL	BEDROOM	11.6	14.5	14.5	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD38

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





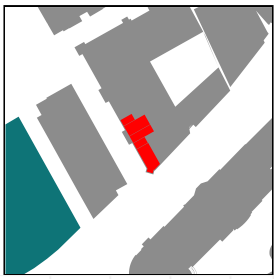
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F03	R11	RESIDENTIAL	BEDROOM	10.3	73.6	52.9	2.1	28.2
F03	R12	RESIDENTIAL	BEDROOM	10.2	48	45.9	0.2	4.3
F03	R13	RESIDENTIAL	LKD	17.2	50.9	48.3	0.4	5.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD39

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F04	R1	RESIDENTIAL	LKD	38.5	94.1	94	0.0	0.1
F04	R2	RESIDENTIAL	BEDROOM	9.5	27.3	23.9	0.3	12.5
F04	R3	RESIDENTIAL	LKD	20.2	14.6	13.3	0.3	9.2
F04	R4	RESIDENTIAL	LKD	29.6	3.5	2.9	0.2	15.8
F04	R5	RESIDENTIAL	BEDROOM	9.5	21	20.5	0.1	2.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD40

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





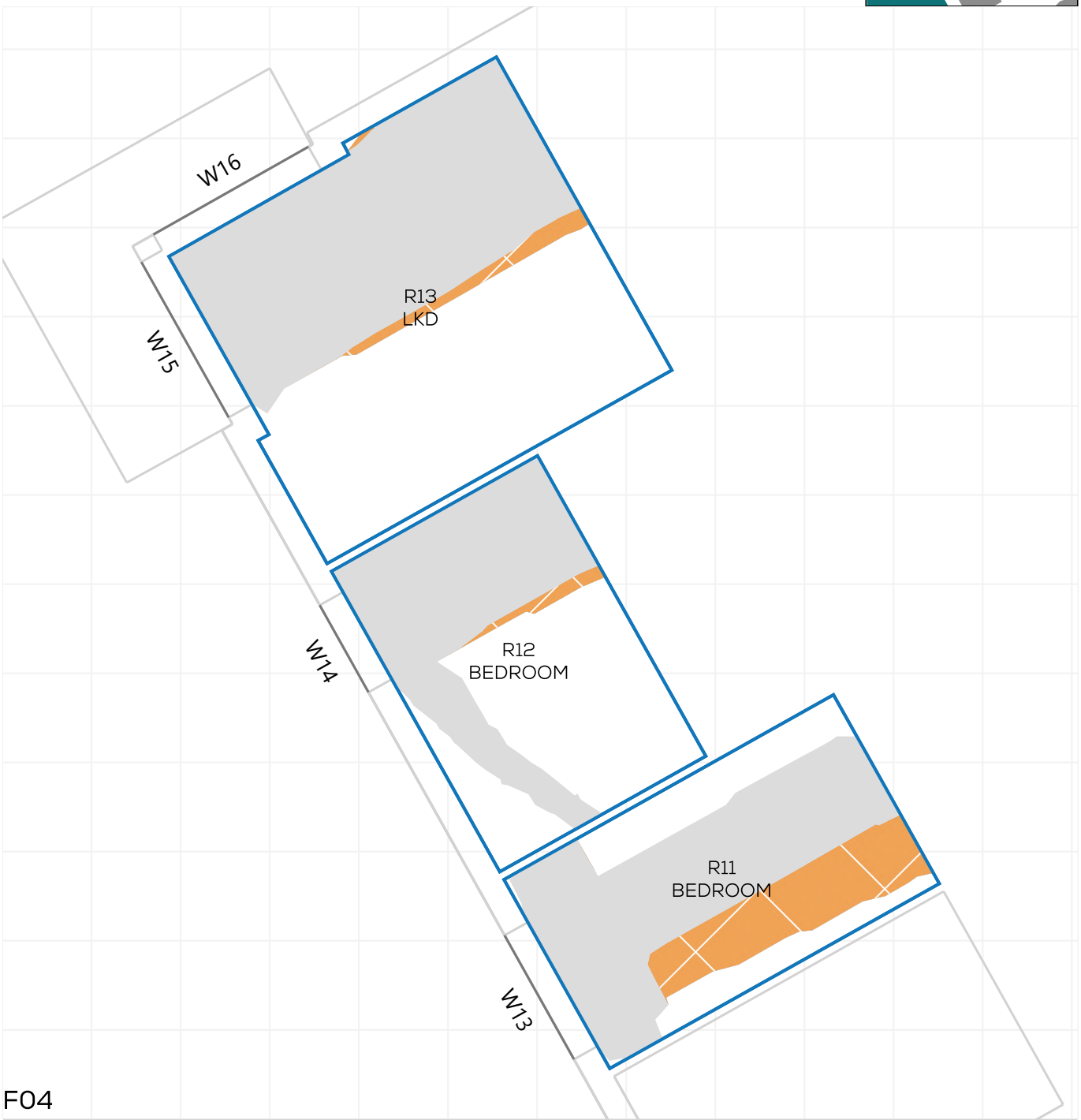
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F04	R6	RESIDENTIAL	BEDROOM	10.3	19.6	19.3	0.0	1.3
F04	R7	RESIDENTIAL	BEDROOM	11.6	19.7	19.5	0.0	0.9
F04	R8	RESIDENTIAL	LKD	32.8	8.1	6.9	0.4	15.8
F04	R9	RESIDENTIAL	LKD	32.8	3.3	3.3	0.0	0
F04	R10	RESIDENTIAL	BEDROOM	11.6	20.8	20.7	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD41

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



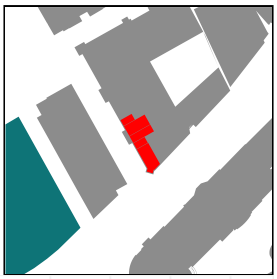
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F04	R11	RESIDENTIAL	BEDROOM	10.3	75.3	54.9	2.1	27
F04	R12	RESIDENTIAL	BEDROOM	10.2	48.9	47.1	0.2	3.7
F04	R13	RESIDENTIAL	LKD	17.2	51.1	48.5	0.4	5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD42

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F05

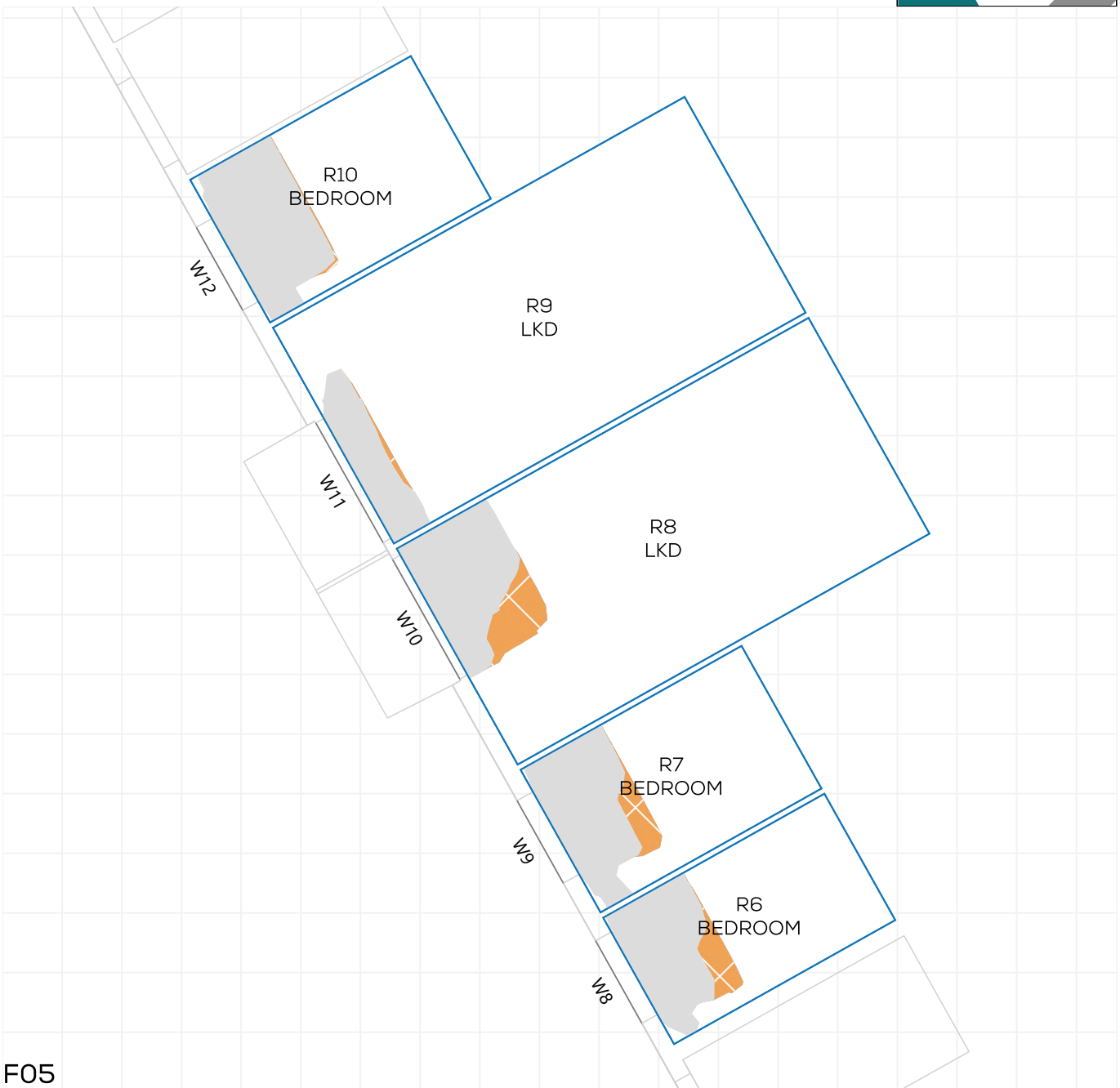
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F05	R1	RESIDENTIAL	LKD	38.5	95.4	95.2	0.1	0.1
F05	R2	RESIDENTIAL	BEDROOM	9.5	38.1	30.1	0.8	21
F05	R3	RESIDENTIAL	LKD	20.2	20.8	17.6	0.6	15.3
F05	R4	RESIDENTIAL	LKD	29.6	8.2	6.3	0.6	22.8
F05	R5	RESIDENTIAL	BEDROOM	9.5	34.6	29.2	0.5	15.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD43

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





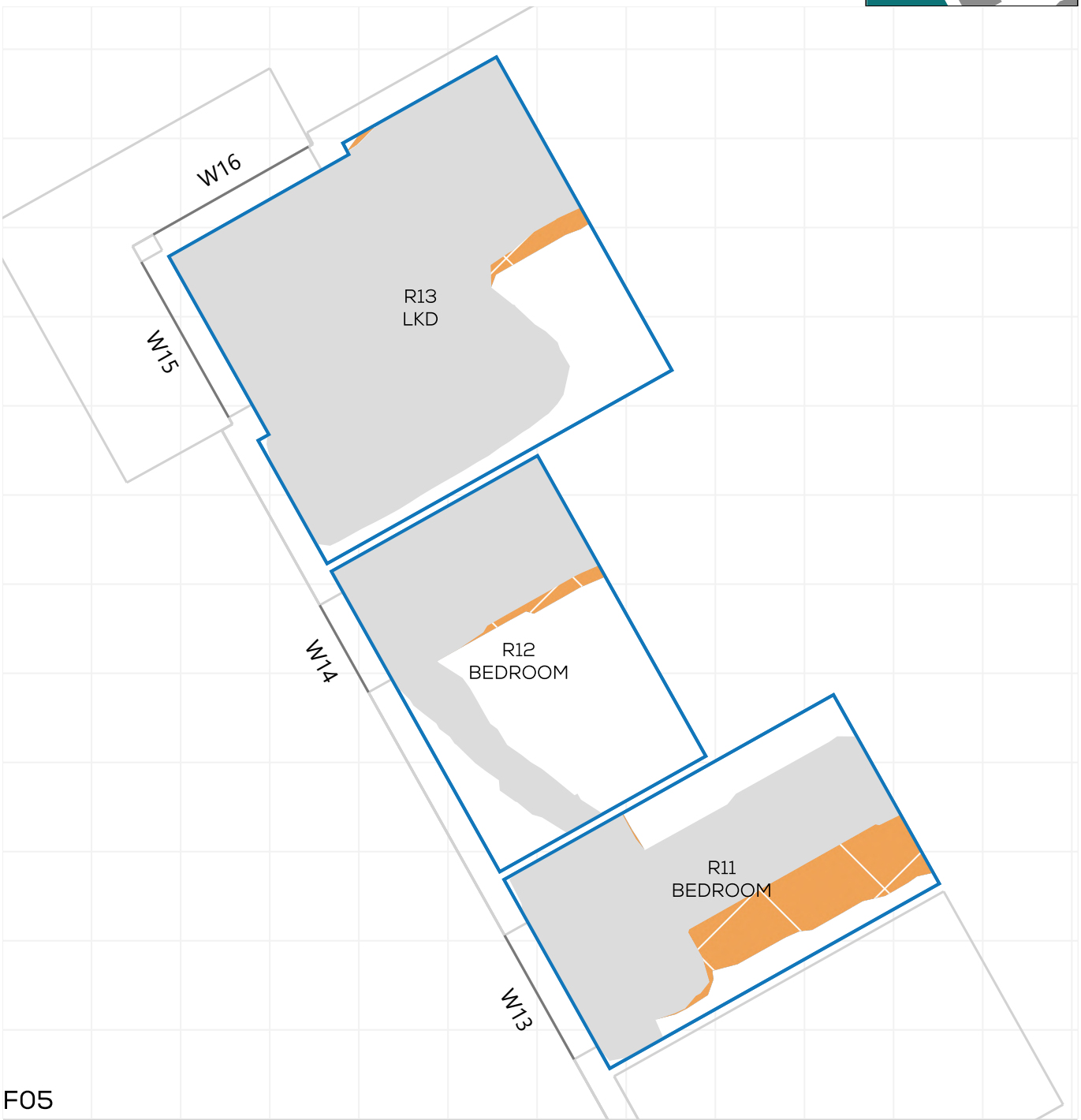
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F05	R6	RESIDENTIAL	BEDROOM	10.3	32.3	27.3	0.5	15.3
F05	R7	RESIDENTIAL	BEDROOM	11.6	31.4	27.2	0.5	13.2
F05	R8	RESIDENTIAL	LKD	32.8	12.7	9.9	0.9	21.7
F05	R9	RESIDENTIAL	LKD	32.8	6.1	5.9	0.1	4.6
F05	R10	RESIDENTIAL	BEDROOM	11.6	33.4	32.7	0.1	1.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD44

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



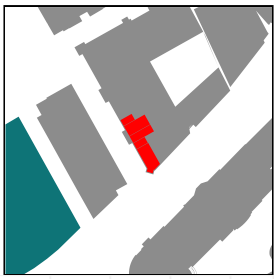
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F05	R11	RESIDENTIAL	BEDROOM	10.3	79.2	61.2	1.9	22.7
F05	R12	RESIDENTIAL	BEDROOM	10.2	50.1	48.3	0.2	3.6
F05	R13	RESIDENTIAL	LKD	17.2	84.1	82.6	0.2	1.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD45

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F06	R1	RESIDENTIAL	LKD	38.5	99.6	99.4	0.1	0.2
F06	R2	RESIDENTIAL	BEDROOM	9.5	77.3	50.3	2.6	35
F06	R3	RESIDENTIAL	LKD	20.2	40.9	29.3	2.4	28.5
F06	R4	RESIDENTIAL	LKD	29.6	36.6	24.7	3.5	32.6
F06	R5	RESIDENTIAL	BEDROOM	9.5	73.6	39.9	3.2	45.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD46

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F06	R6	RESIDENTIAL	BEDROOM	10.3	69.9	36	3.5	48.6
F06	R7	RESIDENTIAL	BEDROOM	11.6	66.3	39.6	3.1	40.2
F06	R8	RESIDENTIAL	LKD	32.8	26.4	21.2	1.7	19.5
F06	R9	RESIDENTIAL	LKD	32.8	34.9	31.6	1.1	9.6
F06	R10	RESIDENTIAL	BEDROOM	11.6	69.4	62.8	0.8	9.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD47

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



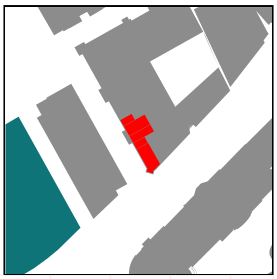
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F06	R11	RESIDENTIAL	BEDROOM	10.3	89.4	76	1.4	15.1
F06	R12	RESIDENTIAL	BEDROOM	10.2	50.7	48.9	0.2	3.4
F06	R13	RESIDENTIAL	LKD	17.2	89.7	88.2	0.2	1.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD48

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F07

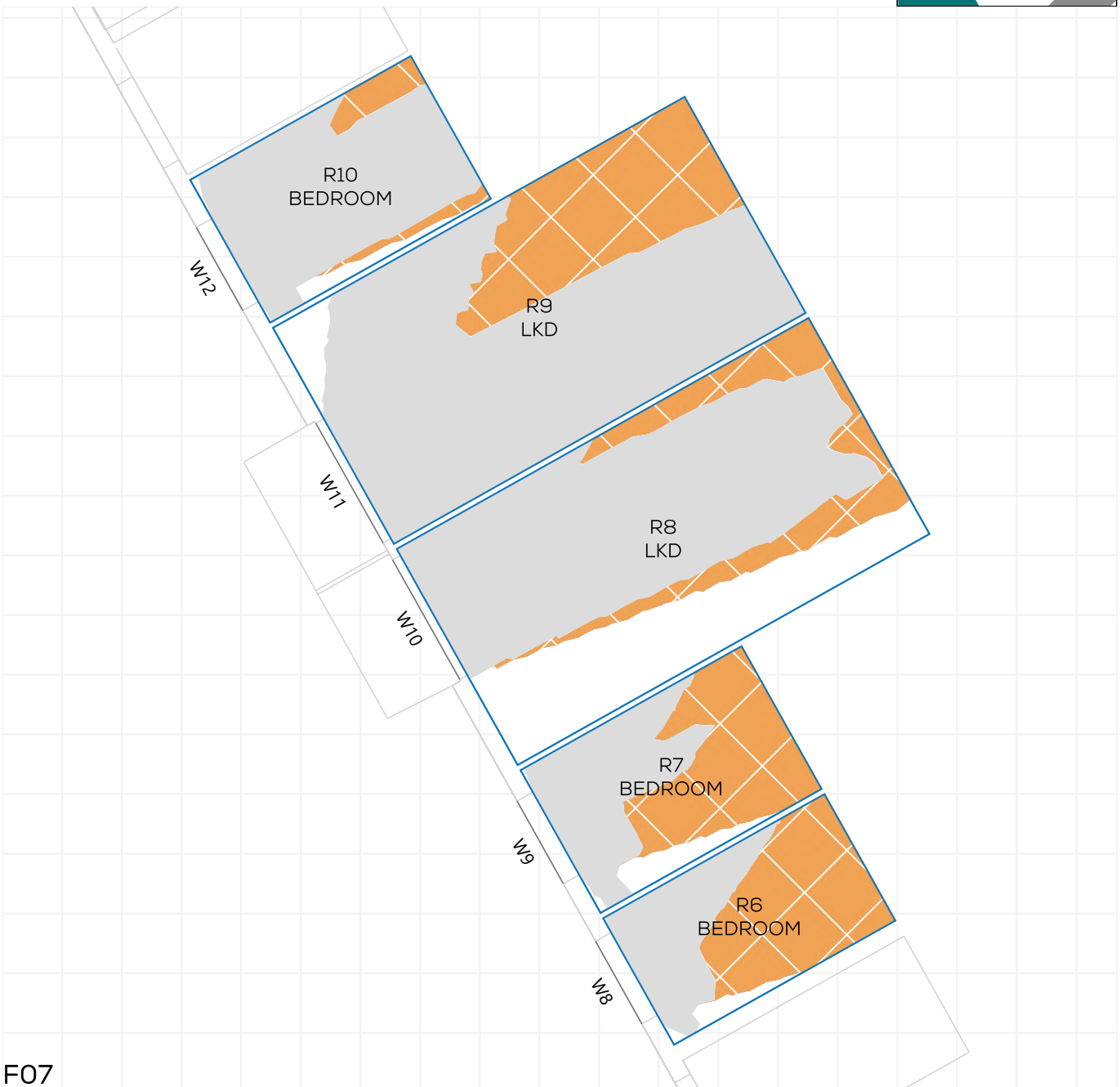
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F07	R1	RESIDENTIAL	LKD	38.5	100	99.7	0.1	0.2
F07	R2	RESIDENTIAL	BEDROOM	9.5	99.7	59.6	3.8	40.2
F07	R3	RESIDENTIAL	LKD	20.2	99.9	39.1	12.3	60.8
F07	R4	RESIDENTIAL	LKD	29.6	98.1	40.8	17.0	58.4
F07	R5	RESIDENTIAL	BEDROOM	9.5	98.7	41.9	5.4	57.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD49

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F07

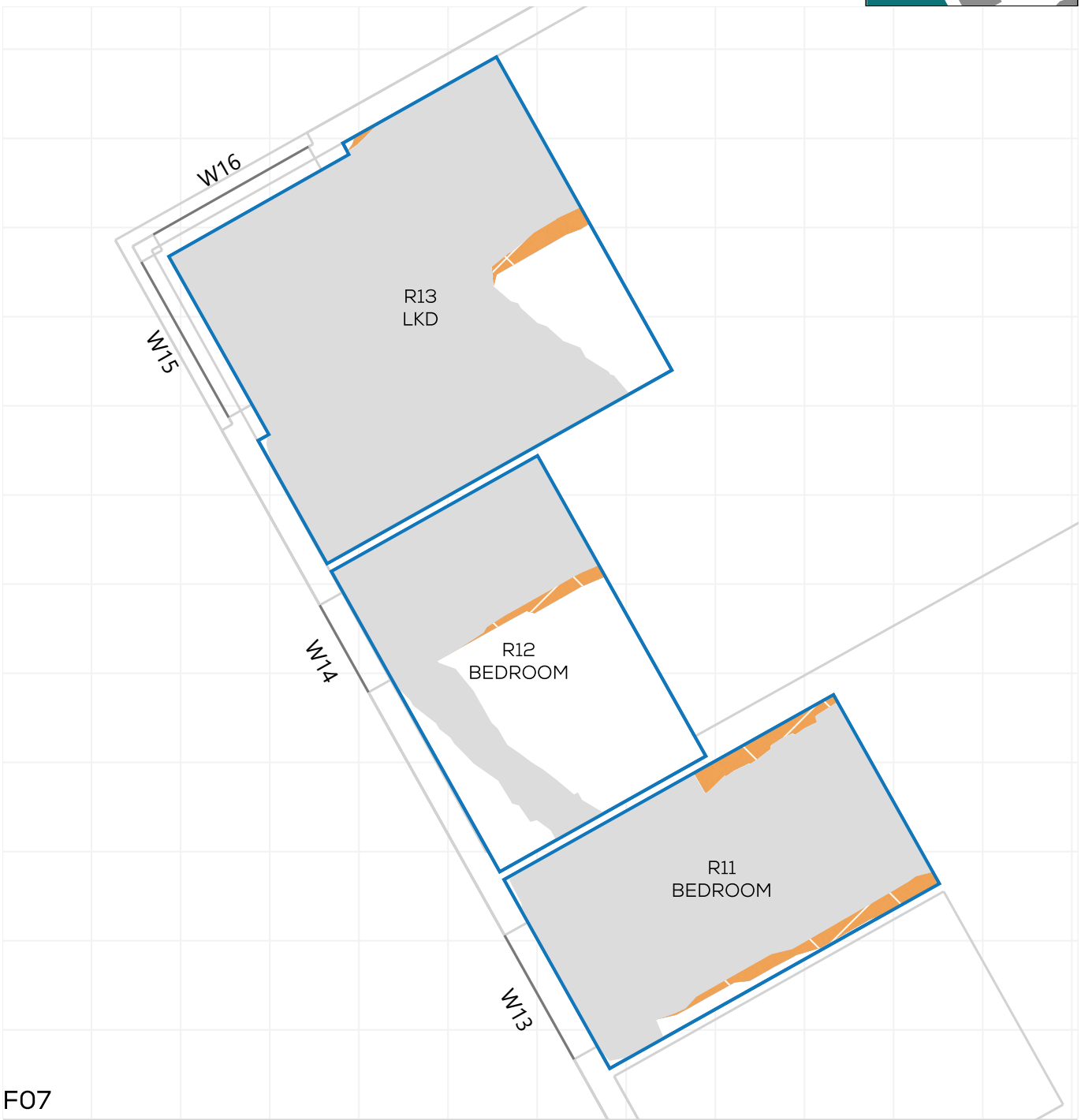
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F07	R6	RESIDENTIAL	BEDROOM	10.3	95.6	37.4	6.0	60.9
F07	R7	RESIDENTIAL	BEDROOM	11.6	92.3	43.4	5.7	53
F07	R8	RESIDENTIAL	LKD	32.8	73.7	58.2	5.1	21
F07	R9	RESIDENTIAL	LKD	32.8	97.2	72.1	8.2	25.8
F07	R10	RESIDENTIAL	BEDROOM	11.6	95.1	83.8	1.3	11.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD50

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





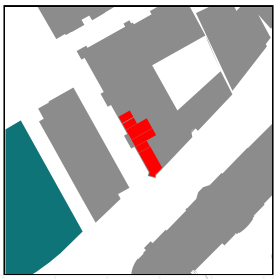
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F07	R11	RESIDENTIAL	BEDROOM	10.3	97.1	89.9	0.7	7.5
F07	R12	RESIDENTIAL	BEDROOM	10.2	50.8	49.1	0.2	3.5
F07	R13	RESIDENTIAL	LKD	17.2	89.8	88.4	0.2	1.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD51

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F08	R1	RESIDENTIAL	LKD	38.5	100	99.7	0.1	0.3
F08	R2	RESIDENTIAL	BEDROOM	9.5	99.7	60.1	3.8	39.7
F08	R3	RESIDENTIAL	LKD	20.2	100	40.6	12.0	59.4
F08	R4	RESIDENTIAL	LKD	29.6	99.4	44.8	16.2	54.9
F08	R5	RESIDENTIAL	BEDROOM	9.5	98.7	42.5	5.3	56.9
F08	R6	RESIDENTIAL	BEDROOM	10.3	95.7	37.9	6.0	60.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD52

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F08	R7	RESIDENTIAL	BEDROOM	11.6	92.5	46.4	5.4	49.8
F08	R8	RESIDENTIAL	LKD	32.8	77.3	65	4.1	16
F08	R9	RESIDENTIAL	LKD	32.8	99	75.3	7.8	24
F08	R10	RESIDENTIAL	BEDROOM	11.6	95.2	84.2	1.3	11.6
F08	R11	RESIDENTIAL	BEDROOM	10.3	97.3	90.4	0.7	7.1

NSL CONTOURS

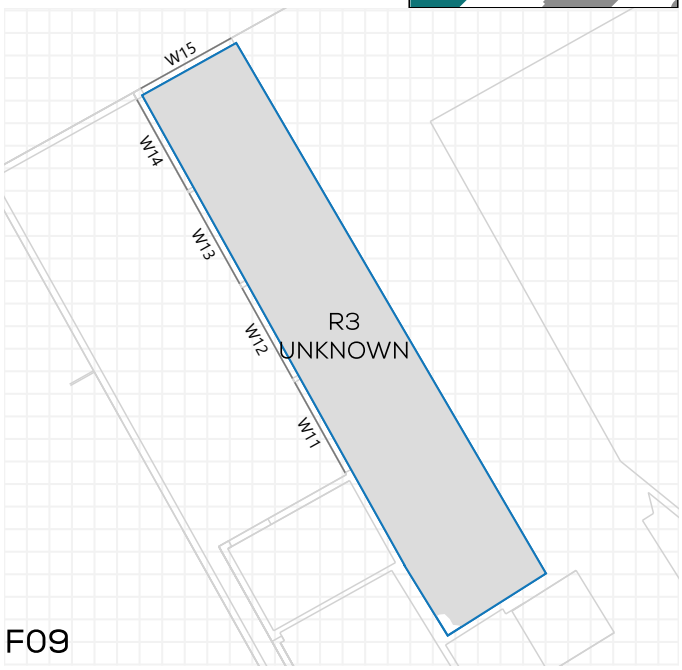
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REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: LUMIERE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD53

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

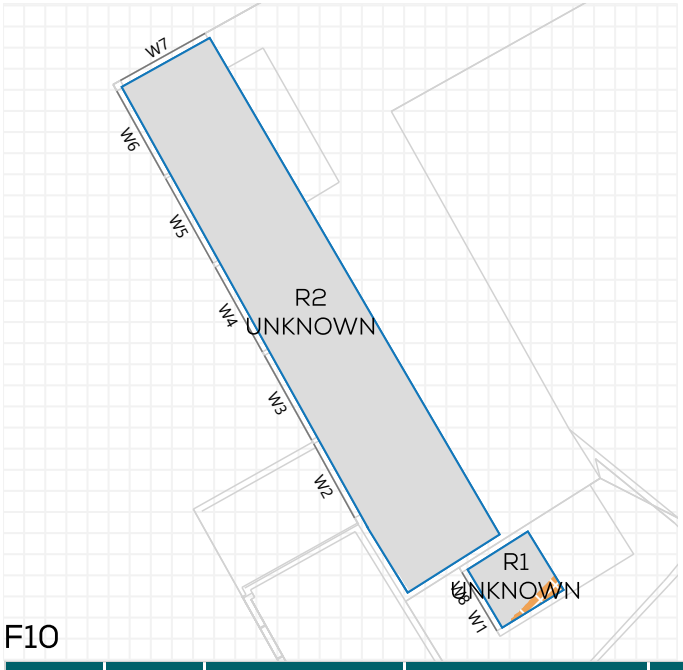




F09



F09



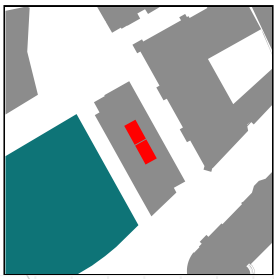
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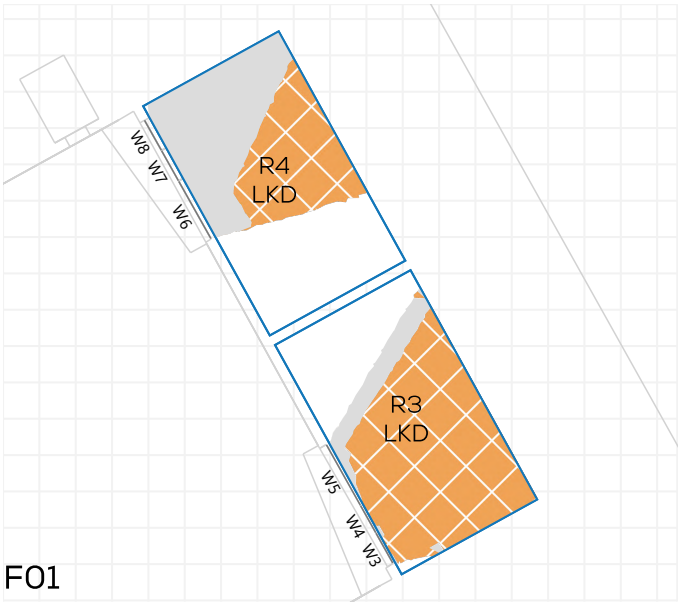
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
LUMIERE								
F09	R1	RESIDENTIAL	UNKNOWN	84.7	100	100	0.0	0
F09	R2	RESIDENTIAL	UNKNOWN	25.8	55.5	50.5	1.3	9
F09	R3	RESIDENTIAL	UNKNOWN	137.5	99.7	99.7	0.0	0
F10	R1	RESIDENTIAL	UNKNOWN	10.9	100	87.6	1.3	12.4
F10	R2	RESIDENTIAL	UNKNOWN	137.5	99.9	99.9	0.0	0

NSL CONTOURS

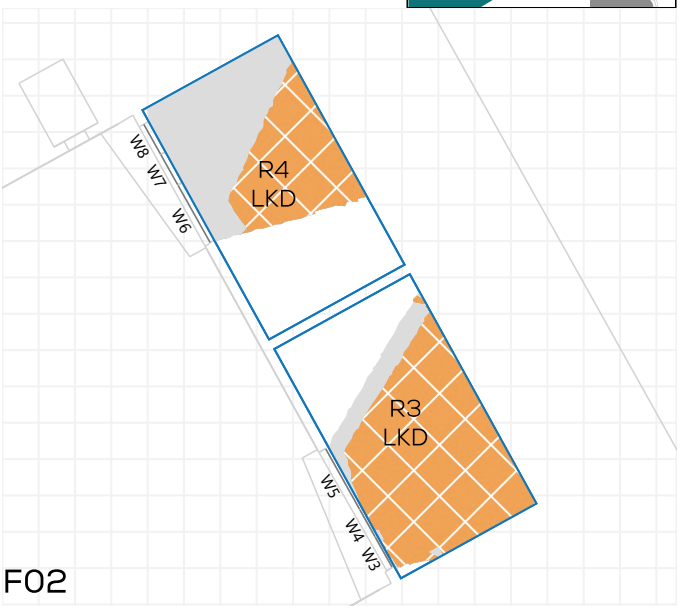
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BOATMANS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD54

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

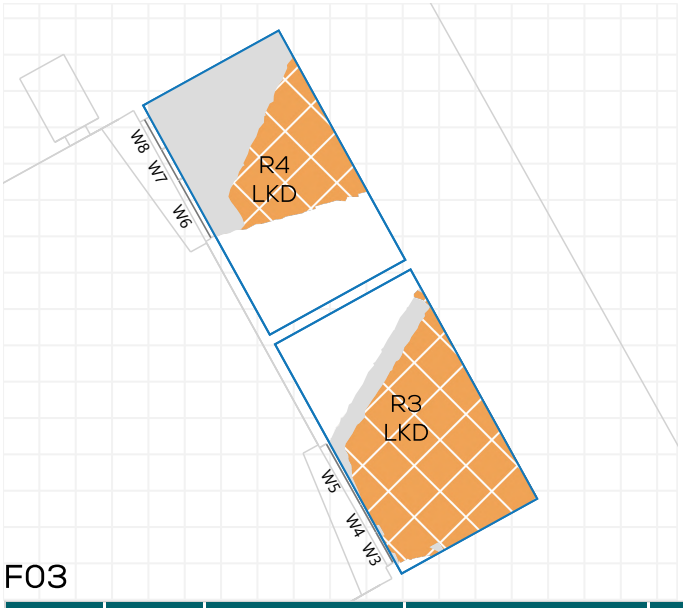




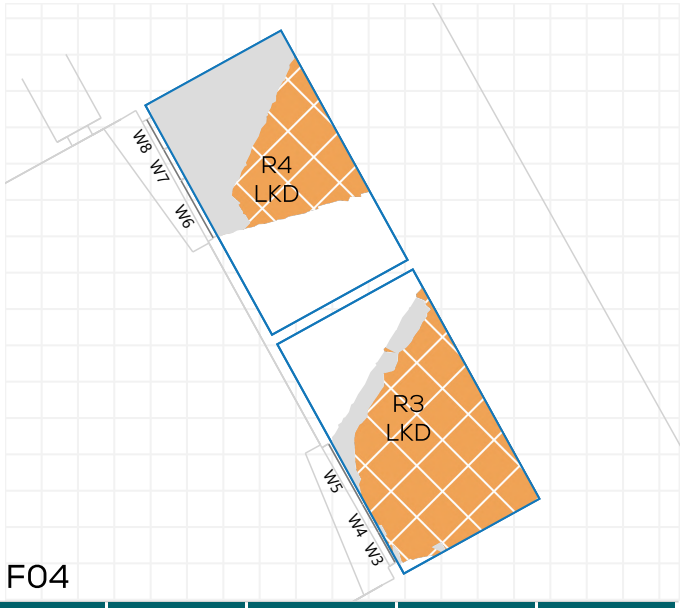
F01



F02



F03



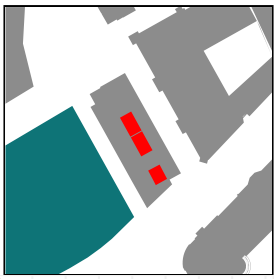
F04

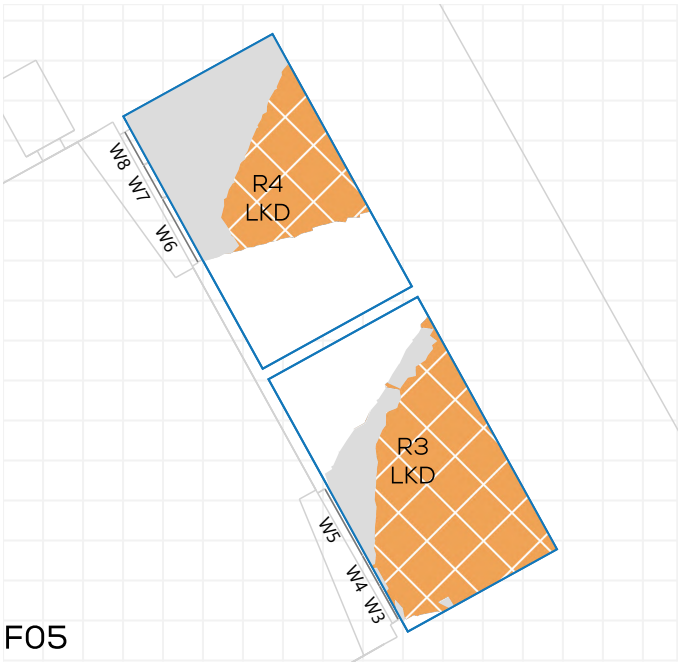
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BOATMANS								
F01	R3	RESIDENTIAL	LKD	30.7	74.7	8.9	20.2	88.1
F01	R4	RESIDENTIAL	LKD	30.7	64.2	35.1	8.9	45.3
F02	R3	RESIDENTIAL	LKD	30.7	74.6	8.6	20.3	88.5
F02	R4	RESIDENTIAL	LKD	30.7	64.1	34.5	9.1	46.2
F03	R3	RESIDENTIAL	LKD	30.7	74.6	8.7	20.3	88.4
F03	R4	RESIDENTIAL	LKD	30.7	64.1	34.4	9.1	46.4
F04	R3	RESIDENTIAL	LKD	30.7	74.7	8.9	20.2	88.1
F04	R4	RESIDENTIAL	LKD	30.7	64.1	34.6	9.0	46

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BOATMANS
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD55

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

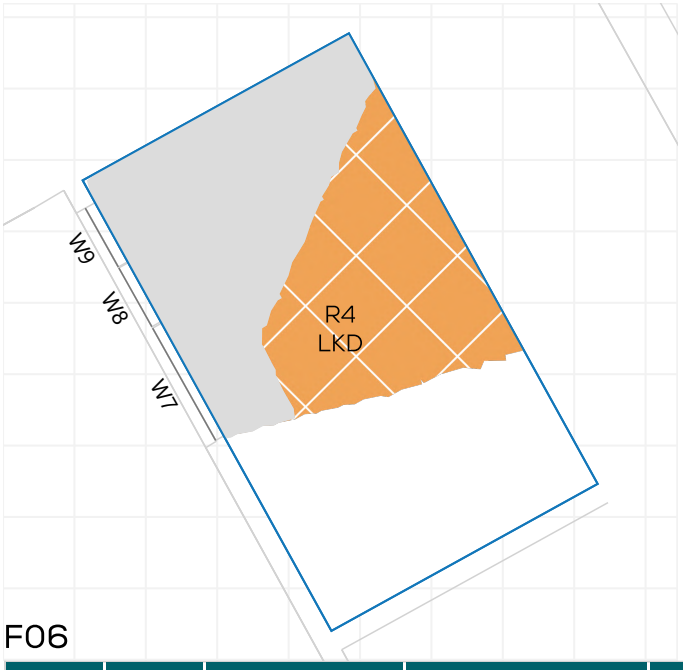




F05



F06



F06

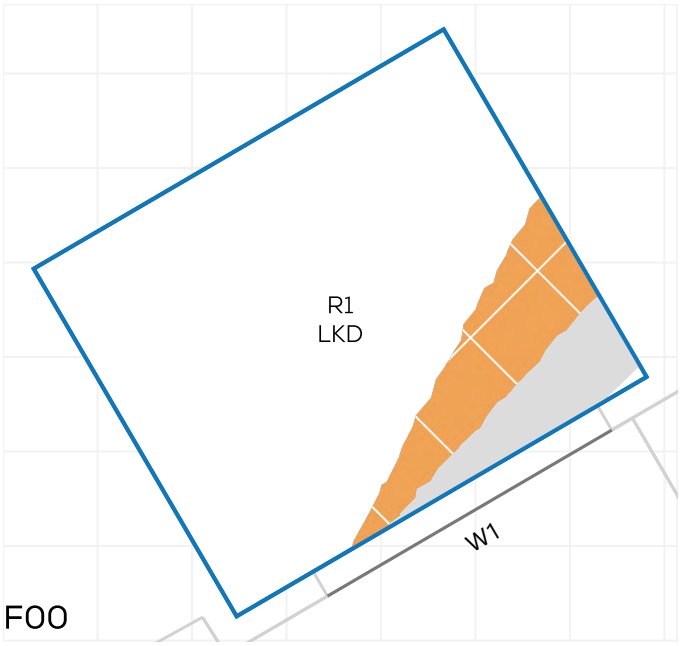
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BOATMANS								
F05	R3	RESIDENTIAL	LKD	30.7	75.5	13.5	19.0	82.1
F05	R4	RESIDENTIAL	LKD	30.7	64.1	34.8	9.0	45.8
F06	R1	RESIDENTIAL	LKD	23.2	99.9	87	3.0	12.9
F06	R3	RESIDENTIAL	LKD	30.7	86	43.6	13.0	49.3
F06	R4	RESIDENTIAL	LKD	30.7	64.2	35.2	8.9	45.2

NSL CONTOURS

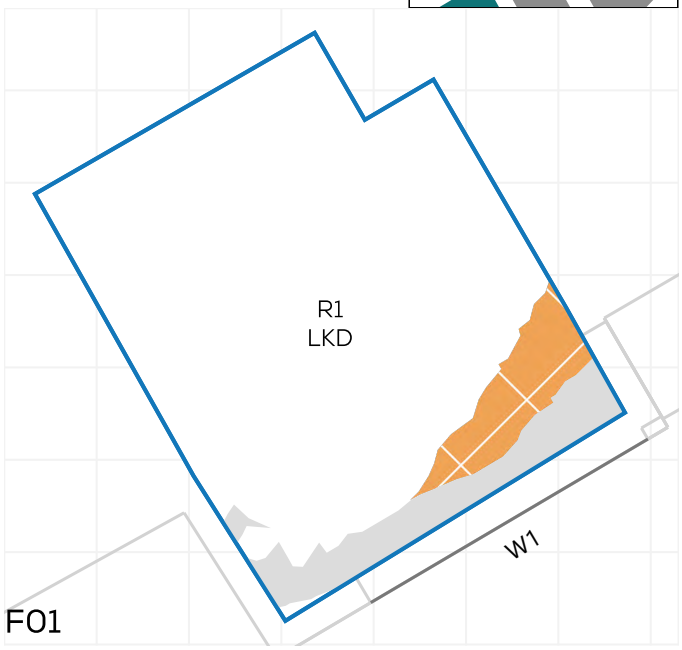
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE DANUBE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD56

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





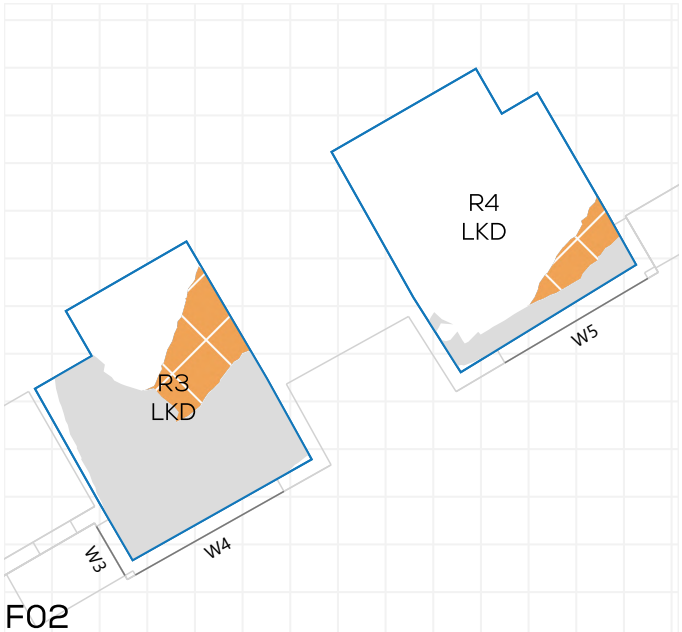
F00



F01



F02



F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE DANUBE								
F00	R1	RESIDENTIAL	LKD	21.4	19.2	7.4	2.5	61.5
F01	R1	RESIDENTIAL	LKD	22.2	15.2	8.9	1.4	41.4
F02	R1	RESIDENTIAL	BEDROOM	9.1	62.9	62.9	0.0	0
F02	R2	RESIDENTIAL	BEDROOM	7.5	48.8	44.5	0.3	8.9
F02	R3	RESIDENTIAL	LKD	21.2	75.2	60.5	3.1	19.6
F02	R4	RESIDENTIAL	LKD	22.2	16	9.7	1.4	39.5

NSL CONTOURS

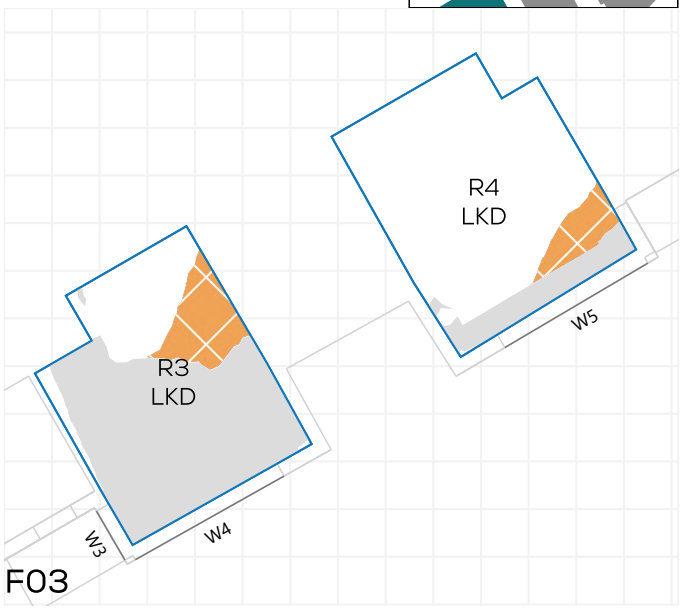
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE DANUBE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD57

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





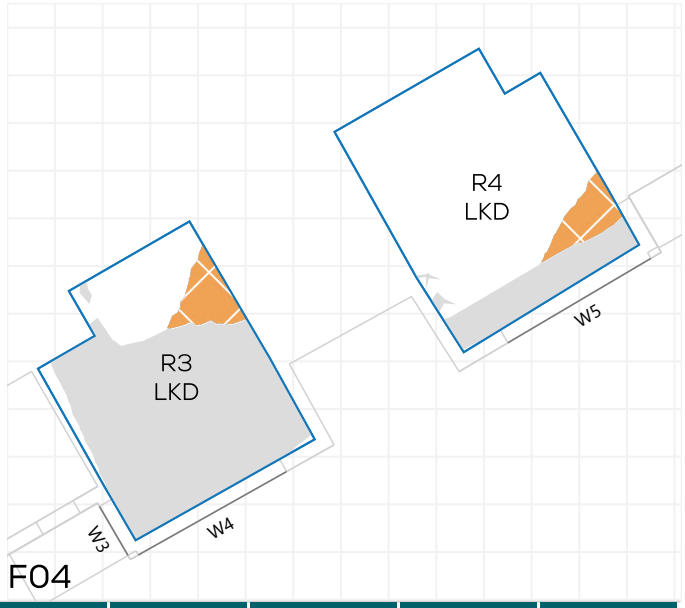
F03



F03



F04



F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE DANUBE								
F03	R1	RESIDENTIAL	BEDROOM	9.1	65.7	65.7	0.0	0
F03	R2	RESIDENTIAL	BEDROOM	7.5	51.6	47.5	0.3	8
F03	R3	RESIDENTIAL	LKD	21.2	77.2	65.6	2.4	14.9
F03	R4	RESIDENTIAL	LKD	22.2	17.5	11	1.4	36.9
F04	R1	RESIDENTIAL	BEDROOM	9.1	68.9	68.9	0.0	0
F04	R2	RESIDENTIAL	BEDROOM	7.5	52.7	50.7	0.1	3.7
F04	R3	RESIDENTIAL	LKD	21.2	79.6	73.2	1.4	8
F04	R4	RESIDENTIAL	LKD	22.2	20	14.5	1.2	27.9

NSL CONTOURS

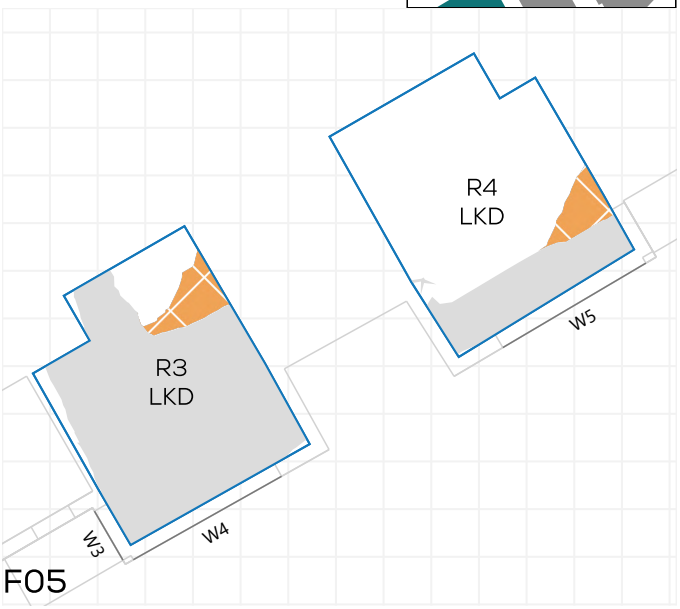
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE DANUBE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD58

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





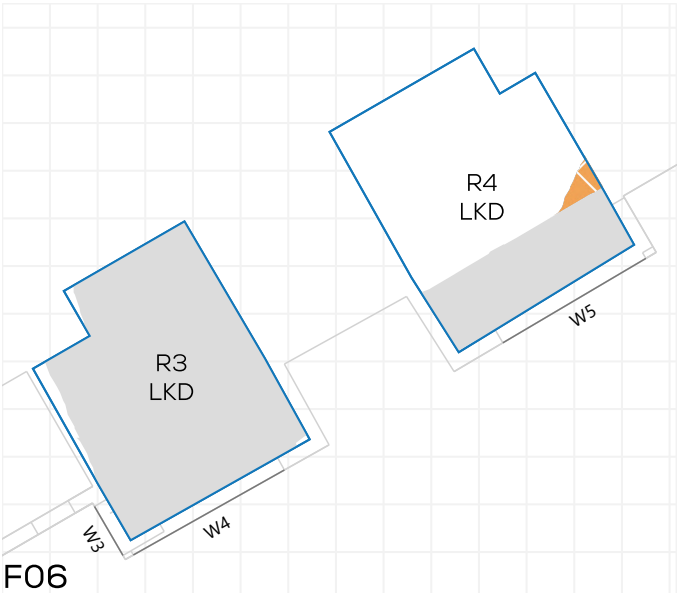
F05



F05



F06



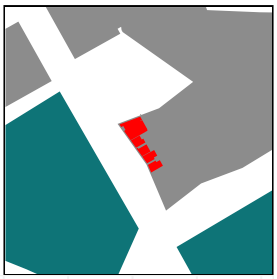
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE DANUBE								
F05	R1	RESIDENTIAL	BEDROOM	9.1	72.8	72.8	0.0	0
F05	R2	RESIDENTIAL	BEDROOM	7.5	54.5	53.1	0.1	2.6
F05	R3	RESIDENTIAL	LKD	21.2	87.4	81.4	1.3	6.8
F05	R4	RESIDENTIAL	LKD	22.2	24.5	19.7	1.1	19.7
F06	R1	RESIDENTIAL	BEDROOM	9.1	78.6	78.6	0.0	0
F06	R2	RESIDENTIAL	BEDROOM	7.5	65.9	64.6	0.1	1.9
F06	R3	RESIDENTIAL	LKD	21.2	97.3	97.3	0.0	0
F06	R4	RESIDENTIAL	LKD	22.2	29.5	27.7	0.4	6.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD59

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





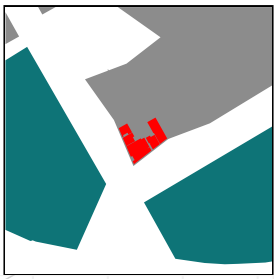
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F00	R1	RESIDENTIAL	LKD	39.4	99.4	96.6	1.1	2.8
F00	R2	RESIDENTIAL	BEDROOM	10.3	93.1	67.7	2.6	27.3
F00	R3	RESIDENTIAL	BEDROOM	9.5	95.1	45.6	4.7	52
F00	R4	RESIDENTIAL	BEDROOM	11.1	86.9	38.4	5.4	55.9
F00	R5	RESIDENTIAL	BEDROOM	11.1	95.9	37.2	6.5	61.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD60

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





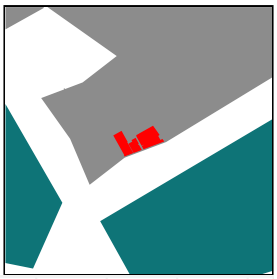
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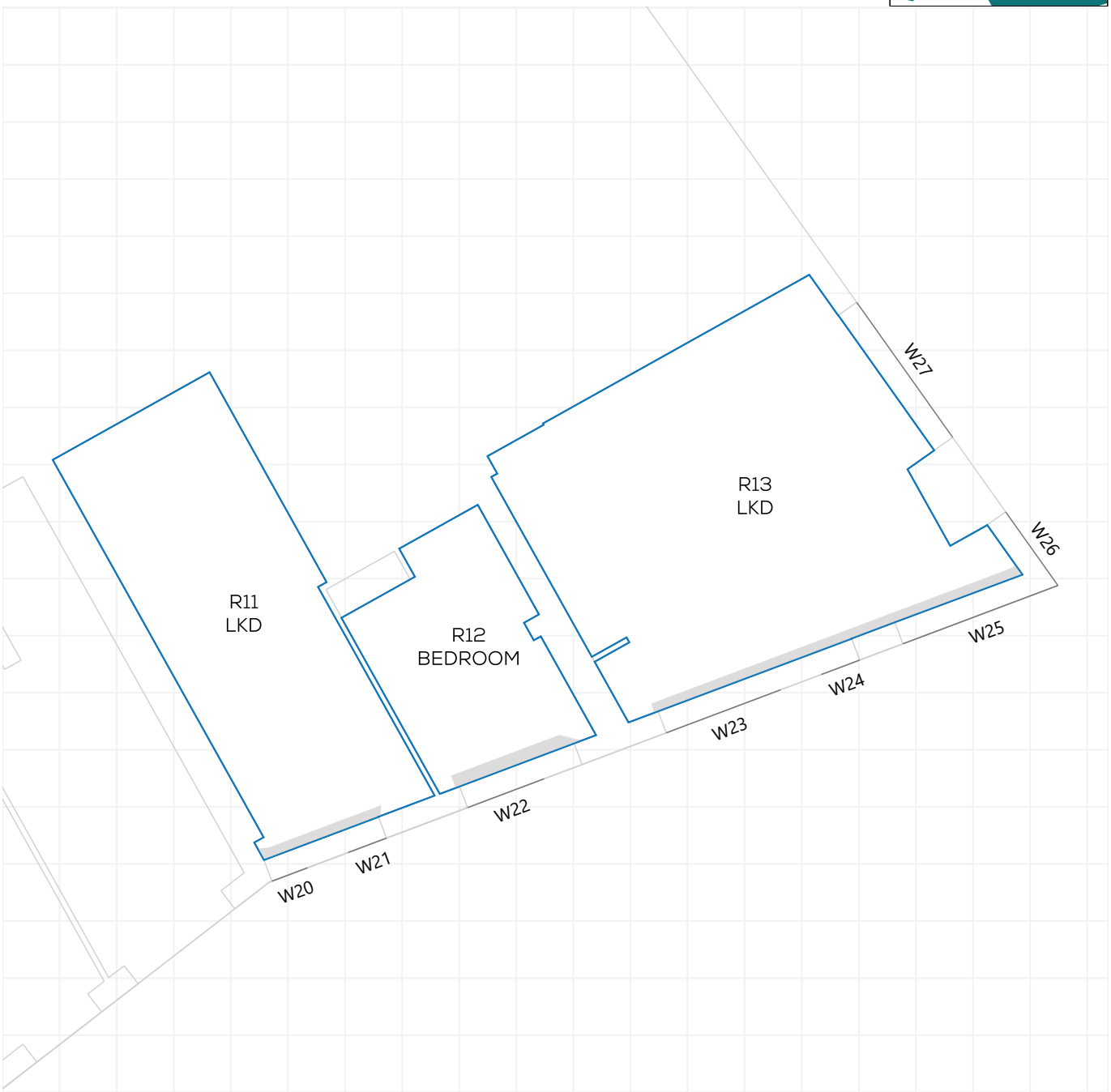
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F00	R6	RESIDENTIAL	BEDROOM	10.3	76.1	41.2	3.6	45.9
F00	R7	RESIDENTIAL	BEDROOM	10.3	99	72.9	2.7	26.4
F00	R8	RESIDENTIAL	LKD	39.1	99.6	99.5	0.1	0.2
F00	R9	RESIDENTIAL	BEDROOM	11.9	1.9	1.9	0.0	0.1
F00	R10	RESIDENTIAL	LKD	25.0	1.6	1.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD61

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





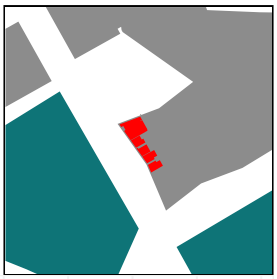
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F00	R11	RESIDENTIAL	LKD	25.1	1.6	1.6	0.0	0
F00	R12	RESIDENTIAL	BEDROOM	11.9	4.2	4.2	0.0	0.2
F00	R13	RESIDENTIAL	LKD	39.3	3	3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD62

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F01	R1	RESIDENTIAL	LKD	39.4	100	98.8	0.5	1.2
F01	R2	RESIDENTIAL	BEDROOM	10.3	99.2	59.9	4.0	39.6
F01	R3	RESIDENTIAL	BEDROOM	9.5	88	41.7	4.4	52.6
F01	R4	RESIDENTIAL	BEDROOM	11.1	93.4	34.7	6.6	62.9
F01	R5	RESIDENTIAL	BEDROOM	11.1	84	35.8	5.4	57.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD63

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



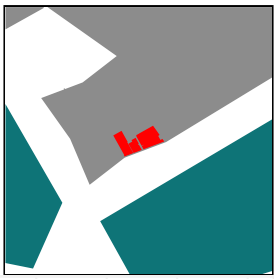
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F01	R6	RESIDENTIAL	BEDROOM	10.3	88.2	38.9	5.1	55.8
F01	R7	RESIDENTIAL	BEDROOM	10.3	99.6	81.7	1.8	17.9
F01	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F01	R9	RESIDENTIAL	BEDROOM	11.9	98.3	85.9	1.5	12.6
F01	R10	RESIDENTIAL	LKD	25.0	98.6	98.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD64

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





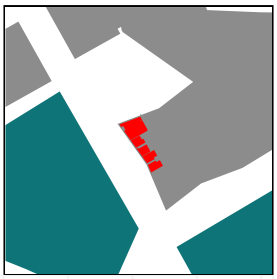
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F01	R11	RESIDENTIAL	LKD	25.1	97.2	97.2	0.0	0
F01	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F01	R13	RESIDENTIAL	LKD	39.3	99.6	98.3	0.5	1.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD65

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





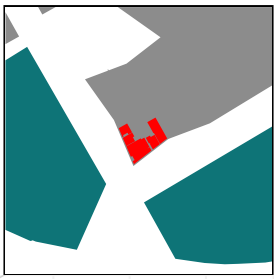
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F02	R1	RESIDENTIAL	LKD	39.4	100	98.9	0.4	1.1
F02	R2	RESIDENTIAL	BEDROOM	10.3	99.2	60.2	4.0	39.3
F02	R3	RESIDENTIAL	BEDROOM	9.5	88.1	42	4.4	52.3
F02	R4	RESIDENTIAL	BEDROOM	11.1	93.6	34.9	6.5	62.7
F02	R5	RESIDENTIAL	BEDROOM	11.1	84.3	36.1	5.4	57.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD66

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





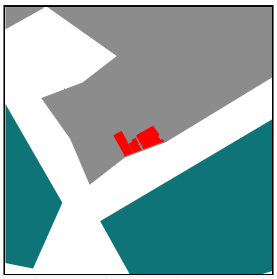
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F02	R6	RESIDENTIAL	BEDROOM	10.3	88.5	39.4	5.1	55.5
F02	R7	RESIDENTIAL	BEDROOM	10.3	99.7	82.3	1.8	17.5
F02	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F02	R9	RESIDENTIAL	BEDROOM	11.9	98.3	86.1	1.5	12.4
F02	R10	RESIDENTIAL	LKD	25.0	98.6	98.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD67

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





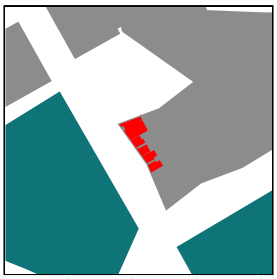
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F02	R11	RESIDENTIAL	LKD	25.1	97.2	97.2	0.0	0
F02	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F02	R13	RESIDENTIAL	LKD	39.3	99.7	99.2	0.2	0.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD68

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





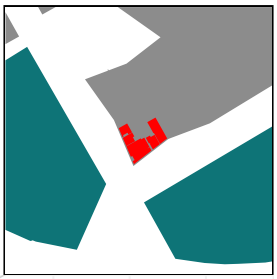
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F03	R1	RESIDENTIAL	LKD	39.4	100	99	0.4	1
F03	R2	RESIDENTIAL	BEDROOM	10.3	99.2	60.6	4.0	38.9
F03	R3	RESIDENTIAL	BEDROOM	9.5	88.2	42.7	4.3	51.6
F03	R4	RESIDENTIAL	BEDROOM	11.1	94.2	35.1	6.6	62.8
F03	R5	RESIDENTIAL	BEDROOM	11.1	85.1	36.8	5.4	56.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD69

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





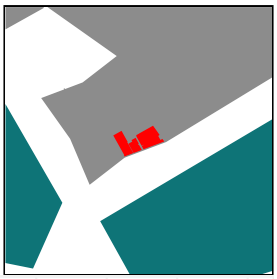
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F03	R6	RESIDENTIAL	BEDROOM	10.3	88.8	40.4	5.0	54.5
F03	R7	RESIDENTIAL	BEDROOM	10.3	99.7	83	1.7	16.8
F03	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F03	R9	RESIDENTIAL	BEDROOM	11.9	98.3	86.2	1.4	12.3
F03	R10	RESIDENTIAL	LKD	25.0	98.6	98.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD70

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





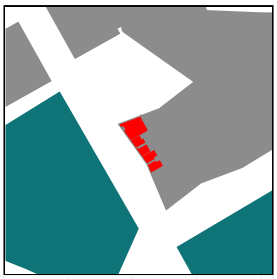
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F03	R11	RESIDENTIAL	LKD	25.1	97.2	97.2	0.0	0
F03	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F03	R13	RESIDENTIAL	LKD	39.3	99.8	99.7	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD71

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F04	R1	RESIDENTIAL	LKD	39.4	100	99	0.4	1
F04	R2	RESIDENTIAL	BEDROOM	10.3	99.2	60.7	3.9	38.8
F04	R3	RESIDENTIAL	BEDROOM	9.5	88.5	43.1	4.3	51.3
F04	R4	RESIDENTIAL	BEDROOM	11.1	94.4	35.4	6.6	62.5
F04	R5	RESIDENTIAL	BEDROOM	11.1	86.1	37.8	5.4	56.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD72

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



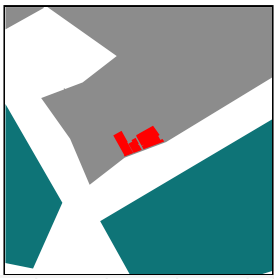
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F04	R6	RESIDENTIAL	BEDROOM	10.3	89.1	41.1	5.0	53.8
F04	R7	RESIDENTIAL	BEDROOM	10.3	99.7	83.3	1.7	16.5
F04	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F04	R9	RESIDENTIAL	BEDROOM	11.9	98.3	86.3	1.4	12.2
F04	R10	RESIDENTIAL	LKD	25.0	98.6	98.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD73

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





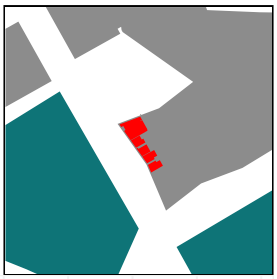
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F04	R11	RESIDENTIAL	LKD	25.1	97.2	97.2	0.0	0
F04	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F04	R13	RESIDENTIAL	LKD	39.3	99.8	99.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD74

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





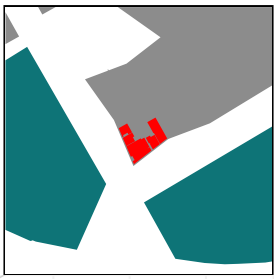
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F05	R1	RESIDENTIAL	LKD	39.4	100	99	0.4	1
F05	R2	RESIDENTIAL	BEDROOM	10.3	99.2	61.4	3.9	38.1
F05	R3	RESIDENTIAL	BEDROOM	9.5	88.7	43.5	4.3	50.9
F05	R4	RESIDENTIAL	BEDROOM	11.1	94.5	35.7	6.6	62.2
F05	R5	RESIDENTIAL	BEDROOM	11.1	86.4	38.1	5.4	55.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD75

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





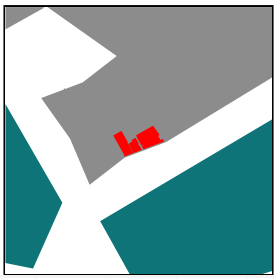
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F05	R6	RESIDENTIAL	BEDROOM	10.3	89.5	41.9	4.9	53.2
F05	R7	RESIDENTIAL	BEDROOM	10.3	99.7	83.6	1.7	16.2
F05	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F05	R9	RESIDENTIAL	BEDROOM	11.9	98.3	86.5	1.4	12
F05	R10	RESIDENTIAL	LKD	25.0	98.6	98.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD76

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





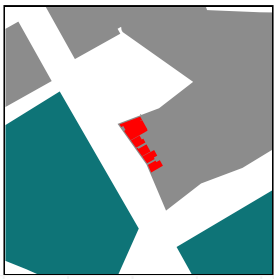
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F05	R11	RESIDENTIAL	LKD	25.1	97.2	97.2	0.0	0
F05	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F05	R13	RESIDENTIAL	LKD	39.3	99.8	99.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD77

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





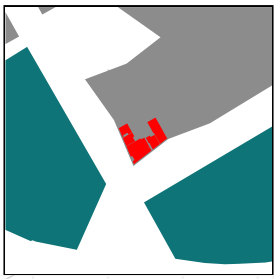
F06

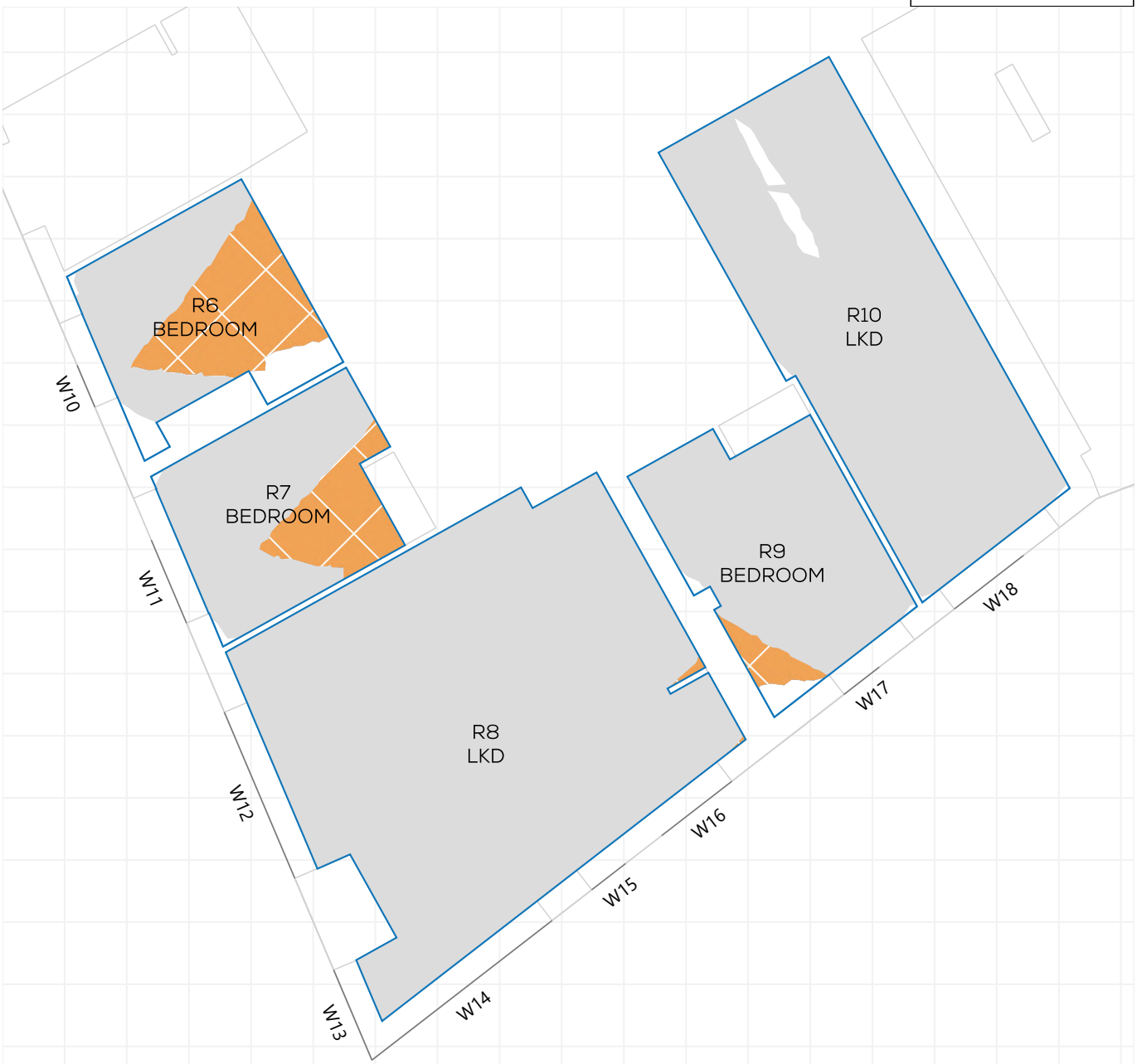
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F06	R1	RESIDENTIAL	LKD	39.4	100	99	0.4	1
F06	R2	RESIDENTIAL	BEDROOM	10.3	99.6	75.2	2.5	24.5
F06	R3	RESIDENTIAL	BEDROOM	9.5	96.1	47	4.6	51.1
F06	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.6	6.2	55.9
F06	R5	RESIDENTIAL	BEDROOM	11.1	97.1	38	6.6	60.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD78

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





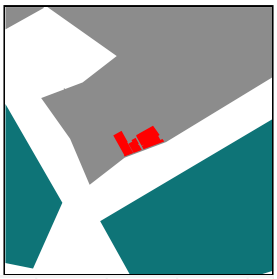
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F06	R6	RESIDENTIAL	BEDROOM	10.3	89	46.5	4.4	47.8
F06	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.3	2.7	26.2
F06	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F06	R9	RESIDENTIAL	BEDROOM	11.9	97	90.9	0.7	6.2
F06	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD79

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





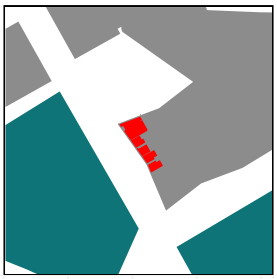
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F06	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F06	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F06	R13	RESIDENTIAL	LKD	39.3	99.8	99.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD80

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





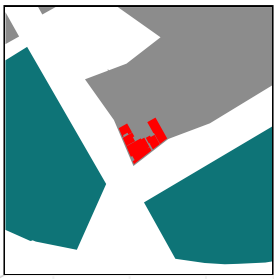
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F07	R1	RESIDENTIAL	LKD	39.4	100	99	0.4	0.9
F07	R2	RESIDENTIAL	BEDROOM	10.3	99.2	61.8	3.8	37.6
F07	R3	RESIDENTIAL	BEDROOM	9.5	89.9	44.9	4.3	50.1
F07	R4	RESIDENTIAL	BEDROOM	11.1	95.1	36.6	6.5	61.5
F07	R5	RESIDENTIAL	BEDROOM	11.1	87.6	39.4	5.4	55

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD81

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





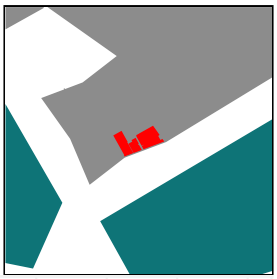
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F07	R6	RESIDENTIAL	BEDROOM	10.3	91.2	44.6	4.8	51.1
F07	R7	RESIDENTIAL	BEDROOM	10.3	99.7	84.5	1.6	15.3
F07	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F07	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86	1.4	12.3
F07	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD82

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





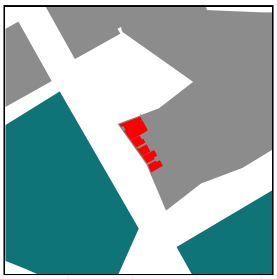
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F07	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F07	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F07	R13	RESIDENTIAL	LKD	39.3	99.8	99.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD83

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





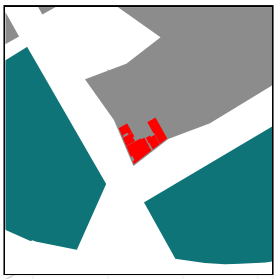
F08

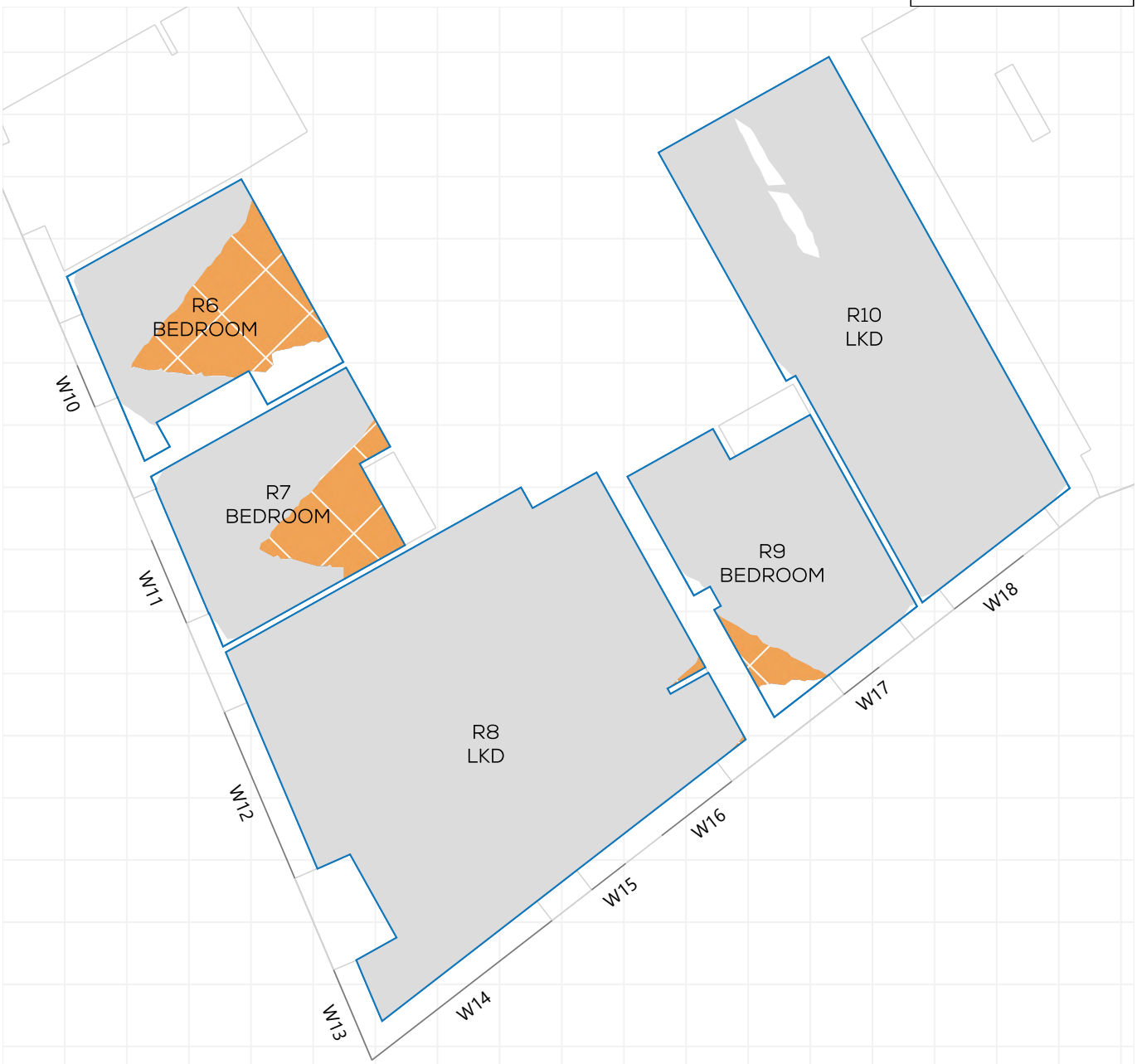
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F08	R1	RESIDENTIAL	LKD	39.4	100	99	0.4	1
F08	R2	RESIDENTIAL	BEDROOM	10.3	99.6	75.8	2.4	23.9
F08	R3	RESIDENTIAL	BEDROOM	9.5	96.5	47.6	4.6	50.7
F08	R4	RESIDENTIAL	BEDROOM	11.1	98.8	44	6.1	55.5
F08	R5	RESIDENTIAL	BEDROOM	11.1	97.4	38.2	6.6	60.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD84

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





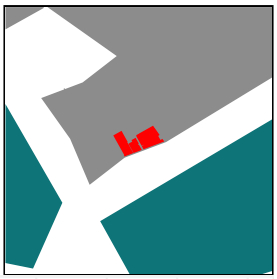
F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F08	R6	RESIDENTIAL	BEDROOM	10.3	89.4	47	4.4	47.4
F08	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.4	2.7	26.2
F08	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F08	R9	RESIDENTIAL	BEDROOM	11.9	97	90.9	0.7	6.2
F08	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD85

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





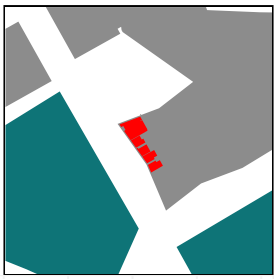
F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F08	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F08	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F08	R13	RESIDENTIAL	LKD	39.3	99.8	99.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD86

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





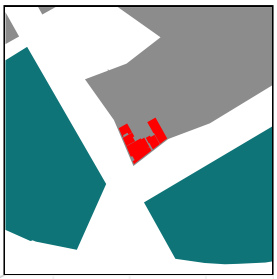
F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F09	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.4	0.9
F09	R2	RESIDENTIAL	BEDROOM	10.3	99.2	62.2	3.8	37.2
F09	R3	RESIDENTIAL	BEDROOM	9.5	90.9	45.9	4.3	49.6
F09	R4	RESIDENTIAL	BEDROOM	11.1	96.2	36.5	6.7	62
F09	R5	RESIDENTIAL	BEDROOM	11.1	89.7	40.4	5.5	55

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD87

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





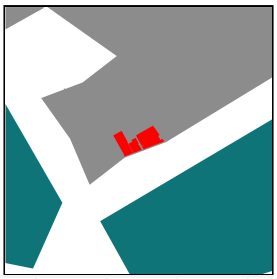
F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F09	R6	RESIDENTIAL	BEDROOM	10.3	91.9	46.2	4.7	49.7
F09	R7	RESIDENTIAL	BEDROOM	10.3	99.7	84.9	1.5	14.8
F09	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F09	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86	1.4	12.3
F09	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD88

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





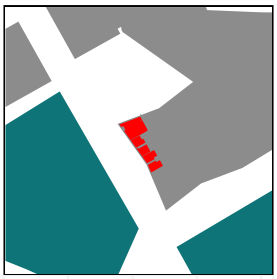
F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F09	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F09	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F09	R13	RESIDENTIAL	LKD	39.3	99.8	99.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD89

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





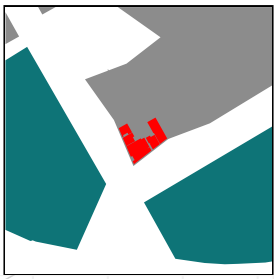
F10

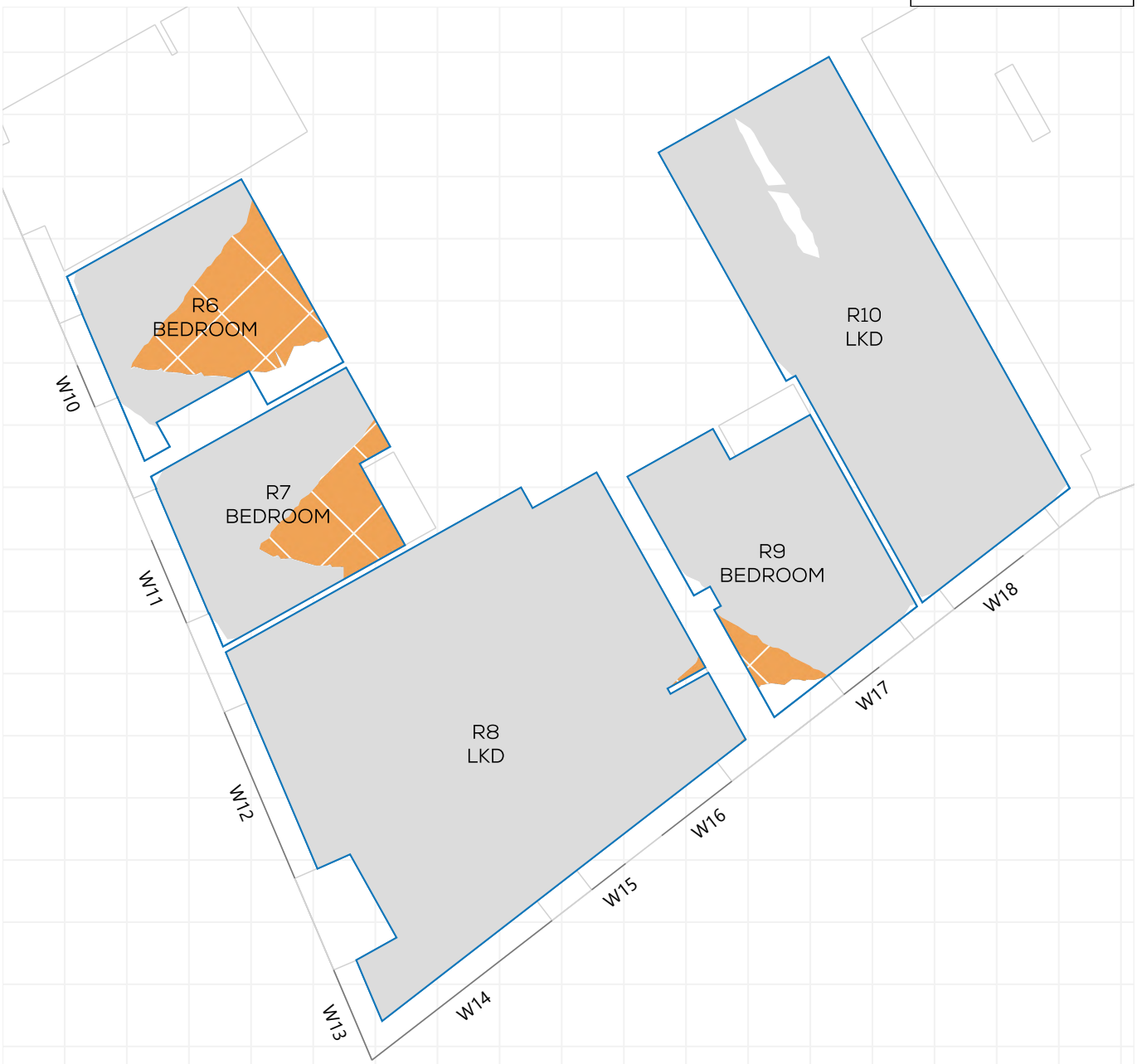
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F10	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.4	0.9
F10	R2	RESIDENTIAL	BEDROOM	10.3	99.6	76.8	2.3	23
F10	R3	RESIDENTIAL	BEDROOM	9.5	96.6	47.3	4.7	51.1
F10	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.9	6.1	55.6
F10	R5	RESIDENTIAL	BEDROOM	11.1	97.8	38.1	6.7	61.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD90

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





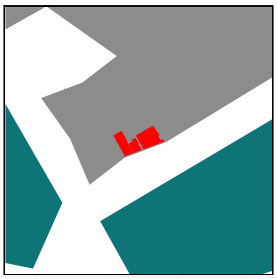
F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F10	R6	RESIDENTIAL	BEDROOM	10.3	90.1	47.1	4.4	47.7
F10	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.4	2.7	26.2
F10	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F10	R9	RESIDENTIAL	BEDROOM	11.9	97	90.9	0.7	6.2
F10	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD91

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





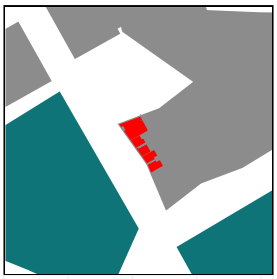
F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F10	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F10	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F10	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD92

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





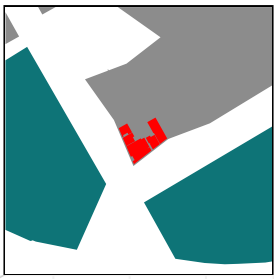
F11

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F11	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.4	0.9
F11	R2	RESIDENTIAL	BEDROOM	10.3	99.2	63.4	3.7	36.1
F11	R3	RESIDENTIAL	BEDROOM	9.5	92.7	46.5	4.4	49.8
F11	R4	RESIDENTIAL	BEDROOM	11.1	96.6	36.8	6.7	61.9
F11	R5	RESIDENTIAL	BEDROOM	11.1	90.3	40.8	5.5	54.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD93

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





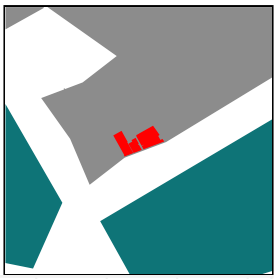
F11

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F11	R6	RESIDENTIAL	BEDROOM	10.3	92.7	46.4	4.8	49.9
F11	R7	RESIDENTIAL	BEDROOM	10.3	99.7	85.3	1.5	14.4
F11	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F11	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86	1.4	12.3
F11	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD94

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





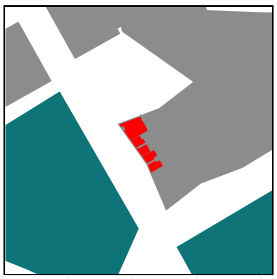
F11

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F11	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F11	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F11	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD95

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





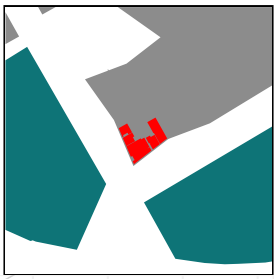
F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F12	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.4	0.9
F12	R2	RESIDENTIAL	BEDROOM	10.3	99.6	77.1	2.3	22.6
F12	R3	RESIDENTIAL	BEDROOM	9.5	97	47.5	4.7	51.1
F12	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.9	6.1	55.6
F12	R5	RESIDENTIAL	BEDROOM	11.1	97.9	38.1	6.7	61

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD96

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





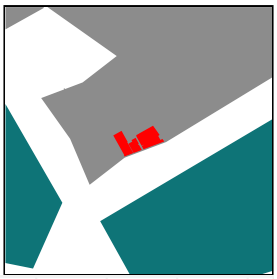
F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F12	R6	RESIDENTIAL	BEDROOM	10.3	90.8	47	4.5	48.3
F12	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.4	2.7	26.1
F12	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F12	R9	RESIDENTIAL	BEDROOM	11.9	97	90.9	0.7	6.2
F12	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD97

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





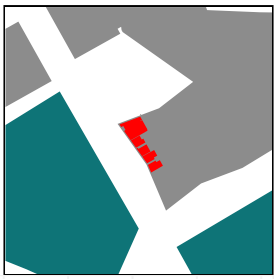
F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F12	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F12	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F12	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD98

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





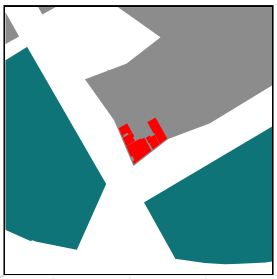
F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F13	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.3	0.9
F13	R2	RESIDENTIAL	BEDROOM	10.3	99.2	63.9	3.6	35.6
F13	R3	RESIDENTIAL	BEDROOM	9.5	93.1	47.6	4.3	48.9
F13	R4	RESIDENTIAL	BEDROOM	11.1	97.5	37.4	6.7	61.7
F13	R5	RESIDENTIAL	BEDROOM	11.1	91	41.2	5.6	54.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD99

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





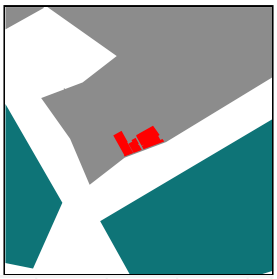
F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F13	R6	RESIDENTIAL	BEDROOM	10.3	93.6	47.2	4.8	49.6
F13	R7	RESIDENTIAL	BEDROOM	10.3	99.7	85.4	1.5	14.3
F13	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F13	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86	1.4	12.2
F13	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD100

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





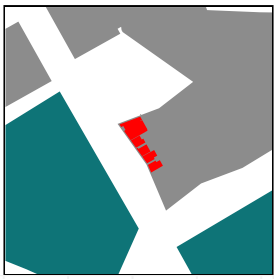
F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F13	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F13	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F13	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD101

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





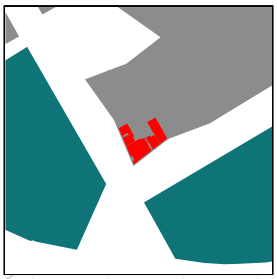
F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F14	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.4	0.9
F14	R2	RESIDENTIAL	BEDROOM	10.3	99.7	78.1	2.2	21.6
F14	R3	RESIDENTIAL	BEDROOM	9.5	97	47.6	4.7	50.9
F14	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.6	6.2	55.8
F14	R5	RESIDENTIAL	BEDROOM	11.1	98.1	38.2	6.7	61

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD102

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





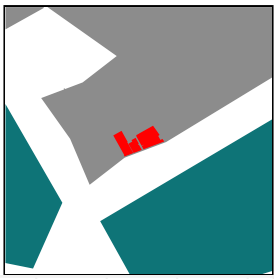
F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F14	R6	RESIDENTIAL	BEDROOM	10.3	91	46.8	4.6	48.6
F14	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.4	2.7	26.1
F14	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F14	R9	RESIDENTIAL	BEDROOM	11.9	97	90.9	0.7	6.2
F14	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD103

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





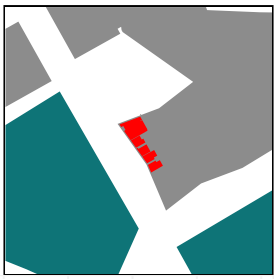
F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F14	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F14	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F14	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD104

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F15	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.4	0.9
F15	R2	RESIDENTIAL	BEDROOM	10.3	99.3	65.3	3.5	34.2
F15	R3	RESIDENTIAL	BEDROOM	9.5	94.2	48.5	4.3	48.5
F15	R4	RESIDENTIAL	BEDROOM	11.1	98.1	37.9	6.7	61.3
F15	R5	RESIDENTIAL	BEDROOM	11.1	92	41.4	5.6	55

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD105

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



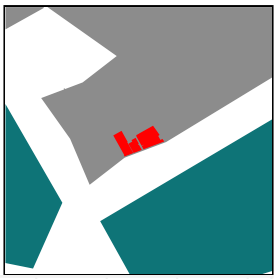
F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F15	R6	RESIDENTIAL	BEDROOM	10.3	94.7	47.8	4.8	49.5
F15	R7	RESIDENTIAL	BEDROOM	10.3	99.7	85.7	1.4	14.1
F15	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F15	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86.1	1.4	12.2
F15	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD106

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





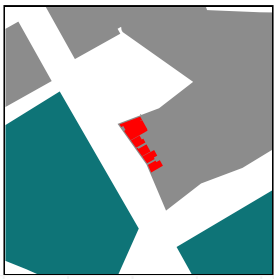
F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F15	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F15	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F15	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD107

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





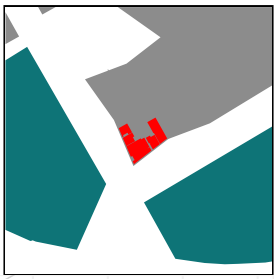
F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F16	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.4	0.9
F16	R2	RESIDENTIAL	BEDROOM	10.3	99.7	79.2	2.1	20.6
F16	R3	RESIDENTIAL	BEDROOM	9.5	97	47.9	4.7	50.7
F16	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.7	6.1	55.8
F16	R5	RESIDENTIAL	BEDROOM	11.1	98.1	38.4	6.7	60.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD108

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





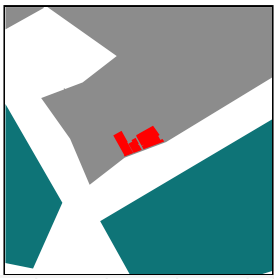
F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F16	R6	RESIDENTIAL	BEDROOM	10.3	92	46.8	4.7	49.2
F16	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.4	2.7	26.1
F16	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F16	R9	RESIDENTIAL	BEDROOM	11.9	97	91	0.7	6.2
F16	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD109

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





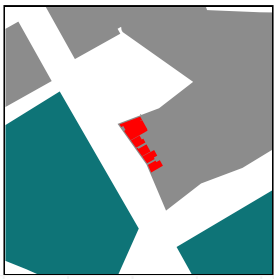
F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F16	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F16	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F16	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD110

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





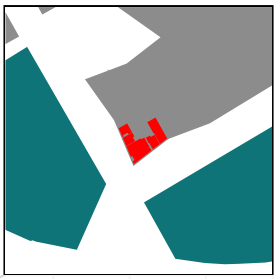
F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F17	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.3	0.9
F17	R2	RESIDENTIAL	BEDROOM	10.3	99.2	66.8	3.3	32.7
F17	R3	RESIDENTIAL	BEDROOM	9.5	94.7	49.9	4.2	47.3
F17	R4	RESIDENTIAL	BEDROOM	11.1	98.4	38.7	6.7	60.7
F17	R5	RESIDENTIAL	BEDROOM	11.1	92.7	42.1	5.6	54.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD111

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





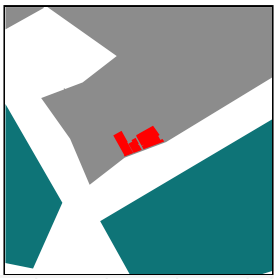
F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F17	R6	RESIDENTIAL	BEDROOM	10.3	95	48.6	4.8	48.9
F17	R7	RESIDENTIAL	BEDROOM	10.3	99.7	85.9	1.4	13.9
F17	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F17	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86.1	1.4	12.2
F17	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD112

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





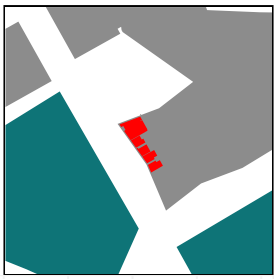
F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F17	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F17	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F17	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD113

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





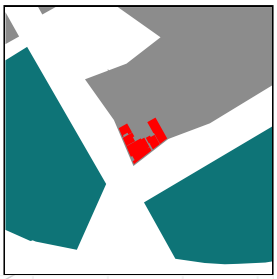
F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F18	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.4	0.9
F18	R2	RESIDENTIAL	BEDROOM	10.3	99.7	80.7	1.9	19.1
F18	R3	RESIDENTIAL	BEDROOM	9.5	97	48.3	4.6	50.2
F18	R4	RESIDENTIAL	BEDROOM	11.1	98.8	44.1	6.1	55.4
F18	R5	RESIDENTIAL	BEDROOM	11.1	98.2	38.5	6.6	60.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD114

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





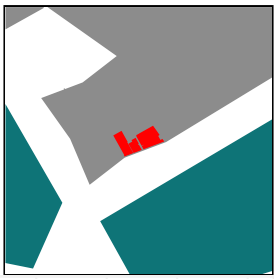
F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F18	R6	RESIDENTIAL	BEDROOM	10.3	92.5	47.1	4.7	49
F18	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F18	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F18	R9	RESIDENTIAL	BEDROOM	11.9	97	91	0.7	6.2
F18	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD115

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





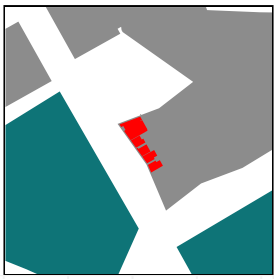
F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F18	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F18	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F18	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD116

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





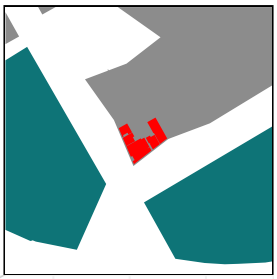
F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F19	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.4	0.9
F19	R2	RESIDENTIAL	BEDROOM	10.3	99.3	68	3.2	31.5
F19	R3	RESIDENTIAL	BEDROOM	9.5	95.8	51.6	4.2	46.1
F19	R4	RESIDENTIAL	BEDROOM	11.1	98.4	39.4	6.6	60
F19	R5	RESIDENTIAL	BEDROOM	11.1	93.9	42.5	5.7	54.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD117

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





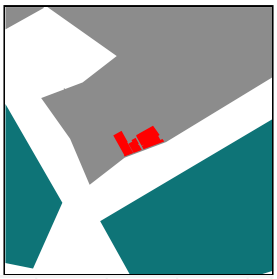
F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F19	R6	RESIDENTIAL	BEDROOM	10.3	95.8	49.5	4.8	48.4
F19	R7	RESIDENTIAL	BEDROOM	10.3	99.7	85.9	1.4	13.8
F19	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F19	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86.1	1.4	12.2
F19	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD118

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





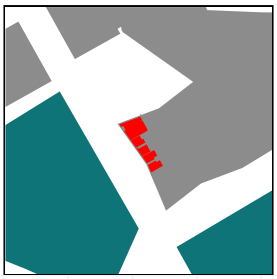
F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F19	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F19	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F19	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD119

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





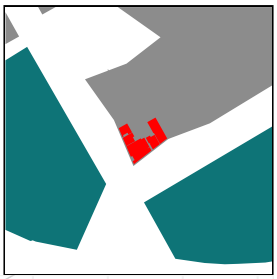
F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F20	R1	RESIDENTIAL	LKD	39.4	100	99.1	0.3	0.9
F20	R2	RESIDENTIAL	BEDROOM	10.3	99.7	82.5	1.8	17.3
F20	R3	RESIDENTIAL	BEDROOM	9.5	97	48.1	4.6	50.4
F20	R4	RESIDENTIAL	BEDROOM	11.1	98.8	44.1	6.1	55.4
F20	R5	RESIDENTIAL	BEDROOM	11.1	98.2	38.4	6.7	60.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD120

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





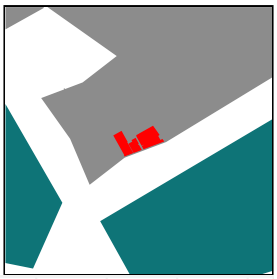
F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F20	R6	RESIDENTIAL	BEDROOM	10.3	93.6	47.2	4.8	49.6
F20	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F20	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F20	R9	RESIDENTIAL	BEDROOM	11.9	97	91	0.7	6.1
F20	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD121

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





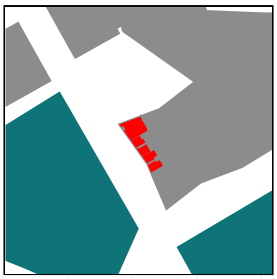
F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F20	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F20	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F20	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD122

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





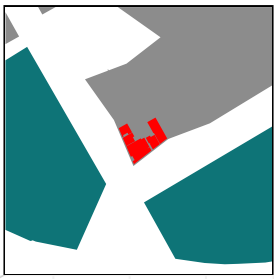
F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F21	R1	RESIDENTIAL	LKD	39.4	100	99.3	0.3	0.7
F21	R2	RESIDENTIAL	BEDROOM	10.3	99.5	69.9	3.0	29.8
F21	R3	RESIDENTIAL	BEDROOM	9.5	96.4	51.7	4.2	46.4
F21	R4	RESIDENTIAL	BEDROOM	11.1	98.4	38.8	6.6	60.6
F21	R5	RESIDENTIAL	BEDROOM	11.1	95.3	41.7	6.0	56.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD123

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





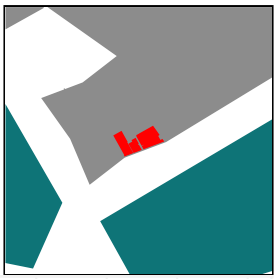
F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F21	R6	RESIDENTIAL	BEDROOM	10.3	95.9	49.3	4.8	48.6
F21	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86	1.4	13.8
F21	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F21	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86	1.4	12.3
F21	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD124

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





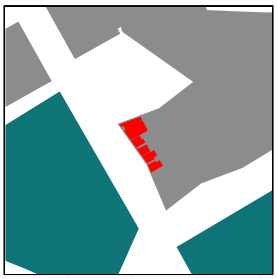
F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F21	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F21	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F21	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD125

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





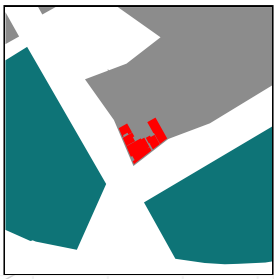
F22

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F22	R1	RESIDENTIAL	LKD	39.4	100	99.6	0.2	0.4
F22	R2	RESIDENTIAL	BEDROOM	10.3	99.7	83.9	1.6	15.9
F22	R3	RESIDENTIAL	BEDROOM	9.5	97.2	47.6	4.7	51
F22	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.9	6.1	55.6
F22	R5	RESIDENTIAL	BEDROOM	11.1	98.2	38.2	6.7	61.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD126

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





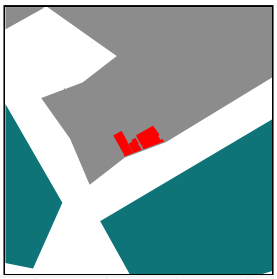
F22

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F22	R6	RESIDENTIAL	BEDROOM	10.3	93.8	47.1	4.8	49.8
F22	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F22	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F22	R9	RESIDENTIAL	BEDROOM	11.9	97	91.1	0.7	6.1
F22	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD127

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





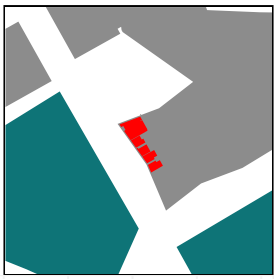
F22

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F22	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F22	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.4	0.1	1
F22	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD128

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





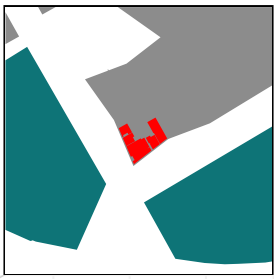
F23

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F23	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F23	R2	RESIDENTIAL	BEDROOM	10.3	99.5	71.6	2.9	28
F23	R3	RESIDENTIAL	BEDROOM	9.5	96.5	51.4	4.3	46.7
F23	R4	RESIDENTIAL	BEDROOM	11.1	98.4	38.7	6.7	60.7
F23	R5	RESIDENTIAL	BEDROOM	11.1	96.7	41.8	6.1	56.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD129

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





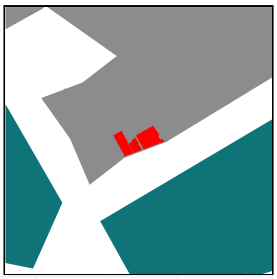
F23

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F23	R6	RESIDENTIAL	BEDROOM	10.3	95.9	48.3	4.9	49.6
F23	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86	1.4	13.8
F23	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F23	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86.1	1.4	12.2
F23	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD130

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





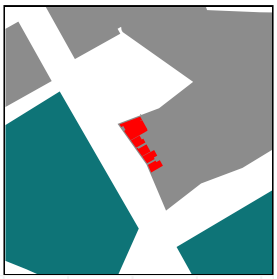
F23

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F23	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F23	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.5	0.1	1
F23	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD131

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





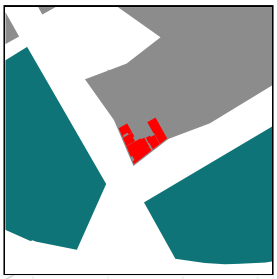
F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F24	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F24	R2	RESIDENTIAL	BEDROOM	10.3	99.7	85.4	1.5	14.4
F24	R3	RESIDENTIAL	BEDROOM	9.5	97.3	47.7	4.7	51
F24	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.6	6.2	55.8
F24	R5	RESIDENTIAL	BEDROOM	11.1	98.3	38.3	6.7	61.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD132

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





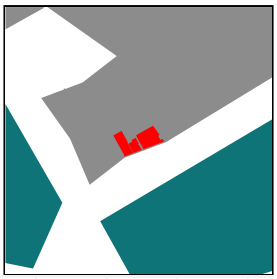
F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F24	R6	RESIDENTIAL	BEDROOM	10.3	93.8	46.8	4.9	50.1
F24	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F24	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F24	R9	RESIDENTIAL	BEDROOM	11.9	97	91.3	0.7	5.9
F24	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD133

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





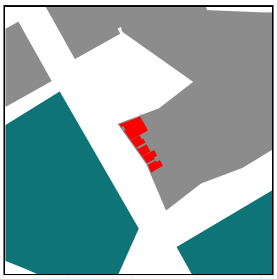
F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F24	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F24	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.5	0.1	0.9
F24	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD134

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





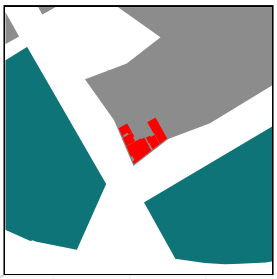
F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F25	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F25	R2	RESIDENTIAL	BEDROOM	10.3	99.5	72.4	2.8	27.2
F25	R3	RESIDENTIAL	BEDROOM	9.5	96.5	51.7	4.2	46.4
F25	R4	RESIDENTIAL	BEDROOM	11.1	98.4	38.9	6.6	60.5
F25	R5	RESIDENTIAL	BEDROOM	11.1	97.6	42.1	6.2	56.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD135

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





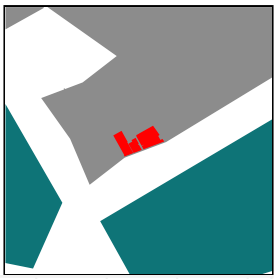
F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F25	R6	RESIDENTIAL	BEDROOM	10.3	95.9	48.5	4.9	49.4
F25	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86	1.4	13.8
F25	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F25	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86.2	1.4	12.1
F25	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD136

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





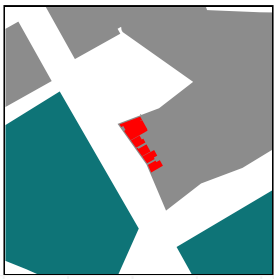
F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F25	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F25	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.5	0.1	0.9
F25	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD137

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





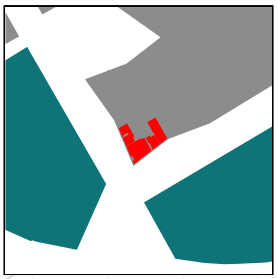
F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F26	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F26	R2	RESIDENTIAL	BEDROOM	10.3	99.7	86.2	1.4	13.5
F26	R3	RESIDENTIAL	BEDROOM	9.5	97.3	47.8	4.7	50.9
F26	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.7	6.1	55.8
F26	R5	RESIDENTIAL	BEDROOM	11.1	98.3	38.4	6.7	60.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD138

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





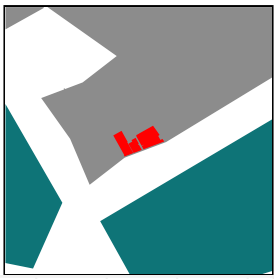
F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F26	R6	RESIDENTIAL	BEDROOM	10.3	93.9	46.8	4.9	50.2
F26	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F26	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F26	R9	RESIDENTIAL	BEDROOM	11.9	97	91.4	0.7	5.8
F26	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD139

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





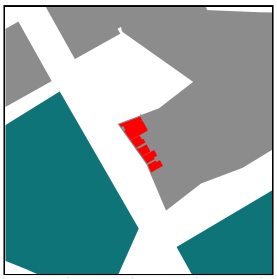
F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F26	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F26	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.5	0.1	0.9
F26	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD140

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





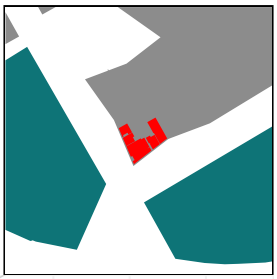
F27

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F27	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F27	R2	RESIDENTIAL	BEDROOM	10.3	99.5	74	2.6	25.7
F27	R3	RESIDENTIAL	BEDROOM	9.5	96.6	52.1	4.2	46
F27	R4	RESIDENTIAL	BEDROOM	11.1	98.4	39.3	6.6	60.1
F27	R5	RESIDENTIAL	BEDROOM	11.1	98.2	42.6	6.2	56.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD141

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





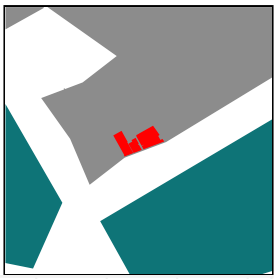
F27

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F27	R6	RESIDENTIAL	BEDROOM	10.3	95.9	49	4.8	48.9
F27	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86.1	1.4	13.7
F27	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F27	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86.3	1.4	11.9
F27	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD142

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





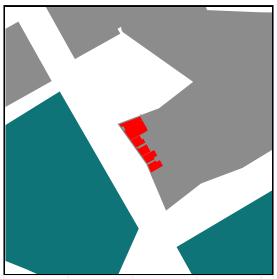
F27

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F27	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F27	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.5	0.1	0.9
F27	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD143

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





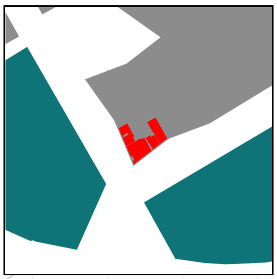
F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F28	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F28	R2	RESIDENTIAL	BEDROOM	10.3	99.7	87.6	1.2	12.2
F28	R3	RESIDENTIAL	BEDROOM	9.5	97.3	48.2	4.6	50.4
F28	R4	RESIDENTIAL	BEDROOM	11.1	98.8	44.1	6.1	55.4
F28	R5	RESIDENTIAL	BEDROOM	11.1	98.3	38.6	6.7	60.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD144

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





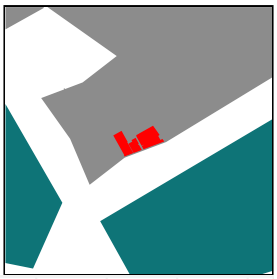
F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F28	R6	RESIDENTIAL	BEDROOM	10.3	93.9	47.2	4.8	49.8
F28	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F28	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F28	R9	RESIDENTIAL	BEDROOM	11.9	97	91.6	0.6	5.5
F28	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD145

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





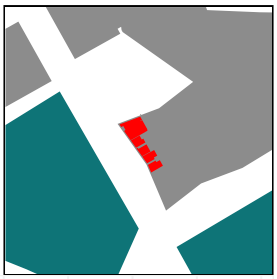
F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F28	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F28	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.6	0.1	0.8
F28	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD146

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





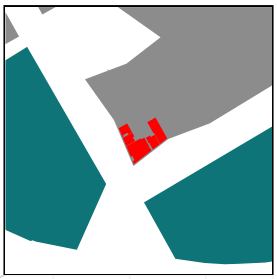
F29

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F29	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F29	R2	RESIDENTIAL	BEDROOM	10.3	99.5	75.1	2.5	24.5
F29	R3	RESIDENTIAL	BEDROOM	9.5	96.6	52.9	4.1	45.3
F29	R4	RESIDENTIAL	BEDROOM	11.1	98.4	39.8	6.5	59.6
F29	R5	RESIDENTIAL	BEDROOM	11.1	98.4	43.1	6.2	56.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD147

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





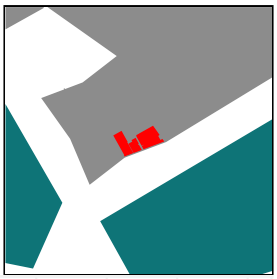
F29

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F29	R6	RESIDENTIAL	BEDROOM	10.3	95.9	49.6	4.8	48.2
F29	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86.1	1.4	13.7
F29	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F29	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86.4	1.4	11.9
F29	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD148

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





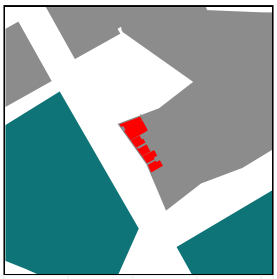
F29

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F29	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F29	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.6	0.1	0.8
F29	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD149

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





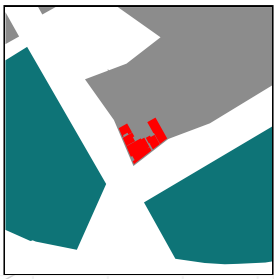
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F30	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F30	R2	RESIDENTIAL	BEDROOM	10.3	99.7	88.5	1.1	11.2
F30	R3	RESIDENTIAL	BEDROOM	9.5	97.3	48.3	4.6	50.4
F30	R4	RESIDENTIAL	BEDROOM	11.1	98.8	44.2	6.1	55.3
F30	R5	RESIDENTIAL	BEDROOM	11.1	98.3	38.7	6.6	60.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD150

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





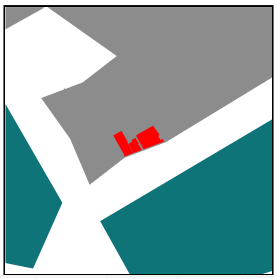
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F30	R6	RESIDENTIAL	BEDROOM	10.3	93.9	47.4	4.8	49.5
F30	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F30	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F30	R9	RESIDENTIAL	BEDROOM	11.9	97	91.8	0.6	5.3
F30	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD151

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





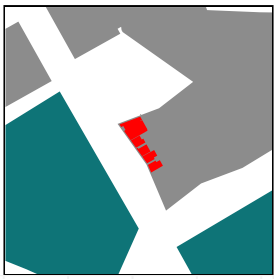
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F30	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F30	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.7	0.1	0.7
F30	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD152

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





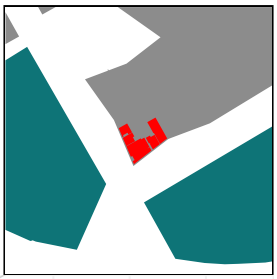
F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F31	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F31	R2	RESIDENTIAL	BEDROOM	10.3	99.5	75.3	2.5	24.3
F31	R3	RESIDENTIAL	BEDROOM	9.5	96.5	52.8	4.1	45.3
F31	R4	RESIDENTIAL	BEDROOM	11.1	98.4	39.7	6.5	59.7
F31	R5	RESIDENTIAL	BEDROOM	11.1	98.8	43.3	6.2	56.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD153

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





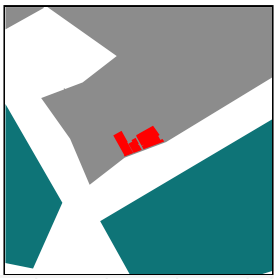
F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F31	R6	RESIDENTIAL	BEDROOM	10.3	95.9	49.6	4.8	48.2
F31	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86.1	1.4	13.7
F31	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F31	R9	RESIDENTIAL	BEDROOM	11.9	98.1	86.7	1.4	11.6
F31	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD154

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





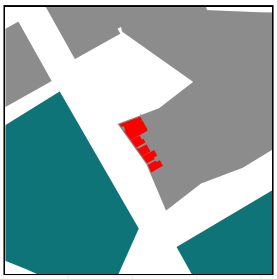
F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F31	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F31	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.8	0.1	0.6
F31	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD155

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





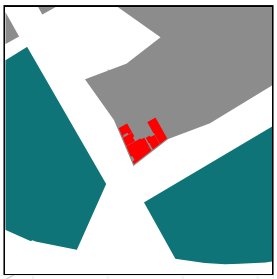
F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F32	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F32	R2	RESIDENTIAL	BEDROOM	10.3	99.7	88.5	1.1	11.2
F32	R3	RESIDENTIAL	BEDROOM	9.5	97.3	48	4.7	50.6
F32	R4	RESIDENTIAL	BEDROOM	11.1	98.8	44.1	6.1	55.4
F32	R5	RESIDENTIAL	BEDROOM	11.1	98.3	38.5	6.7	60.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD156

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





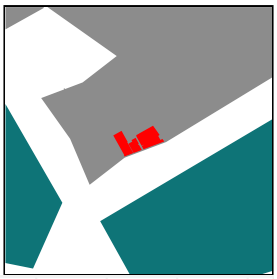
F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F32	R6	RESIDENTIAL	BEDROOM	10.3	93.9	47.4	4.8	49.6
F32	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F32	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F32	R9	RESIDENTIAL	BEDROOM	11.9	97	92.3	0.6	4.9
F32	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD157

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





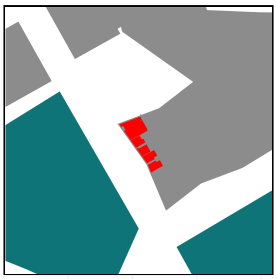
F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F32	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F32	R12	RESIDENTIAL	BEDROOM	11.9	99.4	98.9	0.1	0.5
F32	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD158

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F33	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F33	R2	RESIDENTIAL	BEDROOM	10.3	99.5	74.7	2.6	25
F33	R3	RESIDENTIAL	BEDROOM	9.5	96.5	52.1	4.2	46.1
F33	R4	RESIDENTIAL	BEDROOM	11.1	98.4	39.1	6.6	60.3
F33	R5	RESIDENTIAL	BEDROOM	11.1	98.8	42.3	6.3	57.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD159

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



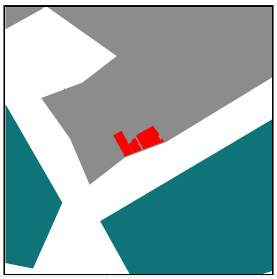
F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F33	R6	RESIDENTIAL	BEDROOM	10.3	95.9	49.2	4.8	48.7
F33	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86.1	1.4	13.7
F33	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F33	R9	RESIDENTIAL	BEDROOM	11.9	98.1	87.1	1.3	11.2
F33	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD160

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





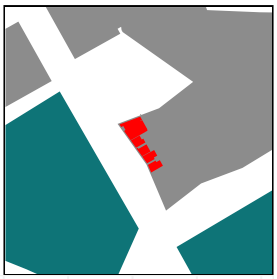
F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F33	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F33	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.1	0.0	0.3
F33	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD161

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





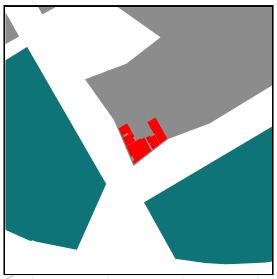
F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F34	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F34	R2	RESIDENTIAL	BEDROOM	10.3	99.7	87.7	1.2	12
F34	R3	RESIDENTIAL	BEDROOM	9.5	97.3	47.9	4.7	50.8
F34	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.6	6.2	55.9
F34	R5	RESIDENTIAL	BEDROOM	11.1	98.3	38.6	6.7	60.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD162

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





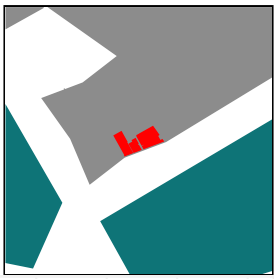
F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F34	R6	RESIDENTIAL	BEDROOM	10.3	93.9	47.1	4.8	49.9
F34	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F34	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F34	R9	RESIDENTIAL	BEDROOM	11.9	97	92.9	0.5	4.2
F34	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD163

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





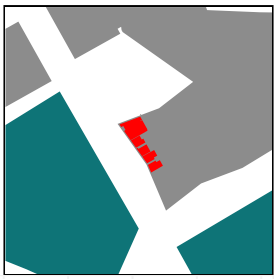
F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F34	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F34	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.3	0.0	0.1
F34	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD164

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





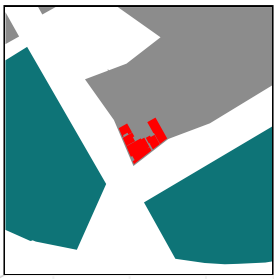
F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F35	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F35	R2	RESIDENTIAL	BEDROOM	10.3	99.5	74.5	2.6	25.2
F35	R3	RESIDENTIAL	BEDROOM	9.5	96.5	52.3	4.2	45.8
F35	R4	RESIDENTIAL	BEDROOM	11.1	98.4	39.3	6.6	60
F35	R5	RESIDENTIAL	BEDROOM	11.1	98.8	42.7	6.3	56.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD165

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





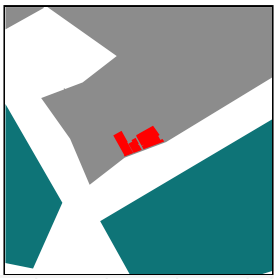
F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F35	R6	RESIDENTIAL	BEDROOM	10.3	95.9	49.2	4.8	48.7
F35	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86.1	1.4	13.7
F35	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F35	R9	RESIDENTIAL	BEDROOM	11.9	98.1	87.7	1.2	10.5
F35	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD166

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





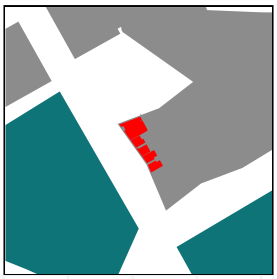
F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F35	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F35	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F35	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD167

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





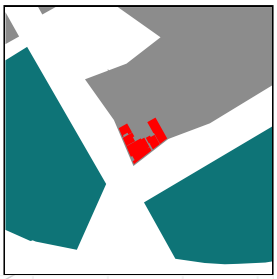
F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F36	R1	RESIDENTIAL	LKD	39.4	100	99.7	0.1	0.3
F36	R2	RESIDENTIAL	BEDROOM	10.3	99.7	87.8	1.2	11.9
F36	R3	RESIDENTIAL	BEDROOM	9.5	97.3	48.3	4.6	50.3
F36	R4	RESIDENTIAL	BEDROOM	11.1	98.8	43.9	6.1	55.5
F36	R5	RESIDENTIAL	BEDROOM	11.1	98.3	39.2	6.6	60.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD168

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





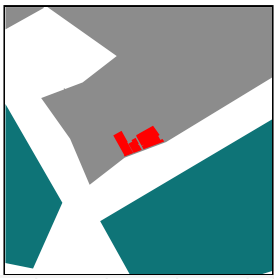
F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F36	R6	RESIDENTIAL	BEDROOM	10.3	93.9	47.4	4.8	49.5
F36	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F36	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F36	R9	RESIDENTIAL	BEDROOM	11.9	97	93.6	0.4	3.5
F36	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD169

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





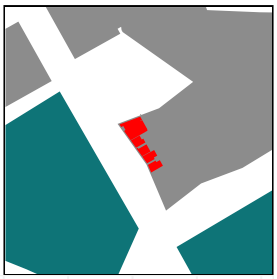
F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F36	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F36	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F36	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD170

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





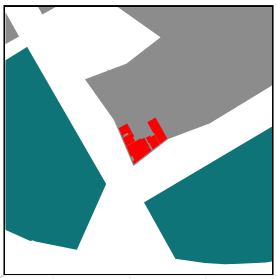
F37

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F37	R1	RESIDENTIAL	LKD	39.4	100	99.8	0.1	0.2
F37	R2	RESIDENTIAL	BEDROOM	10.3	99.5	74.9	2.5	24.8
F37	R3	RESIDENTIAL	BEDROOM	9.5	96.5	52.9	4.1	45.2
F37	R4	RESIDENTIAL	BEDROOM	11.1	98.4	39.7	6.5	59.6
F37	R5	RESIDENTIAL	BEDROOM	11.1	98.8	43.2	6.2	56.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD171

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





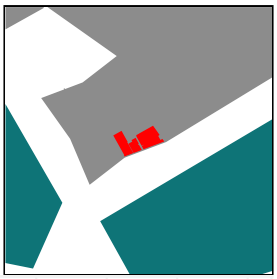
F37

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F37	R6	RESIDENTIAL	BEDROOM	10.3	95.9	49.8	4.8	48
F37	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86.1	1.4	13.6
F37	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F37	R9	RESIDENTIAL	BEDROOM	11.9	98.1	88.8	1.1	9.4
F37	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD172

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





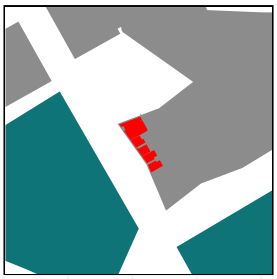
F37

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F37	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F37	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F37	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD173

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





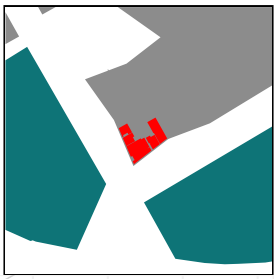
F38

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F38	R1	RESIDENTIAL	LKD	39.4	100	99.8	0.1	0.2
F38	R2	RESIDENTIAL	BEDROOM	10.3	99.7	88.2	1.2	11.5
F38	R3	RESIDENTIAL	BEDROOM	9.5	97.3	49	4.6	49.7
F38	R4	RESIDENTIAL	BEDROOM	11.1	98.8	44.7	6.0	54.8
F38	R5	RESIDENTIAL	BEDROOM	11.1	98.3	39.9	6.5	59.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD174

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





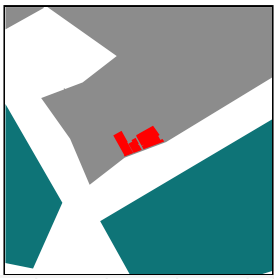
F38

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F38	R6	RESIDENTIAL	BEDROOM	10.3	93.9	48.3	4.7	48.6
F38	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.5	2.7	26.1
F38	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F38	R9	RESIDENTIAL	BEDROOM	11.9	97	94.9	0.2	2.1
F38	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD175

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





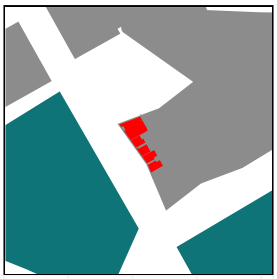
F38

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F38	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F38	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F38	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD176

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





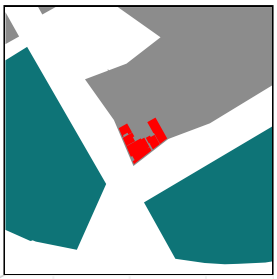
F39

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F39	R1	RESIDENTIAL	LKD	39.4	100	99.8	0.1	0.2
F39	R2	RESIDENTIAL	BEDROOM	10.3	99.5	75.5	2.5	24.1
F39	R3	RESIDENTIAL	BEDROOM	9.5	96.6	54.1	4.0	44
F39	R4	RESIDENTIAL	BEDROOM	11.1	98.4	40.9	6.4	58.4
F39	R5	RESIDENTIAL	BEDROOM	11.1	98.8	44.6	6.0	54.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD177

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





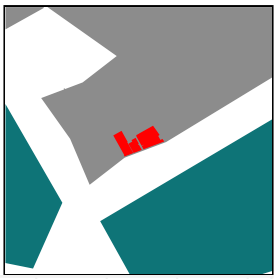
F39

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F39	R6	RESIDENTIAL	BEDROOM	10.3	95.9	51.2	4.6	46.6
F39	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86.1	1.4	13.6
F39	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F39	R9	RESIDENTIAL	BEDROOM	11.9	98.1	90.5	0.9	7.7
F39	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD178

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





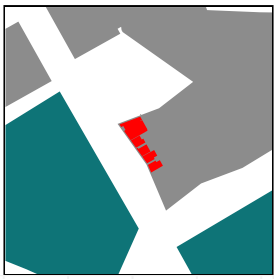
F39

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F39	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F39	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F39	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD179

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





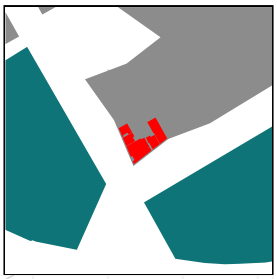
F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F40	R1	RESIDENTIAL	LKD	39.4	100	99.8	0.1	0.2
F40	R2	RESIDENTIAL	BEDROOM	10.3	99.7	88.9	1.1	10.9
F40	R3	RESIDENTIAL	BEDROOM	9.5	97.3	50.7	4.4	47.9
F40	R4	RESIDENTIAL	BEDROOM	11.1	98.8	46.1	5.9	53.3
F40	R5	RESIDENTIAL	BEDROOM	11.1	98.3	41.2	6.4	58.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD180

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





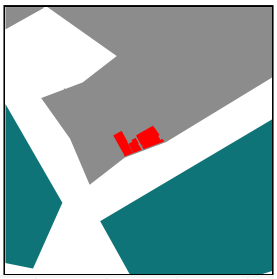
F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F40	R6	RESIDENTIAL	BEDROOM	10.3	93.9	49.9	4.6	46.9
F40	R7	RESIDENTIAL	BEDROOM	10.3	99.4	73.8	2.6	25.8
F40	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F40	R9	RESIDENTIAL	BEDROOM	11.9	97	96.3	0.1	0.7
F40	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD181

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





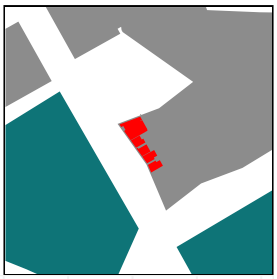
F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F40	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F40	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F40	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD182

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





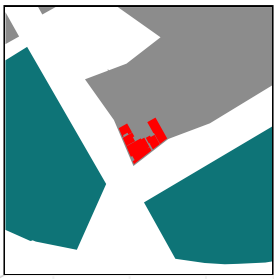
F41

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F41	R1	RESIDENTIAL	LKD	39.4	100	99.8	0.1	0.2
F41	R2	RESIDENTIAL	BEDROOM	10.3	99.5	76.4	2.4	23.3
F41	R3	RESIDENTIAL	BEDROOM	9.5	96.6	56.6	3.8	41.4
F41	R4	RESIDENTIAL	BEDROOM	11.1	98.4	42.7	6.2	56.6
F41	R5	RESIDENTIAL	BEDROOM	11.1	98.8	46.8	5.8	52.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD183

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





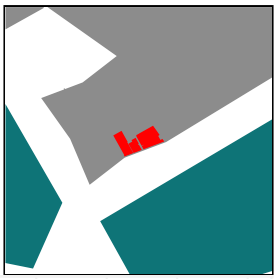
F41

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F41	R6	RESIDENTIAL	BEDROOM	10.3	95.9	53.4	4.4	44.3
F41	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86.1	1.4	13.6
F41	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F41	R9	RESIDENTIAL	BEDROOM	11.9	98.1	93.2	0.6	4.9
F41	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD184

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F41

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F41	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F41	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F41	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD185

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



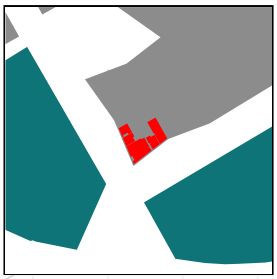
F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F42	R1	RESIDENTIAL	LKD	39.4	100	99.8	0.1	0.2
F42	R2	RESIDENTIAL	BEDROOM	10.3	99.7	89.1	1.1	10.6
F42	R3	RESIDENTIAL	BEDROOM	9.5	97.3	53.5	4.1	45
F42	R4	RESIDENTIAL	BEDROOM	11.1	98.8	48.5	5.6	51
F42	R5	RESIDENTIAL	BEDROOM	11.1	98.3	43.5	6.1	55.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD186

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





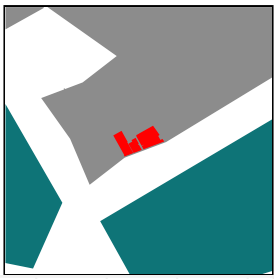
F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F42	R6	RESIDENTIAL	BEDROOM	10.3	93.9	52.6	4.3	44
F42	R7	RESIDENTIAL	BEDROOM	10.3	99.4	75.2	2.5	24.4
F42	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F42	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F42	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD187

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





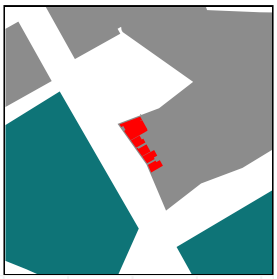
F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F42	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F42	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F42	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD188

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





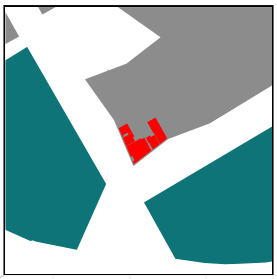
F43

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F43	R1	RESIDENTIAL	LKD	39.4	100	99.8	0.1	0.2
F43	R2	RESIDENTIAL	BEDROOM	10.3	99.5	77.8	2.2	21.8
F43	R3	RESIDENTIAL	BEDROOM	9.5	96.5	59.9	3.5	37.9
F43	R4	RESIDENTIAL	BEDROOM	11.1	98.4	46	5.8	53.3
F43	R5	RESIDENTIAL	BEDROOM	11.1	98.8	50.5	5.4	48.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD189

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





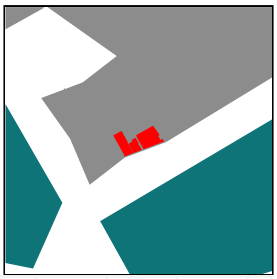
F43

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F43	R6	RESIDENTIAL	BEDROOM	10.3	95.9	57.1	4.0	40.5
F43	R7	RESIDENTIAL	BEDROOM	10.3	99.7	86.6	1.4	13.2
F43	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F43	R9	RESIDENTIAL	BEDROOM	11.9	98.1	96.1	0.2	2
F43	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD190

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





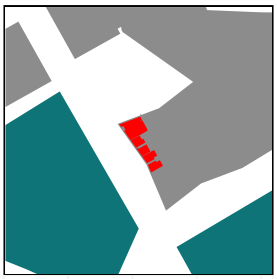
F43

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F43	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F43	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F43	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD191

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





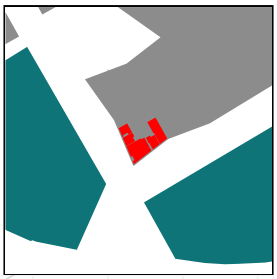
F44

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F44	R1	RESIDENTIAL	LKD	39.4	100	99.8	0.1	0.2
F44	R2	RESIDENTIAL	BEDROOM	10.3	99.7	89.7	1.0	10
F44	R3	RESIDENTIAL	BEDROOM	9.5	97.3	58.8	3.6	39.5
F44	R4	RESIDENTIAL	BEDROOM	11.1	98.8	53.1	5.1	46.3
F44	R5	RESIDENTIAL	BEDROOM	11.1	98.3	48.4	5.6	50.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD192

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





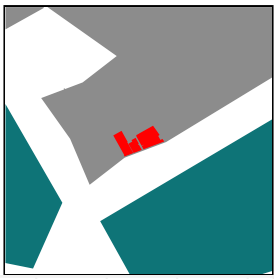
F44

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F44	R6	RESIDENTIAL	BEDROOM	10.3	93.9	57.5	3.8	38.8
F44	R7	RESIDENTIAL	BEDROOM	10.3	99.4	78.8	2.1	20.8
F44	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F44	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F44	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD193

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





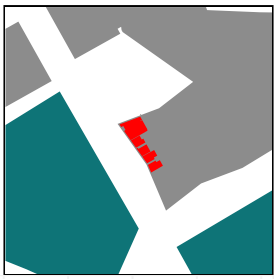
F44

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F44	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F44	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F44	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD194

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





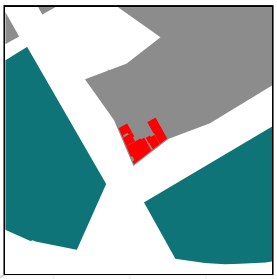
F45

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F45	R1	RESIDENTIAL	LKD	39.4	100	99.9	0.1	0.1
F45	R2	RESIDENTIAL	BEDROOM	10.3	99.5	82.7	1.7	16.9
F45	R3	RESIDENTIAL	BEDROOM	9.5	96.5	67.8	2.7	29.7
F45	R4	RESIDENTIAL	BEDROOM	11.1	98.4	52.9	5.1	46.3
F45	R5	RESIDENTIAL	BEDROOM	11.1	98.8	57.3	4.6	42

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD195

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





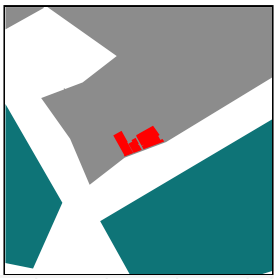
F45

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F45	R6	RESIDENTIAL	BEDROOM	10.3	95.9	65.1	3.2	32.1
F45	R7	RESIDENTIAL	BEDROOM	10.3	99.7	89.8	1.0	10
F45	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F45	R9	RESIDENTIAL	BEDROOM	11.9	98.1	97.8	0.0	0.2
F45	R10	RESIDENTIAL	LKD	25.0	98.4	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD196

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





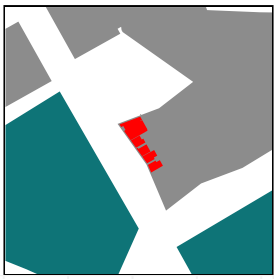
F45

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F45	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F45	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F45	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD197

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





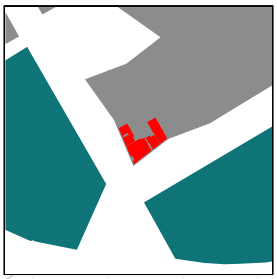
F46

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F46	R1	RESIDENTIAL	LKD	39.4	100	99.9	0.1	0.1
F46	R2	RESIDENTIAL	BEDROOM	10.3	99.7	94	0.6	5.7
F46	R3	RESIDENTIAL	BEDROOM	9.5	97.3	72.2	2.4	25.8
F46	R4	RESIDENTIAL	BEDROOM	11.1	98.8	63.2	4.0	36.1
F46	R5	RESIDENTIAL	BEDROOM	11.1	98.3	59.6	4.3	39.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD198

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





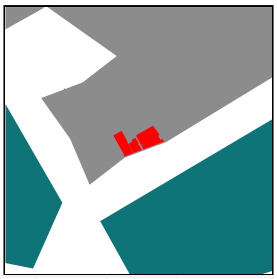
F46

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F46	R6	RESIDENTIAL	BEDROOM	10.3	93.9	68.9	2.6	26.7
F46	R7	RESIDENTIAL	BEDROOM	10.3	99.4	87.8	1.2	11.7
F46	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F46	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F46	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD199

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





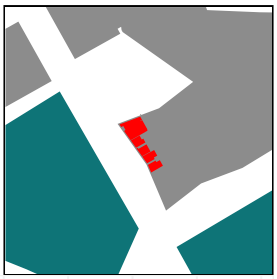
F46

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F46	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F46	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F46	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD200

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





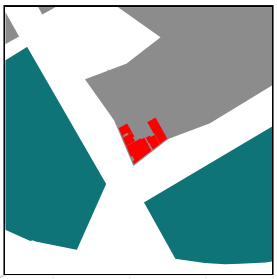
F47

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F47	R1	RESIDENTIAL	LKD	39.4	100	99.9	0.1	0.1
F47	R2	RESIDENTIAL	BEDROOM	10.3	99.5	96.7	0.3	2.9
F47	R3	RESIDENTIAL	BEDROOM	9.5	96.5	87.4	0.9	9.5
F47	R4	RESIDENTIAL	BEDROOM	11.1	98.4	69	3.3	29.9
F47	R5	RESIDENTIAL	BEDROOM	11.1	98.8	74.3	2.7	24.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD201

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





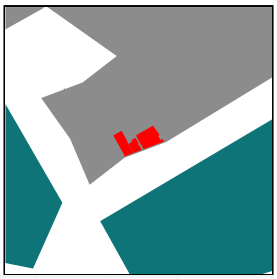
F47

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F47	R6	RESIDENTIAL	BEDROOM	10.3	95.9	84.2	1.2	12.1
F47	R7	RESIDENTIAL	BEDROOM	10.3	99.7	99.1	0.1	0.6
F47	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F47	R9	RESIDENTIAL	BEDROOM	11.9	98.1	98	0.0	0
F47	R10	RESIDENTIAL	LKD	25.0	98.4	98.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD202

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





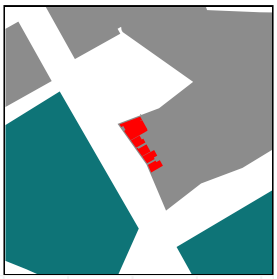
F47

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F47	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F47	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F47	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD203

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





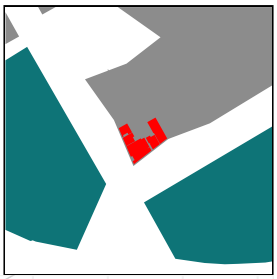
F48

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F48	R1	RESIDENTIAL	LKD	39.4	100	99.9	0.1	0.1
F48	R2	RESIDENTIAL	BEDROOM	10.3	99.7	99.7	0.0	0
F48	R3	RESIDENTIAL	BEDROOM	9.5	97.3	96.9	0.0	0.4
F48	R4	RESIDENTIAL	BEDROOM	11.1	98.8	84.6	1.6	14.4
F48	R5	RESIDENTIAL	BEDROOM	11.1	98.3	82.2	1.8	16.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD204

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





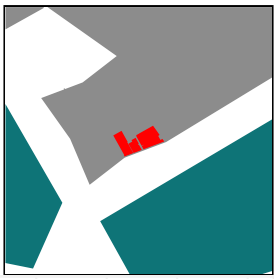
F48

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F48	R6	RESIDENTIAL	BEDROOM	10.3	93.9	92.6	0.1	1.4
F48	R7	RESIDENTIAL	BEDROOM	10.3	99.4	99.4	0.0	0
F48	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F48	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F48	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD205

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





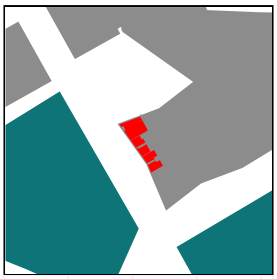
F48

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F48	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F48	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F48	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD206

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





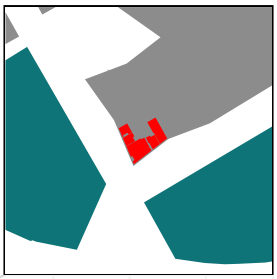
F49

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F49	R1	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F49	R2	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F49	R3	RESIDENTIAL	BEDROOM	9.5	96.5	96.5	0.0	0
F49	R4	RESIDENTIAL	BEDROOM	11.1	98.4	98.4	0.0	0
F49	R5	RESIDENTIAL	BEDROOM	11.1	98.8	98.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD207

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





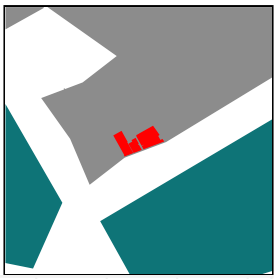
F49

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F49	R6	RESIDENTIAL	BEDROOM	10.3	95.9	95.9	0.0	0
F49	R7	RESIDENTIAL	BEDROOM	10.3	99.7	99.7	0.0	0
F49	R8	RESIDENTIAL	LKD	39.1	100	99.9	0.1	0.1
F49	R9	RESIDENTIAL	BEDROOM	11.9	98.1	98.1	0.0	0
F49	R10	RESIDENTIAL	LKD	25.0	98.4	98.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD208

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





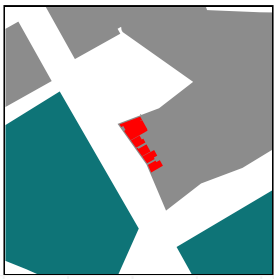
F49

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F49	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F49	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F49	R13	RESIDENTIAL	LKD	39.3	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD209

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





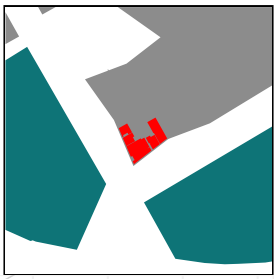
F50

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F50	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F50	R2	RESIDENTIAL	BEDROOM	10.3	99.7	99.7	0.0	0
F50	R3	RESIDENTIAL	BEDROOM	9.5	97.3	97.3	0.0	0
F50	R4	RESIDENTIAL	BEDROOM	11.1	98.8	98.8	0.0	0
F50	R5	RESIDENTIAL	BEDROOM	11.1	98.3	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD210

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





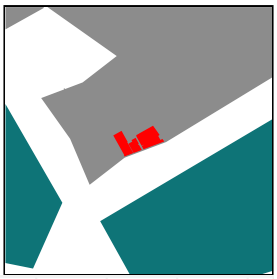
F50

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F50	R6	RESIDENTIAL	BEDROOM	10.3	93.9	93.9	0.0	0
F50	R7	RESIDENTIAL	BEDROOM	10.3	99.4	99.4	0.0	0
F50	R8	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F50	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F50	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD211

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





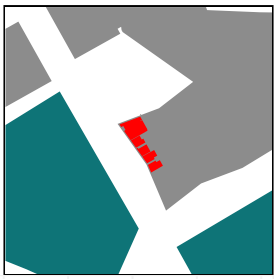
F50

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F50	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F50	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F50	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD212

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F51

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F51	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F51	R2	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F51	R3	RESIDENTIAL	BEDROOM	9.5	96.6	96.6	0.0	0
F51	R4	RESIDENTIAL	BEDROOM	11.1	98.4	98.4	0.0	0
F51	R5	RESIDENTIAL	BEDROOM	11.1	98.8	98.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD213

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



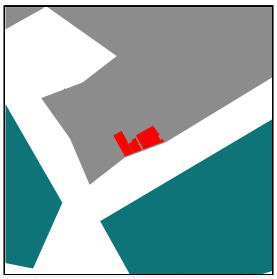
F51

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F51	R6	RESIDENTIAL	BEDROOM	10.3	95.9	95.9	0.0	0
F51	R7	RESIDENTIAL	BEDROOM	10.3	99.7	99.7	0.0	0
F51	R8	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F51	R9	RESIDENTIAL	BEDROOM	11.9	98.1	98.1	0.0	0
F51	R10	RESIDENTIAL	LKD	25.0	98.4	98.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE SOUTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD214

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





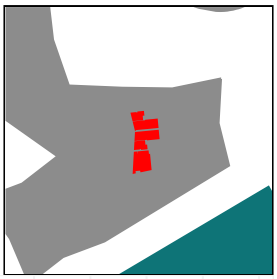
F51

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE SOUTH TOWER								
F51	R11	RESIDENTIAL	LKD	25.1	97.4	97.4	0.0	0
F51	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F51	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD215

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F02	R1	RESIDENTIAL	LKD	39.1	99.1	98.8	0.1	0.3
F02	R2	RESIDENTIAL	BEDROOM	11.9	44.6	44.6	0.0	0
F02	R3	RESIDENTIAL	LKD	25.0	45.4	45.4	0.0	0
F02	R4	RESIDENTIAL	LKD	25.1	32.8	32.8	0.0	0
F02	R5	RESIDENTIAL	BEDROOM	11.9	73.1	72.1	0.1	1.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD216

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





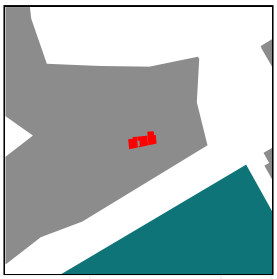
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F02	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F02	R7	RESIDENTIAL	LKD	39.4	100	98.4	0.6	1.6
F02	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.1	1.2	11.8
F02	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62	3.0	33.5
F02	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.2	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD217

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





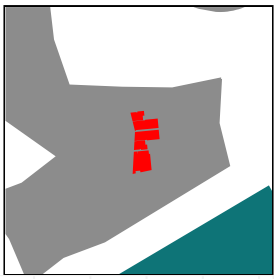
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F02	R11	RESIDENTIAL	BEDROOM	11.1	97.2	57.7	4.4	40.6
F02	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63	2.9	31.2
F02	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD218

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F03	R1	RESIDENTIAL	LKD	39.1	99.1	98.8	0.1	0.3
F03	R2	RESIDENTIAL	BEDROOM	11.9	44.8	44.8	0.0	0
F03	R3	RESIDENTIAL	LKD	25.0	46.5	46.5	0.0	0
F03	R4	RESIDENTIAL	LKD	25.1	33.4	33.4	0.0	0
F03	R5	RESIDENTIAL	BEDROOM	11.9	73.5	72.5	0.1	1.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD219

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





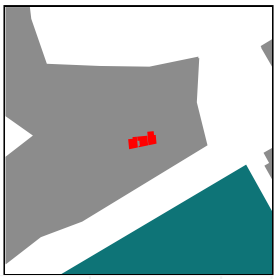
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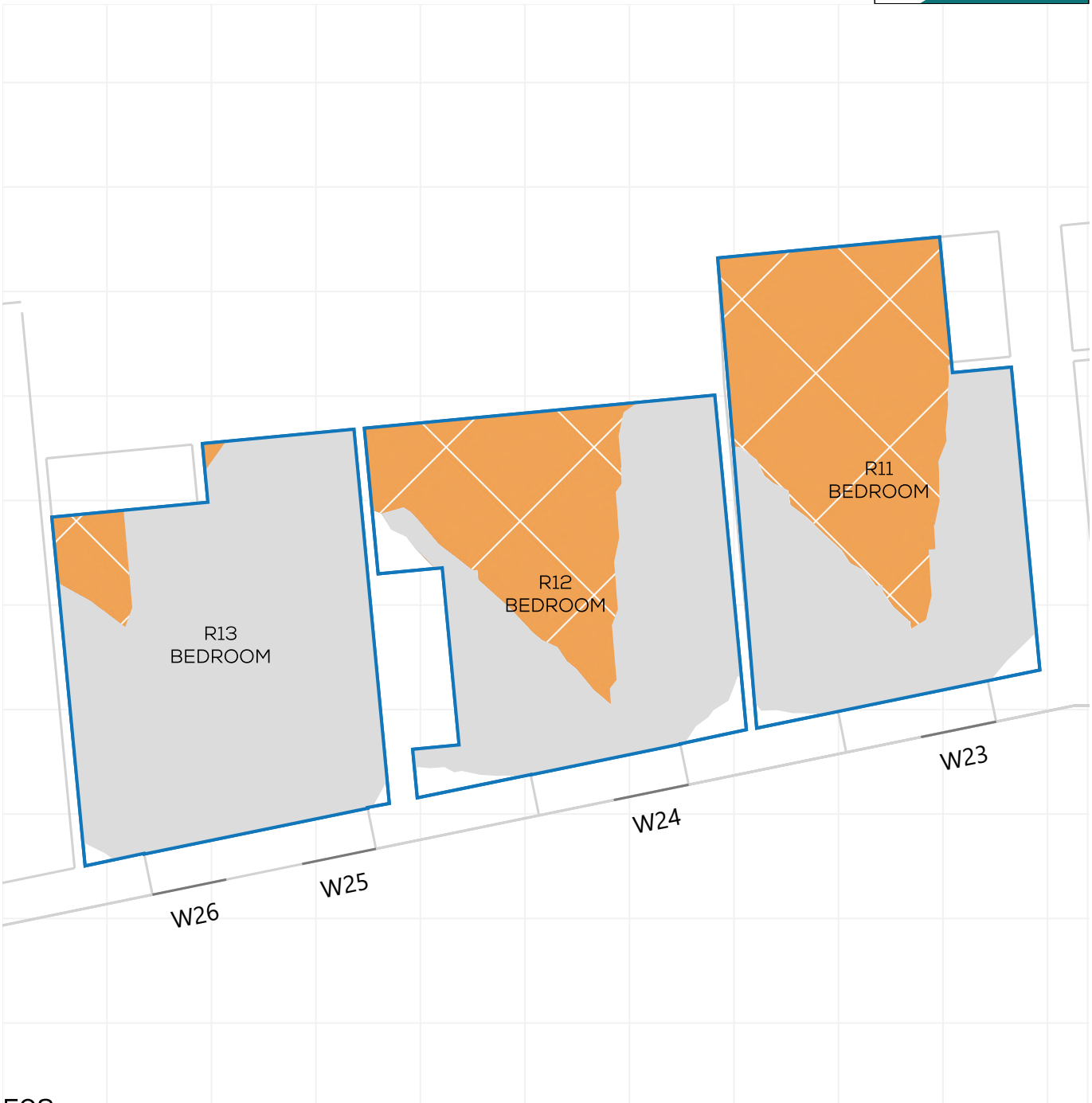
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F03	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F03	R7	RESIDENTIAL	LKD	39.4	100	99.5	0.2	0.5
F03	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.7	2.5	24.3
F03	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.1	4.0	44.6
F03	R10	RESIDENTIAL	BEDROOM	11.2	97.5	50.8	5.2	47.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD220

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





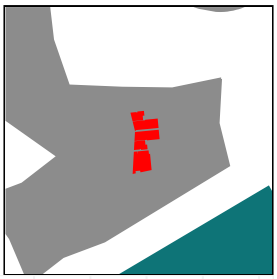
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F03	R11	RESIDENTIAL	BEDROOM	11.1	98.7	46.6	5.8	52.8
F03	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.1	4.1	41.3
F03	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.3	0.6	6.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD221

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F04	R1	RESIDENTIAL	LKD	39.1	99.1	98.9	0.1	0.2
F04	R2	RESIDENTIAL	BEDROOM	11.9	45.8	45.8	0.0	0
F04	R3	RESIDENTIAL	LKD	25.0	46.8	46.8	0.0	0
F04	R4	RESIDENTIAL	LKD	25.1	34.2	34.2	0.0	0
F04	R5	RESIDENTIAL	BEDROOM	11.9	74.1	73.1	0.1	1.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD222

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





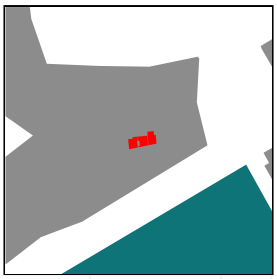
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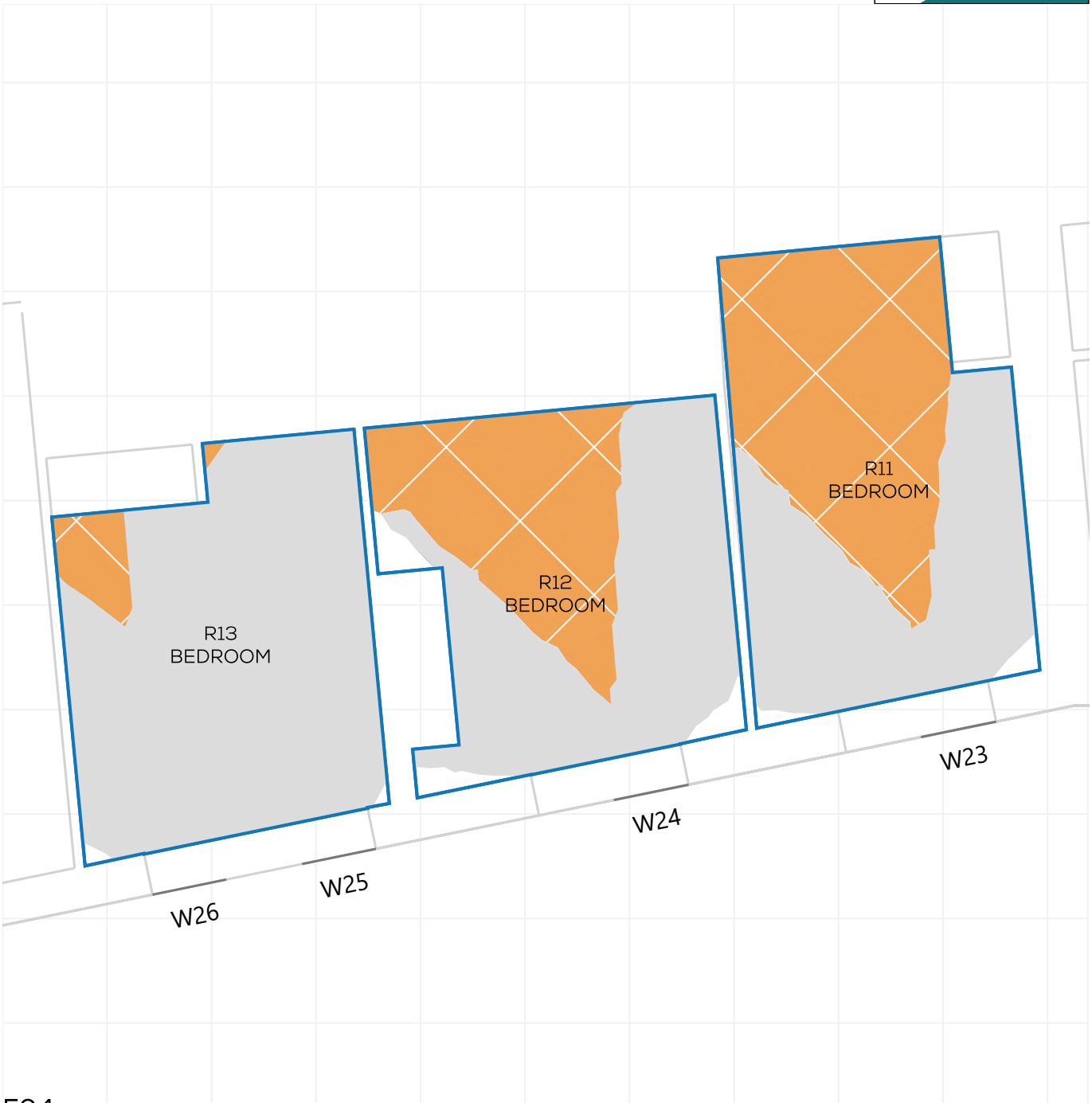
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F04	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F04	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F04	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.7	2.5	24.4
F04	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53	4.1	44.7
F04	R10	RESIDENTIAL	BEDROOM	11.2	97.5	50.8	5.2	47.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD223

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





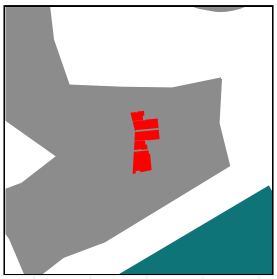
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F04	R11	RESIDENTIAL	BEDROOM	11.1	98.7	46.5	5.8	52.9
F04	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56	4.1	41.4
F04	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.4	0.6	6.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD224

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F05	R1	RESIDENTIAL	LKD	39.1	99.1	98.9	0.1	0.2
F05	R2	RESIDENTIAL	BEDROOM	11.9	47	47	0.0	0
F05	R3	RESIDENTIAL	LKD	25.0	47.3	47.3	0.0	0
F05	R4	RESIDENTIAL	LKD	25.1	35	35	0.0	0
F05	R5	RESIDENTIAL	BEDROOM	11.9	75.1	74.1	0.1	1.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD225

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





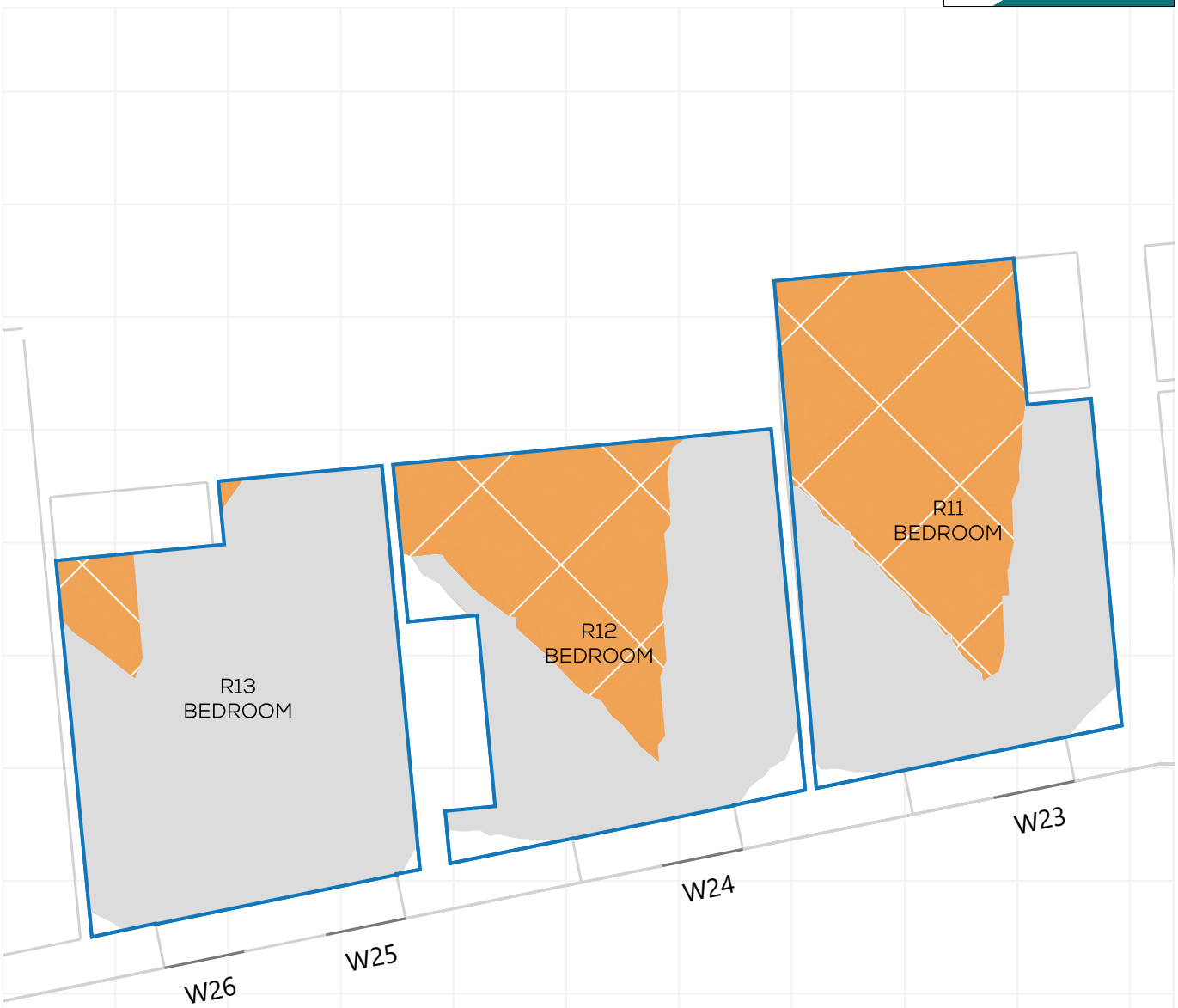
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F05	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F05	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F05	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.4	2.5	24.6
F05	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53	4.0	44.6
F05	R10	RESIDENTIAL	BEDROOM	11.2	97.5	50.8	5.3	47.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD226

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



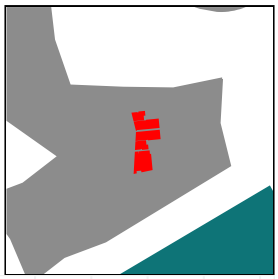
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F05	R11	RESIDENTIAL	BEDROOM	11.1	98.7	46.6	5.8	52.8
F05	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56	4.1	41.4
F05	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.5	0.6	6.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD227

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F06	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F06	R2	RESIDENTIAL	BEDROOM	11.9	47.5	47.5	0.0	0
F06	R3	RESIDENTIAL	LKD	25.0	47.6	47.6	0.0	0
F06	R4	RESIDENTIAL	LKD	25.1	35.7	35.7	0.0	0
F06	R5	RESIDENTIAL	BEDROOM	11.9	75.7	74.8	0.1	1.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD228

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





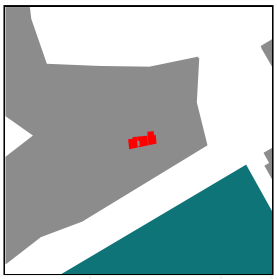
F06

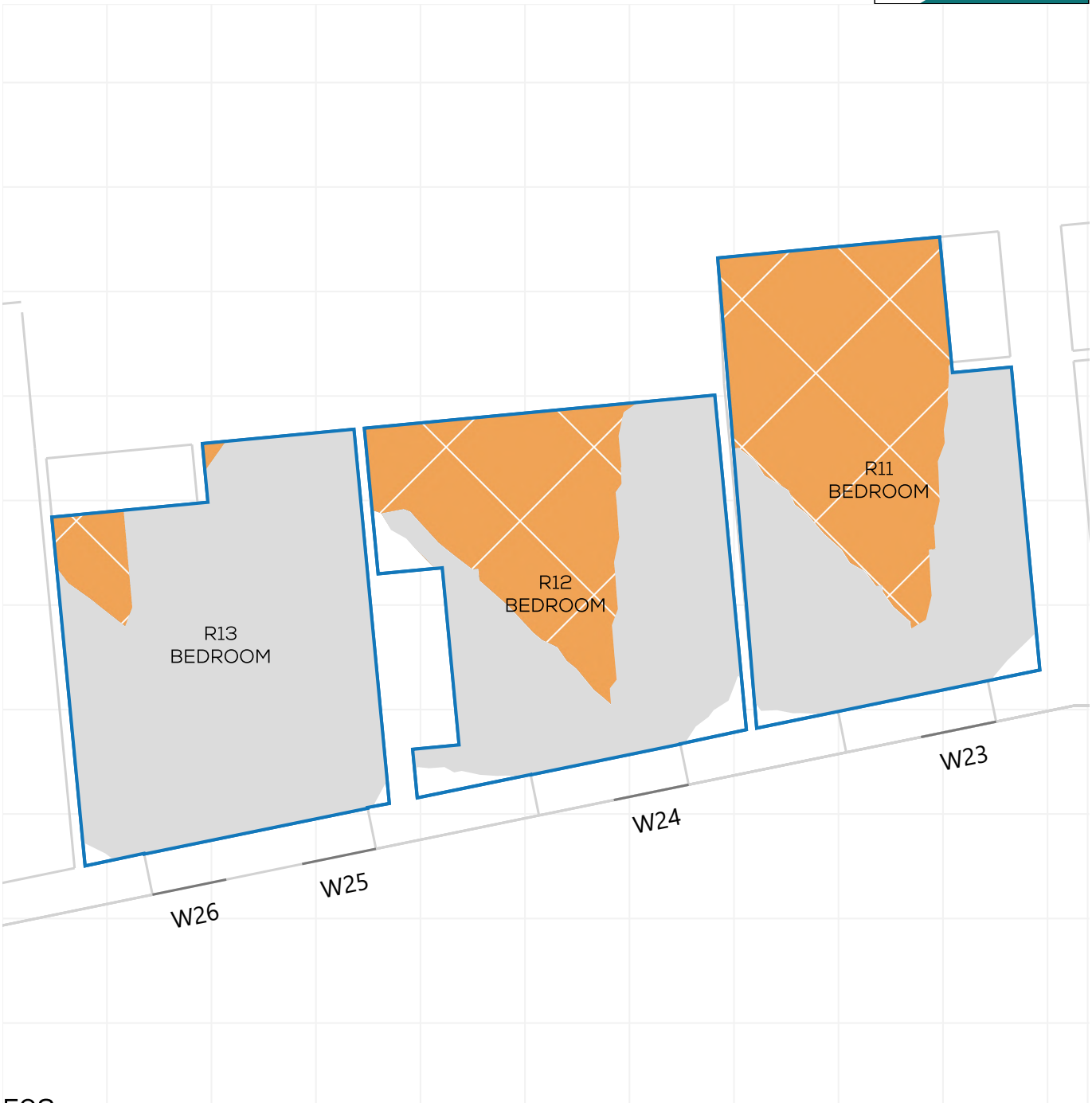
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F06	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F06	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F06	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.5	2.5	24.5
F06	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.1	4.0	44.5
F06	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51	5.2	47.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD229

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





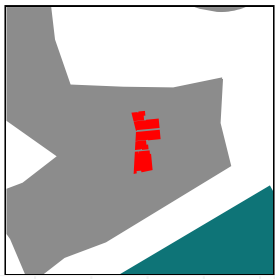
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F06	R11	RESIDENTIAL	BEDROOM	11.1	98.7	46.7	5.8	52.7
F06	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.1	4.1	41.3
F06	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.5	0.6	6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD230

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F07	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F07	R2	RESIDENTIAL	BEDROOM	11.9	48.6	48.6	0.0	0
F07	R3	RESIDENTIAL	LKD	25.0	48.4	48.4	0.0	0
F07	R4	RESIDENTIAL	LKD	25.1	36.1	36.1	0.0	0
F07	R5	RESIDENTIAL	BEDROOM	11.9	76.3	75.4	0.1	1.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD231

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





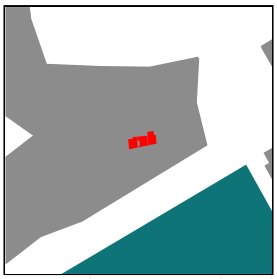
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F07	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F07	R7	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F07	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.5	2.5	24.5
F07	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.3	4.0	44.3
F07	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.2	5.2	47.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD232

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





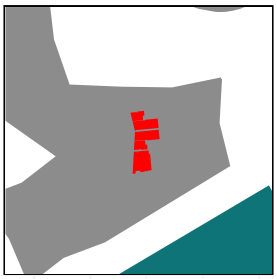
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F07	R11	RESIDENTIAL	BEDROOM	11.1	98.7	46.9	5.8	52.5
F07	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.1	4.1	41.2
F07	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.5	0.6	6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD233

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F08	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F08	R2	RESIDENTIAL	BEDROOM	11.9	38.7	38.7	0.0	0
F08	R3	RESIDENTIAL	LKD	25.0	33.9	33.9	0.0	0
F08	R4	RESIDENTIAL	LKD	25.1	26.1	26.1	0.0	0
F08	R5	RESIDENTIAL	BEDROOM	11.9	77.4	76.5	0.1	1.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD234

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





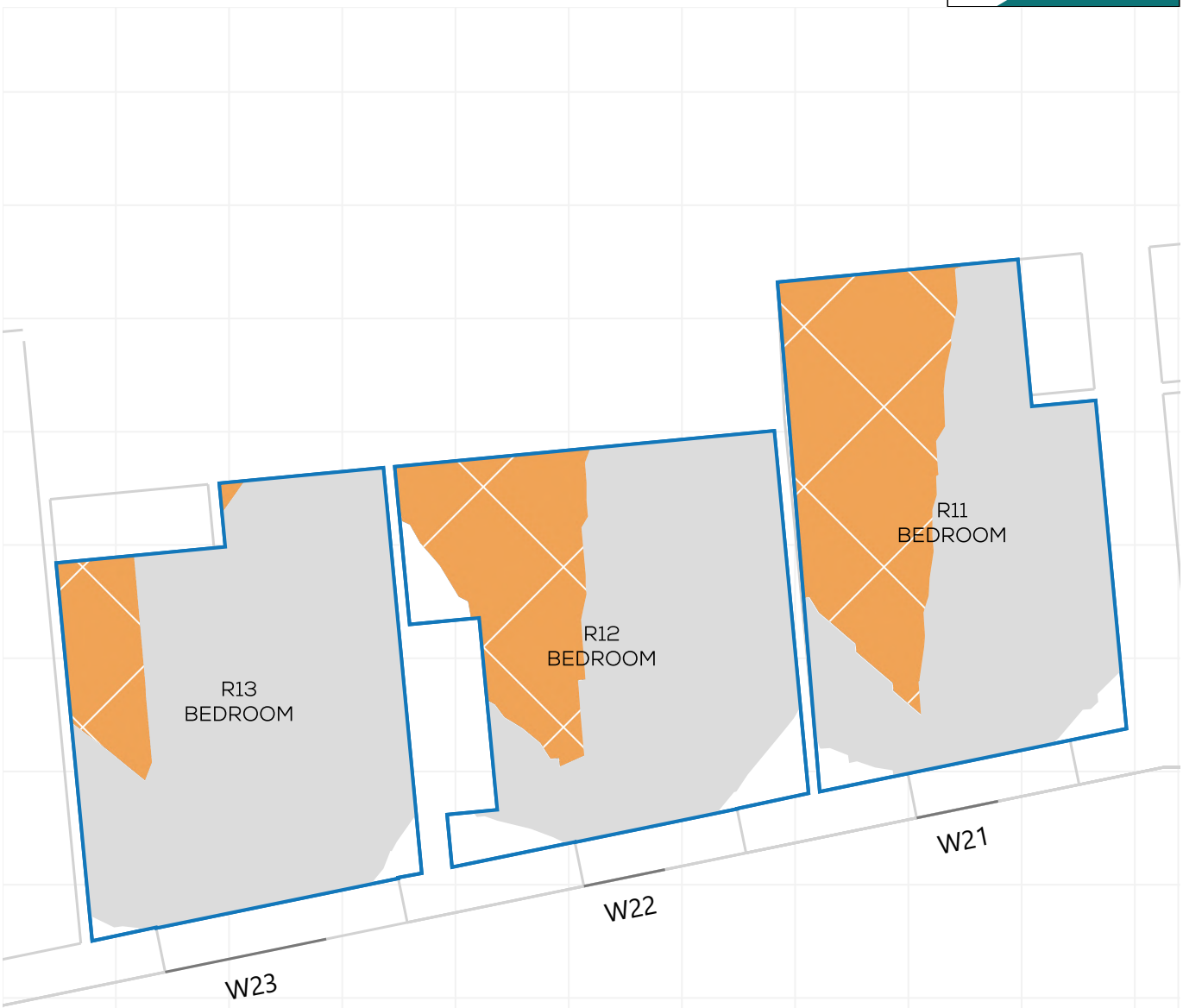
F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F08	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F08	R7	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F08	R8	RESIDENTIAL	BEDROOM	10.3	98.7	86.9	1.2	12
F08	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	3.0	33.4
F08	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.2	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD235

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



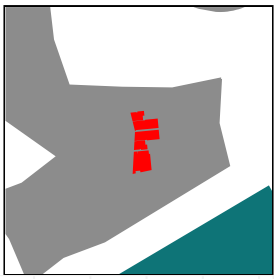
F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F08	R11	RESIDENTIAL	BEDROOM	11.1	97.2	57.9	4.4	40.4
F08	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63	2.9	31.1
F08	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD236

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F09	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F09	R2	RESIDENTIAL	BEDROOM	11.9	50.3	50.3	0.0	0
F09	R3	RESIDENTIAL	LKD	25.0	49.3	49.3	0.0	0
F09	R4	RESIDENTIAL	LKD	25.1	34.1	34.1	0.0	0
F09	R5	RESIDENTIAL	BEDROOM	11.9	78.7	77.7	0.1	1.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD237

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





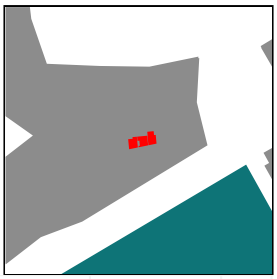
F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F09	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F09	R7	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F09	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.8	2.4	24.2
F09	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.7	4.0	43.9
F09	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.3	5.2	47.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD238

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





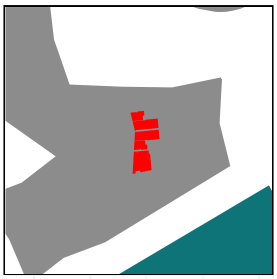
F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F09	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47.1	5.7	52.3
F09	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.3	4.1	41.1
F09	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.6	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD239

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F10	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F10	R2	RESIDENTIAL	BEDROOM	11.9	41.6	41.6	0.0	0
F10	R3	RESIDENTIAL	LKD	25.0	34.9	34.9	0.0	0
F10	R4	RESIDENTIAL	LKD	25.1	27.2	27.2	0.0	0
F10	R5	RESIDENTIAL	BEDROOM	11.9	80.1	79.2	0.1	1.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD240

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





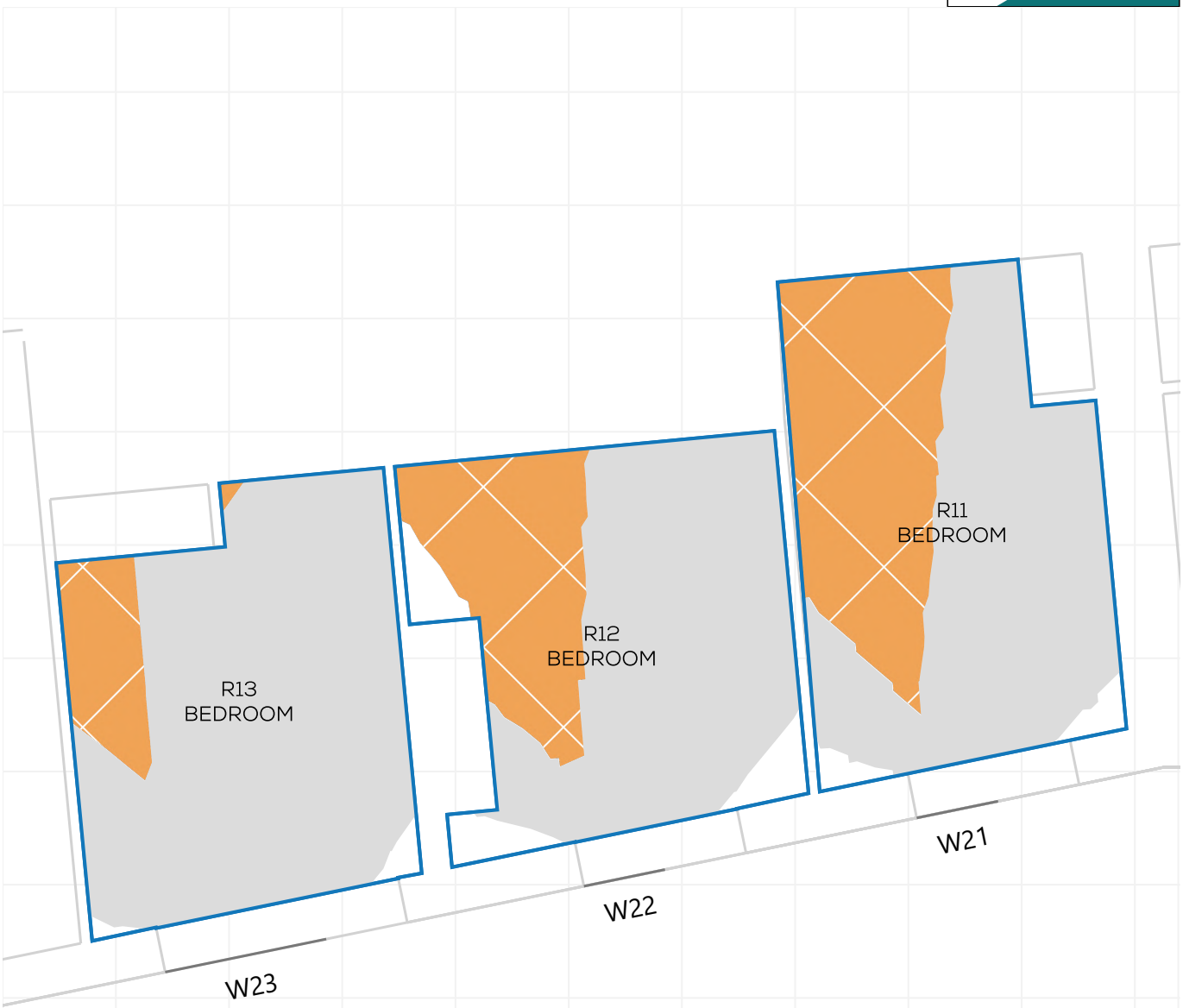
F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F10	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F10	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F10	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.5	1.2	11.4
F10	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	2.9	33.4
F10	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.2	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD241

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



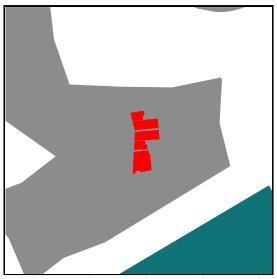
F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F10	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.4	4.3	39.9
F10	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63	2.9	31.1
F10	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD242

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F11

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F11	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F11	R2	RESIDENTIAL	BEDROOM	11.9	53.8	53.8	0.0	0
F11	R3	RESIDENTIAL	LKD	25.0	51.2	51.2	0.0	0
F11	R4	RESIDENTIAL	LKD	25.1	36.4	36.4	0.0	0
F11	R5	RESIDENTIAL	BEDROOM	11.9	81.9	81.1	0.1	1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD243

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





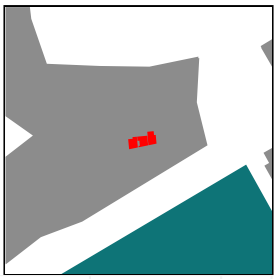
F11

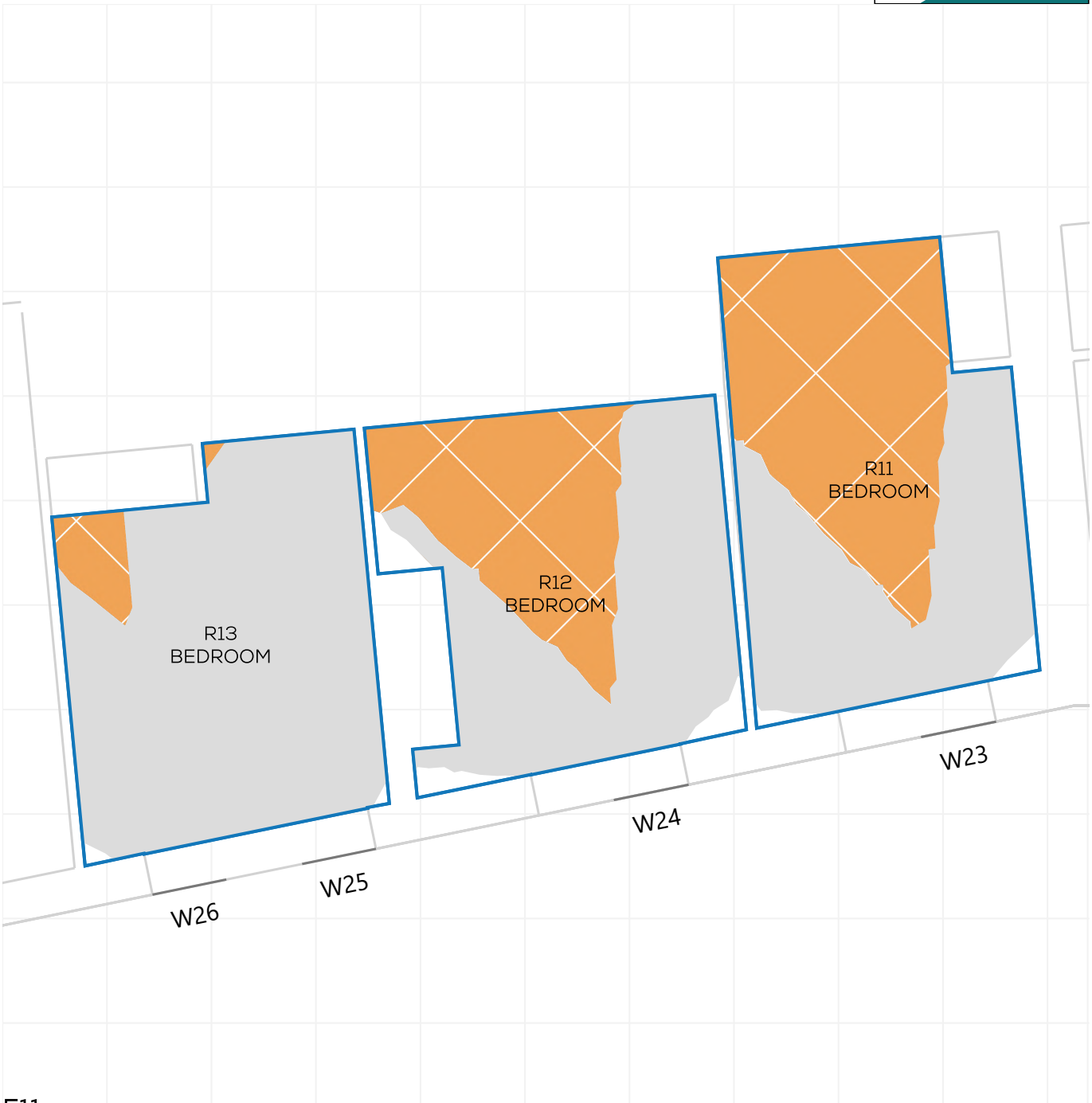
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F11	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F11	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F11	R8	RESIDENTIAL	BEDROOM	10.3	98.7	75.4	2.4	23.6
F11	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.8	4.0	43.9
F11	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.3	5.2	47.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD244

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





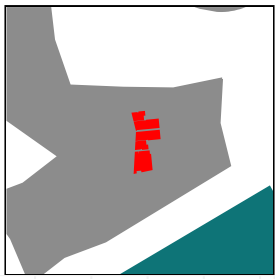
F11

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F11	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47.1	5.7	52.3
F11	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.3	4.0	41
F11	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.6	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD245

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F12	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F12	R2	RESIDENTIAL	BEDROOM	11.9	45.2	45.2	0.0	0
F12	R3	RESIDENTIAL	LKD	25.0	36.2	36.2	0.0	0
F12	R4	RESIDENTIAL	LKD	25.1	28.3	28.3	0.0	0
F12	R5	RESIDENTIAL	BEDROOM	11.9	84.8	83.9	0.1	1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD246

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





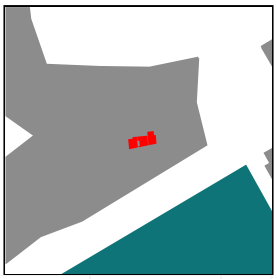
F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F12	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F12	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F12	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.7	1.1	11.1
F12	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	3.0	33.4
F12	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.2	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD247

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





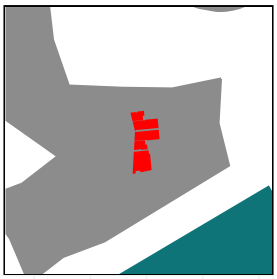
F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F12	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.3	4.3	40
F12	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63	2.9	31.1
F12	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD248

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F13	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F13	R2	RESIDENTIAL	BEDROOM	11.9	57.9	57.9	0.0	0
F13	R3	RESIDENTIAL	LKD	25.0	53.9	53.9	0.0	0
F13	R4	RESIDENTIAL	LKD	25.1	38.9	38.9	0.0	0
F13	R5	RESIDENTIAL	BEDROOM	11.9	87.5	86.6	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD249

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





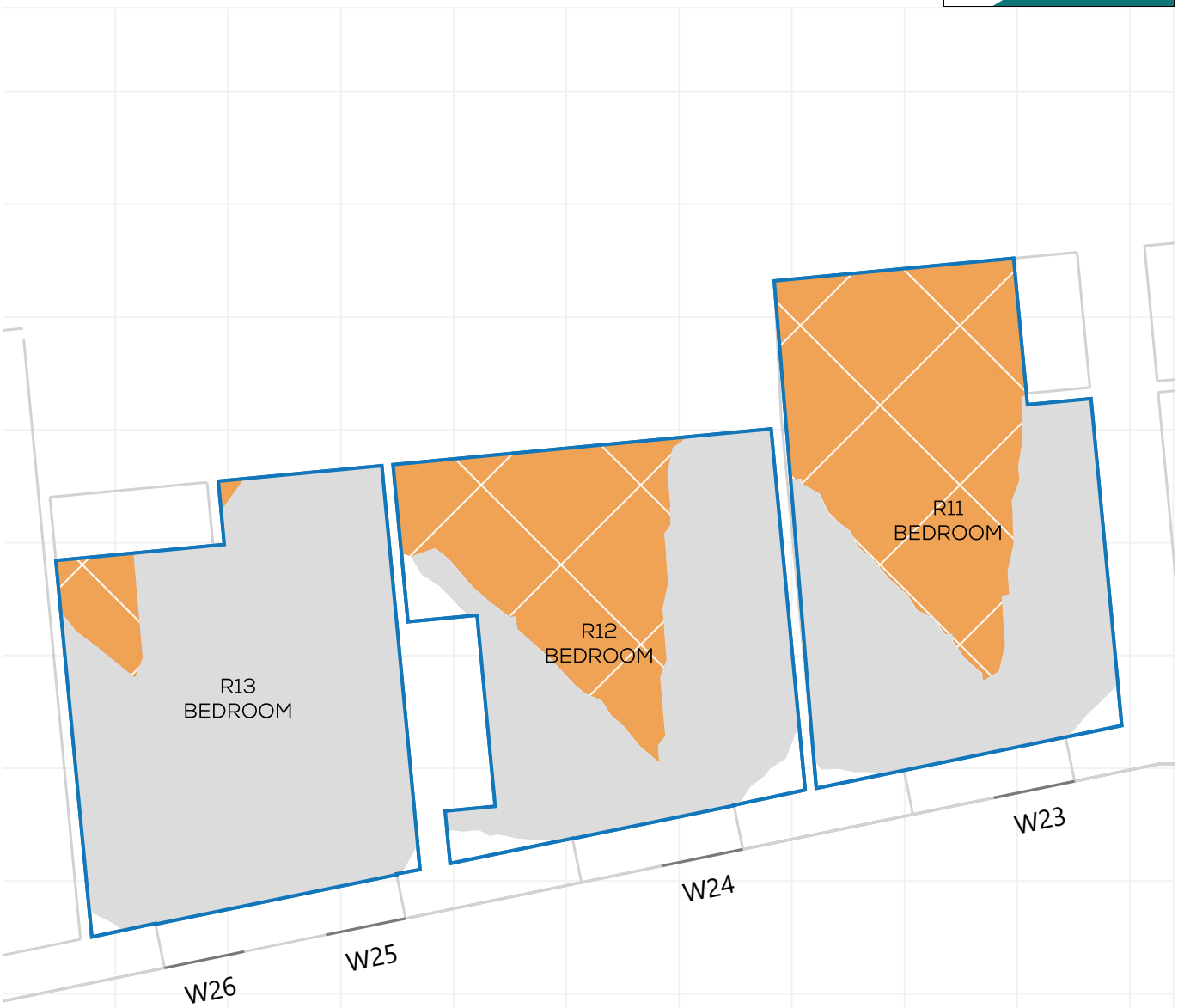
F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F13	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F13	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F13	R8	RESIDENTIAL	BEDROOM	10.3	98.7	75.3	2.4	23.7
F13	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.6	4.0	44
F13	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.2	5.2	47.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD250

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



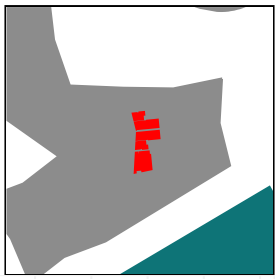
F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F13	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47	5.8	52.3
F13	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.3	4.1	41.1
F13	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.6	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD251

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F14	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F14	R2	RESIDENTIAL	BEDROOM	11.9	51.2	51.2	0.0	0
F14	R3	RESIDENTIAL	LKD	25.0	37.5	37.5	0.0	0
F14	R4	RESIDENTIAL	LKD	25.1	30.1	30.1	0.0	0
F14	R5	RESIDENTIAL	BEDROOM	11.9	90.2	89.4	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD252

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





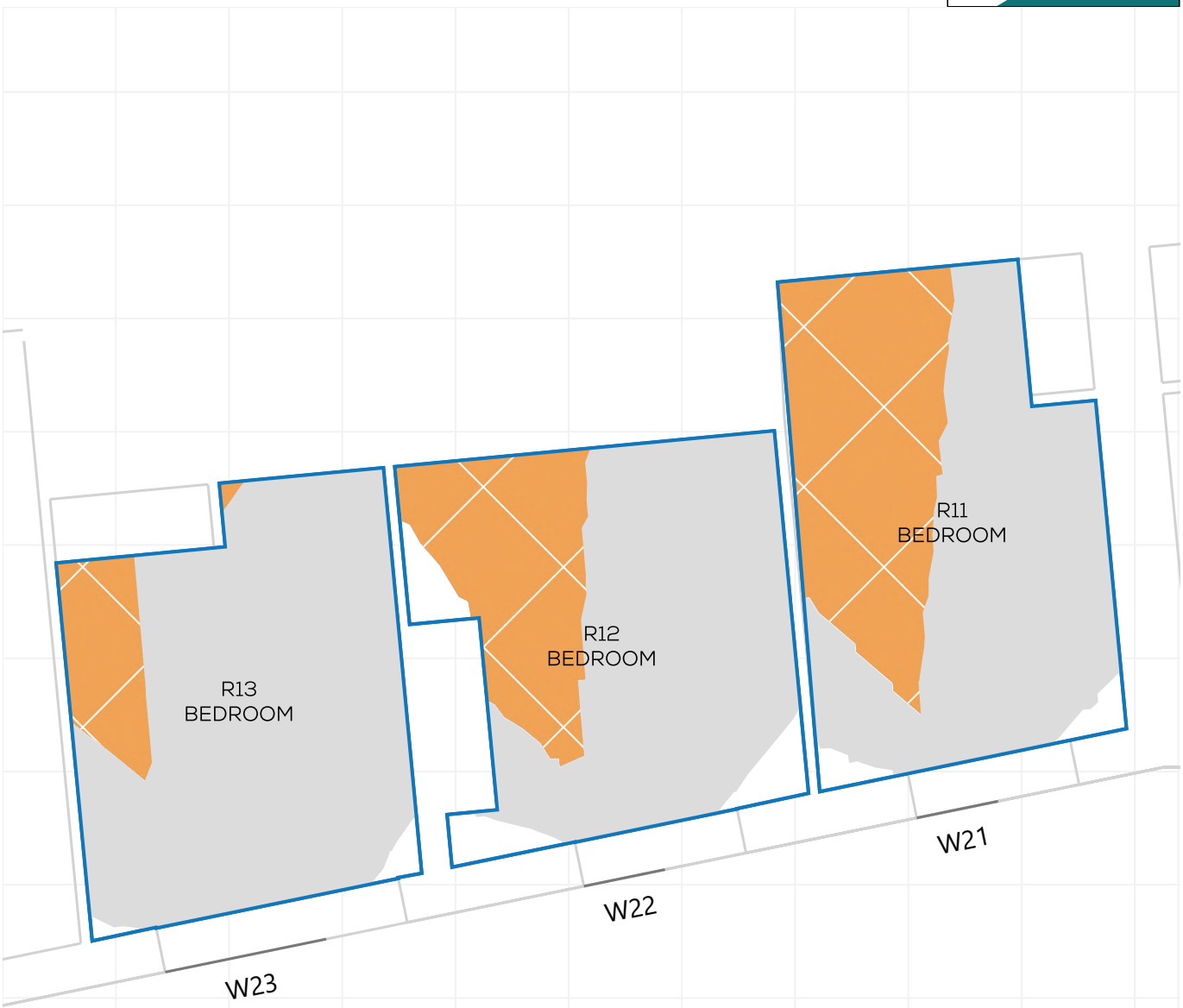
F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F14	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F14	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F14	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.3	1.2	11.6
F14	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	3.0	33.5
F14	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.2	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD253

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



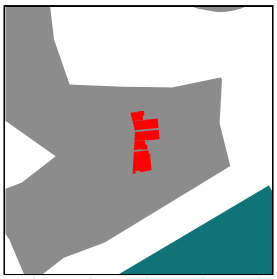
F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F14	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58	4.4	40.3
F14	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63	2.9	31.2
F14	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD254

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F15	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F15	R2	RESIDENTIAL	BEDROOM	11.9	61.3	61.3	0.0	0
F15	R3	RESIDENTIAL	LKD	25.0	57.9	57.9	0.0	0
F15	R4	RESIDENTIAL	LKD	25.1	42.8	42.8	0.0	0
F15	R5	RESIDENTIAL	BEDROOM	11.9	90.5	89.7	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD255

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





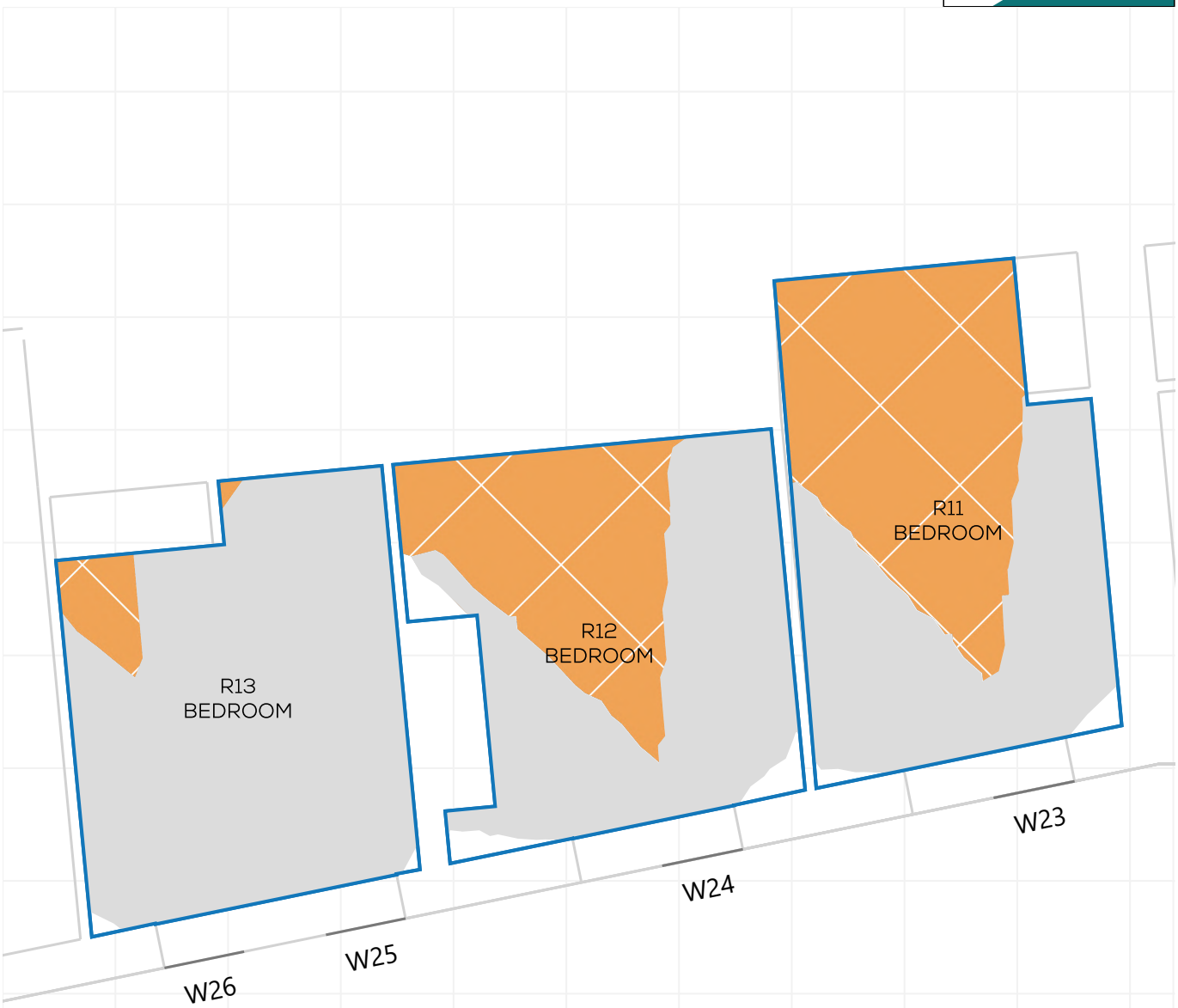
F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F15	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F15	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F15	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.9	2.4	24.1
F15	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.3	4.0	44.4
F15	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.1	5.2	47.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD256

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



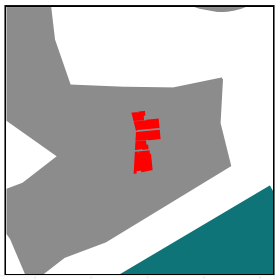
F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F15	R11	RESIDENTIAL	BEDROOM	11.1	98.7	46.9	5.8	52.5
F15	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.2	4.1	41.2
F15	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.6	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD257

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F16	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F16	R2	RESIDENTIAL	BEDROOM	11.9	57	57	0.0	0
F16	R3	RESIDENTIAL	LKD	25.0	40.4	40.4	0.0	0
F16	R4	RESIDENTIAL	LKD	25.1	32.9	32.9	0.0	0
F16	R5	RESIDENTIAL	BEDROOM	11.9	90.9	90.1	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD258

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





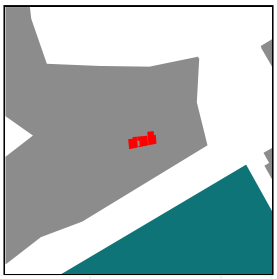
F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F16	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F16	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F16	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87	1.2	11.9
F16	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	3.0	33.4
F16	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.2	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD259

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





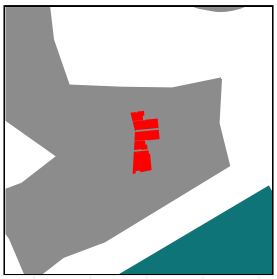
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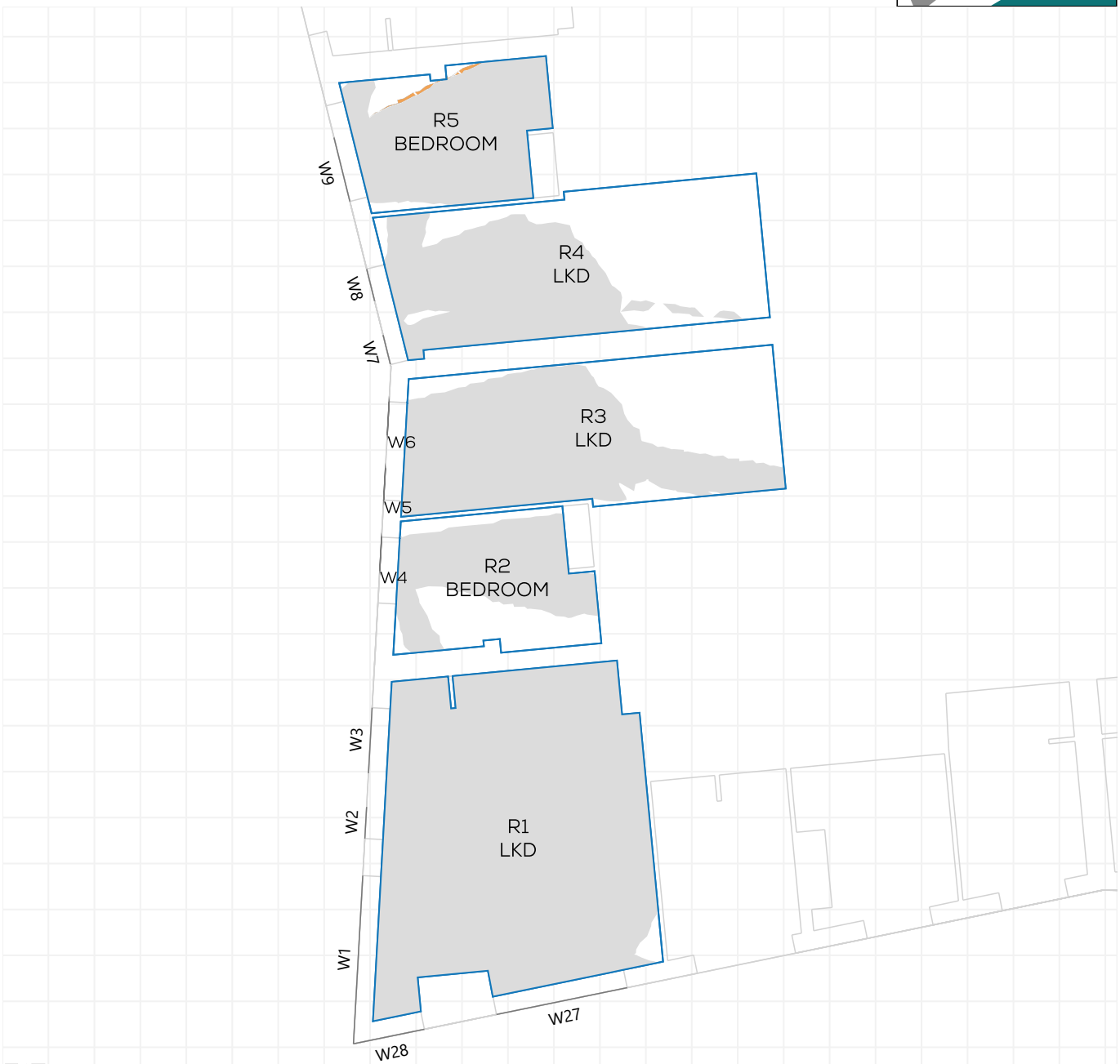
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F16	R11	RESIDENTIAL	BEDROOM	11.1	97.2	57.8	4.4	40.5
F16	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63	2.9	31.1
F16	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD260

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F17	R1	RESIDENTIAL	LKD	39.1	99.1	99.1	0.0	0
F17	R2	RESIDENTIAL	BEDROOM	11.9	62.2	62.2	0.0	0
F17	R3	RESIDENTIAL	LKD	25.0	63.9	63.9	0.0	0
F17	R4	RESIDENTIAL	LKD	25.1	48.7	48.7	0.0	0
F17	R5	RESIDENTIAL	BEDROOM	11.9	91.3	90.5	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD261

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





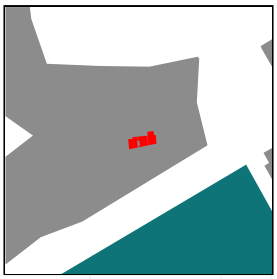
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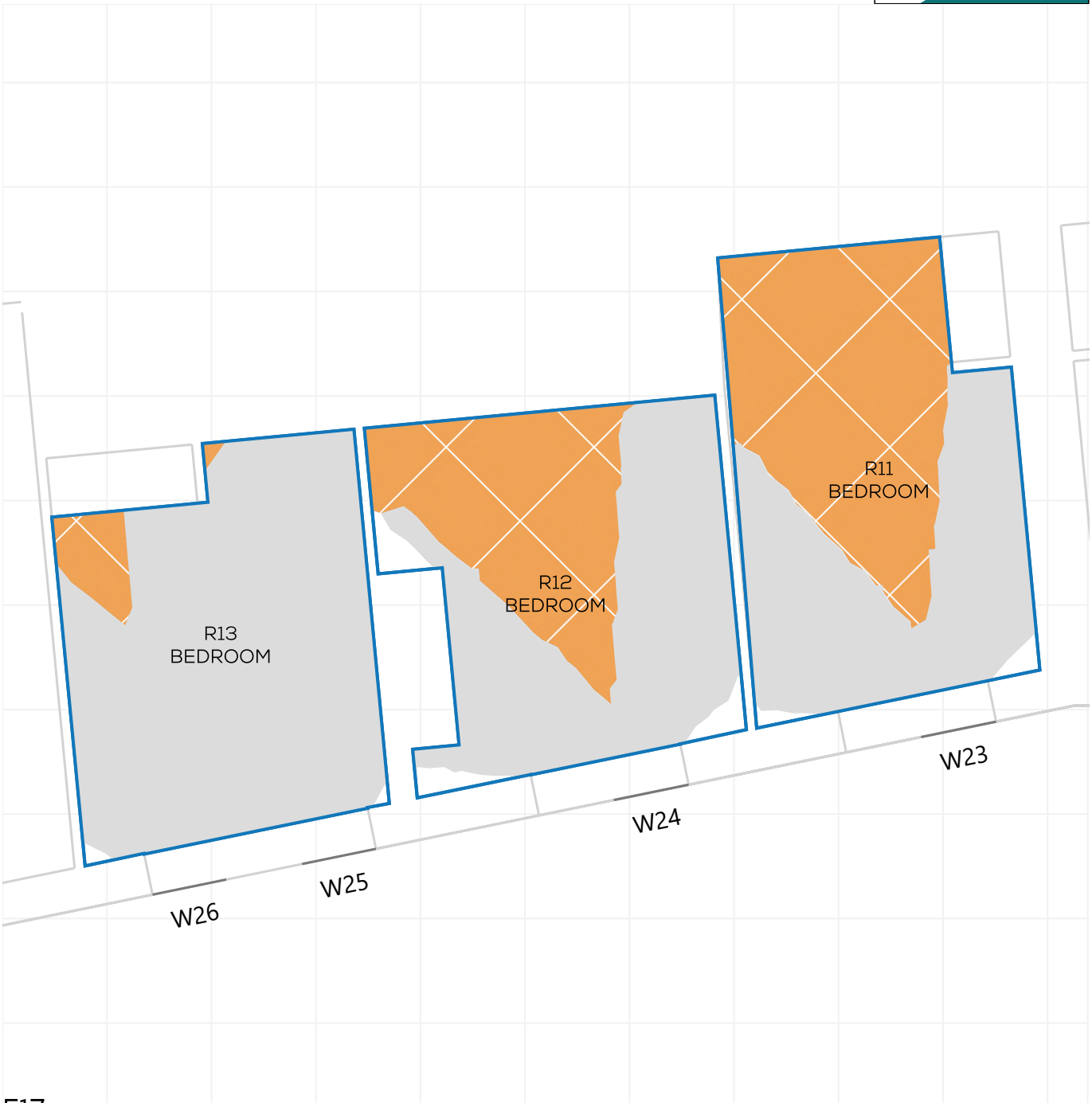
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F17	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F17	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F17	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.8	2.4	24.2
F17	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.4	4.0	44.3
F17	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.3	5.2	47.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD262

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





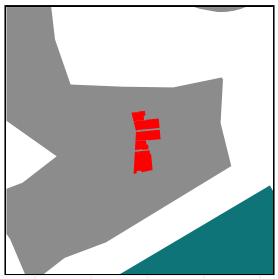
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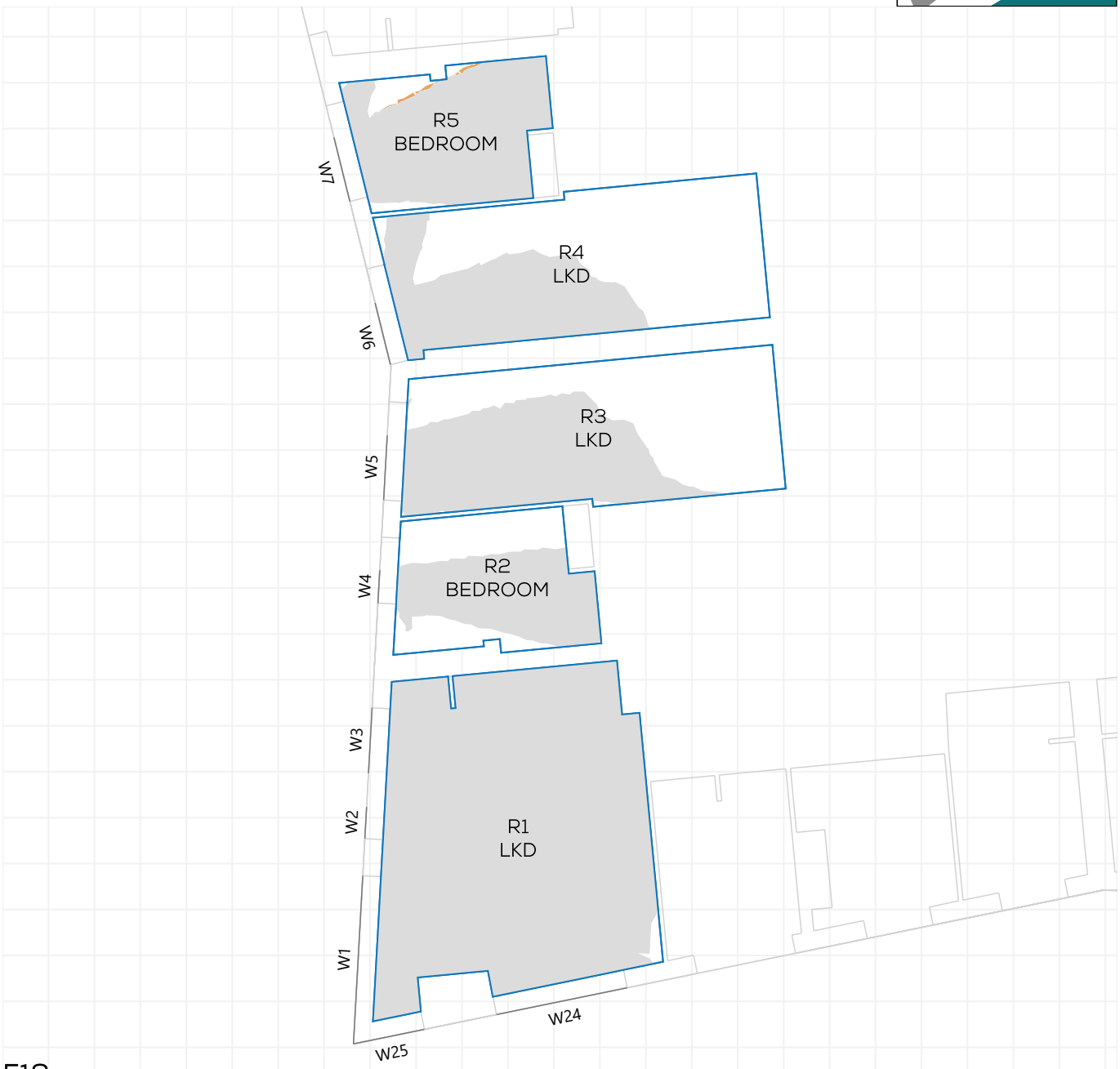
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F17	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47	5.8	52.3
F17	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.3	4.1	41.1
F17	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.6	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD263

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F18	R1	RESIDENTIAL	LKD	39.1	99.4	99.4	0.0	0
F18	R2	RESIDENTIAL	BEDROOM	11.9	58.6	58.6	0.0	0
F18	R3	RESIDENTIAL	LKD	25.0	46.6	46.6	0.0	0
F18	R4	RESIDENTIAL	LKD	25.1	37.9	37.9	0.0	0
F18	R5	RESIDENTIAL	BEDROOM	11.9	91.3	90.6	0.1	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD264

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F18	R6	RESIDENTIAL	LKD	39.3	100	99.9	0.0	0.1
F18	R7	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F18	R8	RESIDENTIAL	BEDROOM	10.3	98.7	86.9	1.2	12
F18	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	2.9	33.4
F18	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.3	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD265

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



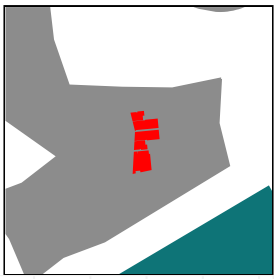
F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F18	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58	4.4	40.3
F18	R12	RESIDENTIAL	BEDROOM	10.3	91.5	62.8	3.0	31.3
F18	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD266

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F19	R1	RESIDENTIAL	LKD	39.1	99.9	99.9	0.0	0
F19	R2	RESIDENTIAL	BEDROOM	11.9	63.1	63.1	0.0	0
F19	R3	RESIDENTIAL	LKD	25.0	70.7	70.7	0.0	0
F19	R4	RESIDENTIAL	LKD	25.1	57.2	57.2	0.0	0
F19	R5	RESIDENTIAL	BEDROOM	11.9	91.3	90.5	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD267

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





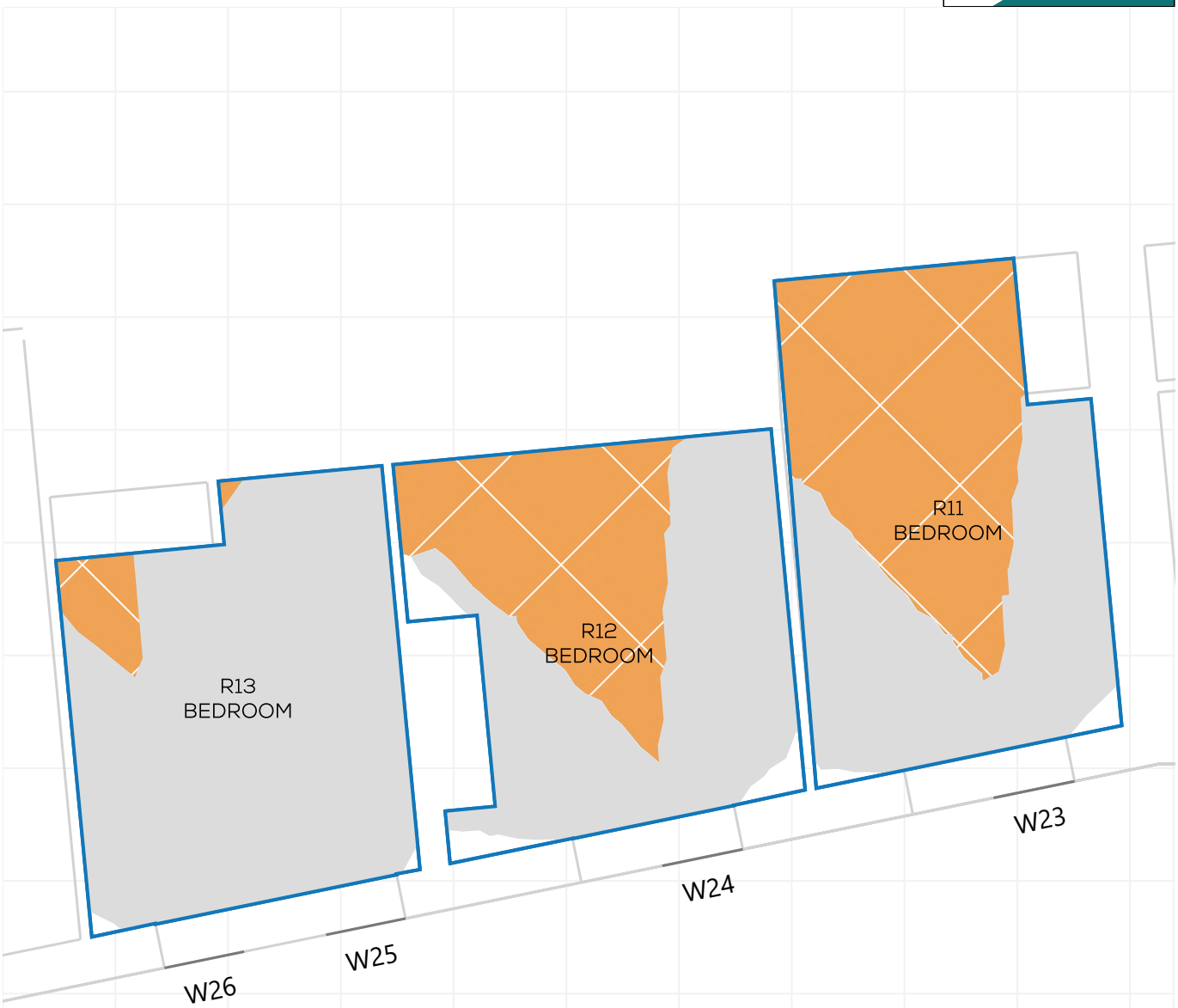
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F19	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F19	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F19	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.9	2.4	24.1
F19	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.8	4.0	43.8
F19	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.3	5.2	47.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD268

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



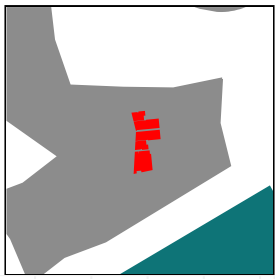
F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F19	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47.1	5.7	52.3
F19	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.4	4.0	40.9
F19	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD269

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F20	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F20	R2	RESIDENTIAL	BEDROOM	11.9	59.1	59.1	0.0	0
F20	R3	RESIDENTIAL	LKD	25.0	54.9	54.9	0.0	0
F20	R4	RESIDENTIAL	LKD	25.1	43.7	43.7	0.0	0
F20	R5	RESIDENTIAL	BEDROOM	11.9	91.4	90.7	0.1	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD270

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





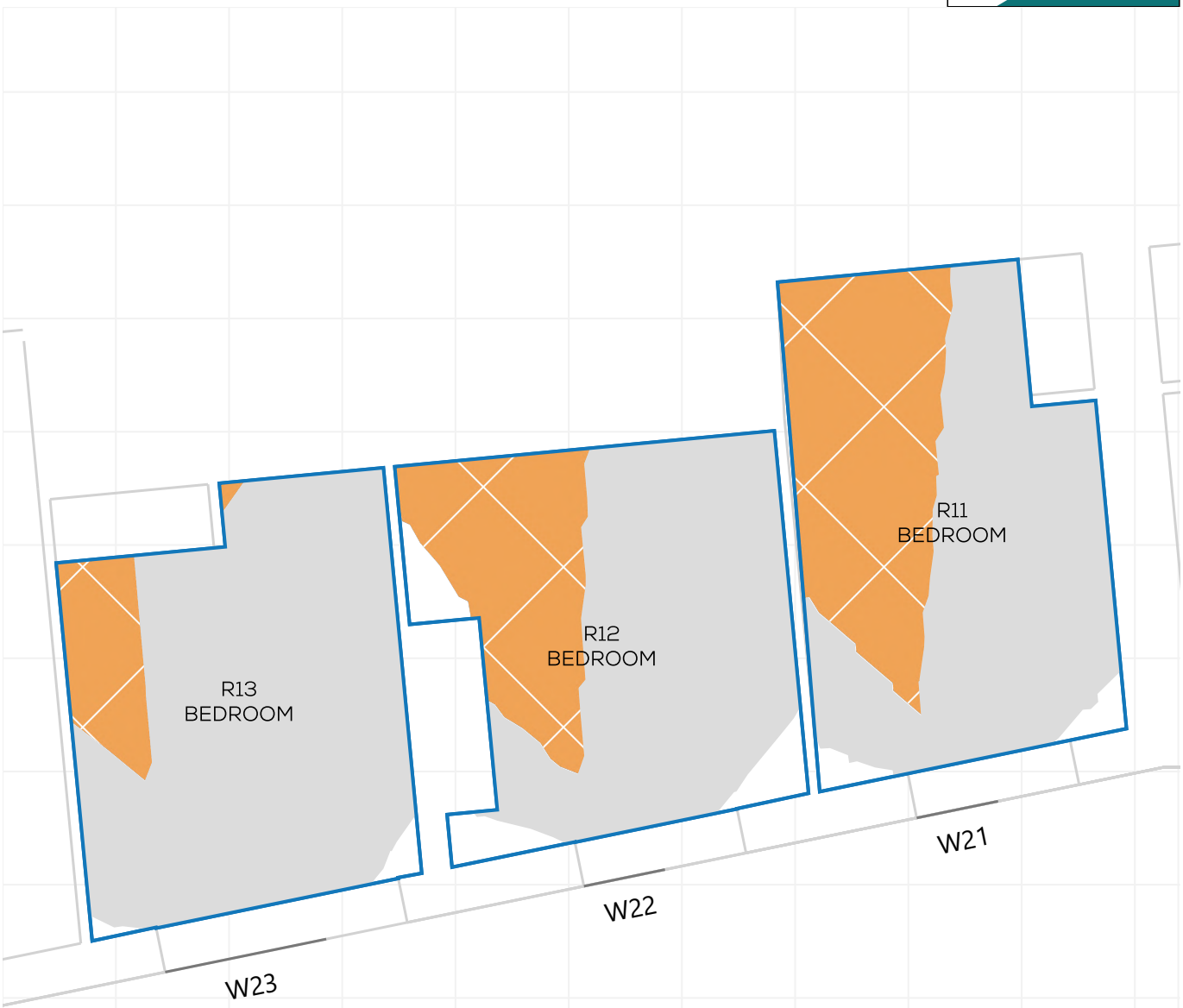
F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F20	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F20	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F20	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.5	1.2	11.4
F20	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	2.9	33.4
F20	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.3	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD271

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



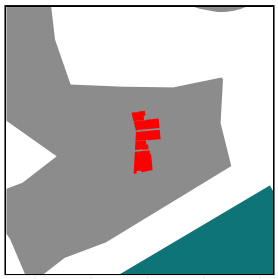
F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F20	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.4	4.3	39.9
F20	R12	RESIDENTIAL	BEDROOM	10.3	91.5	62.9	3.0	31.3
F20	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD272

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F21	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F21	R2	RESIDENTIAL	BEDROOM	11.9	63.7	63.7	0.0	0
F21	R3	RESIDENTIAL	LKD	25.0	78.4	78.4	0.0	0
F21	R4	RESIDENTIAL	LKD	25.1	64.5	64.5	0.0	0
F21	R5	RESIDENTIAL	BEDROOM	11.9	91.4	90.7	0.1	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD273

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





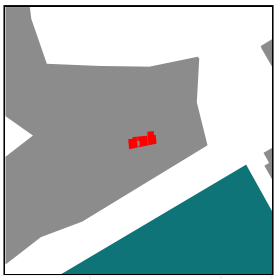
F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F21	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F21	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F21	R8	RESIDENTIAL	BEDROOM	10.3	98.7	75.5	2.4	23.5
F21	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.8	4.0	43.8
F21	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.3	5.2	47.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD274

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





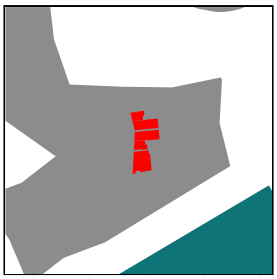
F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F21	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47.1	5.7	52.3
F21	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.5	4.0	40.9
F21	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD275

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F22

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F22	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F22	R2	RESIDENTIAL	BEDROOM	11.9	59.6	59.6	0.0	0
F22	R3	RESIDENTIAL	LKD	25.0	63.3	63.3	0.0	0
F22	R4	RESIDENTIAL	LKD	25.1	52.9	52.9	0.0	0
F22	R5	RESIDENTIAL	BEDROOM	11.9	91.5	90.9	0.1	0.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD276

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





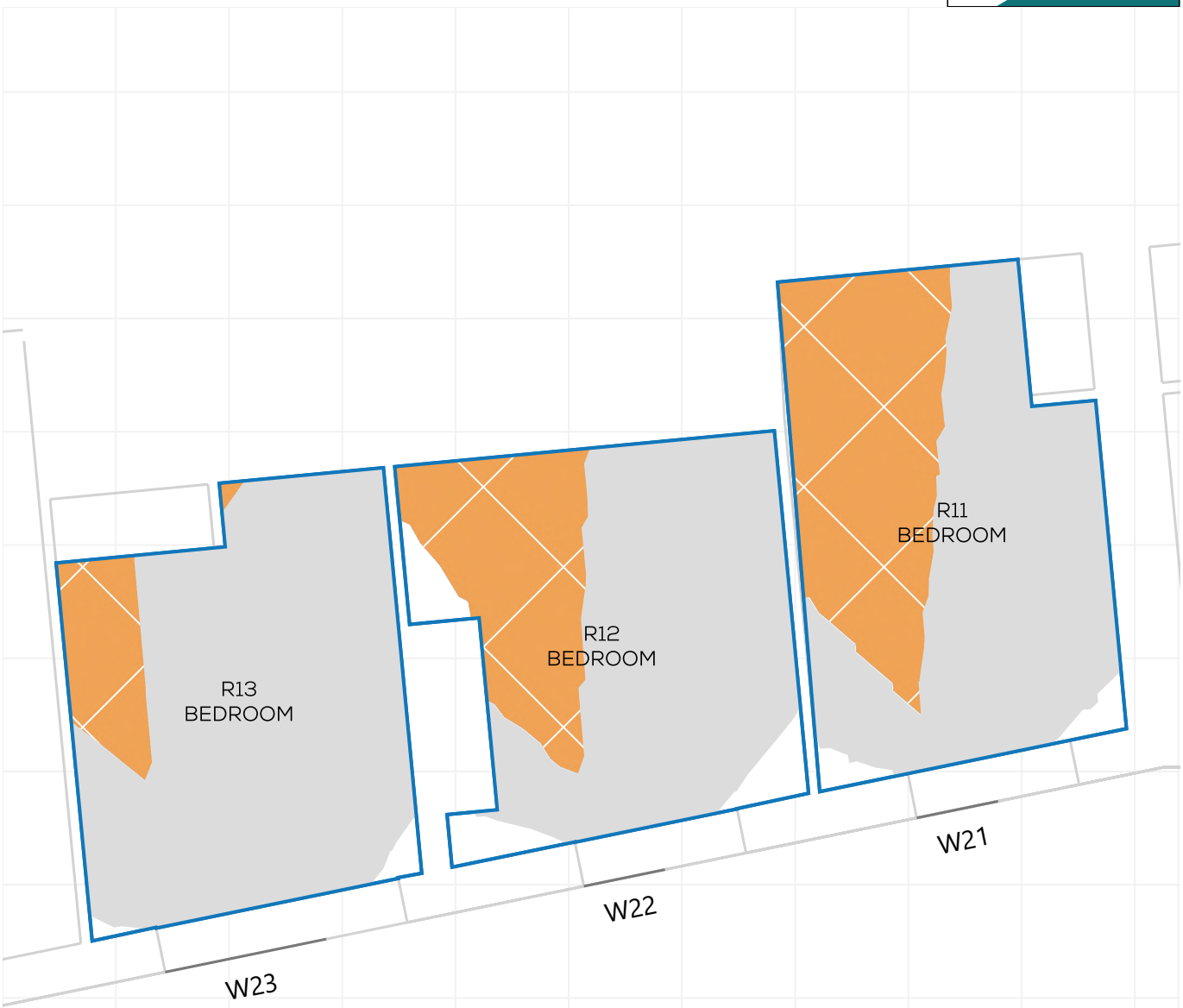
F22

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F22	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F22	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F22	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.7	1.1	11.2
F22	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	2.9	33.4
F22	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.3	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD277

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



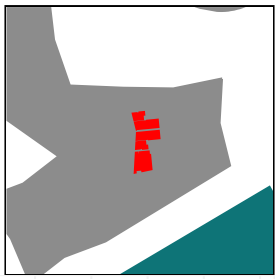
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F22	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.3	4.3	40
F22	R12	RESIDENTIAL	BEDROOM	10.3	91.5	62.8	3.0	31.3
F22	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD278

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F23

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F23	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F23	R2	RESIDENTIAL	BEDROOM	11.9	64.3	64.3	0.0	0
F23	R3	RESIDENTIAL	LKD	25.0	85.4	85.4	0.0	0
F23	R4	RESIDENTIAL	LKD	25.1	69.9	69.9	0.0	0
F23	R5	RESIDENTIAL	BEDROOM	11.9	91.6	90.9	0.1	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD279

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





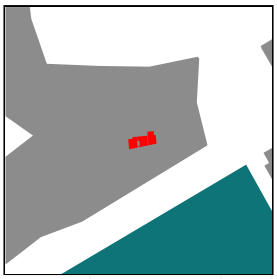
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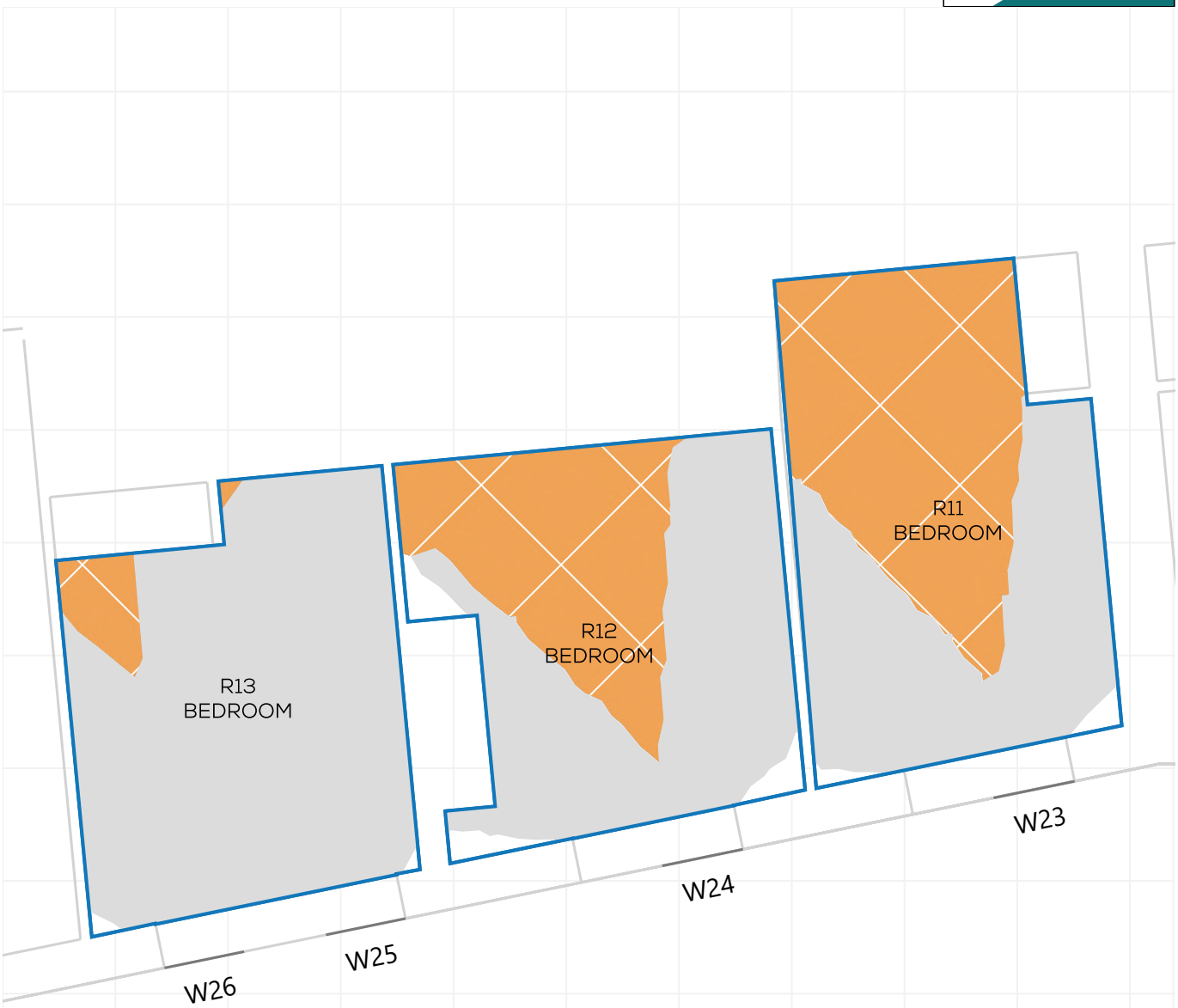
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F23	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F23	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F23	R8	RESIDENTIAL	BEDROOM	10.3	98.7	75.3	2.4	23.7
F23	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.7	4.0	43.9
F23	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.2	5.2	47.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD280

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





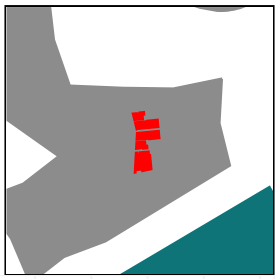
F23

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F23	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47	5.8	52.3
F23	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.4	4.0	40.9
F23	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD281

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F24	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F24	R2	RESIDENTIAL	BEDROOM	11.9	60.4	60.4	0.0	0
F24	R3	RESIDENTIAL	LKD	25.0	67	67	0.0	0
F24	R4	RESIDENTIAL	LKD	25.1	55.7	55.7	0.0	0
F24	R5	RESIDENTIAL	BEDROOM	11.9	91.8	91.2	0.1	0.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD282

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F24	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F24	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F24	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.3	1.2	11.6
F24	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	3.0	33.4
F24	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.3	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD283

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



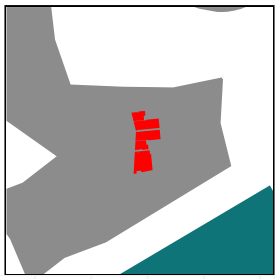
F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F24	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.1	4.4	40.2
F24	R12	RESIDENTIAL	BEDROOM	10.3	91.5	62.8	3.0	31.4
F24	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD284

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F25	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F25	R2	RESIDENTIAL	BEDROOM	11.9	65.2	65.2	0.0	0
F25	R3	RESIDENTIAL	LKD	25.0	87.4	87.4	0.0	0
F25	R4	RESIDENTIAL	LKD	25.1	72.5	72.5	0.0	0
F25	R5	RESIDENTIAL	BEDROOM	11.9	92.2	91.6	0.1	0.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD285

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





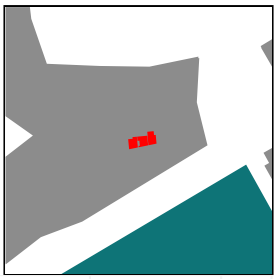
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F25	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F25	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F25	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.9	2.4	24.1
F25	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.4	4.0	44.2
F25	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.2	5.2	47.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD286

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





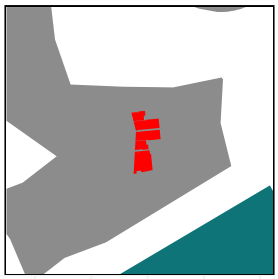
F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F25	R11	RESIDENTIAL	BEDROOM	11.1	98.7	46.9	5.8	52.5
F25	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.3	4.0	41
F25	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD287

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F26	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F26	R2	RESIDENTIAL	BEDROOM	11.9	62	62	0.0	0
F26	R3	RESIDENTIAL	LKD	25.0	68.6	68.6	0.0	0
F26	R4	RESIDENTIAL	LKD	25.1	57.7	57.7	0.0	0
F26	R5	RESIDENTIAL	BEDROOM	11.9	92.7	92.1	0.1	0.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD288

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F26	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F26	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F26	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87	1.2	11.9
F26	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	3.0	33.4
F26	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.3	3.1	29

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD289

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



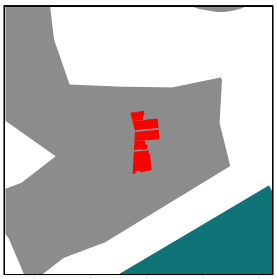
F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F26	R11	RESIDENTIAL	BEDROOM	11.1	97.2	57.9	4.4	40.4
F26	R12	RESIDENTIAL	BEDROOM	10.3	91.5	62.8	3.0	31.3
F26	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD290

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F27

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F27	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F27	R2	RESIDENTIAL	BEDROOM	11.9	66.7	66.7	0.0	0
F27	R3	RESIDENTIAL	LKD	25.0	88.9	88.9	0.0	0
F27	R4	RESIDENTIAL	LKD	25.1	75.3	75.3	0.0	0
F27	R5	RESIDENTIAL	BEDROOM	11.9	93.1	92.5	0.1	0.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD291

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





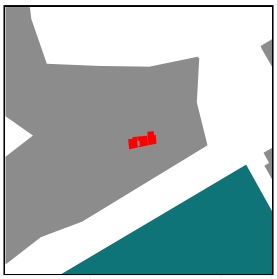
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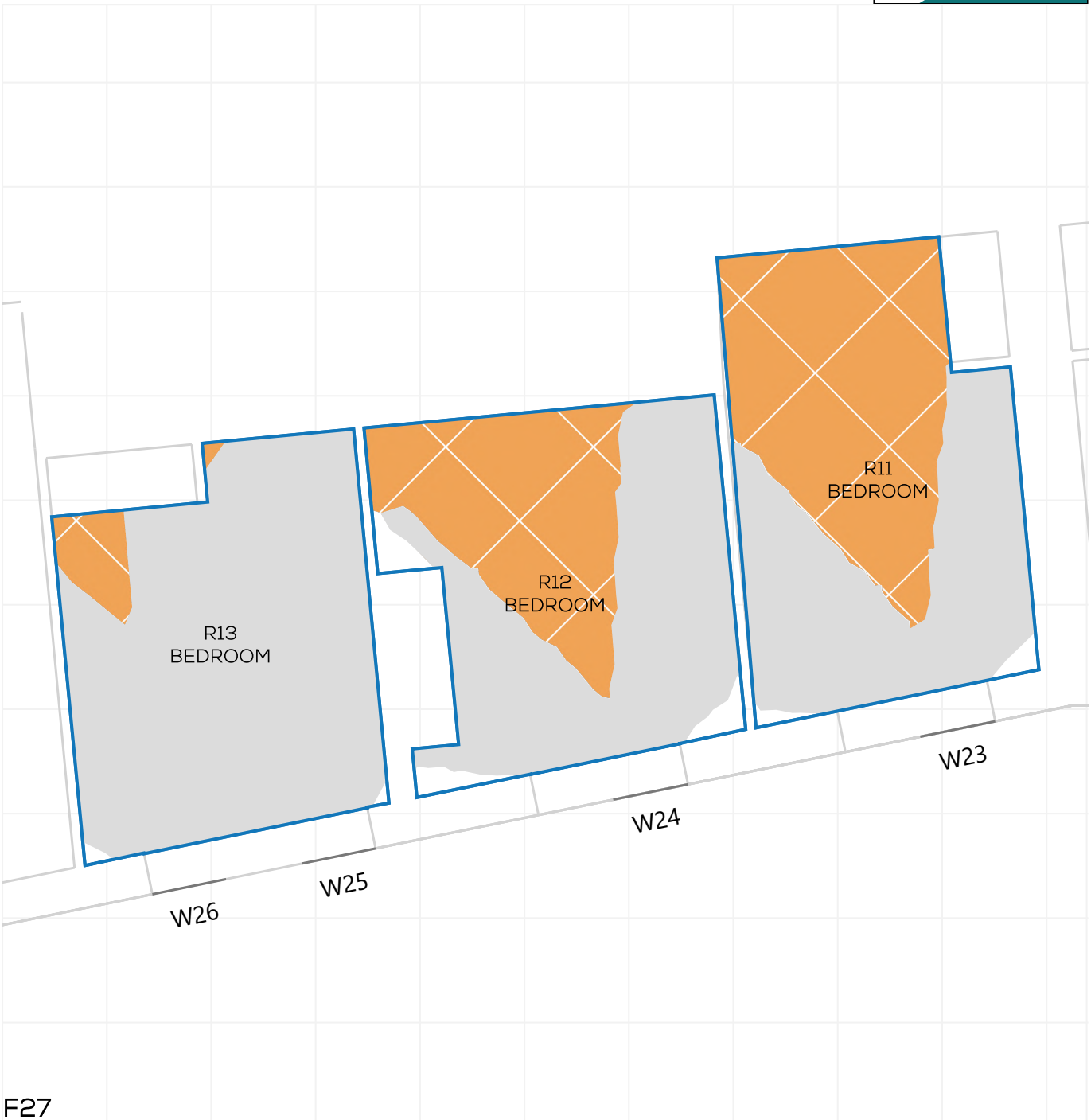
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F27	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F27	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F27	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.8	2.4	24.2
F27	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.5	4.0	44.2
F27	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.4	5.2	47.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD292

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





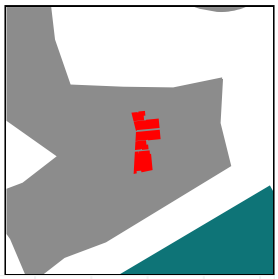
F27

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F27	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47	5.8	52.4
F27	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.4	4.0	40.9
F27	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD293

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F28	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F28	R2	RESIDENTIAL	BEDROOM	11.9	63.6	63.6	0.0	0
F28	R3	RESIDENTIAL	LKD	25.0	70	70	0.0	0
F28	R4	RESIDENTIAL	LKD	25.1	59.1	59.1	0.0	0
F28	R5	RESIDENTIAL	BEDROOM	11.9	93.3	92.8	0.1	0.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD294

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





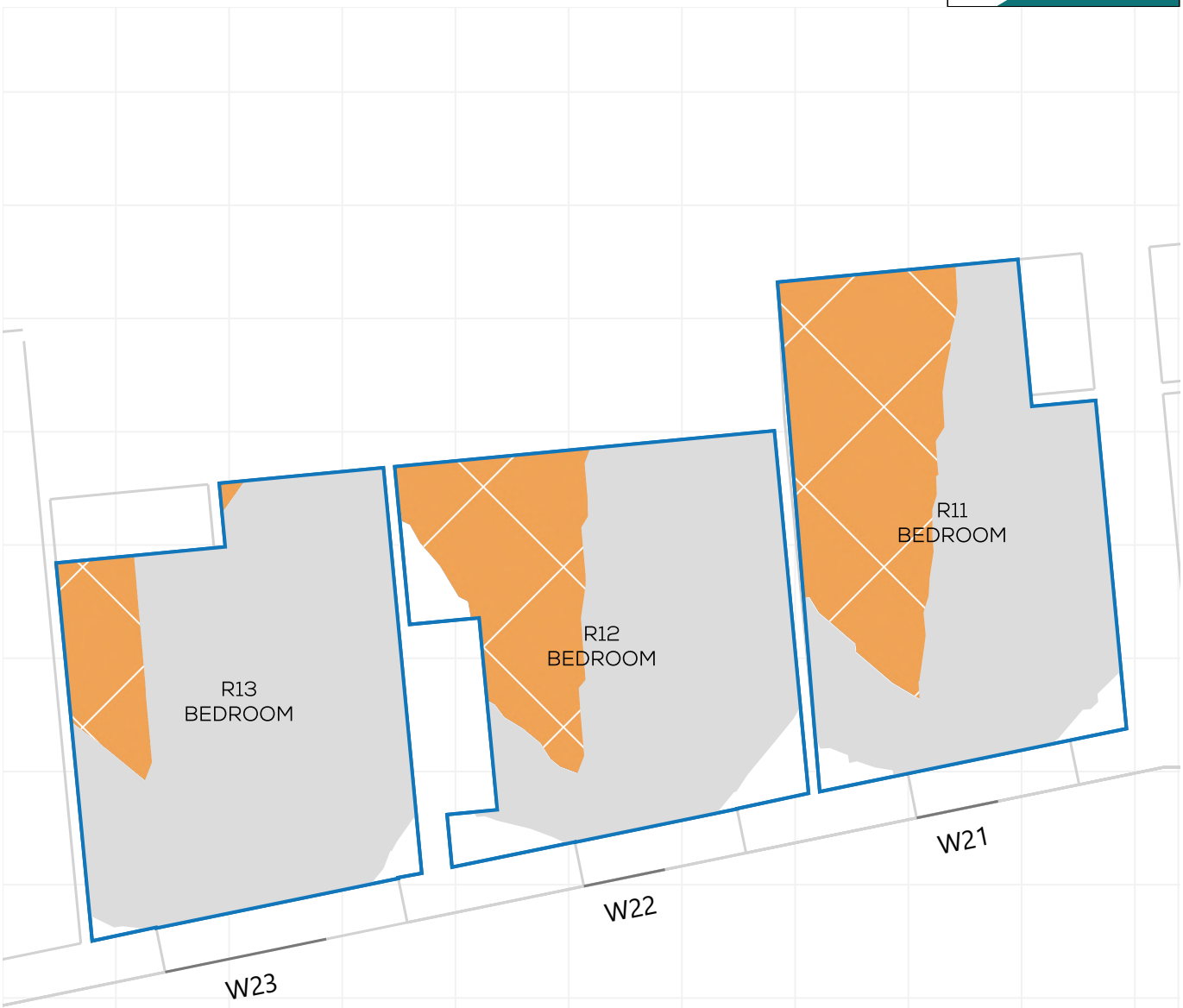
F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F28	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F28	R7	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F28	R8	RESIDENTIAL	BEDROOM	10.3	98.7	86.9	1.2	11.9
F28	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.1	2.9	33.4
F28	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.4	3.1	28.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD295

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



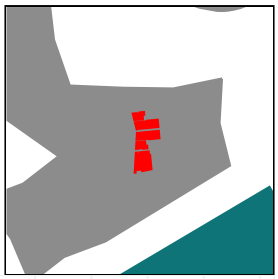
F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F28	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.2	4.3	40.1
F28	R12	RESIDENTIAL	BEDROOM	10.3	91.5	62.8	3.0	31.3
F28	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD296

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F29

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F29	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F29	R2	RESIDENTIAL	BEDROOM	11.9	69.1	69.1	0.0	0
F29	R3	RESIDENTIAL	LKD	25.0	90.6	90.6	0.0	0
F29	R4	RESIDENTIAL	LKD	25.1	78.8	78.8	0.0	0
F29	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93	0.1	0.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD297

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





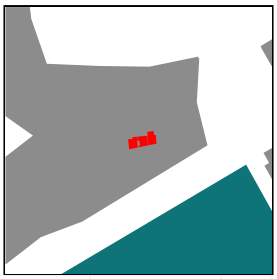
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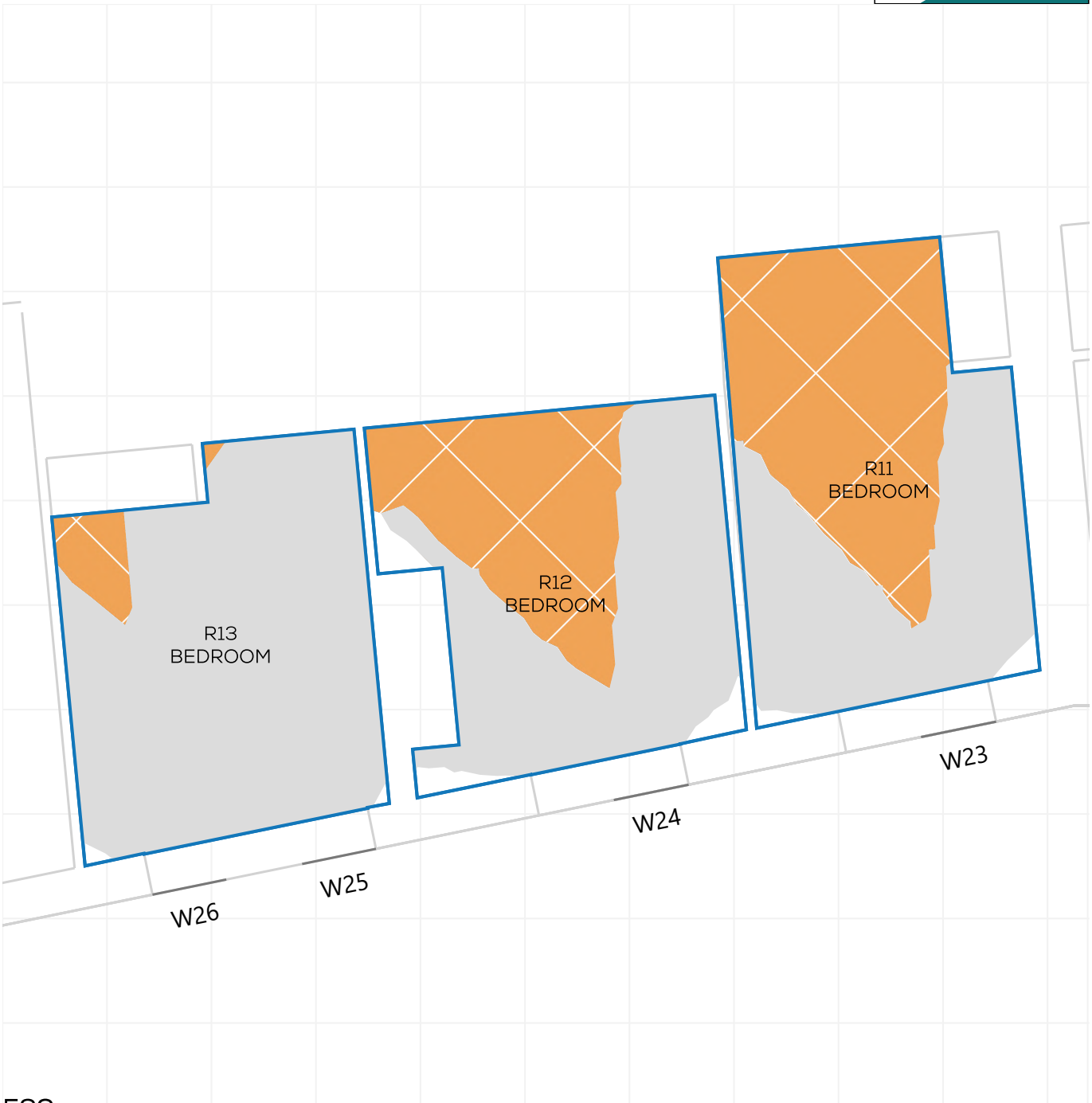
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F29	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F29	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F29	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.9	2.4	24.1
F29	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.9	4.0	43.7
F29	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.4	5.2	47.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD298

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





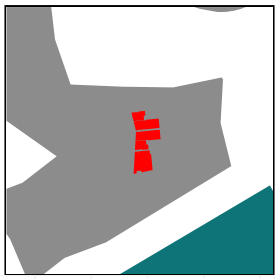
F29

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F29	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47.1	5.7	52.3
F29	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.7	4.0	40.6
F29	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD299

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F30	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F30	R2	RESIDENTIAL	BEDROOM	11.9	65.7	65.7	0.0	0
F30	R3	RESIDENTIAL	LKD	25.0	71.8	71.8	0.0	0
F30	R4	RESIDENTIAL	LKD	25.1	60.9	60.9	0.0	0
F30	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93	0.1	0.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD300

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





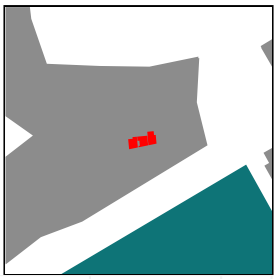
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F30	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F30	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F30	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.6	1.1	11.3
F30	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.2	2.9	33.3
F30	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.5	3.1	28.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD301

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





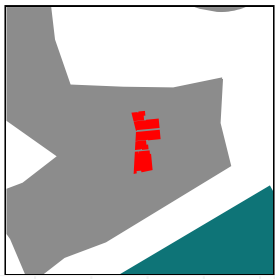
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F30	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.6	4.3	39.6
F30	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63	2.9	31.2
F30	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD302

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F31	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F31	R2	RESIDENTIAL	BEDROOM	11.9	72.9	72.9	0.0	0
F31	R3	RESIDENTIAL	LKD	25.0	92.3	92.3	0.0	0
F31	R4	RESIDENTIAL	LKD	25.1	82.6	82.6	0.0	0
F31	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD303

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





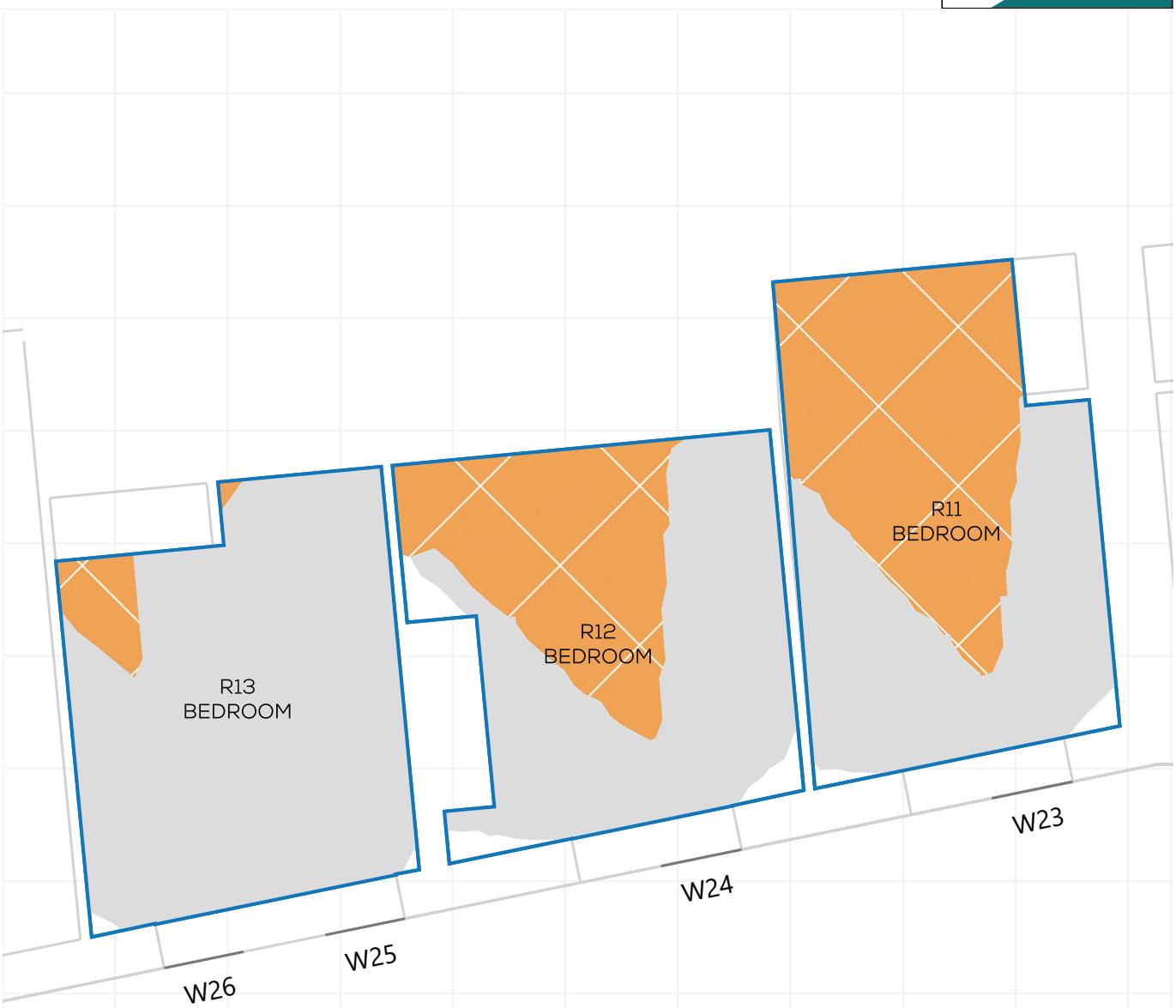
F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F31	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F31	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F31	R8	RESIDENTIAL	BEDROOM	10.3	98.7	75.5	2.4	23.5
F31	R9	RESIDENTIAL	BEDROOM	9.5	95.8	54.1	4.0	43.6
F31	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.5	5.2	47.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD304

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



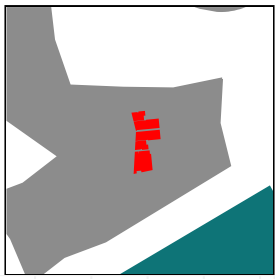
F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F31	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47.1	5.7	52.2
F31	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.8	4.0	40.5
F31	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD305

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F32	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F32	R2	RESIDENTIAL	BEDROOM	11.9	68.4	68.4	0.0	0
F32	R3	RESIDENTIAL	LKD	25.0	73.7	73.7	0.0	0
F32	R4	RESIDENTIAL	LKD	25.1	62.9	62.9	0.0	0
F32	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD306

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





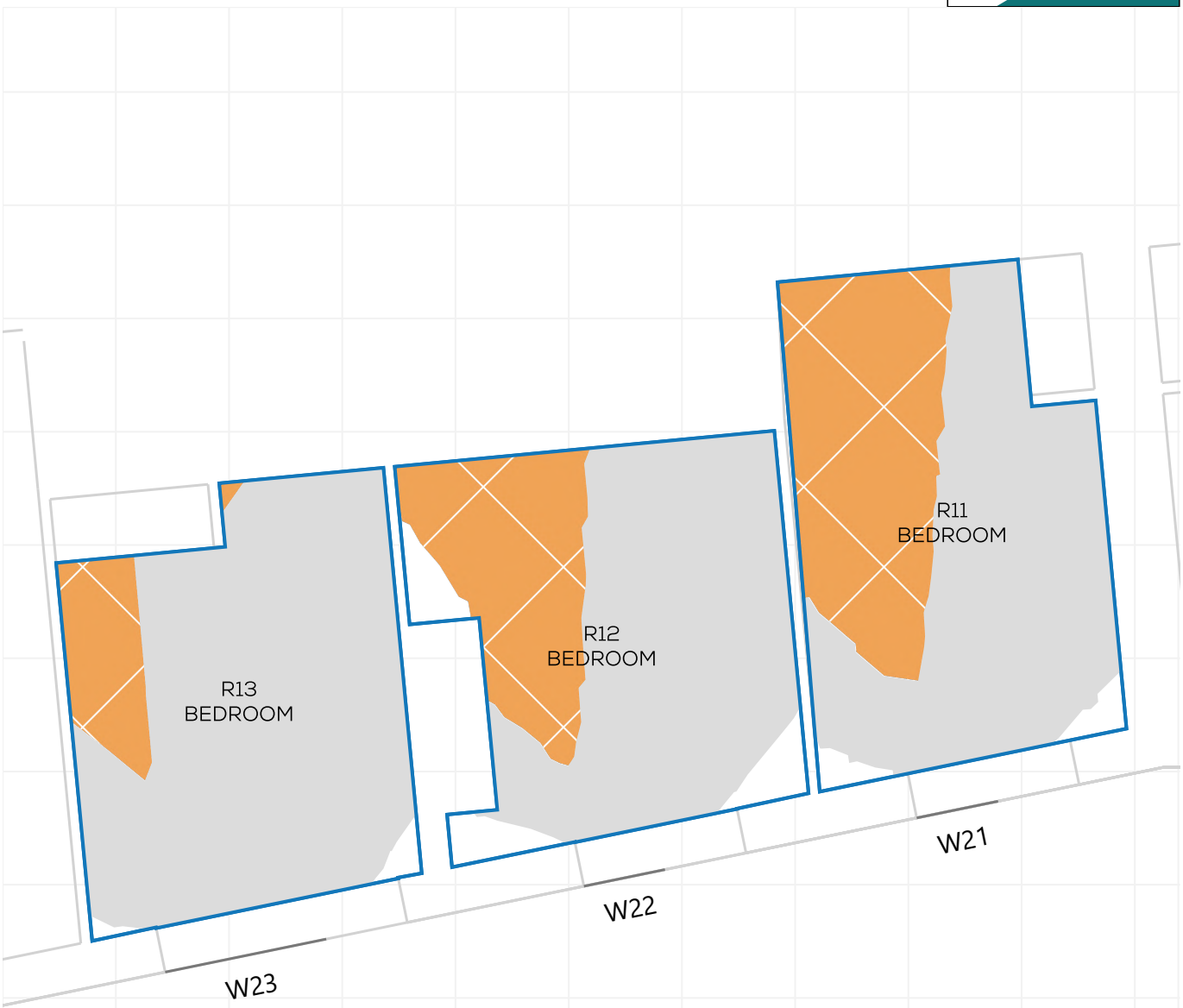
F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F32	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F32	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F32	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.7	1.1	11.2
F32	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.4	2.9	33.1
F32	R10	RESIDENTIAL	BEDROOM	11.2	94.7	67.7	3.0	28.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD307

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



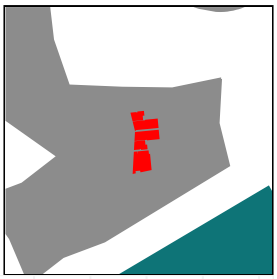
F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F32	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.7	4.3	39.6
F32	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63.1	2.9	31
F32	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD308

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F33	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F33	R2	RESIDENTIAL	BEDROOM	11.9	78.8	78.8	0.0	0
F33	R3	RESIDENTIAL	LKD	25.0	93.5	93.5	0.0	0
F33	R4	RESIDENTIAL	LKD	25.1	86	86	0.0	0
F33	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.1	0.0	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD309

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





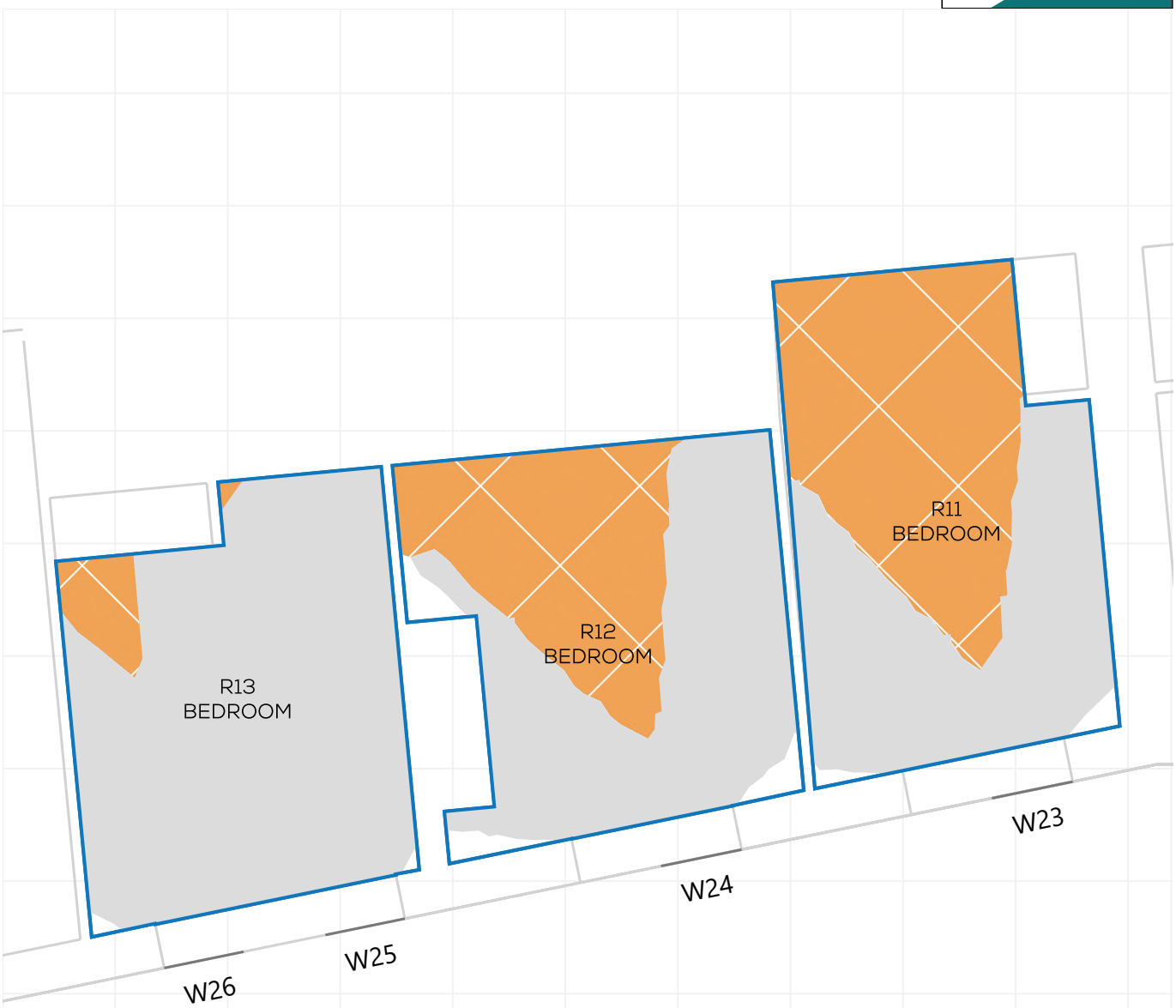
F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F33	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F33	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F33	R8	RESIDENTIAL	BEDROOM	10.3	98.7	75.2	2.4	23.8
F33	R9	RESIDENTIAL	BEDROOM	9.5	95.8	54.1	4.0	43.6
F33	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.6	5.2	47.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD310

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



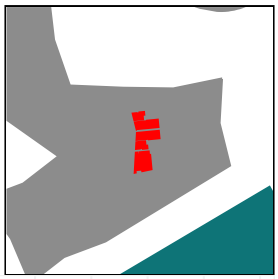
F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F33	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47.3	5.7	52.1
F33	R12	RESIDENTIAL	BEDROOM	10.3	95.5	56.9	4.0	40.5
F33	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD311

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F34	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F34	R2	RESIDENTIAL	BEDROOM	11.9	69.6	69.6	0.0	0
F34	R3	RESIDENTIAL	LKD	25.0	76.4	76.4	0.0	0
F34	R4	RESIDENTIAL	LKD	25.1	65.1	65.1	0.0	0
F34	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.2	0.0	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD312

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





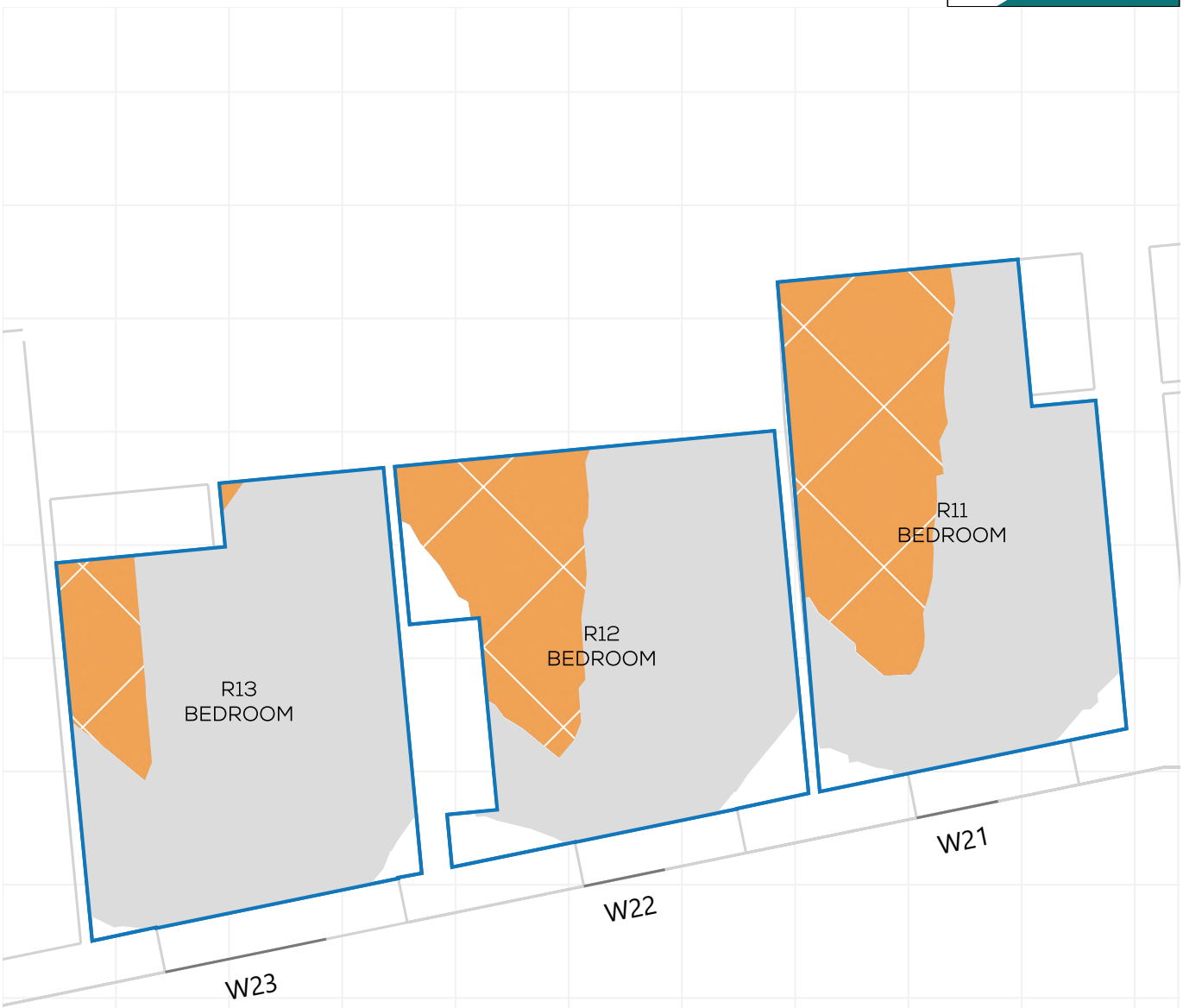
F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F34	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F34	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F34	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.3	1.2	11.6
F34	R9	RESIDENTIAL	BEDROOM	9.5	93.3	62.4	2.9	33.1
F34	R10	RESIDENTIAL	BEDROOM	11.2	94.8	67.9	3.0	28.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD313

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



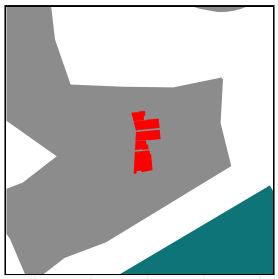
F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F34	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.5	4.3	39.8
F34	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63.3	2.9	30.8
F34	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	12

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD314

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F35	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F35	R2	RESIDENTIAL	BEDROOM	11.9	88.6	88.6	0.0	0
F35	R3	RESIDENTIAL	LKD	25.0	94.9	94.9	0.0	0
F35	R4	RESIDENTIAL	LKD	25.1	88.9	88.9	0.0	0
F35	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.2	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD315

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





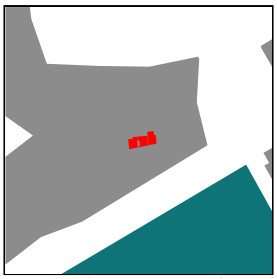
F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F35	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F35	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F35	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.8	2.5	24.2
F35	R9	RESIDENTIAL	BEDROOM	9.5	95.8	53.8	4.0	43.8
F35	R10	RESIDENTIAL	BEDROOM	11.2	97.5	51.6	5.2	47.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD316

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





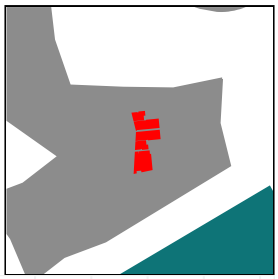
F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F35	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47.3	5.7	52.1
F35	R12	RESIDENTIAL	BEDROOM	10.3	95.5	57	4.0	40.3
F35	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD317

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F36	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F36	R2	RESIDENTIAL	BEDROOM	11.9	69.9	69.9	0.0	0
F36	R3	RESIDENTIAL	LKD	25.0	78.9	78.9	0.0	0
F36	R4	RESIDENTIAL	LKD	25.1	67.3	67.3	0.0	0
F36	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.3	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD318

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F36	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F36	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F36	R8	RESIDENTIAL	BEDROOM	10.3	98.7	86.9	1.2	12
F36	R9	RESIDENTIAL	BEDROOM	9.5	93.3	63	2.9	32.5
F36	R10	RESIDENTIAL	BEDROOM	11.2	94.8	68.3	3.0	27.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD319

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



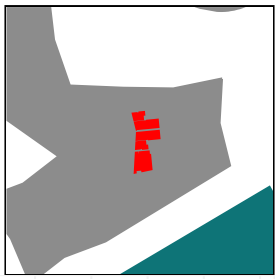
F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F36	R11	RESIDENTIAL	BEDROOM	11.1	97.2	58.7	4.3	39.6
F36	R12	RESIDENTIAL	BEDROOM	10.3	91.5	63.7	2.9	30.3
F36	R13	RESIDENTIAL	BEDROOM	10.3	98.4	86.6	1.2	11.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD320

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F37

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F37	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F37	R2	RESIDENTIAL	BEDROOM	11.9	91.9	91.9	0.0	0
F37	R3	RESIDENTIAL	LKD	25.0	95.2	95.2	0.0	0
F37	R4	RESIDENTIAL	LKD	25.1	92.3	92.3	0.0	0
F37	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.3	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD321

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





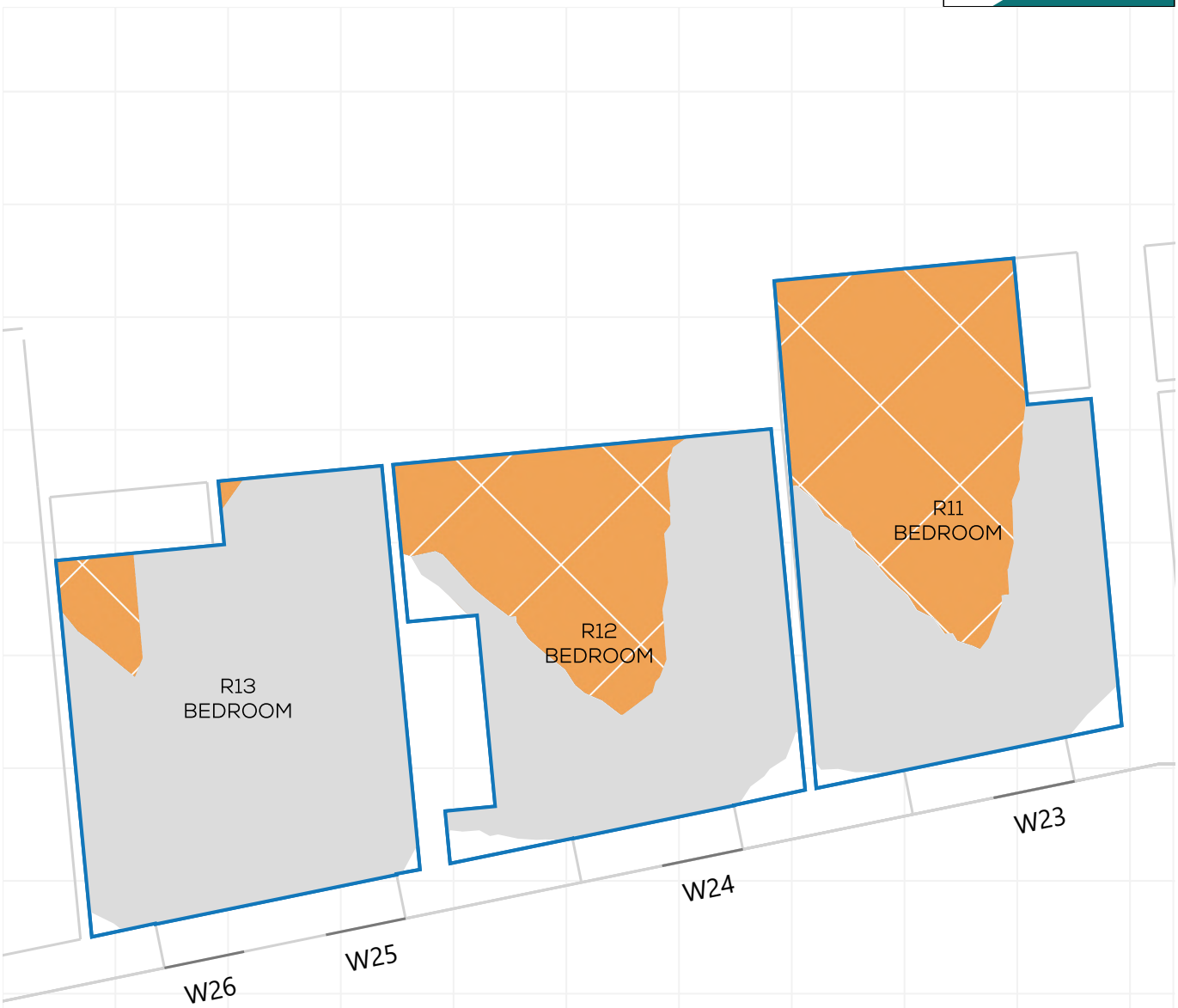
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F37	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F37	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F37	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.7	2.5	24.3
F37	R9	RESIDENTIAL	BEDROOM	9.5	95.8	54.5	3.9	43.2
F37	R10	RESIDENTIAL	BEDROOM	11.2	97.5	52.3	5.1	46.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD322

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



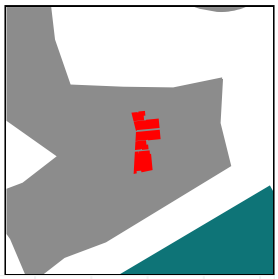
F37

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F37	R11	RESIDENTIAL	BEDROOM	11.1	98.7	47.7	5.7	51.6
F37	R12	RESIDENTIAL	BEDROOM	10.3	95.5	57.8	3.9	39.5
F37	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD323

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F38

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F38	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F38	R2	RESIDENTIAL	BEDROOM	11.9	69.9	69.9	0.0	0
F38	R3	RESIDENTIAL	LKD	25.0	80	80	0.0	0
F38	R4	RESIDENTIAL	LKD	25.1	69.6	69.6	0.0	0
F38	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.3	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD324

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F38

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F38	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F38	R7	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F38	R8	RESIDENTIAL	BEDROOM	10.3	98.7	86.1	1.3	12.8
F38	R9	RESIDENTIAL	BEDROOM	9.5	93.3	63.7	2.8	31.8
F38	R10	RESIDENTIAL	BEDROOM	11.2	94.9	69	2.9	27.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD325

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



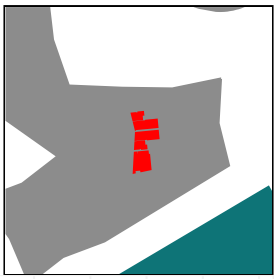
F38

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F38	R11	RESIDENTIAL	BEDROOM	11.1	97.2	59.2	4.2	39.1
F38	R12	RESIDENTIAL	BEDROOM	10.3	91.5	64.8	2.8	29.2
F38	R13	RESIDENTIAL	BEDROOM	10.3	98.4	87	1.2	11.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD326

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F39

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F39	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F39	R2	RESIDENTIAL	BEDROOM	11.9	91.9	91.9	0.0	0
F39	R3	RESIDENTIAL	LKD	25.0	95.2	95.2	0.0	0
F39	R4	RESIDENTIAL	LKD	25.1	93.4	93.4	0.0	0
F39	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD327

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





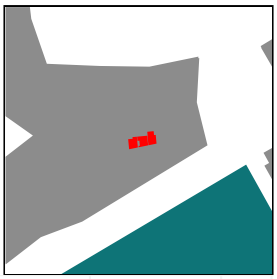
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F39	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F39	R7	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F39	R8	RESIDENTIAL	BEDROOM	10.3	98.7	74.5	2.5	24.5
F39	R9	RESIDENTIAL	BEDROOM	9.5	95.8	55.5	3.8	42.1
F39	R10	RESIDENTIAL	BEDROOM	11.2	97.5	53.5	4.9	45.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD328

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





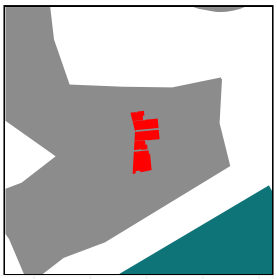
F39

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F39	R11	RESIDENTIAL	BEDROOM	11.1	98.7	49	5.5	50.3
F39	R12	RESIDENTIAL	BEDROOM	10.3	95.5	59	3.8	38.2
F39	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD329

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F40	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F40	R2	RESIDENTIAL	BEDROOM	11.9	69.9	69.9	0.0	0
F40	R3	RESIDENTIAL	LKD	25.0	80.6	80.6	0.0	0
F40	R4	RESIDENTIAL	LKD	25.1	71.7	71.7	0.0	0
F40	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD330

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F40	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F40	R7	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F40	R8	RESIDENTIAL	BEDROOM	10.3	98.7	86.7	1.2	12.2
F40	R9	RESIDENTIAL	BEDROOM	9.5	93.4	65	2.7	30.4
F40	R10	RESIDENTIAL	BEDROOM	11.2	94.9	70.4	2.8	25.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD331

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



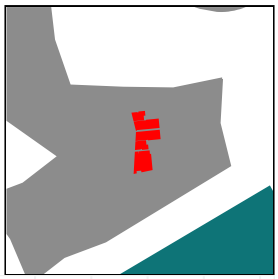
F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F40	R11	RESIDENTIAL	BEDROOM	11.1	97.2	60.7	4.1	37.5
F40	R12	RESIDENTIAL	BEDROOM	10.3	91.5	66	2.6	27.8
F40	R13	RESIDENTIAL	BEDROOM	10.3	98.4	87.6	1.1	11

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD332

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F41

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F41	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F41	R2	RESIDENTIAL	BEDROOM	11.9	91.9	91.9	0.0	0
F41	R3	RESIDENTIAL	LKD	25.0	95.3	95.3	0.0	0
F41	R4	RESIDENTIAL	LKD	25.1	93.7	93.7	0.0	0
F41	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD333

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





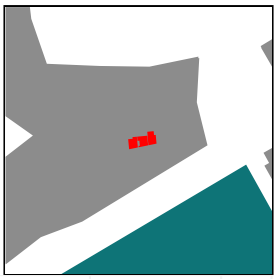
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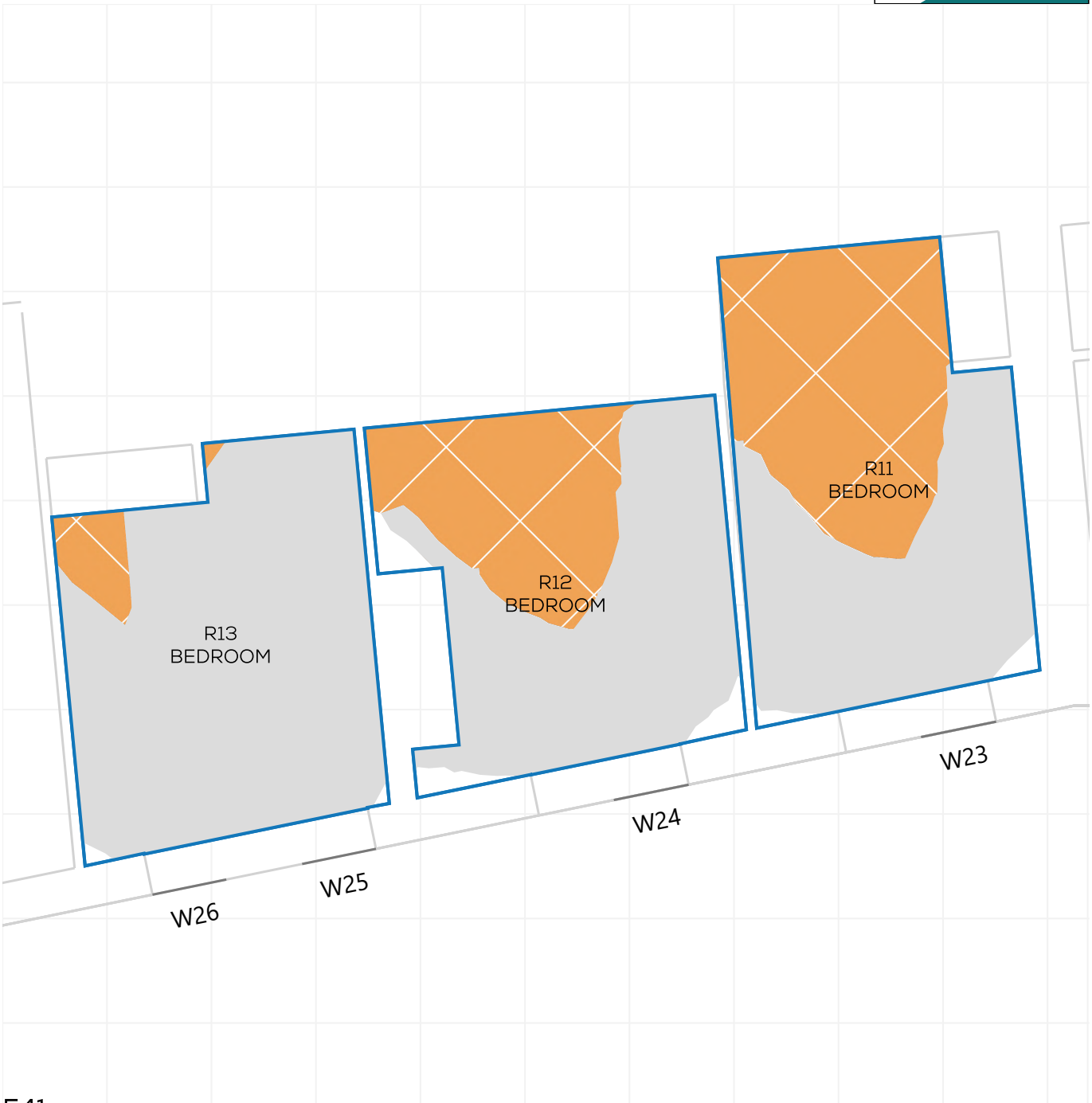
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F41	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F41	R7	RESIDENTIAL	LKD	39.4	100	99.9	0.0	0.1
F41	R8	RESIDENTIAL	BEDROOM	10.3	98.7	75	2.4	24
F41	R9	RESIDENTIAL	BEDROOM	9.5	95.8	57.6	3.6	39.9
F41	R10	RESIDENTIAL	BEDROOM	11.2	97.5	55.3	4.7	43.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD334

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





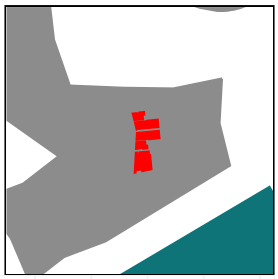
F41

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F41	R11	RESIDENTIAL	BEDROOM	11.1	98.7	50.8	5.3	48.5
F41	R12	RESIDENTIAL	BEDROOM	10.3	95.5	60.8	3.6	36.4
F41	R13	RESIDENTIAL	BEDROOM	10.3	99.5	93.7	0.6	5.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD335

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F42	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F42	R2	RESIDENTIAL	BEDROOM	11.9	70	70	0.0	0
F42	R3	RESIDENTIAL	LKD	25.0	80.9	80.9	0.0	0
F42	R4	RESIDENTIAL	LKD	25.1	72.5	72.5	0.0	0
F42	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD336

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





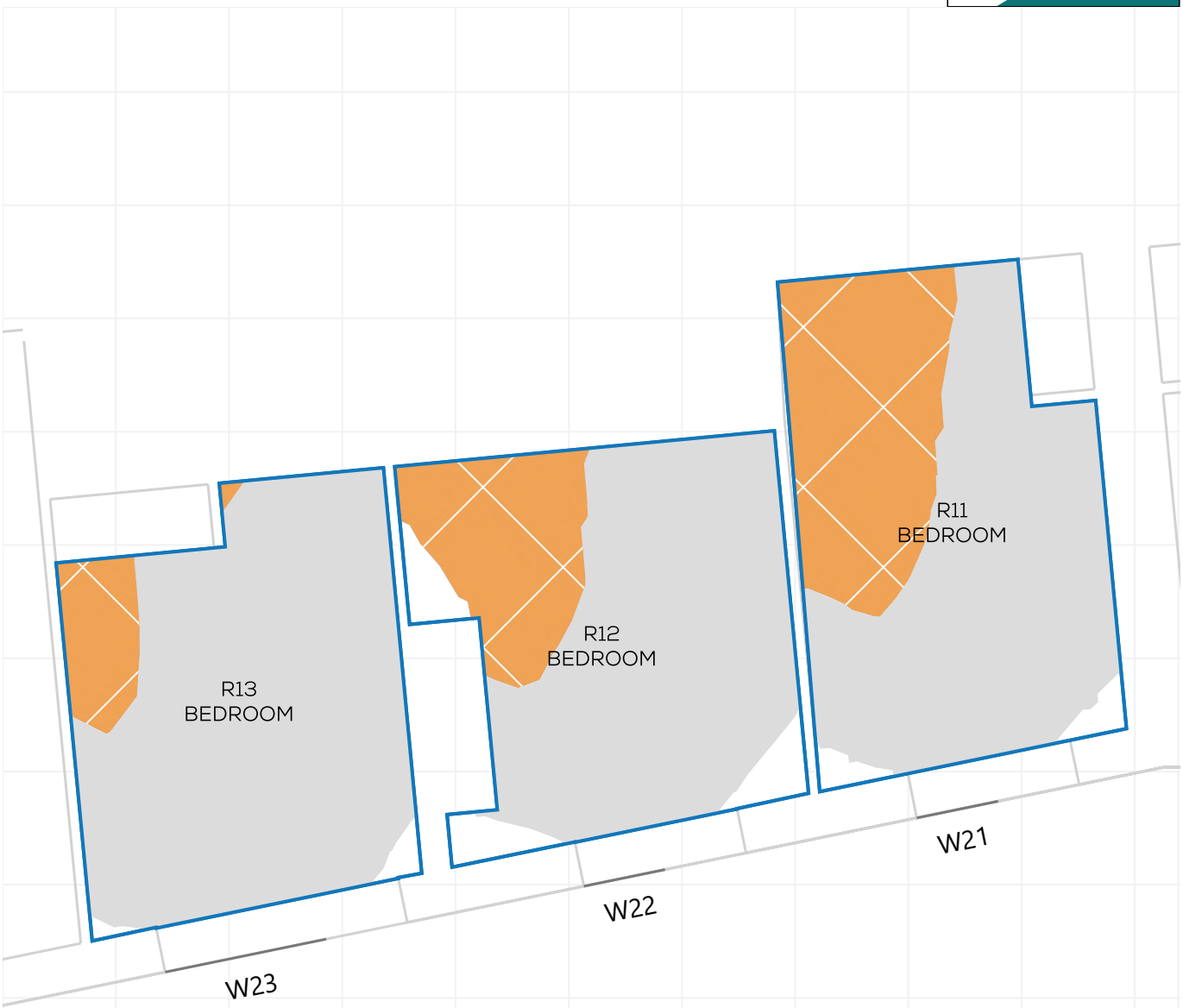
F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F42	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F42	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F42	R8	RESIDENTIAL	BEDROOM	10.3	98.7	87.3	1.2	11.6
F42	R9	RESIDENTIAL	BEDROOM	9.5	93.5	67.7	2.4	27.6
F42	R10	RESIDENTIAL	BEDROOM	11.2	95	72.4	2.5	23.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD337

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



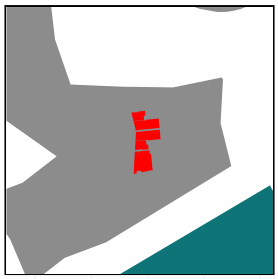
F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F42	R11	RESIDENTIAL	BEDROOM	11.1	97.2	63.4	3.8	34.7
F42	R12	RESIDENTIAL	BEDROOM	10.3	91.5	68.4	2.4	25.2
F42	R13	RESIDENTIAL	BEDROOM	10.3	98.4	89	1.0	9.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD338

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F43

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F43	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F43	R2	RESIDENTIAL	BEDROOM	11.9	91.9	91.9	0.0	0
F43	R3	RESIDENTIAL	LKD	25.0	95.3	95.3	0.0	0
F43	R4	RESIDENTIAL	LKD	25.1	93.7	93.7	0.0	0
F43	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD339

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





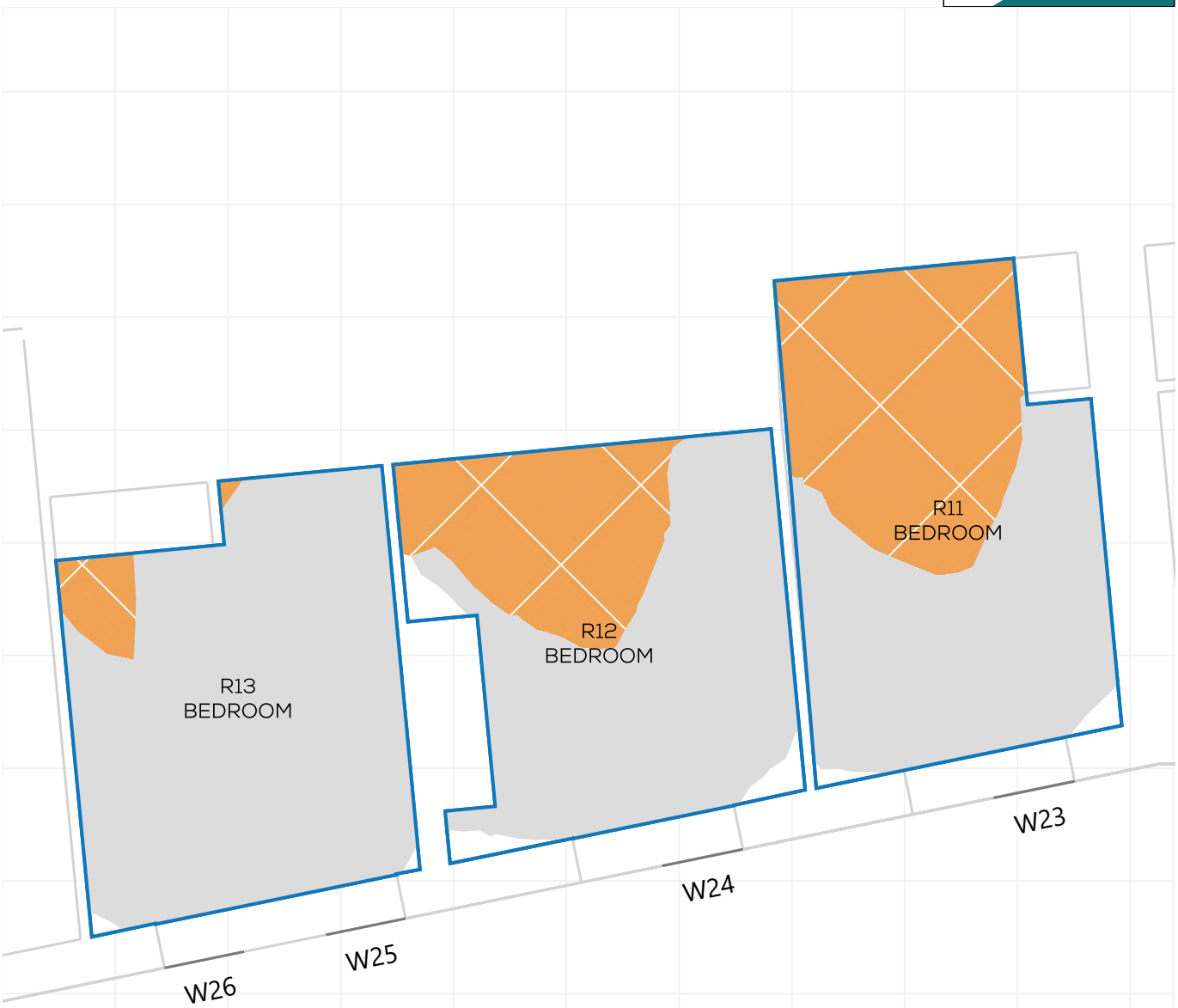
F43

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F43	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F43	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F43	R8	RESIDENTIAL	BEDROOM	10.3	98.7	76.8	2.3	22.2
F43	R9	RESIDENTIAL	BEDROOM	9.5	95.8	61.2	3.3	36.2
F43	R10	RESIDENTIAL	BEDROOM	11.2	97.5	58.2	4.4	40.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD340

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



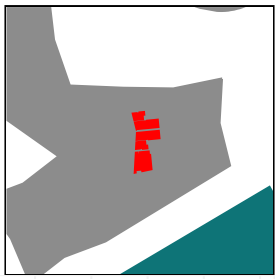
F43

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F43	R11	RESIDENTIAL	BEDROOM	11.1	98.7	54.2	5.0	45
F43	R12	RESIDENTIAL	BEDROOM	10.3	95.5	64.4	3.2	32.6
F43	R13	RESIDENTIAL	BEDROOM	10.3	99.5	94.2	0.5	5.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD341

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F44

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F44	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F44	R2	RESIDENTIAL	BEDROOM	11.9	70.1	70.1	0.0	0
F44	R3	RESIDENTIAL	LKD	25.0	81.2	81.2	0.0	0
F44	R4	RESIDENTIAL	LKD	25.1	73	73	0.0	0
F44	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD342

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





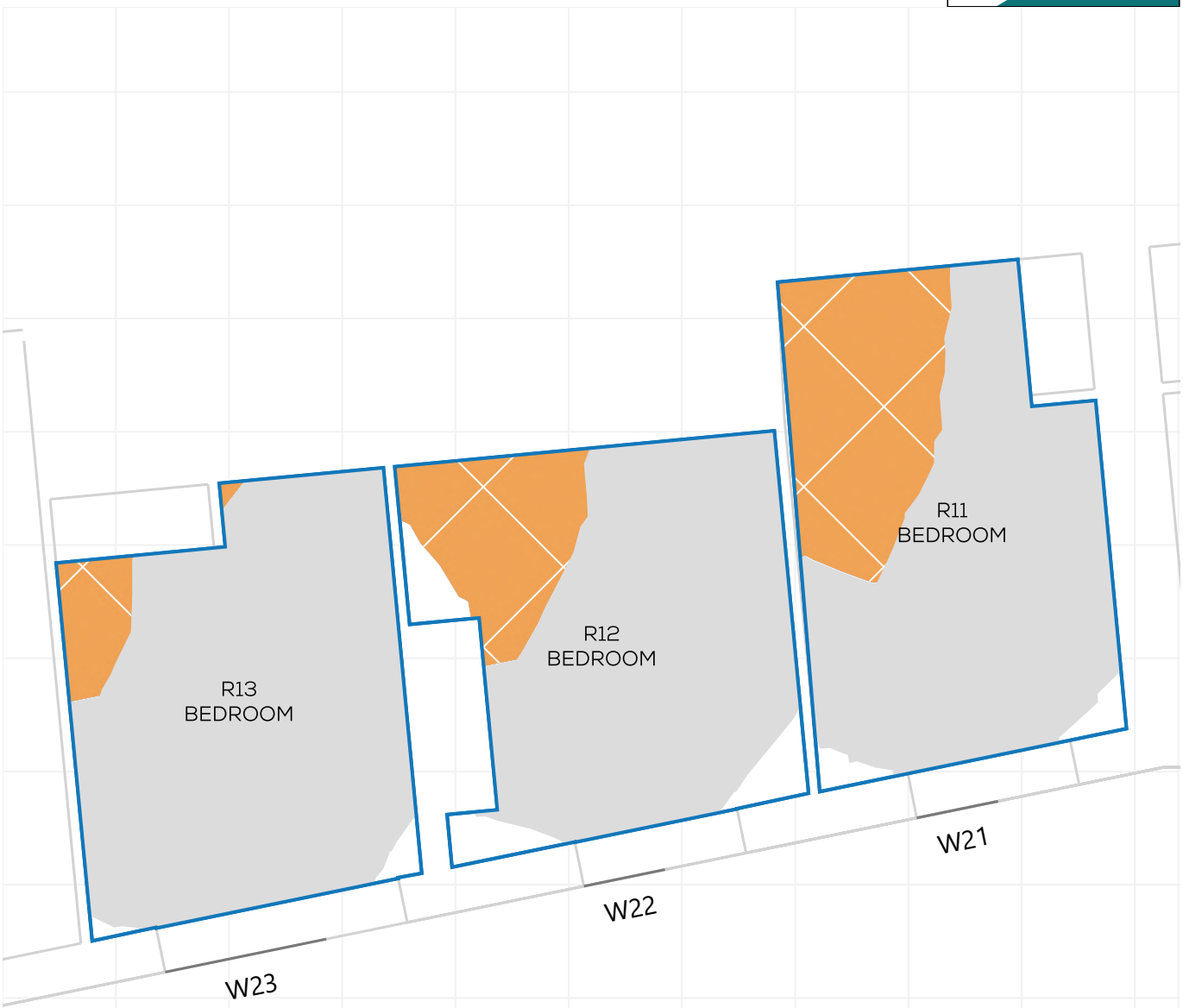
F44

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F44	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F44	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F44	R8	RESIDENTIAL	BEDROOM	10.3	98.8	88.4	1.1	10.5
F44	R9	RESIDENTIAL	BEDROOM	9.5	93.6	72	2.0	23
F44	R10	RESIDENTIAL	BEDROOM	11.2	95.1	75.7	2.2	20.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD343

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



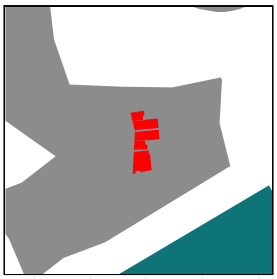
F44

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F44	R11	RESIDENTIAL	BEDROOM	11.1	97.3	67.9	3.3	30.2
F44	R12	RESIDENTIAL	BEDROOM	10.3	91.5	71.8	2.0	21.5
F44	R13	RESIDENTIAL	BEDROOM	10.3	98.4	91.6	0.7	6.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD344

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F45

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F45	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F45	R2	RESIDENTIAL	BEDROOM	11.9	92	92	0.0	0
F45	R3	RESIDENTIAL	LKD	25.0	95.3	95.3	0.0	0
F45	R4	RESIDENTIAL	LKD	25.1	93.7	93.7	0.0	0
F45	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD345

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





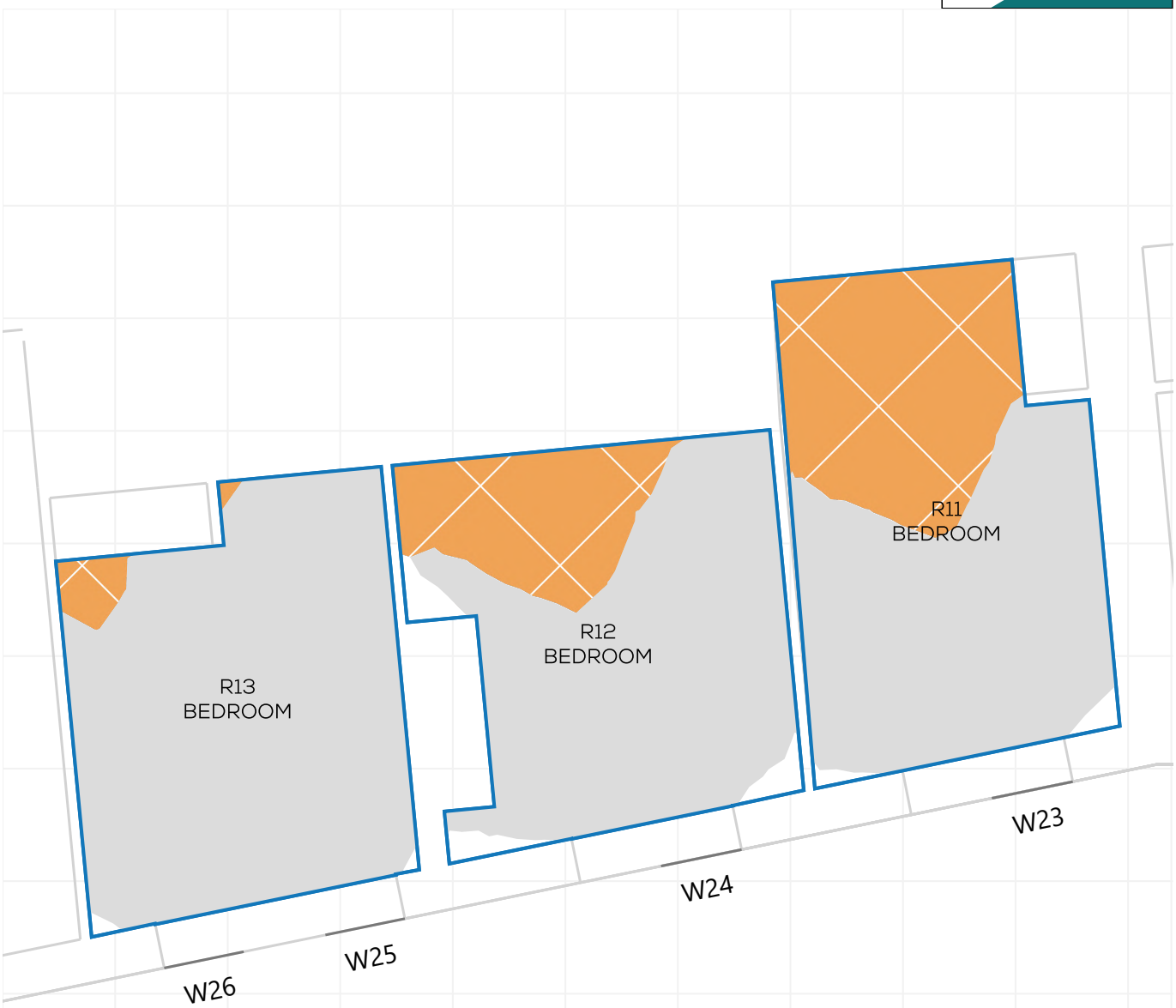
F45

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F45	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F45	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F45	R8	RESIDENTIAL	BEDROOM	10.3	98.8	80.6	1.9	18.4
F45	R9	RESIDENTIAL	BEDROOM	9.5	95.8	68.6	2.6	28.4
F45	R10	RESIDENTIAL	BEDROOM	11.2	97.5	64.6	3.7	33.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD346

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



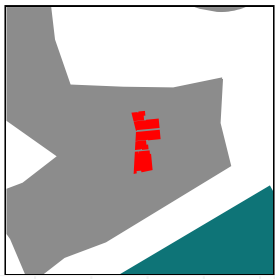
F45

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F45	R11	RESIDENTIAL	BEDROOM	11.1	98.7	60.6	4.2	38.6
F45	R12	RESIDENTIAL	BEDROOM	10.3	95.5	72	2.4	24.6
F45	R13	RESIDENTIAL	BEDROOM	10.3	99.5	96.1	0.3	3.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD347

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F46

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F46	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F46	R2	RESIDENTIAL	BEDROOM	11.9	70.3	70.3	0.0	0
F46	R3	RESIDENTIAL	LKD	25.0	81.6	81.6	0.0	0
F46	R4	RESIDENTIAL	LKD	25.1	73.4	73.4	0.0	0
F46	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD348

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





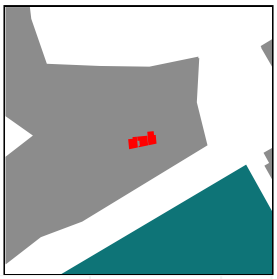
F46

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F46	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F46	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F46	R8	RESIDENTIAL	BEDROOM	10.3	98.8	90.4	0.9	8.5
F46	R9	RESIDENTIAL	BEDROOM	9.5	93.7	80.2	1.3	14.4
F46	R10	RESIDENTIAL	BEDROOM	11.2	95.2	82.5	1.4	13.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD349

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





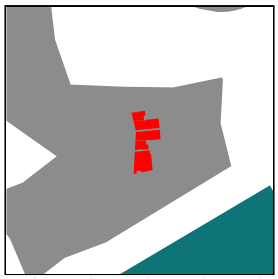
F46

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F46	R11	RESIDENTIAL	BEDROOM	11.1	97.4	75.4	2.5	22.6
F46	R12	RESIDENTIAL	BEDROOM	10.3	91.5	79.4	1.3	13.2
F46	R13	RESIDENTIAL	BEDROOM	10.3	98.4	96.9	0.2	1.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD350

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F47

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F47	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F47	R2	RESIDENTIAL	BEDROOM	11.9	92	92	0.0	0
F47	R3	RESIDENTIAL	LKD	25.0	95.3	95.3	0.0	0
F47	R4	RESIDENTIAL	LKD	25.1	93.7	93.7	0.0	0
F47	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD351

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





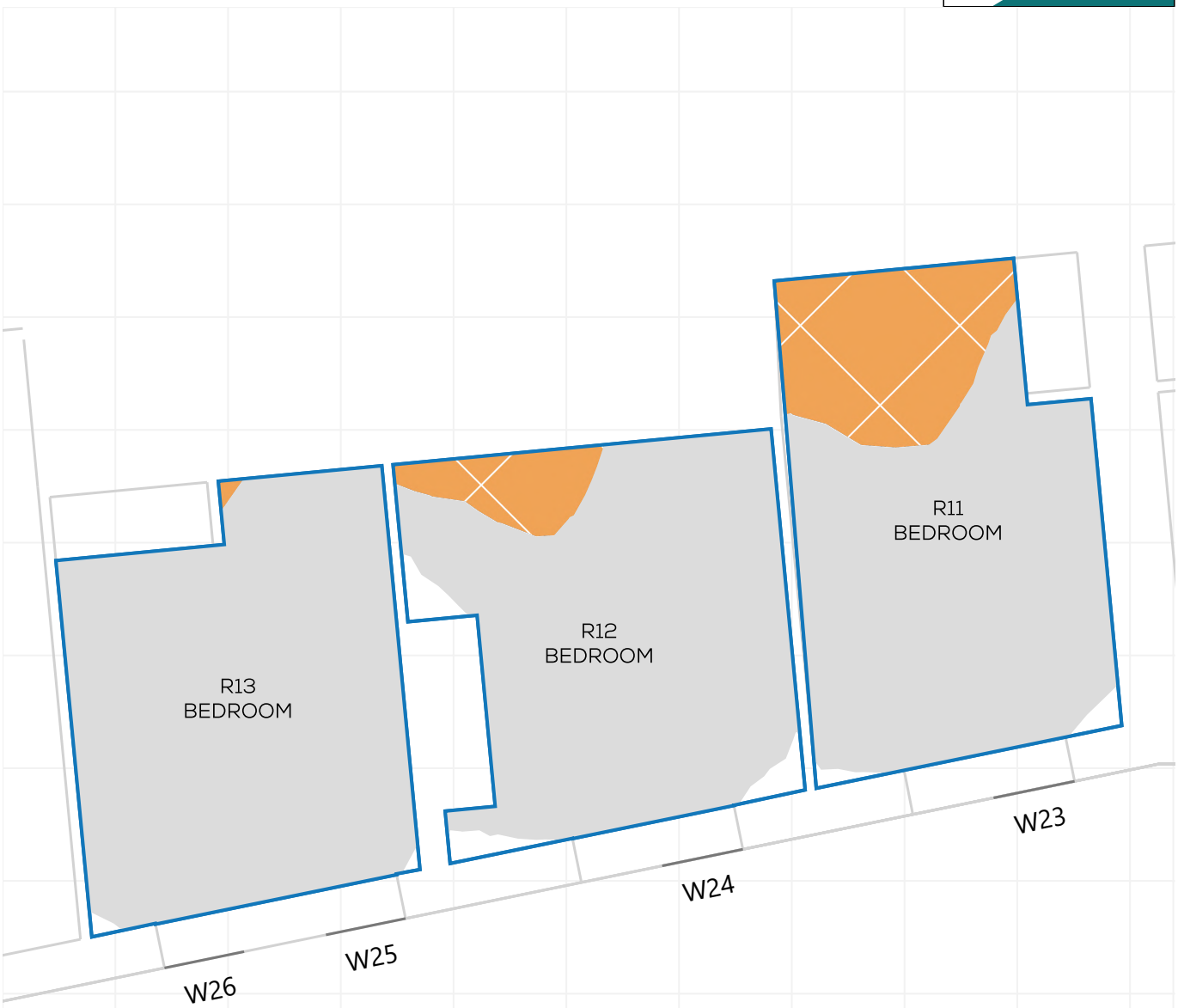
F47

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F47	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F47	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F47	R8	RESIDENTIAL	BEDROOM	10.3	98.8	89.7	0.9	9.1
F47	R9	RESIDENTIAL	BEDROOM	9.5	95.9	84.1	1.1	12.3
F47	R10	RESIDENTIAL	BEDROOM	11.2	97.5	78.4	2.2	19.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD352

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



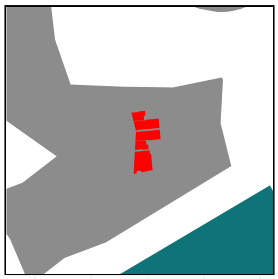
F47

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F47	R11	RESIDENTIAL	BEDROOM	11.1	98.7	74.6	2.7	24.4
F47	R12	RESIDENTIAL	BEDROOM	10.3	95.5	86.9	0.9	9
F47	R13	RESIDENTIAL	BEDROOM	10.3	99.5	99.2	0.0	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD353

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F48

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F48	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F48	R2	RESIDENTIAL	BEDROOM	11.9	70.5	70.5	0.0	0
F48	R3	RESIDENTIAL	LKD	25.0	81.9	81.9	0.0	0
F48	R4	RESIDENTIAL	LKD	25.1	73.5	73.5	0.0	0
F48	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD354

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





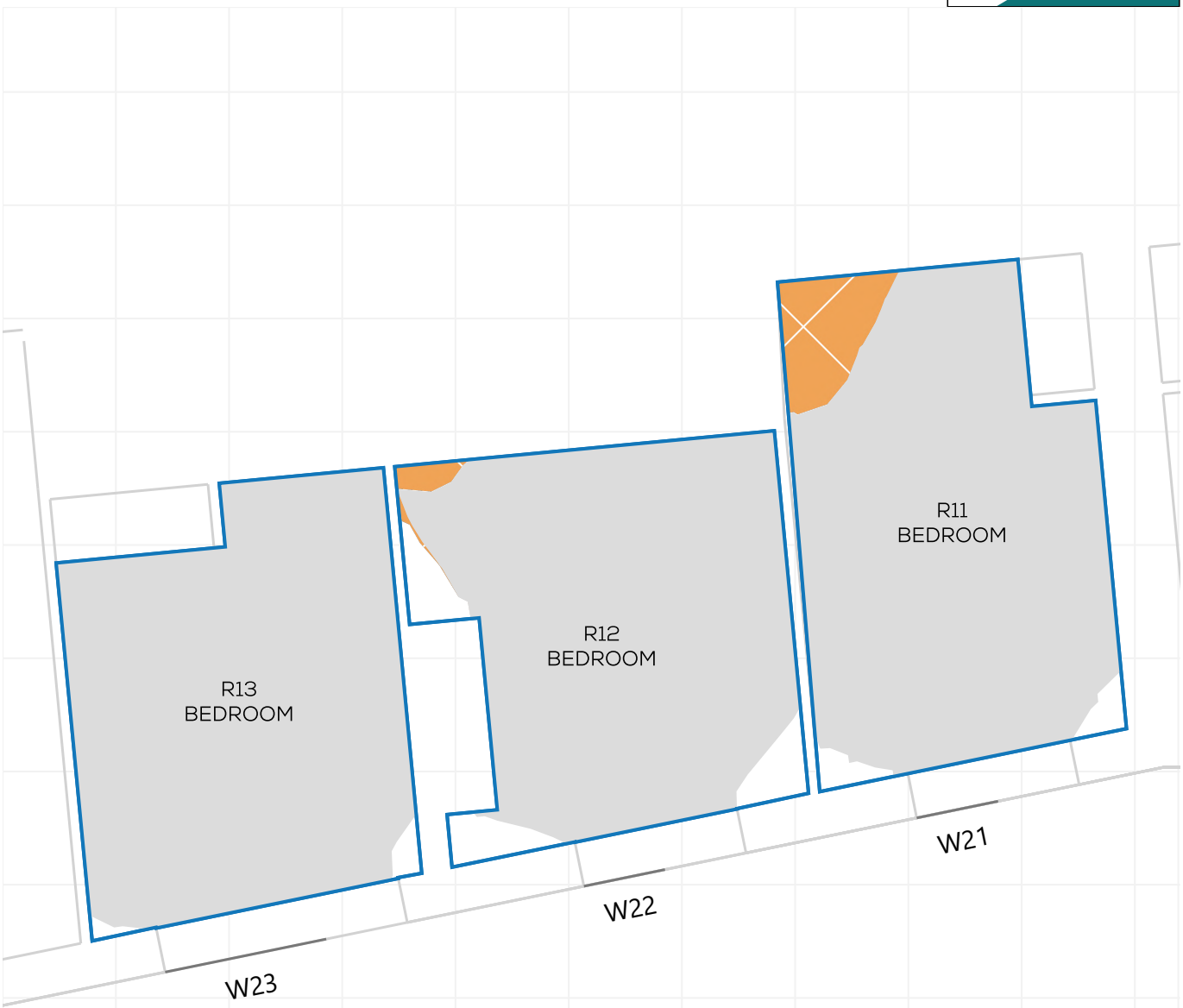
F48

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F48	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F48	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F48	R8	RESIDENTIAL	BEDROOM	10.3	98.8	98.7	0.0	0.1
F48	R9	RESIDENTIAL	BEDROOM	9.5	93.8	93.2	0.1	0.7
F48	R10	RESIDENTIAL	BEDROOM	11.2	95.4	93.5	0.2	2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD355

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



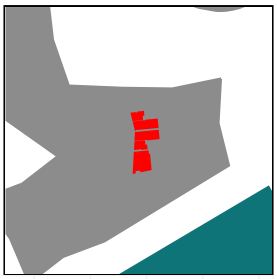
F48

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F48	R11	RESIDENTIAL	BEDROOM	11.1	97.4	89.9	0.8	7.8
F48	R12	RESIDENTIAL	BEDROOM	10.3	91.6	90.2	0.1	1.5
F48	R13	RESIDENTIAL	BEDROOM	10.3	98.6	98.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD356

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F49

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F49	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F49	R2	RESIDENTIAL	BEDROOM	11.9	92.1	92.1	0.0	0
F49	R3	RESIDENTIAL	LKD	25.0	95.4	95.4	0.0	0
F49	R4	RESIDENTIAL	LKD	25.1	93.8	93.8	0.0	0
F49	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD357

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





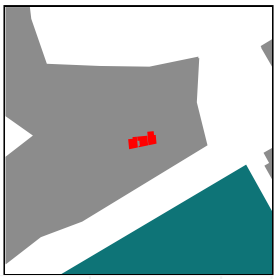
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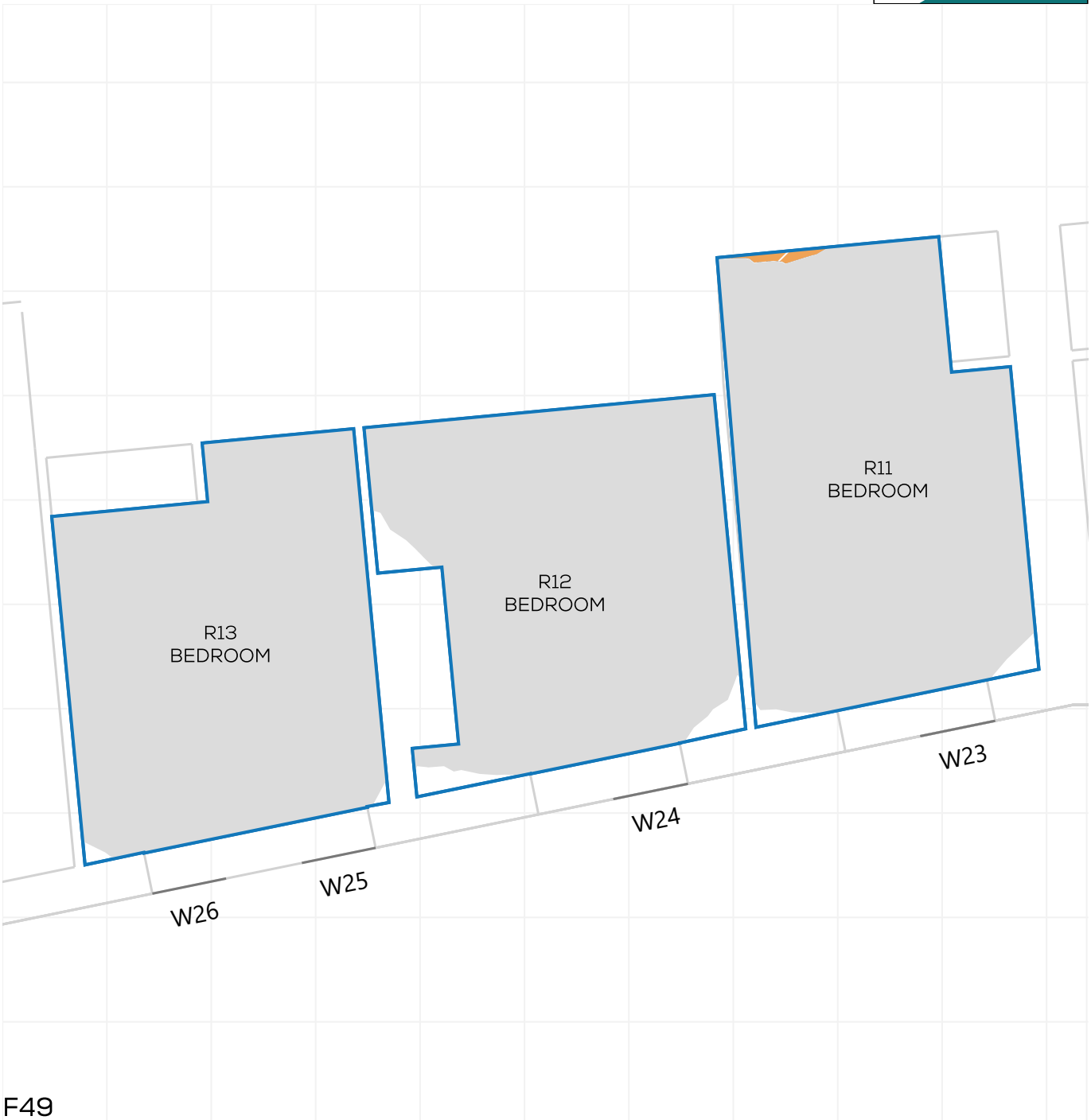
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F49	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F49	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F49	R8	RESIDENTIAL	BEDROOM	10.3	98.9	98.9	0.0	0
F49	R9	RESIDENTIAL	BEDROOM	9.5	96	96	0.0	0
F49	R10	RESIDENTIAL	BEDROOM	11.2	97.6	96.6	0.1	1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD358

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





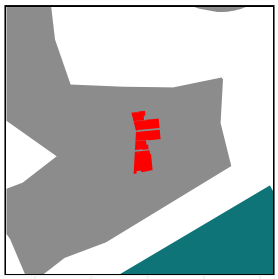
F49

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F49	R11	RESIDENTIAL	BEDROOM	11.1	98.7	98.1	0.1	0.6
F49	R12	RESIDENTIAL	BEDROOM	10.3	95.5	95.5	0.0	0
F49	R13	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD359

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F50

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F50	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F50	R2	RESIDENTIAL	BEDROOM	11.9	71	71	0.0	0
F50	R3	RESIDENTIAL	LKD	25.0	82.1	82.1	0.0	0
F50	R4	RESIDENTIAL	LKD	25.1	73.8	73.8	0.0	0
F50	R5	RESIDENTIAL	BEDROOM	11.9	93.4	93.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD360

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





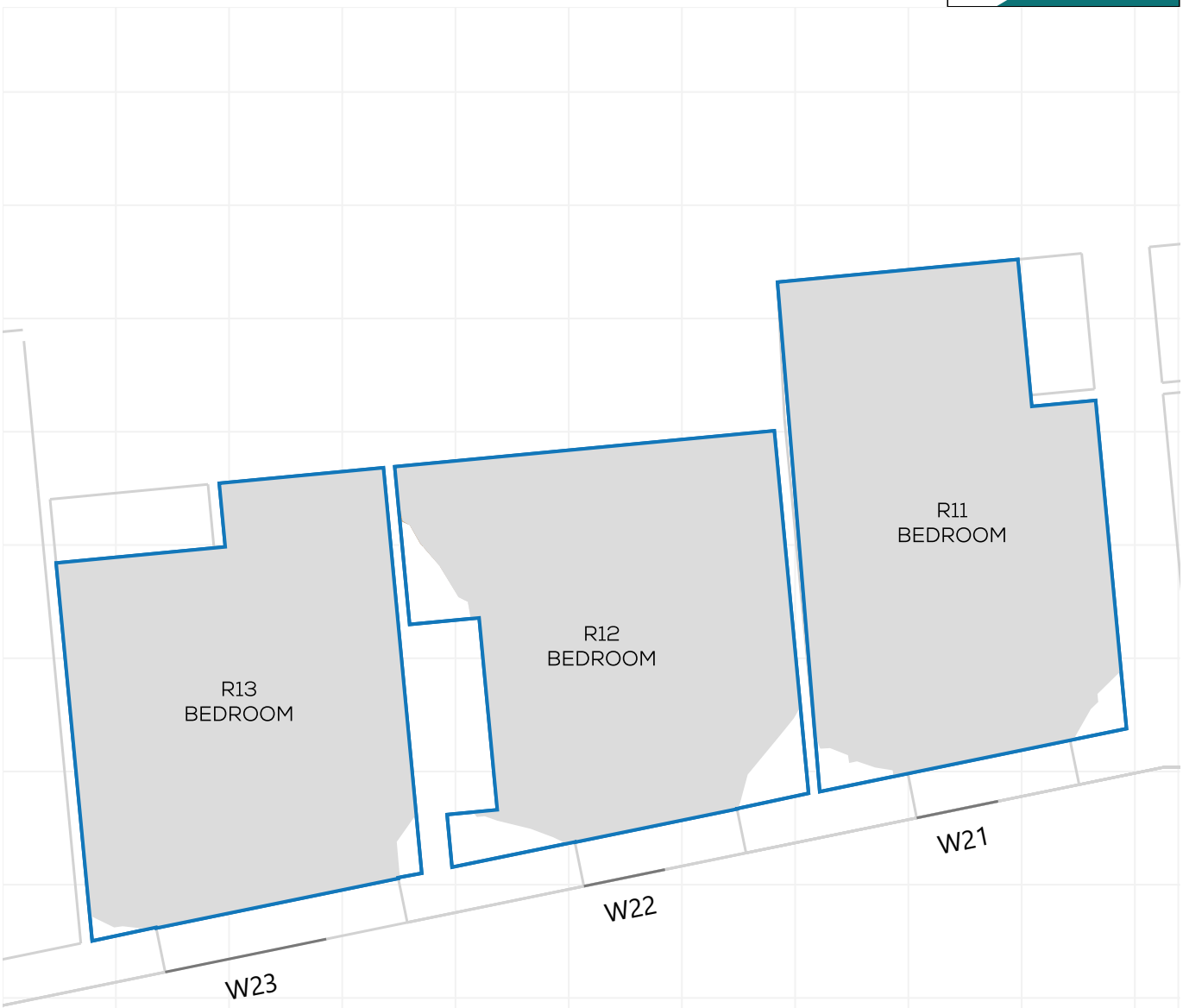
F50

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F50	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F50	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F50	R8	RESIDENTIAL	BEDROOM	10.3	98.8	98.8	0.0	0
F50	R9	RESIDENTIAL	BEDROOM	9.5	94.3	94.3	0.0	0
F50	R10	RESIDENTIAL	BEDROOM	11.2	95.7	95.7	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD361

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



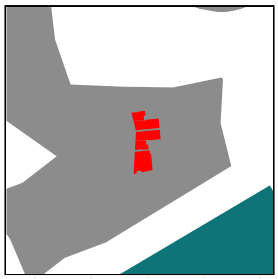
F50

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F50	R11	RESIDENTIAL	BEDROOM	11.1	97.4	97.4	0.0	0
F50	R12	RESIDENTIAL	BEDROOM	10.3	91.7	91.7	0.0	0
F50	R13	RESIDENTIAL	BEDROOM	10.3	98.8	98.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD362

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F51

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F51	R1	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F51	R2	RESIDENTIAL	BEDROOM	11.9	92.3	92.3	0.0	0
F51	R3	RESIDENTIAL	LKD	25.0	95.5	95.5	0.0	0
F51	R4	RESIDENTIAL	LKD	25.1	93.7	93.7	0.0	0
F51	R5	RESIDENTIAL	BEDROOM	11.9	93.5	93.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD363

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





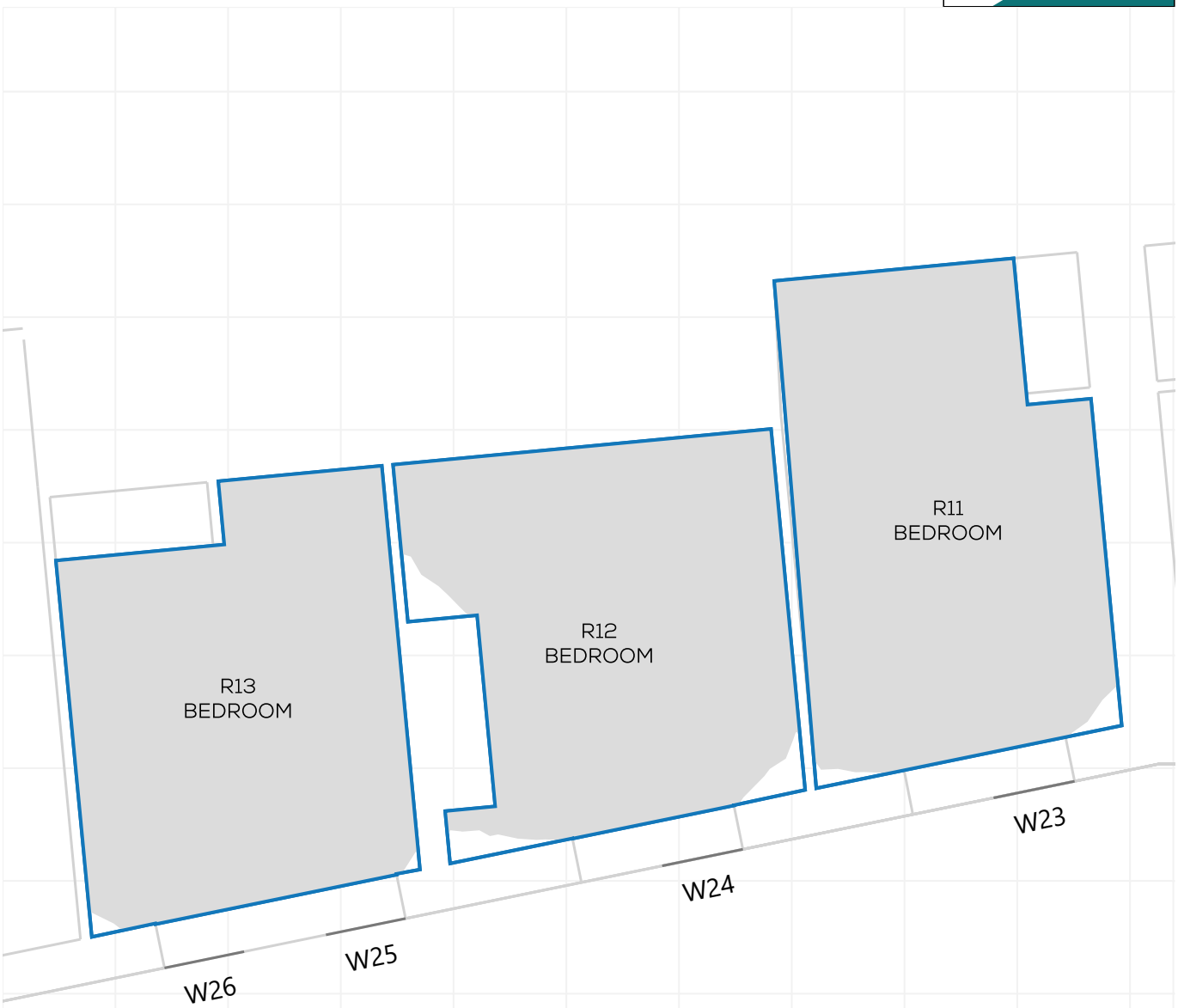
F51

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F51	R6	RESIDENTIAL	LKD	39.3	100	100	0.0	0
F51	R7	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F51	R8	RESIDENTIAL	BEDROOM	10.3	99	99	0.0	0
F51	R9	RESIDENTIAL	BEDROOM	9.5	96	96	0.0	0
F51	R10	RESIDENTIAL	BEDROOM	11.2	97.8	97.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD364

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



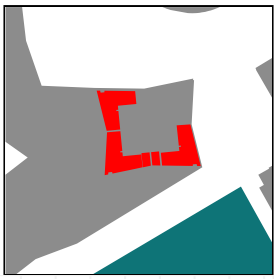
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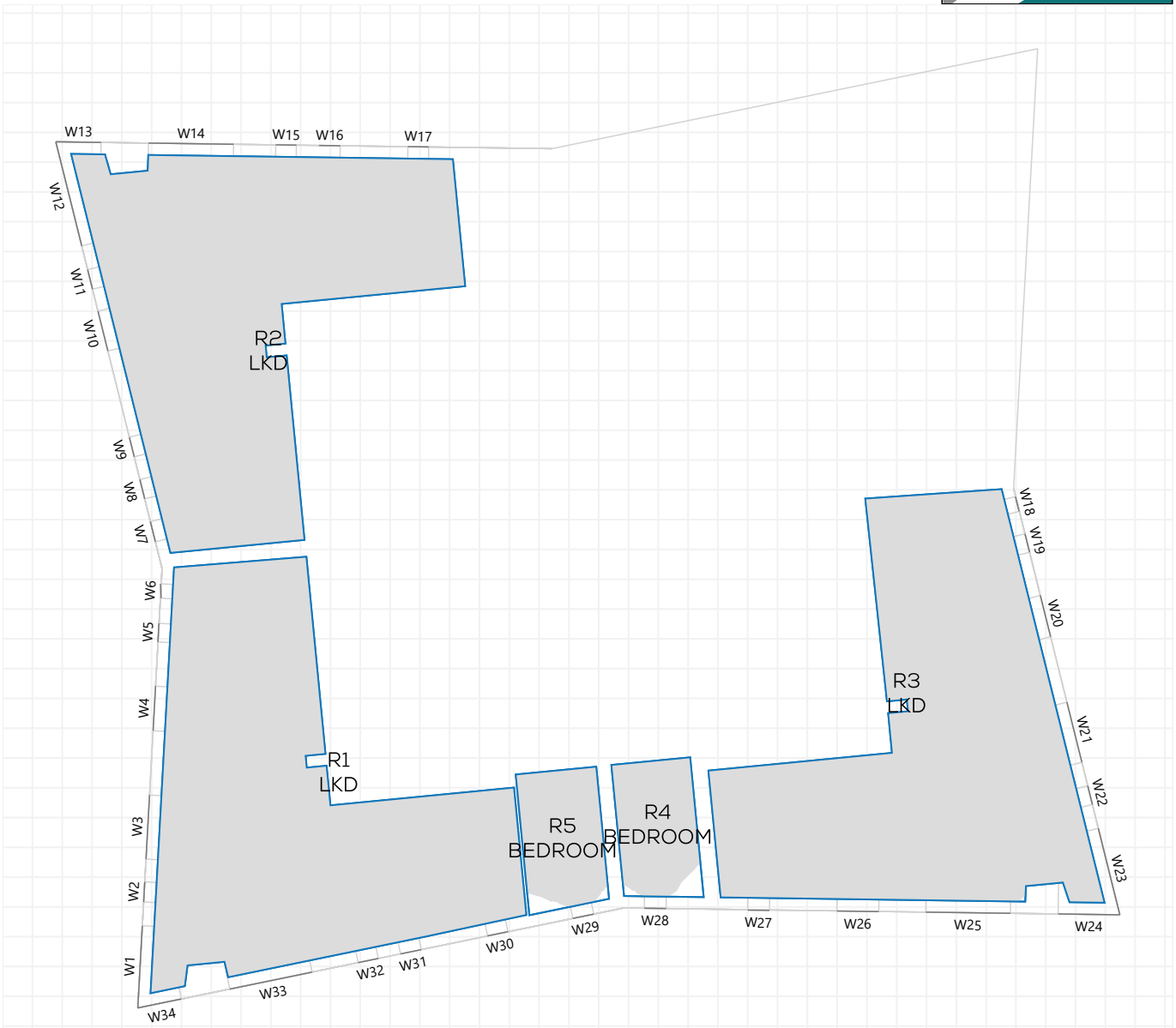
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F51	R11	RESIDENTIAL	BEDROOM	11.1	98.7	98.7	0.0	0
F51	R12	RESIDENTIAL	BEDROOM	10.3	95.6	95.6	0.0	0
F51	R13	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD365

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





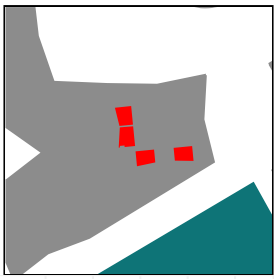
F52

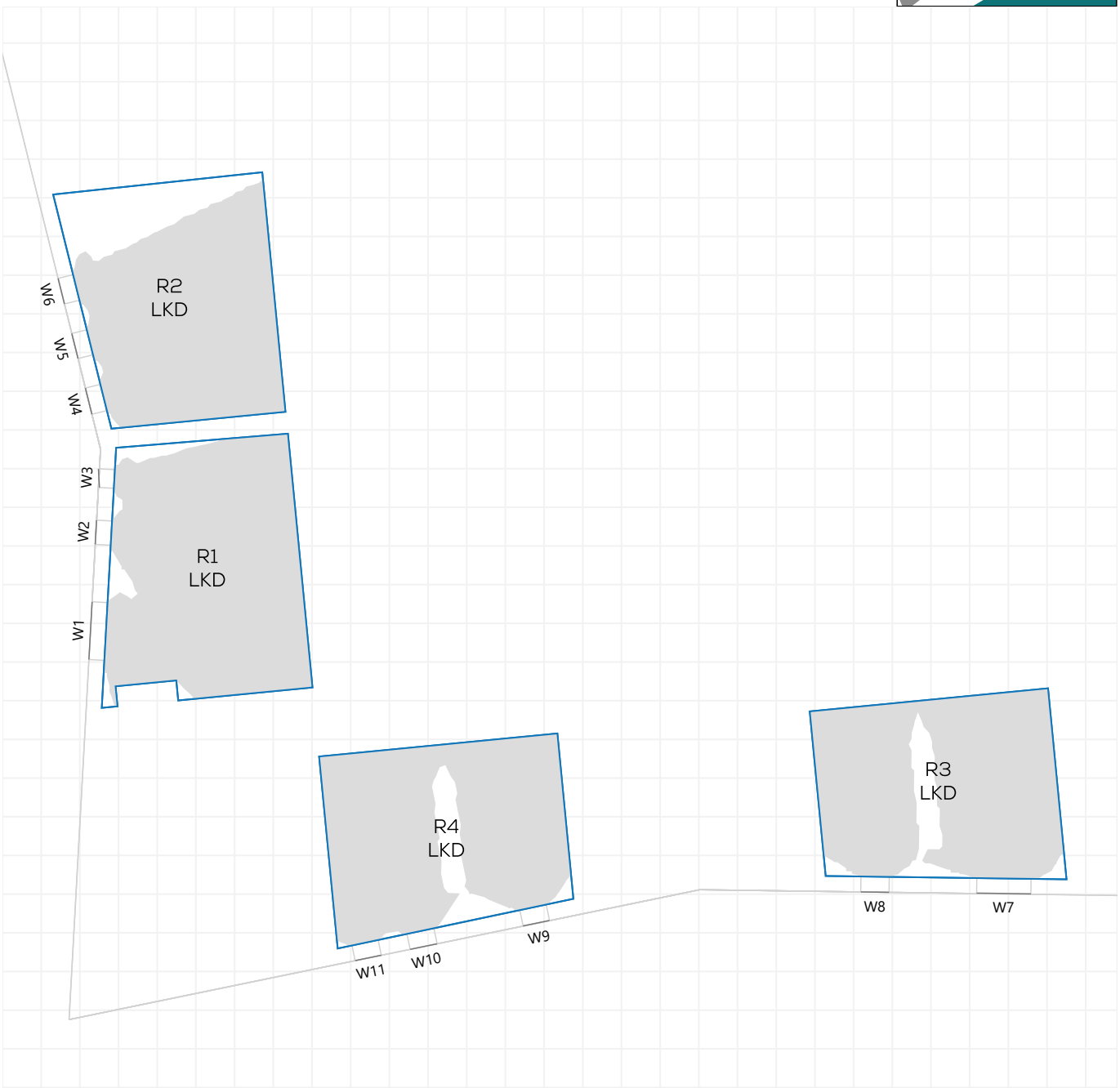
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F52	R1	RESIDENTIAL	LKD	103.5	100	100	0.0	0
F52	R2	RESIDENTIAL	LKD	100.7	100	100	0.0	0
F52	R3	RESIDENTIAL	LKD	104.3	100	100	0.0	0
F52	R4	RESIDENTIAL	BEDROOM	12.1	93.6	93.6	0.0	0
F52	R5	RESIDENTIAL	BEDROOM	12.5	94.9	94.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE EAST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD366

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





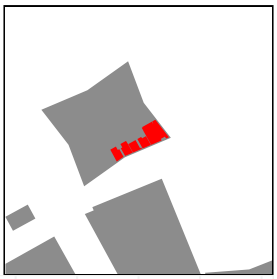
F53

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE EAST TOWER								
F53	R1	RESIDENTIAL	LKD	32.1	95	95	0.0	0
F53	R2	RESIDENTIAL	LKD	30.9	80.1	80.1	0.0	0
F53	R3	RESIDENTIAL	LKD	28.6	90.2	90.2	0.0	0
F53	R4	RESIDENTIAL	LKD	28.7	89.7	89.7	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD367

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F00	R1	RESIDENTIAL	LKD	39.4	99.6	99.6	0.0	0
F00	R2	RESIDENTIAL	BEDROOM	10.3	66.6	63.1	0.4	5.2
F00	R3	RESIDENTIAL	BEDROOM	9.5	46.1	43.4	0.3	5.9
F00	R4	RESIDENTIAL	BEDROOM	11.2	35.6	32.7	0.3	8.2
F00	R5	RESIDENTIAL	BEDROOM	11.1	34	31.7	0.3	6.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD368

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



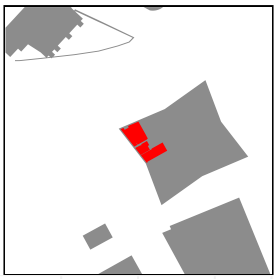
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F00	R6	RESIDENTIAL	BEDROOM	10.3	32	29.5	0.3	7.7
F00	R7	RESIDENTIAL	BEDROOM	10.3	46.5	45.3	0.1	2.5
F00	R8	RESIDENTIAL	LKD	39.1	97.4	96.8	0.2	0.7
F00	R9	RESIDENTIAL	BEDROOM	11.9	97.6	97.6	0.0	0
F00	R10	RESIDENTIAL	LKD	25.0	94.7	94.6	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD369

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F00	R11	RESIDENTIAL	LKD	25.1	94.2	94	0.0	0.2
F00	R12	RESIDENTIAL	BEDROOM	11.9	97.5	96.7	0.1	0.9
F00	R13	RESIDENTIAL	LKD	39.3	99.5	99.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD370

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F01	R1	RESIDENTIAL	LKD	39.4	99.7	99.7	0.0	0
F01	R2	RESIDENTIAL	BEDROOM	10.3	76	76	0.0	0
F01	R3	RESIDENTIAL	BEDROOM	9.5	57.8	57	0.1	1.4
F01	R4	RESIDENTIAL	BEDROOM	11.2	51.9	50.4	0.2	3
F01	R5	RESIDENTIAL	BEDROOM	11.1	50.5	50.1	0.0	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD371

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



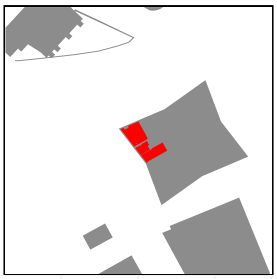
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F01	R6	RESIDENTIAL	BEDROOM	10.3	62.7	61.2	0.2	2.5
F01	R7	RESIDENTIAL	BEDROOM	10.3	82.3	77	0.5	6.4
F01	R8	RESIDENTIAL	LKD	39.1	97.5	96.9	0.2	0.6
F01	R9	RESIDENTIAL	BEDROOM	11.9	97.7	97.7	0.0	0
F01	R10	RESIDENTIAL	LKD	25.0	94.9	94.8	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD372

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F01	R11	RESIDENTIAL	LKD	25.1	94.3	94.2	0.0	0.2
F01	R12	RESIDENTIAL	BEDROOM	11.9	97.6	96.9	0.1	0.7
F01	R13	RESIDENTIAL	LKD	39.3	99.8	99.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD373

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F02	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F02	R2	RESIDENTIAL	BEDROOM	10.3	76.2	76.2	0.0	0
F02	R3	RESIDENTIAL	BEDROOM	9.5	58.2	57.7	0.0	0.8
F02	R4	RESIDENTIAL	BEDROOM	11.2	55.2	53.8	0.2	2.5
F02	R5	RESIDENTIAL	BEDROOM	11.1	50.8	50.4	0.0	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD374

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



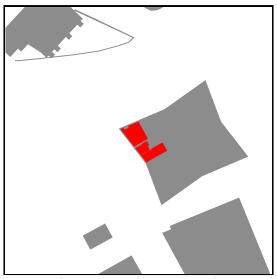
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F02	R6	RESIDENTIAL	BEDROOM	10.3	63.7	62.3	0.1	2.2
F02	R7	RESIDENTIAL	BEDROOM	10.3	92.9	85.8	0.7	7.7
F02	R8	RESIDENTIAL	LKD	39.1	98.7	98.6	0.1	0.1
F02	R9	RESIDENTIAL	BEDROOM	11.9	97.7	97.7	0.0	0
F02	R10	RESIDENTIAL	LKD	25.0	94.9	94.8	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD375

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F02	R11	RESIDENTIAL	LKD	25.1	94.5	94.3	0.0	0.2
F02	R12	RESIDENTIAL	BEDROOM	11.9	97.7	96.9	0.1	0.8
F02	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD376

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F03	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F03	R2	RESIDENTIAL	BEDROOM	10.3	76.3	76.3	0.0	0
F03	R3	RESIDENTIAL	BEDROOM	9.5	58.3	57.8	0.0	0.8
F03	R4	RESIDENTIAL	BEDROOM	11.2	55.4	54.1	0.2	2.5
F03	R5	RESIDENTIAL	BEDROOM	11.1	50.9	50.5	0.0	0.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD377

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



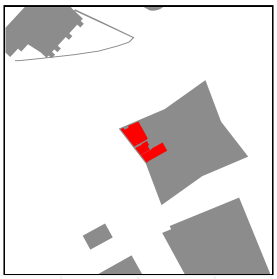
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F03	R6	RESIDENTIAL	BEDROOM	10.3	63.9	62.6	0.1	2.1
F03	R7	RESIDENTIAL	BEDROOM	10.3	93.2	86.1	0.7	7.5
F03	R8	RESIDENTIAL	LKD	39.1	98.8	98.8	0.0	0
F03	R9	RESIDENTIAL	BEDROOM	11.9	97.7	97.7	0.0	0
F03	R10	RESIDENTIAL	LKD	25.0	95.1	94.9	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD378

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F03	R11	RESIDENTIAL	LKD	25.1	94.7	94.5	0.0	0.2
F03	R12	RESIDENTIAL	BEDROOM	11.9	98.1	97.1	0.1	1.1
F03	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD379

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F04	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F04	R2	RESIDENTIAL	BEDROOM	10.3	76.4	76.4	0.0	0
F04	R3	RESIDENTIAL	BEDROOM	9.5	58.3	57.8	0.0	0.8
F04	R4	RESIDENTIAL	BEDROOM	11.2	55.7	54.2	0.2	2.6
F04	R5	RESIDENTIAL	BEDROOM	11.1	50.9	50.7	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD380

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



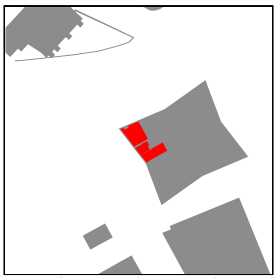
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F04	R6	RESIDENTIAL	BEDROOM	10.3	64.1	62.9	0.1	1.9
F04	R7	RESIDENTIAL	BEDROOM	10.3	93.3	86.4	0.7	7.5
F04	R8	RESIDENTIAL	LKD	39.1	98.8	98.8	0.0	0
F04	R9	RESIDENTIAL	BEDROOM	11.9	97.8	97.8	0.0	0
F04	R10	RESIDENTIAL	LKD	25.0	95.2	95	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD381

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F04	R11	RESIDENTIAL	LKD	25.1	94.9	94.7	0.1	0.2
F04	R12	RESIDENTIAL	BEDROOM	11.9	98.2	97.1	0.1	1.1
F04	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD382

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F05	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F05	R2	RESIDENTIAL	BEDROOM	10.3	76.4	76.4	0.0	0
F05	R3	RESIDENTIAL	BEDROOM	9.5	58.3	57.8	0.0	0.8
F05	R4	RESIDENTIAL	BEDROOM	11.2	55.7	54.5	0.1	2.2
F05	R5	RESIDENTIAL	BEDROOM	11.1	50.9	50.7	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD383

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



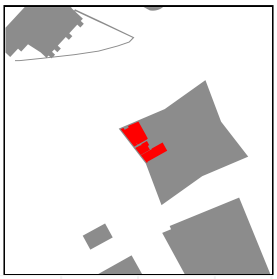
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F05	R6	RESIDENTIAL	BEDROOM	10.3	64.3	63	0.1	2
F05	R7	RESIDENTIAL	BEDROOM	10.3	93.5	86.6	0.7	7.3
F05	R8	RESIDENTIAL	LKD	39.1	98.8	98.8	0.0	0
F05	R9	RESIDENTIAL	BEDROOM	11.9	97.8	97.8	0.0	0
F05	R10	RESIDENTIAL	LKD	25.0	95.2	95.1	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD384

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F05	R11	RESIDENTIAL	LKD	25.1	95	94.7	0.1	0.3
F05	R12	RESIDENTIAL	BEDROOM	11.9	98.4	97.2	0.1	1.2
F05	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD385

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F06	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F06	R2	RESIDENTIAL	BEDROOM	10.3	88	81	0.7	7.9
F06	R3	RESIDENTIAL	BEDROOM	9.5	64.6	59	0.5	8.7
F06	R4	RESIDENTIAL	BEDROOM	11.2	63.7	56.7	0.8	11
F06	R5	RESIDENTIAL	BEDROOM	11.1	56.5	51.3	0.6	9.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD386

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F06	R6	RESIDENTIAL	BEDROOM	10.3	57.1	48.8	0.9	14.6
F06	R7	RESIDENTIAL	BEDROOM	10.3	84	81.2	0.3	3.3
F06	R8	RESIDENTIAL	LKD	39.1	98.8	98.8	0.0	0
F06	R9	RESIDENTIAL	BEDROOM	11.9	90.9	90.9	0.0	0
F06	R10	RESIDENTIAL	LKD	25.0	94.8	94.5	0.1	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD387

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F06	R11	RESIDENTIAL	LKD	25.1	90.4	89.4	0.2	1.1
F06	R12	RESIDENTIAL	BEDROOM	11.9	98.5	97.2	0.2	1.4
F06	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD388

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F07	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F07	R2	RESIDENTIAL	BEDROOM	10.3	76.4	76.4	0.0	0
F07	R3	RESIDENTIAL	BEDROOM	9.5	58.5	58.4	0.0	0.2
F07	R4	RESIDENTIAL	BEDROOM	11.2	55.8	54.9	0.1	1.6
F07	R5	RESIDENTIAL	BEDROOM	11.1	50.9	50.8	0.0	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD389

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



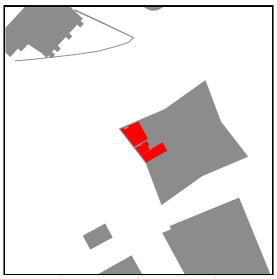
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F07	R6	RESIDENTIAL	BEDROOM	10.3	64.3	63.2	0.1	1.7
F07	R7	RESIDENTIAL	BEDROOM	10.3	94.2	87.3	0.7	7.3
F07	R8	RESIDENTIAL	LKD	39.1	98.8	98.8	0.0	0
F07	R9	RESIDENTIAL	BEDROOM	11.9	97.9	97.9	0.0	0
F07	R10	RESIDENTIAL	LKD	25.0	95.2	95	0.1	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD390

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F07	R11	RESIDENTIAL	LKD	25.1	95.4	94.7	0.2	0.8
F07	R12	RESIDENTIAL	BEDROOM	11.9	98.6	97.2	0.2	1.5
F07	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD391

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F08	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F08	R2	RESIDENTIAL	BEDROOM	10.3	88	82	0.6	6.9
F08	R3	RESIDENTIAL	BEDROOM	9.5	65	59.7	0.5	8.1
F08	R4	RESIDENTIAL	BEDROOM	11.2	64.8	58.1	0.8	10.4
F08	R5	RESIDENTIAL	BEDROOM	11.1	57.1	52.3	0.5	8.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD392

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F08	R6	RESIDENTIAL	BEDROOM	10.3	58.5	50.6	0.8	13.6
F08	R7	RESIDENTIAL	BEDROOM	10.3	84.8	82.1	0.3	3.2
F08	R8	RESIDENTIAL	LKD	39.1	98.8	98.8	0.0	0
F08	R9	RESIDENTIAL	BEDROOM	11.9	91.4	91.4	0.0	0
F08	R10	RESIDENTIAL	LKD	25.0	95	94.7	0.1	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD393

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F08	R11	RESIDENTIAL	LKD	25.1	91	89.5	0.4	1.7
F08	R12	RESIDENTIAL	BEDROOM	11.9	98.7	97.3	0.2	1.4
F08	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD394

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F09	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F09	R2	RESIDENTIAL	BEDROOM	10.3	76.5	76.5	0.0	0
F09	R3	RESIDENTIAL	BEDROOM	9.5	58.7	58.6	0.0	0.2
F09	R4	RESIDENTIAL	BEDROOM	11.2	55.9	55.4	0.1	0.9
F09	R5	RESIDENTIAL	BEDROOM	11.1	51	50.8	0.0	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD395

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



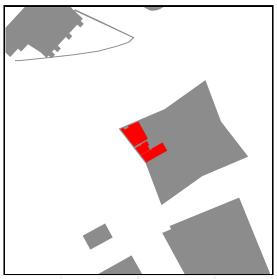
F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F09	R6	RESIDENTIAL	BEDROOM	10.3	64.3	63.4	0.1	1.4
F09	R7	RESIDENTIAL	BEDROOM	10.3	94.2	88.8	0.6	5.8
F09	R8	RESIDENTIAL	LKD	39.1	98.8	98.8	0.0	0
F09	R9	RESIDENTIAL	BEDROOM	11.9	97.9	97.9	0.0	0
F09	R10	RESIDENTIAL	LKD	25.0	95.6	95.3	0.1	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD396

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F09	R11	RESIDENTIAL	LKD	25.1	95.9	94.7	0.3	1.3
F09	R12	RESIDENTIAL	BEDROOM	11.9	98.8	97.4	0.2	1.4
F09	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD397

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F10	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F10	R2	RESIDENTIAL	BEDROOM	10.3	89.4	83.2	0.6	6.9
F10	R3	RESIDENTIAL	BEDROOM	9.5	66.1	61.1	0.5	7.6
F10	R4	RESIDENTIAL	BEDROOM	11.2	66.1	59.5	0.7	10
F10	R5	RESIDENTIAL	BEDROOM	11.1	57.6	53.4	0.5	7.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD398

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F10	R6	RESIDENTIAL	BEDROOM	10.3	59.4	52.3	0.7	12
F10	R7	RESIDENTIAL	BEDROOM	10.3	85.3	83.1	0.2	2.6
F10	R8	RESIDENTIAL	LKD	39.1	98.8	98.8	0.0	0
F10	R9	RESIDENTIAL	BEDROOM	11.9	91.7	91.7	0.0	0
F10	R10	RESIDENTIAL	LKD	25.0	95.1	94.8	0.1	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD399

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F10	R11	RESIDENTIAL	LKD	25.1	91.4	89.4	0.5	2.1
F10	R12	RESIDENTIAL	BEDROOM	11.9	98.8	97.6	0.1	1.2
F10	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD400

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F11

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F11	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F11	R2	RESIDENTIAL	BEDROOM	10.3	76.6	76.6	0.0	0
F11	R3	RESIDENTIAL	BEDROOM	9.5	58.8	58.7	0.0	0.2
F11	R4	RESIDENTIAL	BEDROOM	11.2	56.2	55.7	0.0	0.8
F11	R5	RESIDENTIAL	BEDROOM	11.1	51.1	51	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD401

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



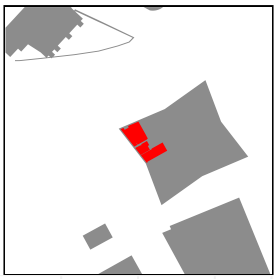
F11

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F11	R6	RESIDENTIAL	BEDROOM	10.3	64.5	63.6	0.1	1.4
F11	R7	RESIDENTIAL	BEDROOM	10.3	94.5	89.3	0.5	5.5
F11	R8	RESIDENTIAL	LKD	39.1	98.8	98.8	0.0	0
F11	R9	RESIDENTIAL	BEDROOM	11.9	97.9	97.9	0.0	0
F11	R10	RESIDENTIAL	LKD	25.0	95.7	95.5	0.1	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD402

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F11

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F11	R11	RESIDENTIAL	LKD	25.1	96.2	94.8	0.4	1.5
F11	R12	RESIDENTIAL	BEDROOM	11.9	98.8	97.8	0.1	1
F11	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD403

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F12	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F12	R2	RESIDENTIAL	BEDROOM	10.3	89.6	84.6	0.5	5.5
F12	R3	RESIDENTIAL	BEDROOM	9.5	66.6	62.3	0.4	6.4
F12	R4	RESIDENTIAL	BEDROOM	11.2	68.8	62	0.8	9.9
F12	R5	RESIDENTIAL	BEDROOM	11.1	58.1	54.6	0.4	6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD404

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F12	R6	RESIDENTIAL	BEDROOM	10.3	60.1	53.9	0.6	10.2
F12	R7	RESIDENTIAL	BEDROOM	10.3	85.6	84.3	0.1	1.6
F12	R8	RESIDENTIAL	LKD	39.1	98.9	98.8	0.0	0
F12	R9	RESIDENTIAL	BEDROOM	11.9	92.2	92.2	0.0	0
F12	R10	RESIDENTIAL	LKD	25.0	95.2	95	0.1	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD405

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F12	R11	RESIDENTIAL	LKD	25.1	91.7	89.7	0.5	2.2
F12	R12	RESIDENTIAL	BEDROOM	11.9	99	97.9	0.1	1.1
F12	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD406

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F13	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F13	R2	RESIDENTIAL	BEDROOM	10.3	76.9	76.9	0.0	0
F13	R3	RESIDENTIAL	BEDROOM	9.5	59.2	59.1	0.0	0.2
F13	R4	RESIDENTIAL	BEDROOM	11.2	56.5	56	0.0	0.7
F13	R5	RESIDENTIAL	BEDROOM	11.1	51.3	51.2	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD407

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



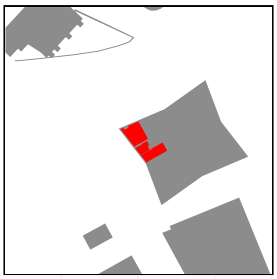
F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F13	R6	RESIDENTIAL	BEDROOM	10.3	64.6	63.7	0.1	1.4
F13	R7	RESIDENTIAL	BEDROOM	10.3	95.4	89.7	0.6	6
F13	R8	RESIDENTIAL	LKD	39.1	98.9	98.8	0.0	0
F13	R9	RESIDENTIAL	BEDROOM	11.9	97.9	97.9	0.0	0
F13	R10	RESIDENTIAL	LKD	25.0	95.8	95.6	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD408

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F13	R11	RESIDENTIAL	LKD	25.1	96.3	95.1	0.3	1.3
F13	R12	RESIDENTIAL	BEDROOM	11.9	99	98.1	0.1	0.9
F13	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD409

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F14	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F14	R2	RESIDENTIAL	BEDROOM	10.3	89.6	85.8	0.4	4.3
F14	R3	RESIDENTIAL	BEDROOM	9.5	67.4	63.7	0.4	5.5
F14	R4	RESIDENTIAL	BEDROOM	11.2	69.8	63.9	0.7	8.4
F14	R5	RESIDENTIAL	BEDROOM	11.1	58.5	55.4	0.3	5.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD410

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



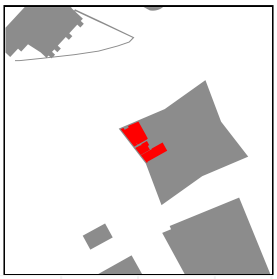
F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F14	R6	RESIDENTIAL	BEDROOM	10.3	61.2	55.6	0.6	9.1
F14	R7	RESIDENTIAL	BEDROOM	10.3	86	85.6	0.0	0.5
F14	R8	RESIDENTIAL	LKD	39.1	98.9	98.9	0.0	0
F14	R9	RESIDENTIAL	BEDROOM	11.9	93	93	0.0	0
F14	R10	RESIDENTIAL	LKD	25.0	95.2	95	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD411

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F14	R11	RESIDENTIAL	LKD	25.1	91.8	89.9	0.5	2
F14	R12	RESIDENTIAL	BEDROOM	11.9	99	98.4	0.1	0.7
F14	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD412

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F15	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F15	R2	RESIDENTIAL	BEDROOM	10.3	77.1	77.1	0.0	0
F15	R3	RESIDENTIAL	BEDROOM	9.5	59.7	59.6	0.0	0.2
F15	R4	RESIDENTIAL	BEDROOM	11.2	56.8	56.4	0.0	0.7
F15	R5	RESIDENTIAL	BEDROOM	11.1	51.5	51.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD413

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



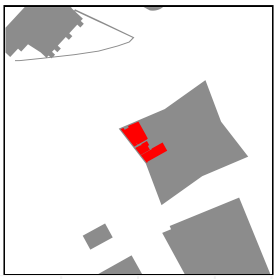
F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F15	R6	RESIDENTIAL	BEDROOM	10.3	65	64.2	0.1	1.3
F15	R7	RESIDENTIAL	BEDROOM	10.3	95.4	90	0.6	5.7
F15	R8	RESIDENTIAL	LKD	39.1	98.9	98.9	0.0	0
F15	R9	RESIDENTIAL	BEDROOM	11.9	98	98	0.0	0
F15	R10	RESIDENTIAL	LKD	25.0	96	95.8	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD414

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F15	R11	RESIDENTIAL	LKD	25.1	96.1	94.8	0.3	1.4
F15	R12	RESIDENTIAL	BEDROOM	11.9	99.1	98.7	0.1	0.4
F15	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD415

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F16	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F16	R2	RESIDENTIAL	BEDROOM	10.3	89.7	86.3	0.4	3.9
F16	R3	RESIDENTIAL	BEDROOM	9.5	69	65.4	0.3	5.1
F16	R4	RESIDENTIAL	BEDROOM	11.2	70.8	65.4	0.6	7.6
F16	R5	RESIDENTIAL	BEDROOM	11.1	59.5	56.5	0.3	5.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD416

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F16	R6	RESIDENTIAL	BEDROOM	10.3	62	56.8	0.5	8.4
F16	R7	RESIDENTIAL	BEDROOM	10.3	86.3	86.2	0.0	0
F16	R8	RESIDENTIAL	LKD	39.1	98.9	98.9	0.0	0
F16	R9	RESIDENTIAL	BEDROOM	11.9	93.8	93.8	0.0	0
F16	R10	RESIDENTIAL	LKD	25.0	95.8	95.6	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD417

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F16	R11	RESIDENTIAL	LKD	25.1	91.8	90.1	0.4	1.8
F16	R12	RESIDENTIAL	BEDROOM	11.9	99.2	99	0.0	0.2
F16	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD418

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F17	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F17	R2	RESIDENTIAL	BEDROOM	10.3	77.2	77.2	0.0	0
F17	R3	RESIDENTIAL	BEDROOM	9.5	60	59.9	0.0	0.2
F17	R4	RESIDENTIAL	BEDROOM	11.2	57.5	57.1	0.0	0.7
F17	R5	RESIDENTIAL	BEDROOM	11.1	51.9	51.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD419

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



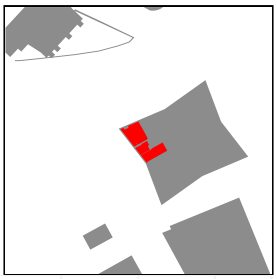
F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F17	R6	RESIDENTIAL	BEDROOM	10.3	65.6	65.1	0.1	0.9
F17	R7	RESIDENTIAL	BEDROOM	10.3	95.4	90.1	0.6	5.6
F17	R8	RESIDENTIAL	LKD	39.1	98.9	98.9	0.0	0
F17	R9	RESIDENTIAL	BEDROOM	11.9	98	98	0.0	0
F17	R10	RESIDENTIAL	LKD	25.0	96	95.9	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD420

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





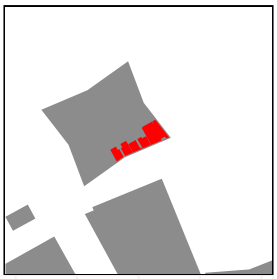
F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F17	R11	RESIDENTIAL	LKD	25.1	96.2	95.3	0.2	0.9
F17	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F17	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD421

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F18	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F18	R2	RESIDENTIAL	BEDROOM	10.3	89.7	86.4	0.3	3.7
F18	R3	RESIDENTIAL	BEDROOM	9.5	70	66.4	0.3	5
F18	R4	RESIDENTIAL	BEDROOM	11.2	73.2	68	0.6	7.1
F18	R5	RESIDENTIAL	BEDROOM	11.1	60.1	57.1	0.3	4.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD422

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



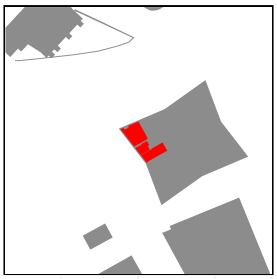
F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F18	R6	RESIDENTIAL	BEDROOM	10.3	63.5	58.3	0.5	8.1
F18	R7	RESIDENTIAL	BEDROOM	10.3	86.3	86.3	0.0	0
F18	R8	RESIDENTIAL	LKD	39.1	98.9	98.9	0.0	0
F18	R9	RESIDENTIAL	BEDROOM	11.9	95.2	95.2	0.0	0
F18	R10	RESIDENTIAL	LKD	25.0	96.2	96.1	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD423

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F18	R11	RESIDENTIAL	LKD	25.1	91.8	90.5	0.3	1.4
F18	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F18	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD424

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F19	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F19	R2	RESIDENTIAL	BEDROOM	10.3	77.3	77.3	0.0	0
F19	R3	RESIDENTIAL	BEDROOM	9.5	60.5	60.5	0.0	0
F19	R4	RESIDENTIAL	BEDROOM	11.2	57.9	57.5	0.0	0.7
F19	R5	RESIDENTIAL	BEDROOM	11.1	52.4	52.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD425

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



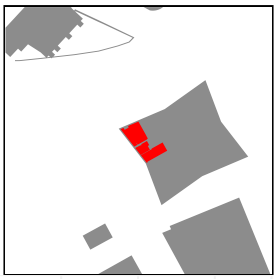
F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F19	R6	RESIDENTIAL	BEDROOM	10.3	66.2	65.7	0.0	0.7
F19	R7	RESIDENTIAL	BEDROOM	10.3	95.4	90.1	0.5	5.6
F19	R8	RESIDENTIAL	LKD	39.1	98.9	98.9	0.0	0
F19	R9	RESIDENTIAL	BEDROOM	11.9	98	98	0.0	0
F19	R10	RESIDENTIAL	LKD	25.0	96	96	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD426

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F19	R11	RESIDENTIAL	LKD	25.1	96.3	95.8	0.1	0.5
F19	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F19	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD427

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F20	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F20	R2	RESIDENTIAL	BEDROOM	10.3	89.7	86.5	0.3	3.6
F20	R3	RESIDENTIAL	BEDROOM	9.5	71.3	67.8	0.3	5
F20	R4	RESIDENTIAL	BEDROOM	11.2	74.2	69	0.6	7
F20	R5	RESIDENTIAL	BEDROOM	11.1	60.6	57.7	0.3	4.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD428

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F20	R6	RESIDENTIAL	BEDROOM	10.3	65	60.1	0.5	7.5
F20	R7	RESIDENTIAL	BEDROOM	10.3	86.3	86.3	0.0	0
F20	R8	RESIDENTIAL	LKD	39.1	99.3	98.9	0.1	0.3
F20	R9	RESIDENTIAL	BEDROOM	11.9	96.8	96.8	0.0	0
F20	R10	RESIDENTIAL	LKD	25.0	97.1	97	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD429

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F20	R11	RESIDENTIAL	LKD	25.1	92.1	91.4	0.2	0.7
F20	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F20	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD430

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F21	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F21	R2	RESIDENTIAL	BEDROOM	10.3	77.4	77.4	0.0	0
F21	R3	RESIDENTIAL	BEDROOM	9.5	61.5	61.5	0.0	0
F21	R4	RESIDENTIAL	BEDROOM	11.2	58.7	58.4	0.0	0.6
F21	R5	RESIDENTIAL	BEDROOM	11.1	53	53	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD431

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



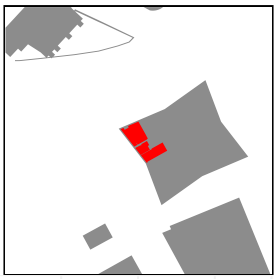
F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F21	R6	RESIDENTIAL	BEDROOM	10.3	67	66.7	0.0	0.4
F21	R7	RESIDENTIAL	BEDROOM	10.3	95.4	90.2	0.5	5.5
F21	R8	RESIDENTIAL	LKD	39.1	99.8	98.9	0.4	0.9
F21	R9	RESIDENTIAL	BEDROOM	11.9	98.1	98.1	0.0	0
F21	R10	RESIDENTIAL	LKD	25.0	95.9	95.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD432

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F21	R11	RESIDENTIAL	LKD	25.1	96.3	96.3	0.0	0
F21	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F21	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD433

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F22

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F22	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F22	R2	RESIDENTIAL	BEDROOM	10.3	89.7	86.6	0.3	3.5
F22	R3	RESIDENTIAL	BEDROOM	9.5	72.4	69	0.3	4.8
F22	R4	RESIDENTIAL	BEDROOM	11.2	75.1	70	0.6	6.9
F22	R5	RESIDENTIAL	BEDROOM	11.1	61.8	59.1	0.3	4.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD434

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



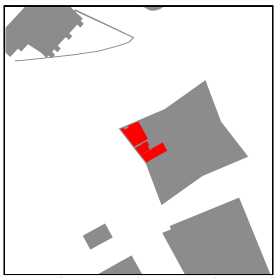
F22

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F22	R6	RESIDENTIAL	BEDROOM	10.3	66.4	61.6	0.5	7.2
F22	R7	RESIDENTIAL	BEDROOM	10.3	86.4	86.4	0.0	0
F22	R8	RESIDENTIAL	LKD	39.1	99.9	98.9	0.4	0.9
F22	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F22	R10	RESIDENTIAL	LKD	25.0	97.1	97.1	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD435

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F22

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F22	R11	RESIDENTIAL	LKD	25.1	92.9	92.7	0.0	0.2
F22	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F22	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD436

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F23

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F23	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F23	R2	RESIDENTIAL	BEDROOM	10.3	77.6	77.6	0.0	0
F23	R3	RESIDENTIAL	BEDROOM	9.5	62.6	62.6	0.0	0
F23	R4	RESIDENTIAL	BEDROOM	11.2	59.7	59.5	0.0	0.3
F23	R5	RESIDENTIAL	BEDROOM	11.1	54.1	54.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD437

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



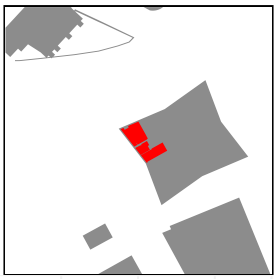
F23

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F23	R6	RESIDENTIAL	BEDROOM	10.3	68.1	68	0.0	0.1
F23	R7	RESIDENTIAL	BEDROOM	10.3	95.4	90.4	0.5	5.3
F23	R8	RESIDENTIAL	LKD	39.1	99.9	98.9	0.4	0.9
F23	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F23	R10	RESIDENTIAL	LKD	25.0	95.8	95.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD438

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F23

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F23	R11	RESIDENTIAL	LKD	25.1	96.3	96.3	0.0	0
F23	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F23	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD439

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F24	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F24	R2	RESIDENTIAL	BEDROOM	10.3	89.8	86.6	0.3	3.5
F24	R3	RESIDENTIAL	BEDROOM	9.5	73.8	70.8	0.3	4.1
F24	R4	RESIDENTIAL	BEDROOM	11.2	76.4	71.3	0.6	6.7
F24	R5	RESIDENTIAL	BEDROOM	11.1	63	60.6	0.3	3.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD440

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F24	R6	RESIDENTIAL	BEDROOM	10.3	68.2	63.7	0.5	6.6
F24	R7	RESIDENTIAL	BEDROOM	10.3	86.8	86.8	0.0	0
F24	R8	RESIDENTIAL	LKD	39.1	99.9	99	0.4	0.9
F24	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F24	R10	RESIDENTIAL	LKD	25.0	97.1	97.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD441

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F24	R11	RESIDENTIAL	LKD	25.1	94	94	0.0	0
F24	R12	RESIDENTIAL	BEDROOM	11.9	99.4	99.4	0.0	0
F24	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD442

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F25	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F25	R2	RESIDENTIAL	BEDROOM	10.3	77.8	77.8	0.0	0
F25	R3	RESIDENTIAL	BEDROOM	9.5	64.8	64.8	0.0	0
F25	R4	RESIDENTIAL	BEDROOM	11.2	61.4	61.3	0.0	0
F25	R5	RESIDENTIAL	BEDROOM	11.1	55.8	55.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD443

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



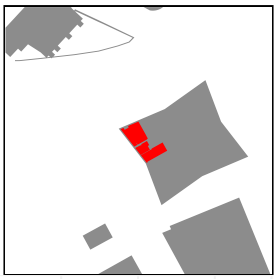
F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F25	R6	RESIDENTIAL	BEDROOM	10.3	69.9	69.9	0.0	0
F25	R7	RESIDENTIAL	BEDROOM	10.3	95.4	90.6	0.5	5
F25	R8	RESIDENTIAL	LKD	39.1	99.9	99	0.3	0.9
F25	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F25	R10	RESIDENTIAL	LKD	25.0	95.9	95.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD444

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F25	R11	RESIDENTIAL	LKD	25.1	96.4	96.4	0.0	0
F25	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F25	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD445

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F26	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F26	R2	RESIDENTIAL	BEDROOM	10.3	89.7	86.7	0.3	3.4
F26	R3	RESIDENTIAL	BEDROOM	9.5	76.1	73.3	0.3	3.7
F26	R4	RESIDENTIAL	BEDROOM	11.2	78.1	73.3	0.5	6
F26	R5	RESIDENTIAL	BEDROOM	11.1	65.4	63.6	0.2	2.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD446

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F26	R6	RESIDENTIAL	BEDROOM	10.3	70.8	66.8	0.4	5.7
F26	R7	RESIDENTIAL	BEDROOM	10.3	88.2	88.2	0.0	0
F26	R8	RESIDENTIAL	LKD	39.1	99.9	99.1	0.3	0.8
F26	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F26	R10	RESIDENTIAL	LKD	25.0	97.1	97.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD447

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F26	R11	RESIDENTIAL	LKD	25.1	94	94	0.0	0
F26	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F26	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD448

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F27

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F27	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F27	R2	RESIDENTIAL	BEDROOM	10.3	78.9	78.9	0.0	0
F27	R3	RESIDENTIAL	BEDROOM	9.5	67.8	67.8	0.0	0
F27	R4	RESIDENTIAL	BEDROOM	11.2	64	64	0.0	0
F27	R5	RESIDENTIAL	BEDROOM	11.1	58.5	58.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD449

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



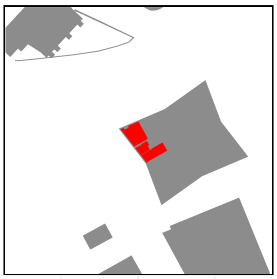
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F27	R6	RESIDENTIAL	BEDROOM	10.3	72.7	72.7	0.0	0
F27	R7	RESIDENTIAL	BEDROOM	10.3	95.4	91.3	0.4	4.3
F27	R8	RESIDENTIAL	LKD	39.1	99.9	99.1	0.3	0.7
F27	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F27	R10	RESIDENTIAL	LKD	25.0	95.8	95.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD450

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





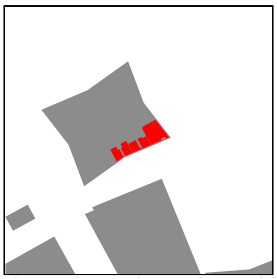
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F27	R11	RESIDENTIAL	LKD	25.1	96.5	96.5	0.0	0
F27	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F27	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD451

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F28	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F28	R2	RESIDENTIAL	BEDROOM	10.3	89.8	87.3	0.2	2.7
F28	R3	RESIDENTIAL	BEDROOM	9.5	79.6	77.2	0.2	3
F28	R4	RESIDENTIAL	BEDROOM	11.2	80.7	76.1	0.5	5.6
F28	R5	RESIDENTIAL	BEDROOM	11.1	68.5	67.3	0.1	1.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD452

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



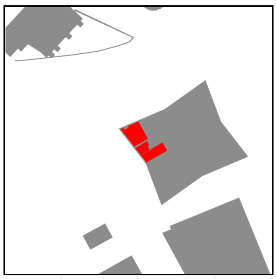
F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F28	R6	RESIDENTIAL	BEDROOM	10.3	73.8	70.5	0.3	4.5
F28	R7	RESIDENTIAL	BEDROOM	10.3	91.2	91.2	0.0	0
F28	R8	RESIDENTIAL	LKD	39.1	99.9	99.5	0.1	0.4
F28	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F28	R10	RESIDENTIAL	LKD	25.0	97.1	97.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD453

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F28	R11	RESIDENTIAL	LKD	25.1	94	94	0.0	0
F28	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F28	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD454

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F29

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F29	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F29	R2	RESIDENTIAL	BEDROOM	10.3	81.7	81.7	0.0	0
F29	R3	RESIDENTIAL	BEDROOM	9.5	72.9	72.9	0.0	0
F29	R4	RESIDENTIAL	BEDROOM	11.2	67.8	67.8	0.0	0
F29	R5	RESIDENTIAL	BEDROOM	11.1	62.1	62.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD455

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



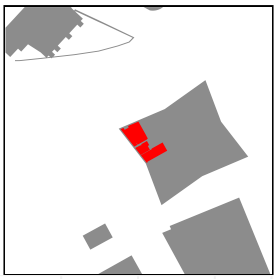
F29

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F29	R6	RESIDENTIAL	BEDROOM	10.3	77.6	77.6	0.0	0
F29	R7	RESIDENTIAL	BEDROOM	10.3	95.7	92.7	0.3	3.2
F29	R8	RESIDENTIAL	LKD	39.1	99.9	99.6	0.1	0.2
F29	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F29	R10	RESIDENTIAL	LKD	25.0	96.3	96.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD456

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F29

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F29	R11	RESIDENTIAL	LKD	25.1	96.5	96.5	0.0	0
F29	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F29	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD457

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F30	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F30	R2	RESIDENTIAL	BEDROOM	10.3	89.8	88.2	0.2	1.8
F30	R3	RESIDENTIAL	BEDROOM	9.5	84.7	83.5	0.1	1.5
F30	R4	RESIDENTIAL	BEDROOM	11.2	84	80.2	0.4	4.6
F30	R5	RESIDENTIAL	BEDROOM	11.1	73.3	73	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD458

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



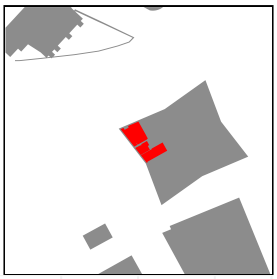
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F30	R6	RESIDENTIAL	BEDROOM	10.3	79.1	76.6	0.3	3.2
F30	R7	RESIDENTIAL	BEDROOM	10.3	95.7	95.7	0.0	0
F30	R8	RESIDENTIAL	LKD	39.1	99.9	99.7	0.1	0.2
F30	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F30	R10	RESIDENTIAL	LKD	25.0	97.1	97.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD459

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F30	R11	RESIDENTIAL	LKD	25.1	94	94	0.0	0
F30	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F30	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD460

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F31	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F31	R2	RESIDENTIAL	BEDROOM	10.3	87.5	87.5	0.0	0
F31	R3	RESIDENTIAL	BEDROOM	9.5	79.5	79.5	0.0	0
F31	R4	RESIDENTIAL	BEDROOM	11.2	73.8	73.8	0.0	0
F31	R5	RESIDENTIAL	BEDROOM	11.1	67.9	67.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD461

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



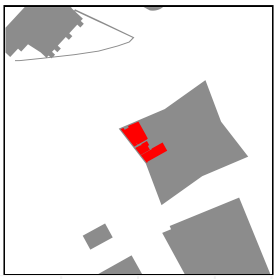
F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F31	R6	RESIDENTIAL	BEDROOM	10.3	84.5	84.5	0.0	0
F31	R7	RESIDENTIAL	BEDROOM	10.3	97.6	95.5	0.2	2.1
F31	R8	RESIDENTIAL	LKD	39.1	99.9	99.7	0.1	0.2
F31	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F31	R10	RESIDENTIAL	LKD	25.0	96.6	96.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD462

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F31	R11	RESIDENTIAL	LKD	25.1	96.6	96.6	0.0	0
F31	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F31	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD463

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F32	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F32	R2	RESIDENTIAL	BEDROOM	10.3	92.9	92.5	0.0	0.4
F32	R3	RESIDENTIAL	BEDROOM	9.5	93.1	92.4	0.1	0.7
F32	R4	RESIDENTIAL	BEDROOM	11.2	89.3	87	0.3	2.5
F32	R5	RESIDENTIAL	BEDROOM	11.1	80.2	80.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD464

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



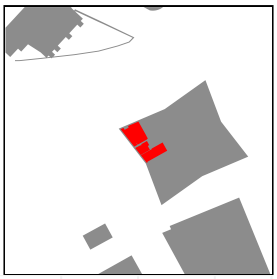
F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F32	R6	RESIDENTIAL	BEDROOM	10.3	86.5	85.3	0.1	1.4
F32	R7	RESIDENTIAL	BEDROOM	10.3	99.1	99.1	0.0	0
F32	R8	RESIDENTIAL	LKD	39.1	99.9	99.7	0.1	0.2
F32	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F32	R10	RESIDENTIAL	LKD	25.0	97.1	97.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD465

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F32	R11	RESIDENTIAL	LKD	25.1	94	94	0.0	0
F32	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F32	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD466

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F33	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F33	R2	RESIDENTIAL	BEDROOM	10.3	97.3	97.3	0.0	0
F33	R3	RESIDENTIAL	BEDROOM	9.5	89.4	89.4	0.0	0
F33	R4	RESIDENTIAL	BEDROOM	11.2	82.8	82.8	0.0	0
F33	R5	RESIDENTIAL	BEDROOM	11.1	77.3	77.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD467

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



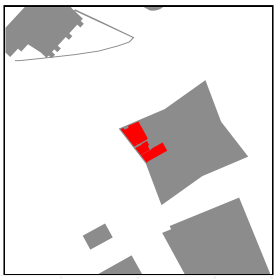
F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F33	R6	RESIDENTIAL	BEDROOM	10.3	91.2	91.2	0.0	0
F33	R7	RESIDENTIAL	BEDROOM	10.3	98.8	97.5	0.1	1.3
F33	R8	RESIDENTIAL	LKD	39.1	99.9	99.7	0.1	0.2
F33	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F33	R10	RESIDENTIAL	LKD	25.0	96.9	96.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD468

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F33	R11	RESIDENTIAL	LKD	25.1	97	97	0.0	0
F33	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F33	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD469

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F34	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F34	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F34	R3	RESIDENTIAL	BEDROOM	9.5	96.3	96.3	0.0	0
F34	R4	RESIDENTIAL	BEDROOM	11.2	91.9	90.9	0.1	1.1
F34	R5	RESIDENTIAL	BEDROOM	11.1	91.2	91.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD470

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



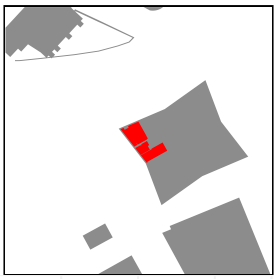
F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F34	R6	RESIDENTIAL	BEDROOM	10.3	89.4	89.4	0.0	0
F34	R7	RESIDENTIAL	BEDROOM	10.3	99.1	99.1	0.0	0
F34	R8	RESIDENTIAL	LKD	39.1	99.9	99.7	0.1	0.2
F34	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F34	R10	RESIDENTIAL	LKD	25.0	97.1	97.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD471

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F34	R11	RESIDENTIAL	LKD	25.1	94	94	0.0	0
F34	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F34	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD472

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F35	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F35	R2	RESIDENTIAL	BEDROOM	10.3	99	99	0.0	0
F35	R3	RESIDENTIAL	BEDROOM	9.5	92	92	0.0	0
F35	R4	RESIDENTIAL	BEDROOM	11.2	92.8	92.8	0.0	0
F35	R5	RESIDENTIAL	BEDROOM	11.1	88.5	88.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD473

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



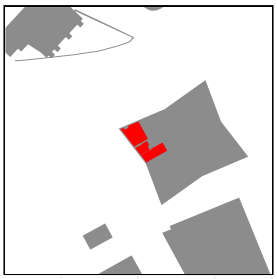
F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F35	R6	RESIDENTIAL	BEDROOM	10.3	93.7	93.7	0.0	0
F35	R7	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F35	R8	RESIDENTIAL	LKD	39.1	100	99.7	0.1	0.3
F35	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F35	R10	RESIDENTIAL	LKD	25.0	97.3	97.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD474

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F35	R11	RESIDENTIAL	LKD	25.1	97.1	97.1	0.0	0
F35	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F35	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD475

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F36	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F36	R2	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F36	R3	RESIDENTIAL	BEDROOM	9.5	96.4	96.4	0.0	0
F36	R4	RESIDENTIAL	BEDROOM	11.2	93.4	93.4	0.0	0
F36	R5	RESIDENTIAL	BEDROOM	11.1	93.6	93.6	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD476

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



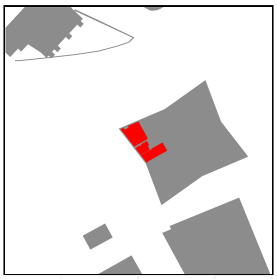
F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F36	R6	RESIDENTIAL	BEDROOM	10.3	91.2	91.2	0.0	0
F36	R7	RESIDENTIAL	BEDROOM	10.3	99.1	99.1	0.0	0
F36	R8	RESIDENTIAL	LKD	39.1	100	99.7	0.1	0.3
F36	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F36	R10	RESIDENTIAL	LKD	25.0	97.1	97.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD477

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F36	R11	RESIDENTIAL	LKD	25.1	94.2	94.2	0.0	0
F36	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F36	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD478

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F37

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F37	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F37	R2	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F37	R3	RESIDENTIAL	BEDROOM	9.5	93.9	93.9	0.0	0
F37	R4	RESIDENTIAL	BEDROOM	11.2	93.2	93.2	0.0	0
F37	R5	RESIDENTIAL	BEDROOM	11.1	91.3	91.1	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD479

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



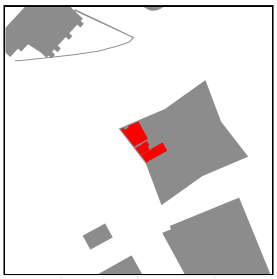
F37

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F37	R6	RESIDENTIAL	BEDROOM	10.3	94.9	94.9	0.0	0
F37	R7	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F37	R8	RESIDENTIAL	LKD	39.1	100	99.7	0.1	0.3
F37	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F37	R10	RESIDENTIAL	LKD	25.0	97.4	97.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD480

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F37

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F37	R11	RESIDENTIAL	LKD	25.1	97.3	97.3	0.0	0
F37	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F37	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD481

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F38

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F38	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F38	R2	RESIDENTIAL	BEDROOM	10.3	99.8	99.8	0.0	0
F38	R3	RESIDENTIAL	BEDROOM	9.5	96.8	96.8	0.0	0
F38	R4	RESIDENTIAL	BEDROOM	11.2	93.5	93.5	0.0	0.1
F38	R5	RESIDENTIAL	BEDROOM	11.1	93.7	93.7	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD482

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



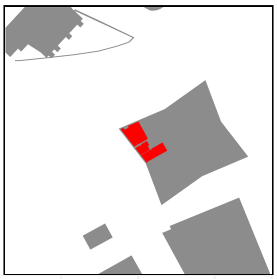
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F38	R6	RESIDENTIAL	BEDROOM	10.3	91.9	91.8	0.0	0
F38	R7	RESIDENTIAL	BEDROOM	10.3	99.1	99.1	0.0	0
F38	R8	RESIDENTIAL	LKD	39.1	100	99.8	0.1	0.2
F38	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F38	R10	RESIDENTIAL	LKD	25.0	97.2	97.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD483

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F38

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F38	R11	RESIDENTIAL	LKD	25.1	94.4	94.4	0.0	0
F38	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F38	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD484

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F39

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F39	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F39	R2	RESIDENTIAL	BEDROOM	10.3	99.6	99.6	0.0	0
F39	R3	RESIDENTIAL	BEDROOM	9.5	94	94	0.0	0
F39	R4	RESIDENTIAL	BEDROOM	11.2	93.3	93.3	0.0	0
F39	R5	RESIDENTIAL	BEDROOM	11.1	93.9	93.8	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD485

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



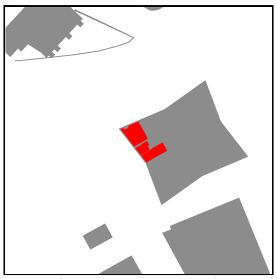
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F39	R6	RESIDENTIAL	BEDROOM	10.3	94.9	94.9	0.0	0
F39	R7	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F39	R8	RESIDENTIAL	LKD	39.1	100	99.9	0.0	0.1
F39	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F39	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD486

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F39

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F39	R11	RESIDENTIAL	LKD	25.1	97.6	97.6	0.0	0
F39	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F39	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD487

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F40	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F40	R2	RESIDENTIAL	BEDROOM	10.3	99.8	99.8	0.0	0
F40	R3	RESIDENTIAL	BEDROOM	9.5	96.5	96.5	0.0	0
F40	R4	RESIDENTIAL	BEDROOM	11.2	93.6	93.5	0.0	0.1
F40	R5	RESIDENTIAL	BEDROOM	11.1	93.8	93.7	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD488

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



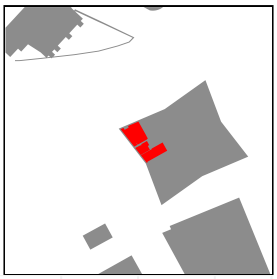
F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F40	R6	RESIDENTIAL	BEDROOM	10.3	91.9	91.9	0.0	0
F40	R7	RESIDENTIAL	BEDROOM	10.3	99.1	99.1	0.0	0
F40	R8	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F40	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F40	R10	RESIDENTIAL	LKD	25.0	97.2	97.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD489

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F40	R11	RESIDENTIAL	LKD	25.1	94.6	94.6	0.0	0
F40	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F40	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD490

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F41

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F41	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F41	R2	RESIDENTIAL	BEDROOM	10.3	99.6	99.6	0.0	0
F41	R3	RESIDENTIAL	BEDROOM	9.5	94	94	0.0	0
F41	R4	RESIDENTIAL	BEDROOM	11.2	93.3	93.3	0.0	0
F41	R5	RESIDENTIAL	BEDROOM	11.1	94.7	94.7	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD491

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F41

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F41	R6	RESIDENTIAL	BEDROOM	10.3	94.9	94.9	0.0	0
F41	R7	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F41	R8	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F41	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F41	R10	RESIDENTIAL	LKD	25.0	97.6	97.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD492

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F41

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F41	R11	RESIDENTIAL	LKD	25.1	97.6	97.6	0.0	0
F41	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F41	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD493

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F42	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F42	R2	RESIDENTIAL	BEDROOM	10.3	99.8	99.8	0.0	0
F42	R3	RESIDENTIAL	BEDROOM	9.5	96.5	96.5	0.0	0
F42	R4	RESIDENTIAL	BEDROOM	11.2	93.6	93.5	0.0	0.1
F42	R5	RESIDENTIAL	BEDROOM	11.1	93.8	93.7	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD494

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



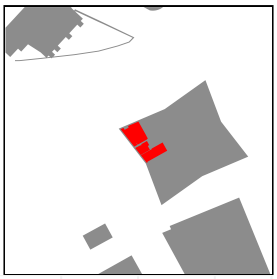
F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F42	R6	RESIDENTIAL	BEDROOM	10.3	92	92	0.0	0
F42	R7	RESIDENTIAL	BEDROOM	10.3	99.1	99.1	0.0	0
F42	R8	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F42	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F42	R10	RESIDENTIAL	LKD	25.0	97.2	97.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD495

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F42	R11	RESIDENTIAL	LKD	25.1	94.7	94.7	0.0	0
F42	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F42	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD496

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F43

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F43	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F43	R2	RESIDENTIAL	BEDROOM	10.3	99.6	99.6	0.0	0
F43	R3	RESIDENTIAL	BEDROOM	9.5	94	94	0.0	0
F43	R4	RESIDENTIAL	BEDROOM	11.2	93.3	93.3	0.0	0
F43	R5	RESIDENTIAL	BEDROOM	11.1	94.7	94.7	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD497

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



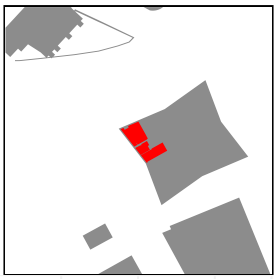
F43

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F43	R6	RESIDENTIAL	BEDROOM	10.3	94.9	94.9	0.0	0
F43	R7	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F43	R8	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F43	R9	RESIDENTIAL	BEDROOM	11.9	98.2	98.2	0.0	0
F43	R10	RESIDENTIAL	LKD	25.0	97.7	97.7	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD498

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F43

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F43	R11	RESIDENTIAL	LKD	25.1	97.6	97.6	0.0	0
F43	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F43	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD499

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F44

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F44	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F44	R2	RESIDENTIAL	BEDROOM	10.3	99.8	99.8	0.0	0
F44	R3	RESIDENTIAL	BEDROOM	9.5	96.5	96.5	0.0	0
F44	R4	RESIDENTIAL	BEDROOM	11.2	93.6	93.6	0.0	0
F44	R5	RESIDENTIAL	BEDROOM	11.1	93.8	93.7	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD500

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



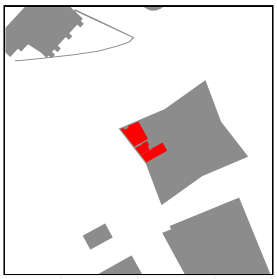
F44

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F44	R6	RESIDENTIAL	BEDROOM	10.3	92	92	0.0	0
F44	R7	RESIDENTIAL	BEDROOM	10.3	99.1	99.1	0.0	0
F44	R8	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F44	R9	RESIDENTIAL	BEDROOM	11.9	97	97	0.0	0
F44	R10	RESIDENTIAL	LKD	25.0	97.3	97.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD501

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





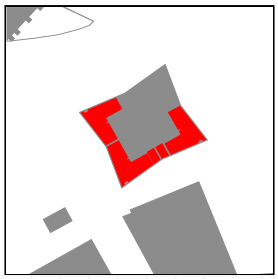
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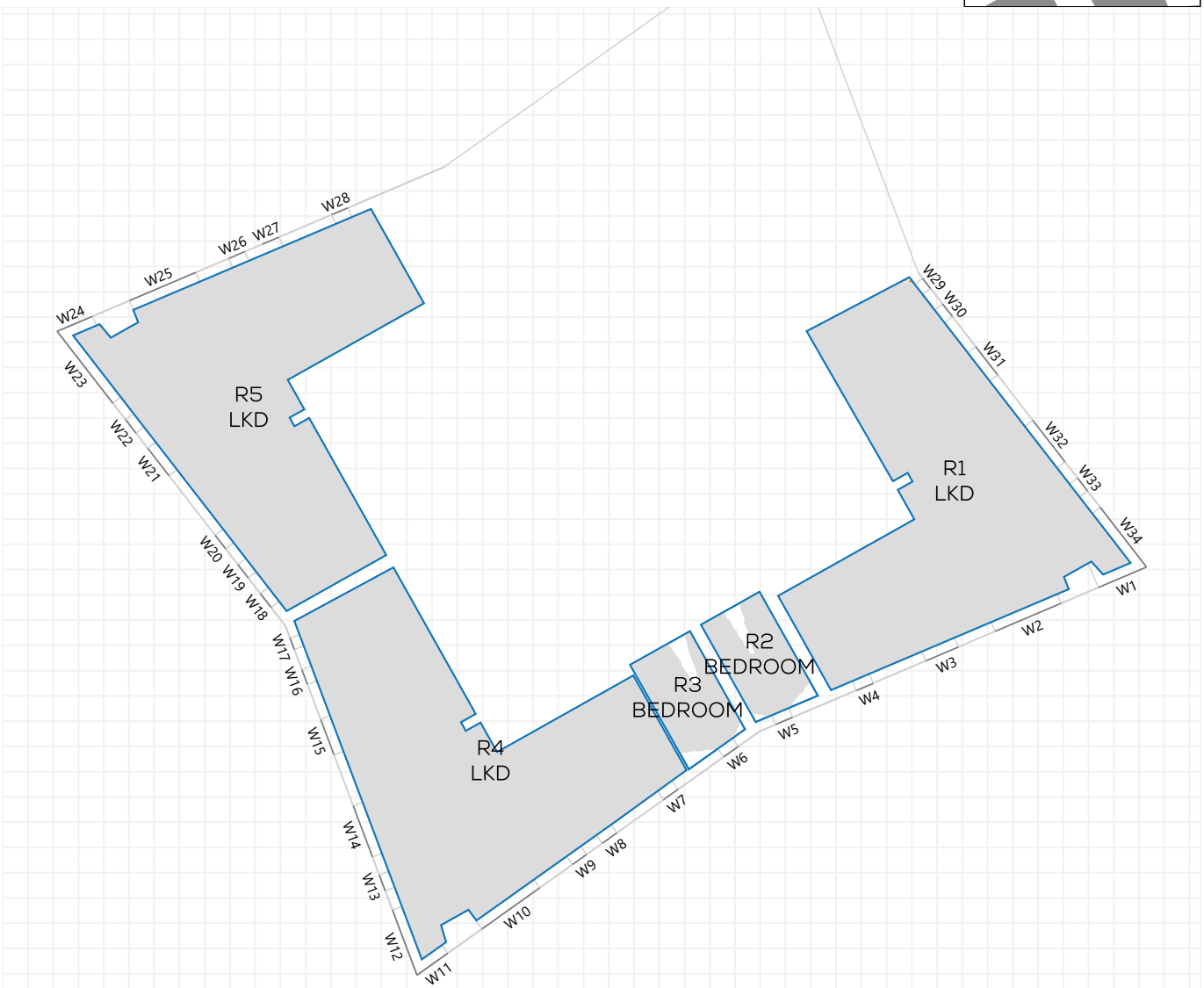
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F44	R11	RESIDENTIAL	LKD	25.1	94.8	94.8	0.0	0
F44	R12	RESIDENTIAL	BEDROOM	11.9	99.6	99.6	0.0	0
F44	R13	RESIDENTIAL	LKD	39.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD502

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





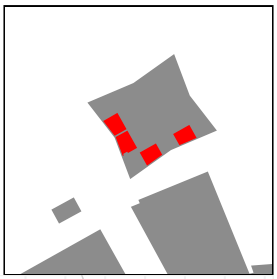
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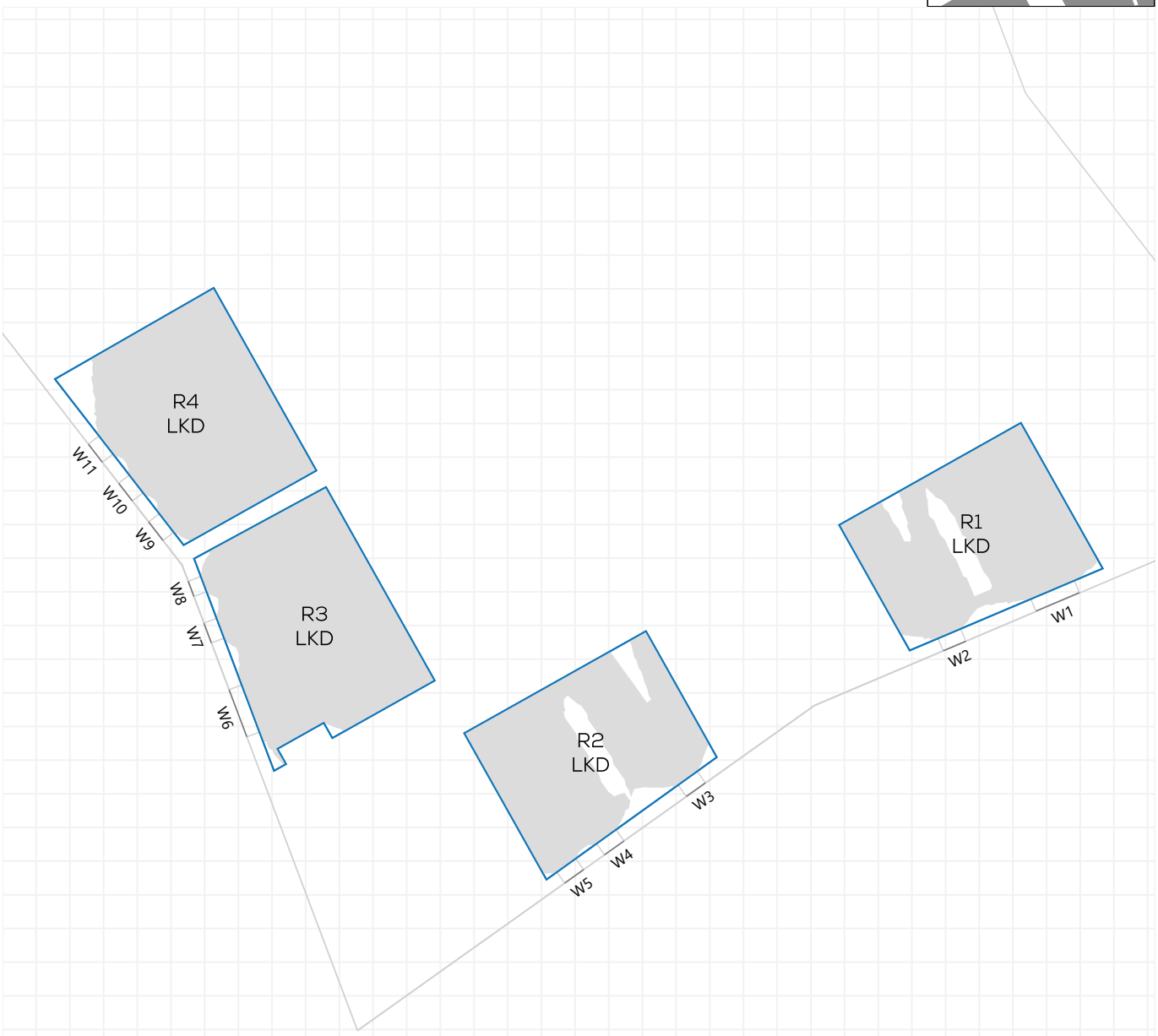
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F45	R1	RESIDENTIAL	LKD	104.3	100	99.9	0.1	0.1
F45	R2	RESIDENTIAL	BEDROOM	12.1	89	89	0.0	0
F45	R3	RESIDENTIAL	BEDROOM	12.5	88	87.9	0.0	0
F45	R4	RESIDENTIAL	LKD	103.5	100	100	0.0	0
F45	R5	RESIDENTIAL	LKD	100.7	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE WEST TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD503

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





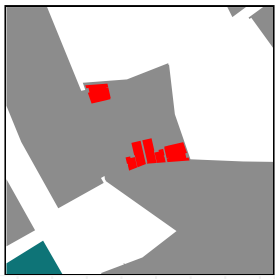
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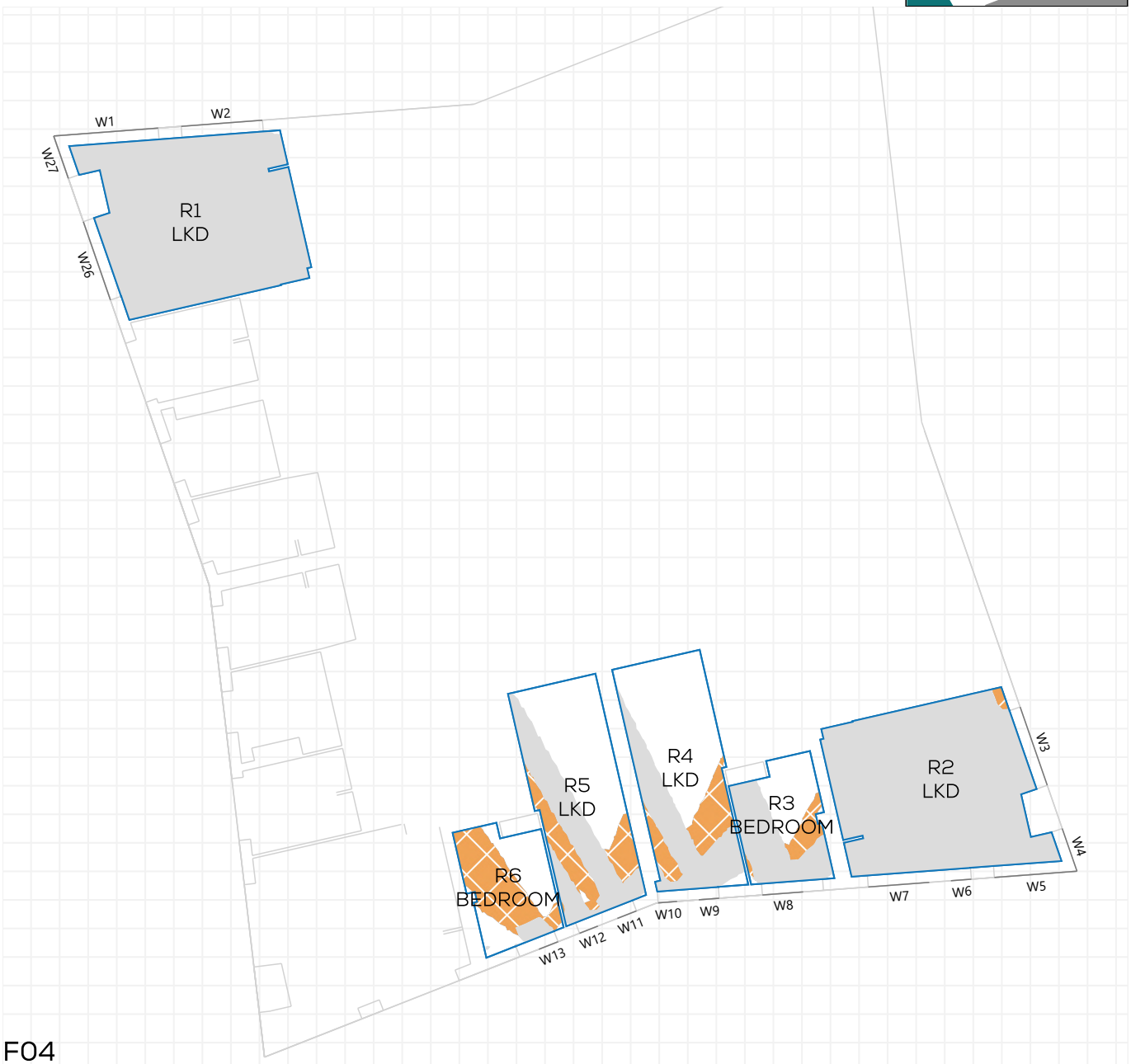
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE WEST TOWER								
F46	R1	RESIDENTIAL	LKD	28.6	88.9	88.9	0.0	0
F46	R2	RESIDENTIAL	LKD	28.7	87.8	87.8	0.0	0
F46	R3	RESIDENTIAL	LKD	32.1	97.9	97.9	0.0	0
F46	R4	RESIDENTIAL	LKD	30.9	95.4	95.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD504

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





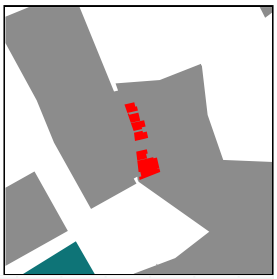
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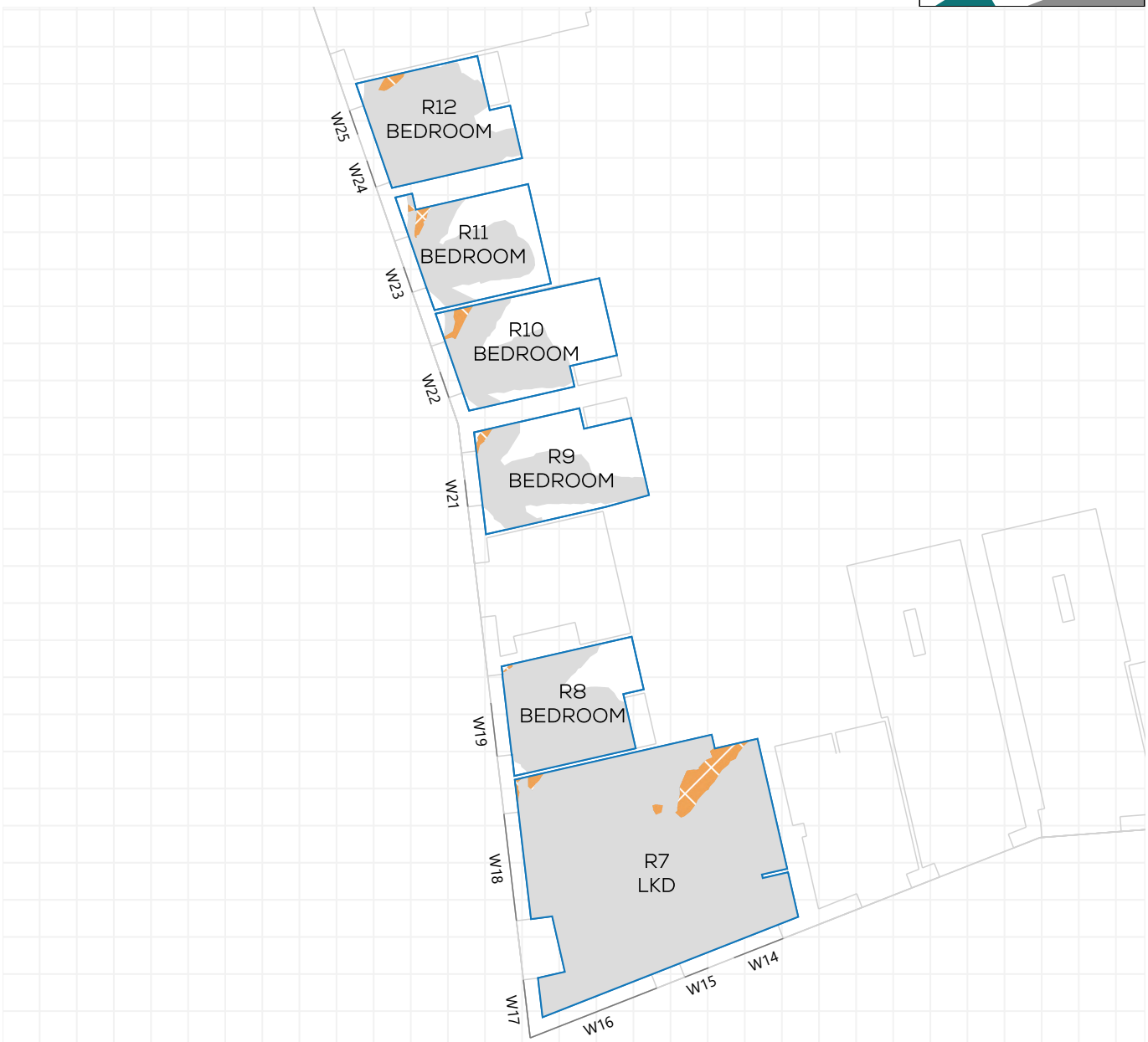
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F04	R1	RESIDENTIAL	LKD	39.4	99.9	99.9	0.0	0
F04	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F04	R3	RESIDENTIAL	BEDROOM	11.9	63.9	51.3	1.5	19.8
F04	R4	RESIDENTIAL	LKD	25.1	45.9	30.6	3.8	33.3
F04	R5	RESIDENTIAL	LKD	25.0	52.9	35.5	4.3	32.9
F04	R6	RESIDENTIAL	BEDROOM	11.9	55.5	5.8	5.9	89.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD505

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





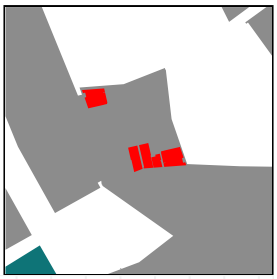
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F04	R7	RESIDENTIAL	LKD	39.1	100	96	1.6	4
F04	R8	RESIDENTIAL	BEDROOM	10.3	79.3	79	0.0	0.3
F04	R9	RESIDENTIAL	BEDROOM	11.2	56.5	55.5	0.1	1.8
F04	R10	RESIDENTIAL	BEDROOM	11.1	52.3	50	0.3	4.4
F04	R11	RESIDENTIAL	BEDROOM	9.5	60.2	57.8	0.2	3.9
F04	R12	RESIDENTIAL	BEDROOM	10.3	89.9	88.2	0.2	1.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD506

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





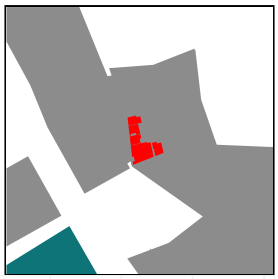
F05

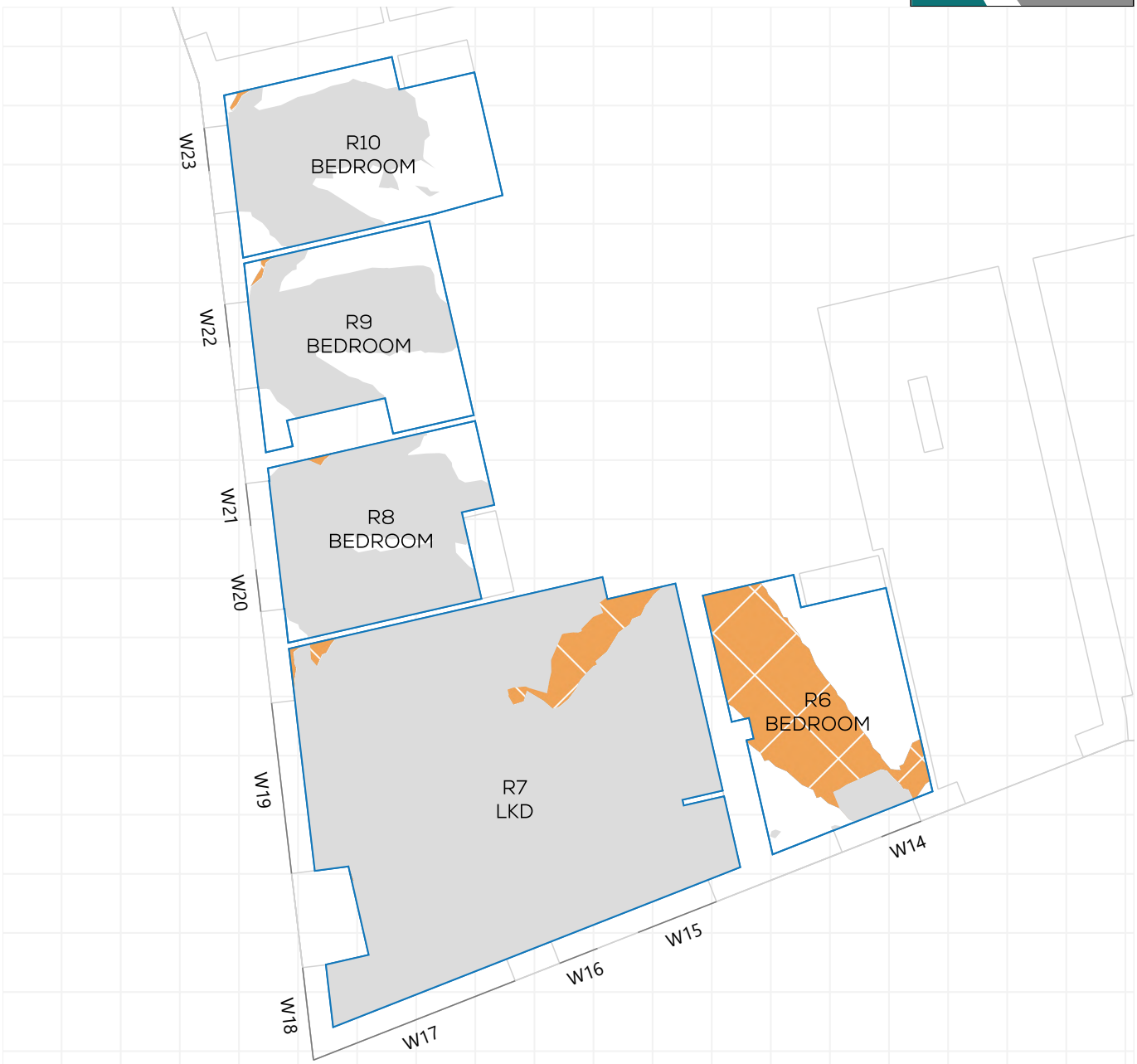
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F05	R1	RESIDENTIAL	LKD	39.4	99.9	99.9	0.0	0
F05	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F05	R3	RESIDENTIAL	BEDROOM	11.9	63.9	51.3	1.5	19.7
F05	R4	RESIDENTIAL	LKD	25.1	45.9	30.6	3.8	33.2
F05	R5	RESIDENTIAL	LKD	25.0	52.9	35.5	4.3	32.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD507

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





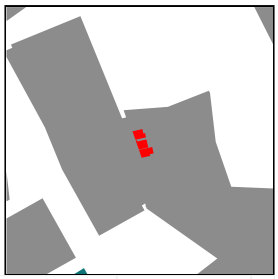
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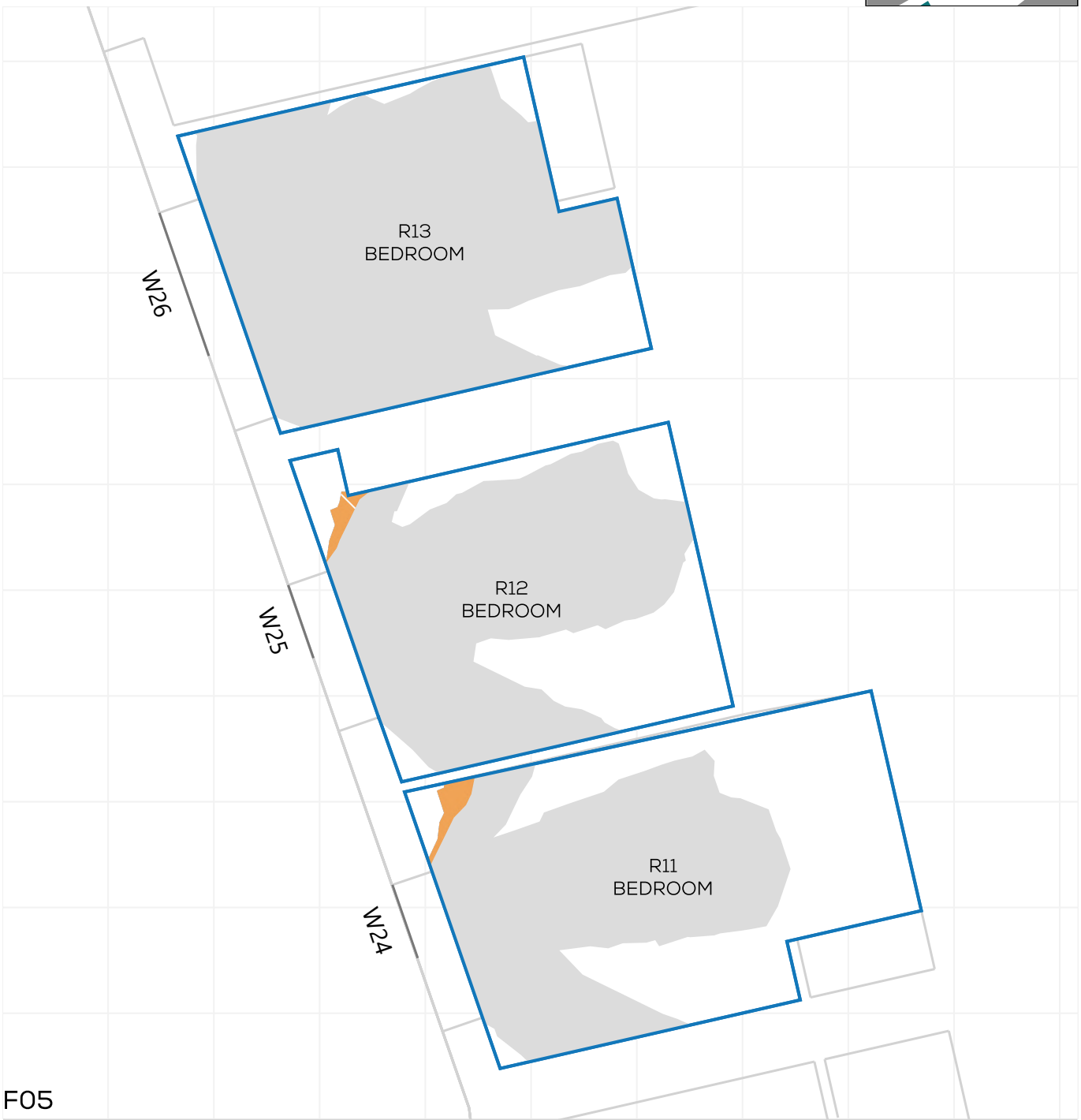
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F05	R6	RESIDENTIAL	BEDROOM	11.9	55.5	6	5.9	89.2
F05	R7	RESIDENTIAL	LKD	39.1	100	95.9	1.6	4.1
F05	R8	RESIDENTIAL	BEDROOM	10.3	88.8	88.5	0.0	0.4
F05	R9	RESIDENTIAL	BEDROOM	10.3	59	58.6	0.0	0.6
F05	R10	RESIDENTIAL	BEDROOM	11.2	56.8	56.5	0.0	0.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD508

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





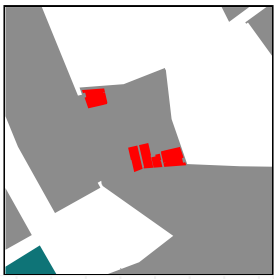
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F05	R11	RESIDENTIAL	BEDROOM	11.1	54.2	53.2	0.1	2
F05	R12	RESIDENTIAL	BEDROOM	9.5	67.9	67	0.1	1.3
F05	R13	RESIDENTIAL	BEDROOM	10.3	88.3	88.3	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD509

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





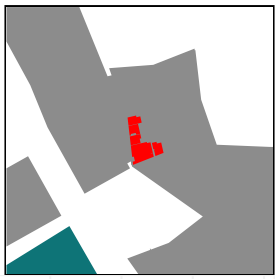
F06

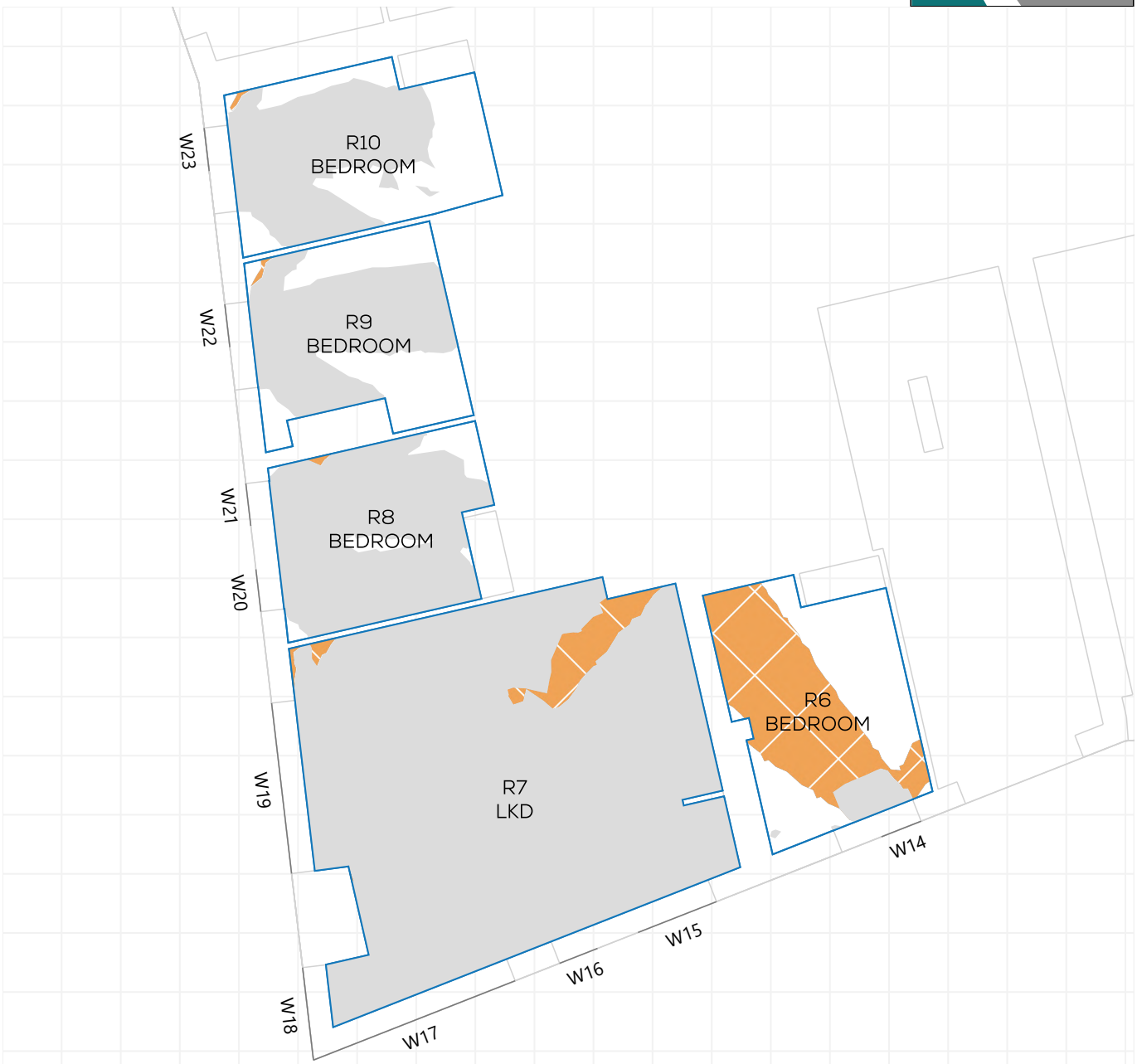
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F06	R1	RESIDENTIAL	LKD	39.4	99.9	99.9	0.0	0
F06	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F06	R3	RESIDENTIAL	BEDROOM	11.9	63.9	51.3	1.5	19.8
F06	R4	RESIDENTIAL	LKD	25.1	45.8	30.6	3.8	33.2
F06	R5	RESIDENTIAL	LKD	25.0	52.9	35.6	4.3	32.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD510

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F06	R6	RESIDENTIAL	BEDROOM	11.9	55.5	6.1	5.9	88.9
F06	R7	RESIDENTIAL	LKD	39.1	100	96	1.6	4
F06	R8	RESIDENTIAL	BEDROOM	10.3	90.3	90	0.0	0.4
F06	R9	RESIDENTIAL	BEDROOM	10.3	60.2	59.9	0.0	0.6
F06	R10	RESIDENTIAL	BEDROOM	11.2	58.9	58.6	0.0	0.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD511

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



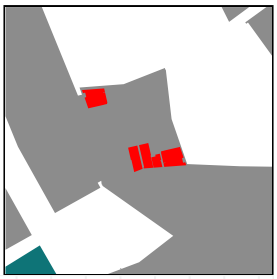
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F06	R11	RESIDENTIAL	BEDROOM	11.1	57.1	56.2	0.1	1.7
F06	R12	RESIDENTIAL	BEDROOM	9.5	71.2	70.3	0.1	1.3
F06	R13	RESIDENTIAL	BEDROOM	10.3	89.7	89.6	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD512

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





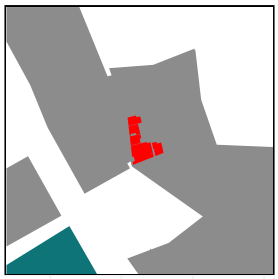
F07

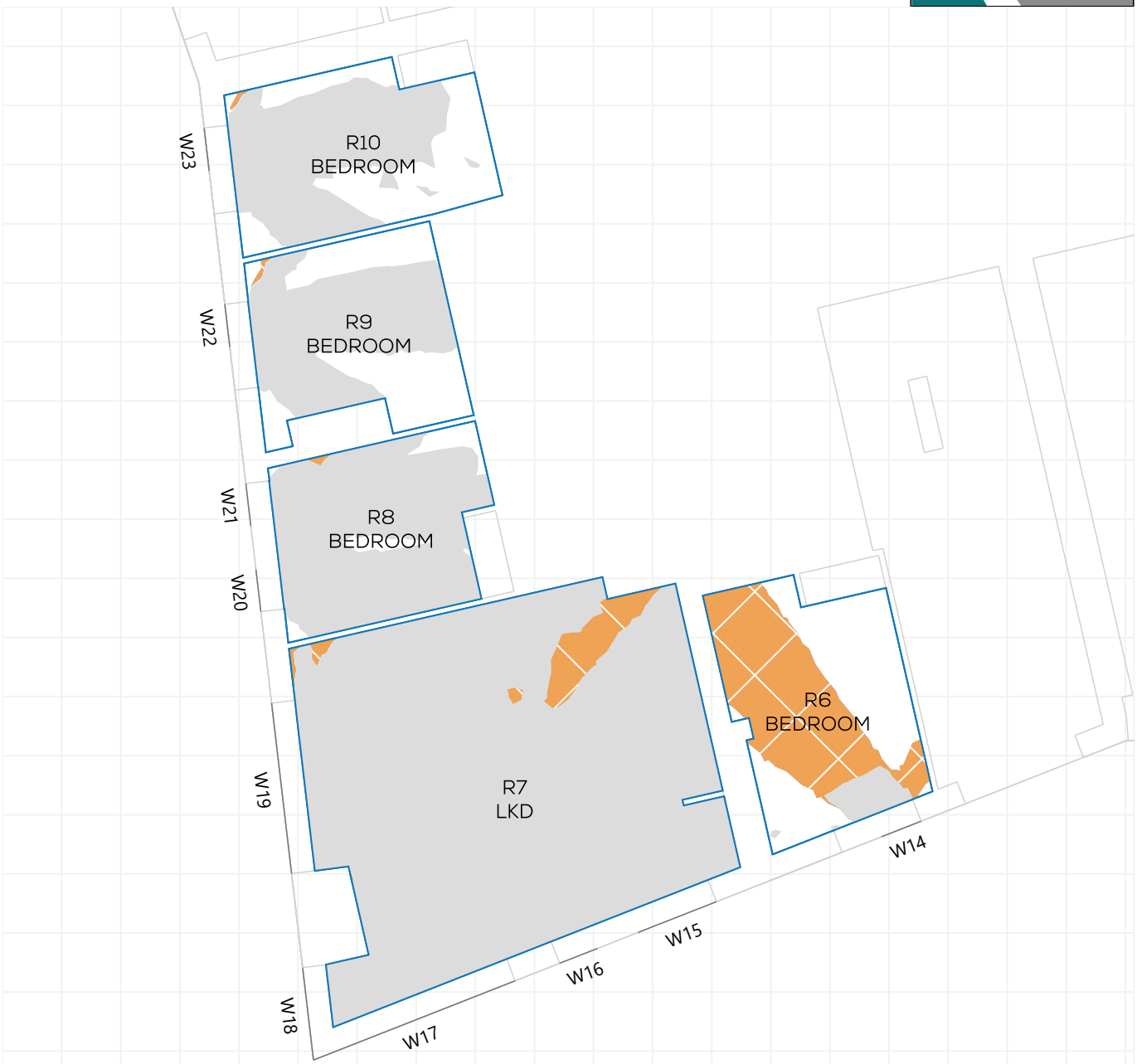
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F07	R1	RESIDENTIAL	LKD	39.4	99.9	99.9	0.0	0
F07	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F07	R3	RESIDENTIAL	BEDROOM	11.9	63.9	51.4	1.5	19.7
F07	R4	RESIDENTIAL	LKD	25.1	45.8	30.7	3.8	33.1
F07	R5	RESIDENTIAL	LKD	25.0	52.9	35.7	4.3	32.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD513

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





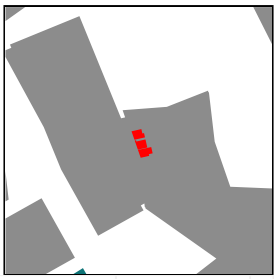
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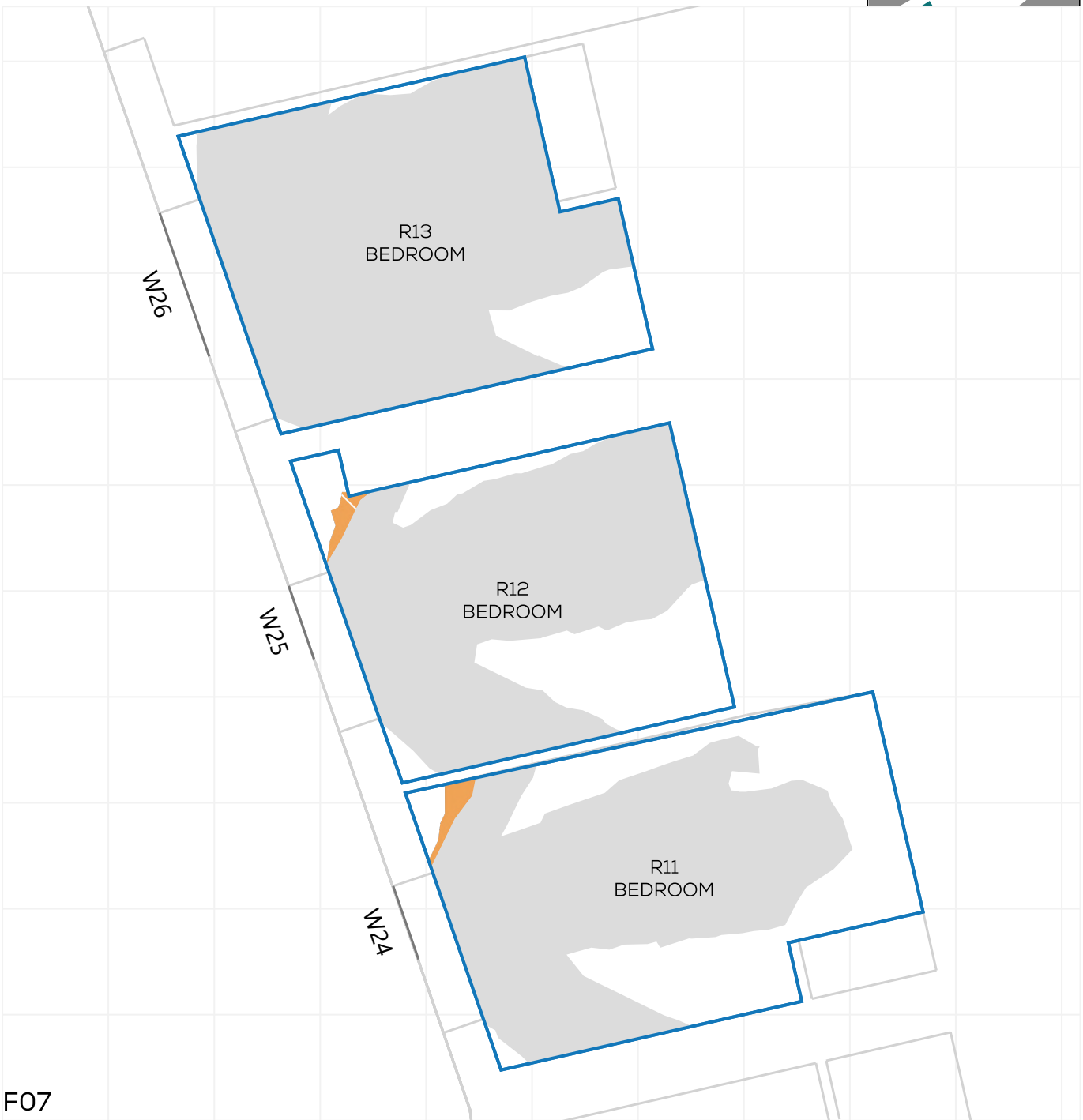
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F07	R6	RESIDENTIAL	BEDROOM	11.9	55.5	6.6	5.8	88
F07	R7	RESIDENTIAL	LKD	39.1	100	96.1	1.5	3.9
F07	R8	RESIDENTIAL	BEDROOM	10.3	92.3	92	0.0	0.3
F07	R9	RESIDENTIAL	BEDROOM	10.3	60.6	60.2	0.0	0.6
F07	R10	RESIDENTIAL	BEDROOM	11.2	61.8	61.5	0.0	0.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD514

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





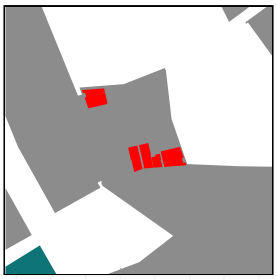
F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F07	R11	RESIDENTIAL	BEDROOM	11.1	61.5	60.5	0.1	1.6
F07	R12	RESIDENTIAL	BEDROOM	9.5	72.6	71.7	0.1	1.2
F07	R13	RESIDENTIAL	BEDROOM	10.3	90	90	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD515

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





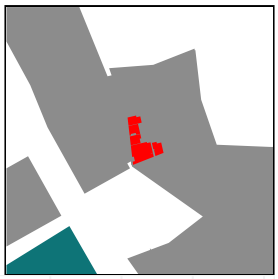
F08

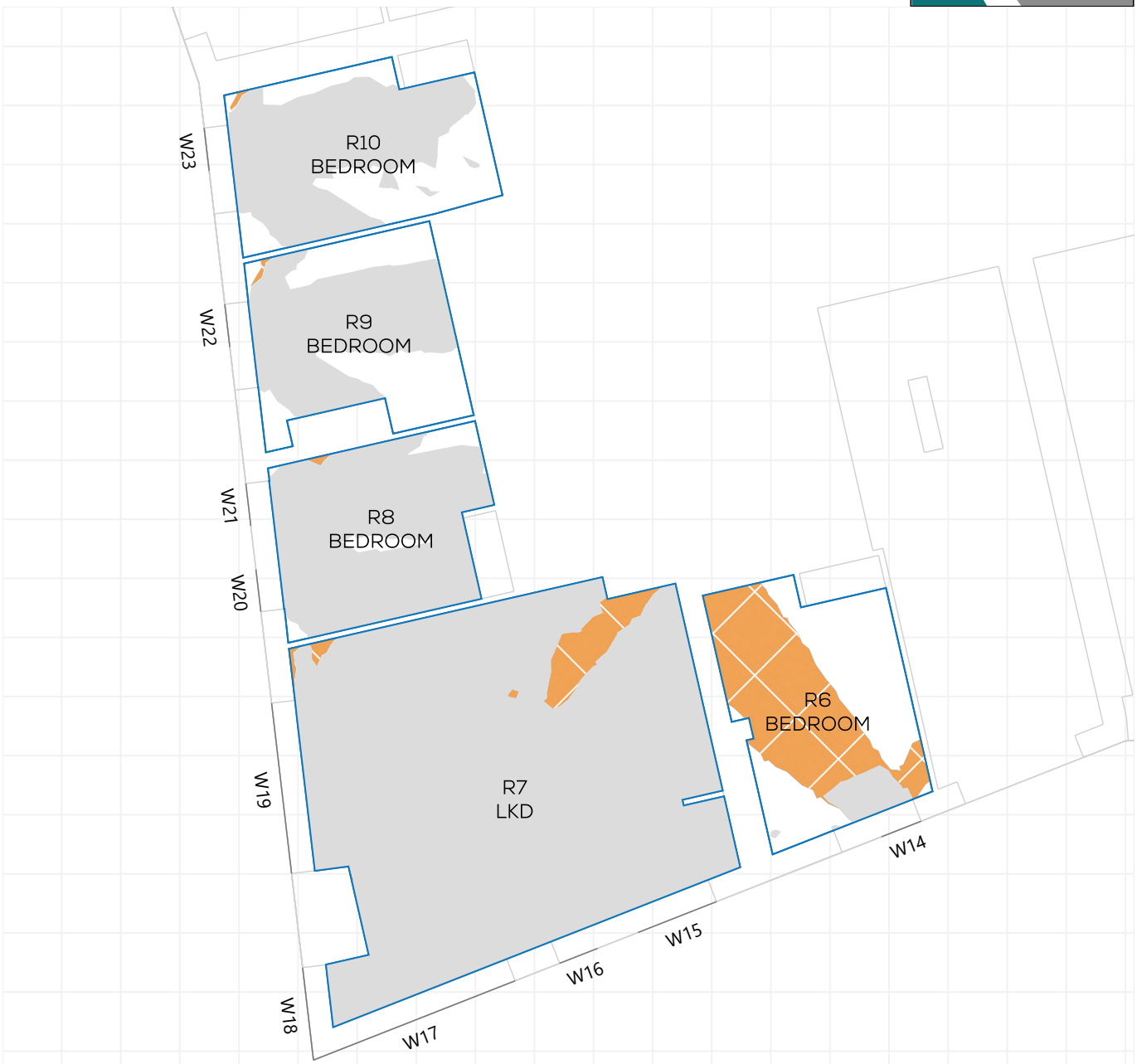
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F08	R1	RESIDENTIAL	LKD	39.4	99.9	99.9	0.0	0
F08	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F08	R3	RESIDENTIAL	BEDROOM	11.9	64	51.5	1.5	19.5
F08	R4	RESIDENTIAL	LKD	25.1	45.9	30.7	3.8	33
F08	R5	RESIDENTIAL	LKD	25.0	52.9	35.9	4.2	32.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD516

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





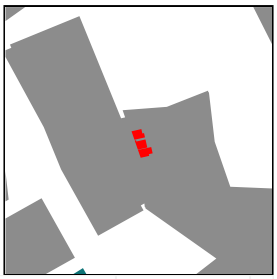
F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F08	R6	RESIDENTIAL	BEDROOM	11.9	55.5	7	5.8	87.5
F08	R7	RESIDENTIAL	LKD	39.1	100	96.2	1.5	3.8
F08	R8	RESIDENTIAL	BEDROOM	10.3	93.1	92.8	0.0	0.3
F08	R9	RESIDENTIAL	BEDROOM	10.3	60.8	60.4	0.0	0.6
F08	R10	RESIDENTIAL	BEDROOM	11.2	65.5	65.2	0.0	0.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD517

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





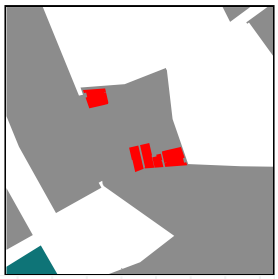
F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F08	R11	RESIDENTIAL	BEDROOM	11.1	66.5	65.5	0.1	1.5
F08	R12	RESIDENTIAL	BEDROOM	9.5	73.2	72.3	0.1	1.2
F08	R13	RESIDENTIAL	BEDROOM	10.3	90.3	90.3	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD518

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





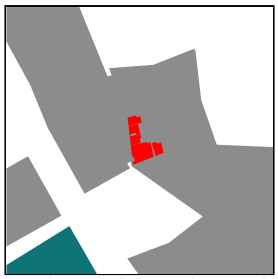
F09

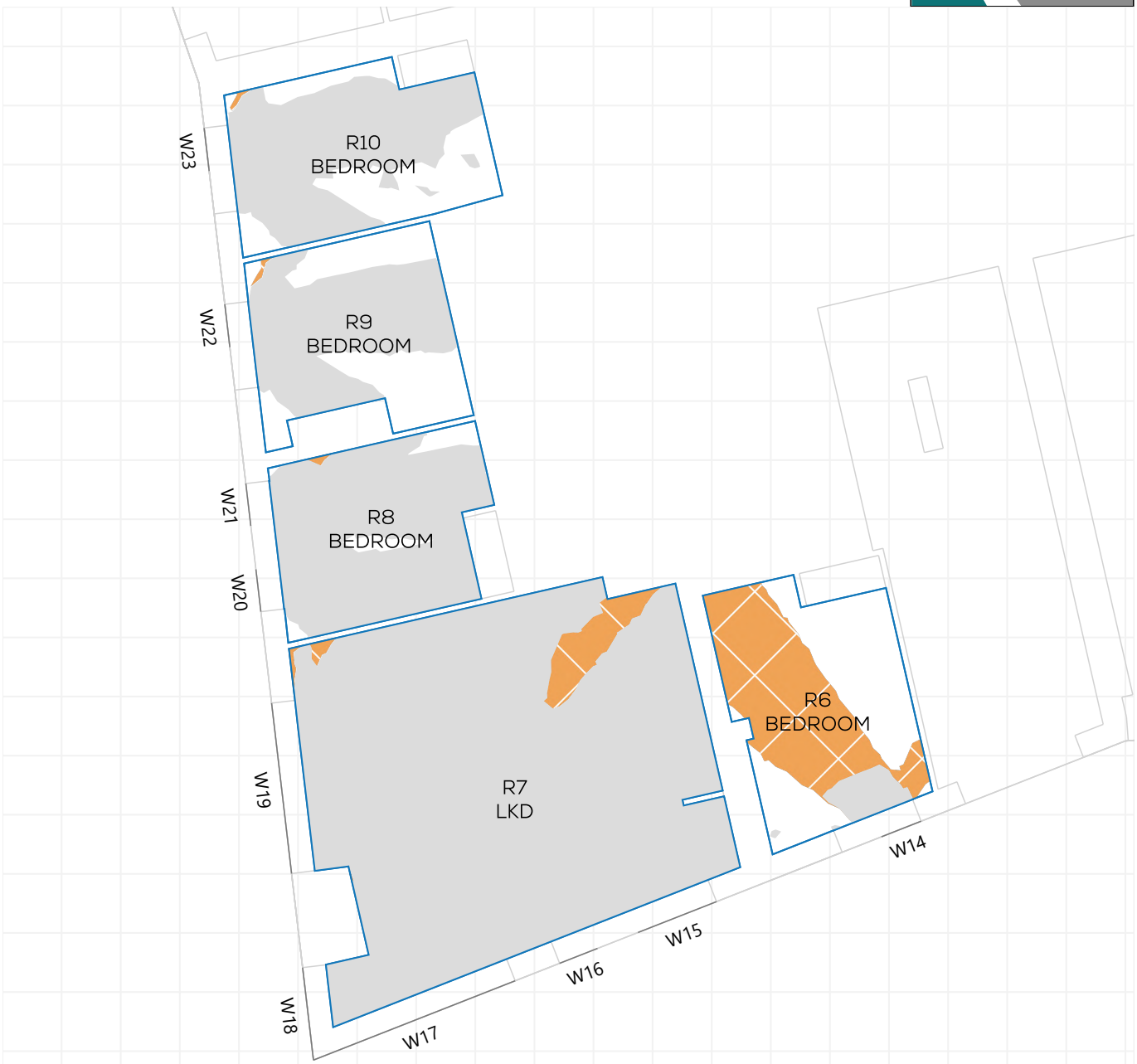
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F09	R1	RESIDENTIAL	LKD	39.4	99.9	99.9	0.0	0
F09	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F09	R3	RESIDENTIAL	BEDROOM	11.9	64	51.6	1.5	19.4
F09	R4	RESIDENTIAL	LKD	25.1	45.9	30.8	3.8	32.9
F09	R5	RESIDENTIAL	LKD	25.0	52.9	35.9	4.2	32.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD519

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





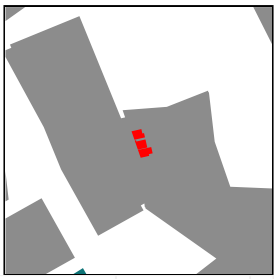
F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F09	R6	RESIDENTIAL	BEDROOM	11.9	55.4	7.2	5.7	87
F09	R7	RESIDENTIAL	LKD	39.1	100	96.3	1.5	3.7
F09	R8	RESIDENTIAL	BEDROOM	10.3	93.2	92.9	0.0	0.3
F09	R9	RESIDENTIAL	BEDROOM	10.3	61.1	60.7	0.0	0.6
F09	R10	RESIDENTIAL	BEDROOM	11.2	67.8	67.5	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD520

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





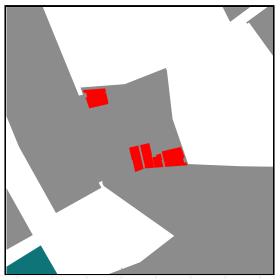
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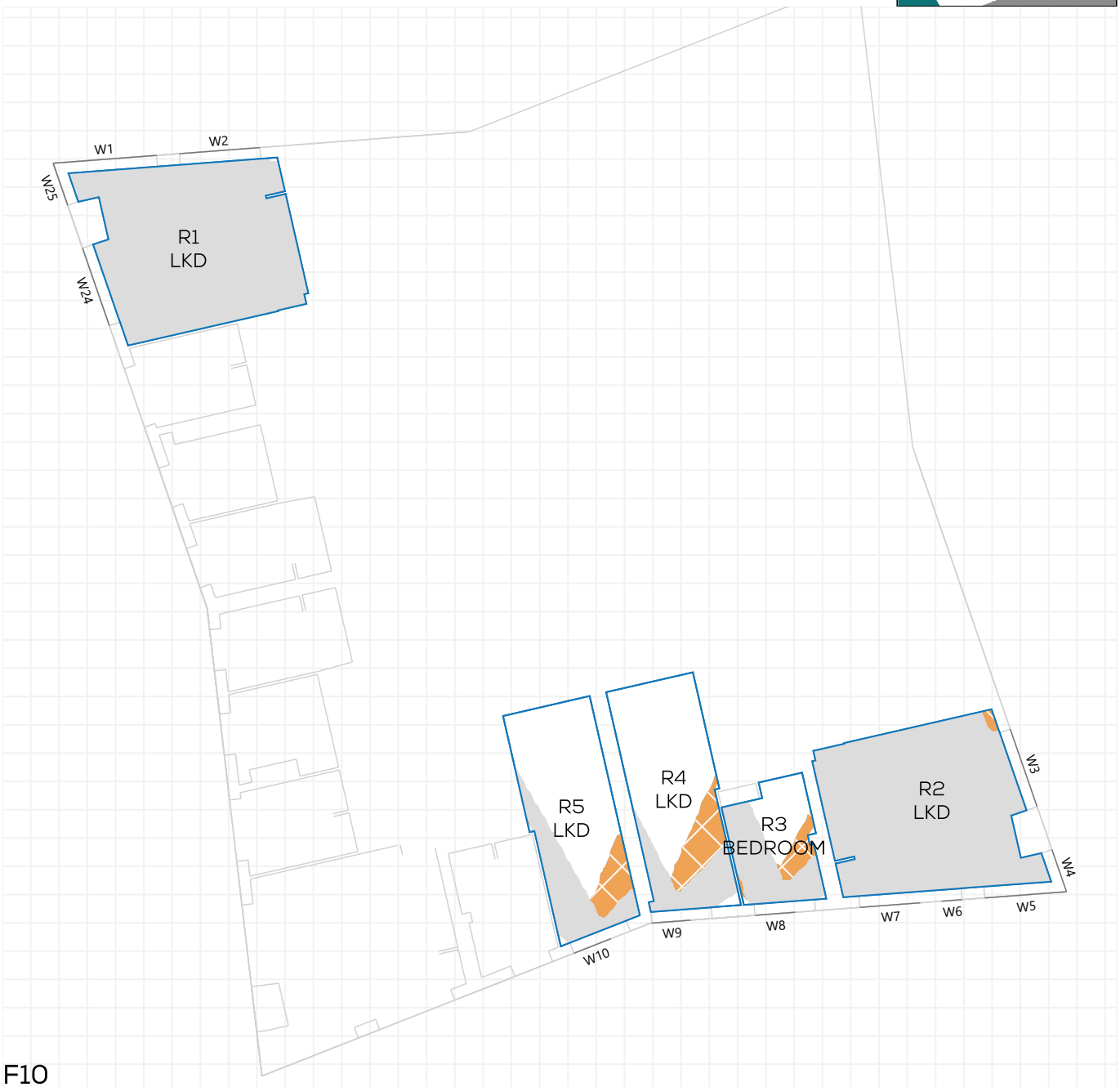
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F09	R11	RESIDENTIAL	BEDROOM	11.1	71	70.1	0.1	1.4
F09	R12	RESIDENTIAL	BEDROOM	9.5	74	73.1	0.1	1.2
F09	R13	RESIDENTIAL	BEDROOM	10.3	90.5	90.5	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD521

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





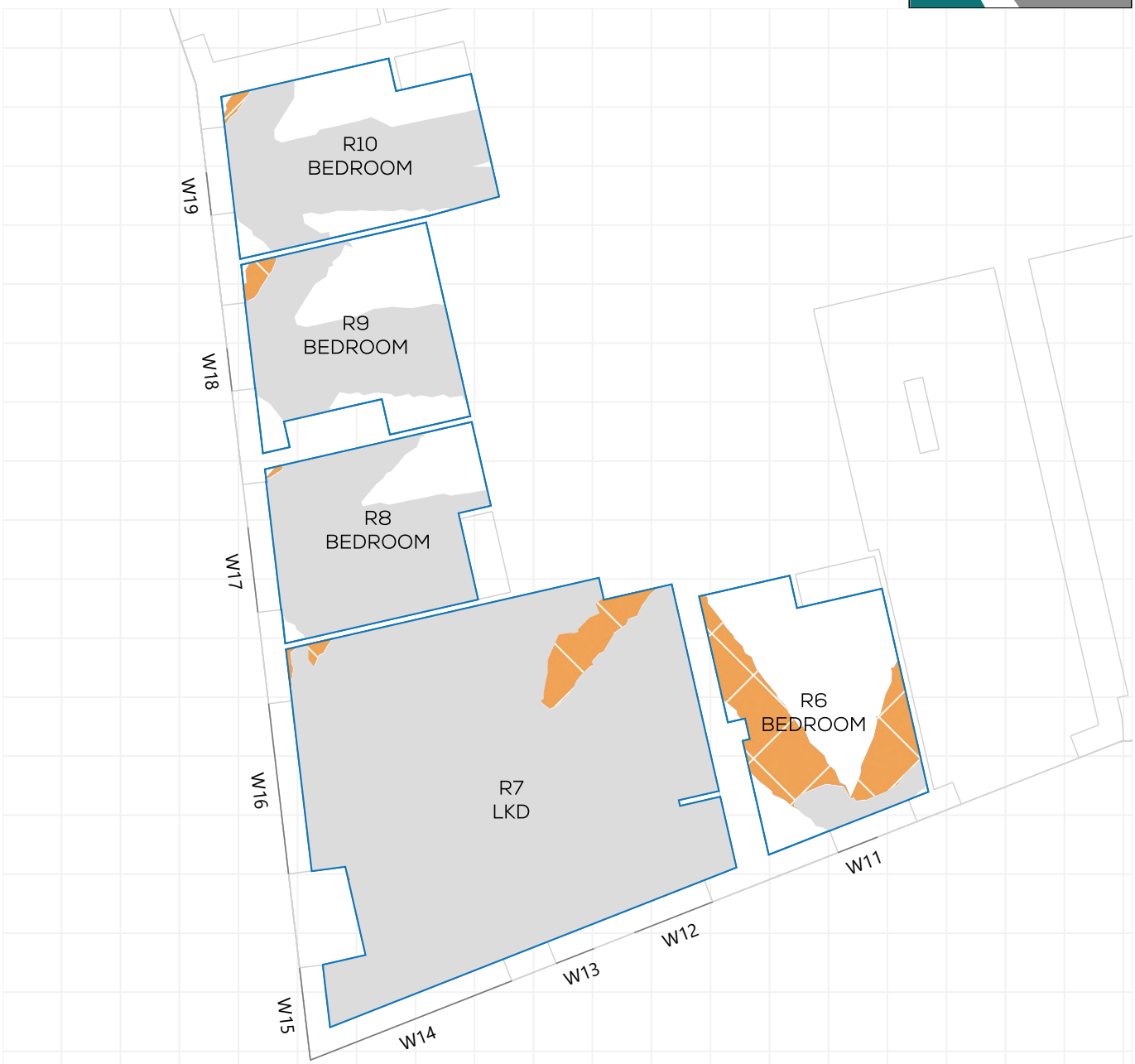
F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F10	R1	RESIDENTIAL	LKD	39.4	99.9	99.9	0.0	0
F10	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F10	R3	RESIDENTIAL	BEDROOM	11.9	64	51.6	1.5	19.4
F10	R4	RESIDENTIAL	LKD	25.1	32.2	19	3.3	40.9
F10	R5	RESIDENTIAL	LKD	25.0	34.5	25.5	2.2	26

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD522

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F10	R6	RESIDENTIAL	BEDROOM	11.9	41.7	8.2	4.0	80.3
F10	R7	RESIDENTIAL	LKD	39.1	100	96.3	1.5	3.7
F10	R8	RESIDENTIAL	BEDROOM	10.3	82.4	82.2	0.0	0.3
F10	R9	RESIDENTIAL	BEDROOM	10.3	62.4	60.2	0.2	3.5
F10	R10	RESIDENTIAL	BEDROOM	11.2	68.8	67.9	0.1	1.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD523

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



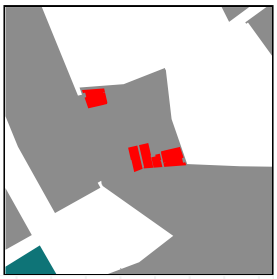
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F10	R11	RESIDENTIAL	BEDROOM	11.1	68.6	66.3	0.3	3.4
F10	R12	RESIDENTIAL	BEDROOM	9.5	70.5	68.5	0.2	2.9
F10	R13	RESIDENTIAL	BEDROOM	10.3	99	98.3	0.1	0.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD524

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





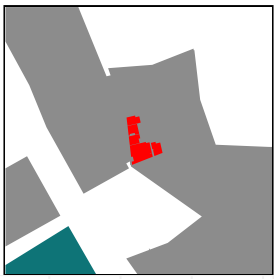
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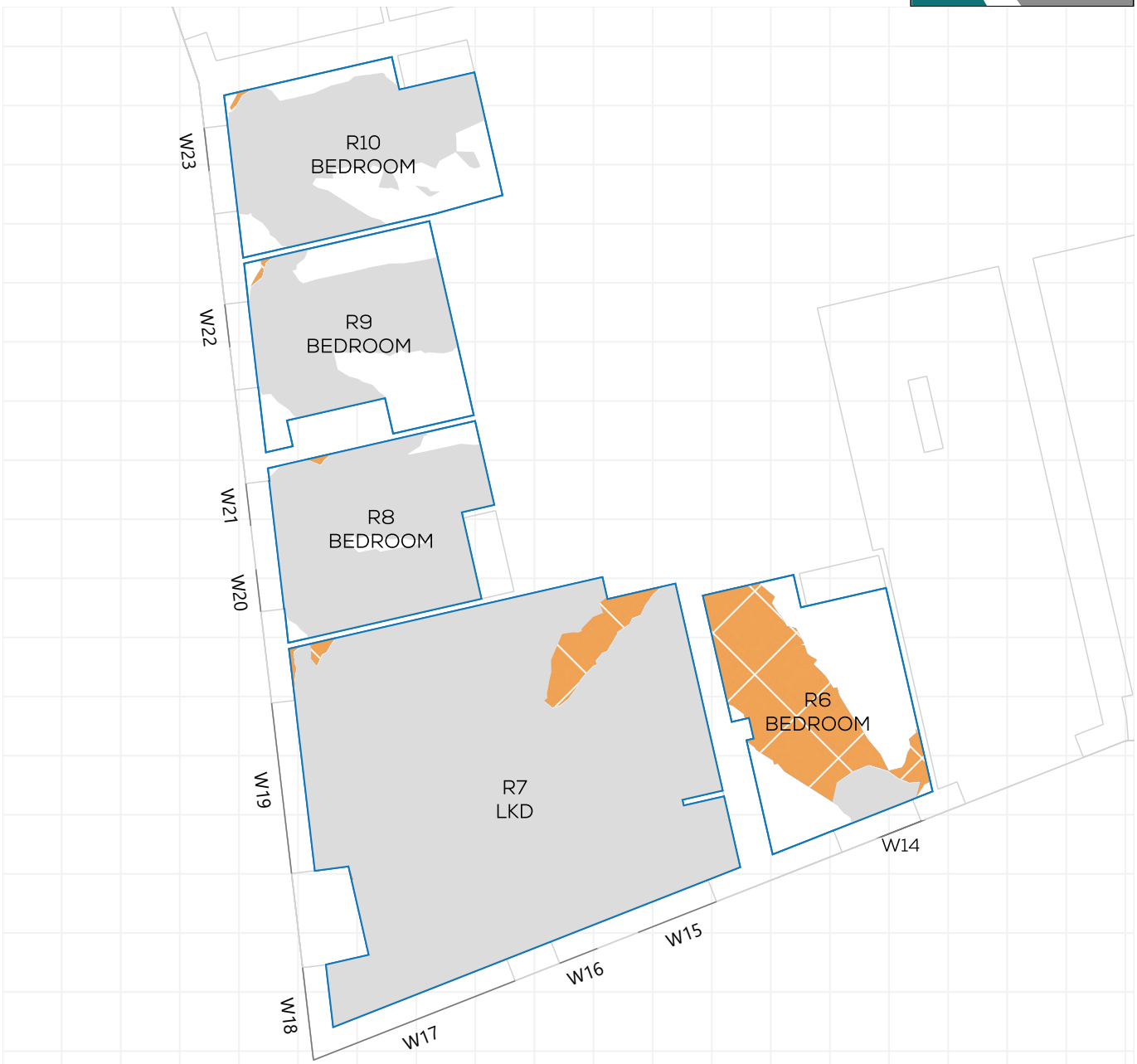
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F11	R1	RESIDENTIAL	LKD	39.4	99.9	99.9	0.0	0
F11	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F11	R3	RESIDENTIAL	BEDROOM	11.9	64	51.6	1.5	19.3
F11	R4	RESIDENTIAL	LKD	25.1	45.6	30.6	3.8	32.8
F11	R5	RESIDENTIAL	LKD	25.0	53.5	37.3	4.1	30.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD525

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





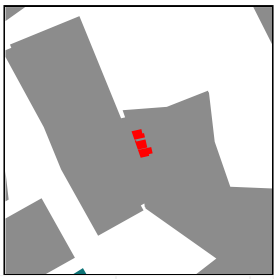
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F11	R6	RESIDENTIAL	BEDROOM	11.9	54.7	7.2	5.7	86.8
F11	R7	RESIDENTIAL	LKD	39.1	100	96.3	1.5	3.7
F11	R8	RESIDENTIAL	BEDROOM	10.3	93.5	93.2	0.0	0.3
F11	R9	RESIDENTIAL	BEDROOM	10.3	62.4	62	0.0	0.6
F11	R10	RESIDENTIAL	BEDROOM	11.2	70	69.7	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD526

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





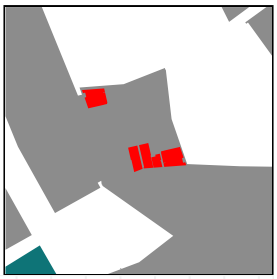
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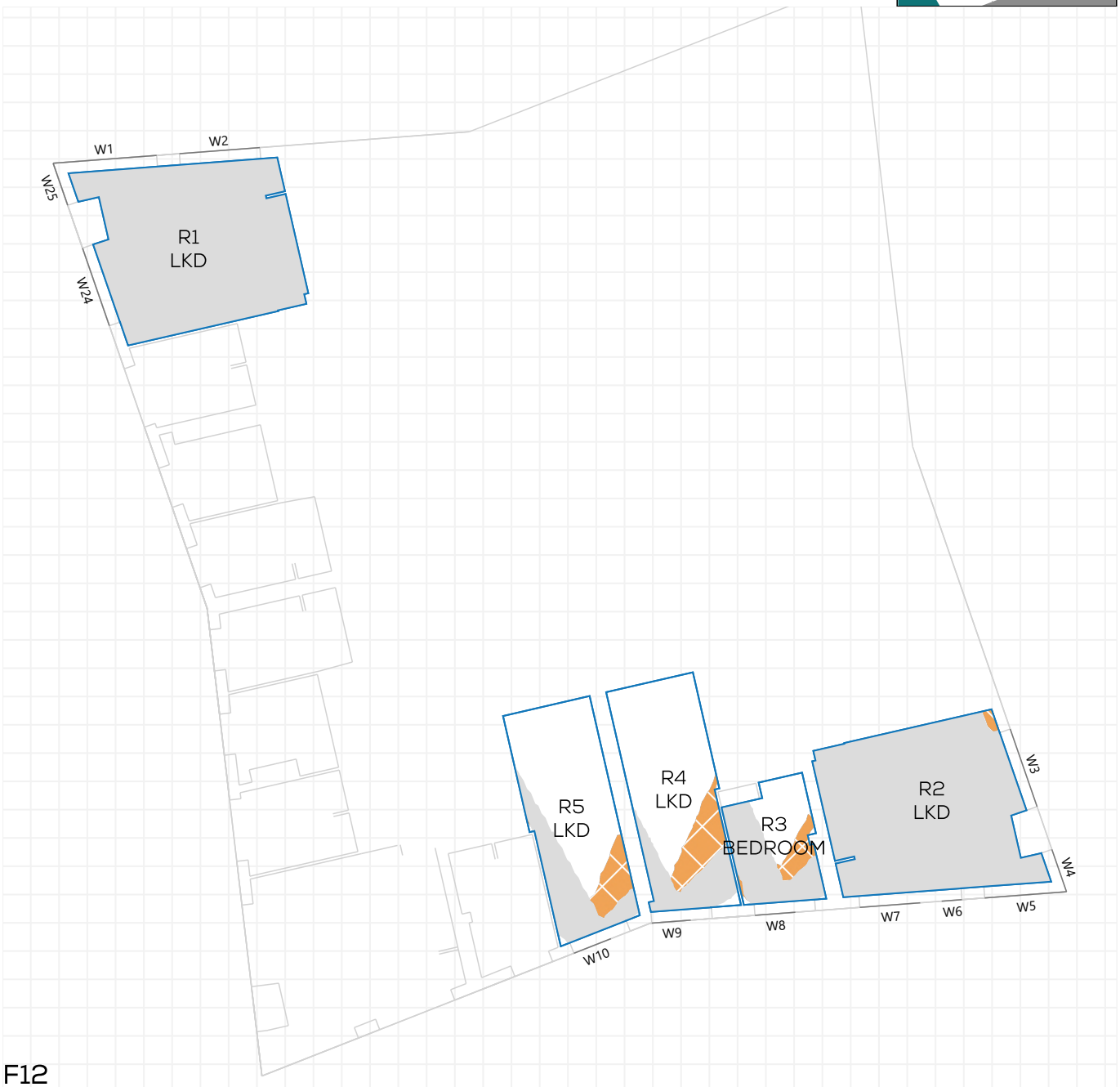
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F11	R11	RESIDENTIAL	BEDROOM	11.1	75.2	74.2	0.1	1.3
F11	R12	RESIDENTIAL	BEDROOM	9.5	74.7	73.9	0.1	1.1
F11	R13	RESIDENTIAL	BEDROOM	10.3	90.9	90.8	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD527

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





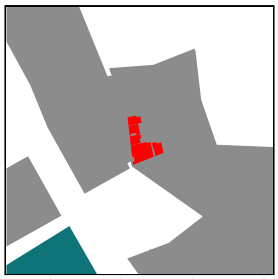
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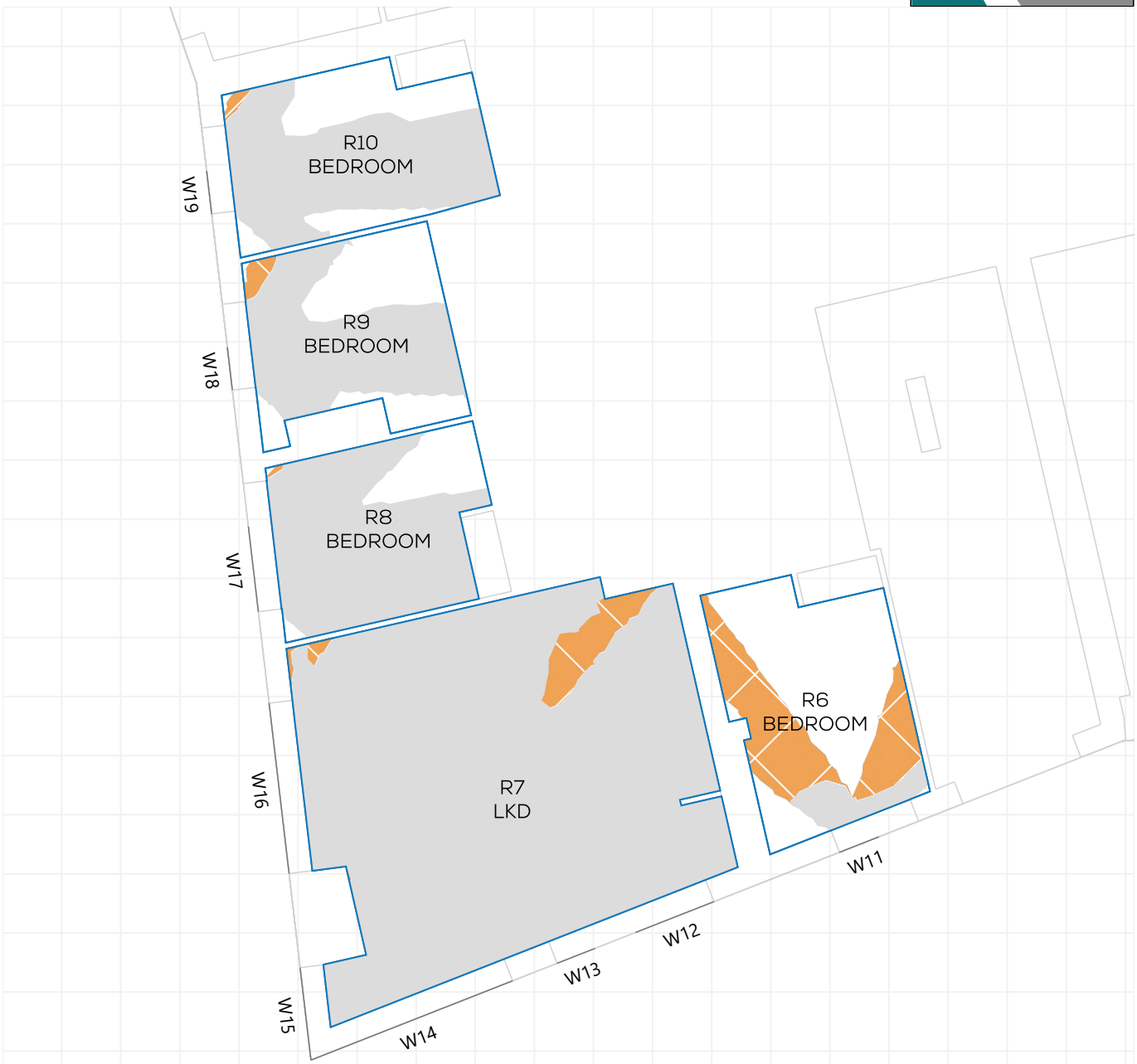
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F12	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F12	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F12	R3	RESIDENTIAL	BEDROOM	11.9	64	51.6	1.5	19.3
F12	R4	RESIDENTIAL	LKD	25.1	32.3	19.1	3.3	40.8
F12	R5	RESIDENTIAL	LKD	25.0	34.4	25.5	2.2	25.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD528

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





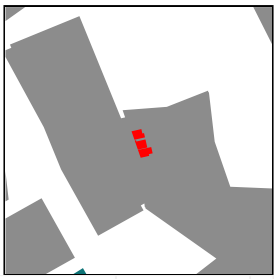
F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F12	R6	RESIDENTIAL	BEDROOM	11.9	41.6	8.9	3.9	78.6
F12	R7	RESIDENTIAL	LKD	39.1	100	96.3	1.5	3.7
F12	R8	RESIDENTIAL	BEDROOM	10.3	82.6	82.4	0.0	0.3
F12	R9	RESIDENTIAL	BEDROOM	10.3	63.2	61	0.2	3.5
F12	R10	RESIDENTIAL	BEDROOM	11.2	70.4	69.5	0.1	1.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD529

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





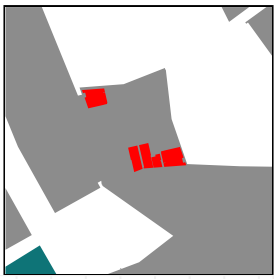
F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F12	R11	RESIDENTIAL	BEDROOM	11.1	69.8	67.5	0.3	3.3
F12	R12	RESIDENTIAL	BEDROOM	9.5	71.7	69.8	0.2	2.8
F12	R13	RESIDENTIAL	BEDROOM	10.3	99.2	99	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD530

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





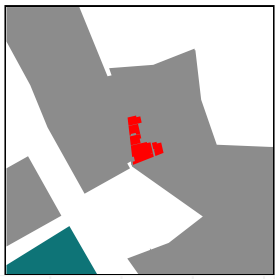
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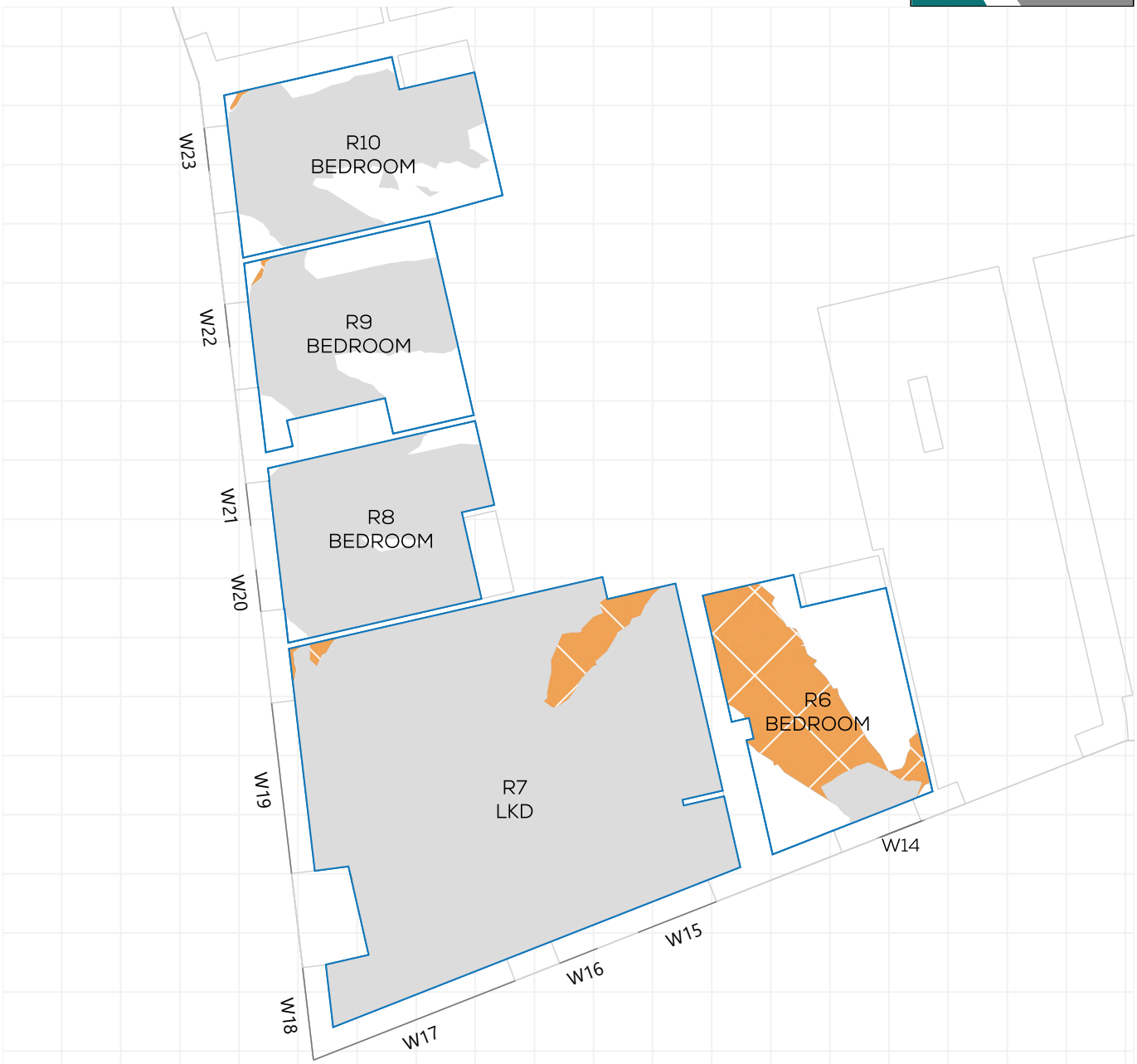
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F13	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F13	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F13	R3	RESIDENTIAL	BEDROOM	11.9	64	51.7	1.5	19.3
F13	R4	RESIDENTIAL	LKD	25.1	45.6	30.6	3.7	32.8
F13	R5	RESIDENTIAL	LKD	25.0	53.5	37.3	4.1	30.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD531

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





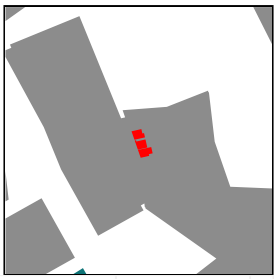
F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F13	R6	RESIDENTIAL	BEDROOM	11.9	54.8	8.3	5.5	84.9
F13	R7	RESIDENTIAL	LKD	39.1	100	96.3	1.5	3.7
F13	R8	RESIDENTIAL	BEDROOM	10.3	94.2	94.2	0.0	0
F13	R9	RESIDENTIAL	BEDROOM	10.3	63.4	63.1	0.0	0.6
F13	R10	RESIDENTIAL	BEDROOM	11.2	72.5	72.2	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD532

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





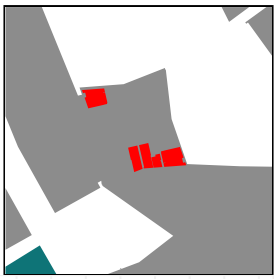
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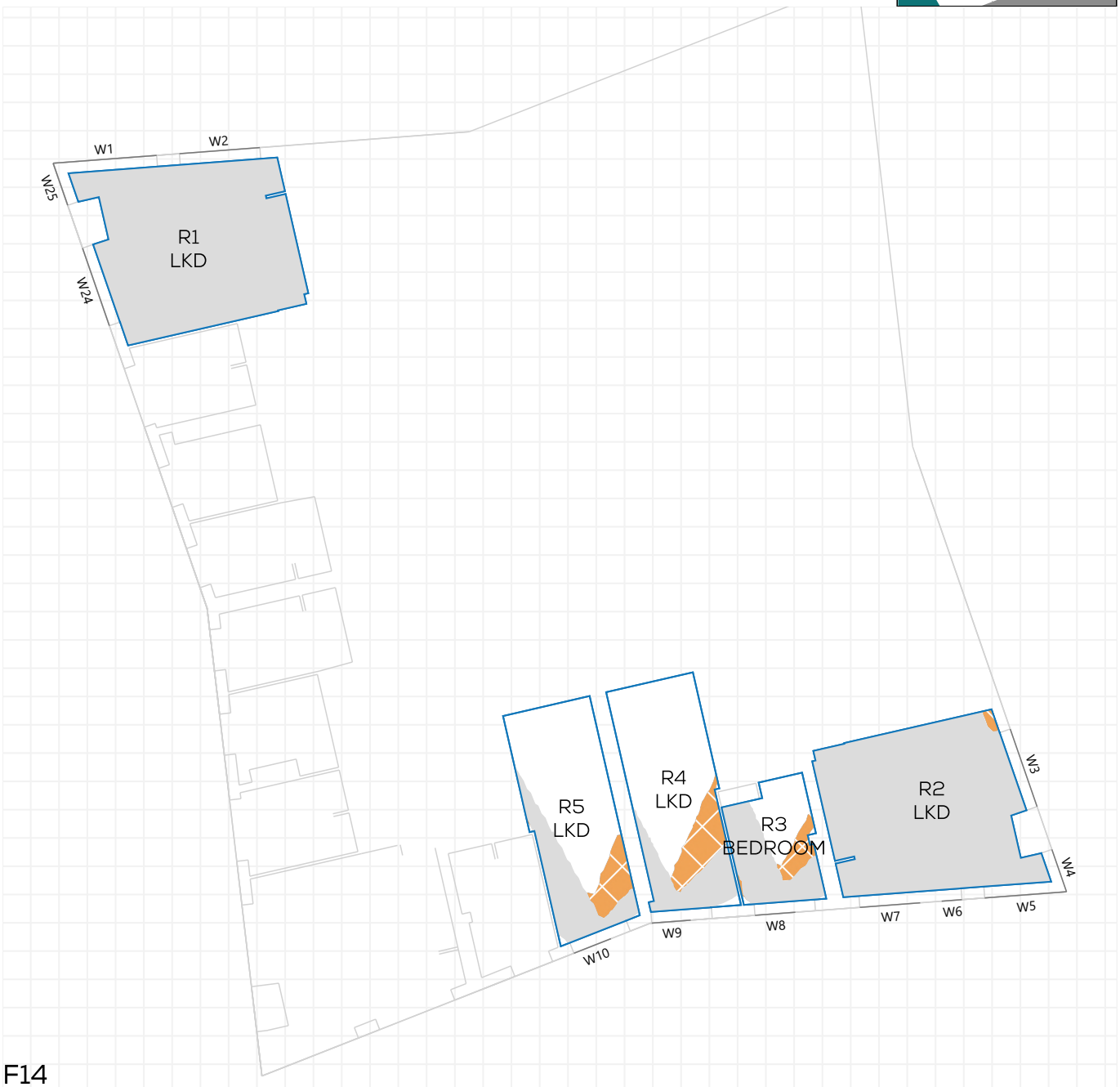
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F13	R11	RESIDENTIAL	BEDROOM	11.1	77.6	76.6	0.1	1.2
F13	R12	RESIDENTIAL	BEDROOM	9.5	76.2	75.4	0.1	1
F13	R13	RESIDENTIAL	BEDROOM	10.3	91.1	91	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD533

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





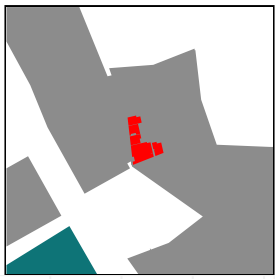
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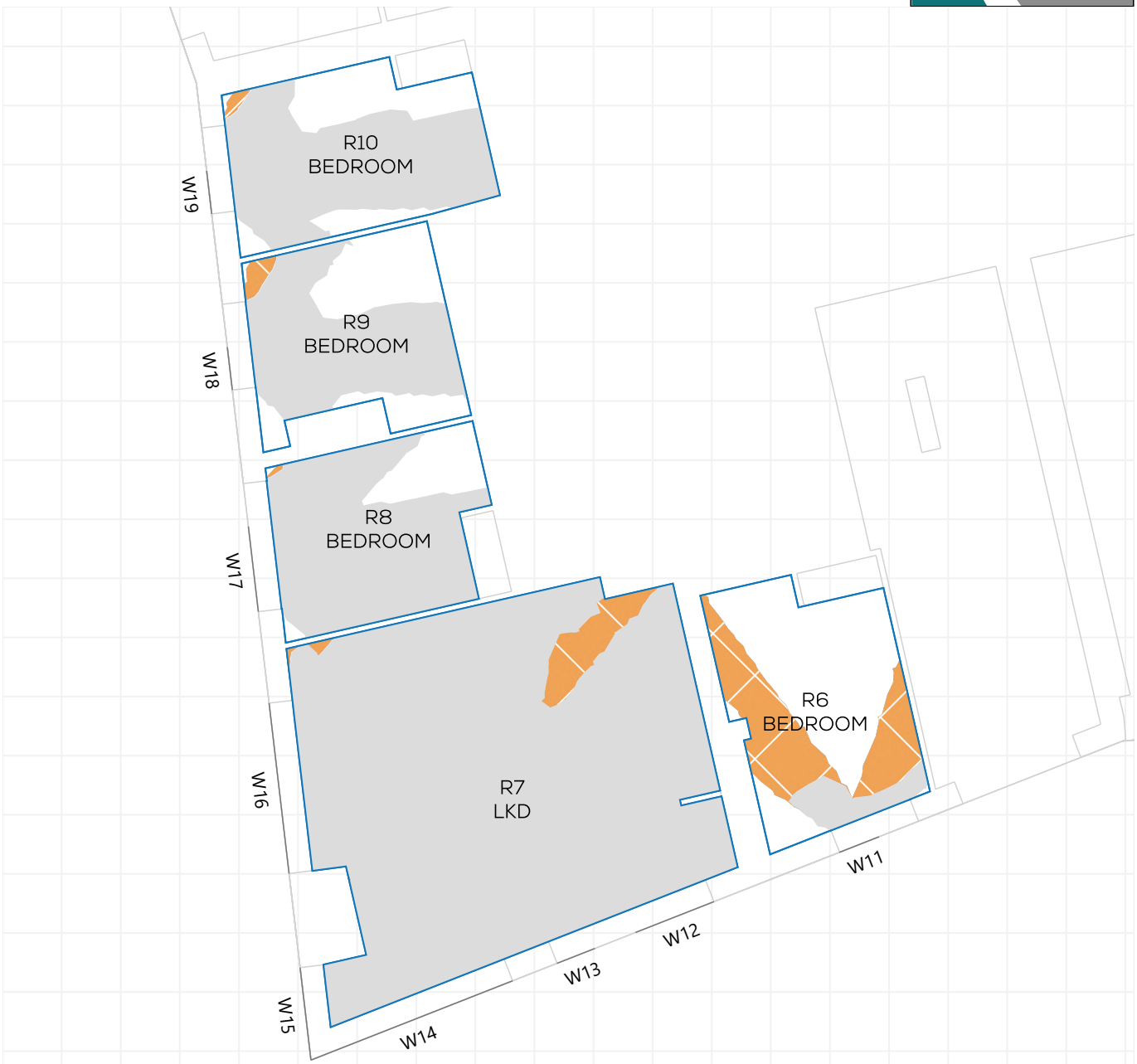
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F14	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F14	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F14	R3	RESIDENTIAL	BEDROOM	11.9	64	51.8	1.5	19.1
F14	R4	RESIDENTIAL	LKD	25.1	32.4	19.3	3.3	40.6
F14	R5	RESIDENTIAL	LKD	25.0	34.5	25.5	2.3	26.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD534

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F14	R6	RESIDENTIAL	BEDROOM	11.9	41.6	9.5	3.8	77.2
F14	R7	RESIDENTIAL	LKD	39.1	100	96.5	1.4	3.5
F14	R8	RESIDENTIAL	BEDROOM	10.3	82.7	82.5	0.0	0.3
F14	R9	RESIDENTIAL	BEDROOM	10.3	64.7	62.5	0.2	3.4
F14	R10	RESIDENTIAL	BEDROOM	11.2	72.3	71.4	0.1	1.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD535

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



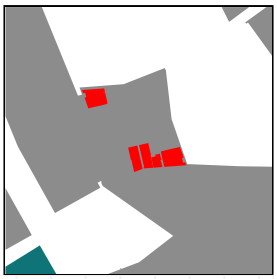
F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F14	R11	RESIDENTIAL	BEDROOM	11.1	71.2	69	0.2	3.1
F14	R12	RESIDENTIAL	BEDROOM	9.5	73.6	71.7	0.2	2.6
F14	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD536

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





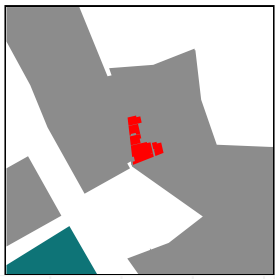
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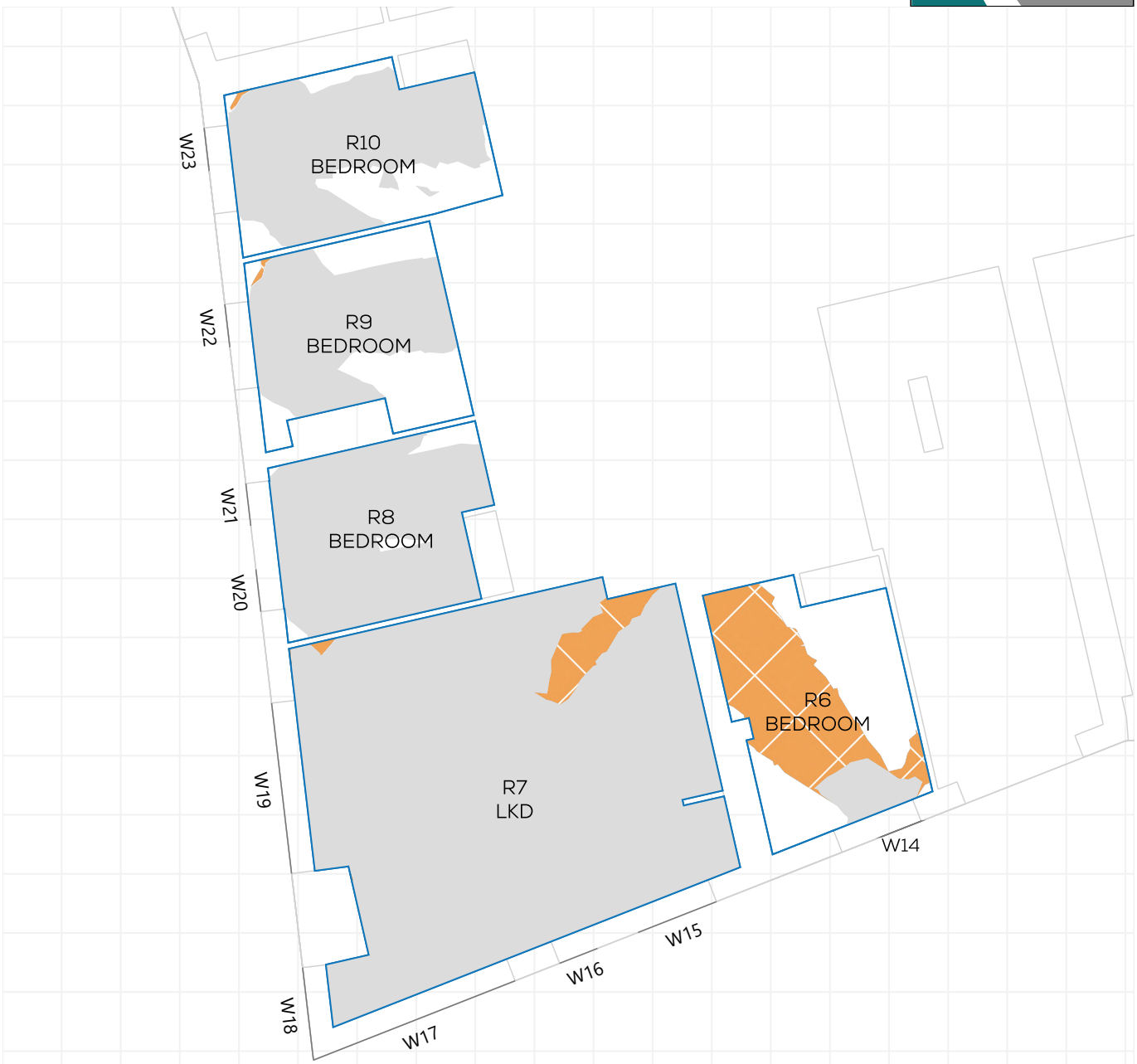
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F15	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F15	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F15	R3	RESIDENTIAL	BEDROOM	11.9	64	51.9	1.5	19
F15	R4	RESIDENTIAL	LKD	25.1	45.7	30.8	3.7	32.5
F15	R5	RESIDENTIAL	LKD	25.0	53.5	37.4	4.0	30

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD537

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





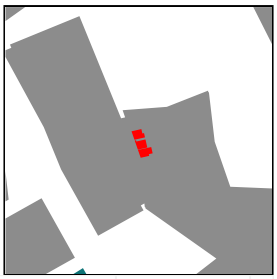
F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F15	R6	RESIDENTIAL	BEDROOM	11.9	54.8	9.3	5.4	83
F15	R7	RESIDENTIAL	LKD	39.1	100	96.5	1.4	3.5
F15	R8	RESIDENTIAL	BEDROOM	10.3	94.7	94.7	0.0	0
F15	R9	RESIDENTIAL	BEDROOM	10.3	65.5	65.1	0.0	0.5
F15	R10	RESIDENTIAL	BEDROOM	11.2	74.9	74.6	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD538

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





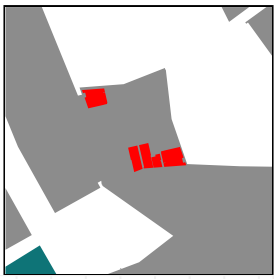
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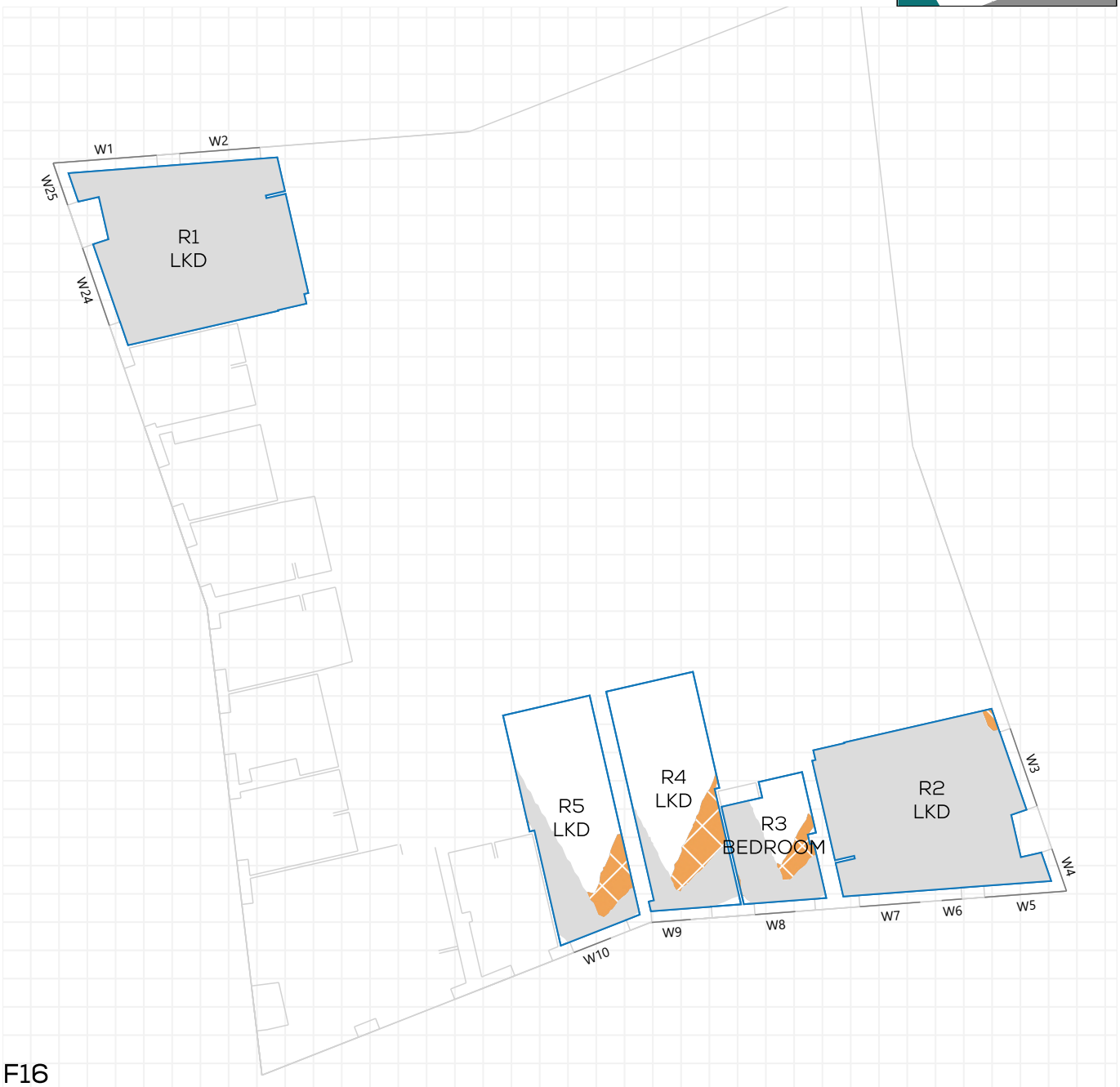
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F15	R11	RESIDENTIAL	BEDROOM	11.1	80.2	79.3	0.1	1.2
F15	R12	RESIDENTIAL	BEDROOM	9.5	77.8	77	0.1	1
F15	R13	RESIDENTIAL	BEDROOM	10.3	90.9	90.8	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD539

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





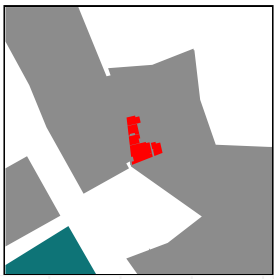
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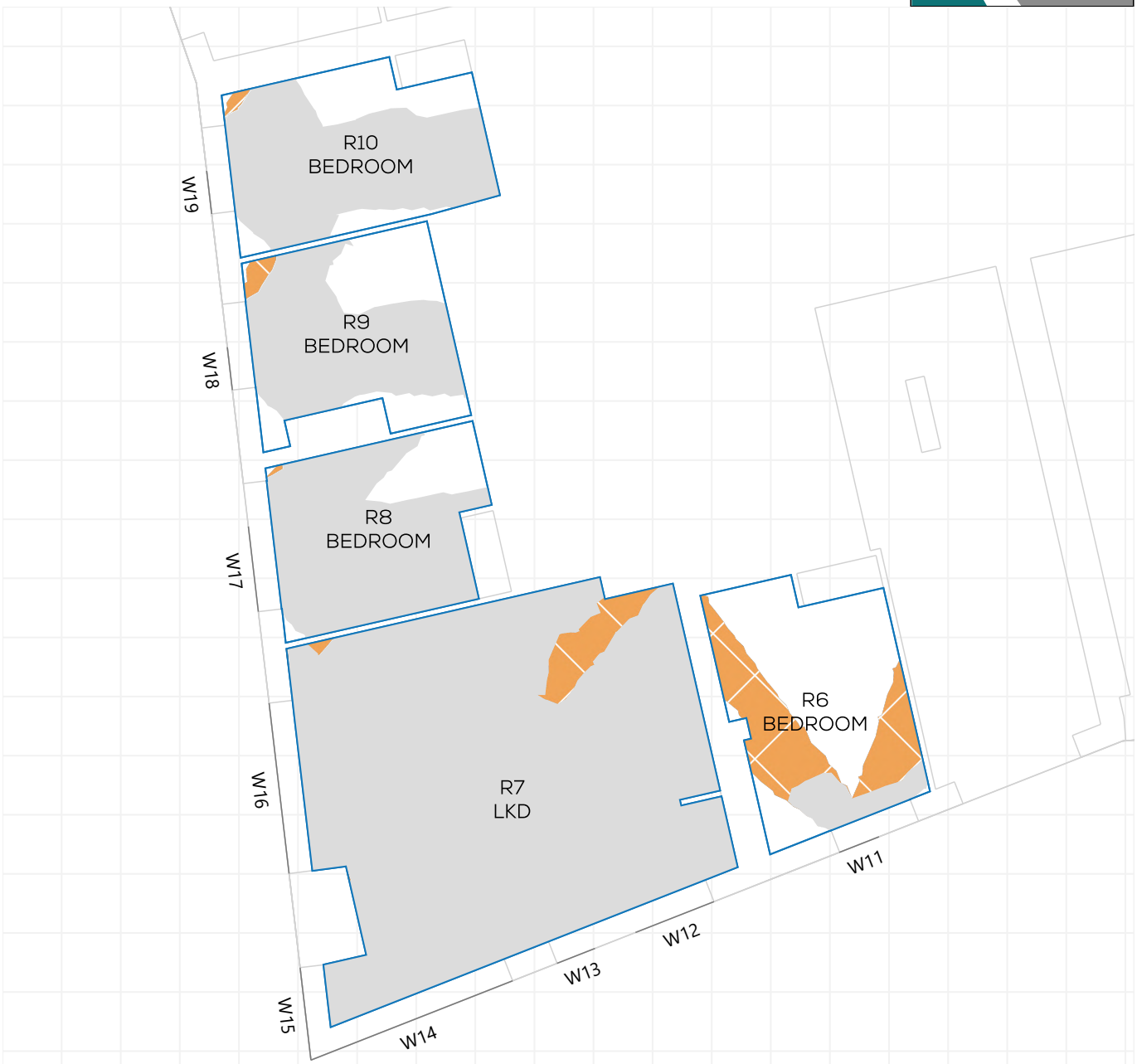
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F16	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F16	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F16	R3	RESIDENTIAL	BEDROOM	11.9	64	51.9	1.4	18.9
F16	R4	RESIDENTIAL	LKD	25.1	32.5	19.3	3.3	40.6
F16	R5	RESIDENTIAL	LKD	25.0	34.6	25.5	2.3	26.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD540

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





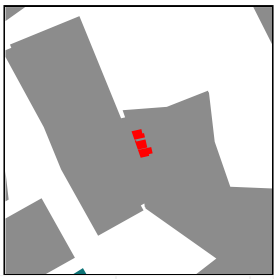
F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F16	R6	RESIDENTIAL	BEDROOM	11.9	41.7	10.4	3.7	75.2
F16	R7	RESIDENTIAL	LKD	39.1	100	96.6	1.3	3.4
F16	R8	RESIDENTIAL	BEDROOM	10.3	83	82.8	0.0	0.2
F16	R9	RESIDENTIAL	BEDROOM	10.3	67.8	65.7	0.2	3.1
F16	R10	RESIDENTIAL	BEDROOM	11.2	76	75.1	0.1	1.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD541

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





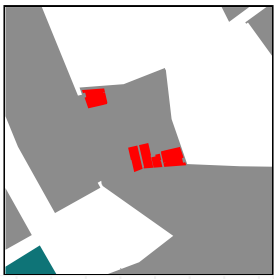
F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F16	R11	RESIDENTIAL	BEDROOM	11.1	74.2	72.3	0.2	2.5
F16	R12	RESIDENTIAL	BEDROOM	9.5	77.3	75.5	0.2	2.3
F16	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD542

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





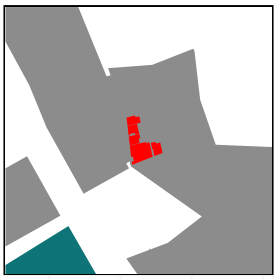
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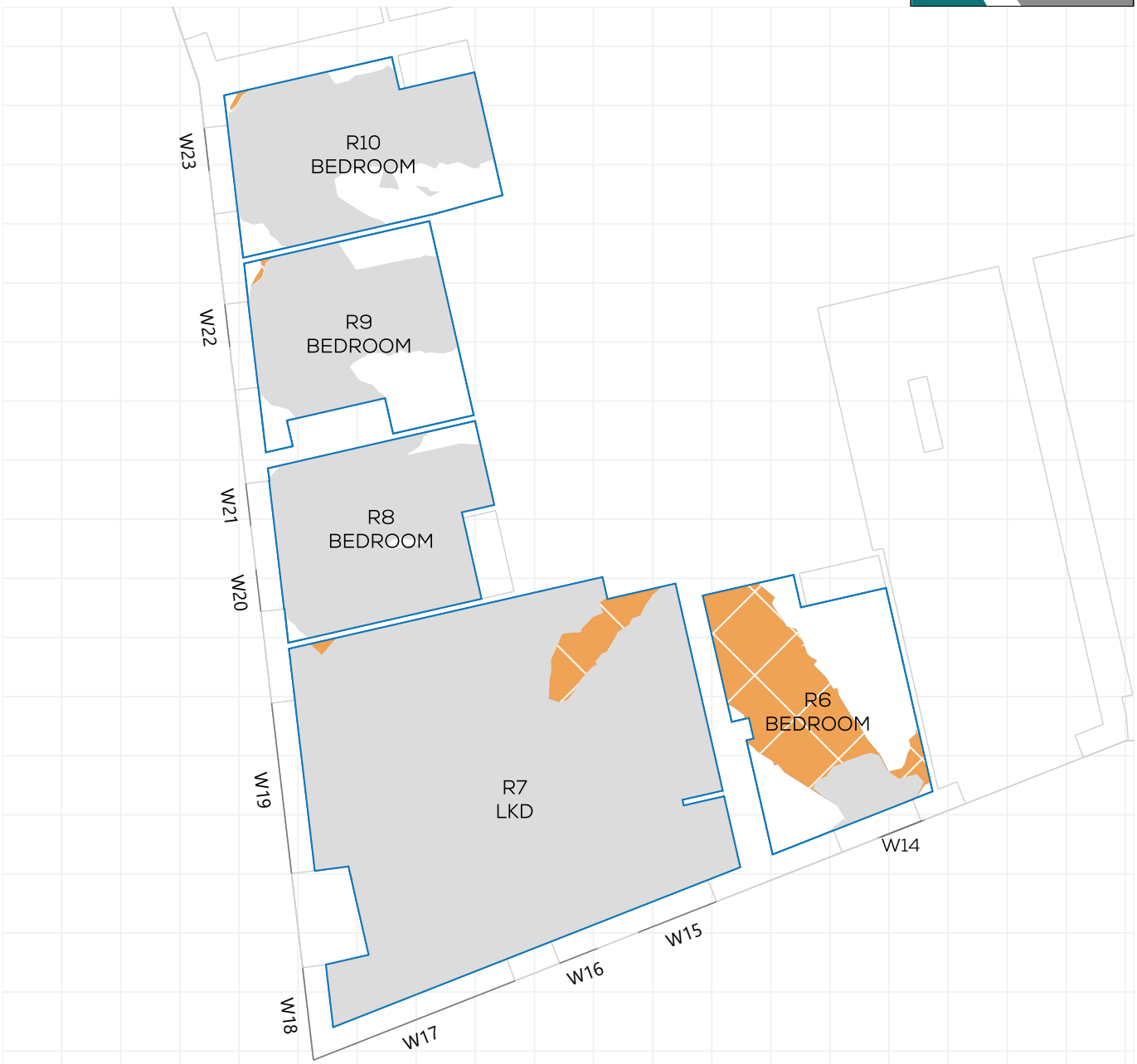
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F17	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F17	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F17	R3	RESIDENTIAL	BEDROOM	11.9	64	52	1.4	18.8
F17	R4	RESIDENTIAL	LKD	25.1	45.9	31.2	3.7	32
F17	R5	RESIDENTIAL	LKD	25.0	53.5	37.8	3.9	29.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD543

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F17	R6	RESIDENTIAL	BEDROOM	11.9	55	10.6	5.3	80.8
F17	R7	RESIDENTIAL	LKD	39.1	100	96.6	1.3	3.4
F17	R8	RESIDENTIAL	BEDROOM	10.3	95.2	95.2	0.0	0
F17	R9	RESIDENTIAL	BEDROOM	10.3	68.8	68.4	0.0	0.5
F17	R10	RESIDENTIAL	BEDROOM	11.2	77.6	77.3	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD544

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



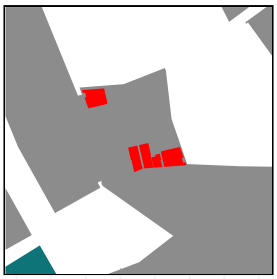
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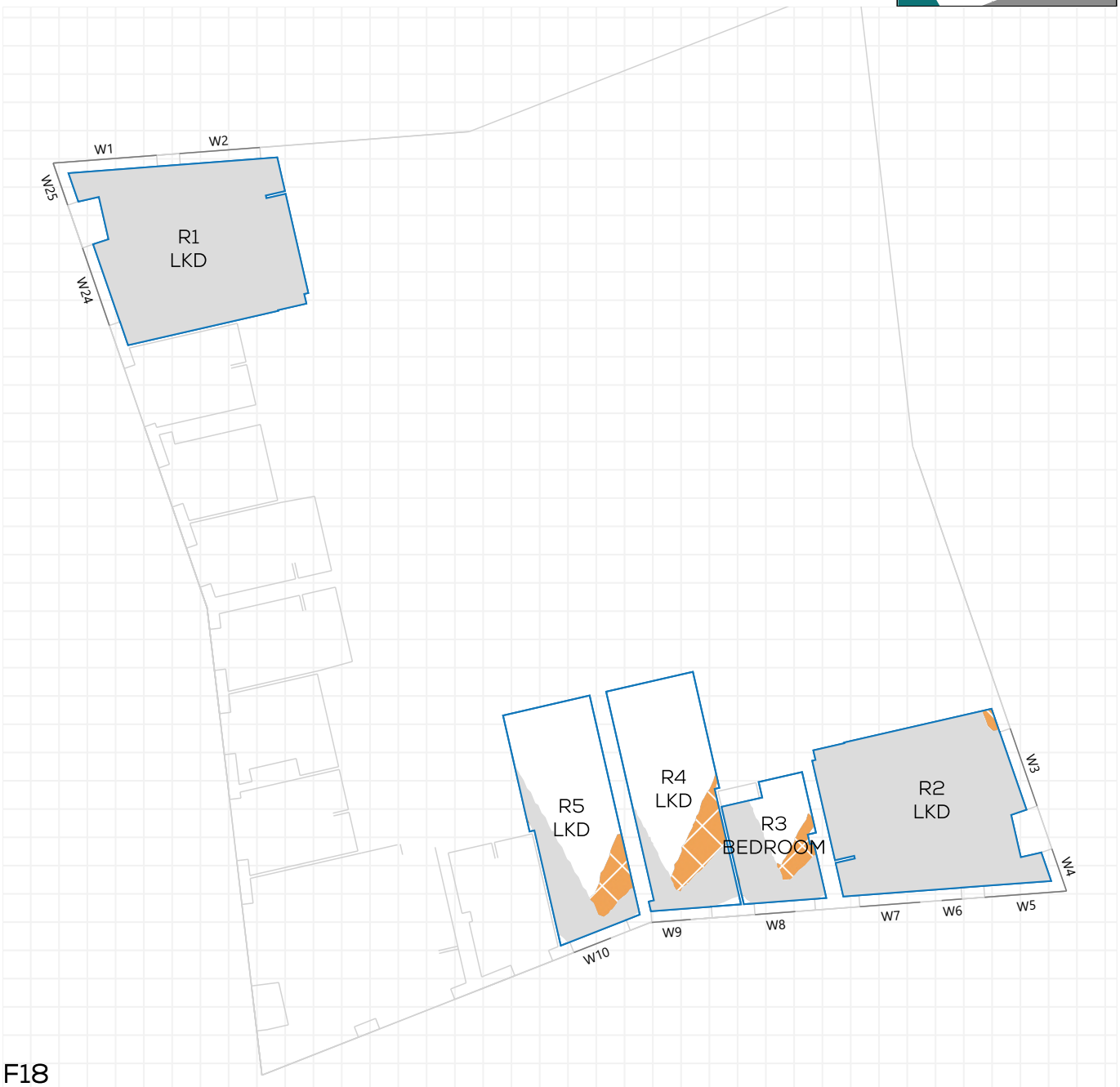
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F17	R11	RESIDENTIAL	BEDROOM	11.1	83.7	82.8	0.1	1
F17	R12	RESIDENTIAL	BEDROOM	9.5	79.2	78.6	0.1	0.8
F17	R13	RESIDENTIAL	BEDROOM	10.3	91.1	91.1	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD545

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





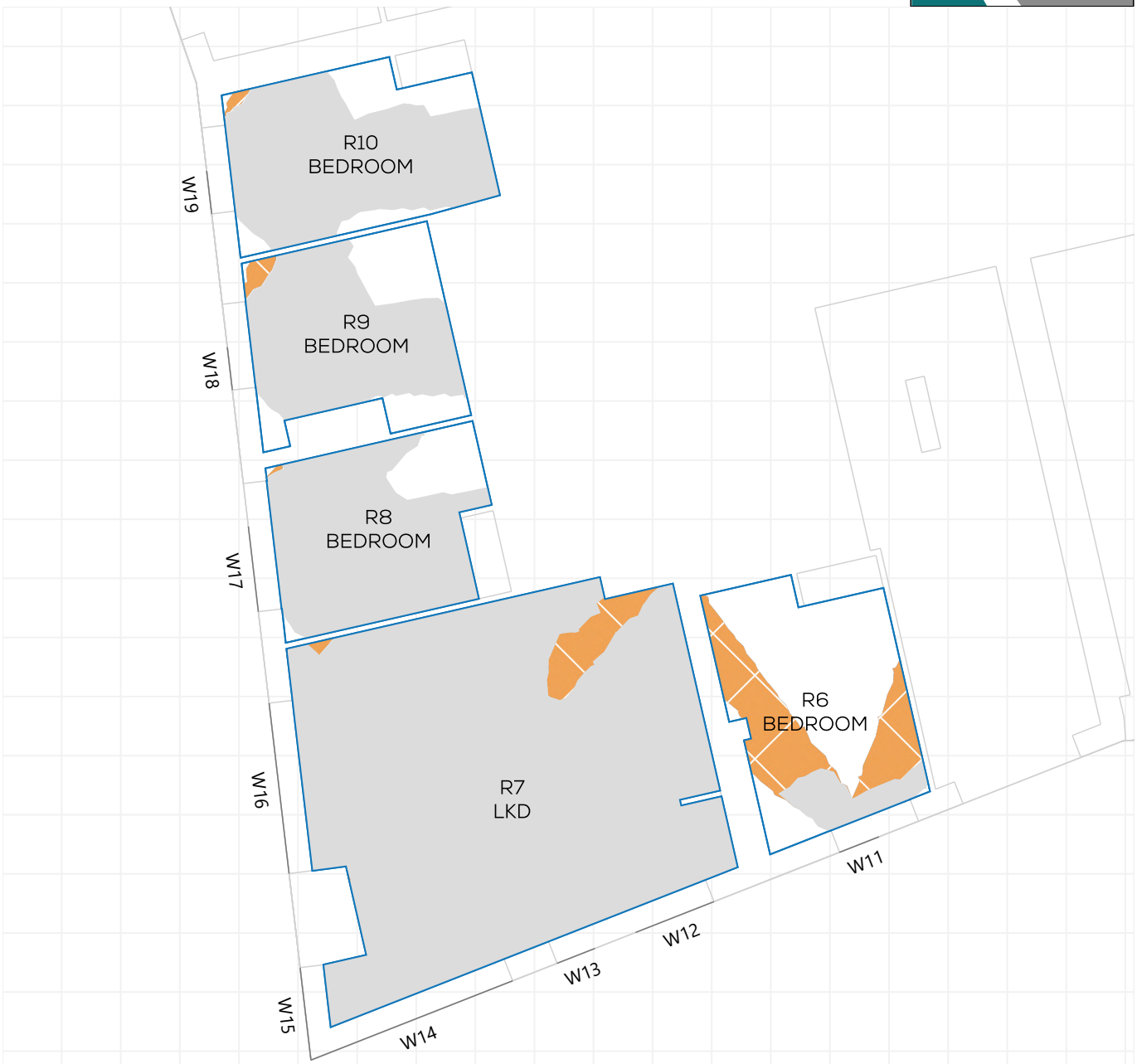
F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F18	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F18	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F18	R3	RESIDENTIAL	BEDROOM	11.9	64	52	1.4	18.7
F18	R4	RESIDENTIAL	LKD	25.1	32.5	19.3	3.3	40.6
F18	R5	RESIDENTIAL	LKD	25.0	34.5	25.5	2.2	25.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD546

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F18	R6	RESIDENTIAL	BEDROOM	11.9	41.7	11.5	3.6	72.5
F18	R7	RESIDENTIAL	LKD	39.1	100	96.7	1.3	3.3
F18	R8	RESIDENTIAL	BEDROOM	10.3	84.6	84.5	0.0	0.2
F18	R9	RESIDENTIAL	BEDROOM	10.3	73.9	71.9	0.2	2.7
F18	R10	RESIDENTIAL	BEDROOM	11.2	81.7	81	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD547

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



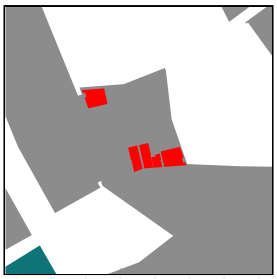
F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F18	R11	RESIDENTIAL	BEDROOM	11.1	79.9	78.2	0.2	2.1
F18	R12	RESIDENTIAL	BEDROOM	9.5	83.2	81.6	0.2	2
F18	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD548

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





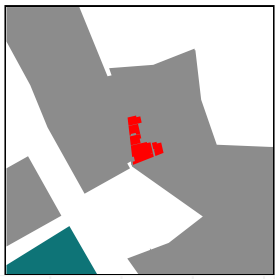
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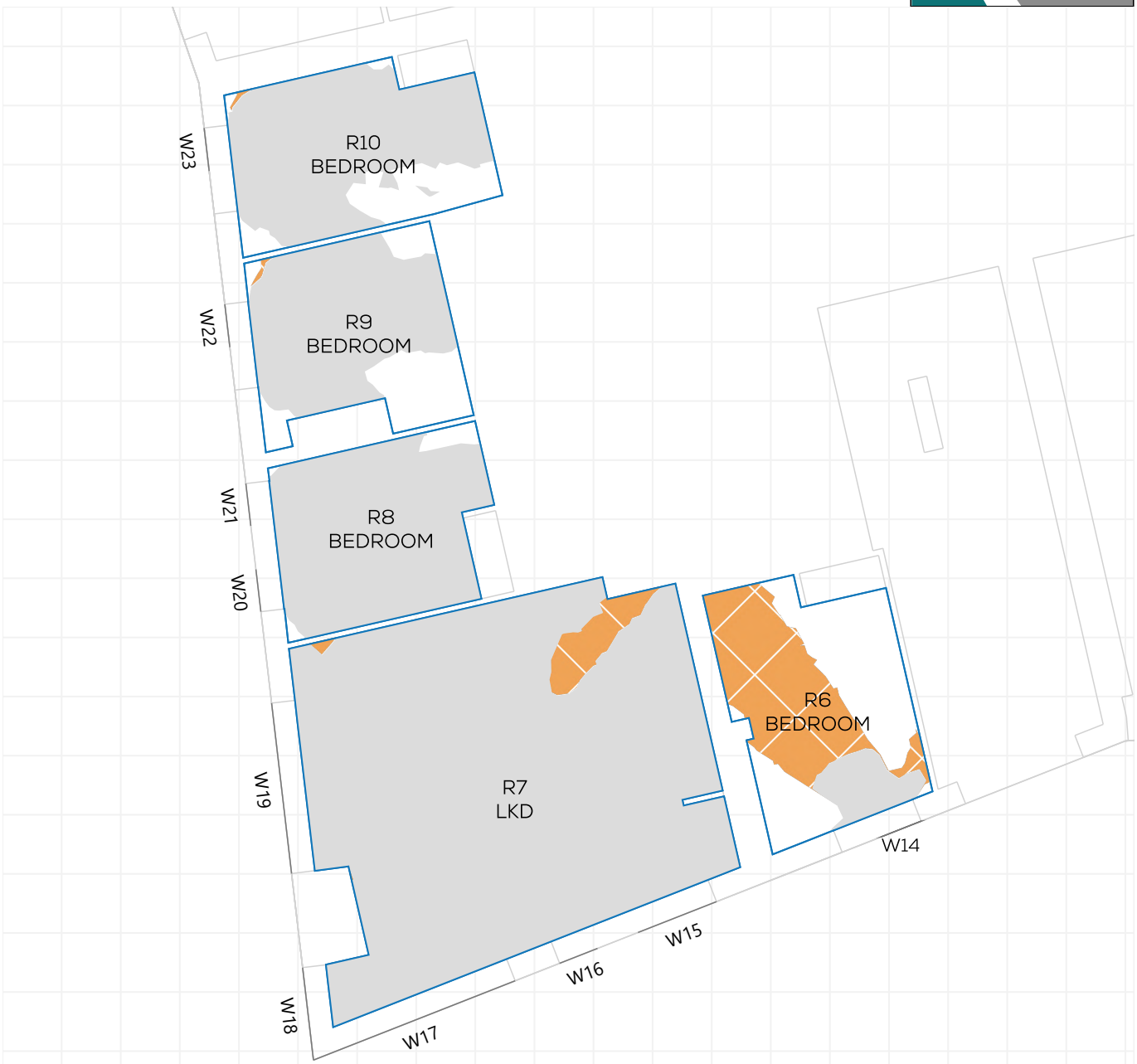
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F19	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F19	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F19	R3	RESIDENTIAL	BEDROOM	11.9	64	52.1	1.4	18.5
F19	R4	RESIDENTIAL	LKD	25.1	45.9	31.3	3.7	31.8
F19	R5	RESIDENTIAL	LKD	25.0	53.5	38.3	3.8	28.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD549

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





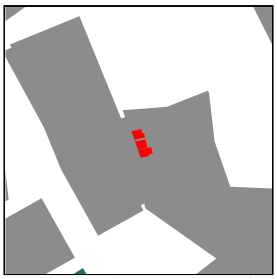
F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F19	R6	RESIDENTIAL	BEDROOM	11.9	55.1	11.8	5.2	78.6
F19	R7	RESIDENTIAL	LKD	39.1	100	96.7	1.3	3.3
F19	R8	RESIDENTIAL	BEDROOM	10.3	96.1	96.1	0.0	0
F19	R9	RESIDENTIAL	BEDROOM	10.3	74.3	74	0.0	0.4
F19	R10	RESIDENTIAL	BEDROOM	11.2	80.8	80.5	0.0	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD550

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





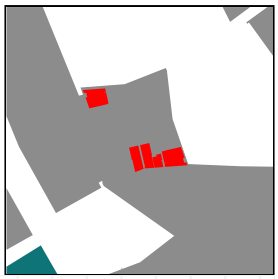
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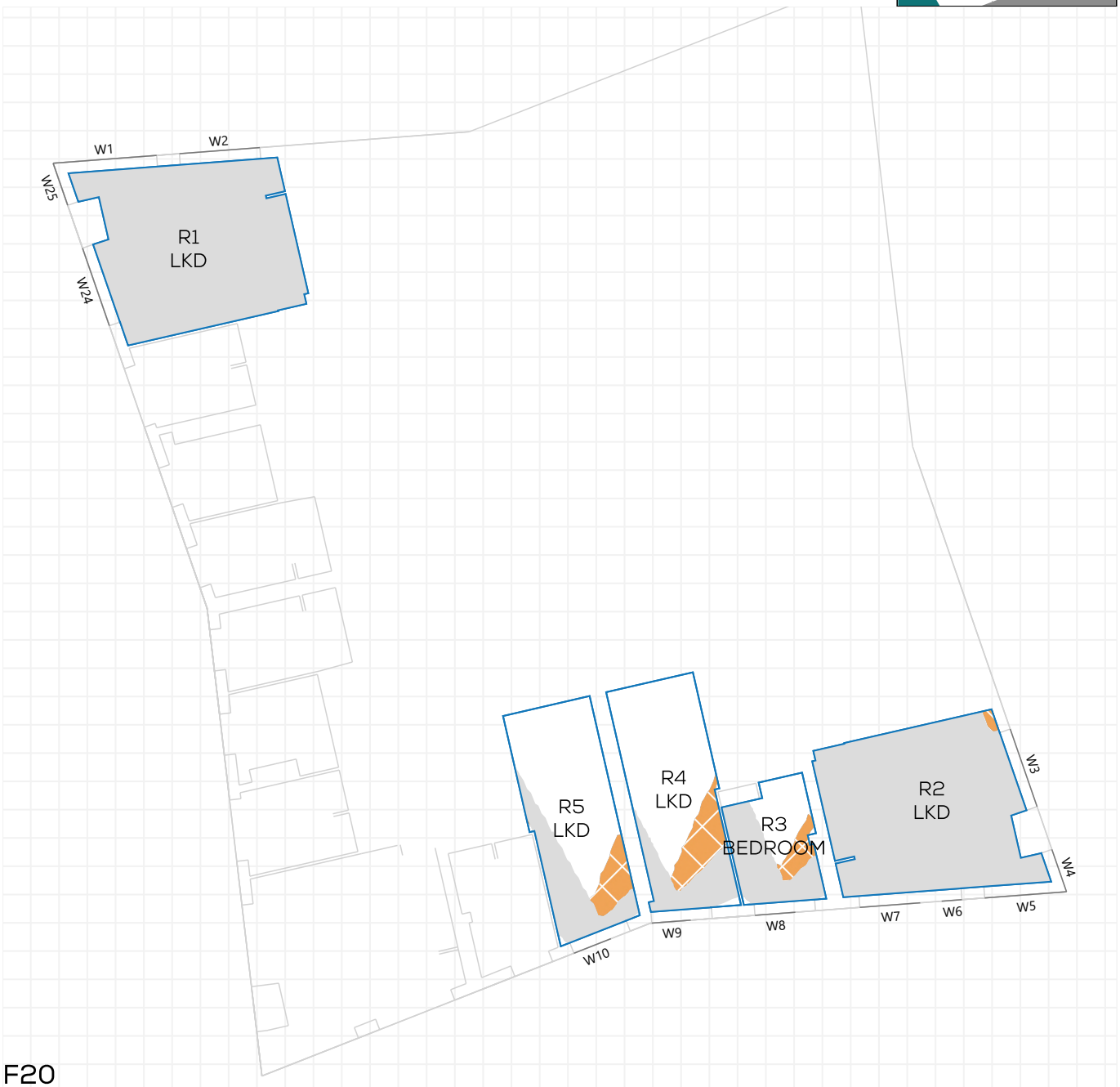
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F19	R11	RESIDENTIAL	BEDROOM	11.1	88.1	87.3	0.1	0.8
F19	R12	RESIDENTIAL	BEDROOM	9.5	80.7	80.2	0.0	0.6
F19	R13	RESIDENTIAL	BEDROOM	10.3	91.6	91.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD551

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





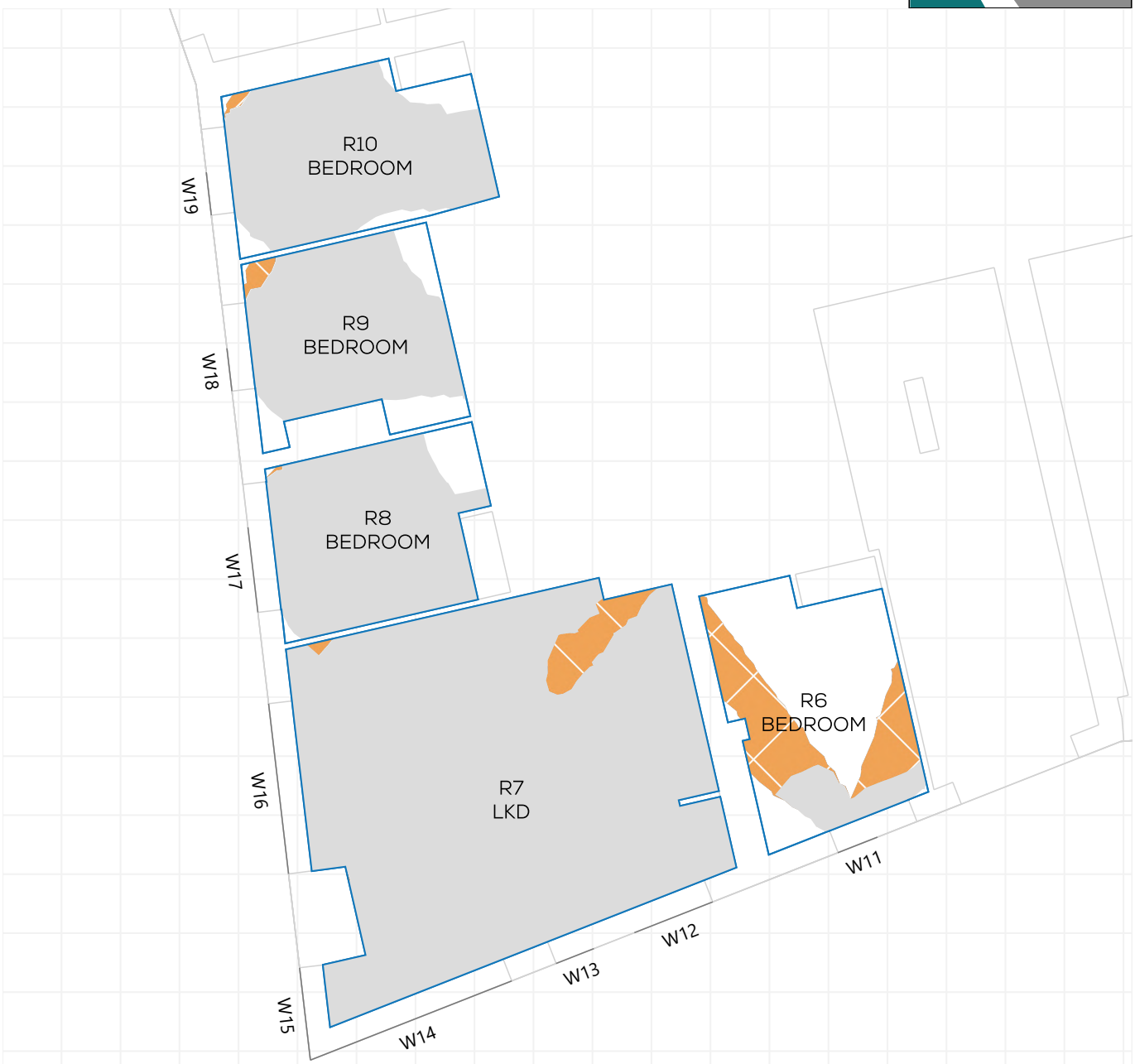
F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F20	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F20	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F20	R3	RESIDENTIAL	BEDROOM	11.9	64	52.3	1.4	18.4
F20	R4	RESIDENTIAL	LKD	25.1	32.6	19.3	3.3	40.6
F20	R5	RESIDENTIAL	LKD	25.0	34.5	25.6	2.2	25.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD552

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



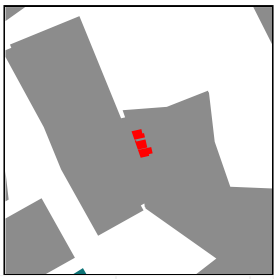
F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F20	R6	RESIDENTIAL	BEDROOM	11.9	41.7	12.4	3.5	70.1
F20	R7	RESIDENTIAL	LKD	39.1	100	96.8	1.3	3.2
F20	R8	RESIDENTIAL	BEDROOM	10.3	91	90.9	0.0	0.1
F20	R9	RESIDENTIAL	BEDROOM	10.3	84.8	82.9	0.2	2.2
F20	R10	RESIDENTIAL	BEDROOM	11.2	90.7	90	0.1	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD553

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





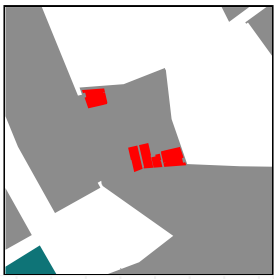
F20

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F20	R11	RESIDENTIAL	BEDROOM	11.1	89	87.5	0.2	1.8
F20	R12	RESIDENTIAL	BEDROOM	9.5	91.4	90.3	0.1	1.3
F20	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD554

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





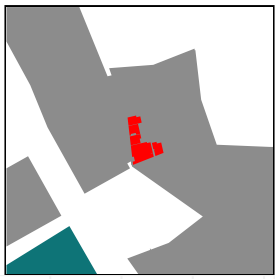
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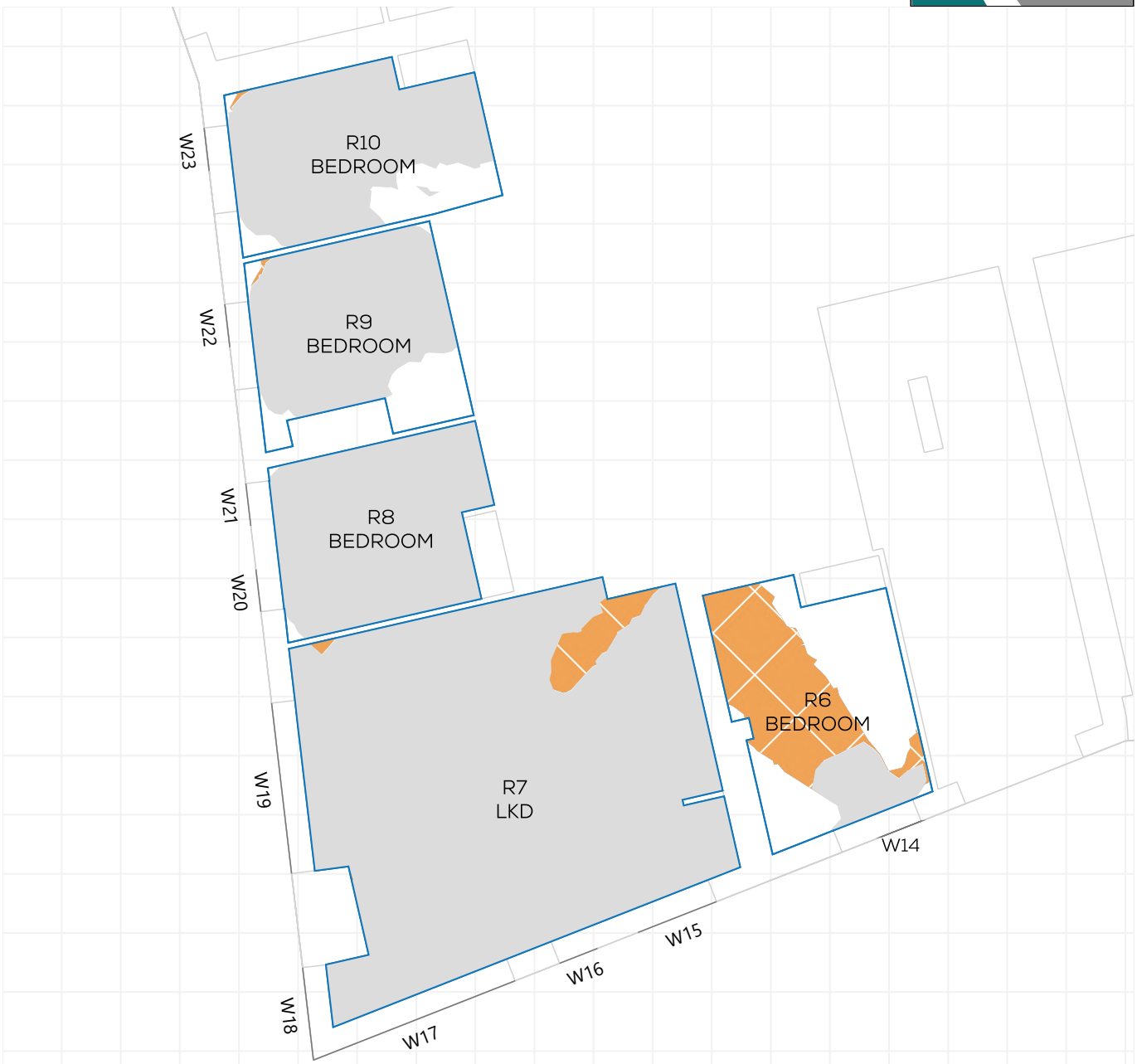
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F21	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F21	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F21	R3	RESIDENTIAL	BEDROOM	11.9	64	52.2	1.4	18.4
F21	R4	RESIDENTIAL	LKD	25.1	45.9	31.6	3.6	31.3
F21	R5	RESIDENTIAL	LKD	25.0	53.5	38.3	3.8	28.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD555

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





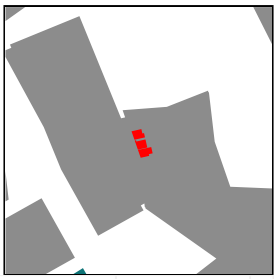
F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F21	R6	RESIDENTIAL	BEDROOM	11.9	55.1	13	5.0	76.5
F21	R7	RESIDENTIAL	LKD	39.1	100	96.8	1.3	3.2
F21	R8	RESIDENTIAL	BEDROOM	10.3	99.2	99.2	0.0	0
F21	R9	RESIDENTIAL	BEDROOM	10.3	81.2	80.9	0.0	0.3
F21	R10	RESIDENTIAL	BEDROOM	11.2	84	83.7	0.0	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD556

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





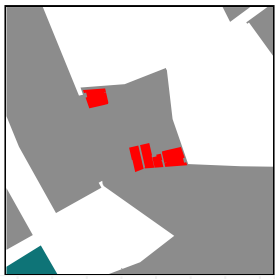
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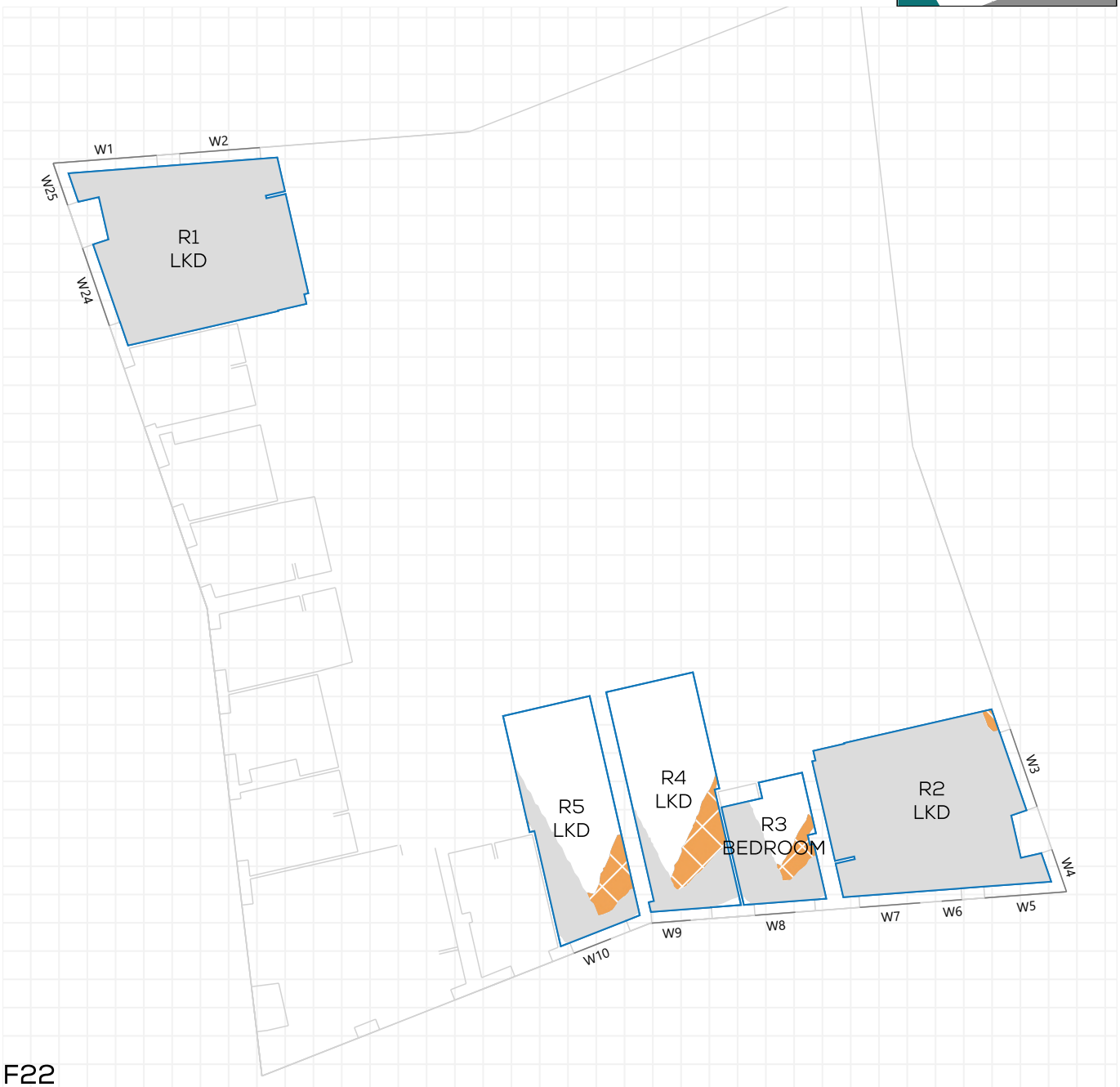
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F21	R11	RESIDENTIAL	BEDROOM	11.1	92.1	91.5	0.1	0.7
F21	R12	RESIDENTIAL	BEDROOM	9.5	83.8	83.4	0.0	0.5
F21	R13	RESIDENTIAL	BEDROOM	10.3	92	92	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD557

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





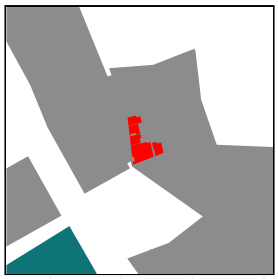
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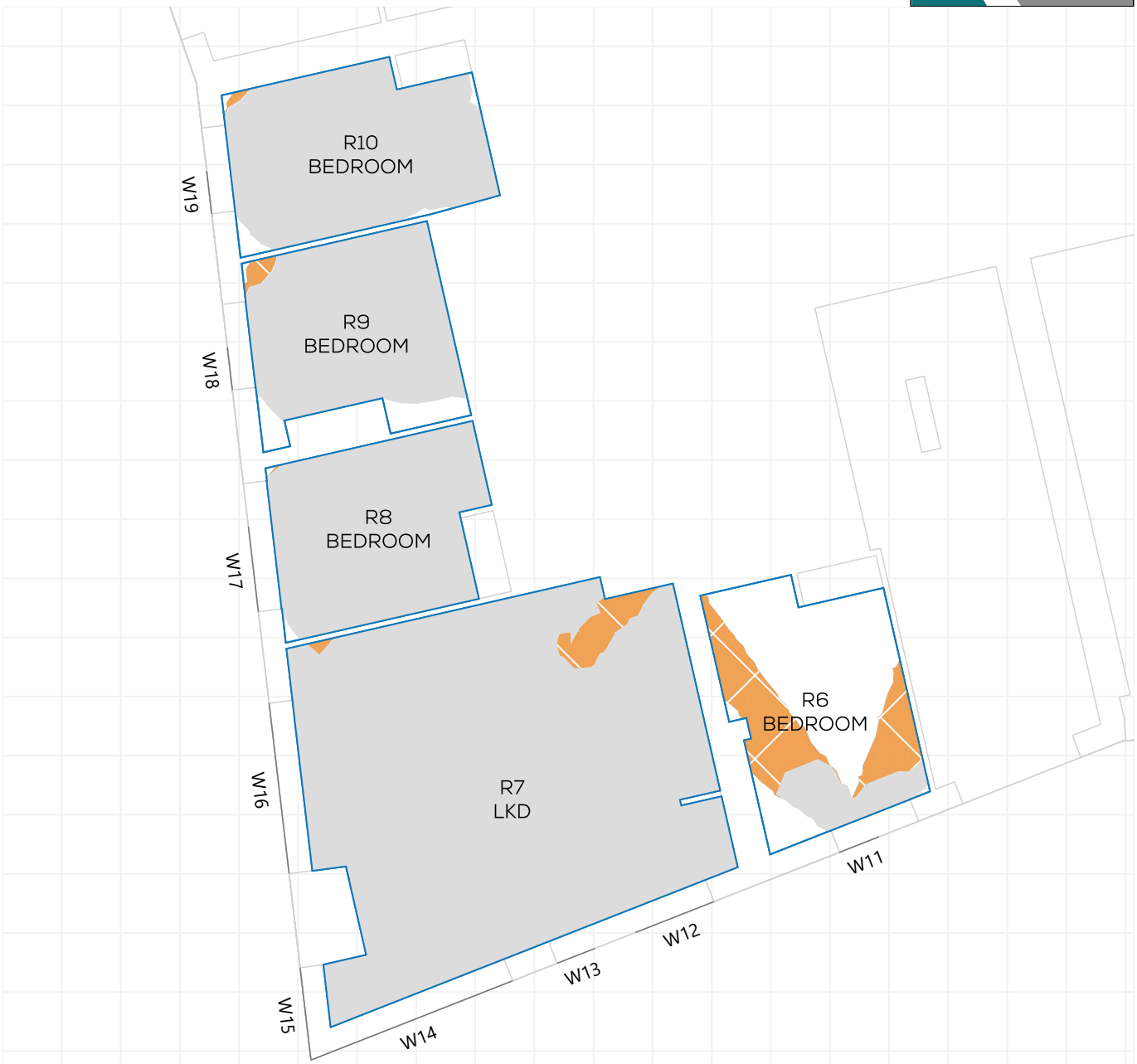
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F22	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F22	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F22	R3	RESIDENTIAL	BEDROOM	11.9	64	52.2	1.4	18.3
F22	R4	RESIDENTIAL	LKD	25.1	32.5	19.4	3.3	40.4
F22	R5	RESIDENTIAL	LKD	25.0	34.6	25.7	2.2	25.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD558

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





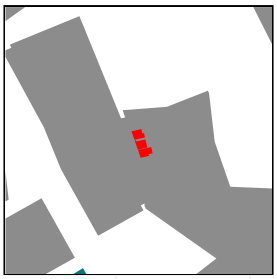
F22

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F22	R6	RESIDENTIAL	BEDROOM	11.9	41.7	13.7	3.3	67.2
F22	R7	RESIDENTIAL	LKD	39.1	100	97.5	1.0	2.5
F22	R8	RESIDENTIAL	BEDROOM	10.3	99.3	99.2	0.0	0.1
F22	R9	RESIDENTIAL	BEDROOM	10.3	91.2	89.4	0.2	1.9
F22	R10	RESIDENTIAL	BEDROOM	11.2	97.3	96.8	0.1	0.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD559

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





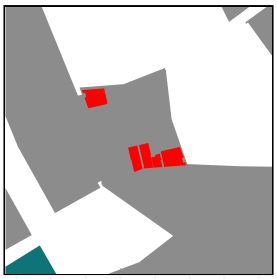
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F22	R11	RESIDENTIAL	BEDROOM	11.1	97.8	96.3	0.2	1.5
F22	R12	RESIDENTIAL	BEDROOM	9.5	95.1	94	0.1	1.2
F22	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD560

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





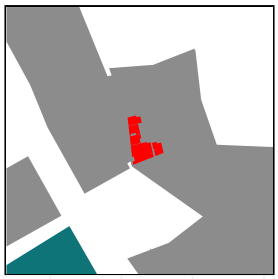
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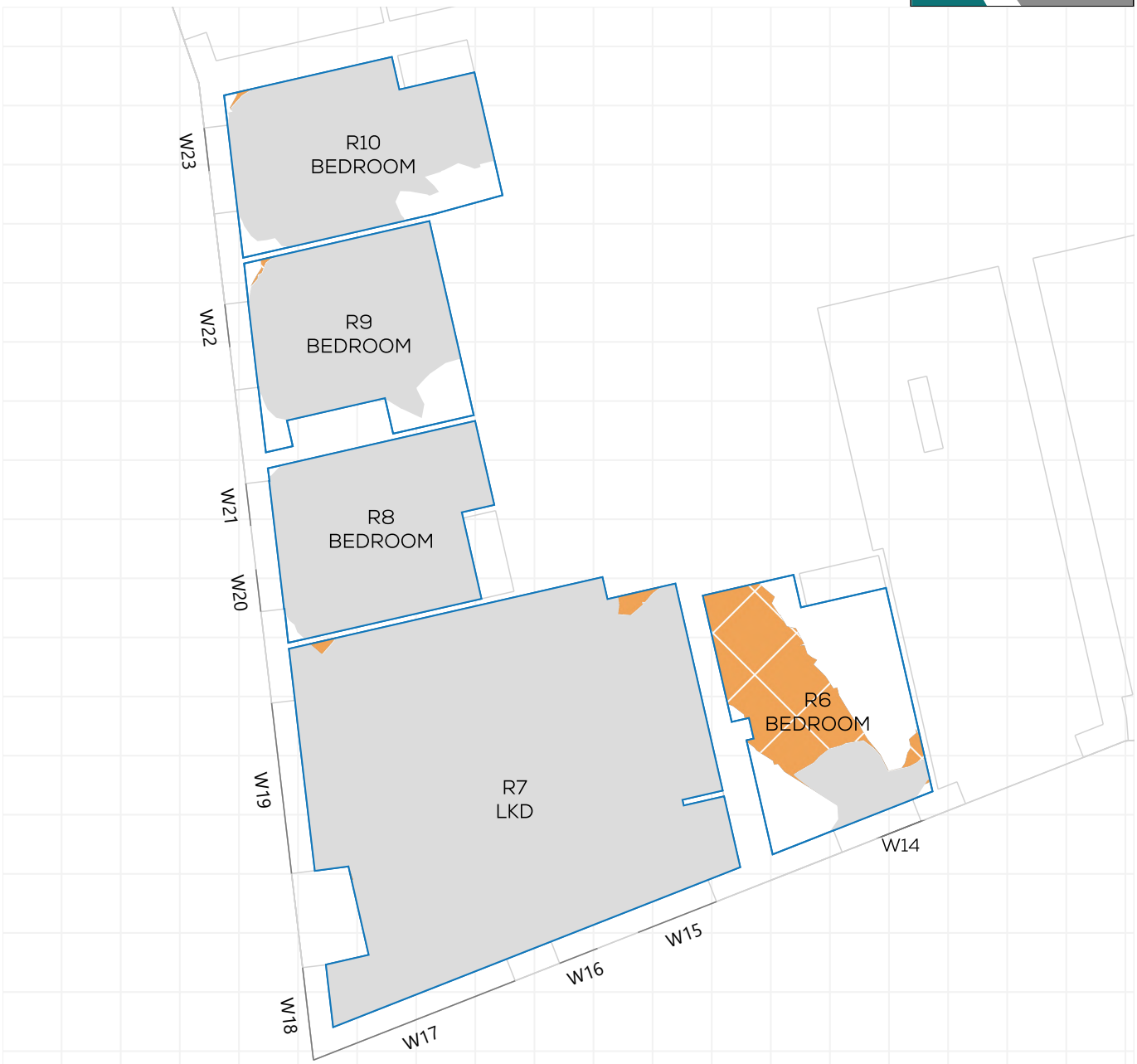
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F23	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F23	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F23	R3	RESIDENTIAL	BEDROOM	11.9	64	52.2	1.4	18.4
F23	R4	RESIDENTIAL	LKD	25.1	45.9	31.9	3.5	30.5
F23	R5	RESIDENTIAL	LKD	25.0	53.5	38.5	3.8	28.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD561

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





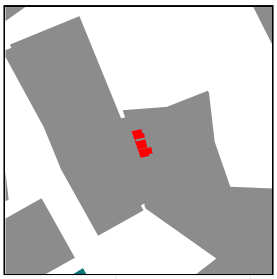
F23

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F23	R6	RESIDENTIAL	BEDROOM	11.9	55.2	15.1	4.8	72.6
F23	R7	RESIDENTIAL	LKD	39.1	100	99.4	0.2	0.6
F23	R8	RESIDENTIAL	BEDROOM	10.3	99.2	99.2	0.0	0
F23	R9	RESIDENTIAL	BEDROOM	10.3	87.4	87.1	0.0	0.3
F23	R10	RESIDENTIAL	BEDROOM	11.2	89.1	88.8	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD562

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





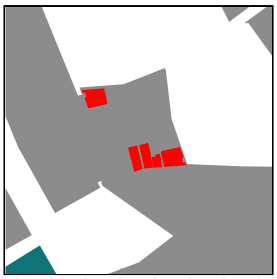
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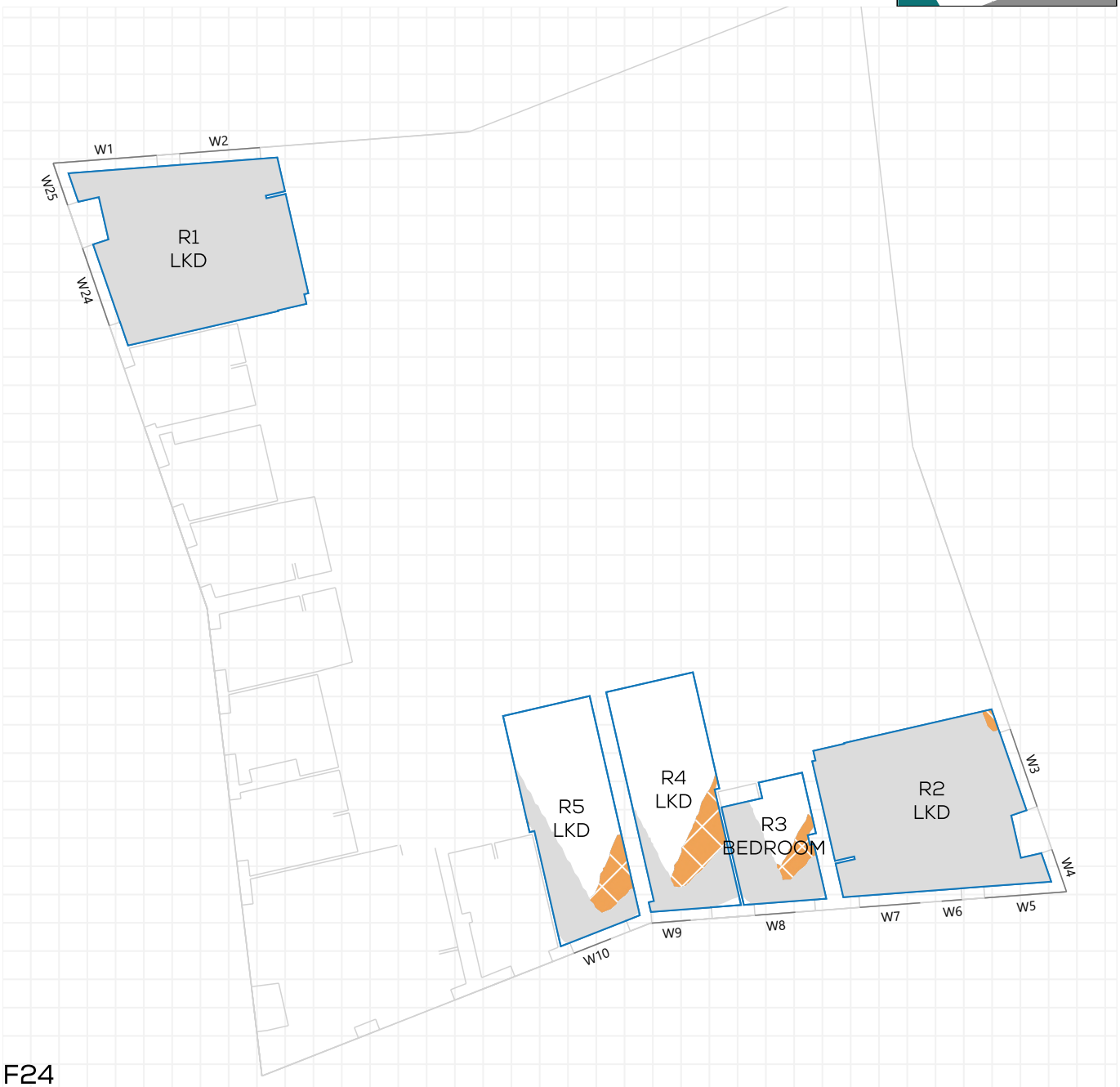
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F23	R11	RESIDENTIAL	BEDROOM	11.1	96.6	96.1	0.1	0.5
F23	R12	RESIDENTIAL	BEDROOM	9.5	89.3	89.1	0.0	0.2
F23	R13	RESIDENTIAL	BEDROOM	10.3	94.3	94.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD563

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





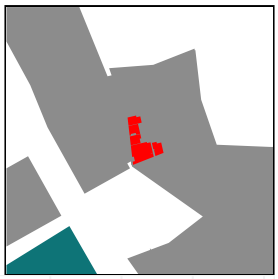
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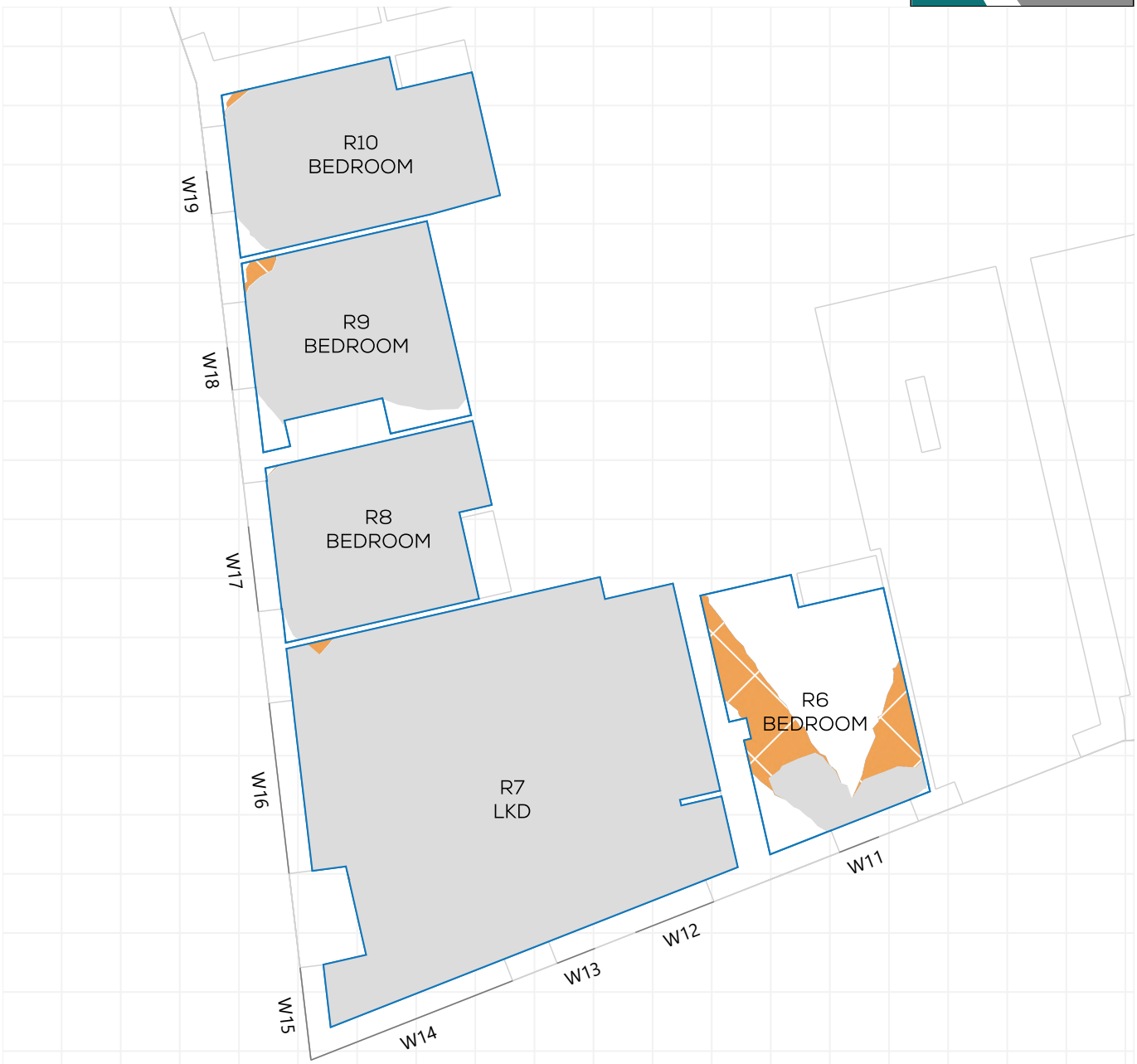
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F24	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F24	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F24	R3	RESIDENTIAL	BEDROOM	11.9	64	52.3	1.4	18.3
F24	R4	RESIDENTIAL	LKD	25.1	32.5	19.5	3.3	40
F24	R5	RESIDENTIAL	LKD	25.0	34.5	25.9	2.1	24.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD564

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





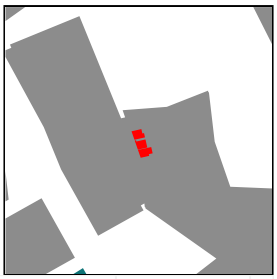
F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F24	R6	RESIDENTIAL	BEDROOM	11.9	41.7	15.7	3.1	62.4
F24	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.1	0.1
F24	R8	RESIDENTIAL	BEDROOM	10.3	99.4	99.4	0.0	0
F24	R9	RESIDENTIAL	BEDROOM	10.3	92.7	91.2	0.2	1.6
F24	R10	RESIDENTIAL	BEDROOM	11.2	98.2	97.8	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD565

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





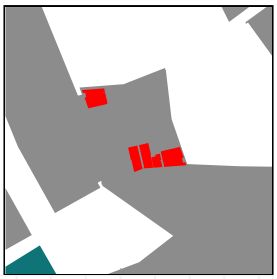
F24

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F24	R11	RESIDENTIAL	BEDROOM	11.1	98.5	97.2	0.2	1.4
F24	R12	RESIDENTIAL	BEDROOM	9.5	97.1	96.1	0.1	1
F24	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD566

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





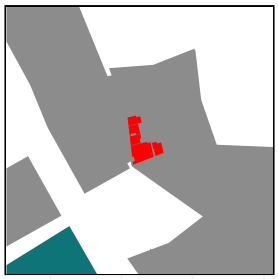
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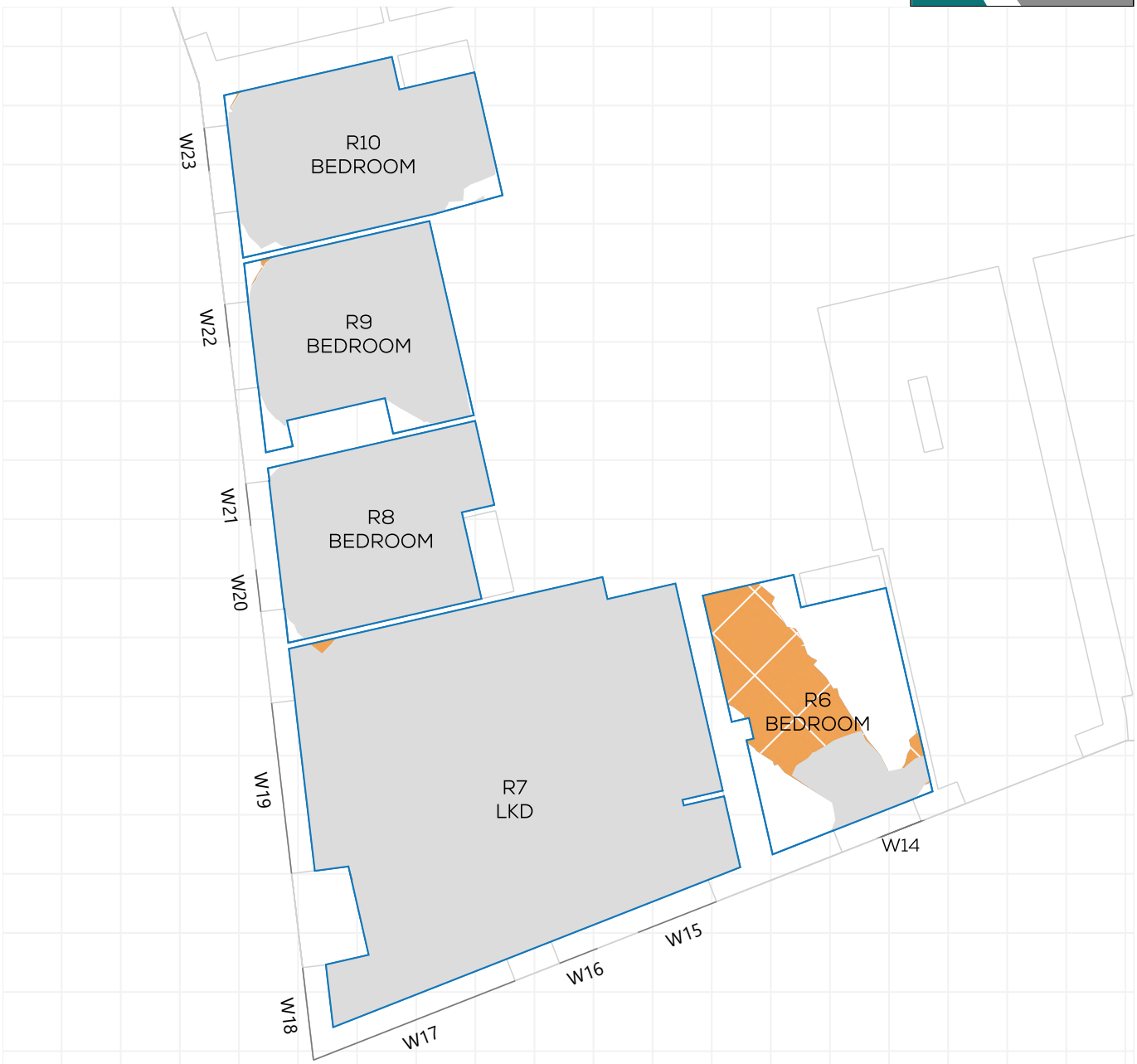
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F25	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F25	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F25	R3	RESIDENTIAL	BEDROOM	11.9	64	52.4	1.4	18
F25	R4	RESIDENTIAL	LKD	25.1	45.9	32.1	3.5	30.2
F25	R5	RESIDENTIAL	LKD	25.0	53.5	38.7	3.7	27.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD567

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





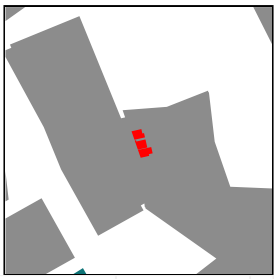
F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F25	R6	RESIDENTIAL	BEDROOM	11.9	55.4	16.9	4.6	69.4
F25	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.1	0.1
F25	R8	RESIDENTIAL	BEDROOM	10.3	99.2	99.2	0.0	0
F25	R9	RESIDENTIAL	BEDROOM	10.3	94.5	94.3	0.0	0.2
F25	R10	RESIDENTIAL	BEDROOM	11.2	96.1	96	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD568

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





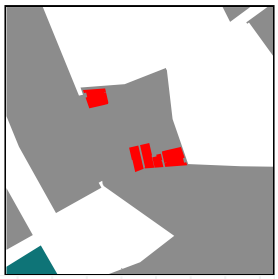
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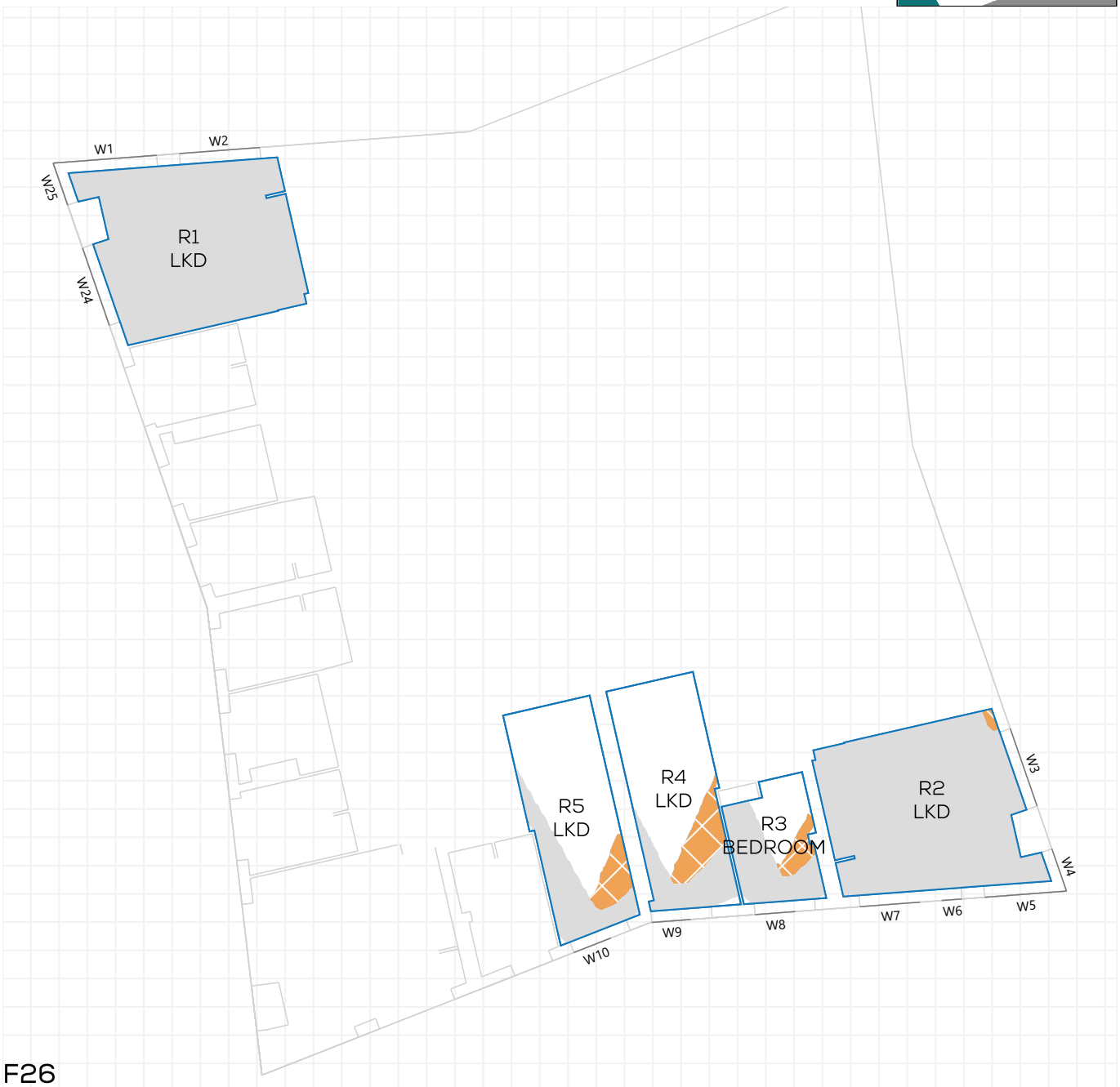
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F25	R11	RESIDENTIAL	BEDROOM	11.1	98.3	97.9	0.0	0.4
F25	R12	RESIDENTIAL	BEDROOM	9.5	95.6	95.5	0.0	0.1
F25	R13	RESIDENTIAL	BEDROOM	10.3	98.4	98.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD569

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





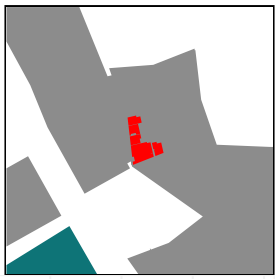
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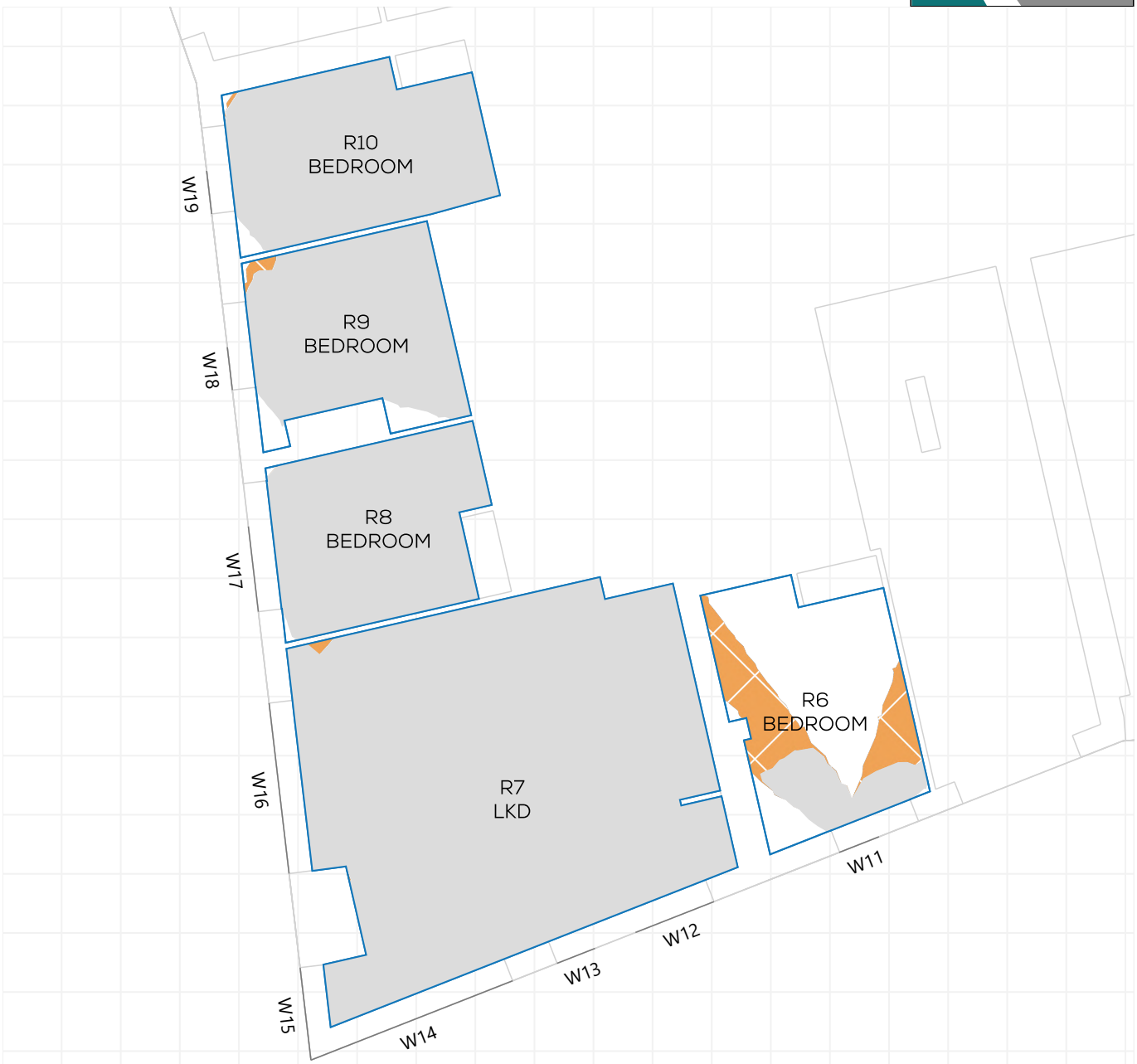
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F26	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F26	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F26	R3	RESIDENTIAL	BEDROOM	11.9	64	52.6	1.4	17.8
F26	R4	RESIDENTIAL	LKD	25.1	32.5	19.6	3.2	39.5
F26	R5	RESIDENTIAL	LKD	25.0	34.5	26.1	2.1	24.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD570

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





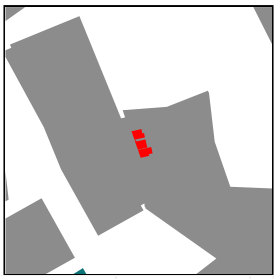
F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F26	R6	RESIDENTIAL	BEDROOM	11.9	41.8	17.5	2.9	58.3
F26	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.1	0.1
F26	R8	RESIDENTIAL	BEDROOM	10.3	99.4	99.4	0.0	0
F26	R9	RESIDENTIAL	BEDROOM	10.3	93.9	92.7	0.1	1.3
F26	R10	RESIDENTIAL	BEDROOM	11.2	98.3	98.1	0.0	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD571

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





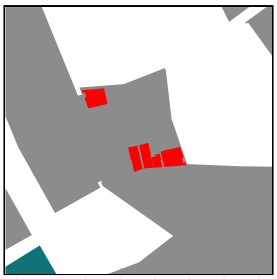
F26

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F26	R11	RESIDENTIAL	BEDROOM	11.1	98.5	97.6	0.1	1
F26	R12	RESIDENTIAL	BEDROOM	9.5	97.1	96.7	0.0	0.4
F26	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD572

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





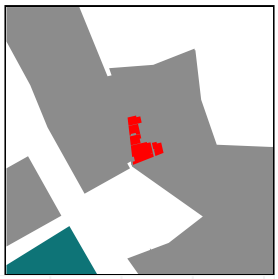
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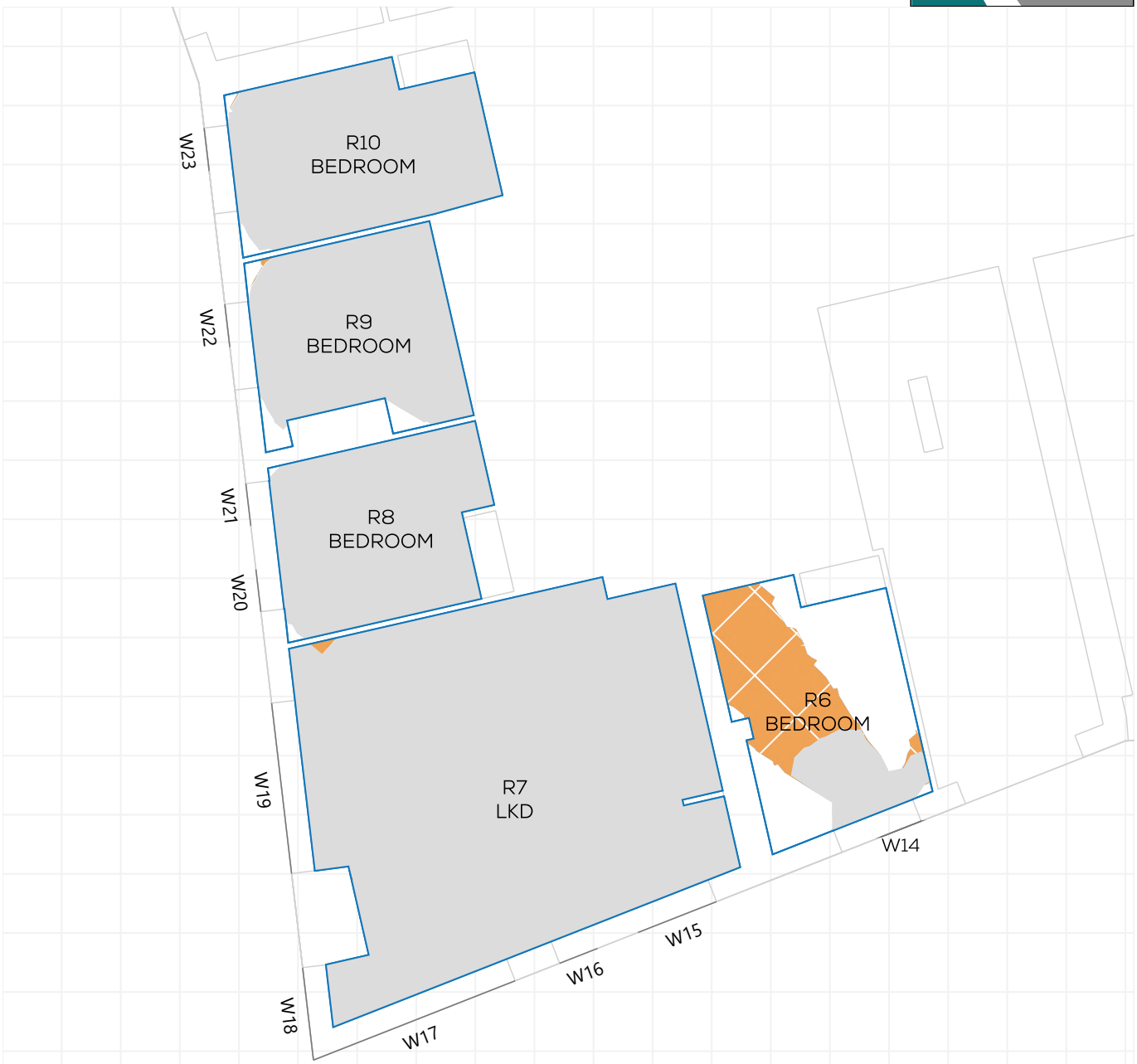
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F27	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F27	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F27	R3	RESIDENTIAL	BEDROOM	11.9	64	52.8	1.3	17.5
F27	R4	RESIDENTIAL	LKD	25.1	45.9	32.3	3.4	29.7
F27	R5	RESIDENTIAL	LKD	25.0	53.5	39.3	3.6	26.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD573

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





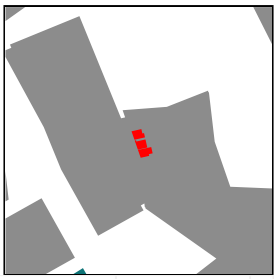
F27

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F27	R6	RESIDENTIAL	BEDROOM	11.9	55.5	18.7	4.4	66.3
F27	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.1	0.1
F27	R8	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0
F27	R9	RESIDENTIAL	BEDROOM	10.3	94.9	94.7	0.0	0.2
F27	R10	RESIDENTIAL	BEDROOM	11.2	98.6	98.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD574

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





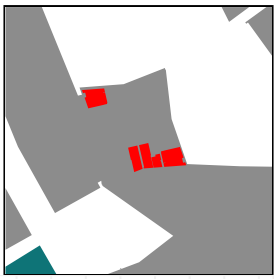
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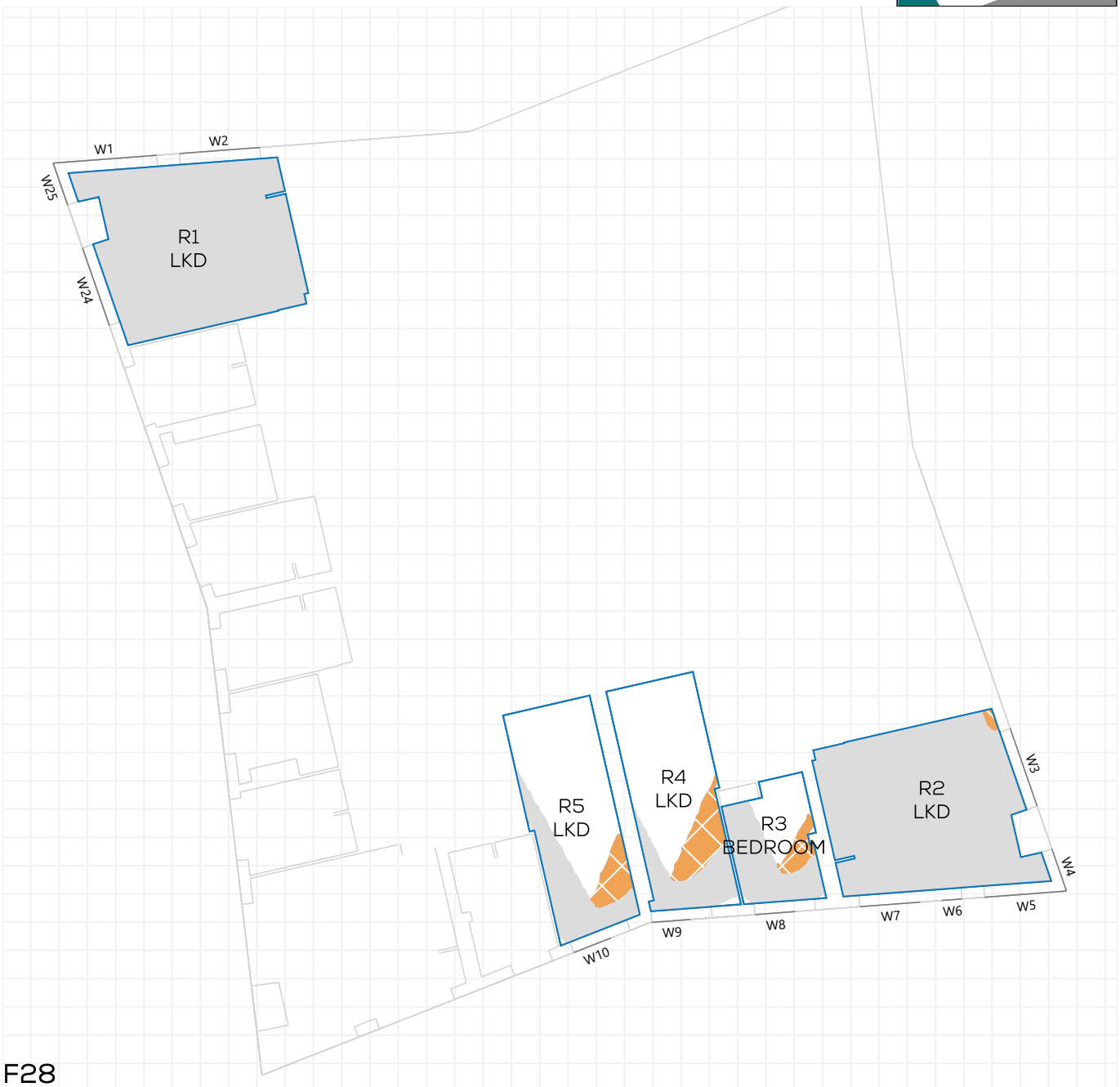
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F27	R11	RESIDENTIAL	BEDROOM	11.1	98.4	98.3	0.0	0.1
F27	R12	RESIDENTIAL	BEDROOM	9.5	96.3	96.2	0.0	0.1
F27	R13	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD575

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





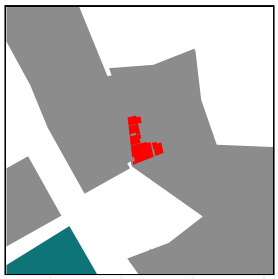
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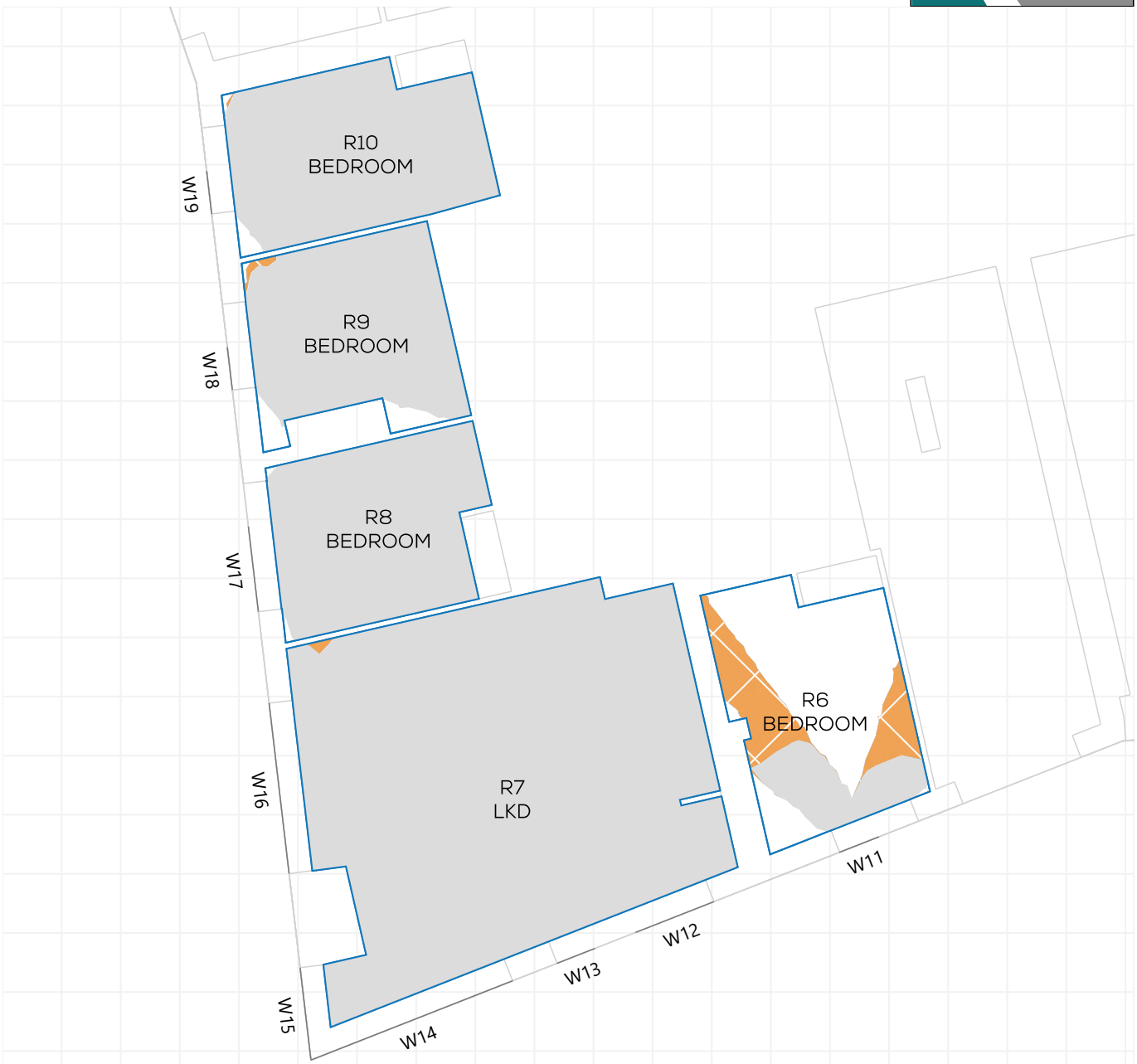
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F28	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F28	R2	RESIDENTIAL	LKD	39.3	100	99.3	0.3	0.7
F28	R3	RESIDENTIAL	BEDROOM	11.9	64	53	1.3	17.1
F28	R4	RESIDENTIAL	LKD	25.1	32.5	19.9	3.2	38.9
F28	R5	RESIDENTIAL	LKD	25.0	34.6	26.4	2.0	23.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD576

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





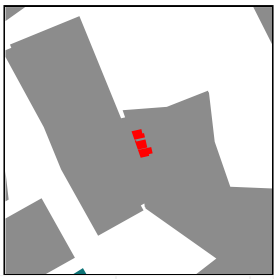
F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F28	R6	RESIDENTIAL	BEDROOM	11.9	41.8	19.8	2.6	52.6
F28	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.1	0.1
F28	R8	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F28	R9	RESIDENTIAL	BEDROOM	10.3	93.9	93.1	0.1	0.9
F28	R10	RESIDENTIAL	BEDROOM	11.2	98.3	98.2	0.0	0.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD577

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





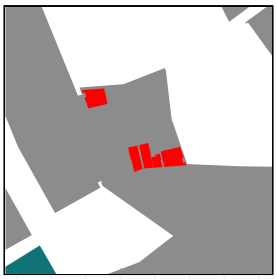
F28

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F28	R11	RESIDENTIAL	BEDROOM	11.1	98.6	97.9	0.1	0.7
F28	R12	RESIDENTIAL	BEDROOM	9.5	97.1	97.1	0.0	0
F28	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD578

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





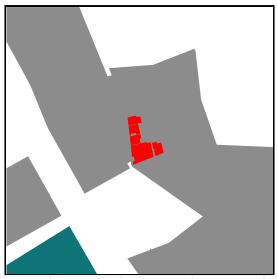
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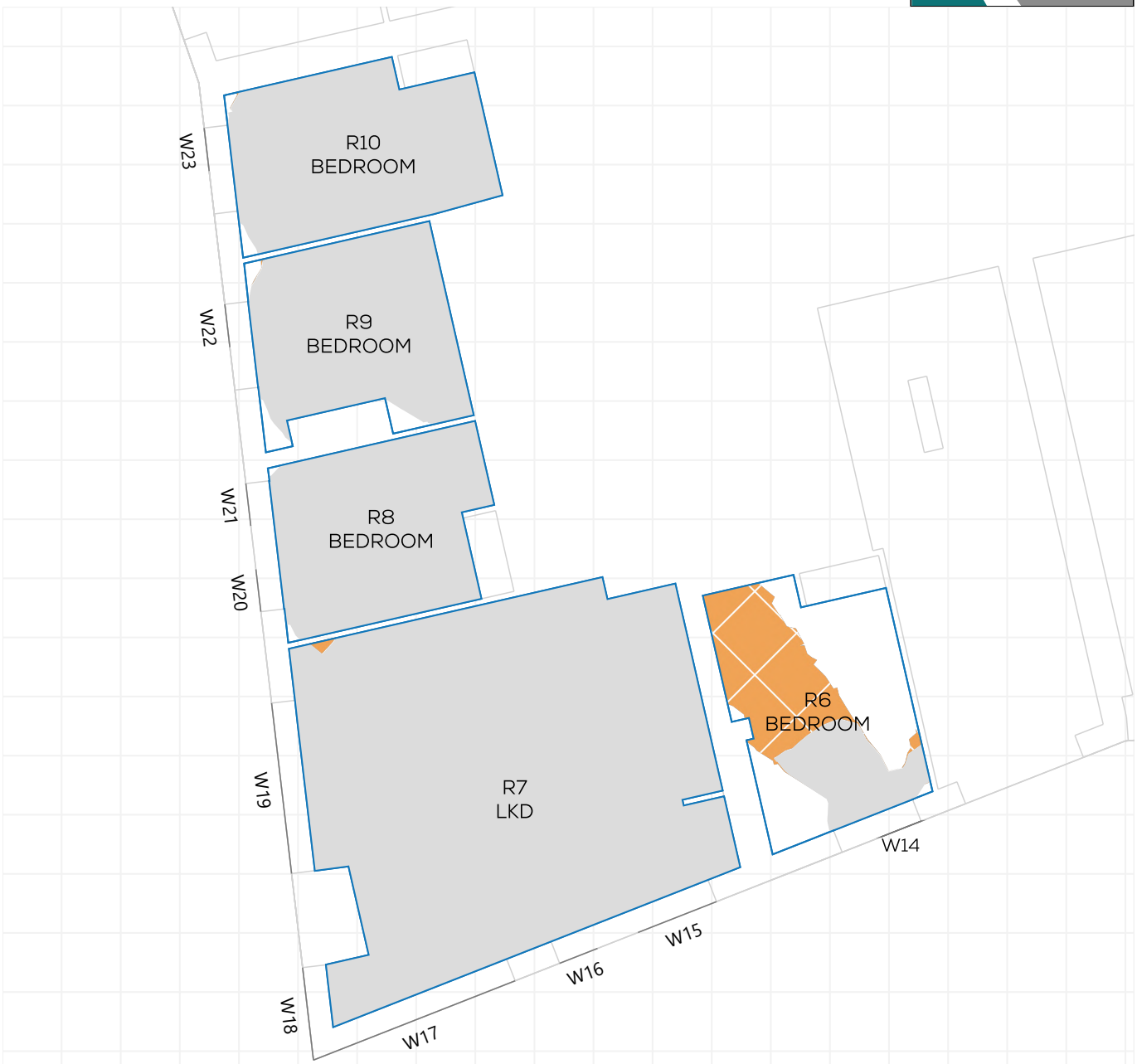
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F29	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F29	R2	RESIDENTIAL	LKD	39.3	100	99.4	0.3	0.6
F29	R3	RESIDENTIAL	BEDROOM	11.9	64	53.4	1.3	16.6
F29	R4	RESIDENTIAL	LKD	25.1	45.9	32.6	3.3	29
F29	R5	RESIDENTIAL	LKD	25.0	53.5	39.9	3.4	25.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD579

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





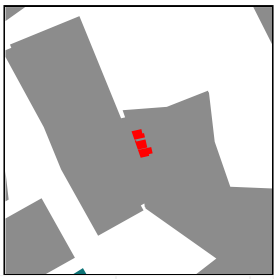
F29

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F29	R6	RESIDENTIAL	BEDROOM	11.9	55.8	21.6	4.1	61.3
F29	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.1	0.1
F29	R8	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F29	R9	RESIDENTIAL	BEDROOM	10.3	95.2	95.2	0.0	0.1
F29	R10	RESIDENTIAL	BEDROOM	11.2	98.7	98.7	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD580

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





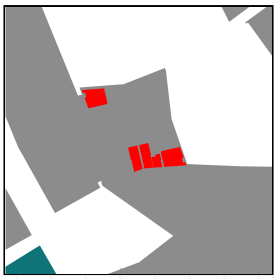
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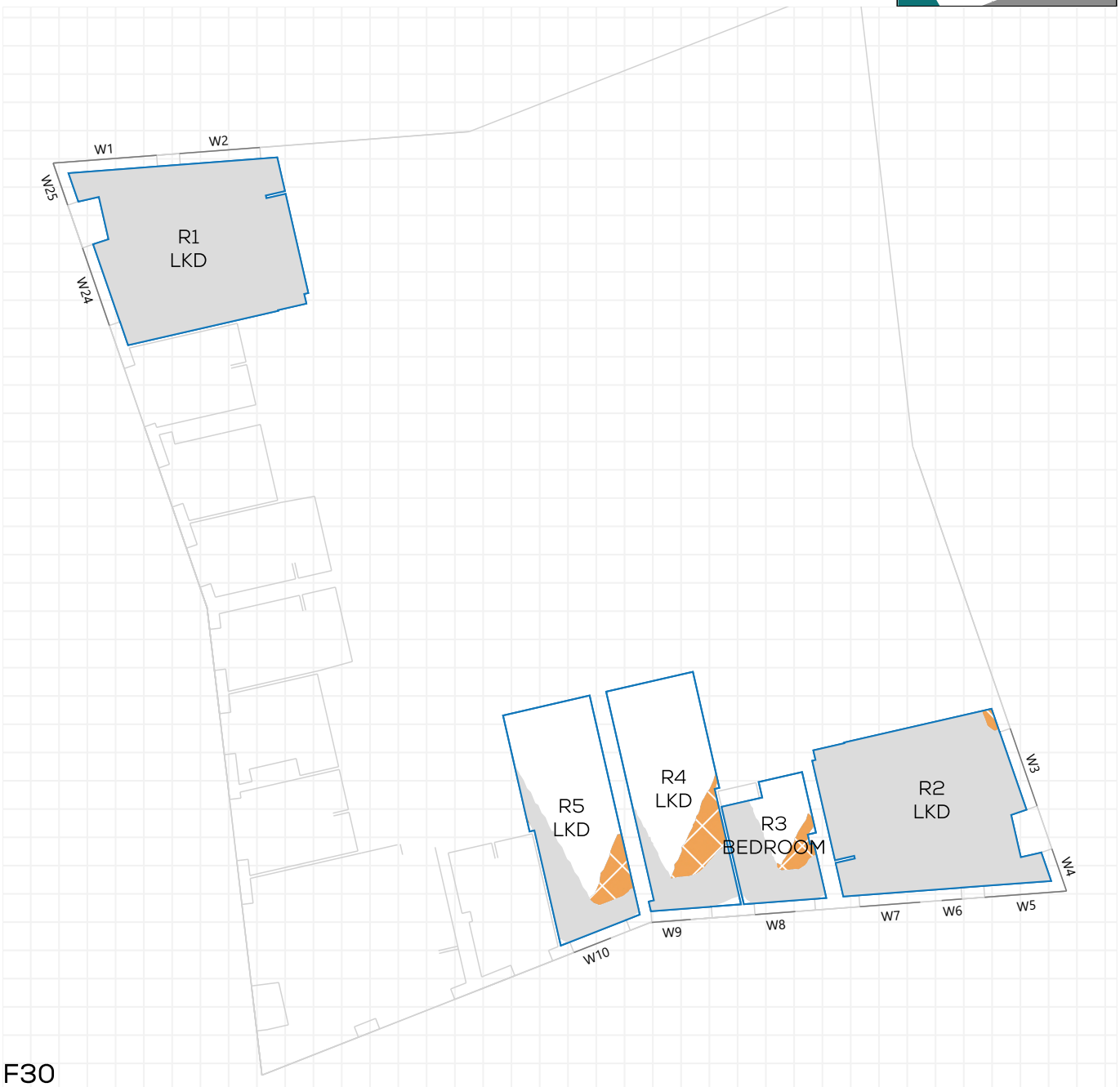
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F29	R11	RESIDENTIAL	BEDROOM	11.1	98.4	98.4	0.0	0
F29	R12	RESIDENTIAL	BEDROOM	9.5	96.4	96.3	0.0	0
F29	R13	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD581

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





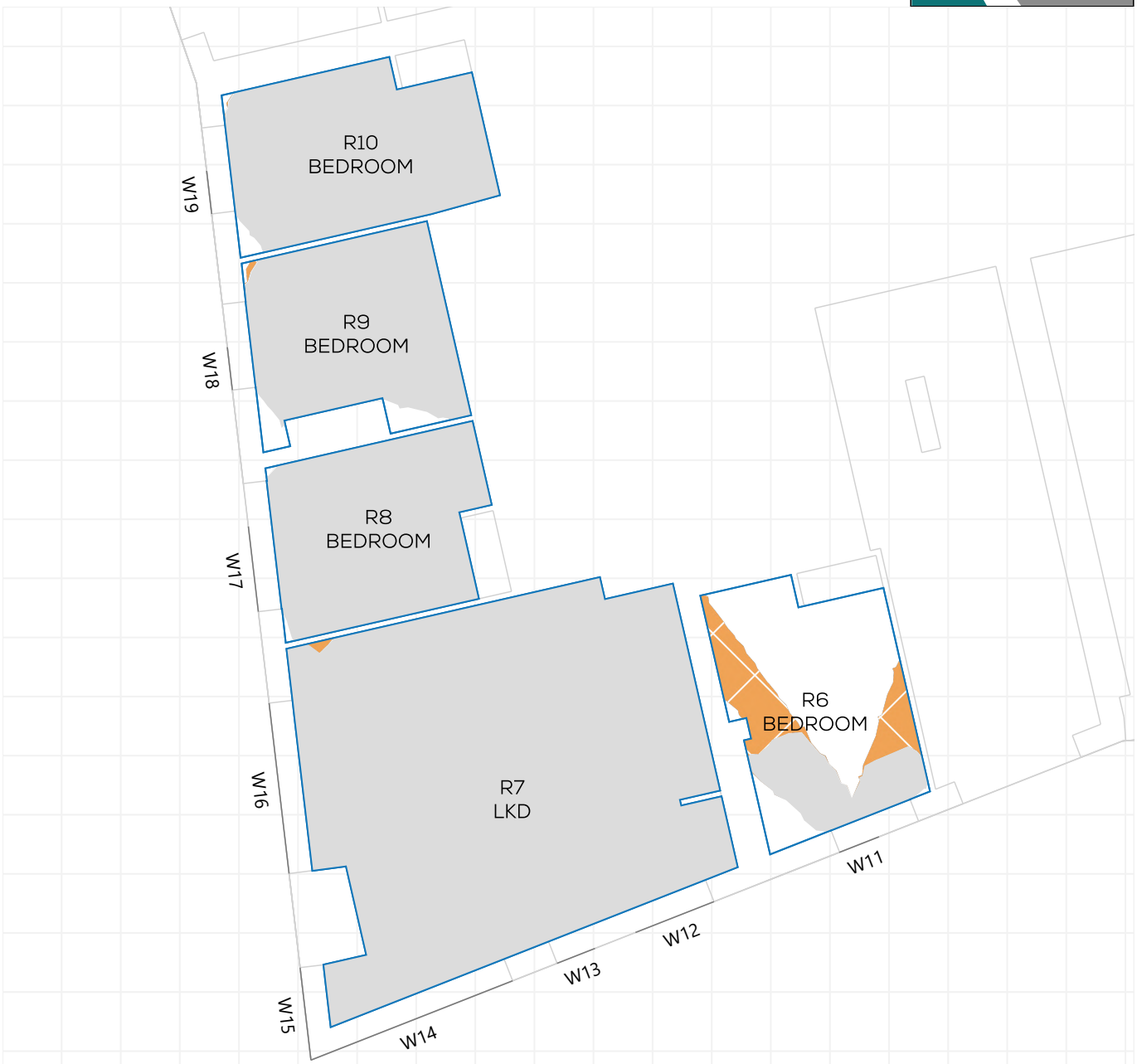
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F30	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F30	R2	RESIDENTIAL	LKD	39.3	100	99.4	0.3	0.6
F30	R3	RESIDENTIAL	BEDROOM	11.9	64	53.7	1.2	16.1
F30	R4	RESIDENTIAL	LKD	25.1	32.5	20.3	3.1	37.7
F30	R5	RESIDENTIAL	LKD	25.0	34.6	26.8	1.9	22.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD582

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



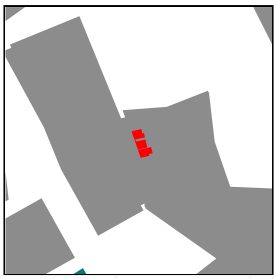
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F30	R6	RESIDENTIAL	BEDROOM	11.9	42	22.6	2.3	46.2
F30	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.1	0.1
F30	R8	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F30	R9	RESIDENTIAL	BEDROOM	10.3	94	93.7	0.0	0.3
F30	R10	RESIDENTIAL	BEDROOM	11.2	98.3	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD583

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





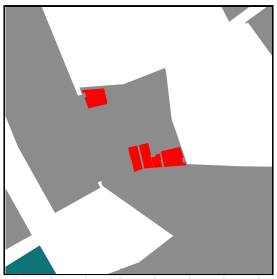
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F30	R11	RESIDENTIAL	BEDROOM	11.1	98.6	98.4	0.0	0.2
F30	R12	RESIDENTIAL	BEDROOM	9.5	97.1	97.1	0.0	0
F30	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD584

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





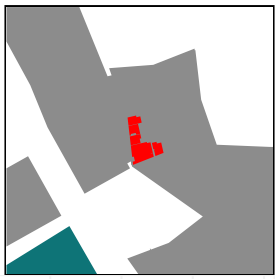
F31

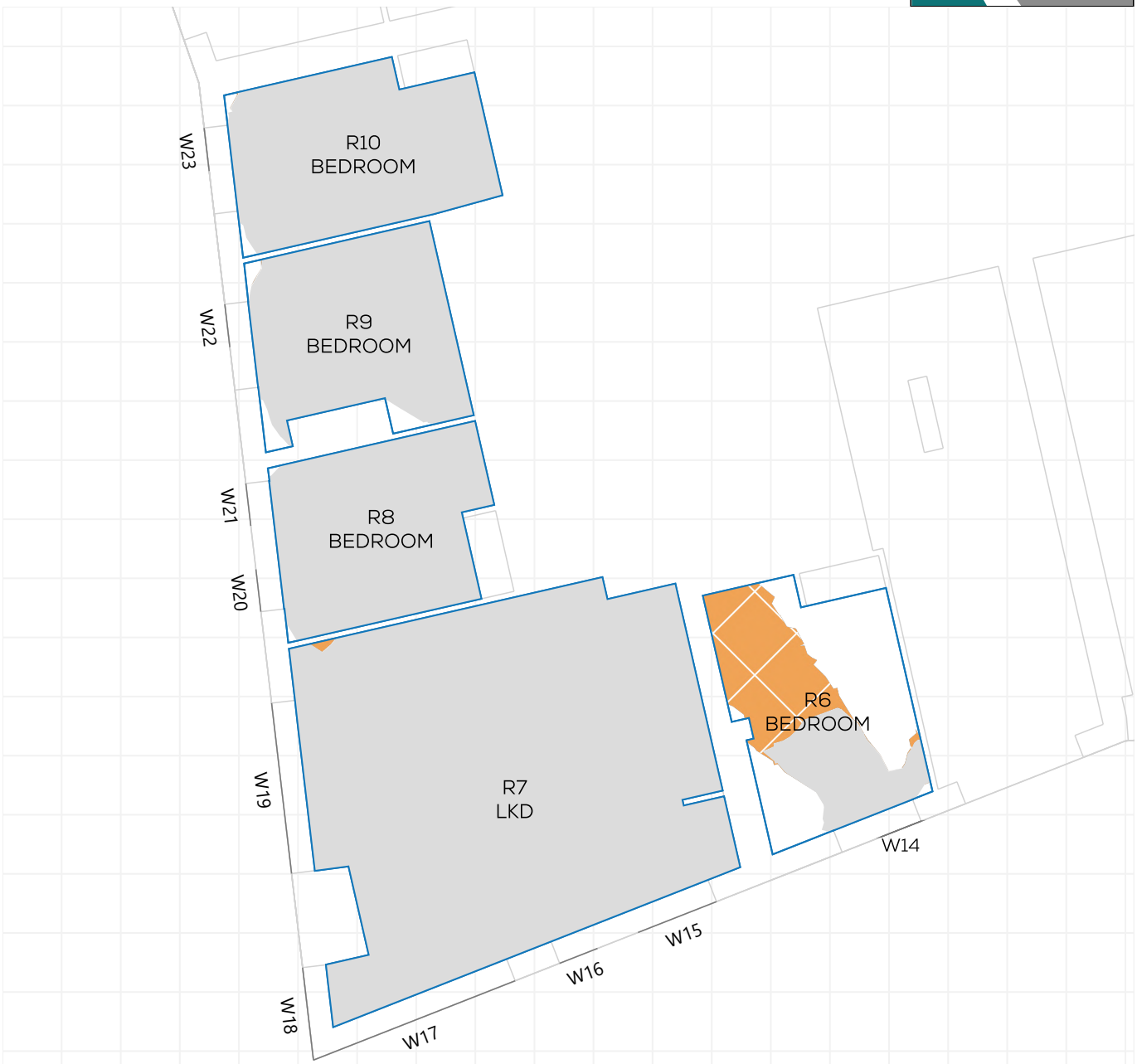
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F31	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F31	R2	RESIDENTIAL	LKD	39.3	100	99.4	0.3	0.6
F31	R3	RESIDENTIAL	BEDROOM	11.9	64	54.1	1.2	15.4
F31	R4	RESIDENTIAL	LKD	25.1	45.9	33.1	3.2	27.9
F31	R5	RESIDENTIAL	LKD	25.0	53.5	40.2	3.3	24.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD585

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





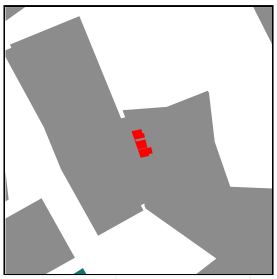
F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F31	R6	RESIDENTIAL	BEDROOM	11.9	56.2	24.8	3.7	55.9
F31	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.0	0.1
F31	R8	RESIDENTIAL	BEDROOM	10.3	99.6	99.6	0.0	0
F31	R9	RESIDENTIAL	BEDROOM	10.3	95.5	95.5	0.0	0
F31	R10	RESIDENTIAL	BEDROOM	11.2	98.9	98.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD586

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





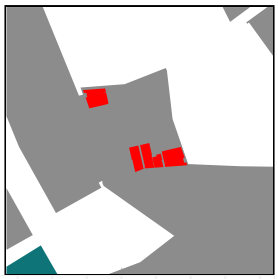
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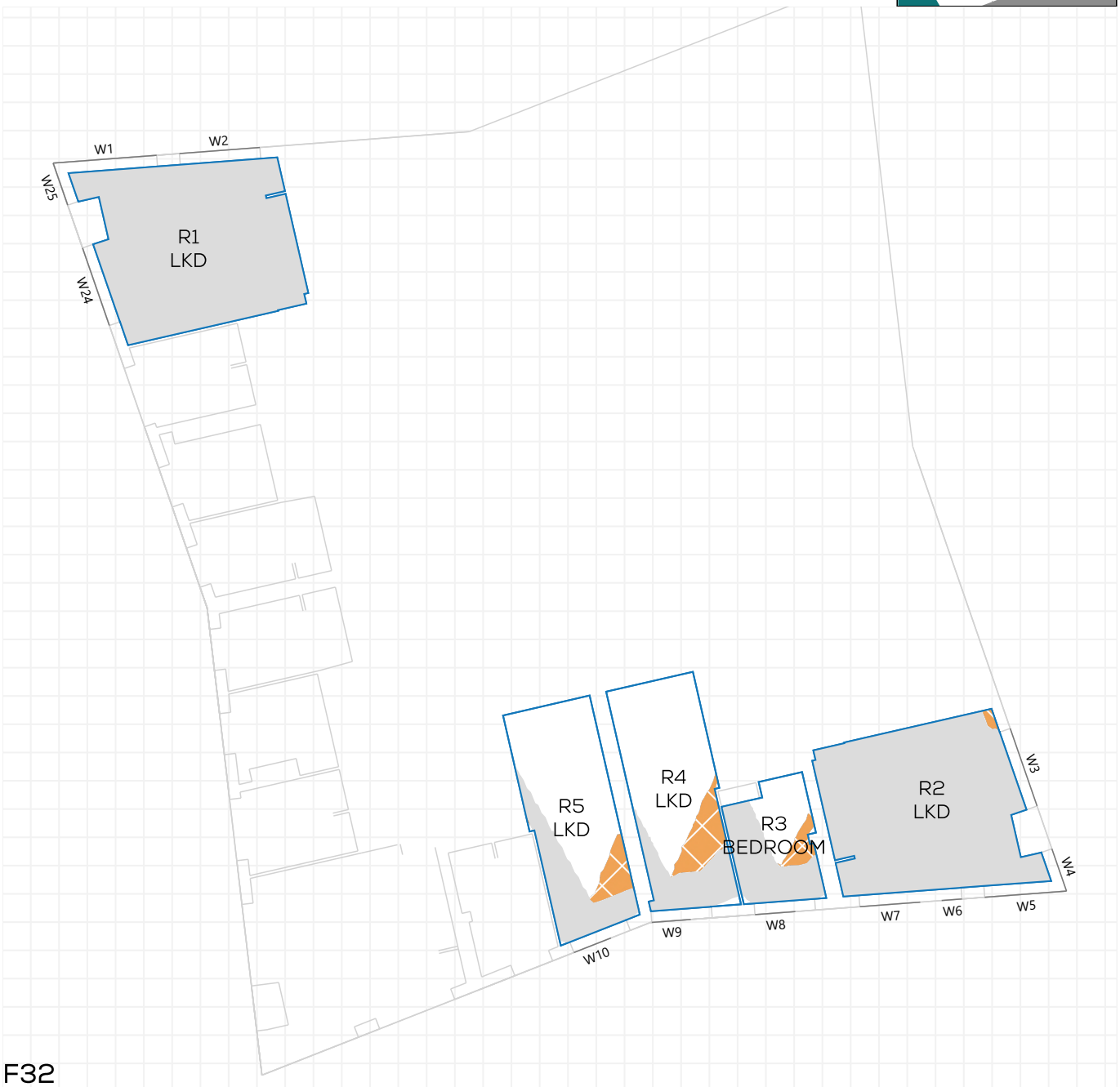
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F31	R11	RESIDENTIAL	BEDROOM	11.1	98.4	98.4	0.0	0
F31	R12	RESIDENTIAL	BEDROOM	9.5	96.5	96.5	0.0	0
F31	R13	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD587

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





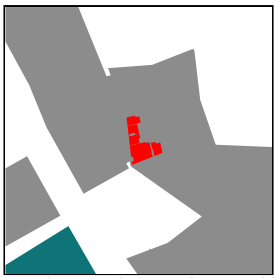
F32

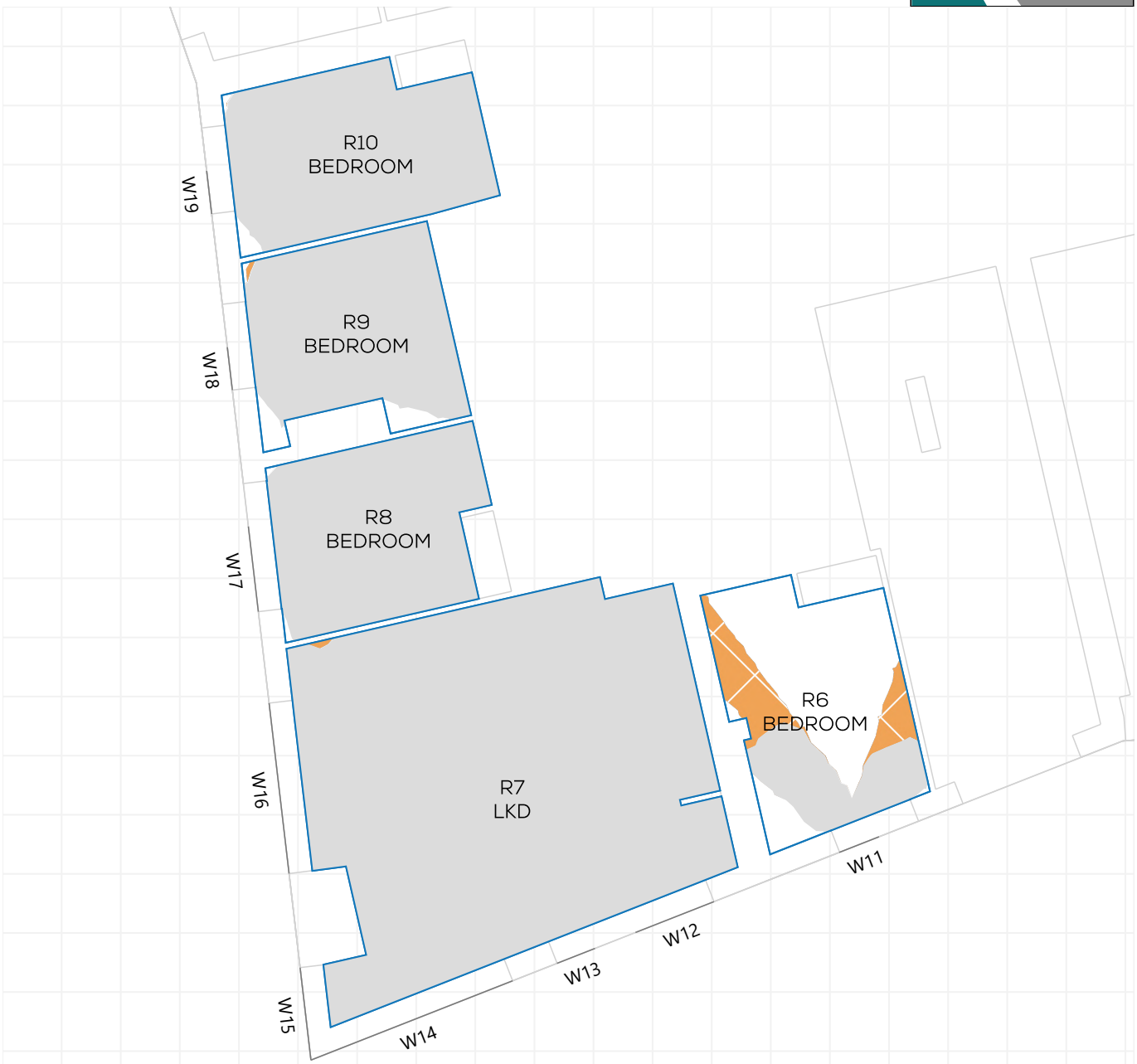
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F32	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F32	R2	RESIDENTIAL	LKD	39.3	100	99.4	0.2	0.6
F32	R3	RESIDENTIAL	BEDROOM	11.9	64	54.8	1.1	14.5
F32	R4	RESIDENTIAL	LKD	25.1	32.5	20.7	3.0	36.4
F32	R5	RESIDENTIAL	LKD	25.0	34.6	27.5	1.8	20.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD588

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





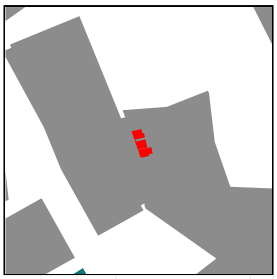
F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F32	R6	RESIDENTIAL	BEDROOM	11.9	42.2	25.3	2.0	40
F32	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.0	0.1
F32	R8	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F32	R9	RESIDENTIAL	BEDROOM	10.3	94	93.7	0.0	0.2
F32	R10	RESIDENTIAL	BEDROOM	11.2	98.3	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD589

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





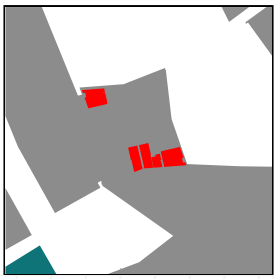
F32

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F32	R11	RESIDENTIAL	BEDROOM	11.1	98.6	98.6	0.0	0
F32	R12	RESIDENTIAL	BEDROOM	9.5	97.1	97.1	0.0	0
F32	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD590

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





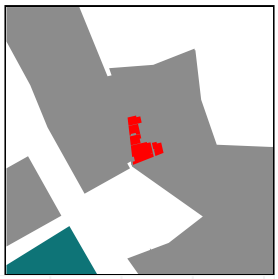
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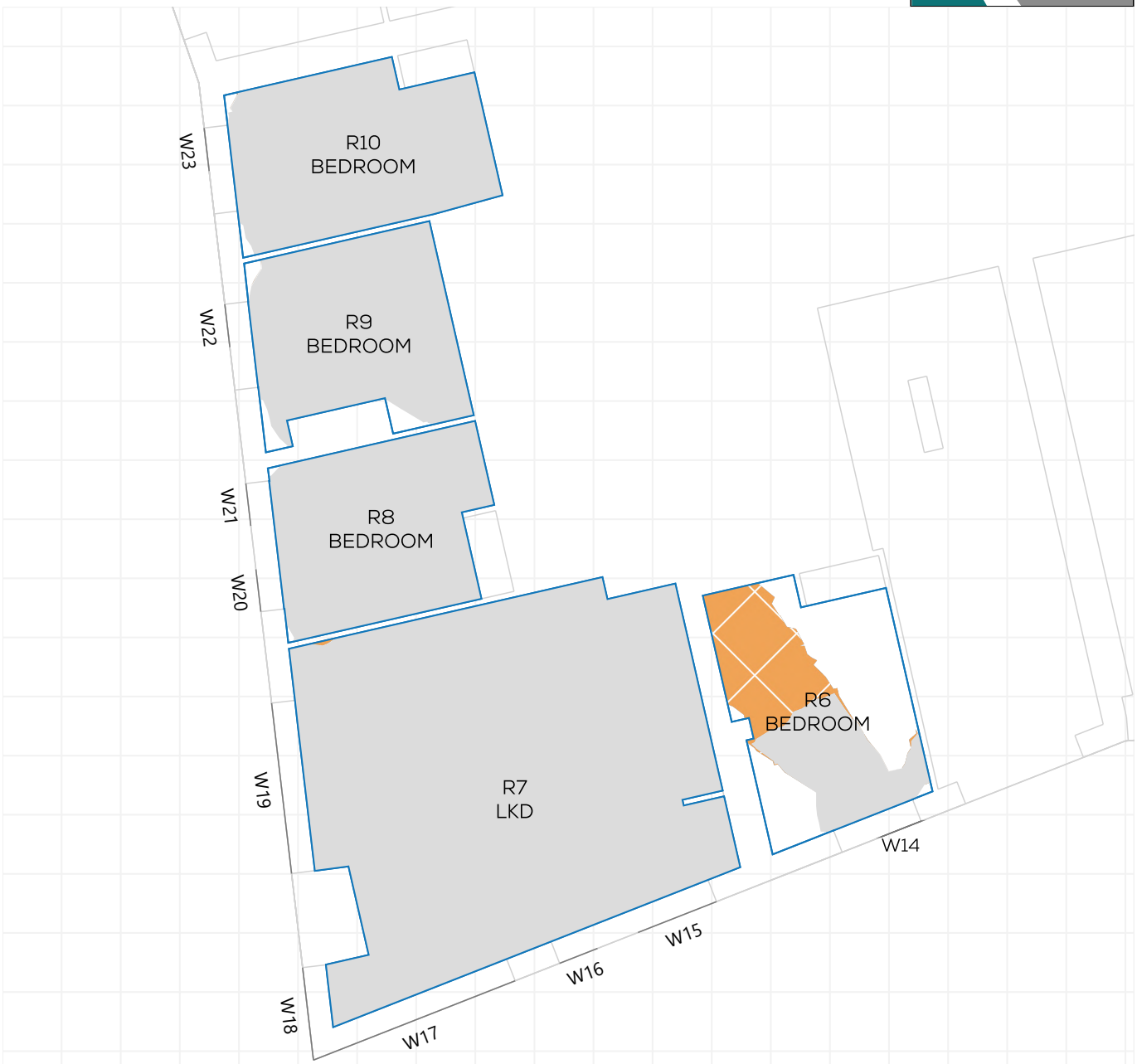
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F33	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F33	R2	RESIDENTIAL	LKD	39.3	100	99.4	0.2	0.6
F33	R3	RESIDENTIAL	BEDROOM	11.9	64	55.5	1.0	13.3
F33	R4	RESIDENTIAL	LKD	25.1	45.9	33.6	3.1	26.7
F33	R5	RESIDENTIAL	LKD	25.0	53.5	40.9	3.2	23.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD591

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





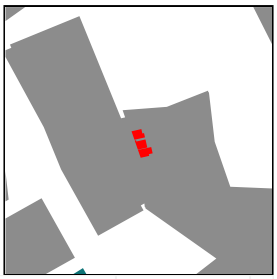
F33

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F33	R6	RESIDENTIAL	BEDROOM	11.9	56.7	28.8	3.3	49.2
F33	R7	RESIDENTIAL	LKD	39.1	100	99.9	0.0	0.1
F33	R8	RESIDENTIAL	BEDROOM	10.3	99.6	99.6	0.0	0
F33	R9	RESIDENTIAL	BEDROOM	10.3	95.7	95.7	0.0	0
F33	R10	RESIDENTIAL	BEDROOM	11.2	98.9	98.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD592

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





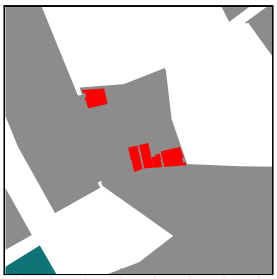
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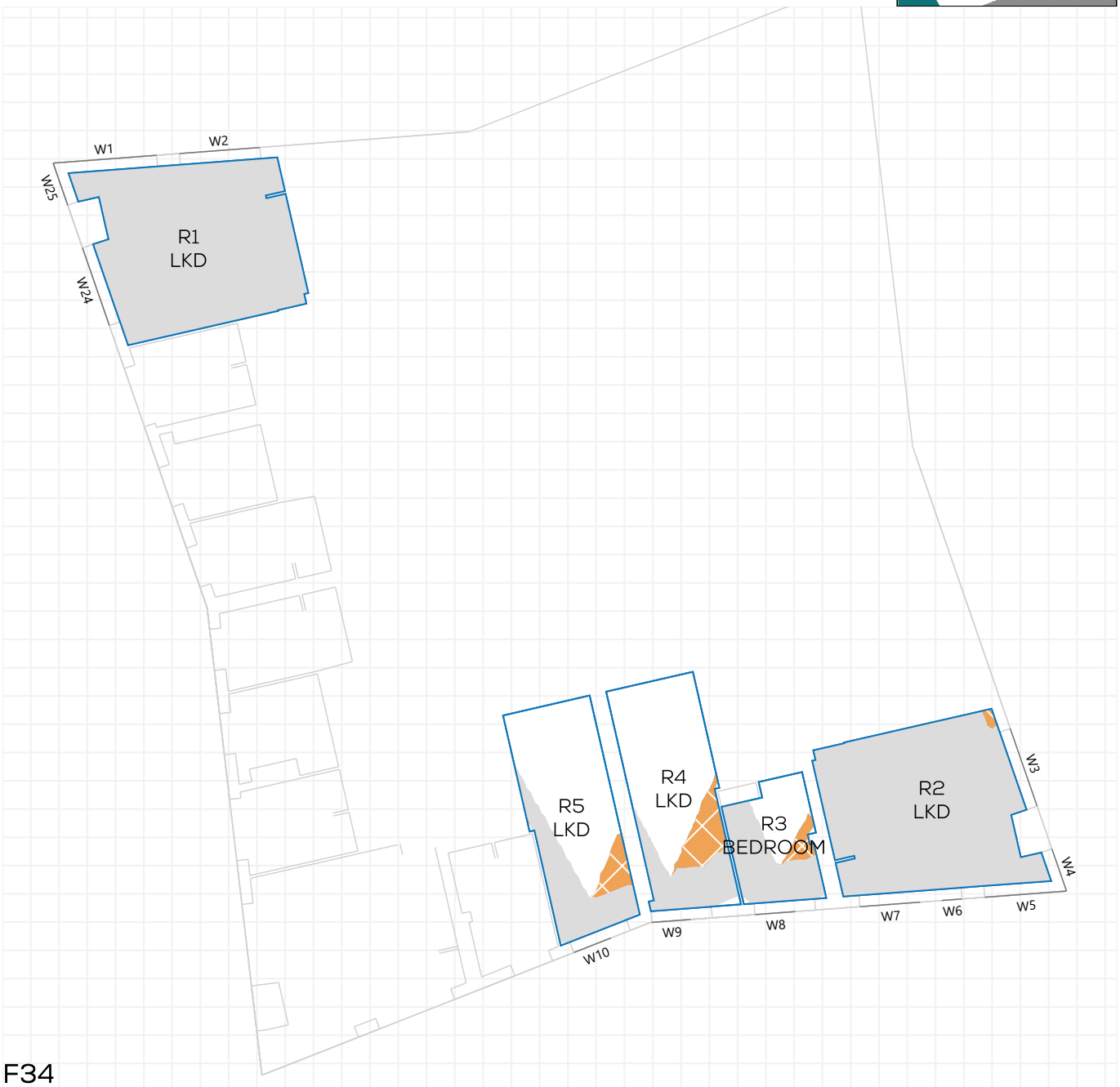
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F33	R11	RESIDENTIAL	BEDROOM	11.1	98.4	98.4	0.0	0
F33	R12	RESIDENTIAL	BEDROOM	9.5	96.5	96.5	0.0	0
F33	R13	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD593

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





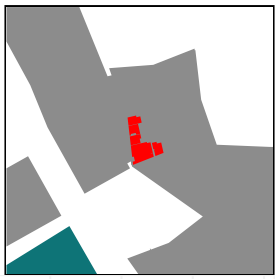
F34

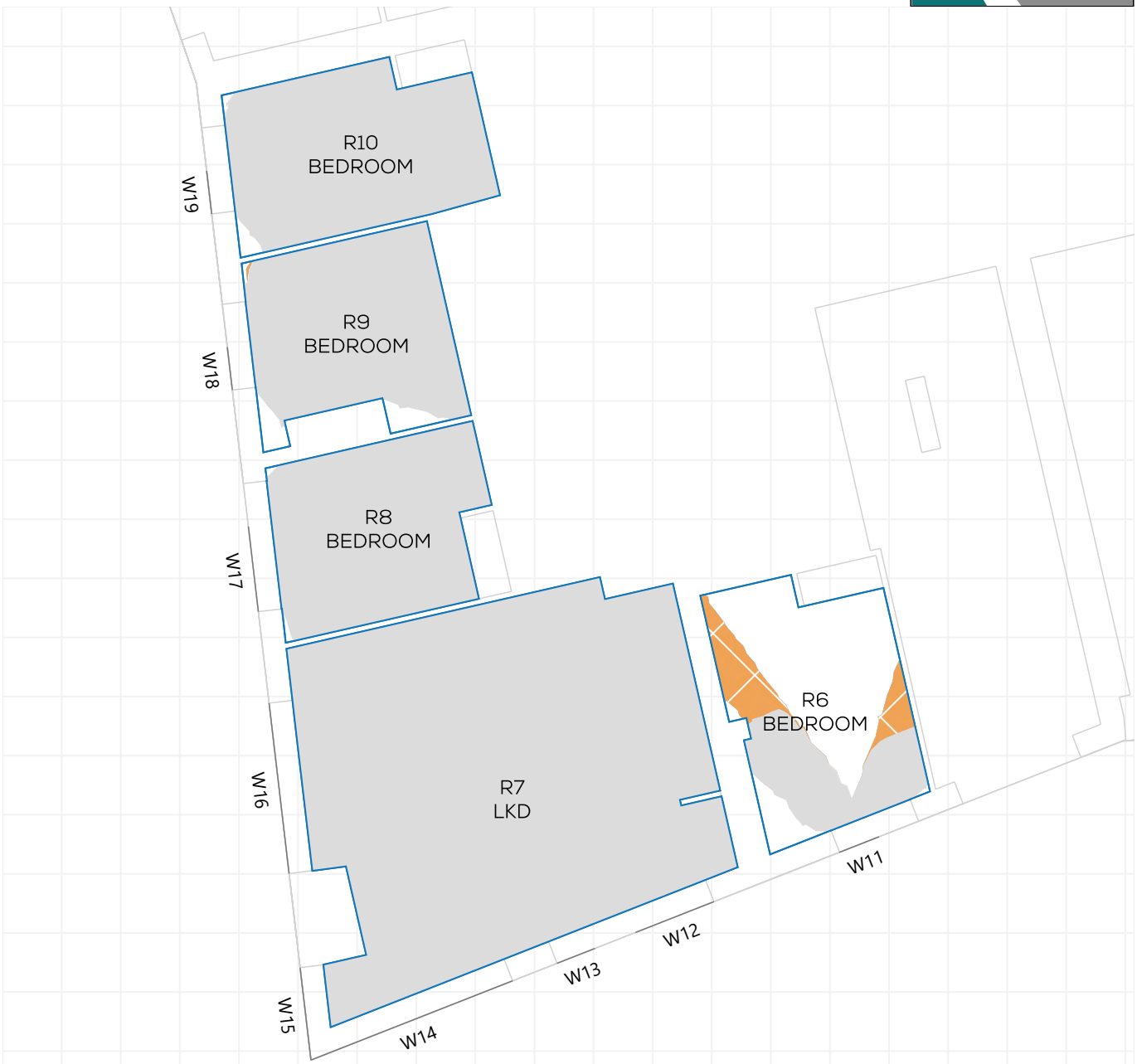
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F34	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F34	R2	RESIDENTIAL	LKD	39.3	100	99.4	0.2	0.6
F34	R3	RESIDENTIAL	BEDROOM	11.9	64	56.1	0.9	12.3
F34	R4	RESIDENTIAL	LKD	25.1	32.5	21.3	2.8	34.5
F34	R5	RESIDENTIAL	LKD	25.0	34.6	28.5	1.5	17.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD594

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





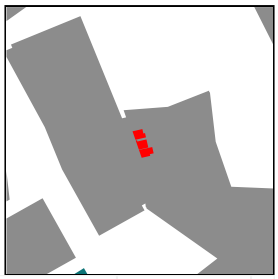
F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F34	R6	RESIDENTIAL	BEDROOM	11.9	42.4	28.7	1.6	32.4
F34	R7	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F34	R8	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F34	R9	RESIDENTIAL	BEDROOM	10.3	94	93.9	0.0	0.1
F34	R10	RESIDENTIAL	BEDROOM	11.2	98.3	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD595

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





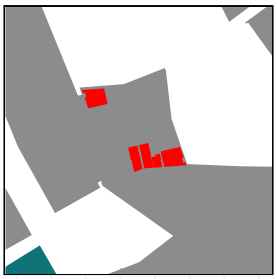
F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F34	R11	RESIDENTIAL	BEDROOM	11.1	98.6	98.6	0.0	0
F34	R12	RESIDENTIAL	BEDROOM	9.5	97.1	97.1	0.0	0
F34	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD596

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





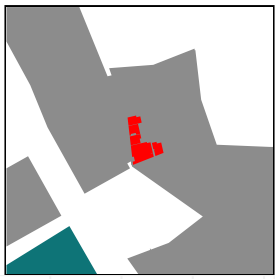
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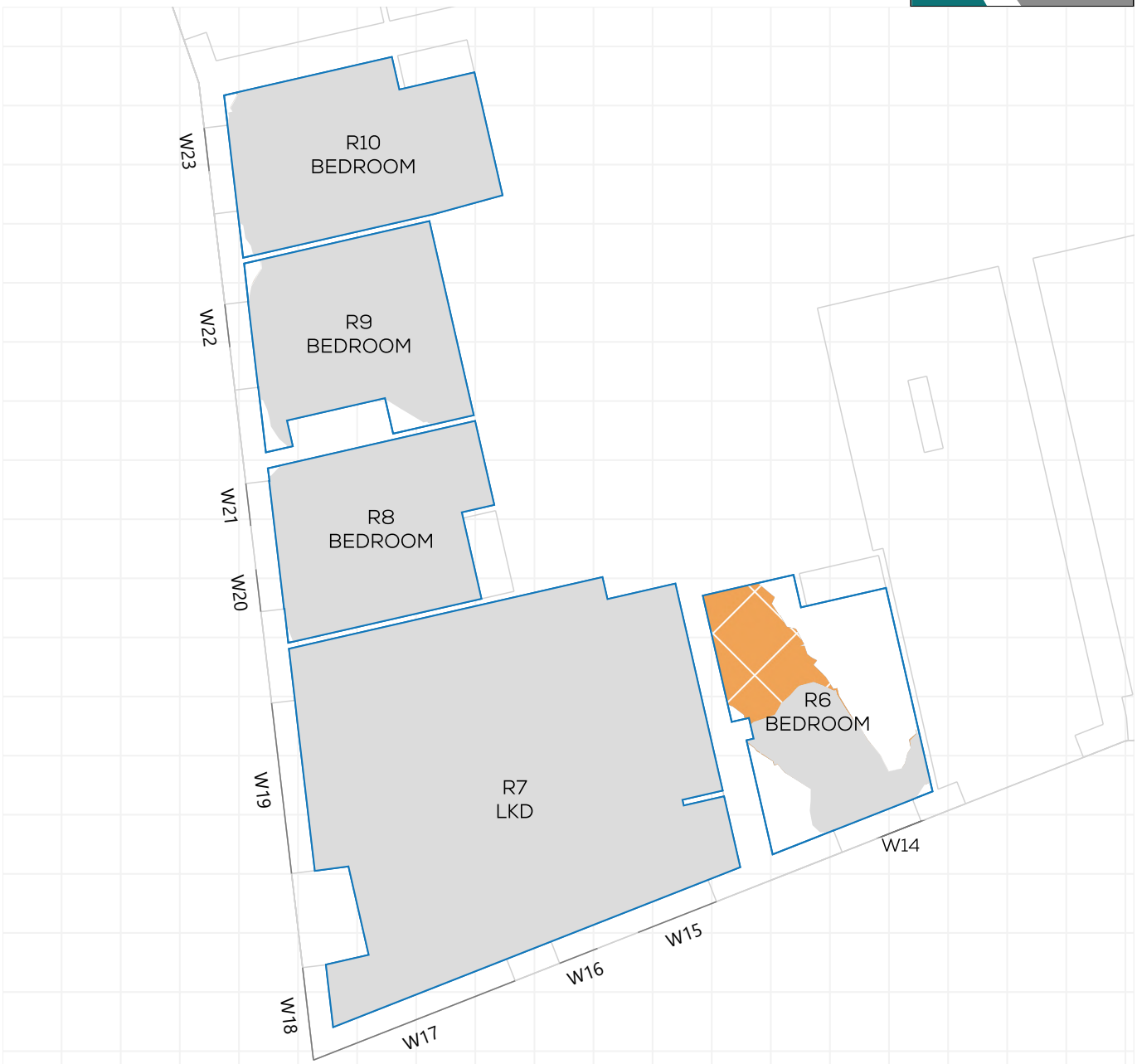
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F35	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F35	R2	RESIDENTIAL	LKD	39.3	100	99.4	0.2	0.6
F35	R3	RESIDENTIAL	BEDROOM	11.9	64	57	0.8	11.1
F35	R4	RESIDENTIAL	LKD	25.1	45.9	34.7	2.8	24.4
F35	R5	RESIDENTIAL	LKD	25.0	53.6	41.9	2.9	21.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD597

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





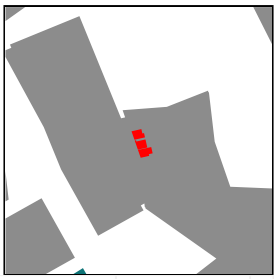
F35

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F35	R6	RESIDENTIAL	BEDROOM	11.9	57.2	33	2.9	42.3
F35	R7	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F35	R8	RESIDENTIAL	BEDROOM	10.3	99.7	99.7	0.0	0
F35	R9	RESIDENTIAL	BEDROOM	10.3	95.7	95.7	0.0	0
F35	R10	RESIDENTIAL	BEDROOM	11.2	99	99	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD598

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





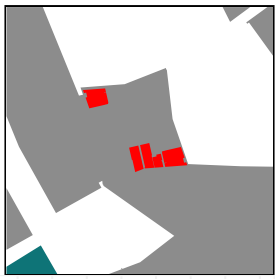
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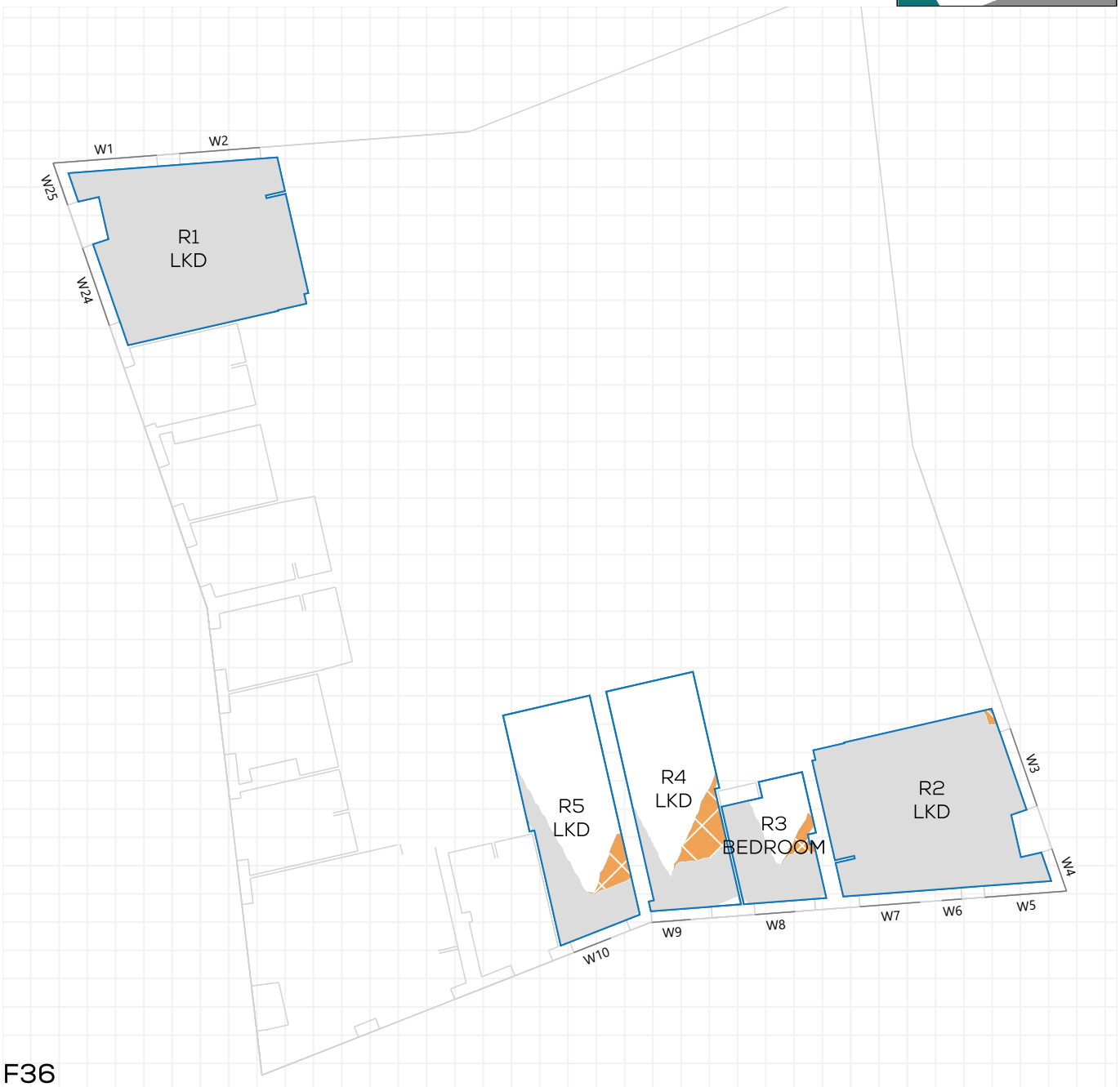
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F35	R11	RESIDENTIAL	BEDROOM	11.1	98.4	98.4	0.0	0
F35	R12	RESIDENTIAL	BEDROOM	9.5	96.6	96.5	0.0	0
F35	R13	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD599

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





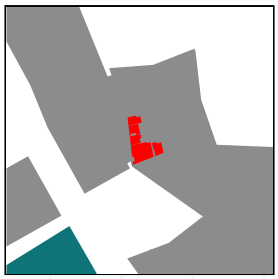
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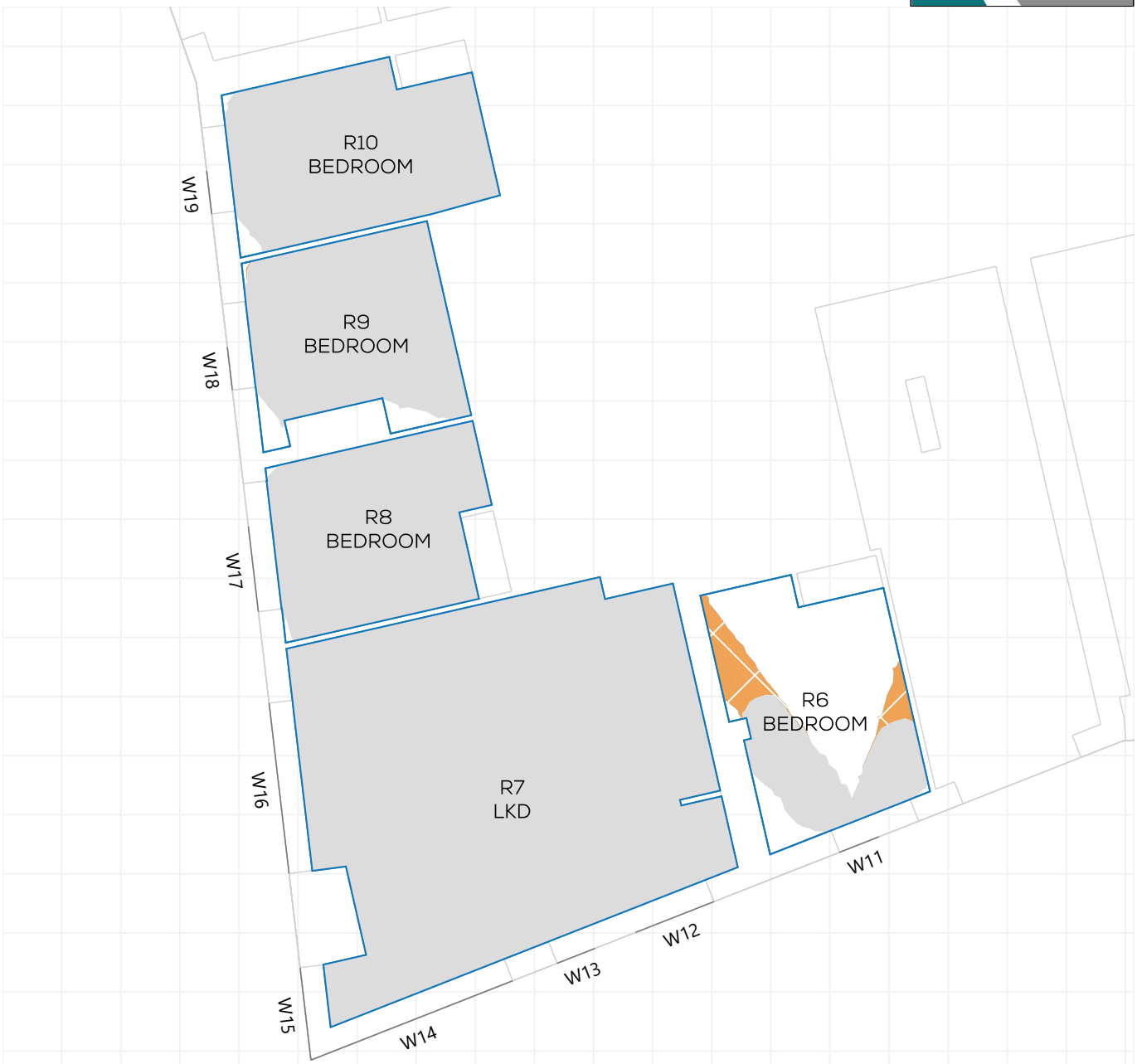
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F36	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F36	R2	RESIDENTIAL	LKD	39.3	100	99.6	0.2	0.4
F36	R3	RESIDENTIAL	BEDROOM	11.9	64.2	58.2	0.7	9.4
F36	R4	RESIDENTIAL	LKD	25.1	32.5	22.5	2.5	30.8
F36	R5	RESIDENTIAL	LKD	25.0	34.7	29.5	1.3	15

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD600

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





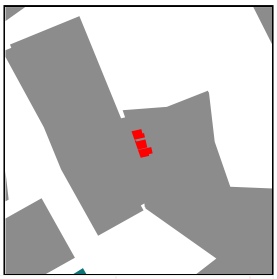
F36

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F36	R6	RESIDENTIAL	BEDROOM	11.9	42.8	31.8	1.3	25.7
F36	R7	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F36	R8	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F36	R9	RESIDENTIAL	BEDROOM	10.3	94	93.9	0.0	0
F36	R10	RESIDENTIAL	BEDROOM	11.2	98.3	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD601

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





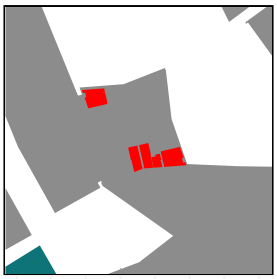
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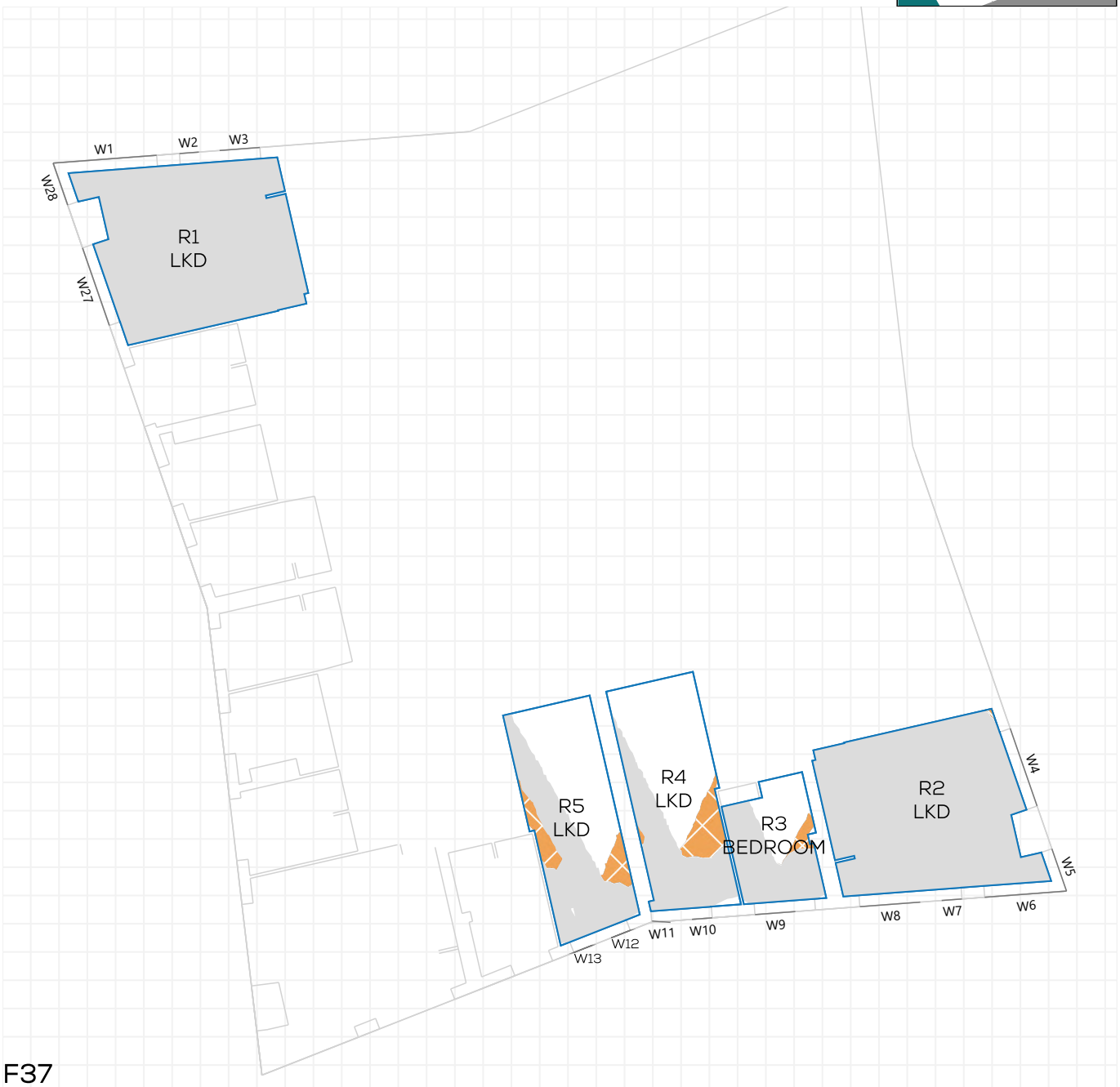
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F36	R11	RESIDENTIAL	BEDROOM	11.1	98.6	98.6	0.0	0
F36	R12	RESIDENTIAL	BEDROOM	9.5	97.1	97.1	0.0	0
F36	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD602

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





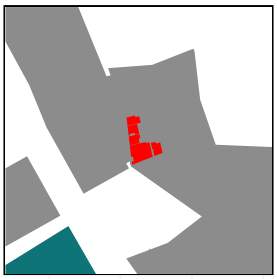
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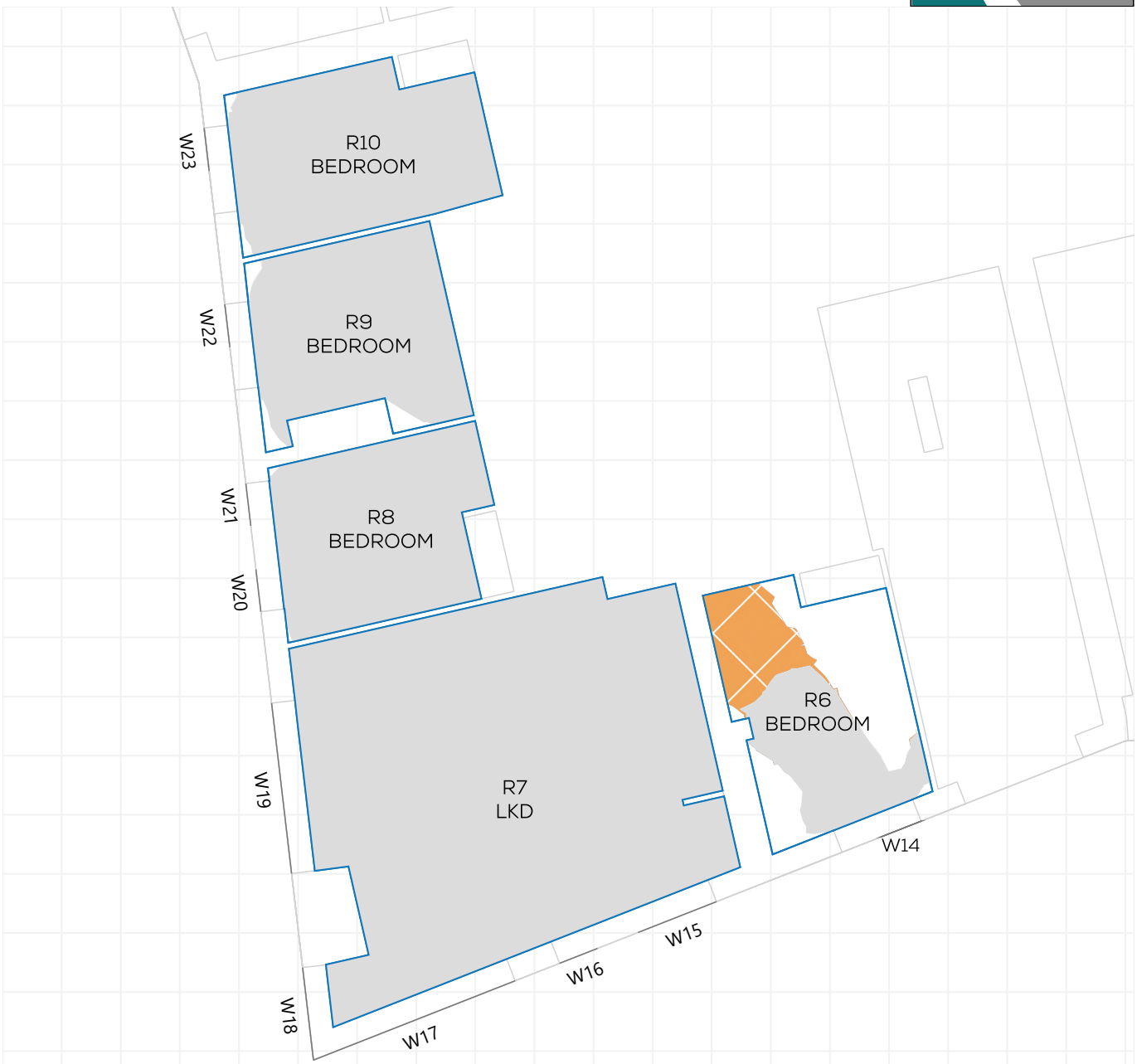
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F37	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F37	R2	RESIDENTIAL	LKD	39.3	100	99.8	0.1	0.2
F37	R3	RESIDENTIAL	BEDROOM	11.9	64.2	59.2	0.6	7.7
F37	R4	RESIDENTIAL	LKD	25.1	45.9	36.1	2.5	21.4
F37	R5	RESIDENTIAL	LKD	25.0	53.7	44	2.4	18.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD603

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





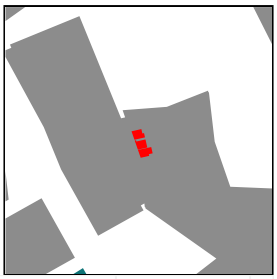
F37

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F37	R6	RESIDENTIAL	BEDROOM	11.9	58.4	38.6	2.4	33.9
F37	R7	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F37	R8	RESIDENTIAL	BEDROOM	10.3	99.7	99.7	0.0	0
F37	R9	RESIDENTIAL	BEDROOM	10.3	95.7	95.7	0.0	0
F37	R10	RESIDENTIAL	BEDROOM	11.2	99	99	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD604

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





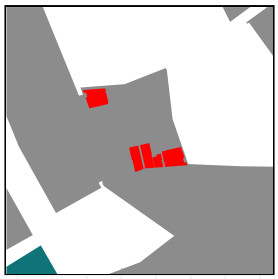
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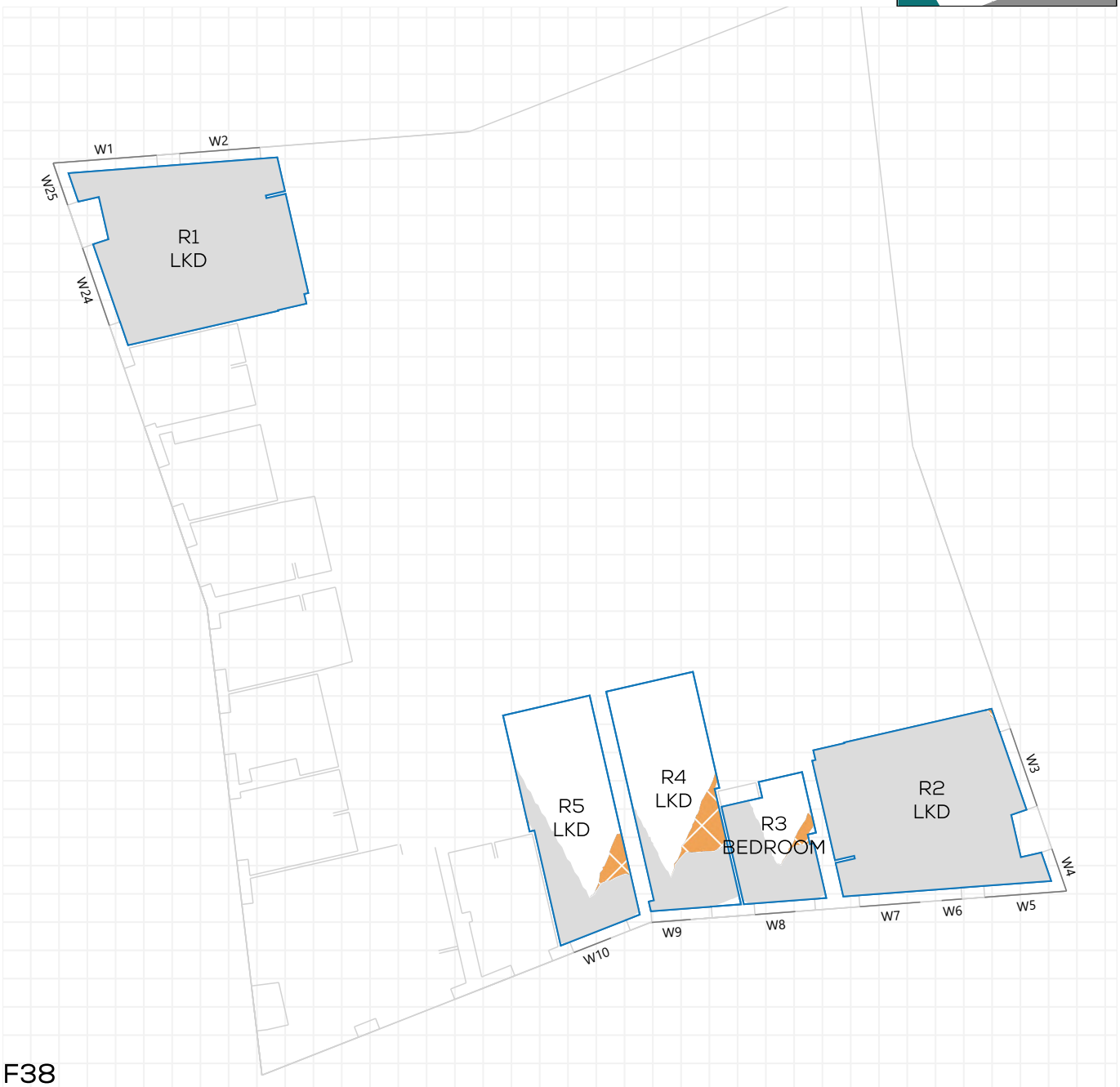
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F37	R11	RESIDENTIAL	BEDROOM	11.1	98.4	98.4	0.0	0
F37	R12	RESIDENTIAL	BEDROOM	9.5	96.6	96.5	0.0	0
F37	R13	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD605

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





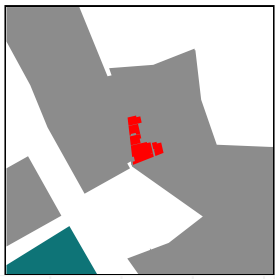
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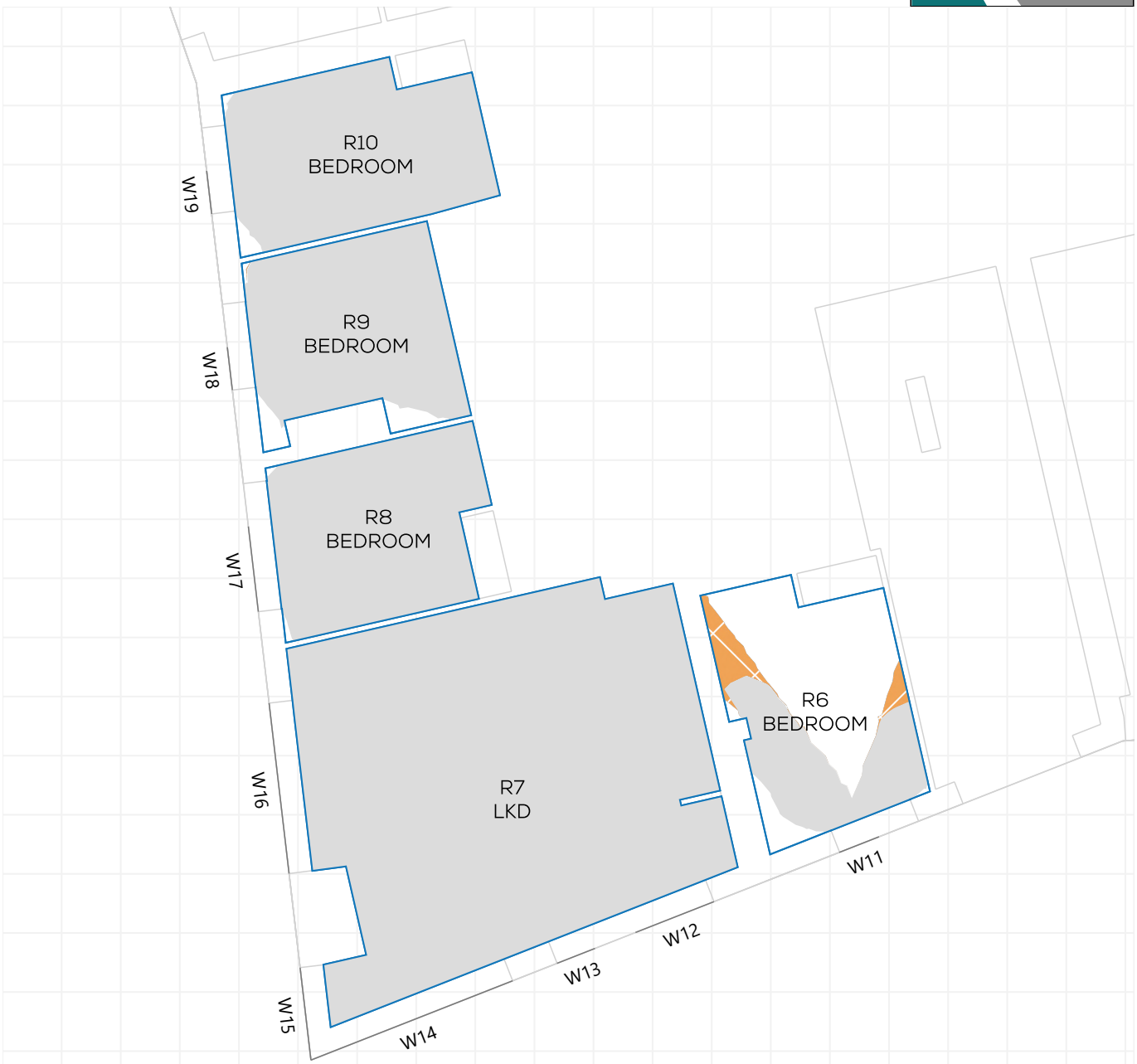
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F38	R1	RESIDENTIAL	LKD	39.4	100	100	0.0	0
F38	R2	RESIDENTIAL	LKD	39.3	100	99.8	0.1	0.2
F38	R3	RESIDENTIAL	BEDROOM	11.9	64.2	60.3	0.5	6
F38	R4	RESIDENTIAL	LKD	25.1	32.5	23.9	2.2	26.5
F38	R5	RESIDENTIAL	LKD	25.0	34.7	30.6	1.0	11.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD606

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





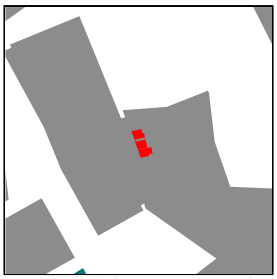
F38

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F38	R6	RESIDENTIAL	BEDROOM	11.9	43.4	35.9	0.9	17.2
F38	R7	RESIDENTIAL	LKD	39.1	100	100	0.0	0
F38	R8	RESIDENTIAL	BEDROOM	10.3	99.5	99.5	0.0	0
F38	R9	RESIDENTIAL	BEDROOM	10.3	94	93.9	0.0	0
F38	R10	RESIDENTIAL	BEDROOM	11.2	98.3	98.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD607

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





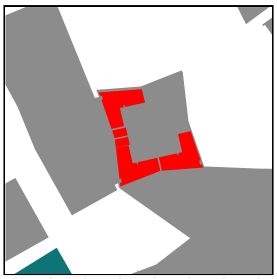
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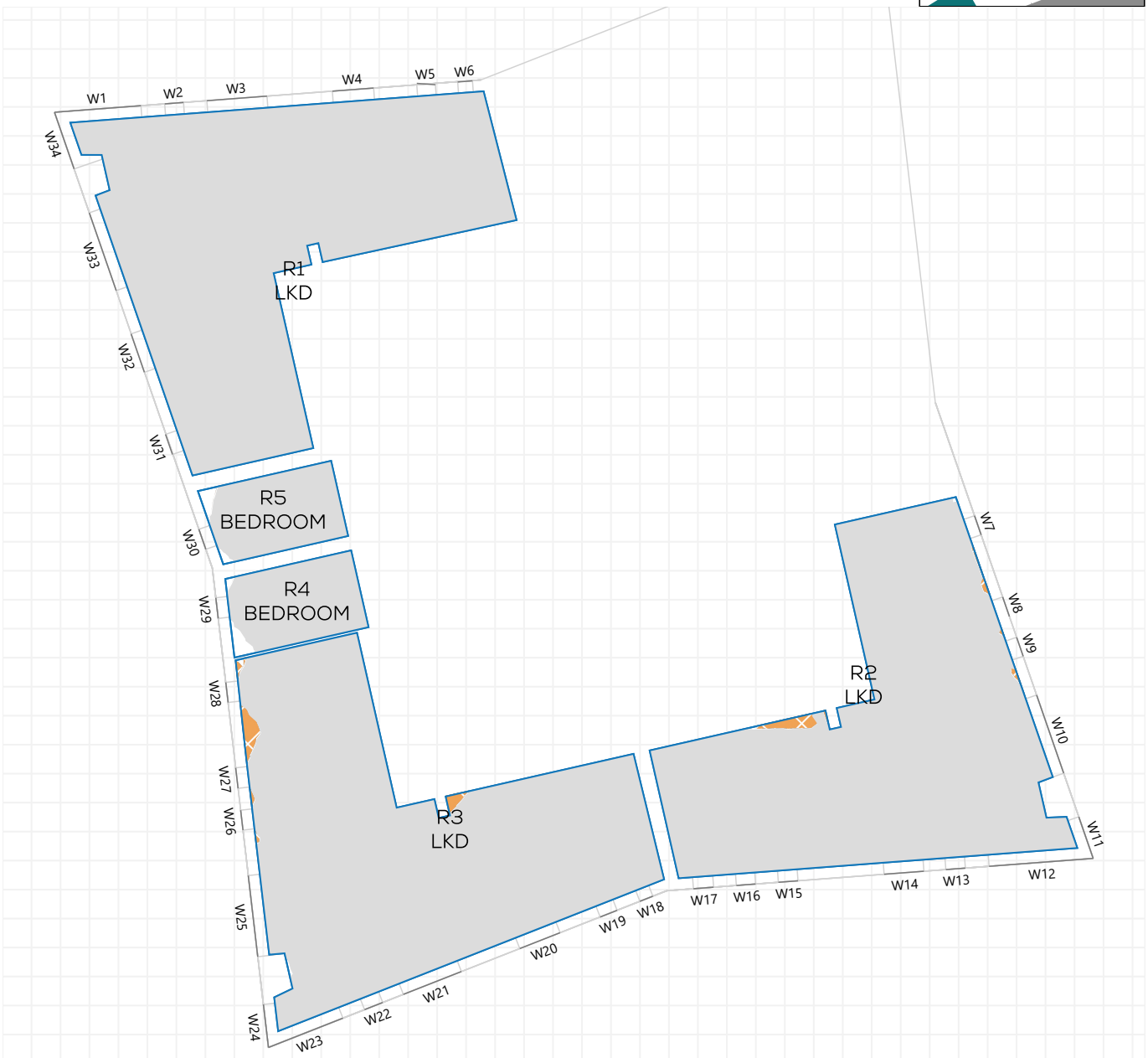
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F38	R11	RESIDENTIAL	BEDROOM	11.1	98.6	98.6	0.0	0
F38	R12	RESIDENTIAL	BEDROOM	9.5	97.1	97.1	0.0	0
F38	R13	RESIDENTIAL	BEDROOM	10.3	99.3	99.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD608

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F39

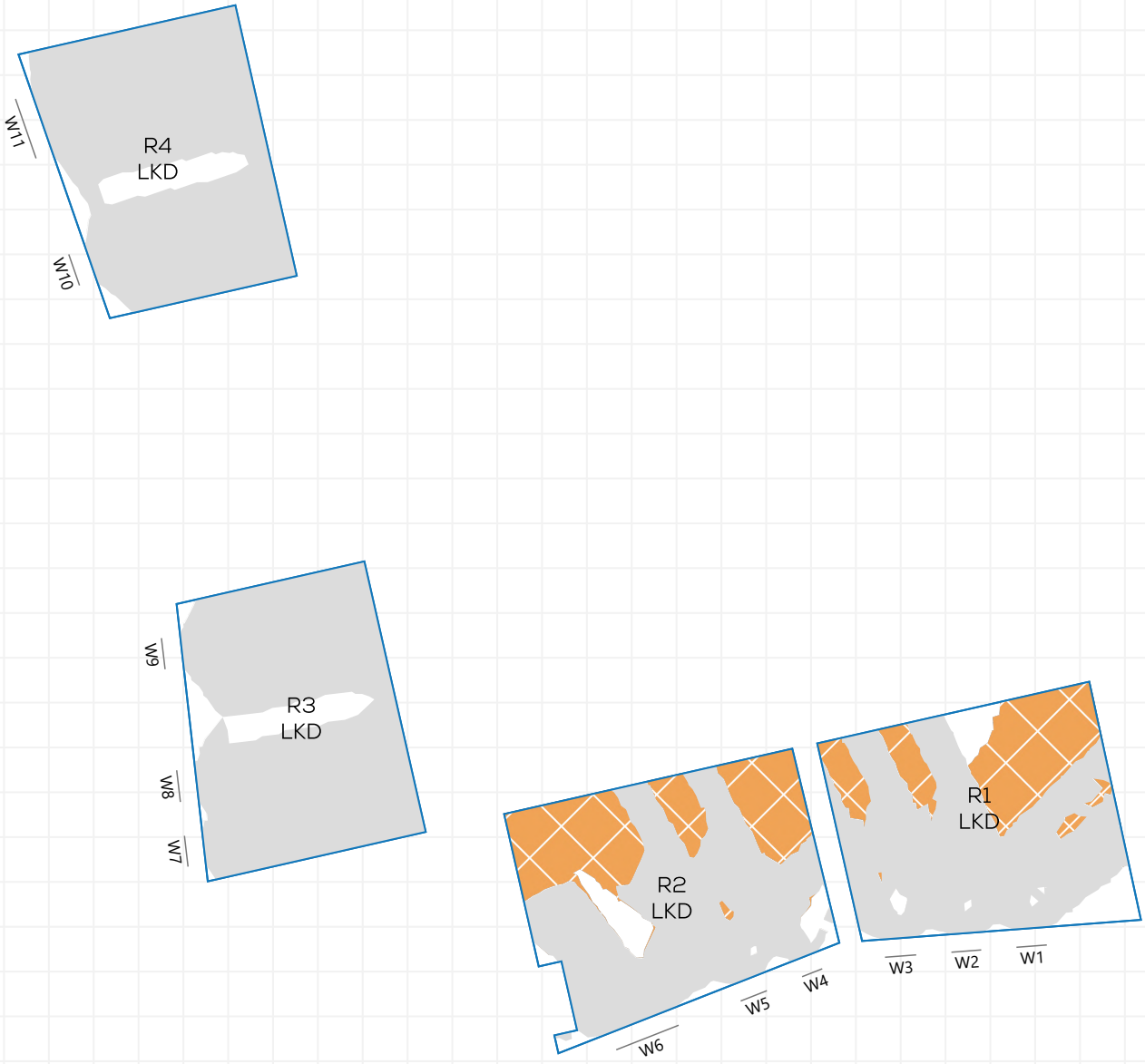
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F39	R1	RESIDENTIAL	LKD	104.3	100	100	0.0	0
F39	R2	RESIDENTIAL	LKD	100.7	100	99	0.9	0.9
F39	R3	RESIDENTIAL	LKD	103.5	99.9	98.8	1.1	1.1
F39	R4	RESIDENTIAL	BEDROOM	12.5	95.2	95.2	0.0	0
F39	R5	RESIDENTIAL	BEDROOM	12.1	95.7	95.7	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: DEANSGATE NORTH TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD609

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





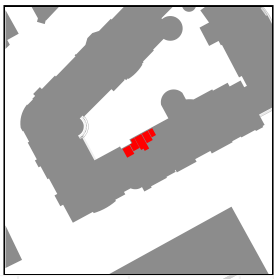
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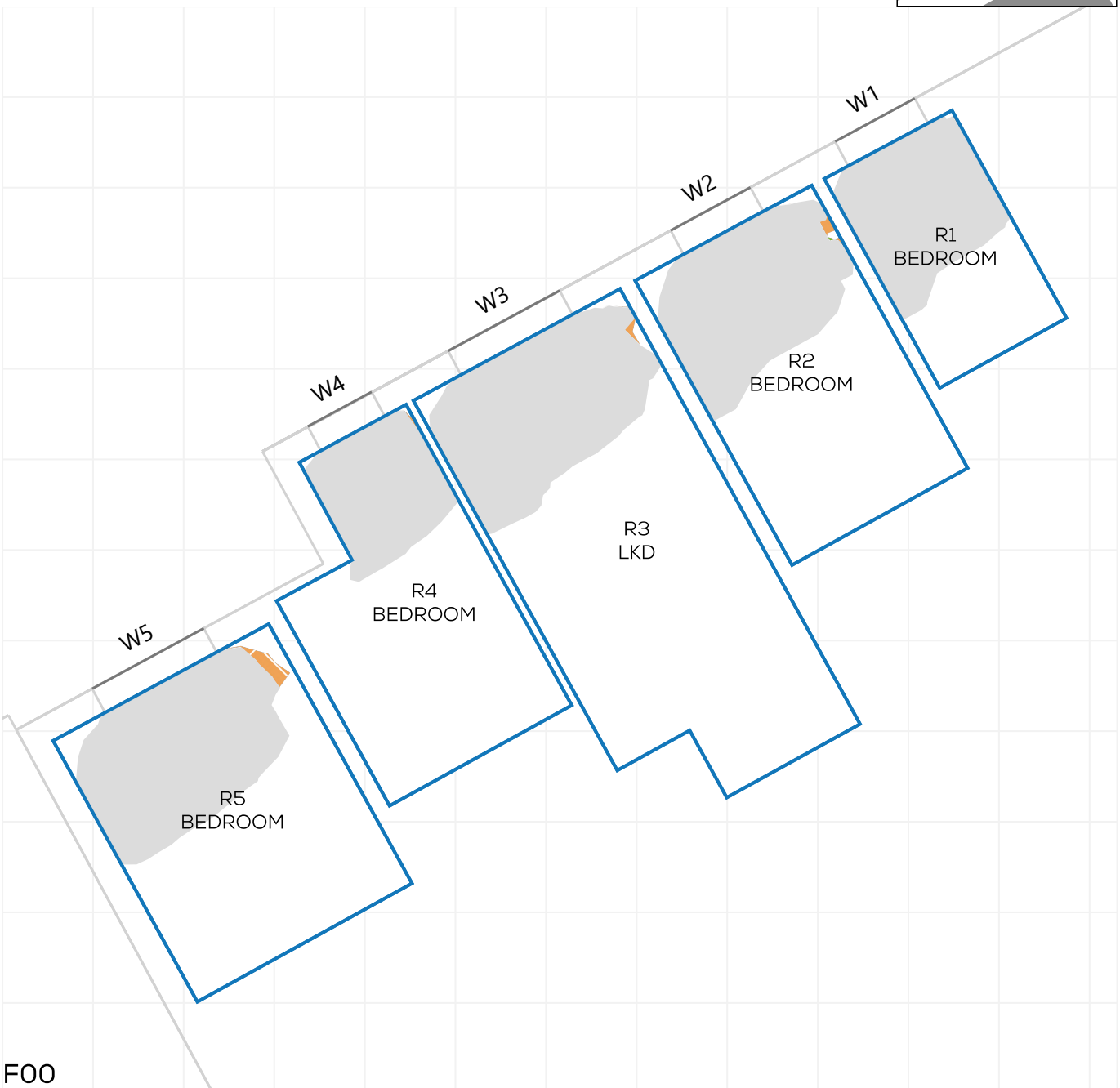
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
DEANSGATE NORTH TOWER								
F40	R1	RESIDENTIAL	LKD	30.9	91.7	64.7	8.3	29.5
F40	R2	RESIDENTIAL	LKD	32.1	92.6	61.4	10.0	33.7
F40	R3	RESIDENTIAL	LKD	28.7	90.3	90.3	0.0	0
F40	R4	RESIDENTIAL	LKD	28.6	90.8	90.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD610

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





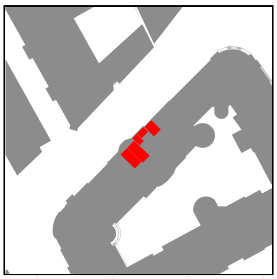
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F00	R1	RESIDENTIAL	BEDROOM	4.2	58.5	58.4	0.0	0.1
F00	R2	RESIDENTIAL	BEDROOM	7.9	39.5	39.2	0.0	0.7
F00	R3	RESIDENTIAL	LKD	13.5	27.1	27	0.0	0.4
F00	R4	RESIDENTIAL	BEDROOM	7.6	24.7	24.7	0.0	0.2
F00	R5	RESIDENTIAL	BEDROOM	8.9	39.8	39	0.1	2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD611

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





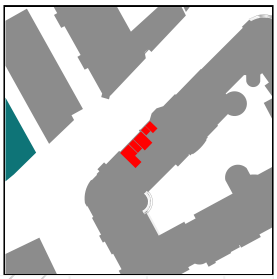
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F00	R6	RESIDENTIAL	BEDROOM	14.1	33	27.7	0.7	16
F00	R7	RESIDENTIAL	BEDROOM	6.8	52.9	38	1.0	28.1
F00	R8	RESIDENTIAL	BEDROOM	6.7	35.1	34	0.1	2.9
F00	R9	RESIDENTIAL	LKD	23.3	11.7	9	0.6	23.1
F00	R10	RESIDENTIAL	LKD	20.9	7.7	3.8	0.8	50.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD612

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F00	R11	RESIDENTIAL	BEDROOM	7.6	29.6	24.2	0.4	18.1
F00	R12	RESIDENTIAL	BEDROOM	4.8	38.2	34.2	0.2	10.5
F00	R13	RESIDENTIAL	BEDROOM	19.1	39.8	35.9	0.7	9.8
F00	R14	RESIDENTIAL	BEDROOM	8.6	84.9	84.9	0.0	0
F00	R15	RESIDENTIAL	LKD	25.0	79.1	76.4	0.7	3.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD613

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F00	R16	RESIDENTIAL	BEDROOM	14.3	65.7	64.1	0.2	2.4
F00	R17	RESIDENTIAL	BEDROOM	8.7	61.3	60.4	0.1	1.4
F00	R18	RESIDENTIAL	LKD	15.6	71.8	65.9	0.9	8.2
F00	R19	RESIDENTIAL	BEDROOM	11.3	55.1	41.5	1.5	24.7
F00	R20	RESIDENTIAL	LKD	20.1	86.3	80	1.3	7.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD614

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





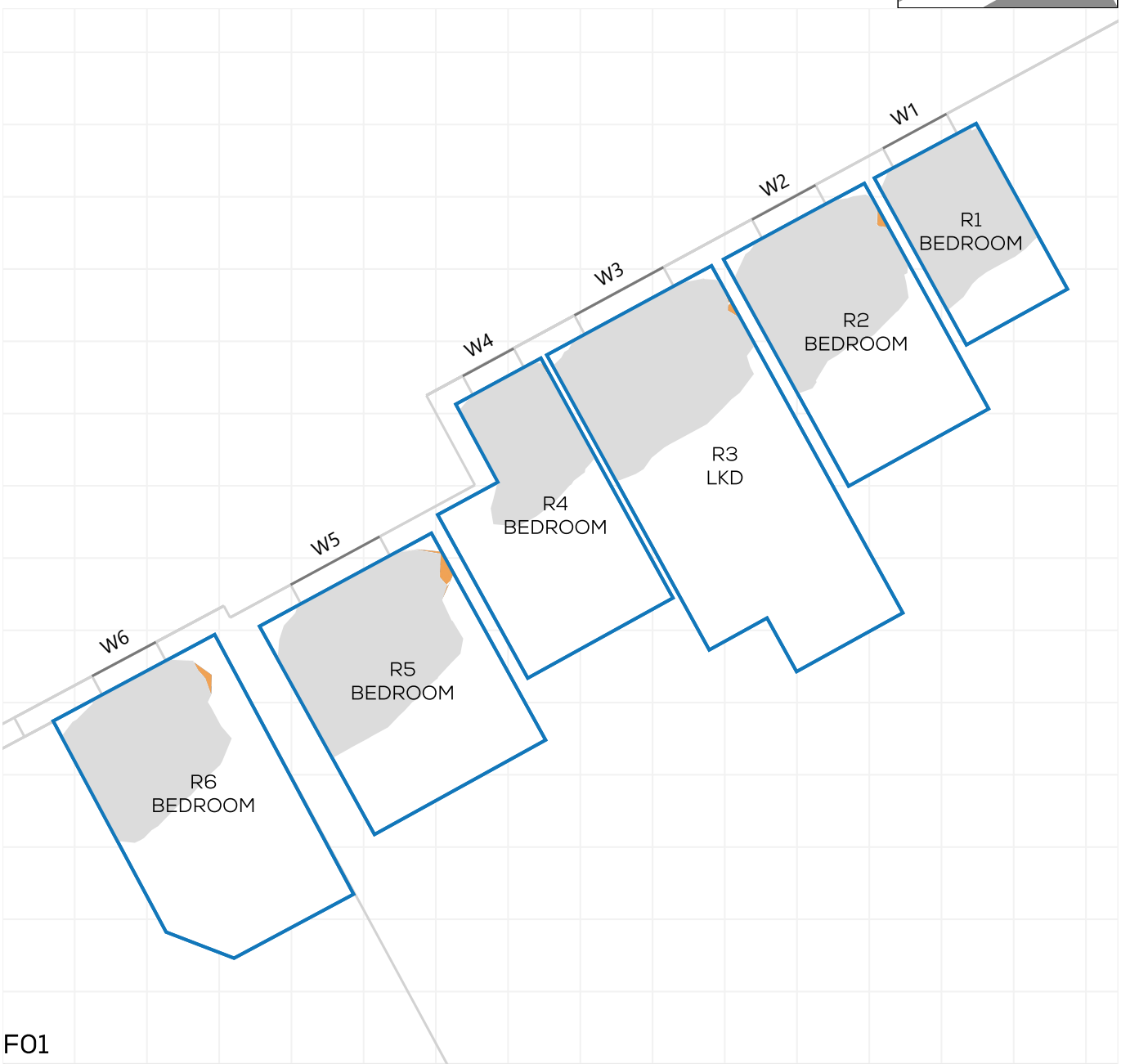
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F00	R21	RESIDENTIAL	BEDROOM	7.9	98	96.7	0.1	1.4
F00	R22	RESIDENTIAL	BEDROOM	13.4	93.9	93	0.1	1
F00	R23	RESIDENTIAL	BEDROOM	14.1	98.4	96.3	0.3	2.1
F00	R24	RESIDENTIAL	BEDROOM	9.5	98.1	92.7	0.5	5.5
F00	R25	RESIDENTIAL	LKD	27.4	98.8	98.6	0.1	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD615

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



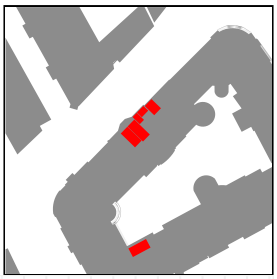
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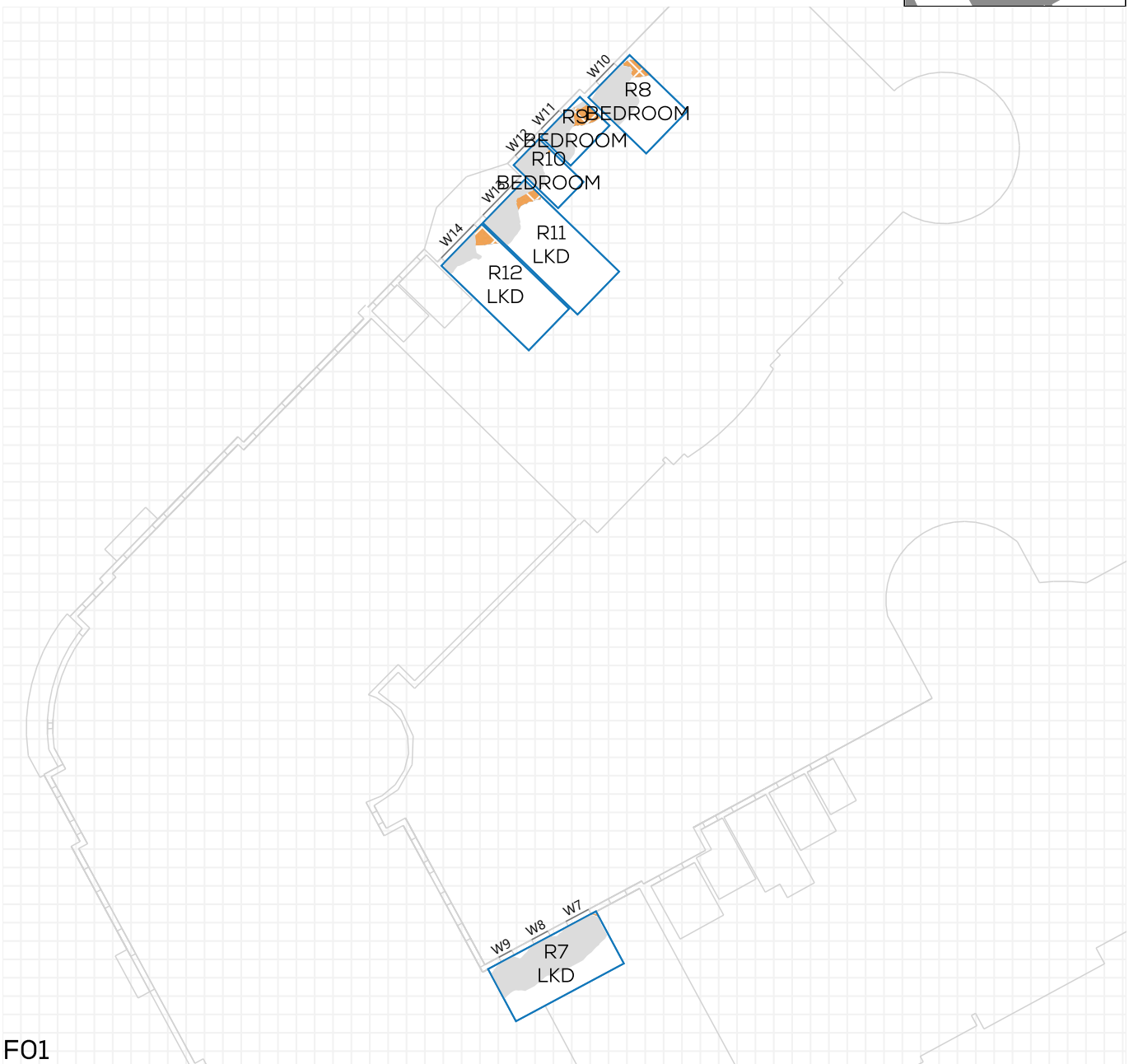
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F01	R1	RESIDENTIAL	BEDROOM	4.2	72.3	72.3	0.0	0.1
F01	R2	RESIDENTIAL	BEDROOM	7.9	51	50.6	0.0	0.6
F01	R3	RESIDENTIAL	LKD	13.5	34.5	34.4	0.0	0.4
F01	R4	RESIDENTIAL	BEDROOM	7.6	33.2	33.1	0.0	0.2
F01	R5	RESIDENTIAL	BEDROOM	8.9	52.3	51.7	0.1	1.2
F01	R6	RESIDENTIAL	BEDROOM	10.1	36.3	36	0.0	0.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD616

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





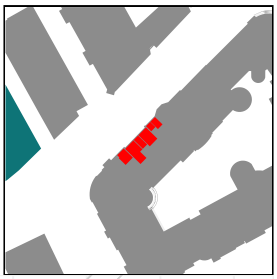
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F01	R7	RESIDENTIAL	LKD	21.5	55.8	55.6	0.0	0.3
F01	R8	RESIDENTIAL	BEDROOM	14.1	40.4	35.2	0.7	12.9
F01	R9	RESIDENTIAL	BEDROOM	6.8	61.3	44.7	1.1	27.1
F01	R10	RESIDENTIAL	BEDROOM	6.7	40.5	40	0.0	1.3
F01	R11	RESIDENTIAL	LKD	23.3	19.2	16.3	0.7	15.5
F01	R12	RESIDENTIAL	LKD	20.9	13.6	9.1	0.9	33.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD617

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F01	R13	RESIDENTIAL	BEDROOM	7.6	31.9	27	0.4	15.5
F01	R14	RESIDENTIAL	BEDROOM	4.8	41.7	38.3	0.2	8.3
F01	R15	RESIDENTIAL	BEDROOM	19.1	45.5	41.6	0.7	8.6
F01	R16	RESIDENTIAL	BEDROOM	8.6	87.8	87.8	0.0	0
F01	R17	RESIDENTIAL	LKD	25.0	82.2	80.6	0.4	1.9
F01	R18	RESIDENTIAL	BEDROOM	14.3	68.4	67.7	0.1	1.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD618

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F01	R19	RESIDENTIAL	BEDROOM	8.7	64.5	63.9	0.1	1
F01	R20	RESIDENTIAL	LKD	15.6	75.4	71.5	0.6	5.2
F01	R21	RESIDENTIAL	BEDROOM	11.3	58.5	44.9	1.5	23.3
F01	R22	RESIDENTIAL	LKD	20.1	87.6	80.4	1.5	8.3
F01	R23	RESIDENTIAL	BEDROOM	7.9	98	96.7	0.1	1.4
F01	R24	RESIDENTIAL	BEDROOM	13.4	93.8	93	0.1	1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD619

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





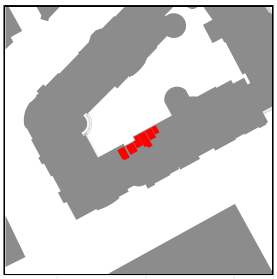
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F01	R25	RESIDENTIAL	BEDROOM	14.1	98.3	96.3	0.3	2.1
F01	R26	RESIDENTIAL	BEDROOM	9.5	98.2	92.7	0.5	5.6
F01	R27	RESIDENTIAL	LKD	27.4	98.9	98.7	0.1	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD620

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





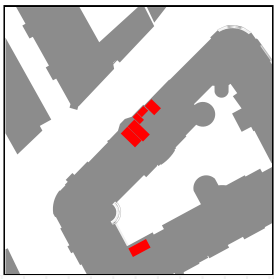
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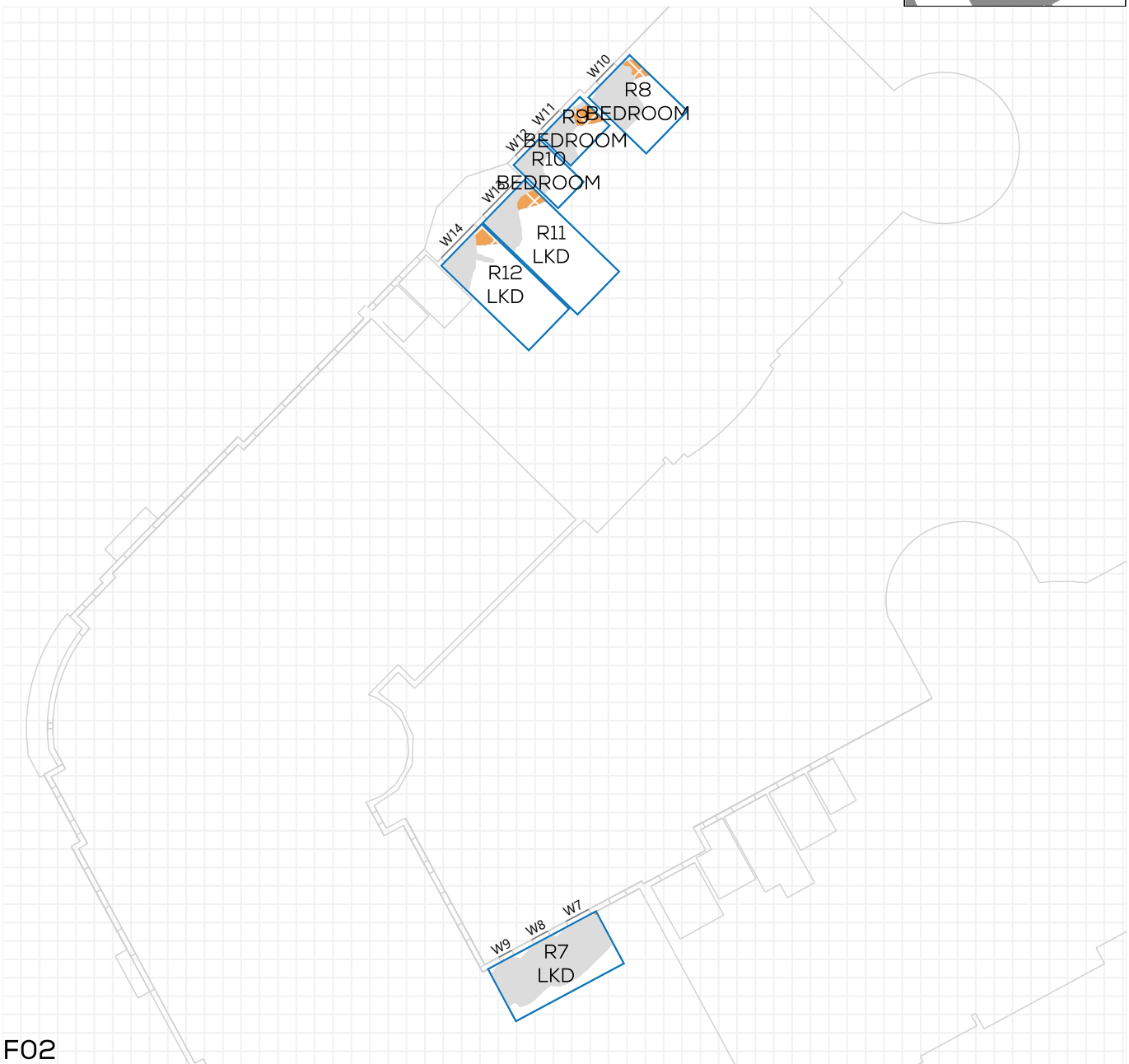
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F02	R1	RESIDENTIAL	BEDROOM	4.2	97.4	97.4	0.0	0
F02	R2	RESIDENTIAL	BEDROOM	7.9	69.1	68.8	0.0	0.4
F02	R3	RESIDENTIAL	LKD	13.5	47.3	47.3	0.0	0
F02	R4	RESIDENTIAL	BEDROOM	7.6	50.4	50.3	0.0	0.1
F02	R5	RESIDENTIAL	BEDROOM	8.9	72.2	71.9	0.0	0.4
F02	R6	RESIDENTIAL	BEDROOM	10.1	51	50	0.1	1.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD621

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





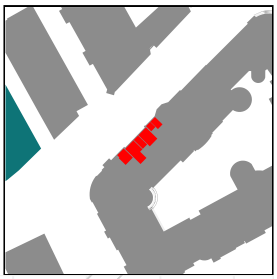
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F02	R7	RESIDENTIAL	LKD	21.5	76.3	76.2	0.0	0.1
F02	R8	RESIDENTIAL	BEDROOM	14.1	47.2	42	0.7	11
F02	R9	RESIDENTIAL	BEDROOM	6.8	67.3	49.4	1.2	26.6
F02	R10	RESIDENTIAL	BEDROOM	6.7	45.1	44.9	0.0	0.3
F02	R11	RESIDENTIAL	LKD	23.3	22.9	18.5	1.0	19
F02	R12	RESIDENTIAL	LKD	20.9	21	16.5	0.9	21.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD622

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F02	R13	RESIDENTIAL	BEDROOM	7.6	36.2	32.1	0.3	11.5
F02	R14	RESIDENTIAL	BEDROOM	4.8	49.6	47.6	0.1	4
F02	R15	RESIDENTIAL	BEDROOM	19.1	54.2	50	0.8	7.8
F02	R16	RESIDENTIAL	BEDROOM	8.6	91.7	91.7	0.0	0
F02	R17	RESIDENTIAL	LKD	25.0	84.6	84.2	0.1	0.5
F02	R18	RESIDENTIAL	BEDROOM	14.3	74.8	74.1	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD623

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F02	R19	RESIDENTIAL	BEDROOM	8.7	70.5	69.9	0.1	0.9
F02	R20	RESIDENTIAL	LKD	15.6	78.4	77.9	0.1	0.6
F02	R21	RESIDENTIAL	BEDROOM	11.3	64.2	50.5	1.5	21.3
F02	R22	RESIDENTIAL	LKD	20.1	88.1	80.6	1.5	8.5
F02	R23	RESIDENTIAL	BEDROOM	7.9	98	96.7	0.1	1.4
F02	R24	RESIDENTIAL	BEDROOM	13.4	93.9	93	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD624

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





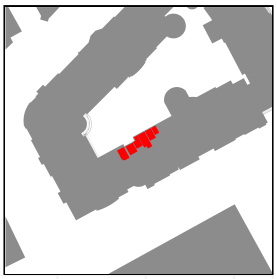
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F02	R25	RESIDENTIAL	BEDROOM	14.1	98.3	96.3	0.3	2.1
F02	R26	RESIDENTIAL	BEDROOM	9.5	98.3	92.7	0.5	5.7
F02	R27	RESIDENTIAL	LKD	27.4	98.9	98.7	0.1	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD625

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





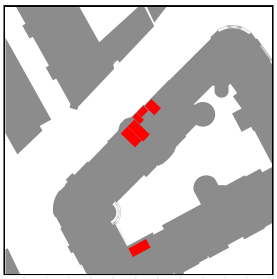
F03

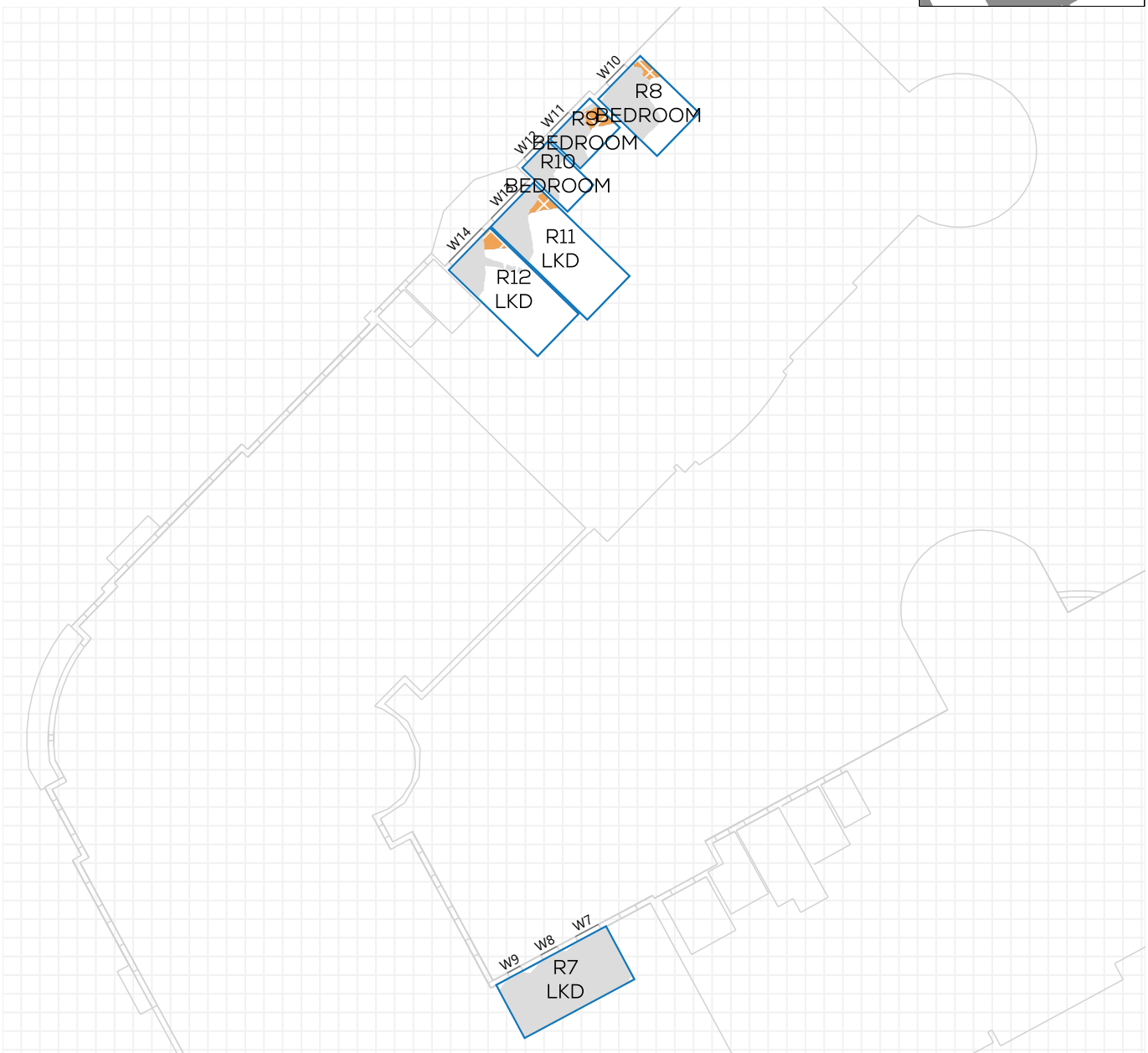
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F03	R1	RESIDENTIAL	BEDROOM	4.2	99.3	99.3	0.0	0
F03	R2	RESIDENTIAL	BEDROOM	7.9	97.9	97.6	0.0	0.3
F03	R3	RESIDENTIAL	LKD	13.5	68.4	68.4	0.0	0
F03	R4	RESIDENTIAL	BEDROOM	7.6	82.9	82.9	0.0	0
F03	R5	RESIDENTIAL	BEDROOM	8.9	96.6	96.5	0.0	0
F03	R6	RESIDENTIAL	BEDROOM	10.1	76.2	75.6	0.1	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD626

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





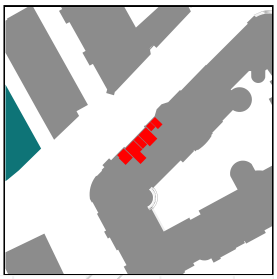
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F03	R7	RESIDENTIAL	LKD	21.5	97.8	97.7	0.0	0
F03	R8	RESIDENTIAL	BEDROOM	14.1	54.4	49.3	0.7	9.3
F03	R9	RESIDENTIAL	BEDROOM	6.8	71.2	53.7	1.2	24.6
F03	R10	RESIDENTIAL	BEDROOM	6.7	50.6	50.5	0.0	0.1
F03	R11	RESIDENTIAL	LKD	23.3	24.9	21.2	0.9	14.8
F03	R12	RESIDENTIAL	LKD	20.9	23.9	19.4	1.0	19.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD627

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F03

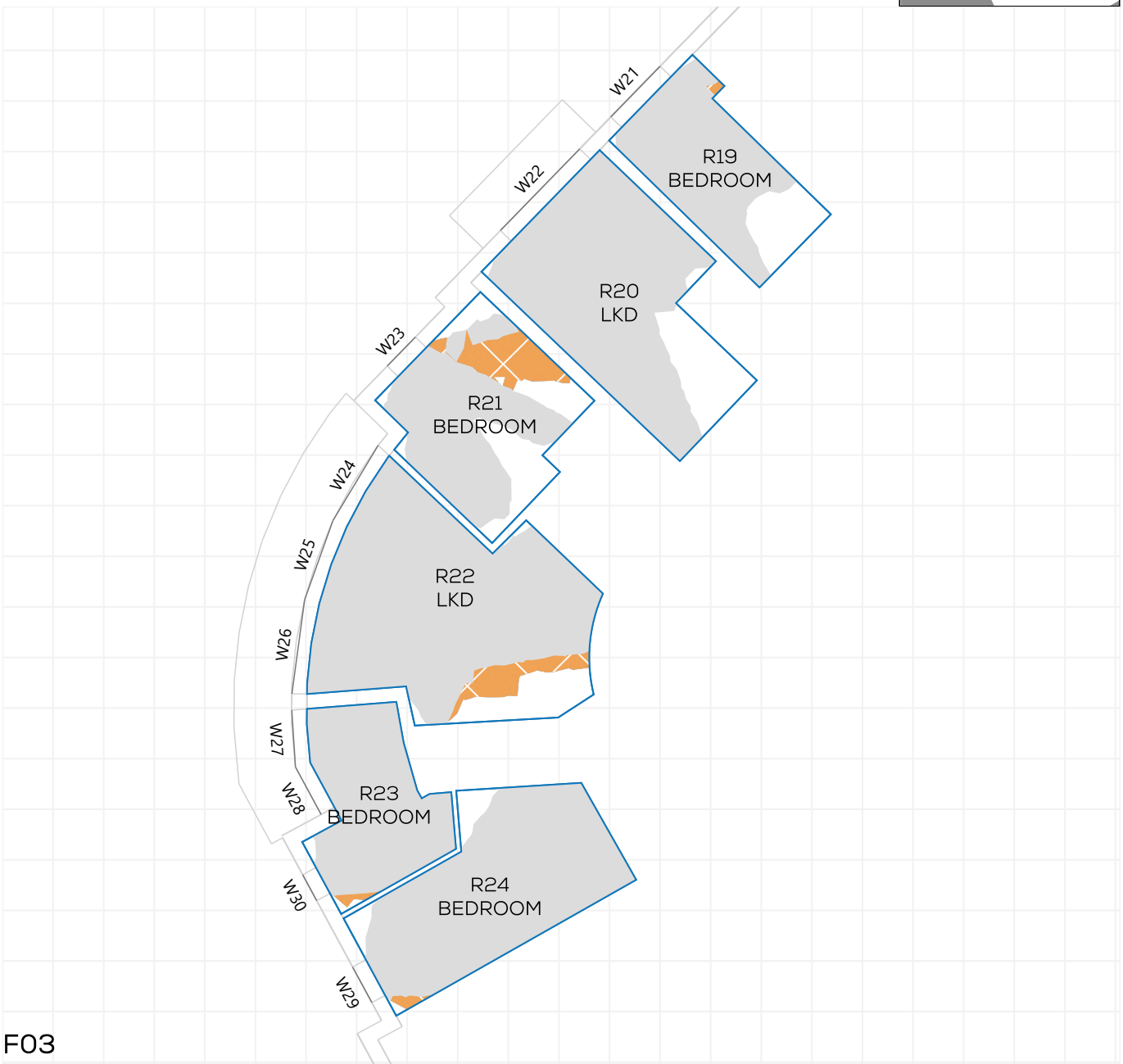
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F03	R13	RESIDENTIAL	BEDROOM	7.6	44.2	40.6	0.3	8.1
F03	R14	RESIDENTIAL	BEDROOM	4.8	62.1	60.5	0.1	2.6
F03	R15	RESIDENTIAL	BEDROOM	19.1	66.2	62.2	0.8	6
F03	R16	RESIDENTIAL	BEDROOM	8.6	95.2	95.2	0.0	0
F03	R17	RESIDENTIAL	LKD	25.0	89.9	89.7	0.1	0.3
F03	R18	RESIDENTIAL	BEDROOM	14.3	83.6	82.9	0.1	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD628

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F03	R19	RESIDENTIAL	BEDROOM	8.7	80	79.4	0.1	0.8
F03	R20	RESIDENTIAL	LKD	15.6	84.1	84.1	0.0	0
F03	R21	RESIDENTIAL	BEDROOM	11.3	74.9	61.6	1.5	17.8
F03	R22	RESIDENTIAL	LKD	20.1	90.6	85.3	1.1	5.8
F03	R23	RESIDENTIAL	BEDROOM	7.9	98.1	96.7	0.1	1.4
F03	R24	RESIDENTIAL	BEDROOM	13.4	93.9	93	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD629

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F03

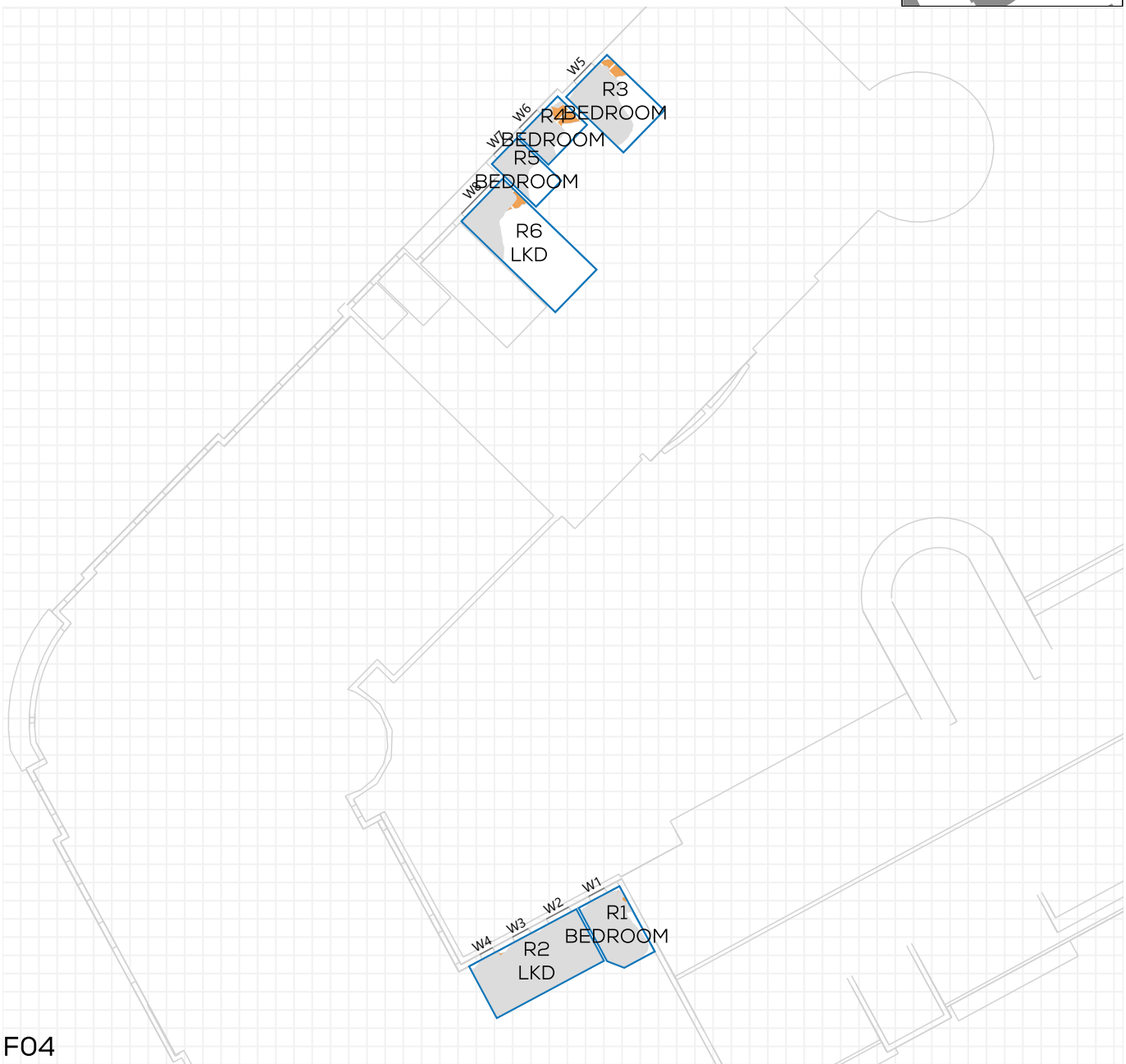
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F03	R25	RESIDENTIAL	BEDROOM	14.1	98.4	96.3	0.3	2.1
F03	R26	RESIDENTIAL	BEDROOM	9.5	98.3	92.8	0.5	5.7
F03	R27	RESIDENTIAL	LKD	27.4	98.9	98.7	0.1	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD630

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





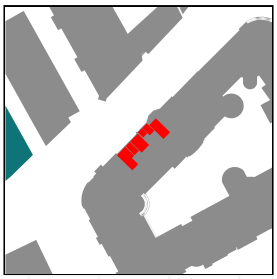
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F04	R1	RESIDENTIAL	BEDROOM	10.1	91.7	91	0.1	0.7
F04	R2	RESIDENTIAL	LKD	21.4	98.5	98.4	0.0	0.1
F04	R3	RESIDENTIAL	BEDROOM	14.1	64.6	59.6	0.7	7.7
F04	R4	RESIDENTIAL	BEDROOM	6.8	77	59.6	1.2	22.6
F04	R5	RESIDENTIAL	BEDROOM	6.7	58.4	58.3	0.0	0
F04	R6	RESIDENTIAL	LKD	23.3	27.3	25.4	0.4	6.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD631

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F04

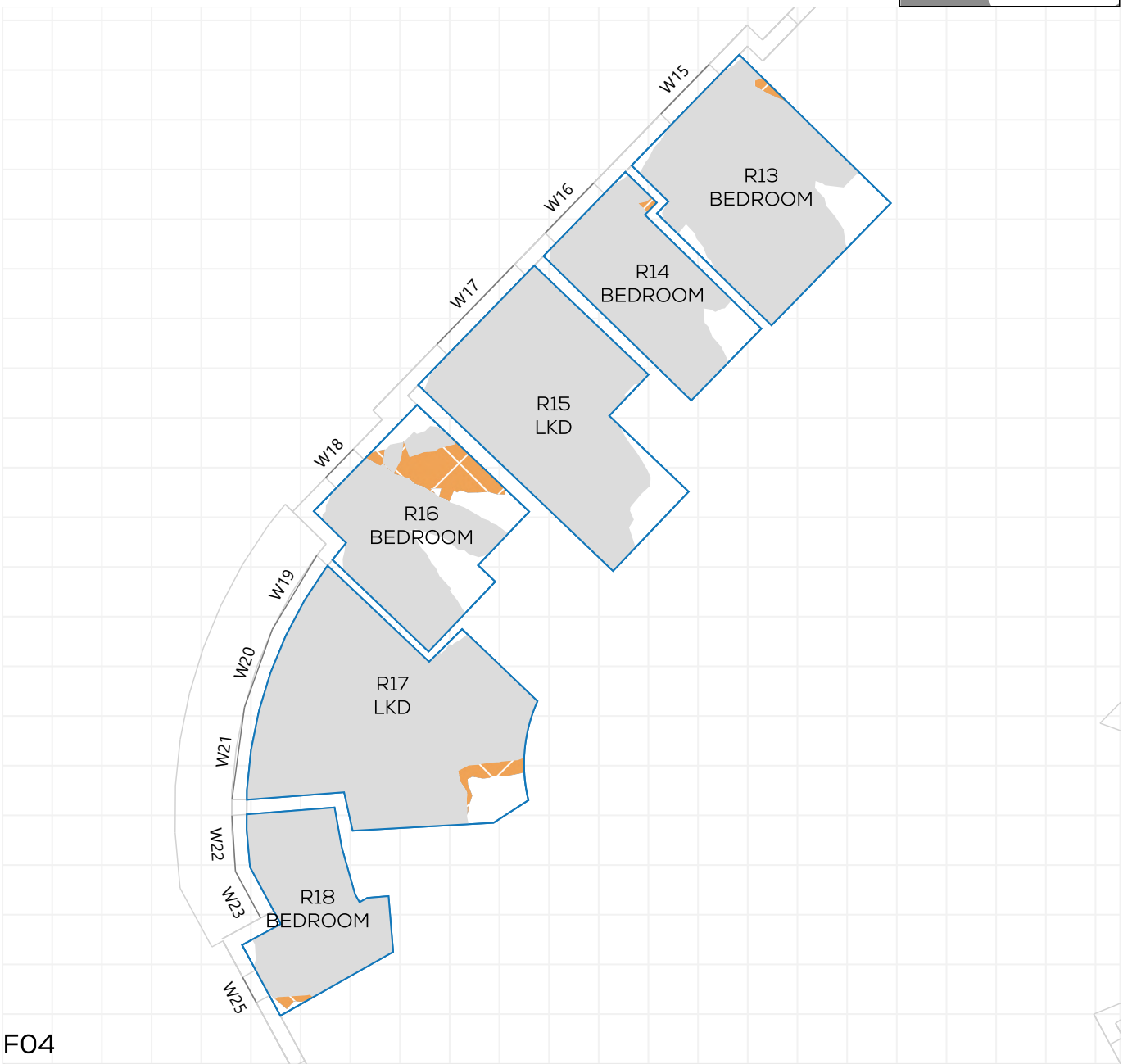
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F04	R7	RESIDENTIAL	LKD	20.9	29.7	28	0.3	5.6
F04	R8	RESIDENTIAL	BEDROOM	7.6	52.8	49.4	0.3	6.6
F04	R9	RESIDENTIAL	BEDROOM	4.8	76.7	75.3	0.1	1.9
F04	R10	RESIDENTIAL	BEDROOM	19.1	72	68.1	0.7	5.4
F04	R11	RESIDENTIAL	BEDROOM	8.6	95.9	95.9	0.0	0
F04	R12	RESIDENTIAL	LKD	25.0	94.3	94	0.1	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD632

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F04	R13	RESIDENTIAL	BEDROOM	14.3	90.4	89.7	0.1	0.7
F04	R14	RESIDENTIAL	BEDROOM	8.7	91	90.5	0.0	0.6
F04	R15	RESIDENTIAL	LKD	15.6	92.7	92.7	0.0	0
F04	R16	RESIDENTIAL	BEDROOM	11.3	78.4	65.1	1.5	17
F04	R17	RESIDENTIAL	LKD	20.1	95	92.9	0.4	2.2
F04	R18	RESIDENTIAL	BEDROOM	7.9	98.1	96.8	0.1	1.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK C
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD633

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





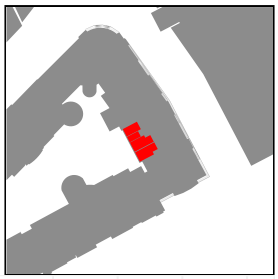
F04

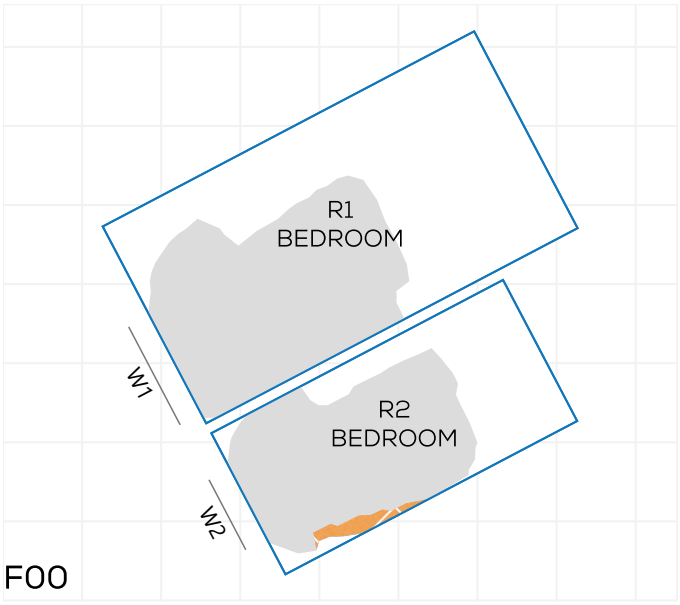
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK C								
F04	R19	RESIDENTIAL	BEDROOM	13.4	93.9	93	0.1	0.9
F04	R20	RESIDENTIAL	BEDROOM	14.1	98.4	96.3	0.3	2
F04	R21	RESIDENTIAL	BEDROOM	9.5	98.7	92.8	0.6	6
F04	R22	RESIDENTIAL	LKD	27.4	99.1	98.7	0.1	0.4

NSL CONTOURS

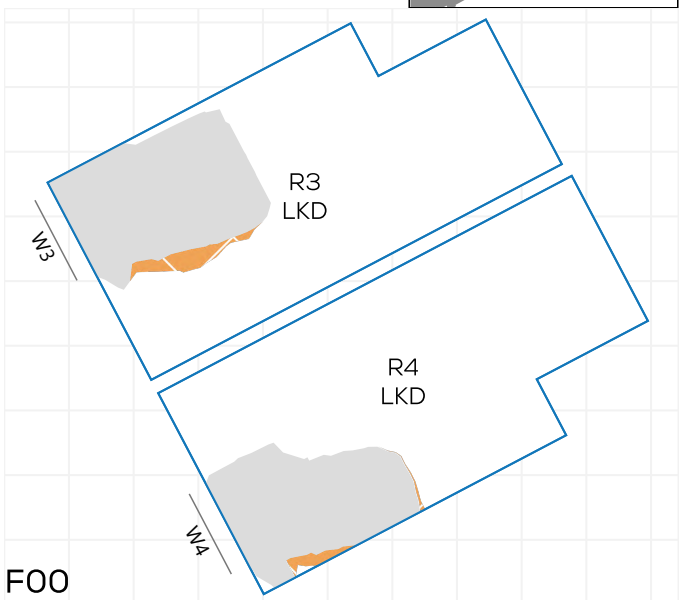
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK A
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD634

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

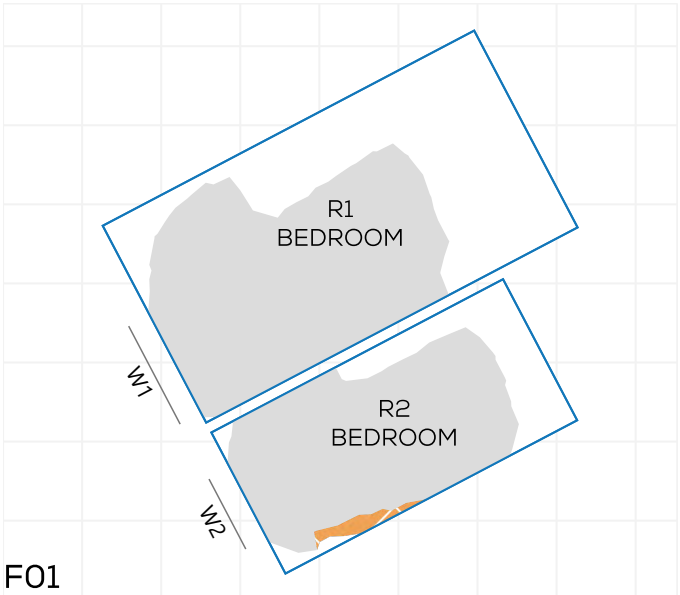




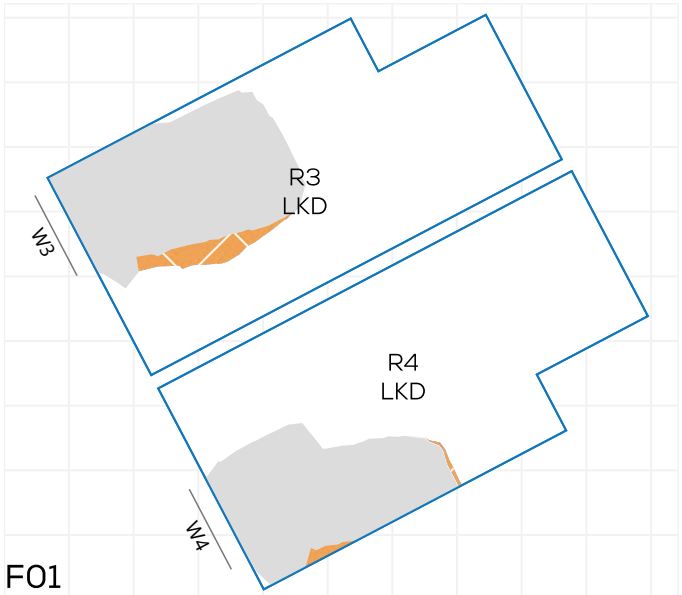
F00



F00



F01



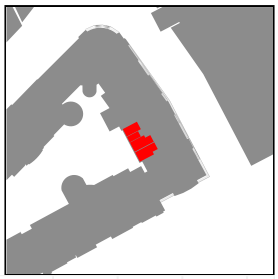
F01

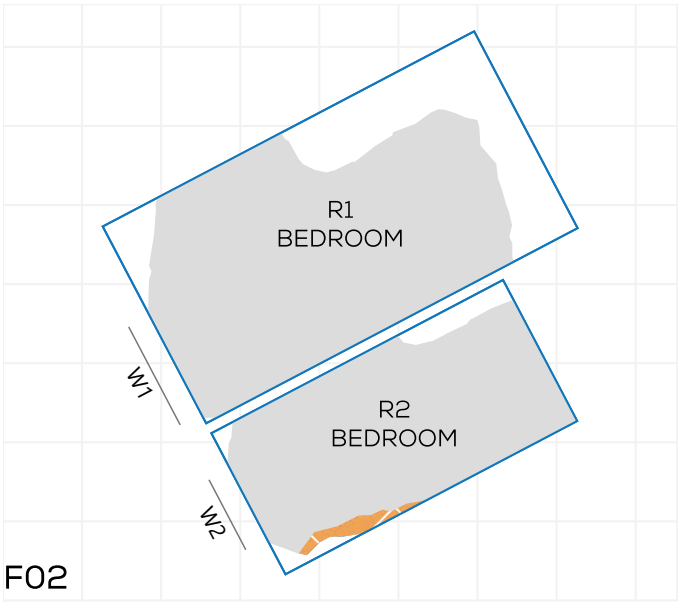
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK A								
F00	R1	RESIDENTIAL	BEDROOM	14.9	41.8	41.8	0.0	0
F00	R2	RESIDENTIAL	BEDROOM	8.4	61	58.5	0.2	4.1
F00	R3	RESIDENTIAL	LKD	23.0	25.4	23.7	0.4	6.7
F00	R4	RESIDENTIAL	LKD	23.5	20	19.2	0.2	3.7
F01	R1	RESIDENTIAL	BEDROOM	14.9	54.8	54.8	0.0	0
F01	R2	RESIDENTIAL	BEDROOM	8.4	75.7	73.3	0.2	3.1
F01	R3	RESIDENTIAL	LKD	23.0	32.4	29.7	0.6	8.3
F01	R4	RESIDENTIAL	LKD	23.5	24.2	23.6	0.1	2.4

NSL CONTOURS

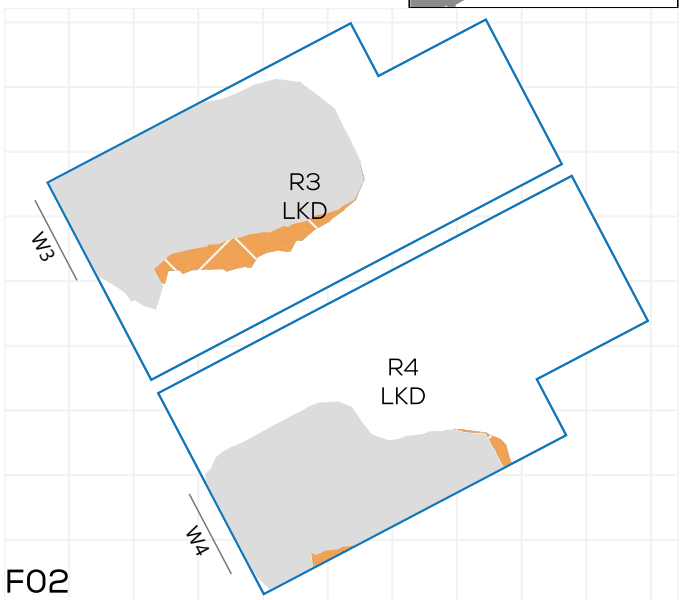
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK A
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD635

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

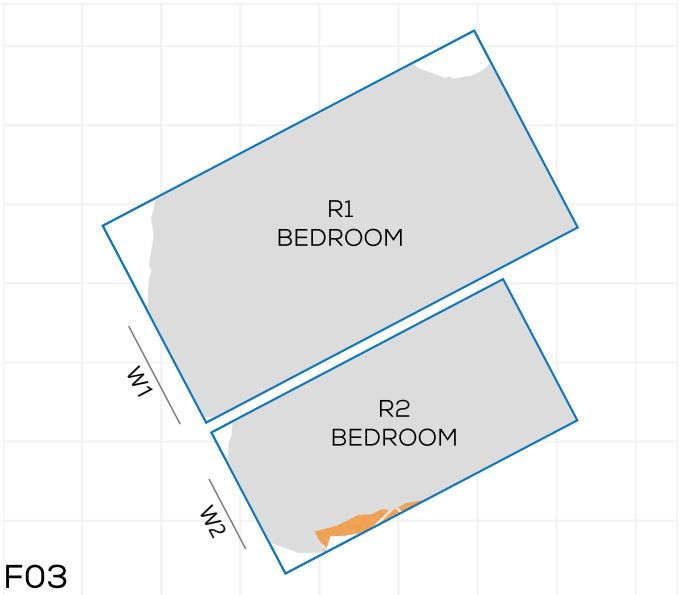




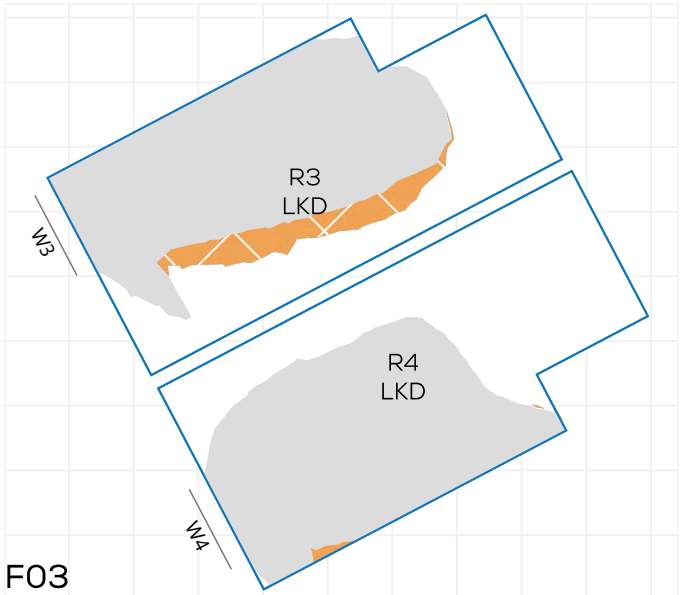
F02



F02



F03



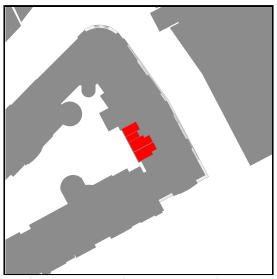
F03

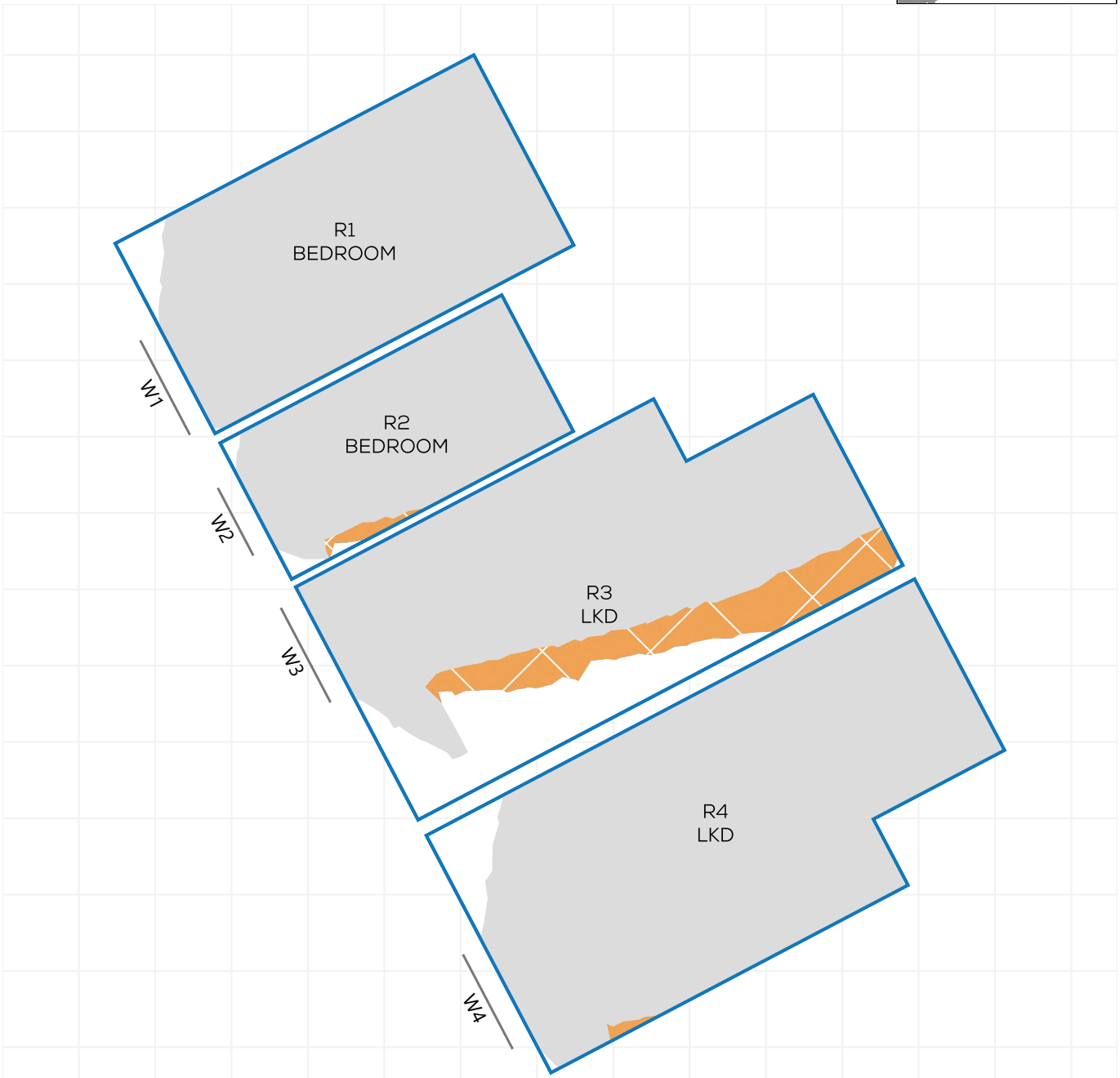
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK A								
F02	R1	RESIDENTIAL	BEDROOM	14.9	75	75	0.0	0
F02	R2	RESIDENTIAL	BEDROOM	8.4	92.8	90.1	0.2	2.9
F02	R3	RESIDENTIAL	LKD	23.0	44.7	40.5	1.0	9.5
F02	R4	RESIDENTIAL	LKD	23.5	31.4	30.7	0.2	2.4
F03	R1	RESIDENTIAL	BEDROOM	14.9	94.7	94.7	0.0	0
F03	R2	RESIDENTIAL	BEDROOM	8.4	97.5	95.1	0.2	2.5
F03	R3	RESIDENTIAL	LKD	23.0	64.7	57	1.8	11.9
F03	R4	RESIDENTIAL	LKD	23.5	53.2	52.8	0.1	0.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: CITY SOUTH BLOCK A
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD636

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





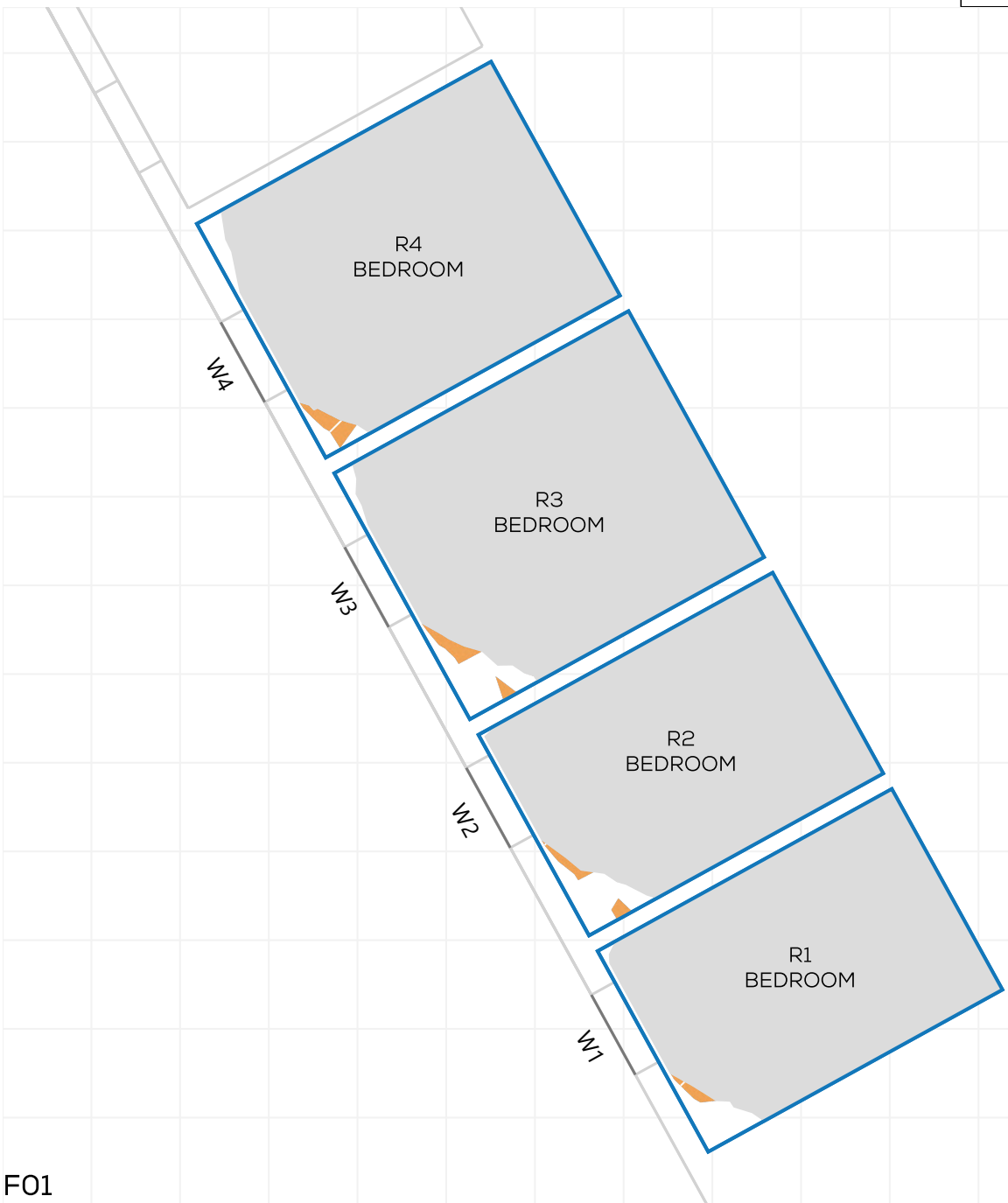
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
CITY SOUTH BLOCK A								
F04	R1	RESIDENTIAL	BEDROOM	14.9	97	97	0.0	0
F04	R2	RESIDENTIAL	BEDROOM	8.4	97.5	95.3	0.2	2.3
F04	R3	RESIDENTIAL	LKD	23.0	83.5	70.2	3.1	16
F04	R4	RESIDENTIAL	LKD	23.5	96.3	95.9	0.1	0.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD637

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



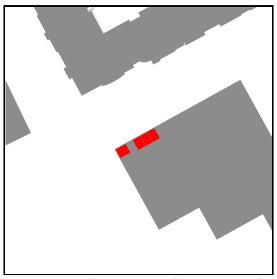
F01

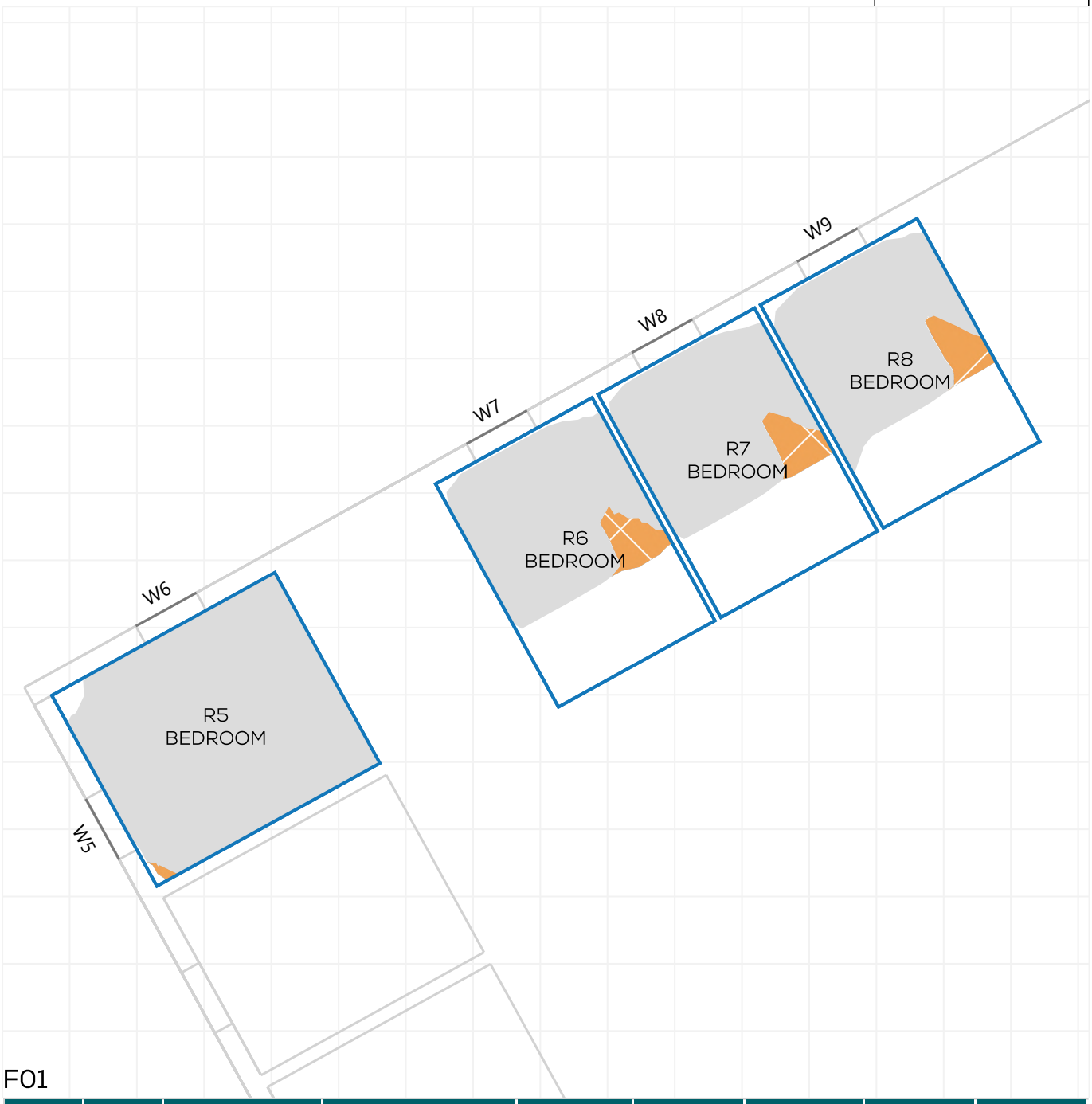
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F01	R1	RESIDENTIAL	BEDROOM	9.8	95.8	95.4	0.0	0.5
F01	R2	RESIDENTIAL	BEDROOM	9.8	95	94.3	0.1	0.8
F01	R3	RESIDENTIAL	BEDROOM	12.0	95	94.2	0.1	0.9
F01	R4	RESIDENTIAL	BEDROOM	11.4	97	96.1	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD638

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





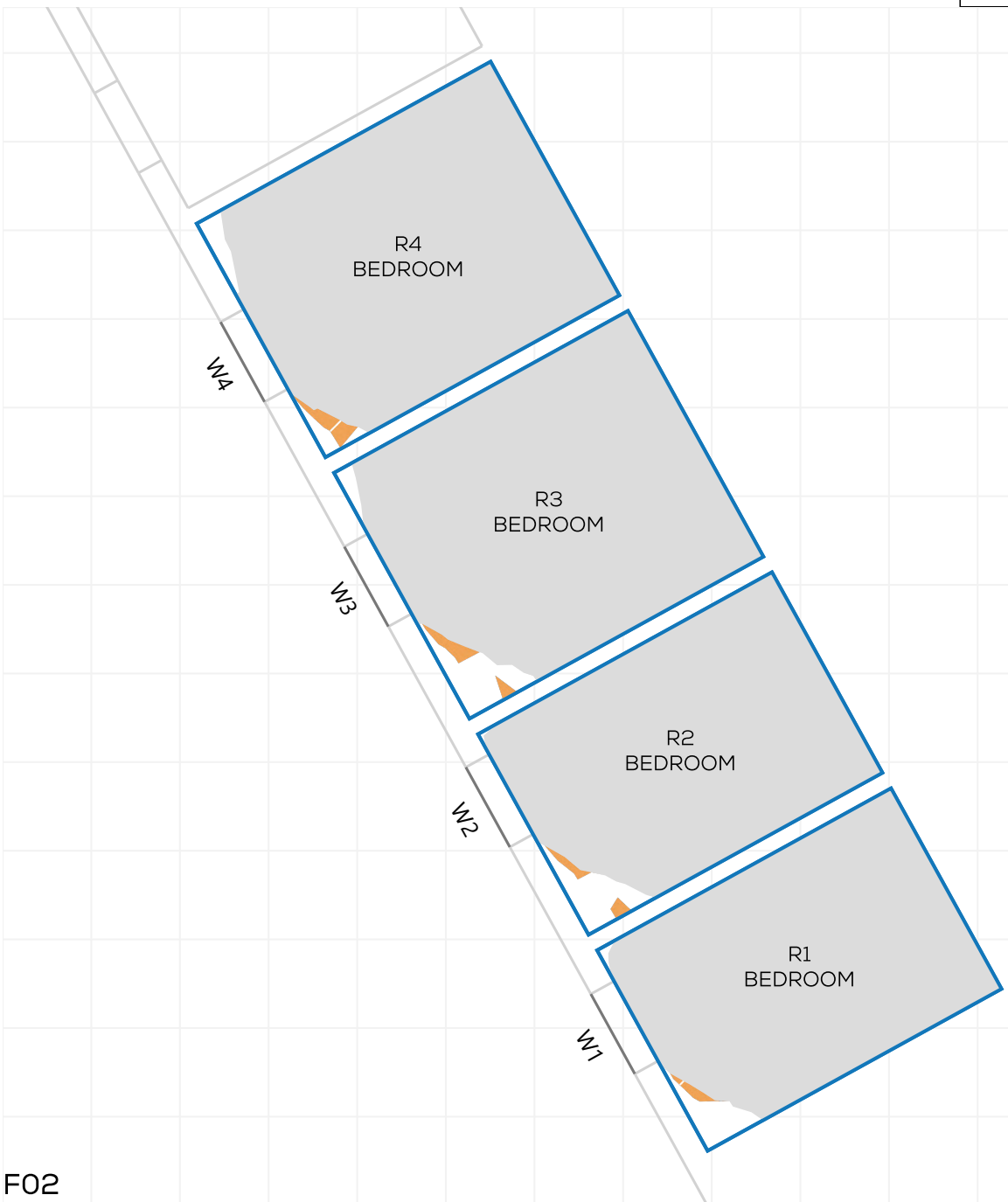
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F01	R5	RESIDENTIAL	BEDROOM	12.3	98.2	97.8	0.0	0.4
F01	R6	RESIDENTIAL	BEDROOM	10.1	63.5	57.9	0.6	8.8
F01	R7	RESIDENTIAL	BEDROOM	10.1	63	57.5	0.6	8.8
F01	R8	RESIDENTIAL	BEDROOM	10.1	63.9	58.6	0.5	8.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD639

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



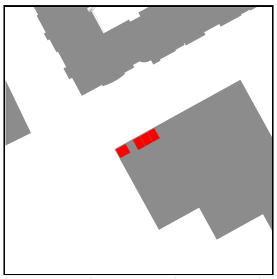
F02

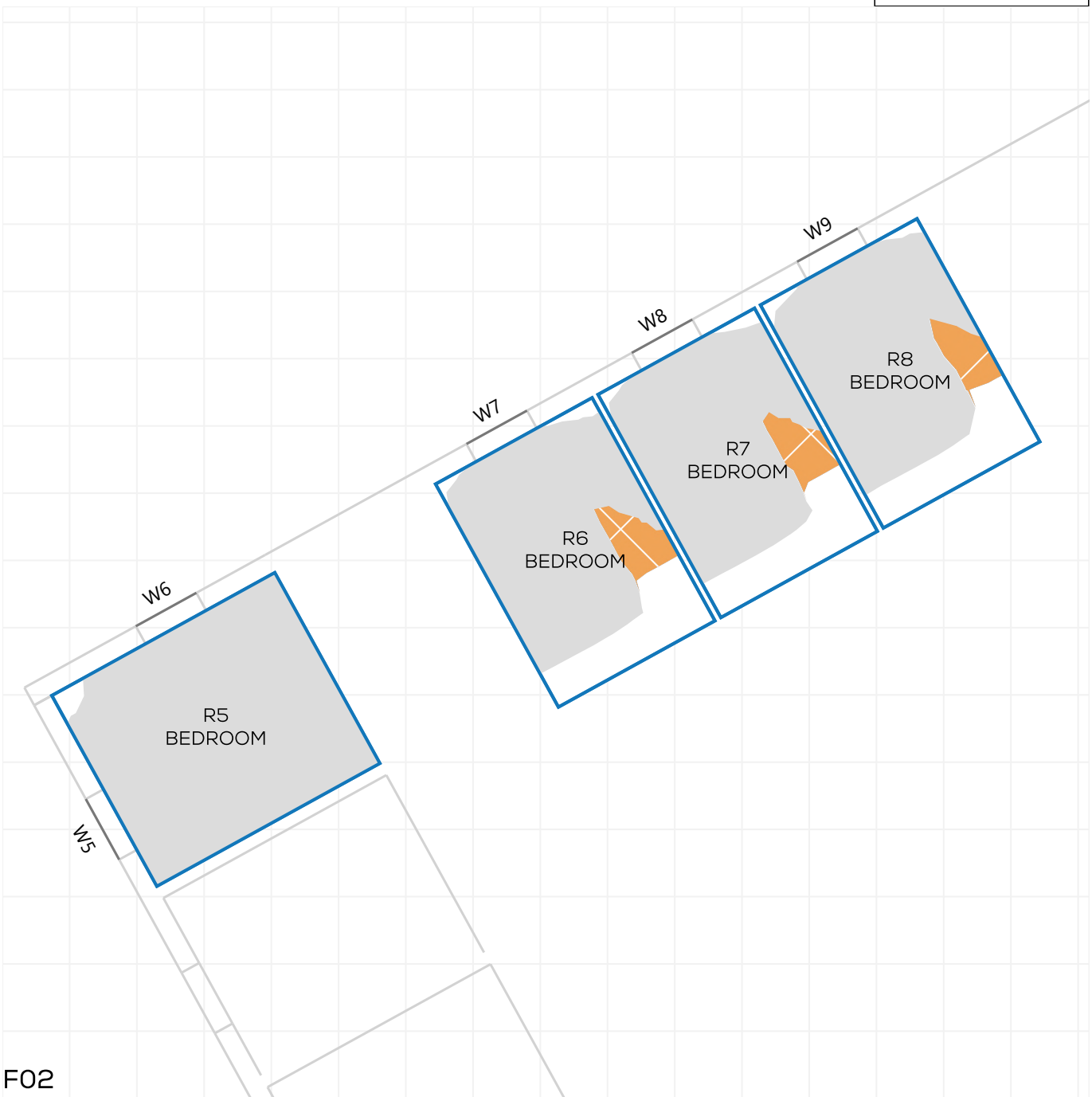
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F02	R1	RESIDENTIAL	BEDROOM	9.8	96.5	96	0.0	0.5
F02	R2	RESIDENTIAL	BEDROOM	9.8	95.7	95	0.1	0.7
F02	R3	RESIDENTIAL	BEDROOM	12.0	95.5	94.7	0.1	0.9
F02	R4	RESIDENTIAL	BEDROOM	11.4	97.6	96.7	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD640

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





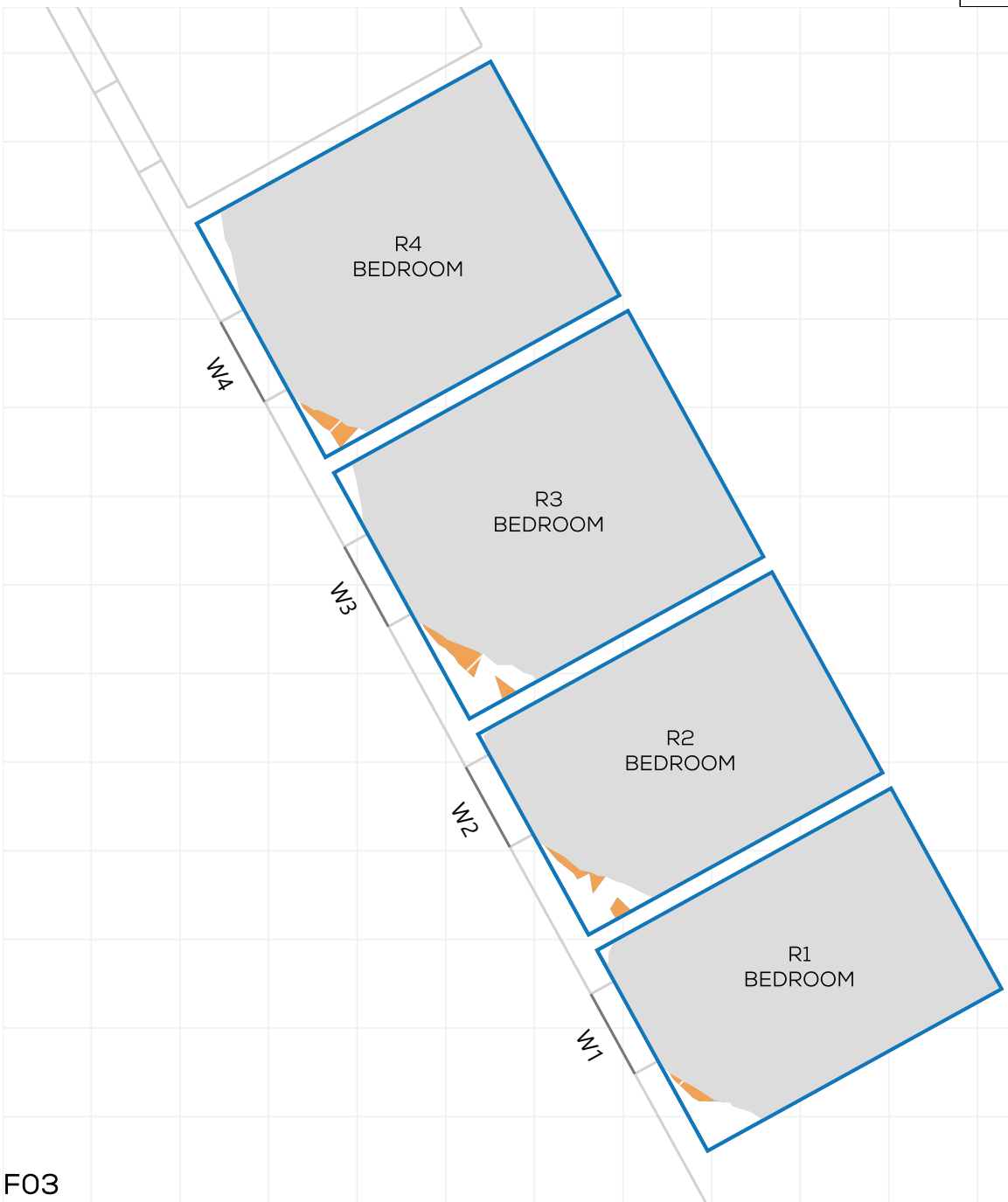
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F02	R5	RESIDENTIAL	BEDROOM	12.3	98.7	98.6	0.0	0
F02	R6	RESIDENTIAL	BEDROOM	10.1	78.8	71.9	0.7	8.8
F02	R7	RESIDENTIAL	BEDROOM	10.1	79.2	72.7	0.7	8.2
F02	R8	RESIDENTIAL	BEDROOM	10.1	79.4	73.4	0.6	7.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD641

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



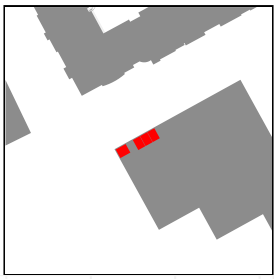
F03

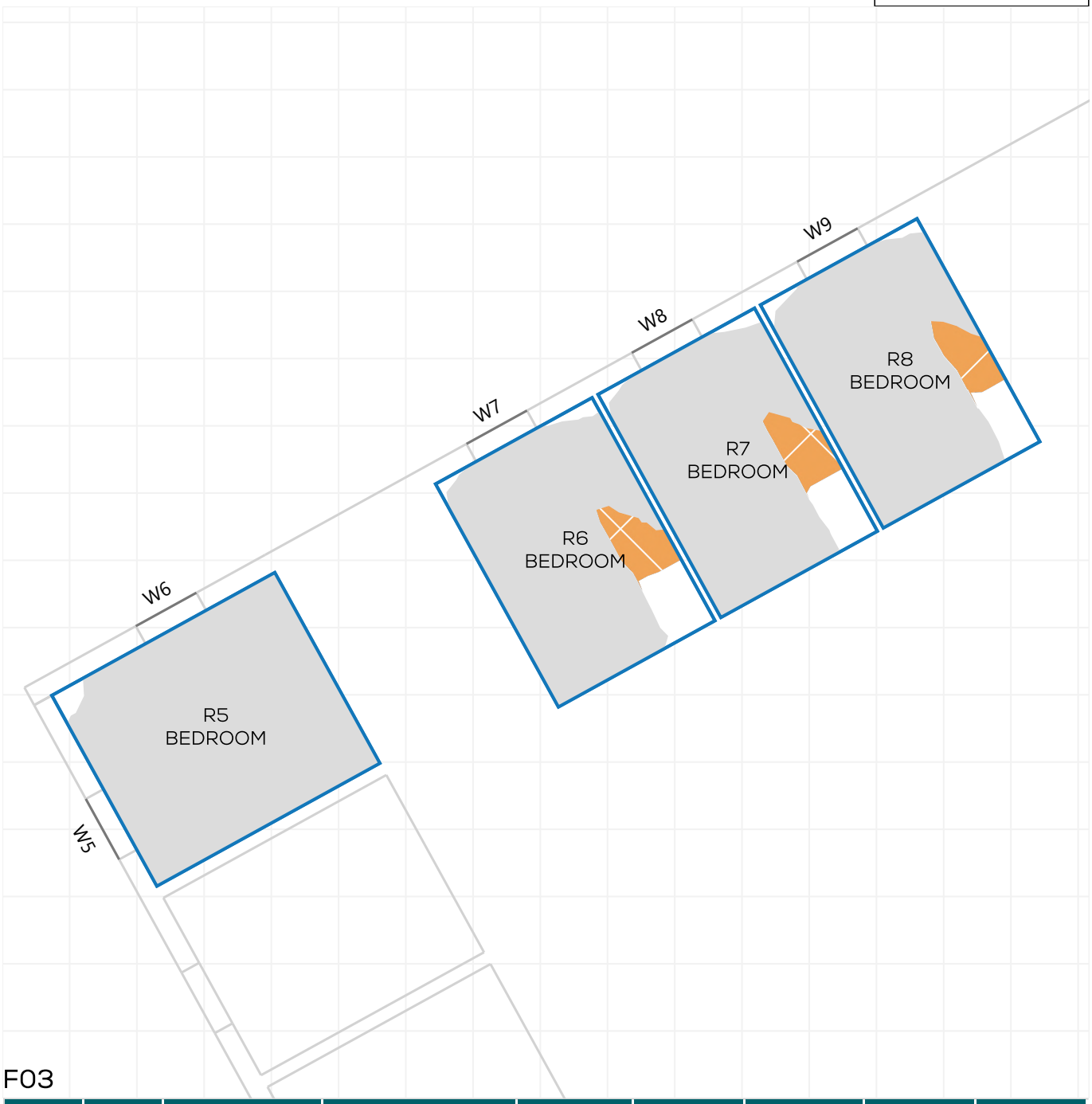
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F03	R1	RESIDENTIAL	BEDROOM	9.8	96.5	96.1	0.0	0.5
F03	R2	RESIDENTIAL	BEDROOM	9.8	95.9	95	0.1	1
F03	R3	RESIDENTIAL	BEDROOM	12.0	95.8	94.7	0.1	1.2
F03	R4	RESIDENTIAL	BEDROOM	11.4	97.6	96.8	0.1	0.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD642

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





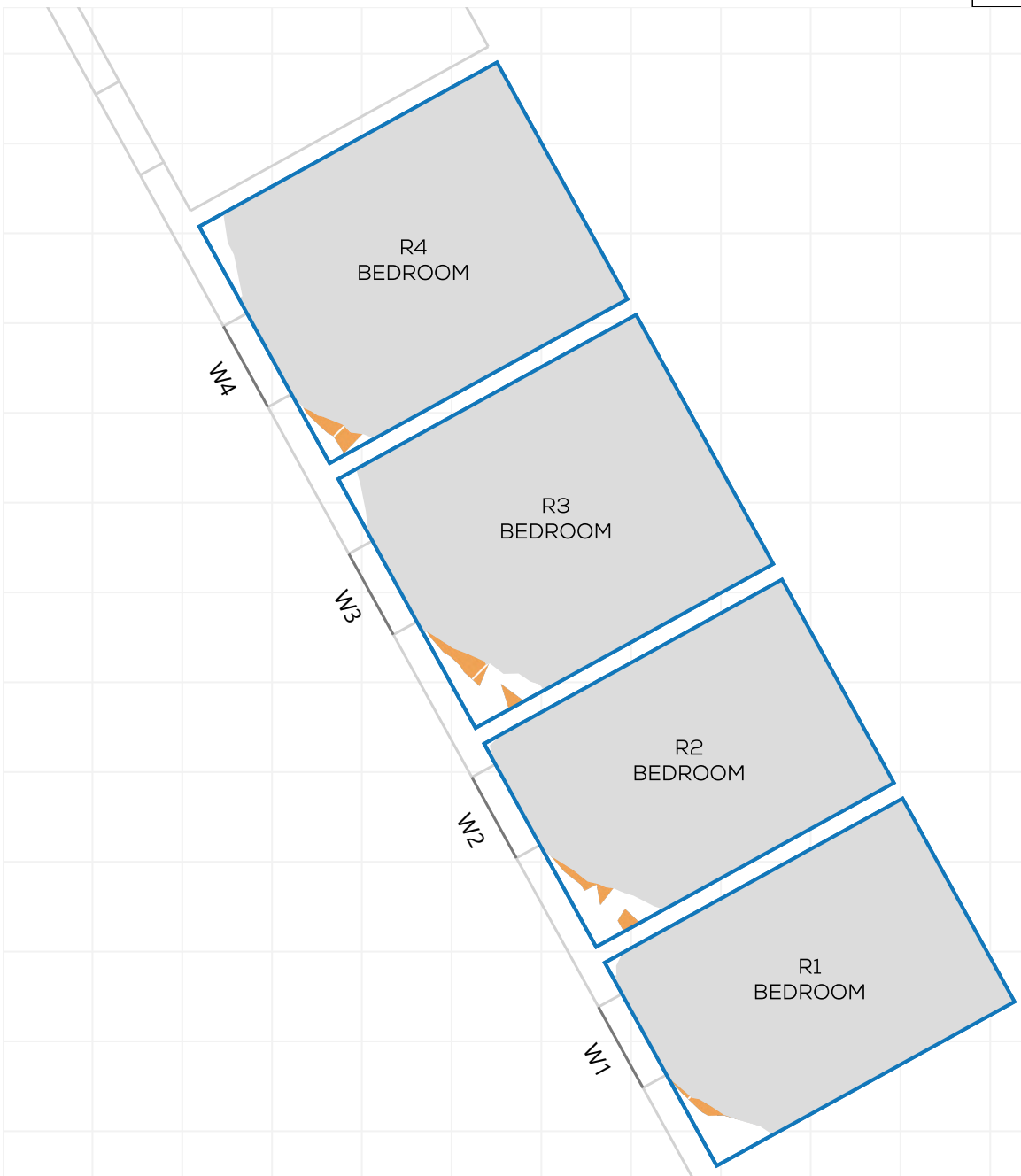
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F03	R5	RESIDENTIAL	BEDROOM	12.3	98.7	98.7	0.0	0
F03	R6	RESIDENTIAL	BEDROOM	10.1	90.4	83.1	0.7	8
F03	R7	RESIDENTIAL	BEDROOM	10.1	91.6	84.6	0.7	7.6
F03	R8	RESIDENTIAL	BEDROOM	10.1	92.4	86.1	0.6	6.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD643

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



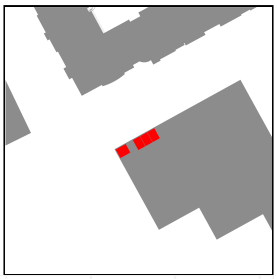
F04

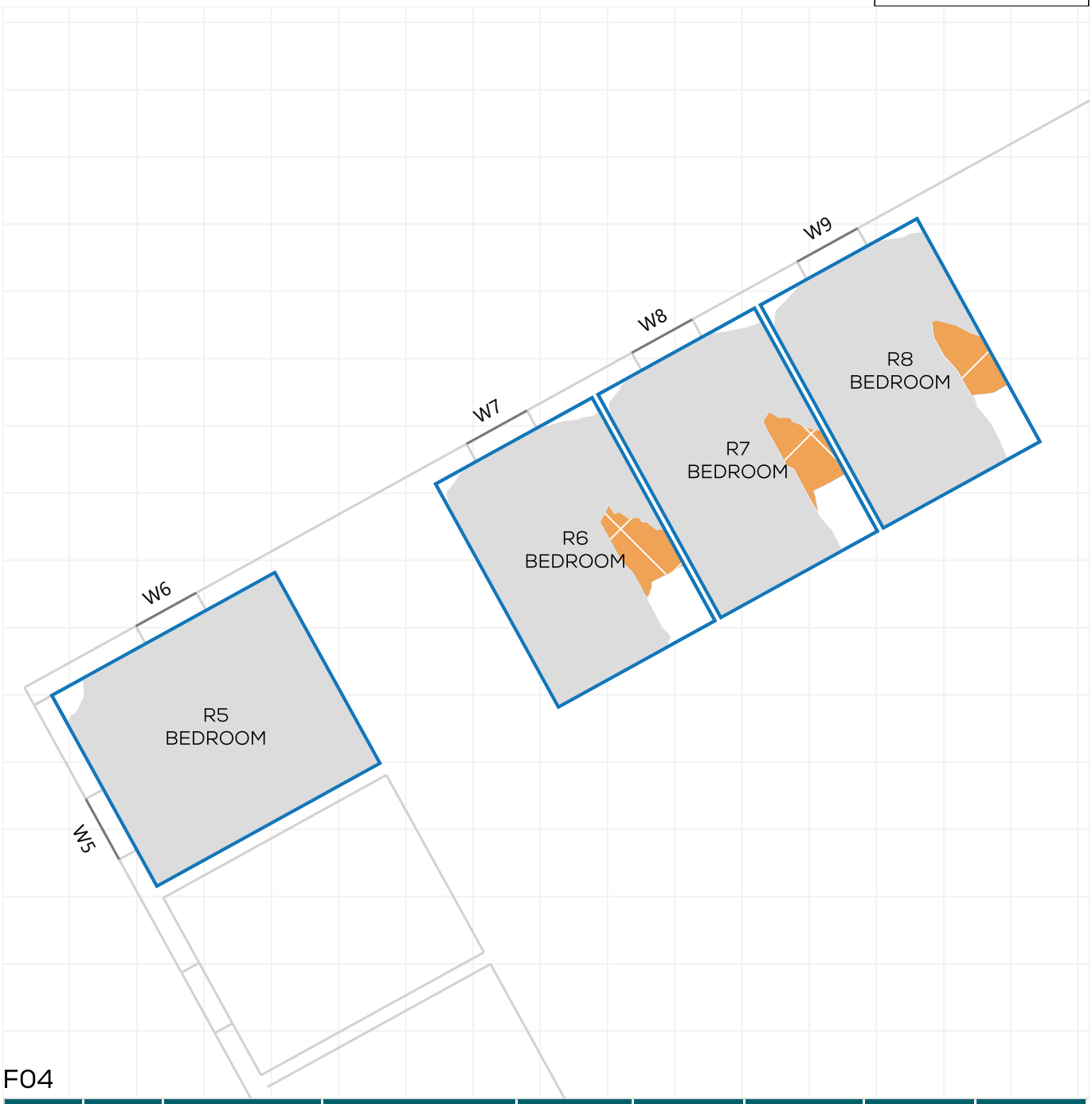
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F04	R1	RESIDENTIAL	BEDROOM	9.8	96.6	96.1	0.0	0.5
F04	R2	RESIDENTIAL	BEDROOM	9.8	96	95.1	0.1	0.9
F04	R3	RESIDENTIAL	BEDROOM	12.0	95.9	94.8	0.1	1.1
F04	R4	RESIDENTIAL	BEDROOM	11.4	97.6	96.8	0.1	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD644

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





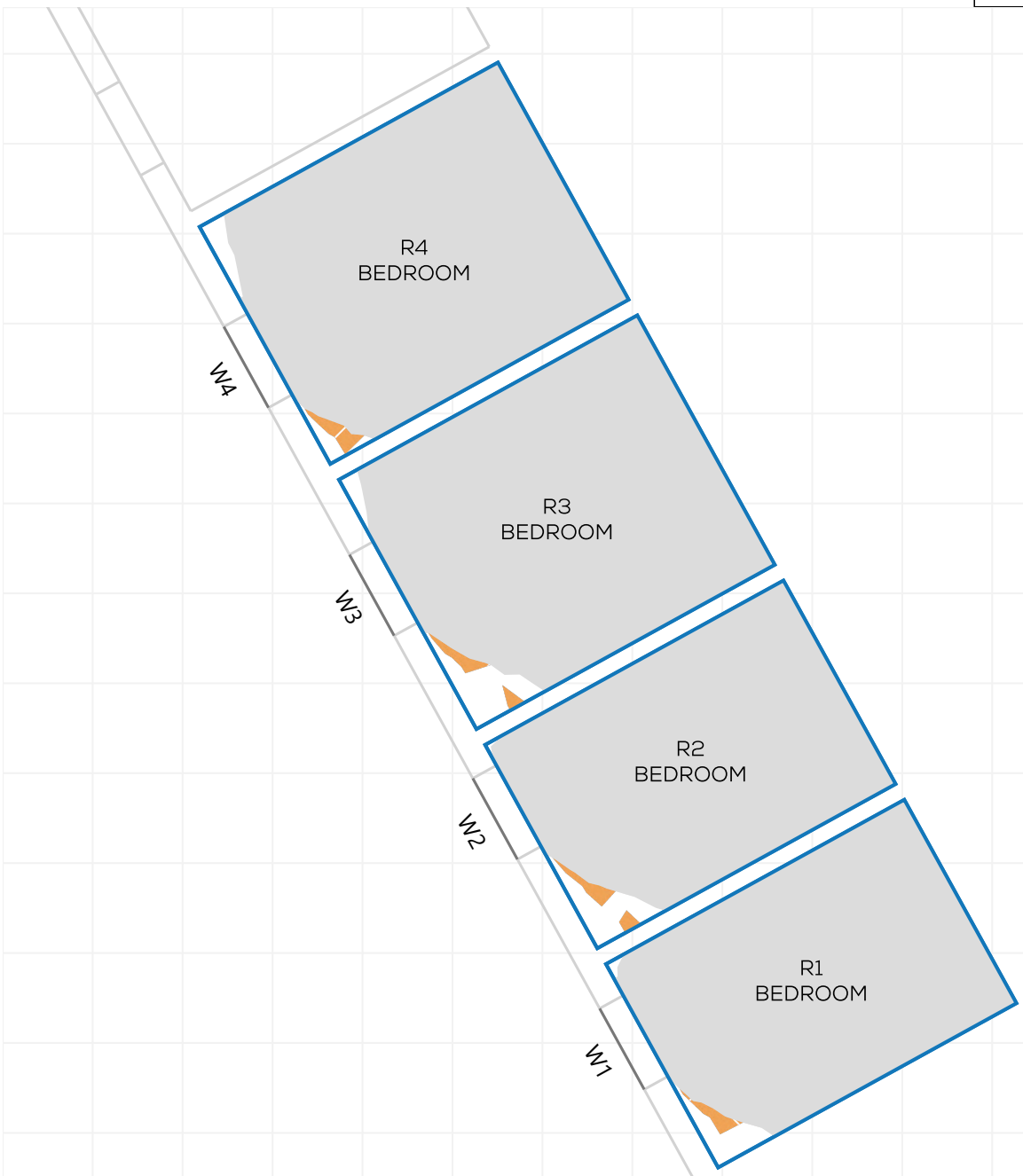
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F04	R5	RESIDENTIAL	BEDROOM	12.3	98.7	98.7	0.0	0
F04	R6	RESIDENTIAL	BEDROOM	10.1	91.4	83.7	0.8	8.4
F04	R7	RESIDENTIAL	BEDROOM	10.1	92.4	85	0.8	8.1
F04	R8	RESIDENTIAL	BEDROOM	10.1	92.9	86.3	0.7	7.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD645

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



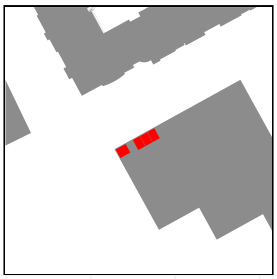
F05

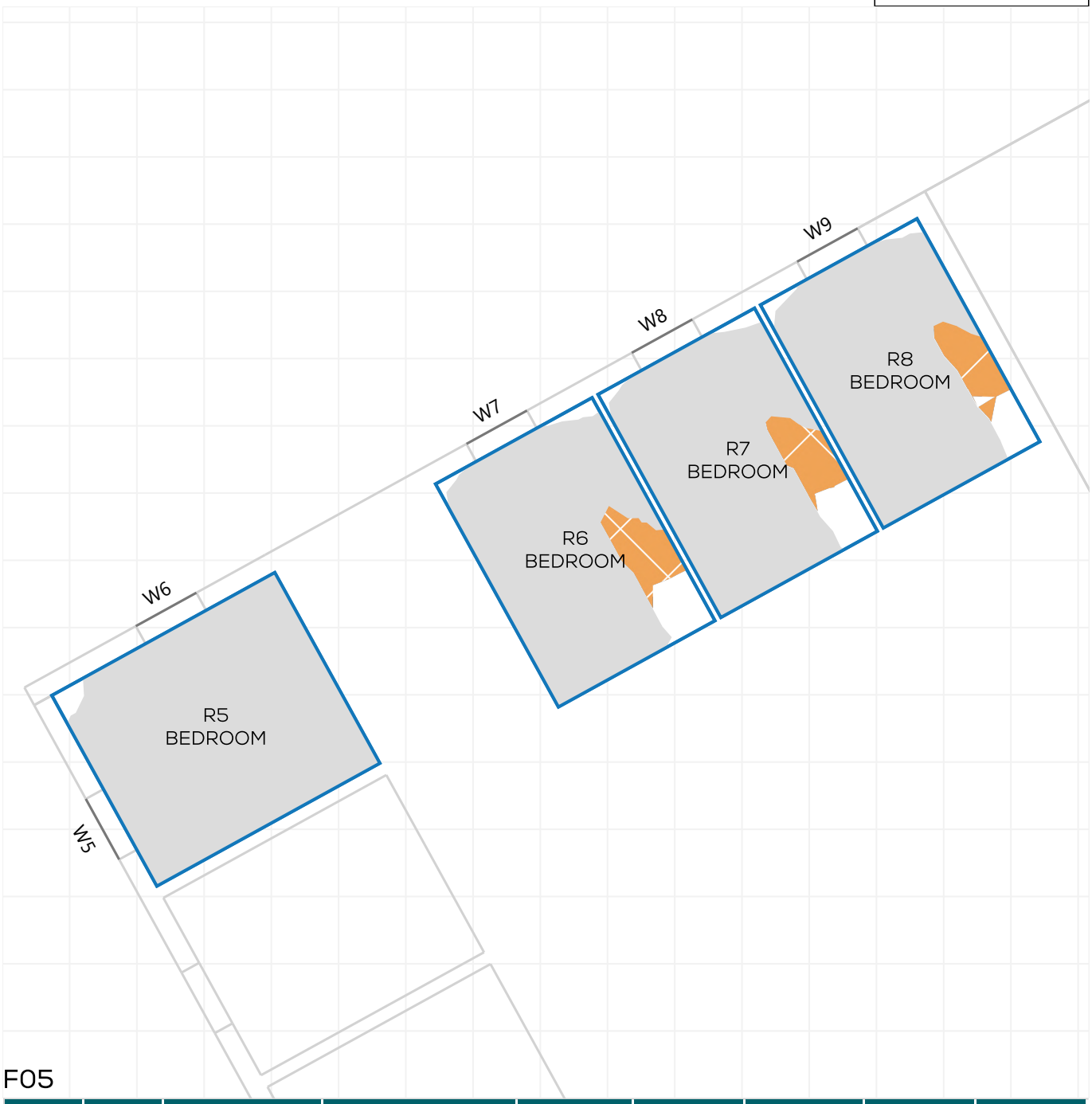
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F05	R1	RESIDENTIAL	BEDROOM	9.8	96.9	96.2	0.1	0.8
F05	R2	RESIDENTIAL	BEDROOM	9.8	96.2	95.1	0.1	1.1
F05	R3	RESIDENTIAL	BEDROOM	12.0	95.7	94.9	0.1	0.8
F05	R4	RESIDENTIAL	BEDROOM	11.4	97.6	96.8	0.1	0.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD646

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F05	R5	RESIDENTIAL	BEDROOM	12.3	98.7	98.7	0.0	0
F05	R6	RESIDENTIAL	BEDROOM	10.1	92.1	83.7	0.8	9.1
F05	R7	RESIDENTIAL	BEDROOM	10.1	92.9	85.1	0.8	8.4
F05	R8	RESIDENTIAL	BEDROOM	10.1	93.8	86.5	0.7	7.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD647

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F06	R1	RESIDENTIAL	BEDROOM	9.8	97	96.3	0.1	0.8
F06	R2	RESIDENTIAL	BEDROOM	9.8	96.3	95.2	0.1	1.1
F06	R3	RESIDENTIAL	BEDROOM	12.0	95.7	94.9	0.1	0.8
F06	R4	RESIDENTIAL	BEDROOM	11.4	97.5	96.8	0.1	0.7
F06	R5	RESIDENTIAL	BEDROOM	12.3	98.5	98.5	0.0	0
F06	R6	RESIDENTIAL	BEDROOM	10.1	92.7	83.8	0.9	9.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD648

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



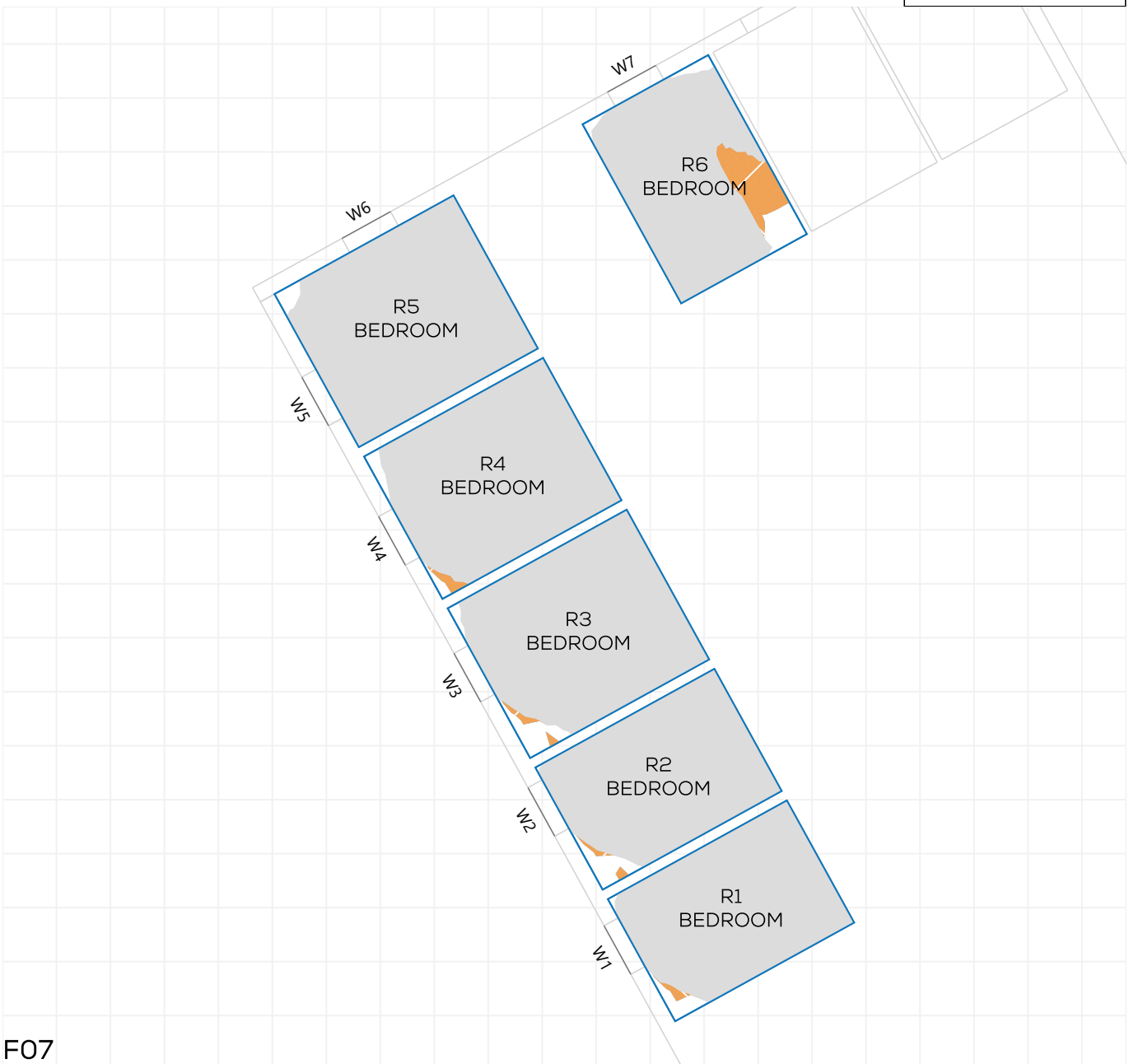
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F06	R7	RESIDENTIAL	BEDROOM	10.1	93.4	85.1	0.8	8.9
F06	R8	RESIDENTIAL	BEDROOM	10.1	93.9	86.6	0.7	7.7
F06	R9	RESIDENTIAL	BEDROOM	13.5	76.4	75.3	0.2	1.5
F06	R10	RESIDENTIAL	BEDROOM	10.3	77	77	0.0	0
F06	R11	RESIDENTIAL	BEDROOM	10.3	69.4	69.4	0.0	0
F06	R12	RESIDENTIAL	LD	32.6	65.2	59.8	1.7	8.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD649

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F07	R1	RESIDENTIAL	BEDROOM	9.8	97	96.3	0.1	0.7
F07	R2	RESIDENTIAL	BEDROOM	9.8	95.9	95.1	0.1	0.8
F07	R3	RESIDENTIAL	BEDROOM	12.0	95.7	95	0.1	0.8
F07	R4	RESIDENTIAL	BEDROOM	11.4	97.8	96.9	0.1	0.9
F07	R5	RESIDENTIAL	BEDROOM	12.3	98.7	98.7	0.0	0
F07	R6	RESIDENTIAL	BEDROOM	10.1	93.7	83.8	1.0	10.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD650

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F07

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F07	R7	RESIDENTIAL	BEDROOM	10.1	93.9	85.3	0.9	9.1
F07	R8	RESIDENTIAL	BEDROOM	10.1	94.6	86.8	0.8	8.3
F07	R9	RESIDENTIAL	BEDROOM	13.5	86.5	85.5	0.1	1.3
F07	R10	RESIDENTIAL	BEDROOM	10.3	86.5	86.5	0.0	0
F07	R11	RESIDENTIAL	BEDROOM	10.3	82.1	82.1	0.0	0
F07	R12	RESIDENTIAL	LD	32.6	66.8	65.2	0.5	2.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD651

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F08	R1	RESIDENTIAL	BEDROOM	9.8	97	96.4	0.1	0.7
F08	R2	RESIDENTIAL	BEDROOM	9.8	95.9	95.1	0.1	0.8
F08	R3	RESIDENTIAL	BEDROOM	12.0	95.7	94.9	0.1	0.8
F08	R4	RESIDENTIAL	BEDROOM	11.4	97.8	96.9	0.1	0.9
F08	R5	RESIDENTIAL	BEDROOM	12.3	98.7	98.7	0.0	0
F08	R6	RESIDENTIAL	BEDROOM	10.1	94.1	83.8	1.0	10.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD652

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F08	R7	RESIDENTIAL	BEDROOM	10.1	94.4	85.4	0.9	9.5
F08	R8	RESIDENTIAL	BEDROOM	10.1	95.5	87	0.9	8.9
F08	R9	RESIDENTIAL	BEDROOM	13.5	97.1	96	0.1	1.1
F08	R10	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F08	R11	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F08	R12	RESIDENTIAL	LD	32.6	80.4	80.4	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD653

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F09	R1	RESIDENTIAL	BEDROOM	9.8	97	96.4	0.1	0.7
F09	R2	RESIDENTIAL	BEDROOM	9.8	96	95.2	0.1	0.8
F09	R3	RESIDENTIAL	BEDROOM	12.0	95.8	95	0.1	0.8
F09	R4	RESIDENTIAL	BEDROOM	11.4	97.8	96.9	0.1	0.9
F09	R5	RESIDENTIAL	BEDROOM	12.3	98.7	98.7	0.0	0
F09	R6	RESIDENTIAL	BEDROOM	10.1	94.6	84.4	1.0	10.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD654

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



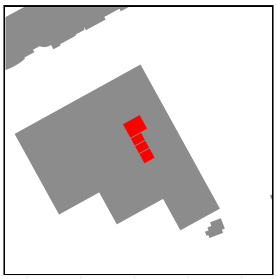
F09

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F09	R7	RESIDENTIAL	BEDROOM	10.1	94.9	85.7	0.9	9.6
F09	R8	RESIDENTIAL	BEDROOM	10.1	96	87.3	0.9	9.1
F09	R9	RESIDENTIAL	BEDROOM	13.5	97.1	96.1	0.1	1.1
F09	R10	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F09	R11	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F09	R12	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD655

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





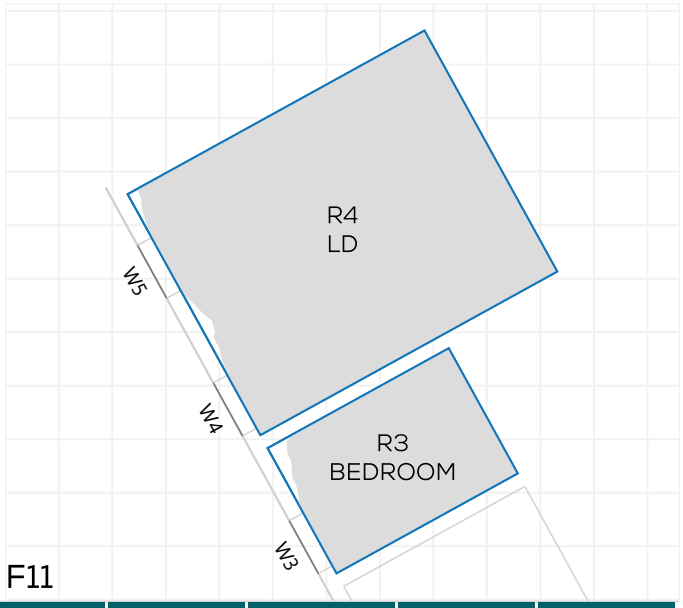
F10



F10



F11



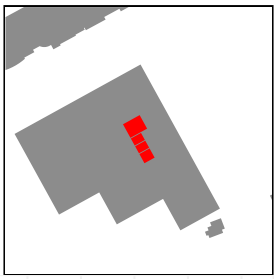
F11

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F10	R1	RESIDENTIAL	BEDROOM	13.5	97.2	96.1	0.1	1.1
F10	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F10	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F10	R4	RESIDENTIAL	LD	32.6	99.1	99.1	0.0	0
F11	R1	RESIDENTIAL	BEDROOM	13.5	97.3	96.2	0.1	1.1
F11	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F11	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F11	R4	RESIDENTIAL	LD	32.6	99.1	99.1	0.0	0

NSL CONTOURS

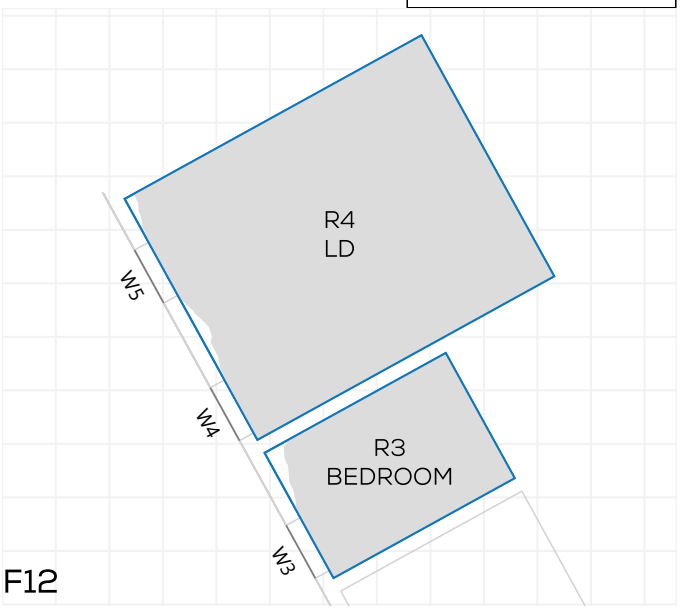
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD656

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F12



F12



F13



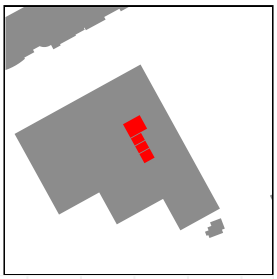
F13

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F12	R1	RESIDENTIAL	BEDROOM	13.5	97.2	96.2	0.1	1
F12	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F12	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F12	R4	RESIDENTIAL	LD	32.6	99.1	99.1	0.0	0
F13	R1	RESIDENTIAL	BEDROOM	13.5	97.3	96.4	0.1	0.9
F13	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F13	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F13	R4	RESIDENTIAL	LD	32.6	99.1	99.1	0.0	0

NSL CONTOURS

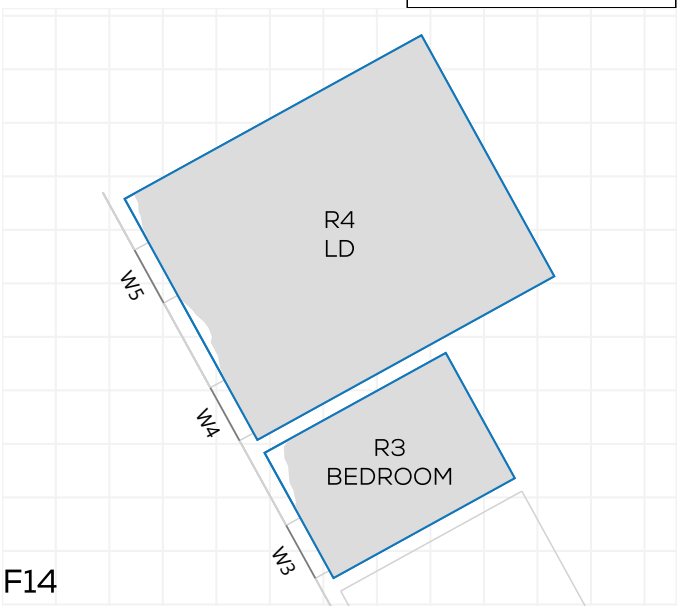
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD657

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F14



F14



F15



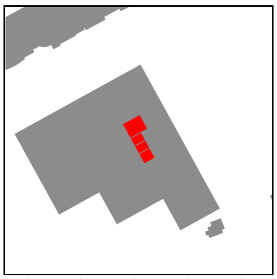
F15

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F14	R1	RESIDENTIAL	BEDROOM	13.5	97.2	96.5	0.1	0.8
F14	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F14	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F14	R4	RESIDENTIAL	LD	32.6	99.1	99.1	0.0	0
F15	R1	RESIDENTIAL	BEDROOM	13.5	97.2	96.8	0.1	0.4
F15	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F15	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F15	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

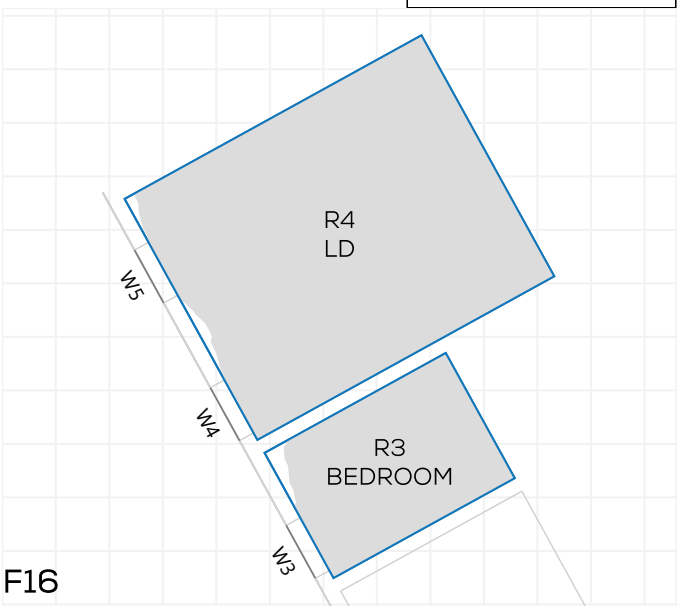
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD658

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

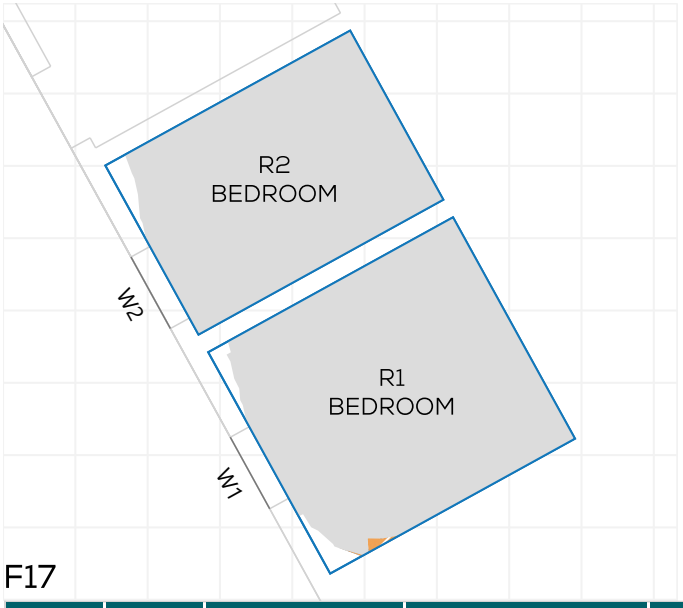




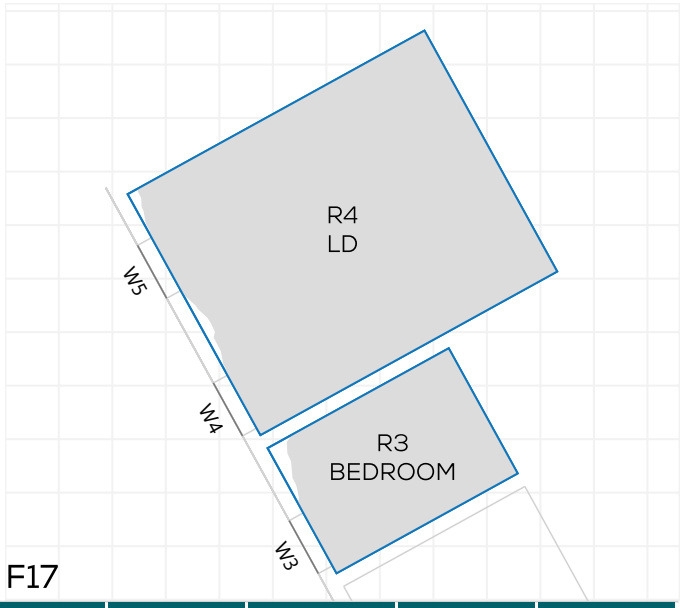
F16



F16



F17



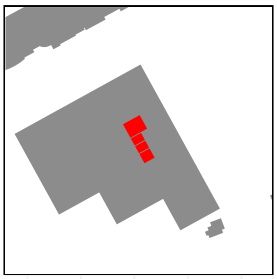
F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F16	R1	RESIDENTIAL	BEDROOM	13.5	97.3	96.9	0.0	0.3
F16	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F16	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F16	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0
F17	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.1	0.0	0.3
F17	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F17	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F17	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

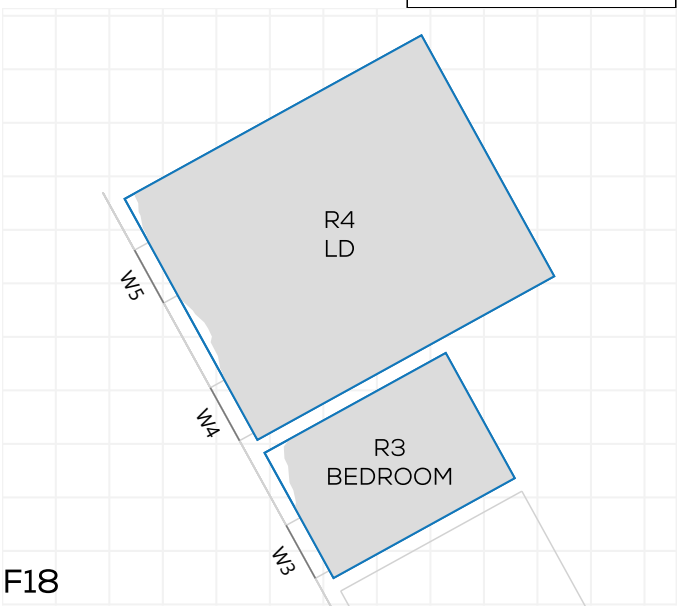
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD659

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F18



F18



F19



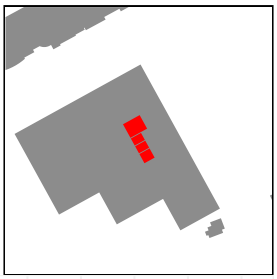
F19

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F18	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.1	0.0	0.3
F18	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F18	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F18	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0
F19	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F19	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F19	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F19	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD660

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F20



F20



F21



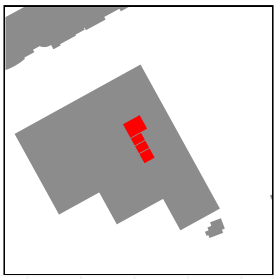
F21

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F20	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F20	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F20	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F20	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0
F21	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F21	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F21	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F21	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

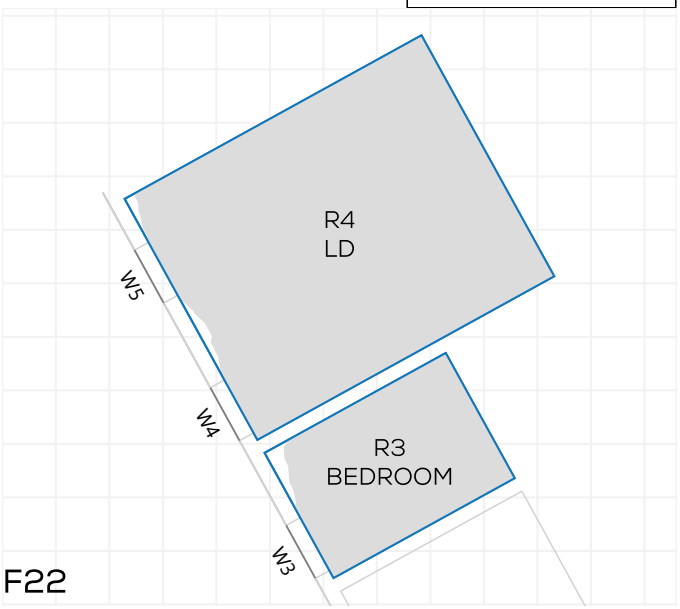
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD661

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





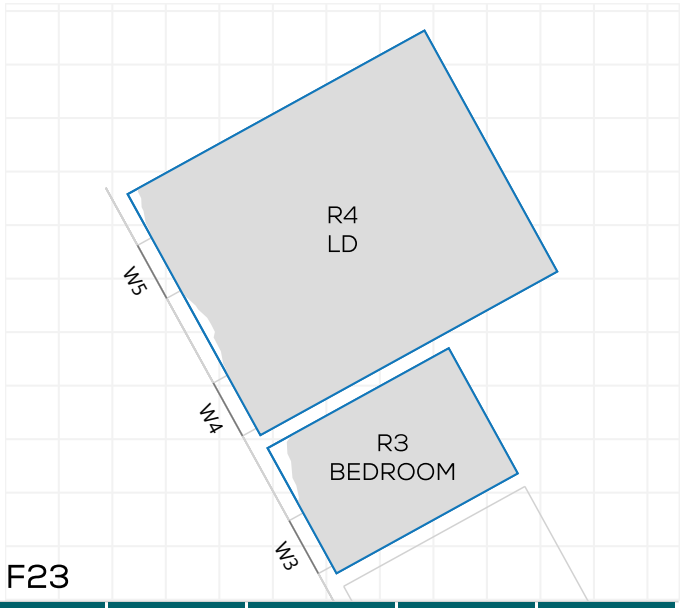
F22



F22



F23



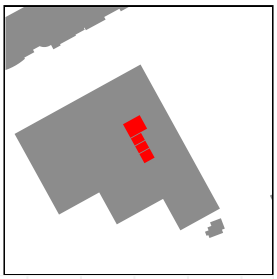
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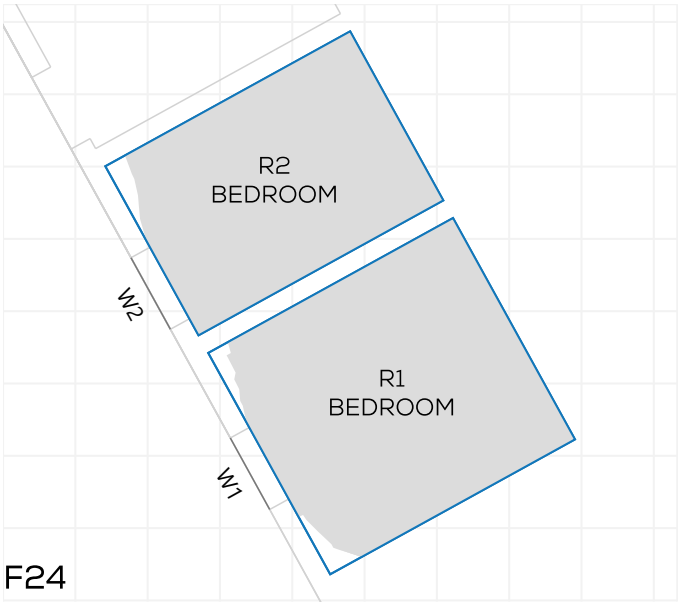
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F22	R1	RESIDENTIAL	BEDROOM	13.5	97.5	97.5	0.0	0
F22	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F22	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F22	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0
F23	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F23	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F23	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F23	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

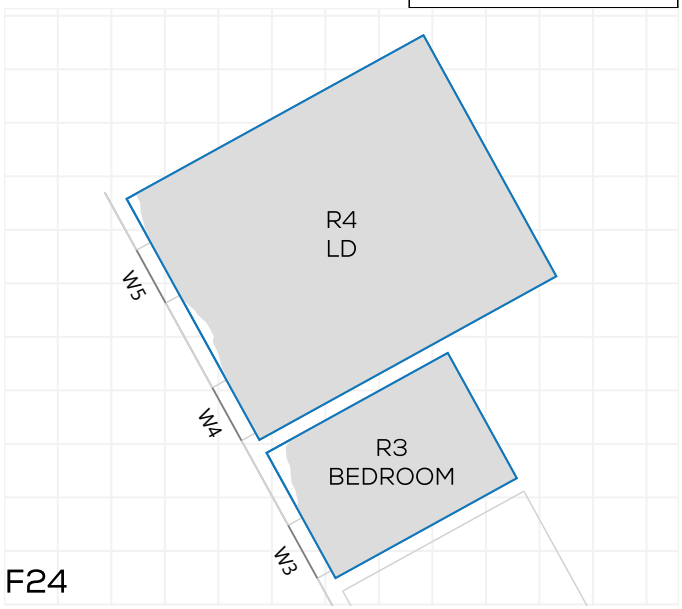
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD662

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F24



F24



F25



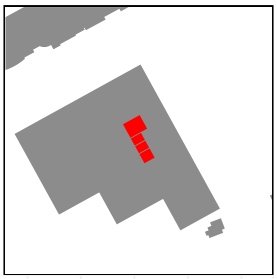
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F24	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F24	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F24	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F24	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0
F25	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F25	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F25	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F25	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD663

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

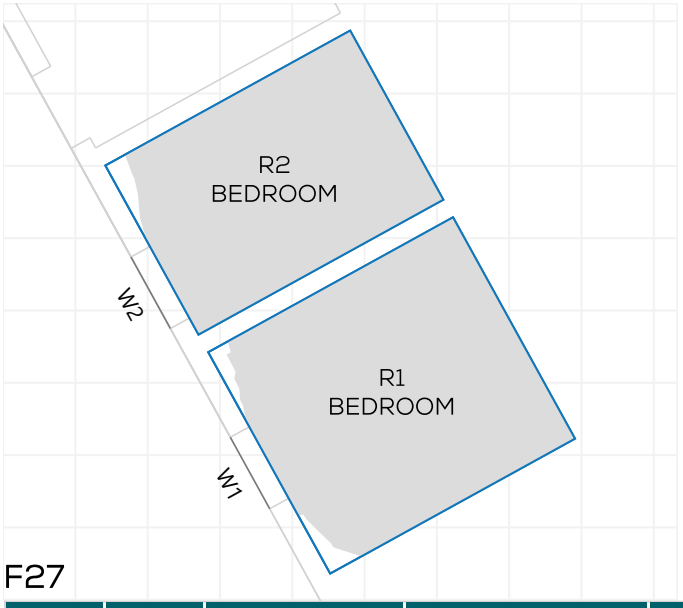




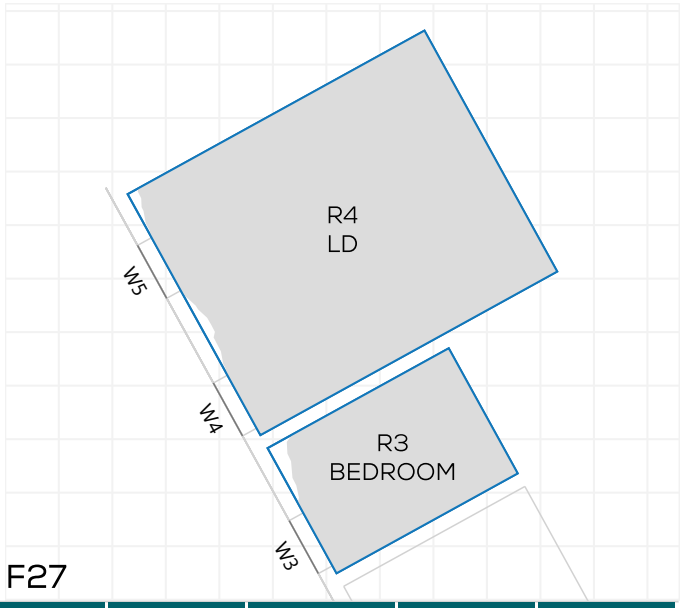
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F26



F27



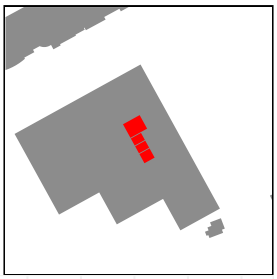
F27

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F26	R1	RESIDENTIAL	BEDROOM	13.5	97.5	97.5	0.0	0
F26	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F26	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F26	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0
F27	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F27	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F27	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F27	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

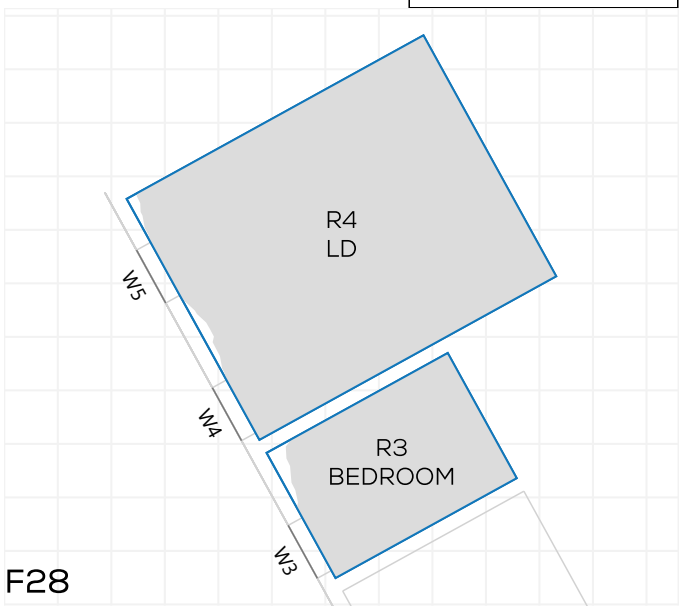
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD664

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





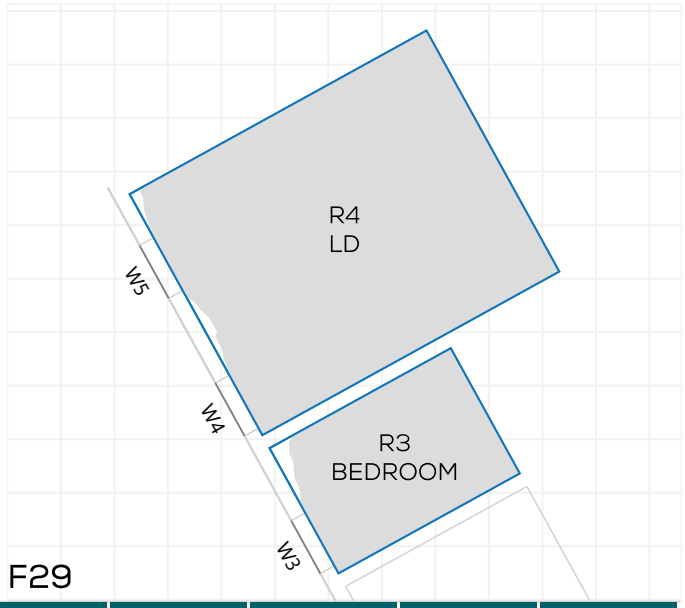
F28



F28



F29



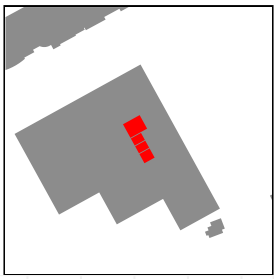
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FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F28	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F28	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F28	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F28	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0
F29	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F29	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F29	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F29	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD665

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F30



F30



F31



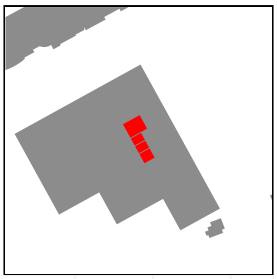
F31

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F30	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F30	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F30	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F30	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0
F31	R1	RESIDENTIAL	BEDROOM	13.5	97.4	97.4	0.0	0
F31	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F31	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F31	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: RIVER STREET TOWER
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD666

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





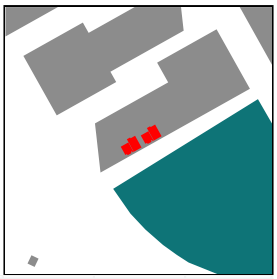
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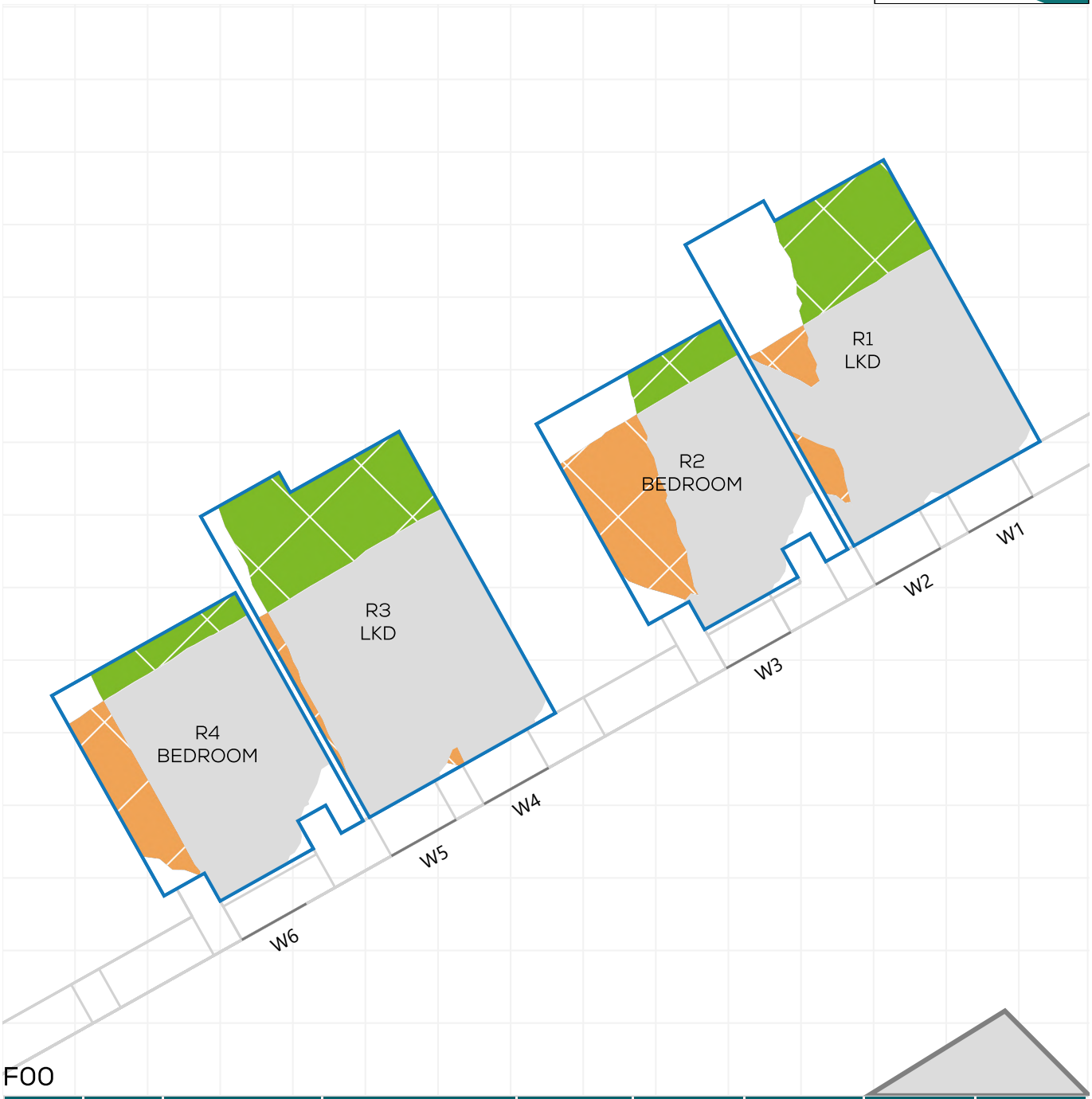
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
RIVER STREET TOWER								
F32	R1	RESIDENTIAL	BEDROOM	13.5	97.5	97.5	0.0	0
F32	R2	RESIDENTIAL	BEDROOM	10.3	98	98	0.0	0
F32	R3	RESIDENTIAL	BEDROOM	10.3	97.6	97.6	0.0	0
F32	R4	RESIDENTIAL	LD	32.6	99.2	99.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD667

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





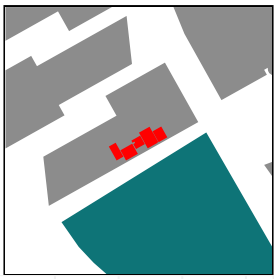
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F00	R1	RESIDENTIAL	LKD	13.5	65.3	79.5	-1.9	-21.7
F00	R2	RESIDENTIAL	BEDROOM	10.0	77.1	61.1	1.6	20.8
F00	R3	RESIDENTIAL	LKD	13.5	69.3	94.6	-3.4	-36.6
F00	R4	RESIDENTIAL	BEDROOM	10.0	82.7	77.2	0.6	6.7

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD668

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F01	R1	RESIDENTIAL	BEDROOM	13.7	97.4	75.9	2.9	22.1
F01	R2	RESIDENTIAL	LKD	24.2	97.9	86.9	2.7	11.2
F01	R3	RESIDENTIAL	BEDROOM	10.5	20.9	11	1.0	47.3
F01	R4	RESIDENTIAL	LKD	17.4	96.1	90.2	1.0	6.1
F01	R5	RESIDENTIAL	BEDROOM	13.8	44.2	5.7	5.3	87.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD669

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F01	R6	RESIDENTIAL	LKD	29.0	96.2	76.4	5.7	20.6
F01	R7	RESIDENTIAL	BEDROOM	9.1	65.5	46.1	1.8	29.7
F01	R8	RESIDENTIAL	LKD	29.7	97	71	7.7	26.7
F01	R9	RESIDENTIAL	BEDROOM	9.1	89.5	89.5	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD670

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





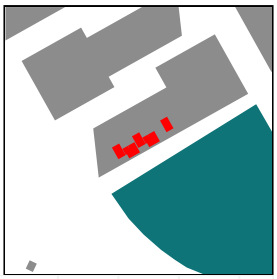
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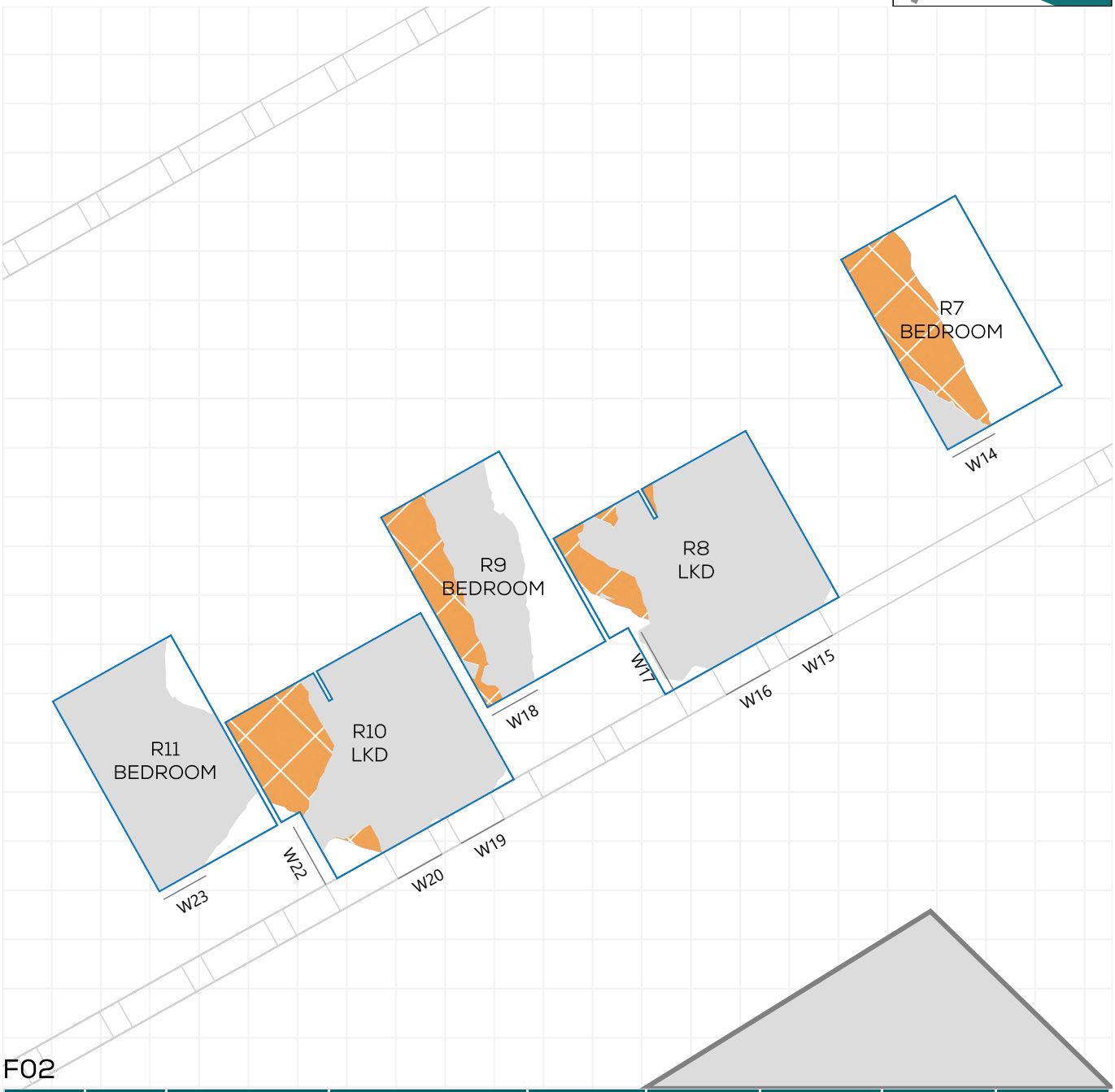
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F02	R1	RESIDENTIAL	LKD	22.1	96.8	86	2.4	11.2
F02	R2	RESIDENTIAL	BEDROOM	13.5	97.2	81.8	2.1	15.9
F02	R3	RESIDENTIAL	BEDROOM	13.5	97.8	75.7	3.0	22.7
F02	R4	RESIDENTIAL	LKD	24.3	98.4	87.1	2.8	11.5
F02	R5	RESIDENTIAL	BEDROOM	9.9	18.5	9.5	0.9	48.3
F02	R6	RESIDENTIAL	LKD	17.4	96	89.5	1.1	6.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD671

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





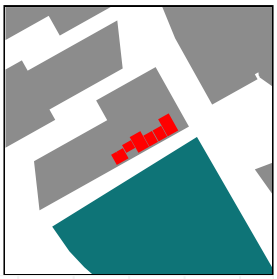
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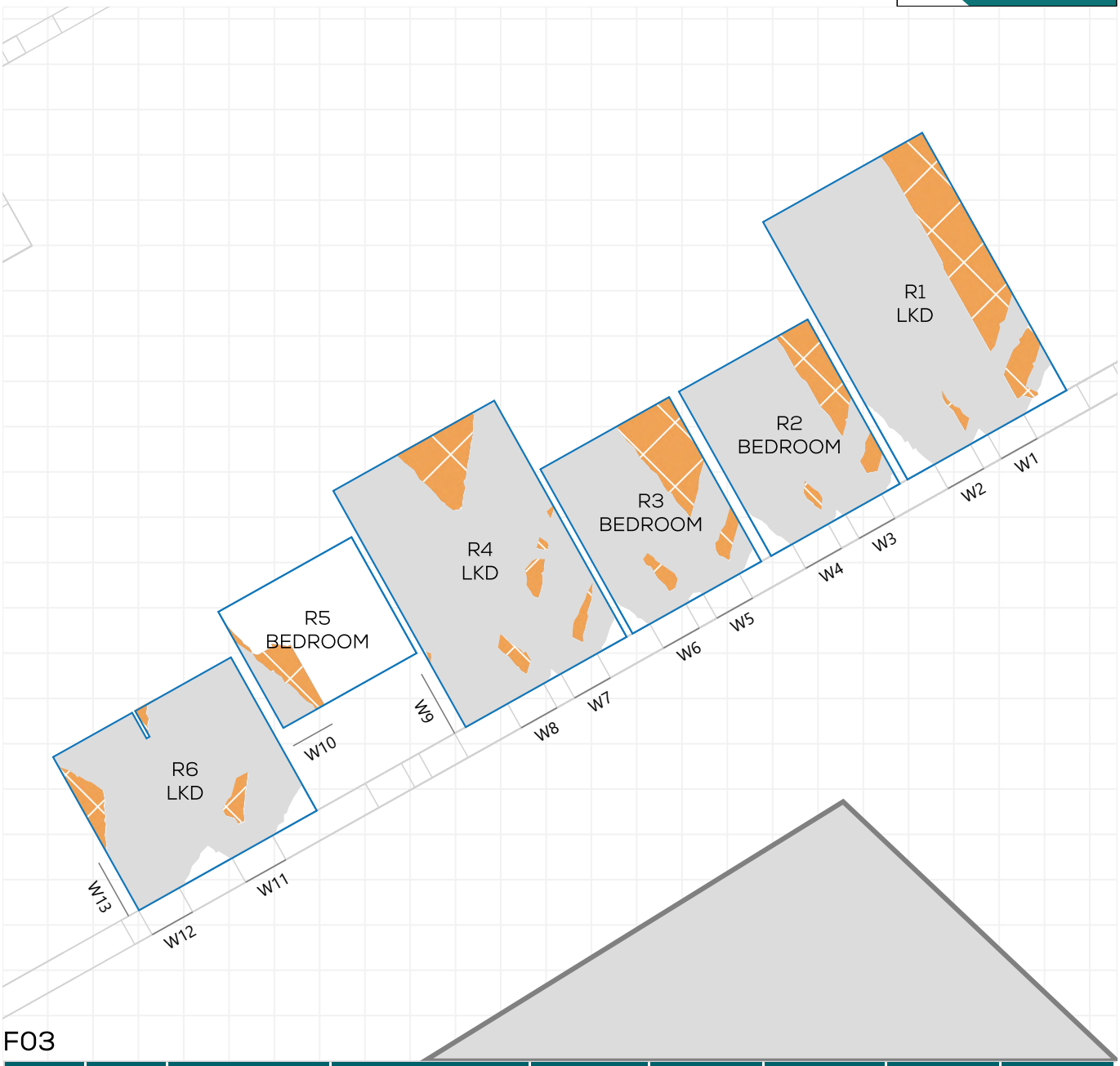
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F02	R7	RESIDENTIAL	BEDROOM	11.8	43.3	6.7	4.3	84.5
F02	R8	RESIDENTIAL	LKD	16.6	94.5	85.5	1.5	9.6
F02	R9	RESIDENTIAL	BEDROOM	12.2	69.2	46.1	2.8	33.3
F02	R10	RESIDENTIAL	LKD	16.9	96.1	74.2	3.7	22.8
F02	R11	RESIDENTIAL	BEDROOM	12.2	88.6	88.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD672

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





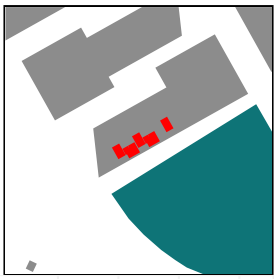
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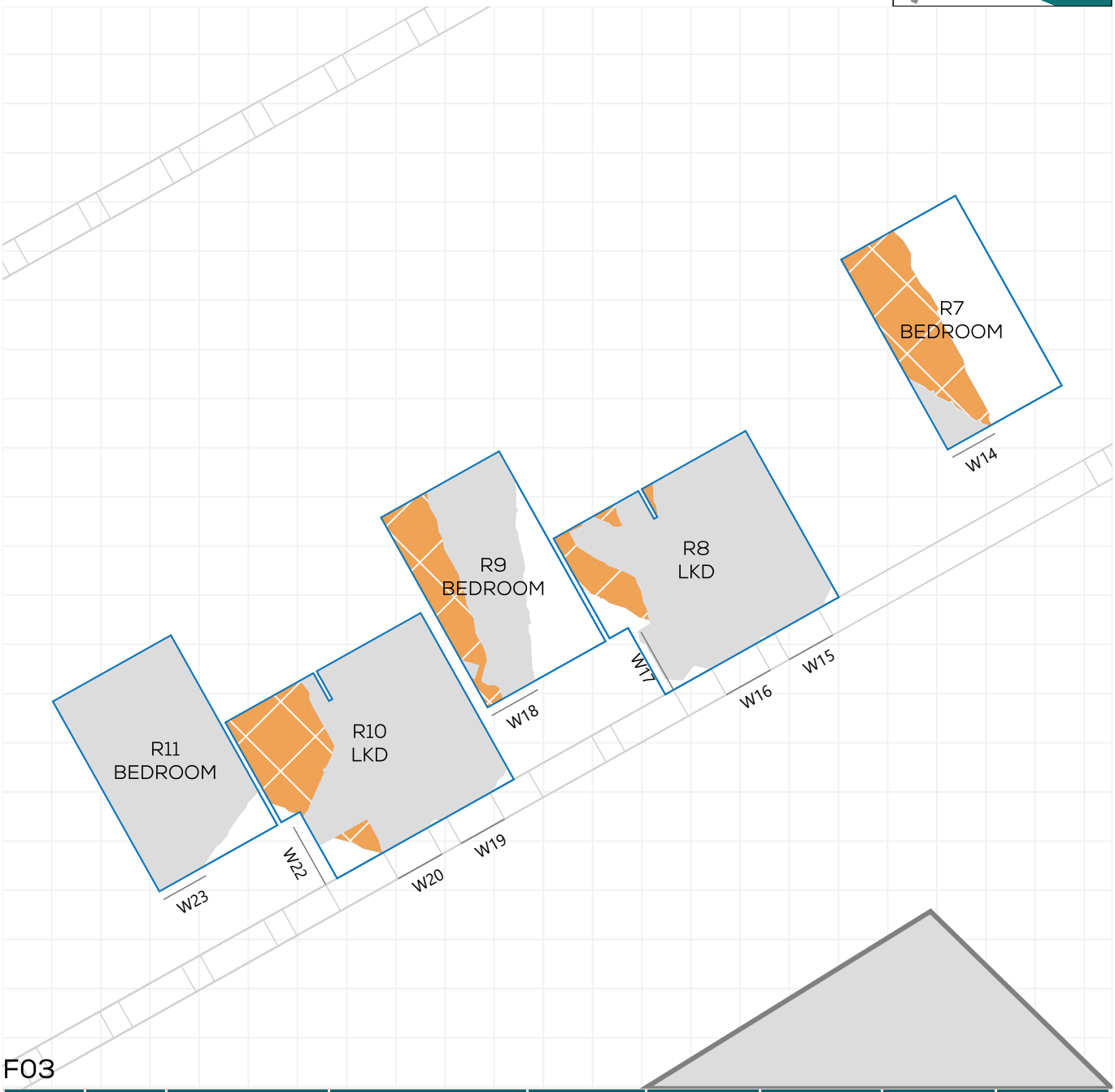
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F03	R1	RESIDENTIAL	LKD	26.2	96	74.9	5.6	22.1
F03	R2	RESIDENTIAL	BEDROOM	13.5	97.3	81.9	2.1	15.9
F03	R3	RESIDENTIAL	BEDROOM	13.5	97.9	75.7	3.0	22.7
F03	R4	RESIDENTIAL	LKD	24.3	99.2	87.9	2.7	11.4
F03	R5	RESIDENTIAL	BEDROOM	9.9	18.5	9.6	0.9	47.9
F03	R6	RESIDENTIAL	LKD	17.4	96	89.5	1.1	6.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD673

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





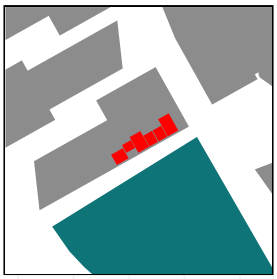
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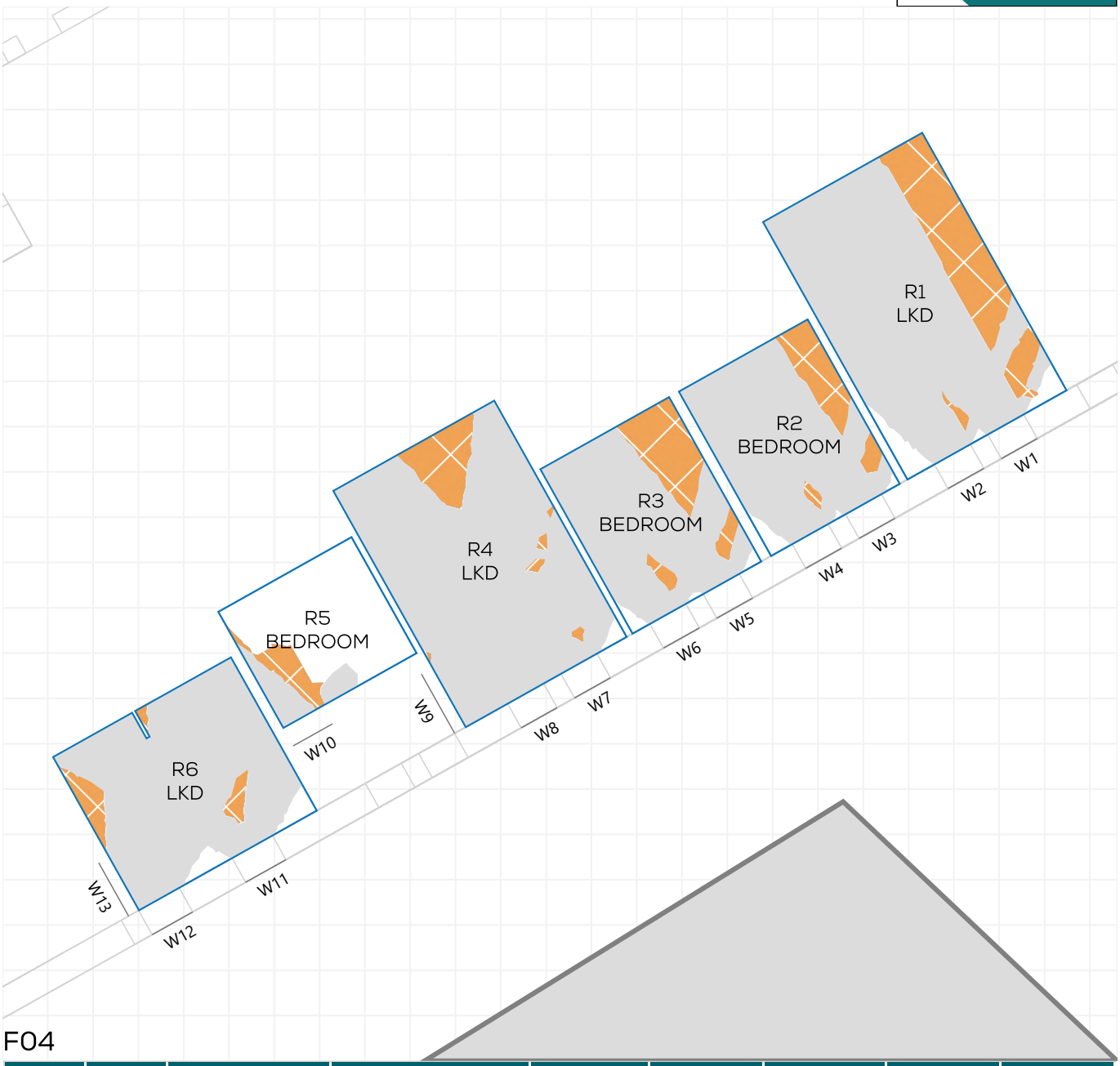
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F03	R7	RESIDENTIAL	BEDROOM	11.8	43.3	6.7	4.3	84.5
F03	R8	RESIDENTIAL	LKD	16.6	94.5	85.7	1.5	9.3
F03	R9	RESIDENTIAL	BEDROOM	12.2	74.1	50.3	2.9	32.2
F03	R10	RESIDENTIAL	LKD	16.9	96	73.4	3.8	23.5
F03	R11	RESIDENTIAL	BEDROOM	12.2	94.3	94.3	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD674

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





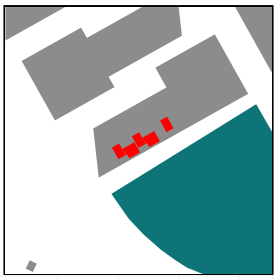
F04

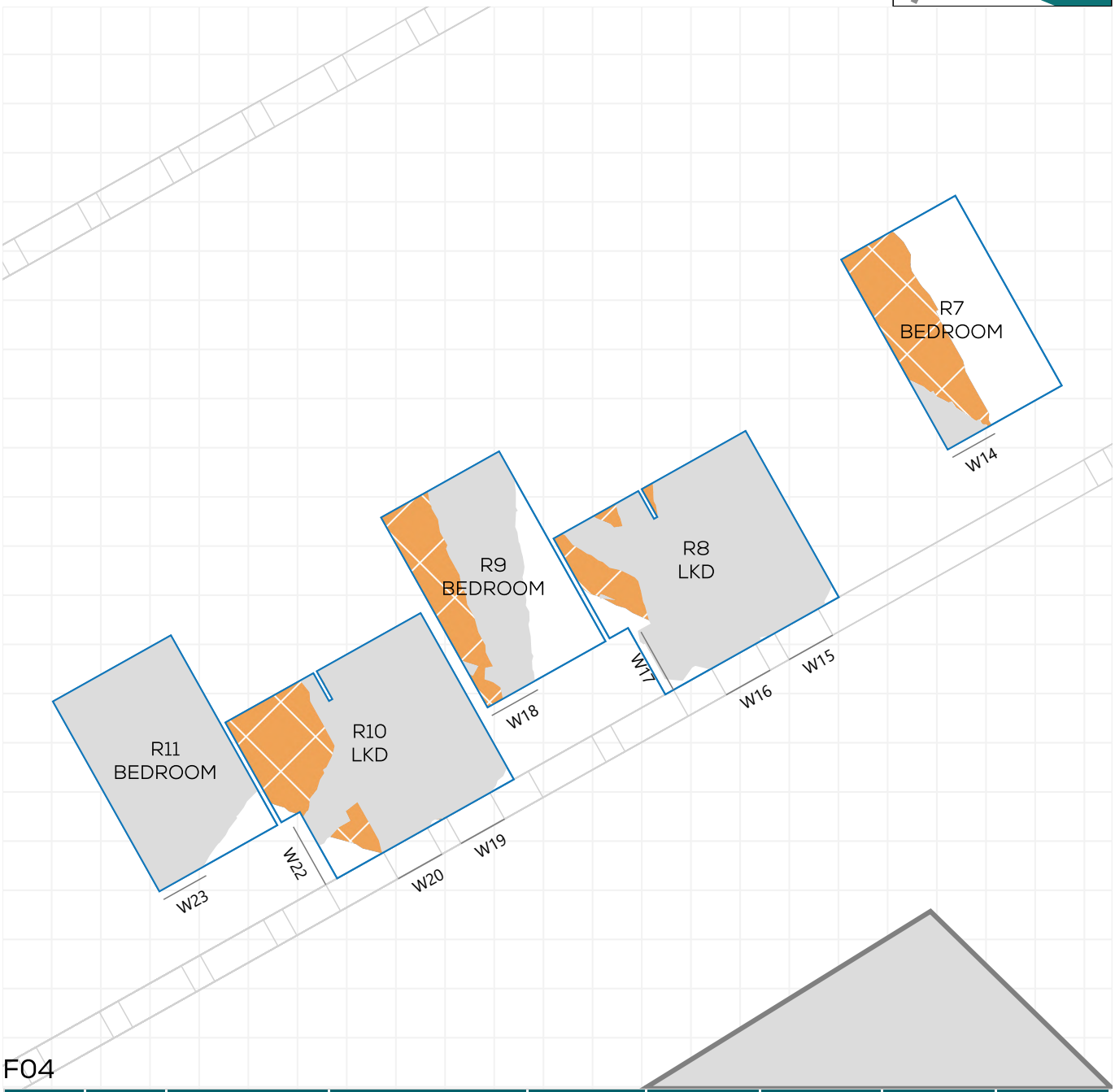
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F04	R1	RESIDENTIAL	LKD	26.2	96	74.6	5.6	22.3
F04	R2	RESIDENTIAL	BEDROOM	13.5	97.3	81.6	2.1	16.1
F04	R3	RESIDENTIAL	BEDROOM	13.5	97.9	75.7	3.0	22.7
F04	R4	RESIDENTIAL	LKD	24.3	99.3	90.5	2.1	8.8
F04	R5	RESIDENTIAL	BEDROOM	9.9	23.2	14	0.9	39.8
F04	R6	RESIDENTIAL	LKD	17.4	96	89.4	1.2	6.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD675

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





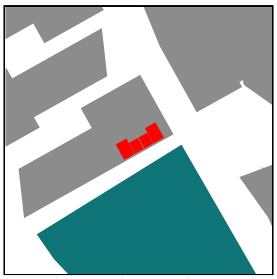
F04

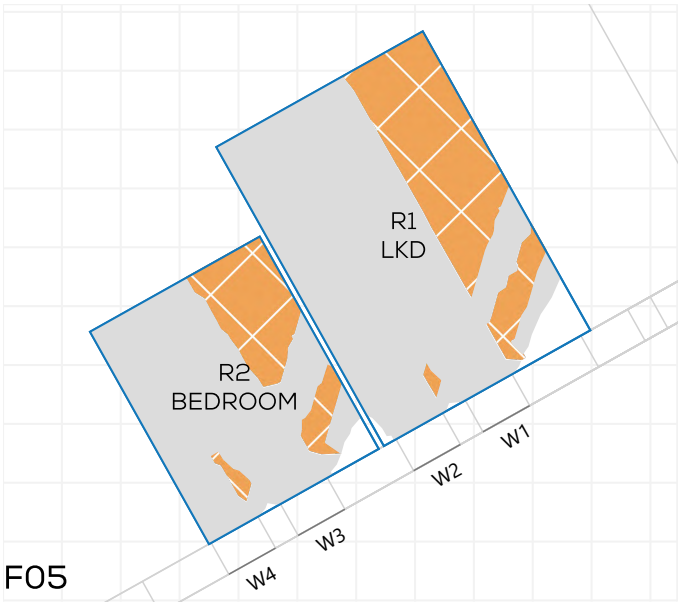
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F04	R7	RESIDENTIAL	BEDROOM	11.8	43.1	6.6	4.3	84.6
F04	R8	RESIDENTIAL	LKD	16.6	94.5	86	1.4	8.9
F04	R9	RESIDENTIAL	BEDROOM	12.2	73.9	48.7	3.1	34.1
F04	R10	RESIDENTIAL	LKD	16.9	95.9	72.3	4.0	24.7
F04	R11	RESIDENTIAL	BEDROOM	12.2	93.9	93.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD676

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





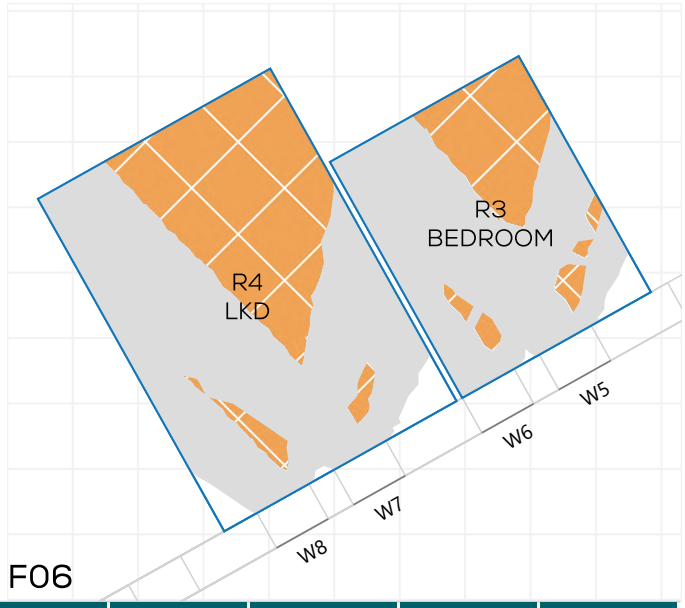
F05



F05



F06



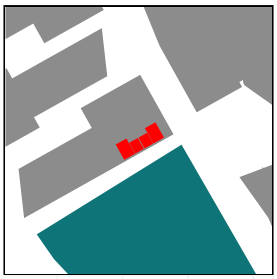
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F05	R1	RESIDENTIAL	LKD	23.4	96.4	68.4	6.5	29
F05	R2	RESIDENTIAL	BEDROOM	13.7	97.5	72.6	3.4	25.6
F05	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.5	3.7	27.6
F05	R4	RESIDENTIAL	LKD	23.7	96.6	60.7	8.5	37.2
F06	R1	RESIDENTIAL	LKD	23.4	96.4	68.3	6.6	29.2
F06	R2	RESIDENTIAL	BEDROOM	13.7	97.5	72.8	3.4	25.3
F06	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.7	3.6	27.4
F06	R4	RESIDENTIAL	LKD	23.7	96.6	60.7	8.5	37.2

NSL CONTOURS

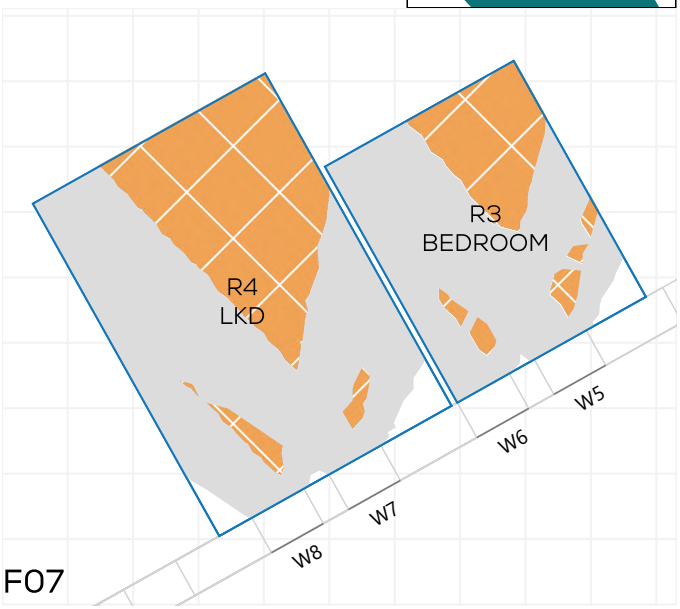
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD677

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





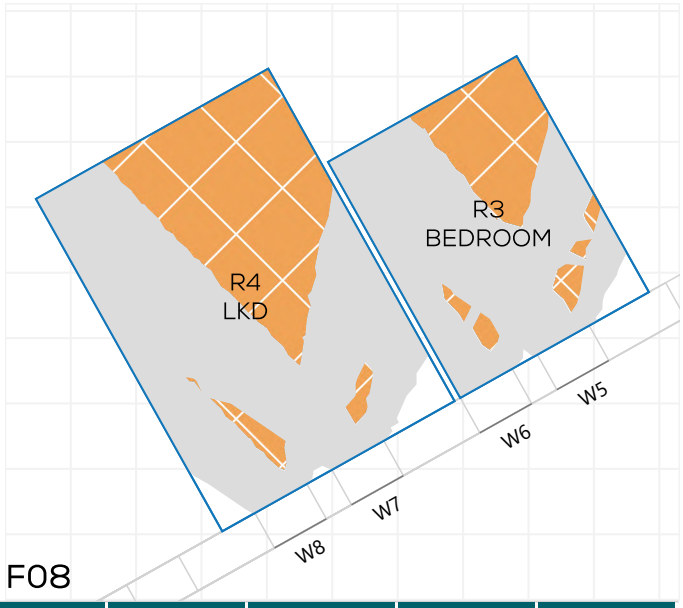
F07



F07



F08



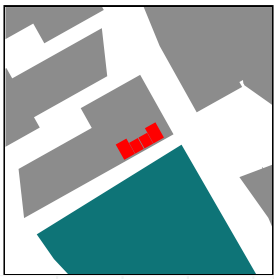
F08

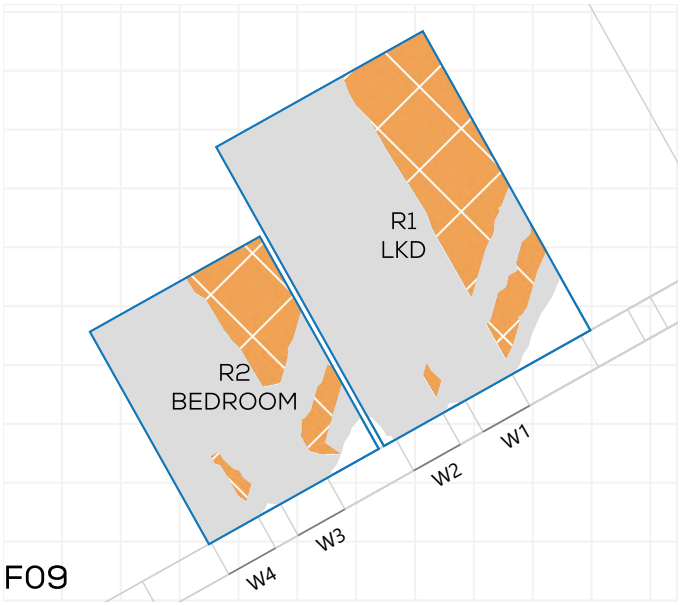
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F07	R1	RESIDENTIAL	LKD	23.4	96.4	68.4	6.6	29.1
F07	R2	RESIDENTIAL	BEDROOM	13.7	97.5	72.5	3.4	25.6
F07	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.7	3.6	27.4
F07	R4	RESIDENTIAL	LKD	23.7	96.6	60.7	8.5	37.2
F08	R1	RESIDENTIAL	LKD	23.4	96.4	68.3	6.6	29.1
F08	R2	RESIDENTIAL	BEDROOM	13.7	97.5	72.7	3.4	25.4
F08	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.8	3.6	27.3
F08	R4	RESIDENTIAL	LKD	23.7	96.6	60.9	8.5	37

NSL CONTOURS

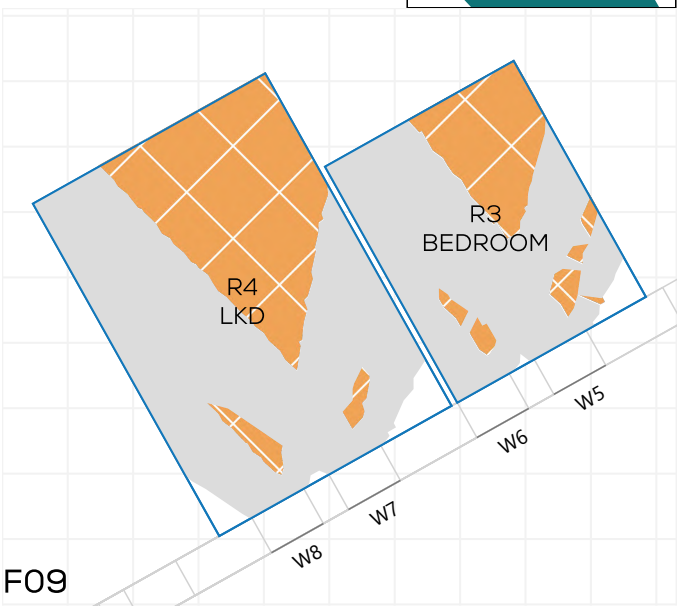
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD678

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

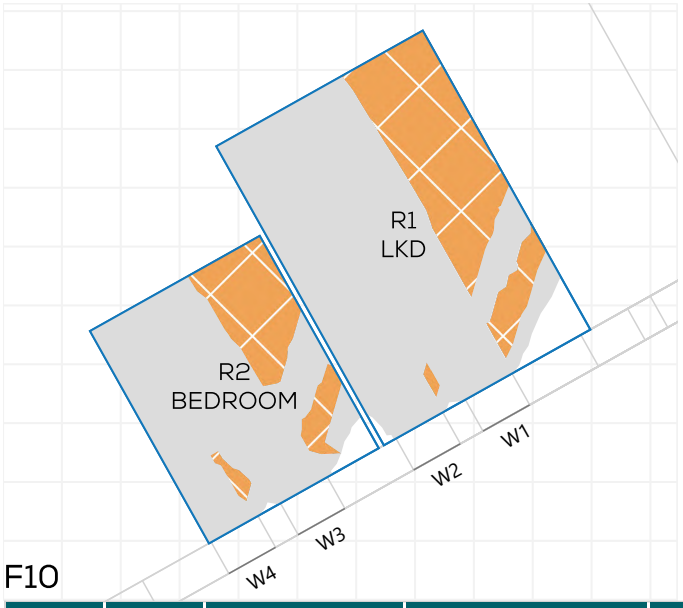




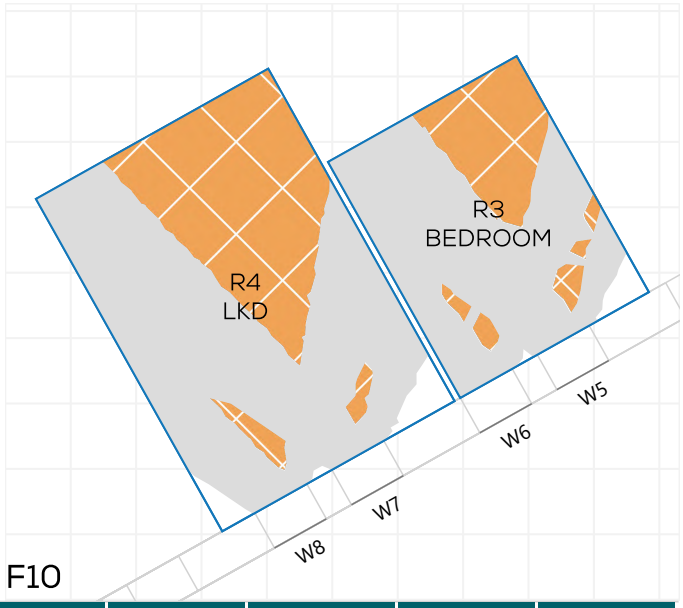
F09



F09



F10



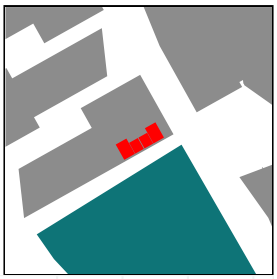
F10

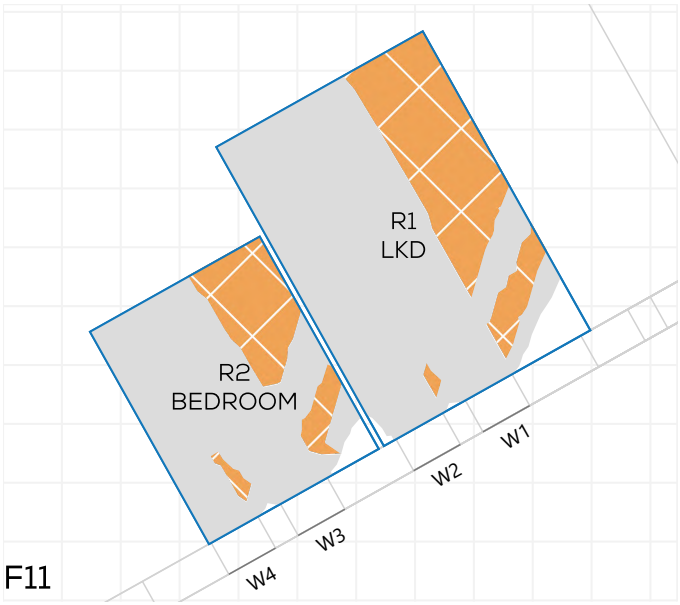
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F09	R1	RESIDENTIAL	LKD	23.4	96.4	68.4	6.5	29
F09	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73	3.4	25.2
F09	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.6	3.7	27.5
F09	R4	RESIDENTIAL	LKD	23.7	96.6	61.1	8.4	36.7
F10	R1	RESIDENTIAL	LKD	23.4	96.4	68.9	6.4	28.5
F10	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73.1	3.3	25.1
F10	R3	RESIDENTIAL	BEDROOM	13.7	97.4	71	3.6	27.1
F10	R4	RESIDENTIAL	LKD	23.7	96.6	61.2	8.4	36.6

NSL CONTOURS

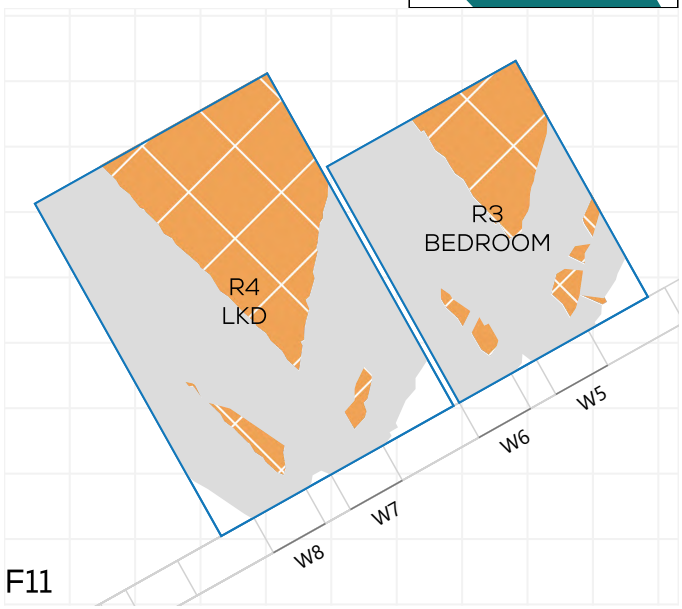
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD679

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





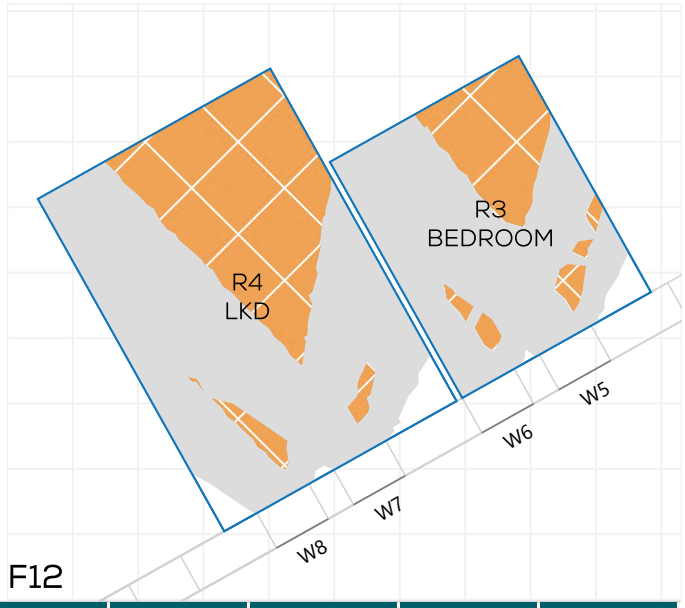
F11



F11



F12



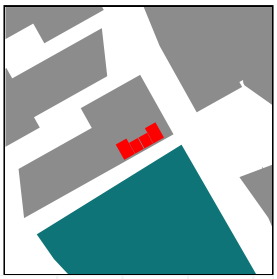
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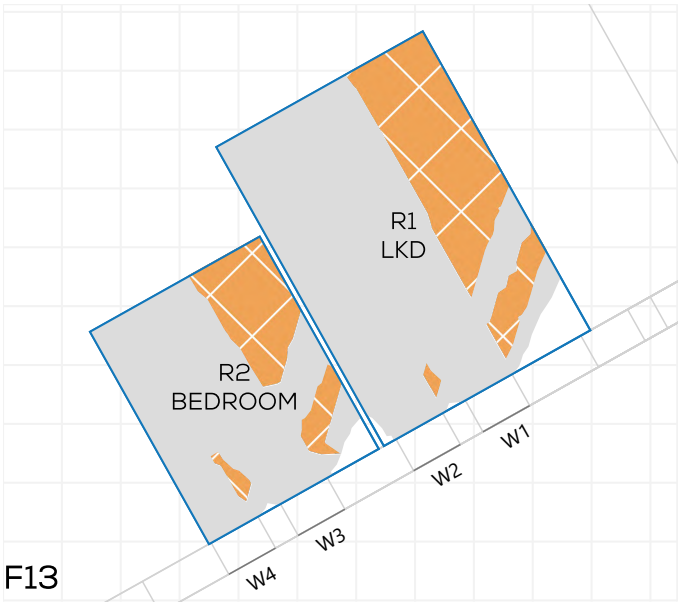
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F11	R1	RESIDENTIAL	LKD	23.4	96.4	69.1	6.4	28.3
F11	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73.2	3.3	24.9
F11	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.7	3.6	27.4
F11	R4	RESIDENTIAL	LKD	23.7	96.6	61.3	8.4	36.6
F12	R1	RESIDENTIAL	LKD	23.4	96.4	69.3	6.3	28.1
F12	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73.2	3.3	24.9
F12	R3	RESIDENTIAL	BEDROOM	13.7	97.4	71.1	3.6	27
F12	R4	RESIDENTIAL	LKD	23.7	96.6	61.3	8.4	36.5

NSL CONTOURS

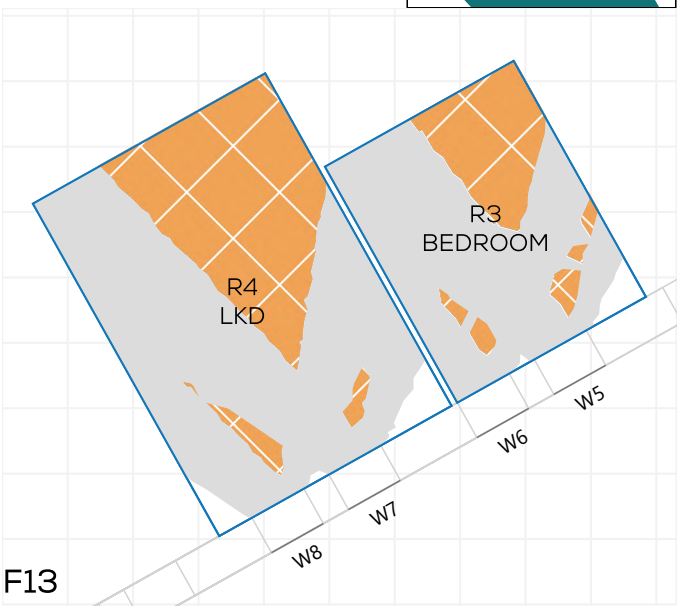
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD680

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





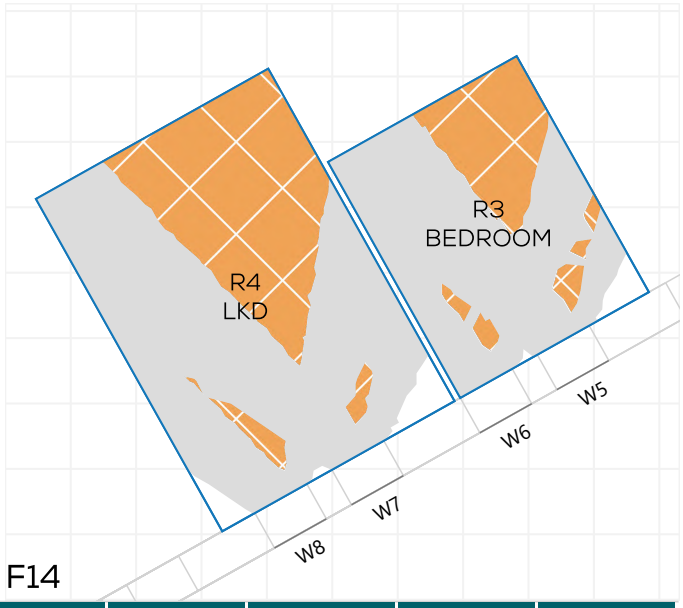
F13



F13



F14



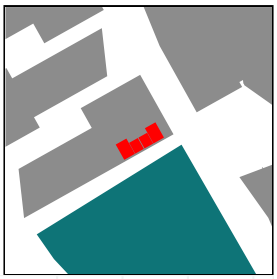
F14

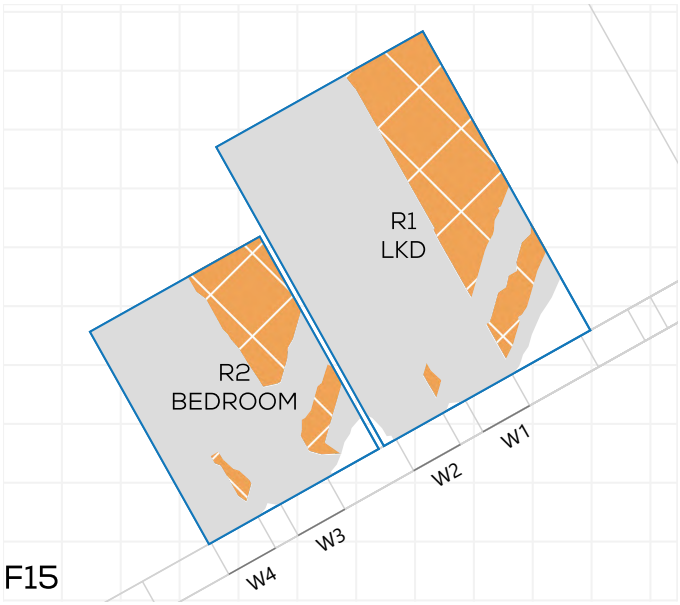
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F13	R1	RESIDENTIAL	LKD	23.4	96.4	69.3	6.3	28.1
F13	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73.1	3.3	25
F13	R3	RESIDENTIAL	BEDROOM	13.7	97.4	71	3.6	27
F13	R4	RESIDENTIAL	LKD	23.7	96.6	61.3	8.4	36.5
F14	R1	RESIDENTIAL	LKD	23.4	96.4	69.3	6.3	28.1
F14	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73.1	3.3	25
F14	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.8	3.6	27.3
F14	R4	RESIDENTIAL	LKD	23.7	96.6	61.2	8.4	36.6

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD681

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





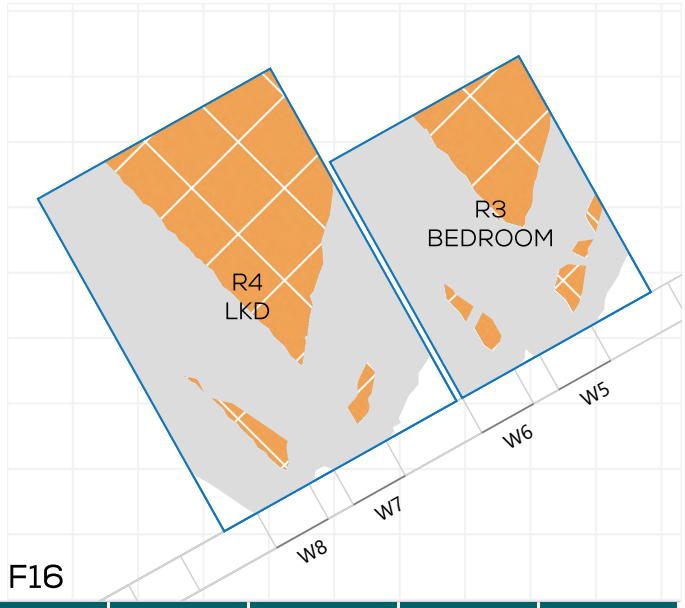
F15



F15



F16



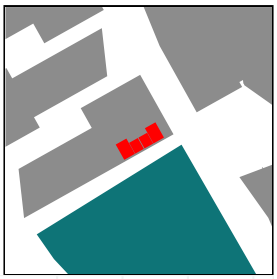
F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F15	R1	RESIDENTIAL	LKD	23.4	96.4	69.1	6.4	28.3
F15	R2	RESIDENTIAL	BEDROOM	13.7	97.5	72.9	3.4	25.2
F15	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.9	3.6	27.2
F15	R4	RESIDENTIAL	LKD	23.7	96.6	61.1	8.4	36.7
F16	R1	RESIDENTIAL	LKD	23.4	96.4	68.7	6.5	28.8
F16	R2	RESIDENTIAL	BEDROOM	13.7	97.5	72.7	3.4	25.5
F16	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.8	3.6	27.3
F16	R4	RESIDENTIAL	LKD	23.7	96.6	60.9	8.5	37

NSL CONTOURS

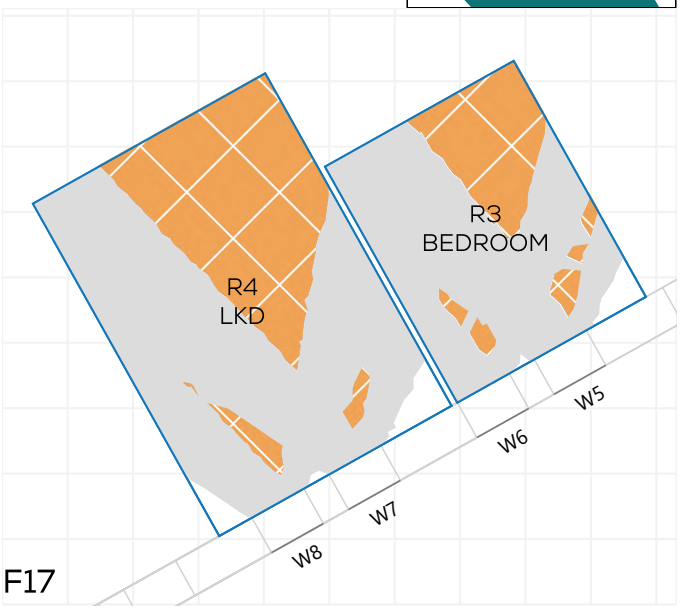
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD682

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





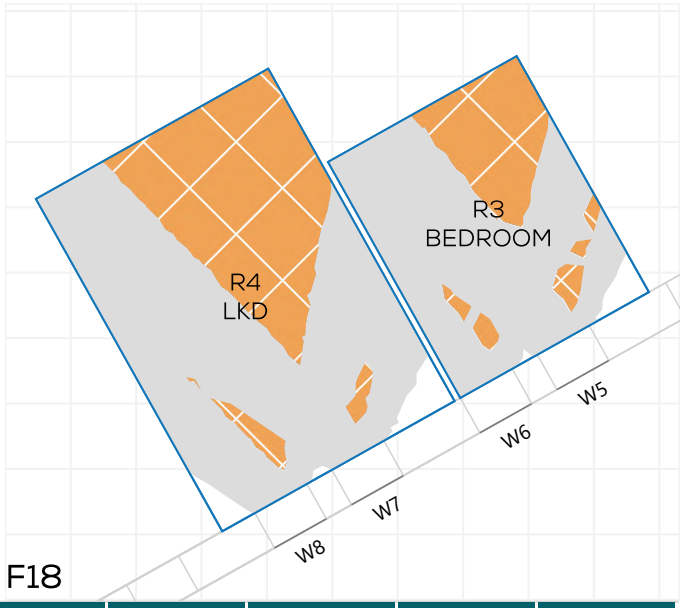
F17



F17



F18



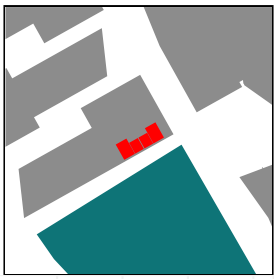
F18

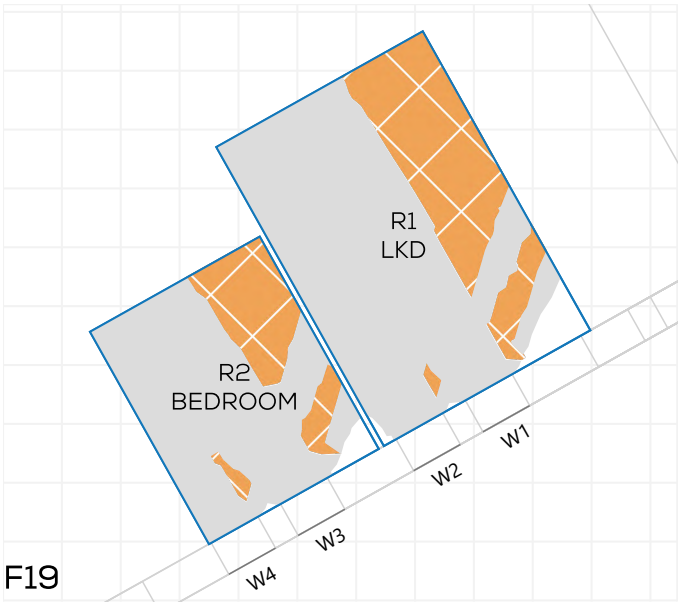
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F17	R1	RESIDENTIAL	LKD	23.4	96.4	68.5	6.5	28.9
F17	R2	RESIDENTIAL	BEDROOM	13.7	97.5	72.7	3.4	25.5
F17	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.7	3.7	27.4
F17	R4	RESIDENTIAL	LKD	23.7	96.6	61	8.5	36.9
F18	R1	RESIDENTIAL	LKD	23.4	96.4	68.6	6.5	28.9
F18	R2	RESIDENTIAL	BEDROOM	13.7	97.5	72.8	3.4	25.3
F18	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.9	3.6	27.1
F18	R4	RESIDENTIAL	LKD	23.7	96.6	61.1	8.4	36.8

NSL CONTOURS

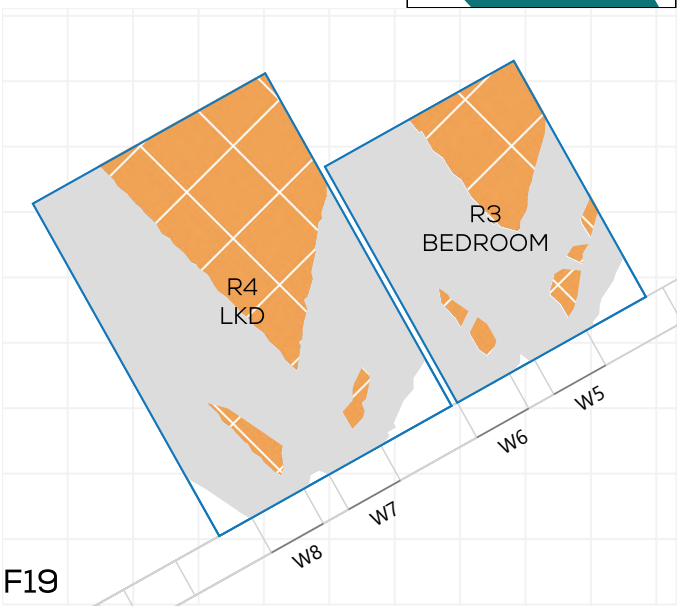
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD683

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

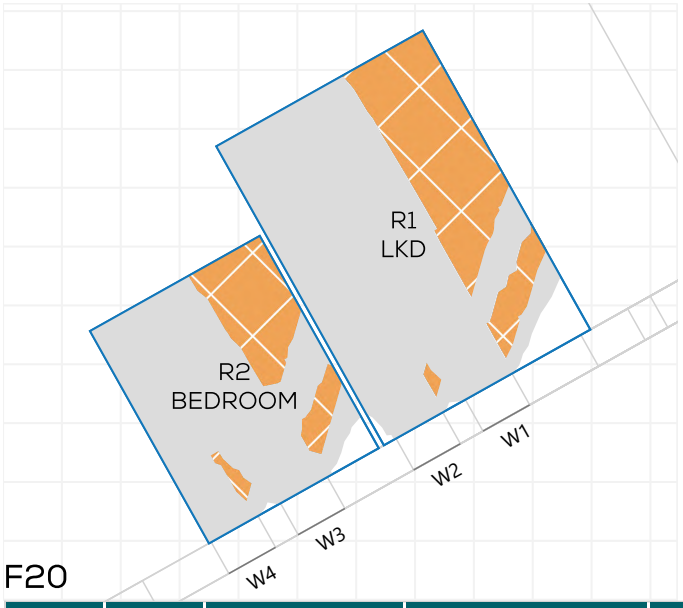




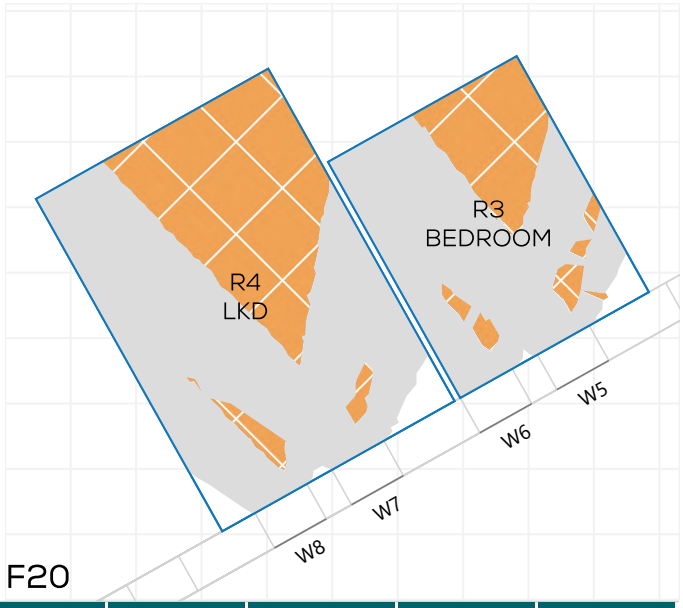
F19



F19



F20



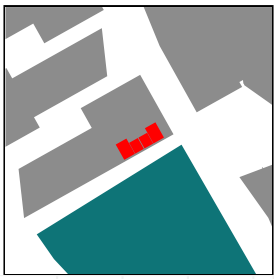
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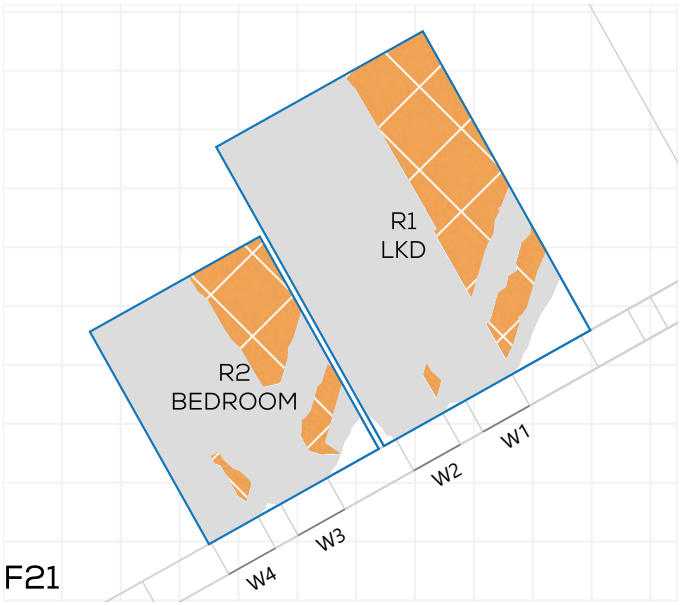
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F19	R1	RESIDENTIAL	LKD	23.4	96.4	68.5	6.5	28.9
F19	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73	3.3	25.1
F19	R3	RESIDENTIAL	BEDROOM	13.7	97.4	71	3.6	27.1
F19	R4	RESIDENTIAL	LKD	23.7	96.6	61.2	8.4	36.6
F20	R1	RESIDENTIAL	LKD	23.4	96.4	69.1	6.4	28.3
F20	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73.5	3.3	24.7
F20	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.7	3.6	27.4
F20	R4	RESIDENTIAL	LKD	23.7	96.6	61.3	8.4	36.6

NSL CONTOURS

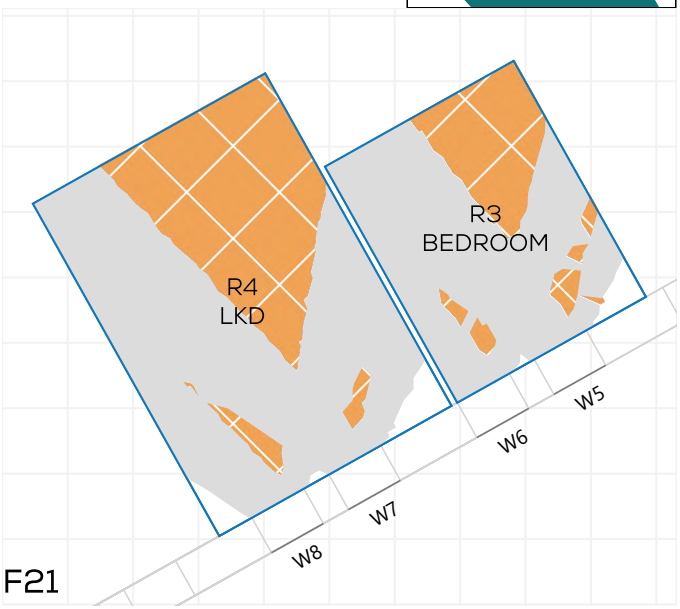
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD684

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





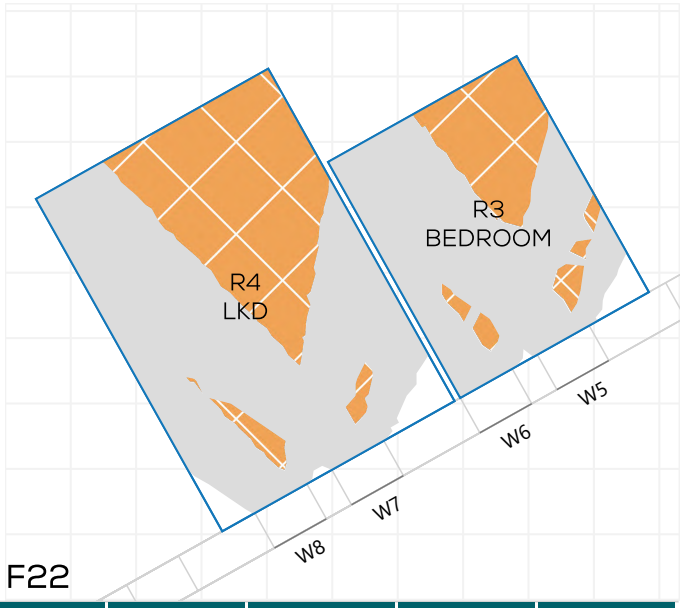
F21



F21



F22



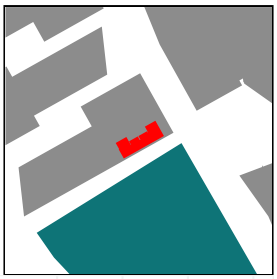
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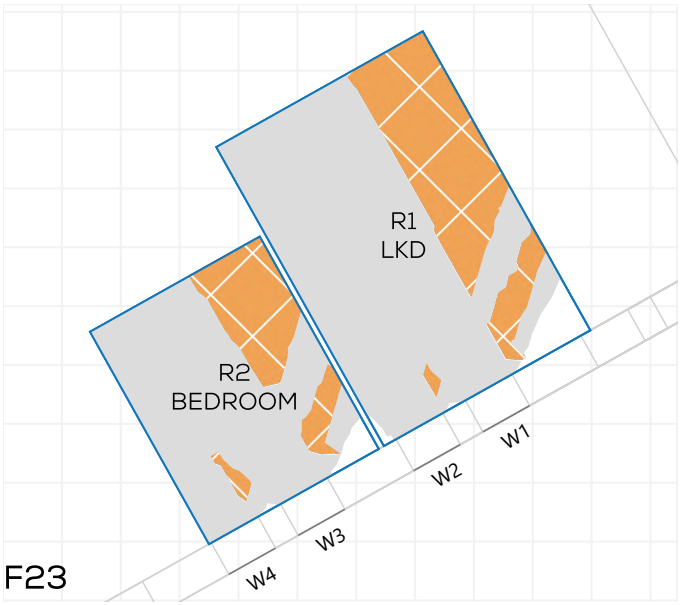
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F21	R1	RESIDENTIAL	LKD	23.4	96.4	69.3	6.3	28.1
F21	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73.2	3.3	25
F21	R3	RESIDENTIAL	BEDROOM	13.7	97.4	70.8	3.6	27.3
F21	R4	RESIDENTIAL	LKD	23.7	96.6	61.3	8.4	36.5
F22	R1	RESIDENTIAL	LKD	23.4	96.4	69.2	6.4	28.2
F22	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73.2	3.3	25
F22	R3	RESIDENTIAL	BEDROOM	13.7	97.4	71	3.6	27.1
F22	R4	RESIDENTIAL	LKD	23.7	96.6	61.3	8.4	36.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD685

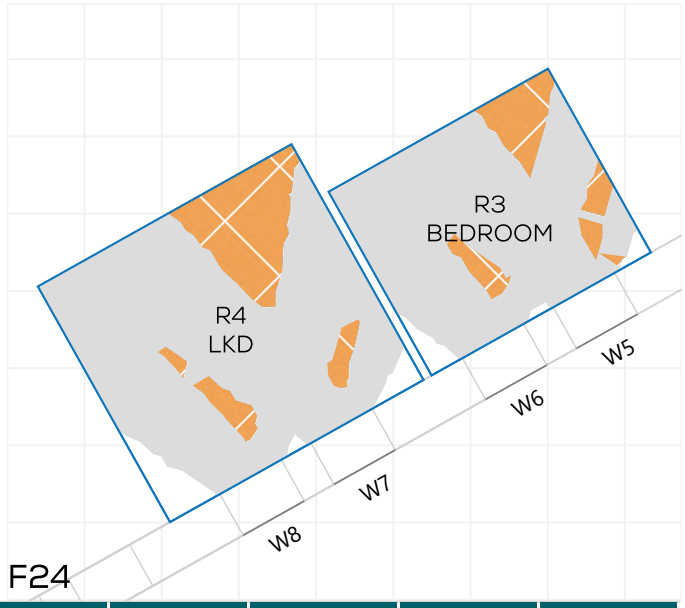
KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID











FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F23	R1	RESIDENTIAL	LKD	23.4	96.4	69.1	6.4	28.3
F23	R2	RESIDENTIAL	BEDROOM	13.7	97.5	73.1	3.3	25.1
F23	R3	RESIDENTIAL	BEDROOM	13.7	97.4	71	3.6	27.1
F23	R4	RESIDENTIAL	LKD	23.7	96.6	61.3	8.4	36.6
F24	R1	RESIDENTIAL	LKD	13.5	92.5	78.7	1.9	14.9
F24	R2	RESIDENTIAL	BEDROOM	8.9	95.2	83	1.1	12.8
F24	R3	RESIDENTIAL	BEDROOM	8.9	96.4	82.3	1.3	14.6
F24	R4	RESIDENTIAL	LKD	13.2	94.7	76.9	2.3	18.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 3
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD686

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F25

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 3								
F25	R1	RESIDENTIAL	LKD	63.8	99.6	98	1.0	1.6
F25	R2	RESIDENTIAL	LKD	63.8	99.8	99.5	0.2	0.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD687

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



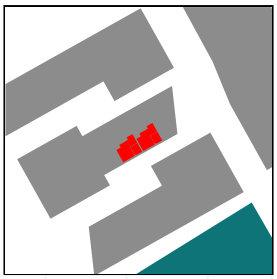
F00

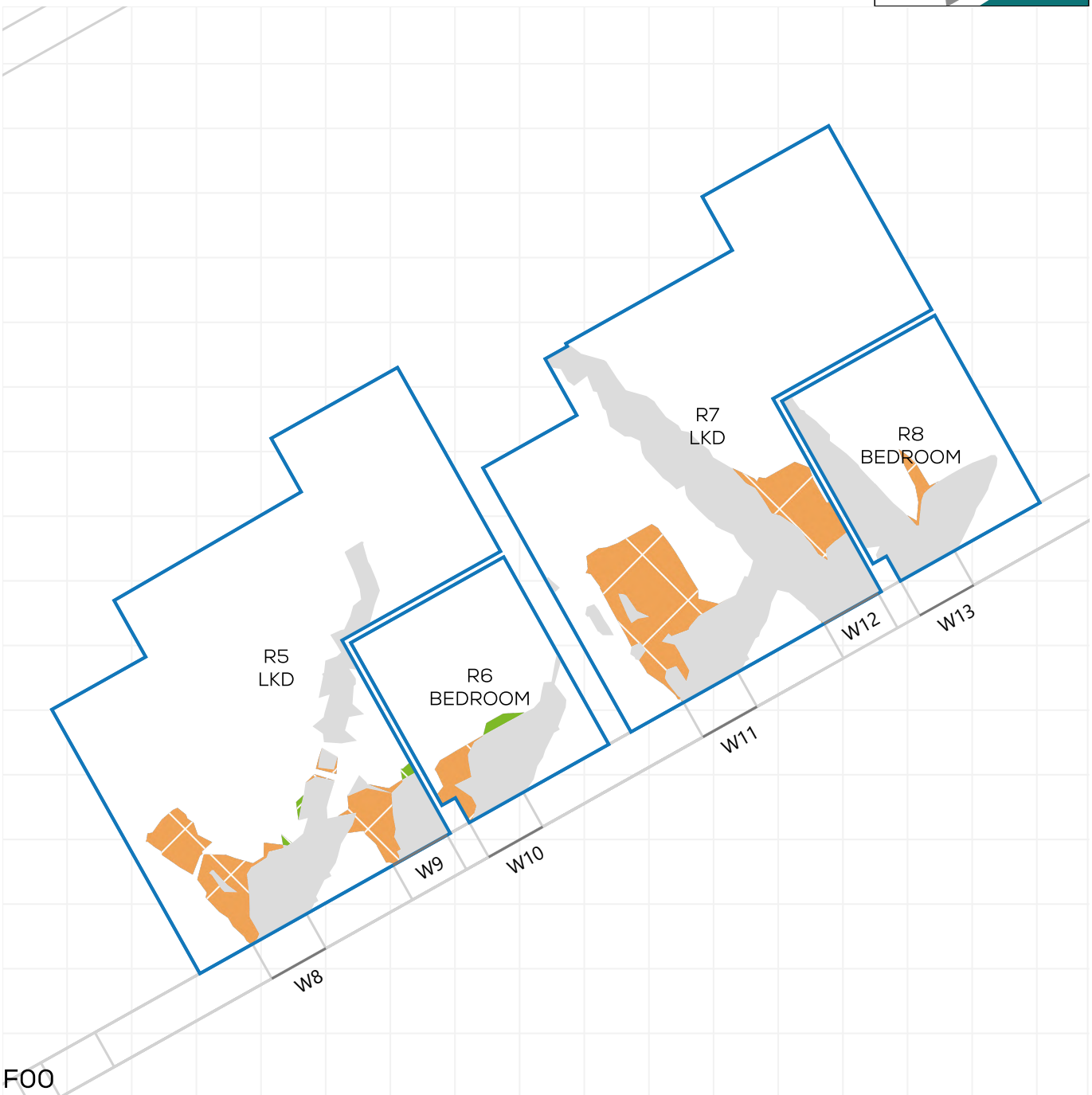
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F00	R1	RESIDENTIAL	LKD	29.9	91.2	88.1	0.9	3.4
F00	R2	RESIDENTIAL	BEDROOM	8.8	50.1	45.6	0.4	9.1
F00	R3	RESIDENTIAL	BEDROOM	8.9	35.7	32.9	0.2	7.6
F00	R4	RESIDENTIAL	LKD	32.8	30.7	28.9	0.6	5.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD688

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





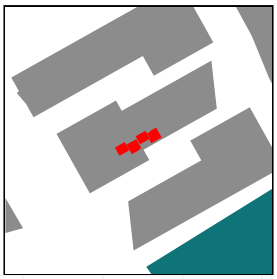
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F00	R5	RESIDENTIAL	LKD	32.2	18	12.3	1.8	31.8
F00	R6	RESIDENTIAL	BEDROOM	8.9	22.7	19.1	0.3	15.8
F00	R7	RESIDENTIAL	LKD	32.3	30.6	20	3.4	34.6
F00	R8	RESIDENTIAL	BEDROOM	8.9	33.7	32	0.2	5.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD689

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





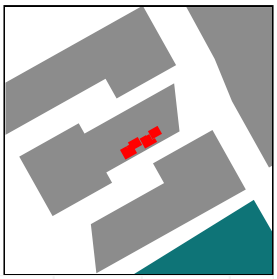
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F01	R1	RESIDENTIAL	BEDROOM	13.5	73.9	70.4	0.5	4.7
F01	R2	RESIDENTIAL	LKD	11.8	0.5	0.3	0.0	45.3
F01	R3	RESIDENTIAL	BEDROOM	11.4	18.6	8.7	1.1	53.1
F01	R4	RESIDENTIAL	BEDROOM	13.7	71.3	69.3	0.3	2.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD690

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F01	R5	RESIDENTIAL	BEDROOM	16.4	45	26.3	3.1	41.5
F01	R6	RESIDENTIAL	BEDROOM	11.4	9.3	9.3	0.0	0
F01	R7	RESIDENTIAL	BEDROOM	14.6	45.4	21.6	3.5	52.4
F01	R8	RESIDENTIAL	BEDROOM	11.2	4.2	4.2	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD691

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



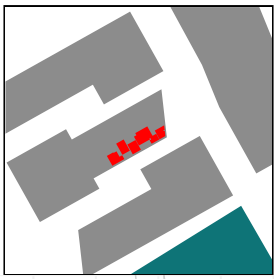
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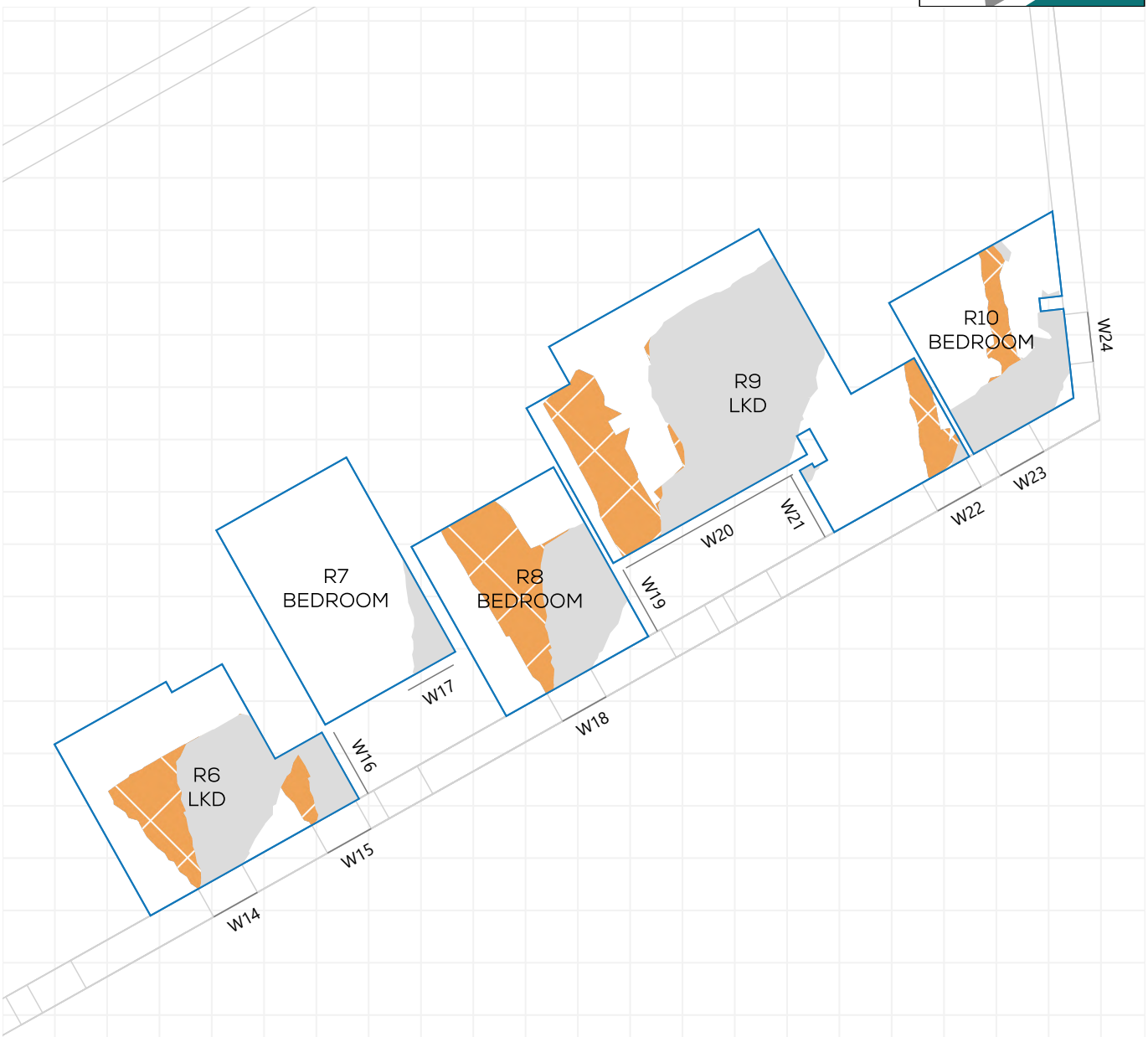
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F02	R1	RESIDENTIAL	BEDROOM	13.9	97.4	94.7	0.4	2.8
F02	R2	RESIDENTIAL	BEDROOM	8.6	97.1	91	0.5	6.3
F02	R3	RESIDENTIAL	LKD	32.3	87.3	83.9	1.1	3.8
F02	R4	RESIDENTIAL	BEDROOM	11.7	19.9	5.6	1.7	72
F02	R5	RESIDENTIAL	LKD	16.5	79.2	74.2	0.8	6.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD692

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





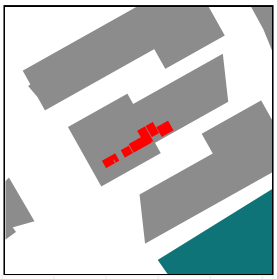
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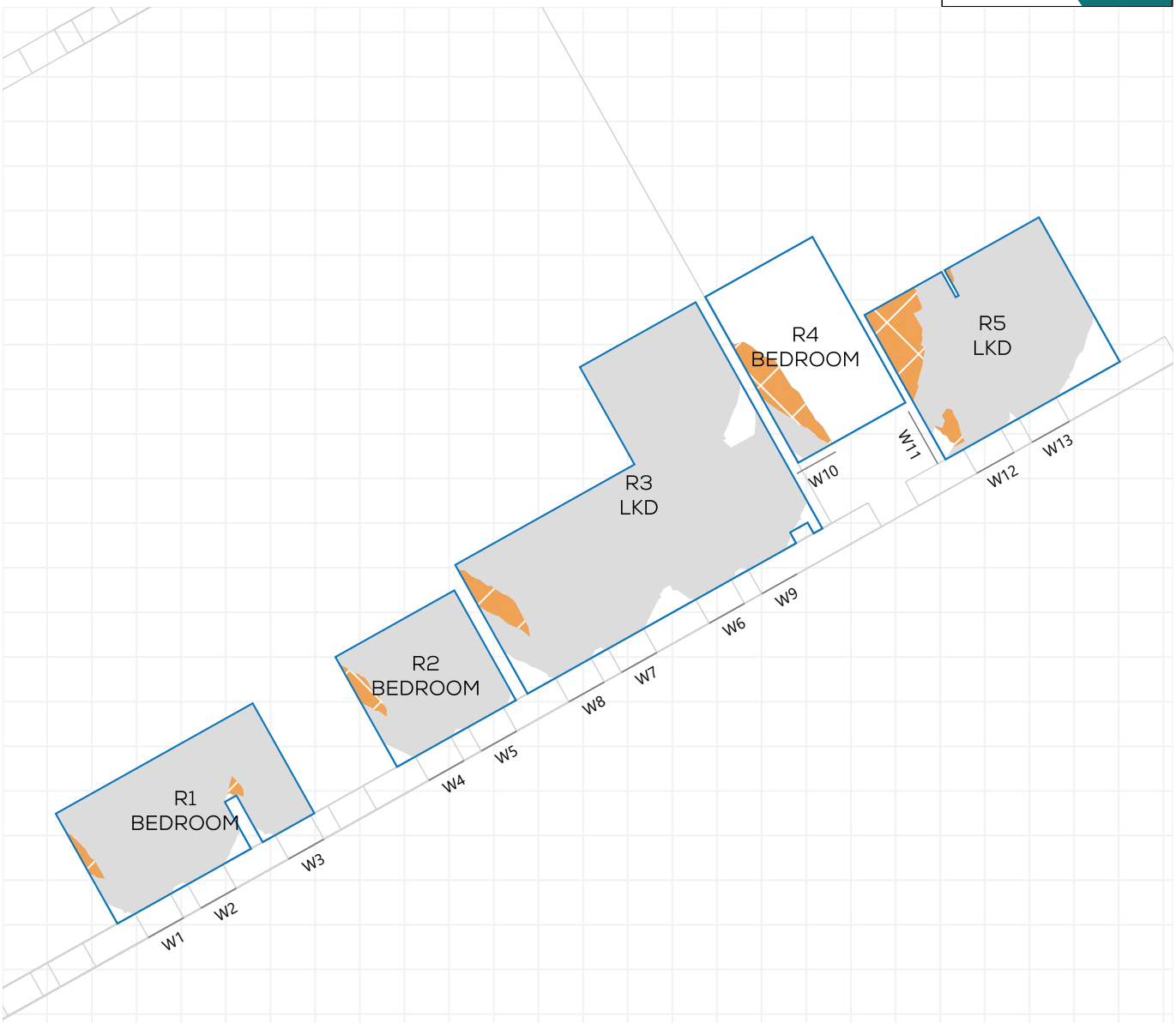
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F02	R6	RESIDENTIAL	LKD	14.5	54.9	37.6	2.5	31.6
F02	R7	RESIDENTIAL	BEDROOM	12.1	7.1	7.1	0.0	0
F02	R8	RESIDENTIAL	BEDROOM	11.5	60.2	28.9	3.6	52
F02	R9	RESIDENTIAL	LKD	27.7	56.9	40.3	4.6	29.3
F02	R10	RESIDENTIAL	BEDROOM	9.4	40.2	30.8	0.9	23.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD693

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





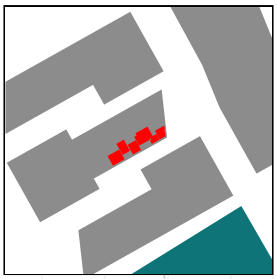
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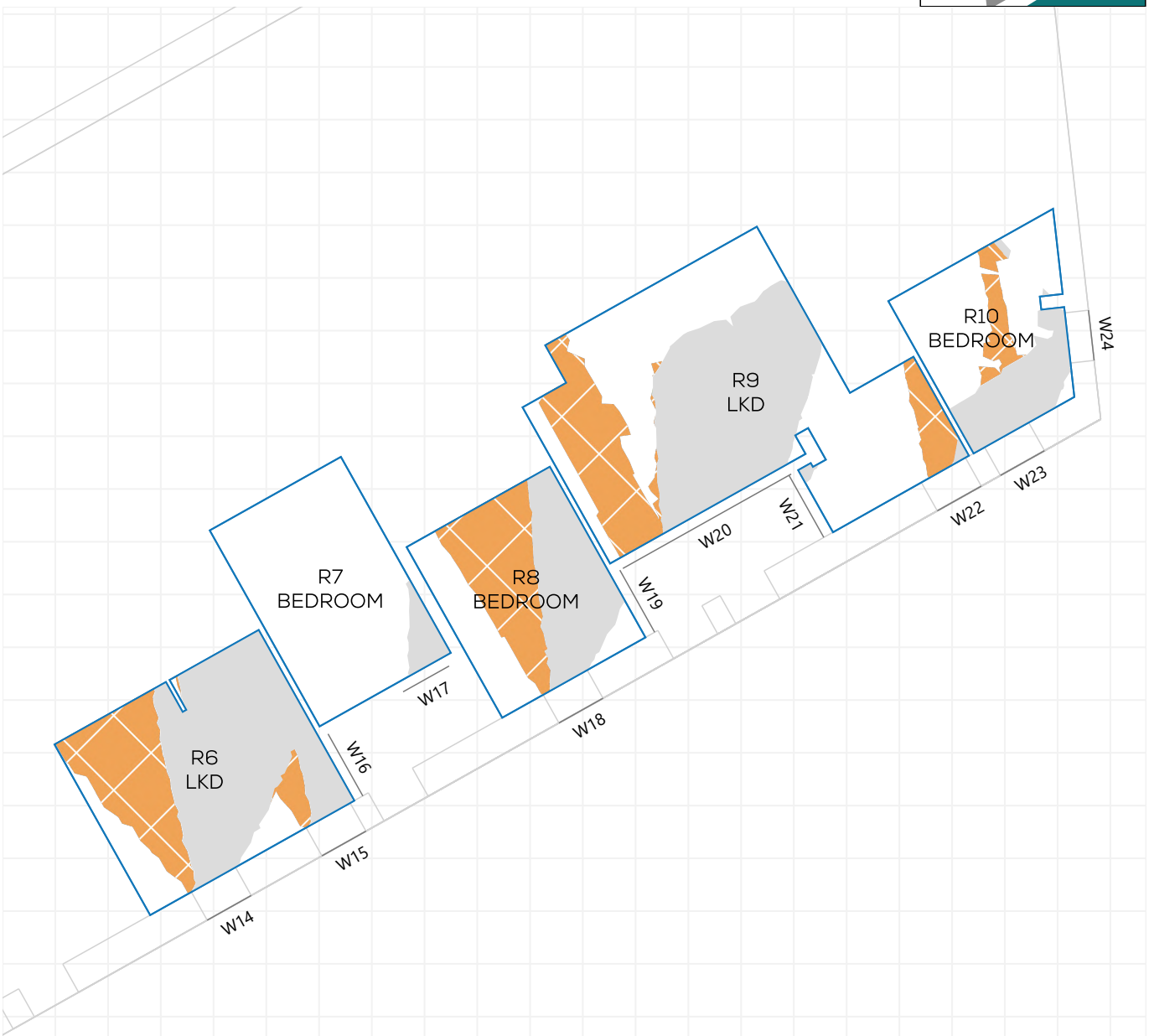
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F03	R1	RESIDENTIAL	BEDROOM	13.9	97.4	95	0.3	2.4
F03	R2	RESIDENTIAL	BEDROOM	8.6	98	93.5	0.4	4.6
F03	R3	RESIDENTIAL	LKD	32.3	95.1	92.8	0.7	2.4
F03	R4	RESIDENTIAL	BEDROOM	11.7	17.2	5.4	1.4	68.8
F03	R5	RESIDENTIAL	LKD	16.5	93.7	81.2	2.1	13.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD694

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





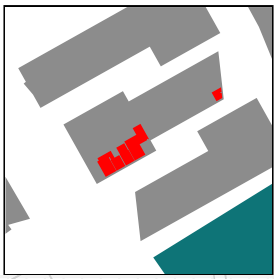
F03

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F03	R6	RESIDENTIAL	LKD	16.4	86.6	58	4.7	33
F03	R7	RESIDENTIAL	BEDROOM	12.1	6.2	6.2	0.0	0
F03	R8	RESIDENTIAL	BEDROOM	11.5	72.4	37.2	4.1	48.6
F03	R9	RESIDENTIAL	LKD	27.7	54.2	35.6	5.2	34.3
F03	R10	RESIDENTIAL	BEDROOM	9.4	40.2	30.1	0.9	25

NSL CONTOURS

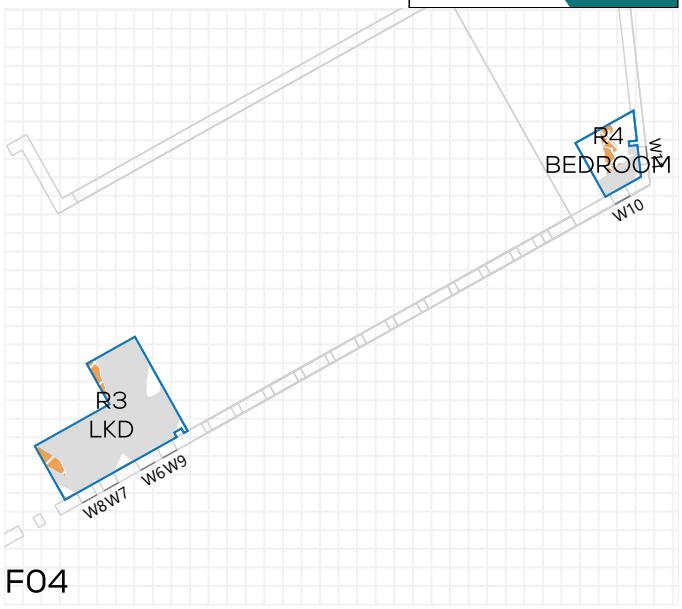
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD695

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

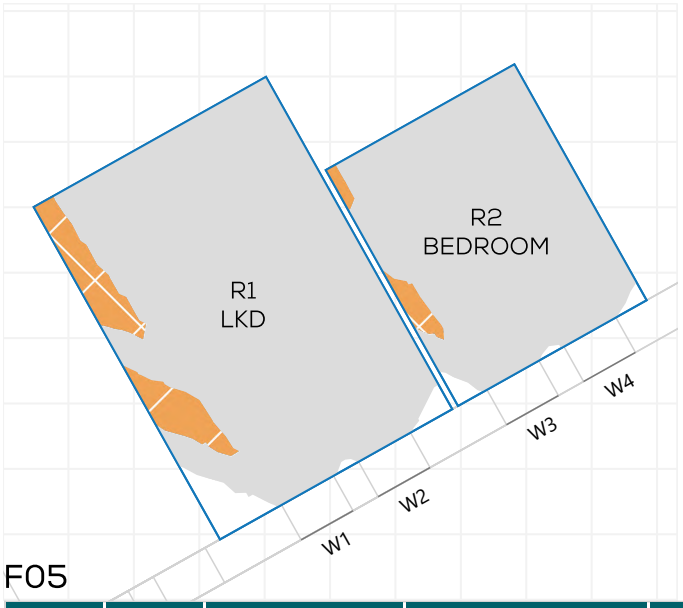




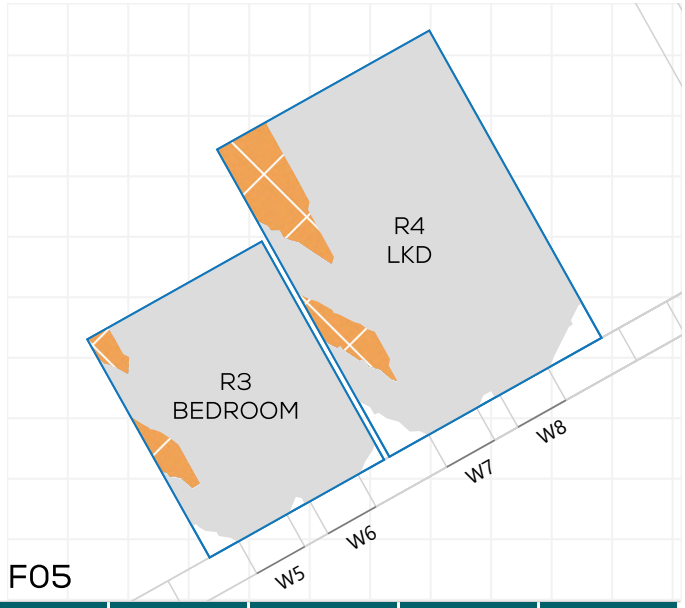
F04



F04



F05



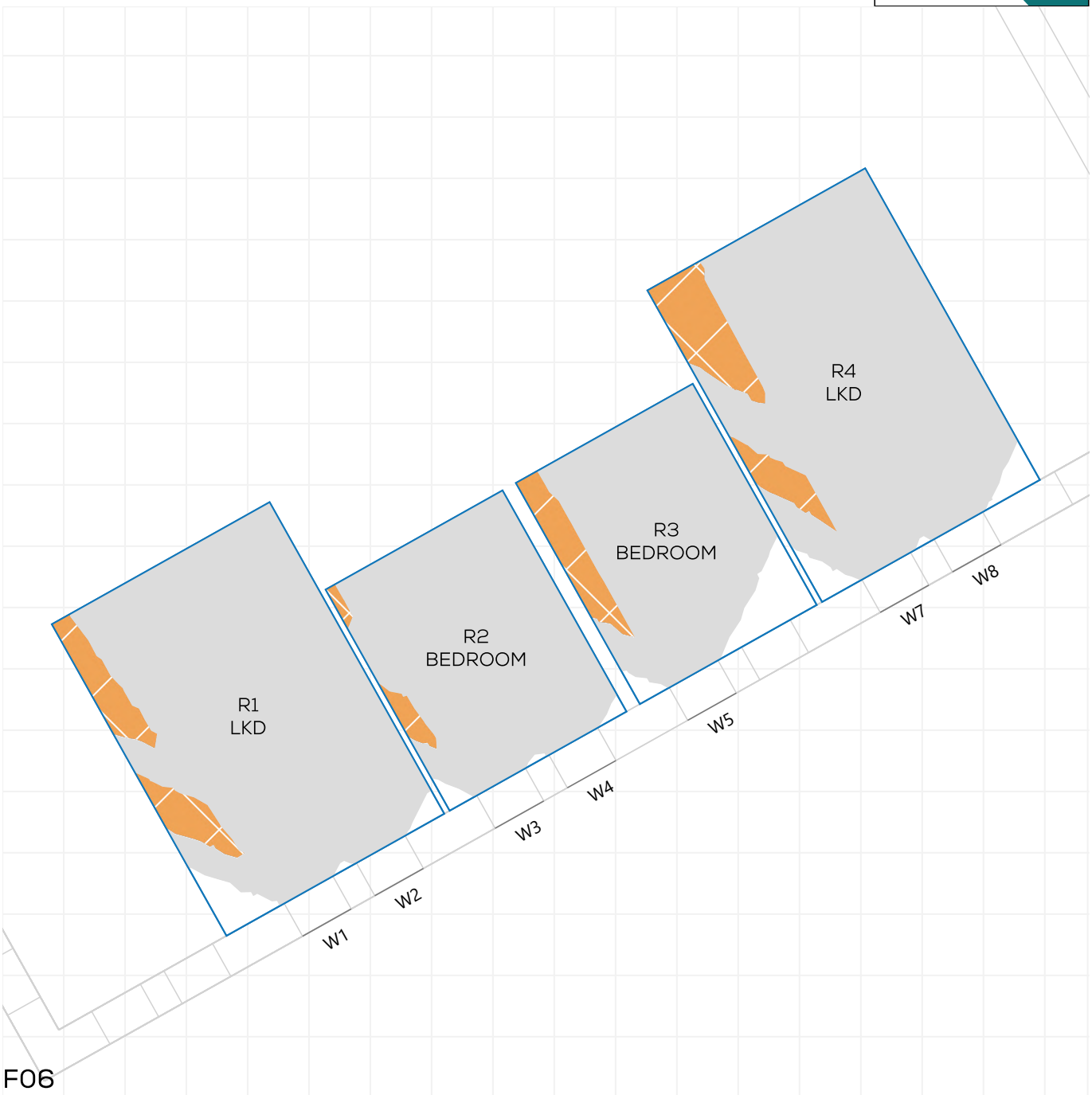
F05

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F04	R1	RESIDENTIAL	BEDROOM	13.9	97.1	92.2	0.7	5.1
F04	R2	RESIDENTIAL	BEDROOM	8.6	97.8	91.6	0.5	6.3
F04	R3	RESIDENTIAL	LKD	32.3	93.8	88.5	1.7	5.6
F04	R4	RESIDENTIAL	BEDROOM	9.4	41.2	29.5	1.1	28.6
F05	R1	RESIDENTIAL	LKD	23.7	96.4	88.4	1.9	8.3
F05	R2	RESIDENTIAL	BEDROOM	13.7	98.1	94.9	0.4	3.3
F05	R3	RESIDENTIAL	BEDROOM	13.7	98	92.8	0.7	5.4
F05	R4	RESIDENTIAL	LKD	23.4	96.9	86	2.5	11.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD696

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



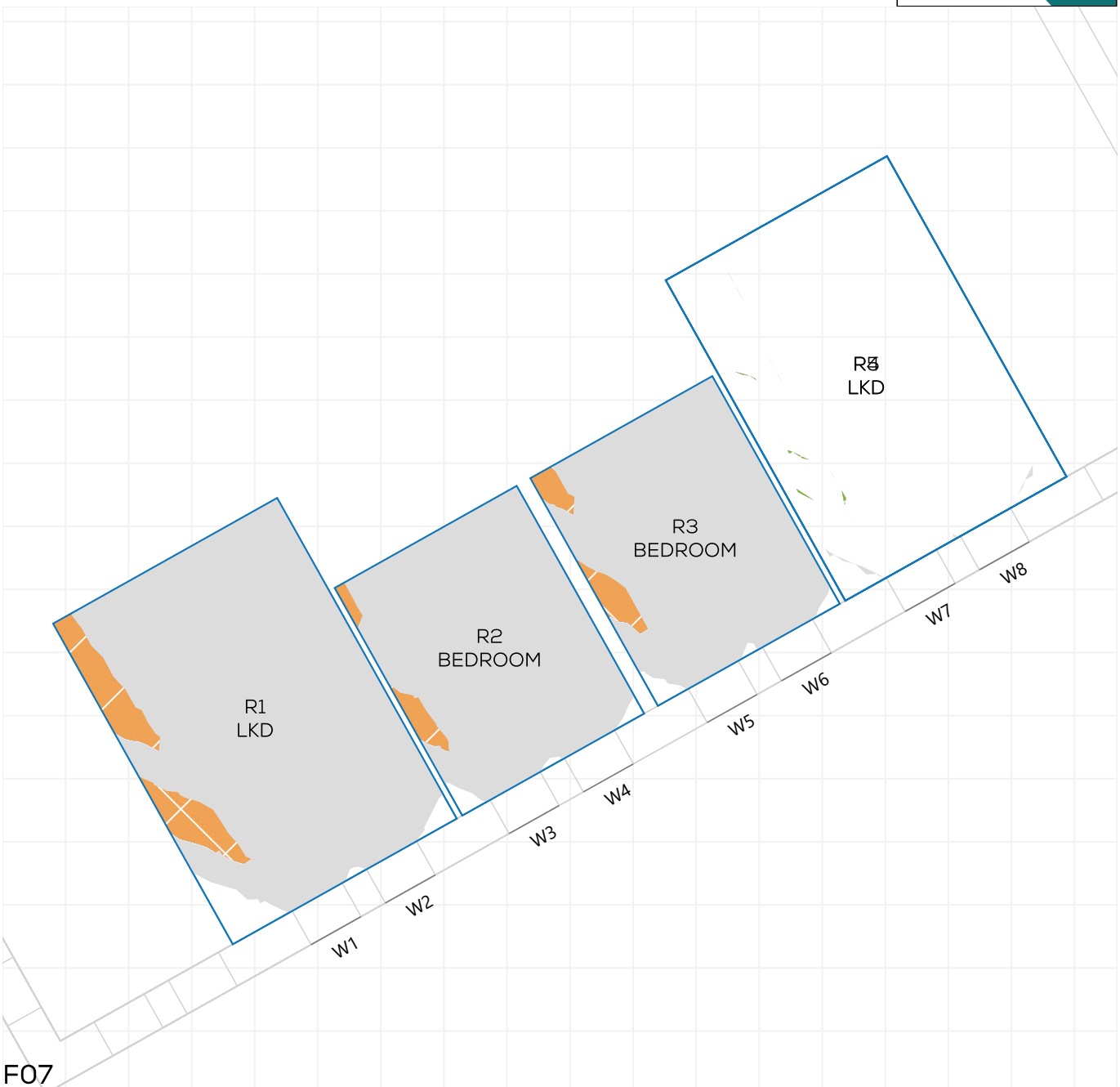
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F06	R1	RESIDENTIAL	LKD	23.7	96.4	88.4	1.9	8.3
F06	R2	RESIDENTIAL	BEDROOM	13.7	98.1	94.8	0.4	3.3
F06	R3	RESIDENTIAL	BEDROOM	13.7	90.3	80.9	1.3	10.4
F06	R4	RESIDENTIAL	LKD	23.7	96.8	86	2.6	11.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD697

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



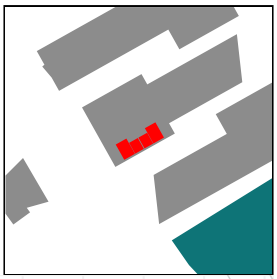
F07

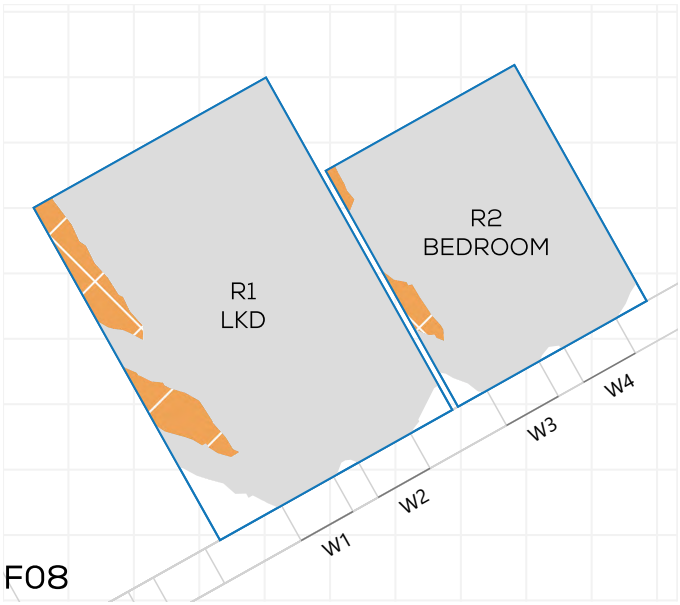
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F07	R1	RESIDENTIAL	LKD	23.7	96.4	88.5	1.9	8.2
F07	R2	RESIDENTIAL	BEDROOM	13.7	98.1	94.9	0.4	3.3
F07	R3	RESIDENTIAL	BEDROOM	13.7	98	92.8	0.7	5.4
F07	R4	RESIDENTIAL	LKD	23.4	96.8	86	2.5	11.2
F07	R5	RESIDENTIAL	LKD	23.4	96.9	86.1	2.5	11.1

NSL CONTOURS

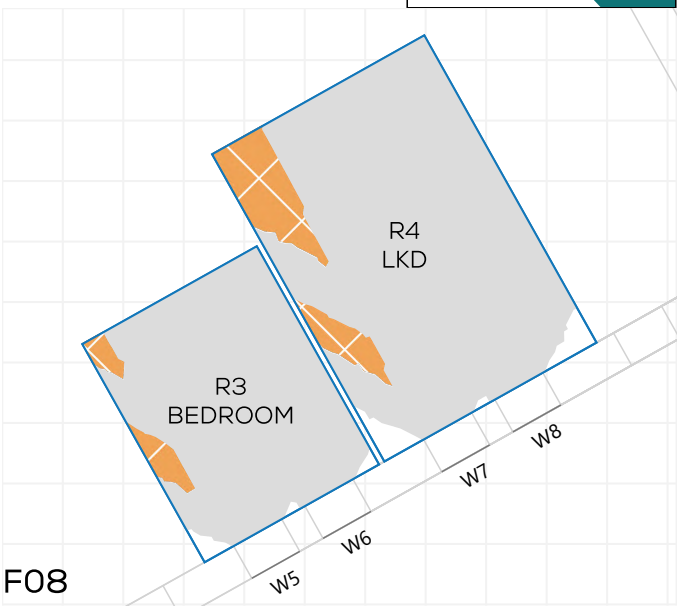
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD698

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

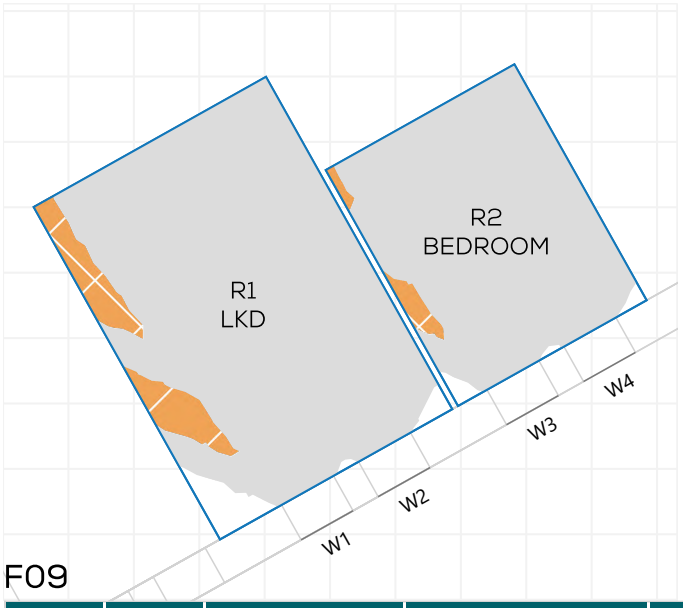




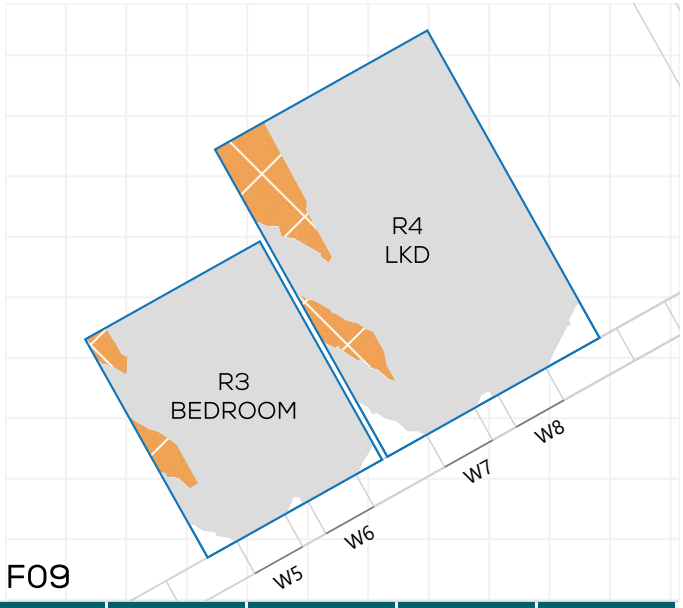
F08



F08



F09



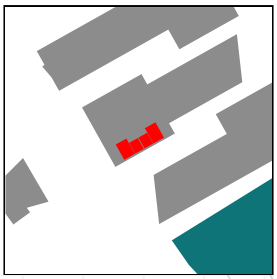
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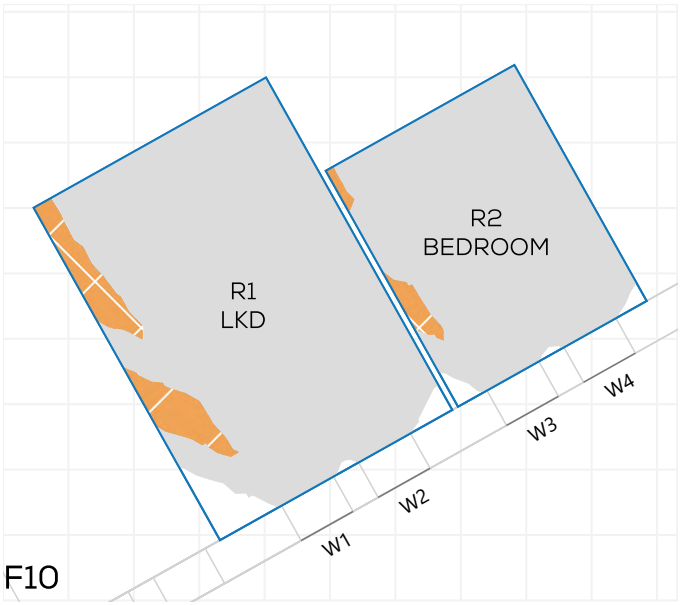
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F08	R1	RESIDENTIAL	LKD	23.7	96.4	88.7	1.8	8.1
F08	R2	RESIDENTIAL	BEDROOM	13.7	98.1	95	0.4	3.2
F08	R3	RESIDENTIAL	BEDROOM	13.7	98	92.8	0.7	5.3
F08	R4	RESIDENTIAL	LKD	23.4	96.9	86.2	2.5	11
F09	R1	RESIDENTIAL	LKD	23.7	96.4	88.9	1.8	7.9
F09	R2	RESIDENTIAL	BEDROOM	13.7	98.1	95.1	0.4	3.1
F09	R3	RESIDENTIAL	BEDROOM	13.7	98	92.8	0.7	5.3
F09	R4	RESIDENTIAL	LKD	23.4	96.9	86.4	2.5	10.9

NSL CONTOURS

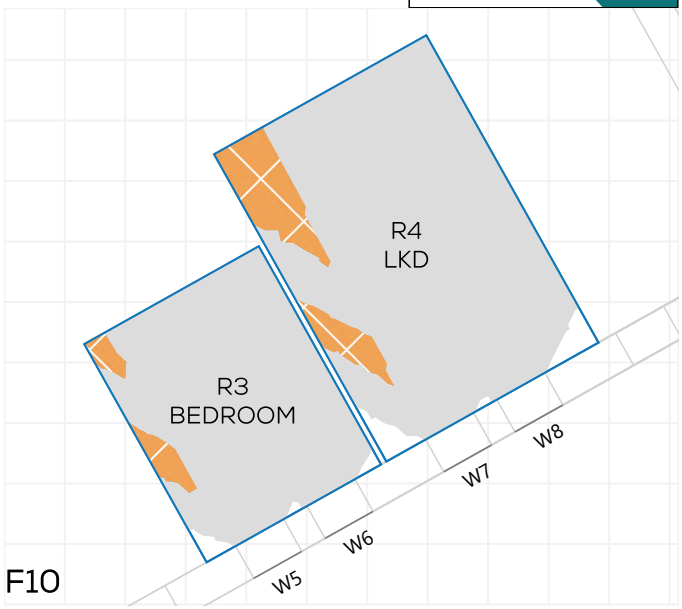
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD699

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

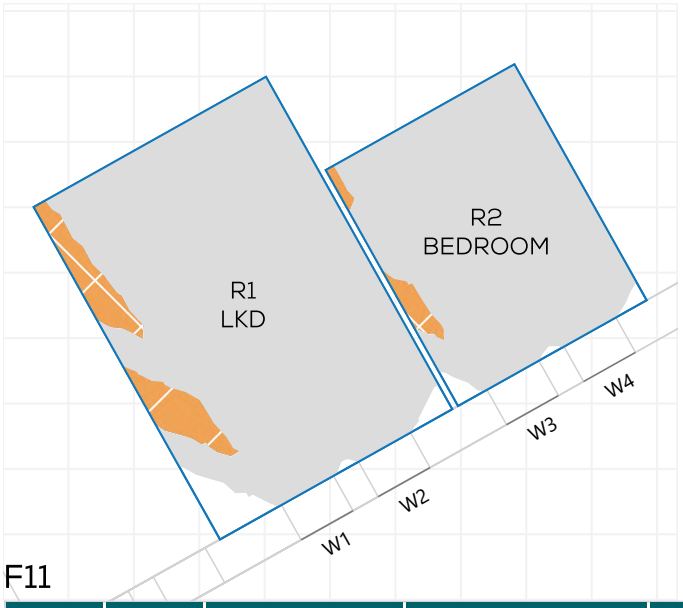




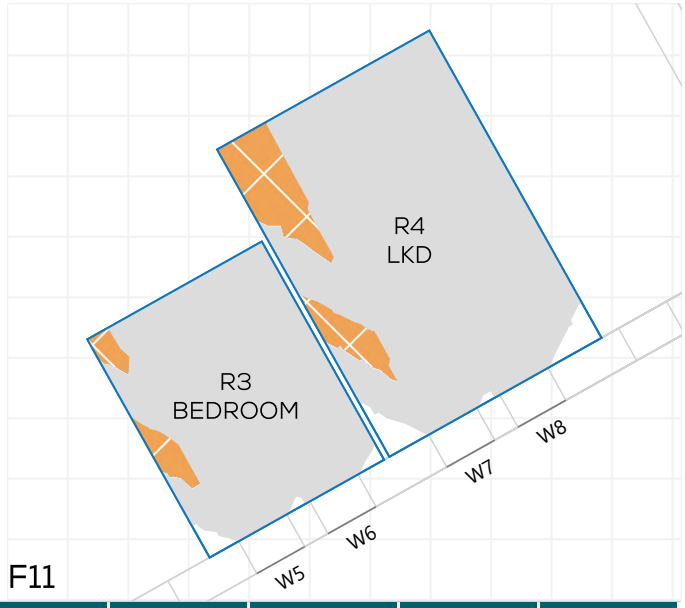
F10



F10



F11



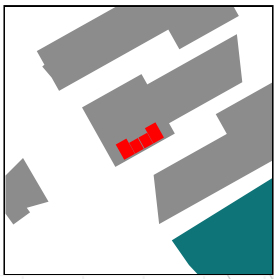
F11

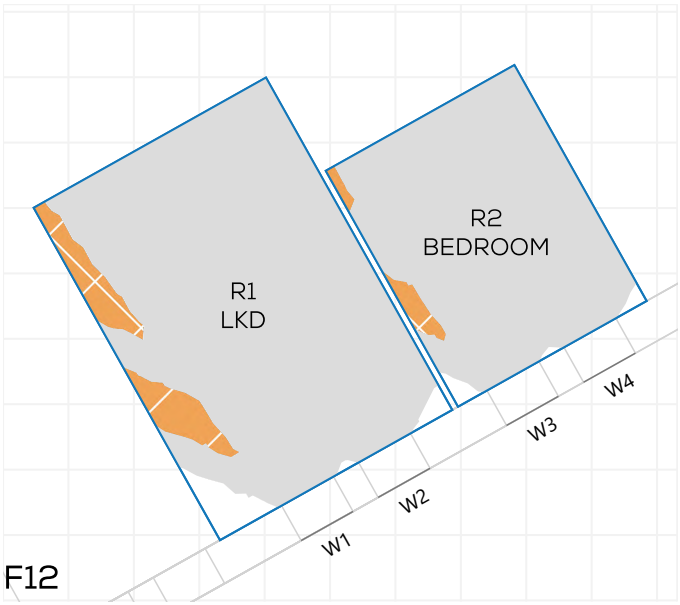
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F10	R1	RESIDENTIAL	LKD	23.7	96.4	89	1.8	7.7
F10	R2	RESIDENTIAL	BEDROOM	13.7	98.1	95.1	0.4	3.1
F10	R3	RESIDENTIAL	BEDROOM	13.7	98	92.8	0.7	5.4
F10	R4	RESIDENTIAL	LKD	23.4	96.9	86.3	2.5	10.9
F11	R1	RESIDENTIAL	LKD	23.7	96.4	89.2	1.7	7.5
F11	R2	RESIDENTIAL	BEDROOM	13.7	98.2	95.1	0.4	3.2
F11	R3	RESIDENTIAL	BEDROOM	13.7	98	92.8	0.7	5.4
F11	R4	RESIDENTIAL	LKD	23.4	96.8	86.2	2.5	11

NSL CONTOURS

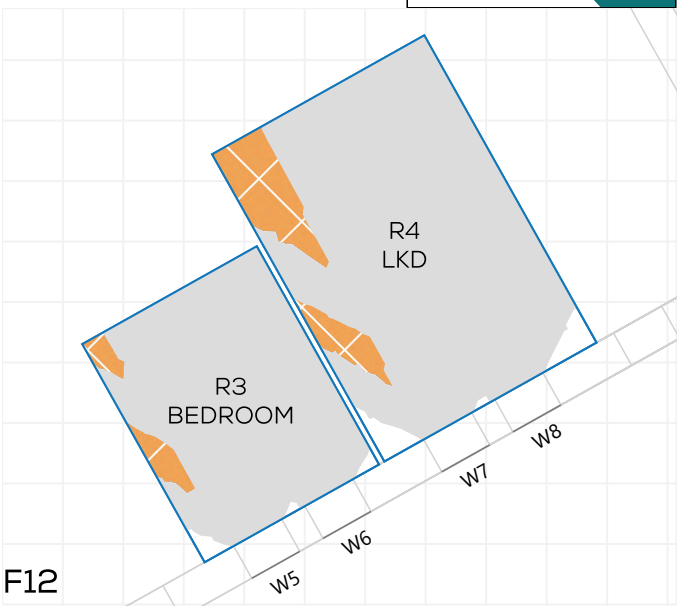
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD700

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

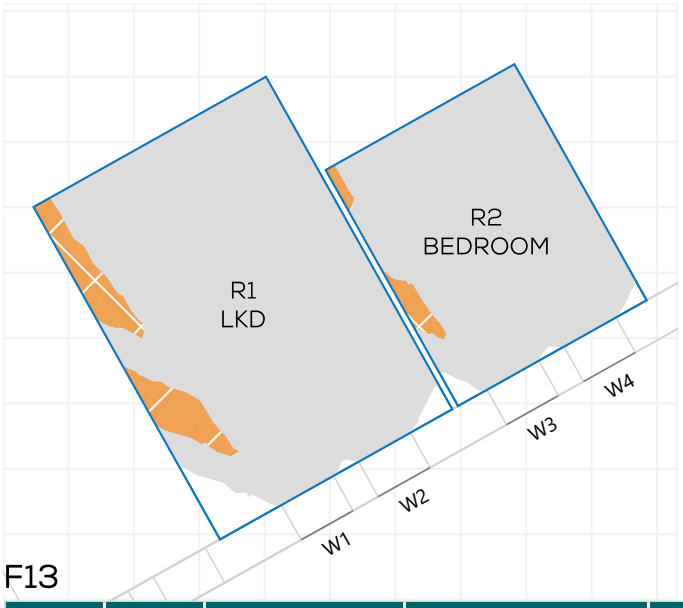




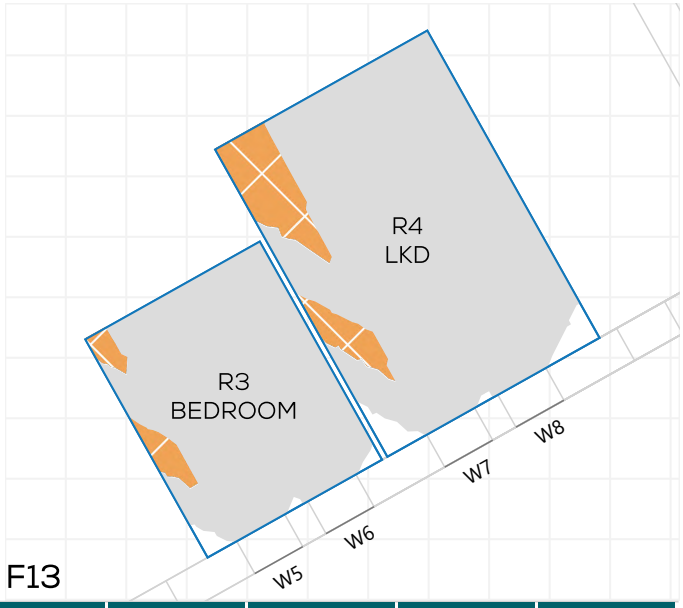
F12



F12



F13



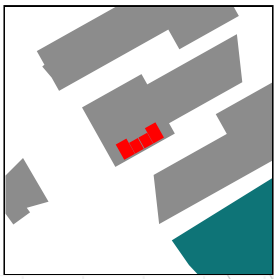
F13

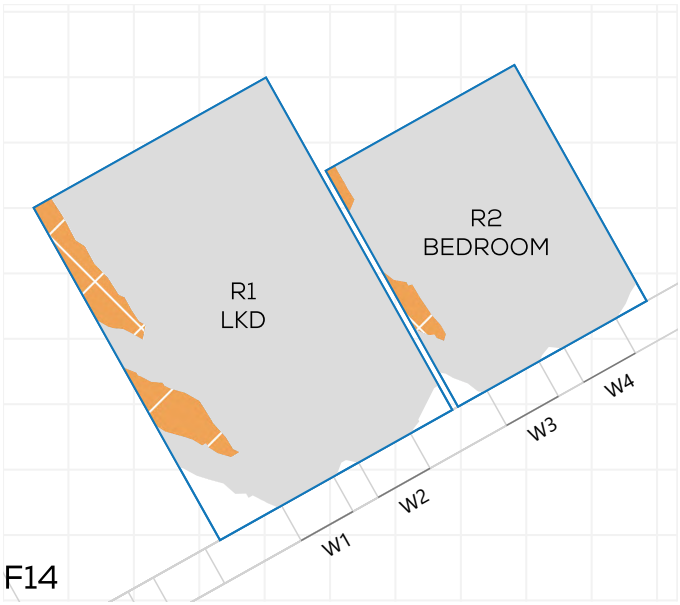
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F12	R1	RESIDENTIAL	LKD	23.7	96.4	89.2	1.7	7.5
F12	R2	RESIDENTIAL	BEDROOM	13.7	98.2	95	0.4	3.2
F12	R3	RESIDENTIAL	BEDROOM	13.7	98.1	92.8	0.7	5.3
F12	R4	RESIDENTIAL	LKD	23.4	96.8	86.2	2.5	11
F13	R1	RESIDENTIAL	LKD	23.7	96.4	89	1.8	7.7
F13	R2	RESIDENTIAL	BEDROOM	13.7	98.2	95	0.4	3.2
F13	R3	RESIDENTIAL	BEDROOM	13.7	98.1	92.9	0.7	5.3
F13	R4	RESIDENTIAL	LKD	23.4	96.9	86.2	2.5	11

NSL CONTOURS

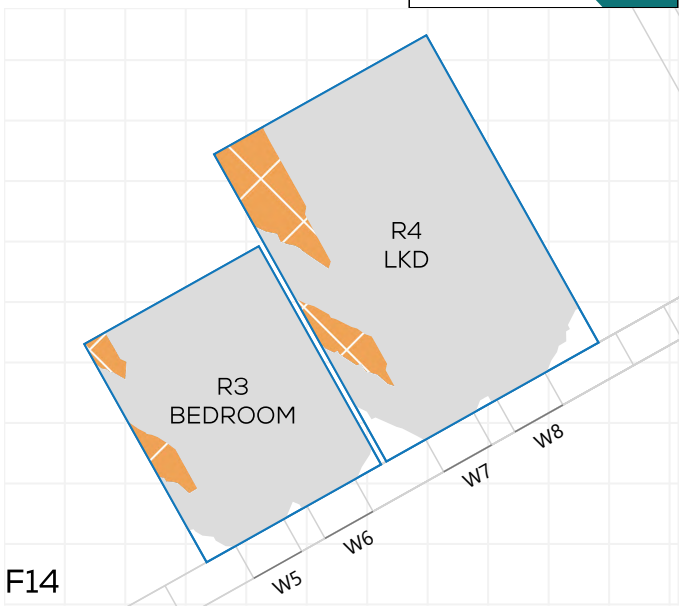
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD701

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

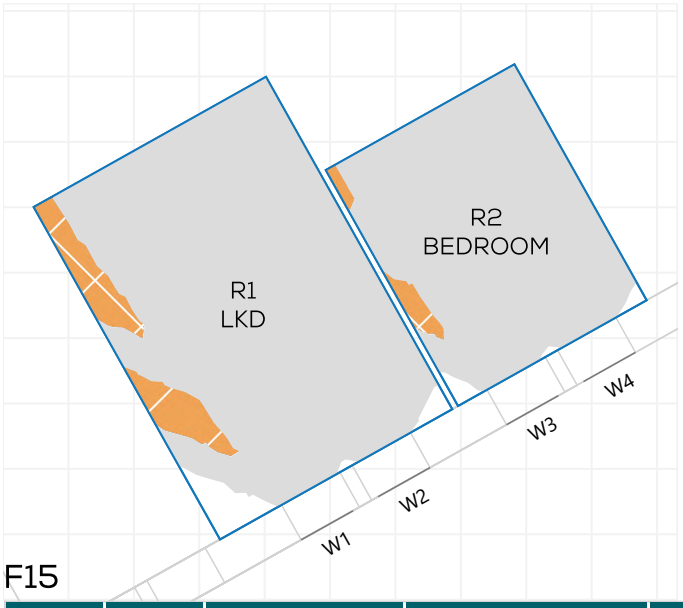




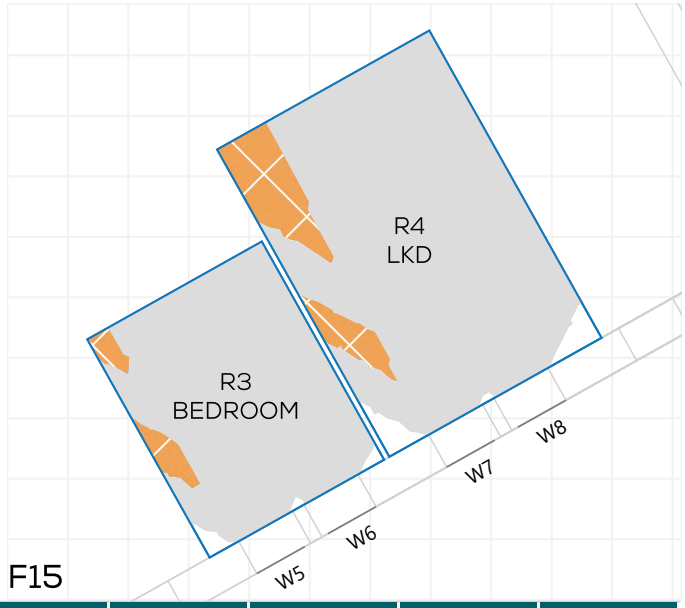
F14



F14



F15



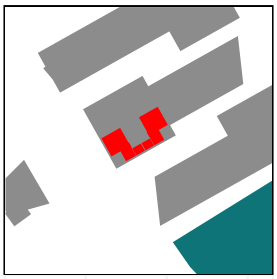
F15

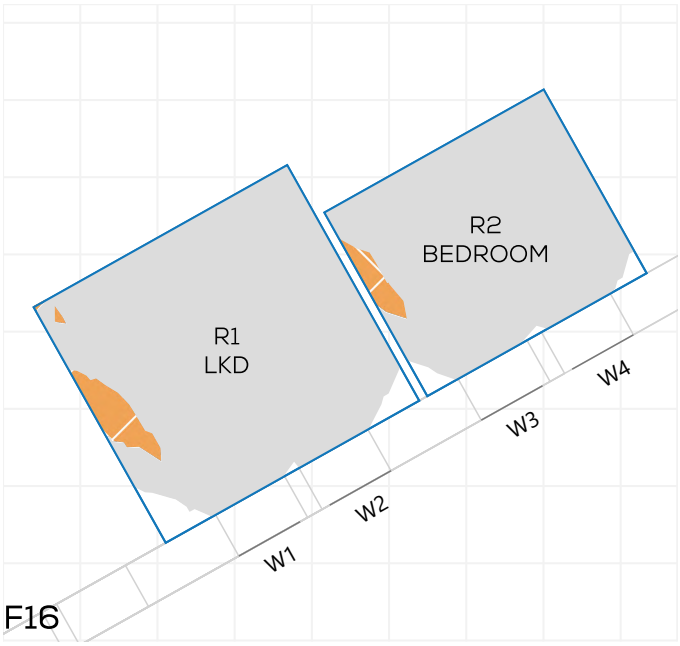
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F14	R1	RESIDENTIAL	LKD	23.7	96.4	88.8	1.8	7.9
F14	R2	RESIDENTIAL	BEDROOM	13.7	98.2	95	0.4	3.3
F14	R3	RESIDENTIAL	BEDROOM	13.7	98.1	92.9	0.7	5.3
F14	R4	RESIDENTIAL	LKD	23.4	96.9	86.1	2.5	11.1
F15	R1	RESIDENTIAL	LKD	23.7	96.4	88.8	1.8	7.9
F15	R2	RESIDENTIAL	BEDROOM	13.7	98.2	95	0.4	3.3
F15	R3	RESIDENTIAL	BEDROOM	13.7	98.1	92.9	0.7	5.3
F15	R4	RESIDENTIAL	LKD	23.4	97	86.2	2.5	11.1

NSL CONTOURS

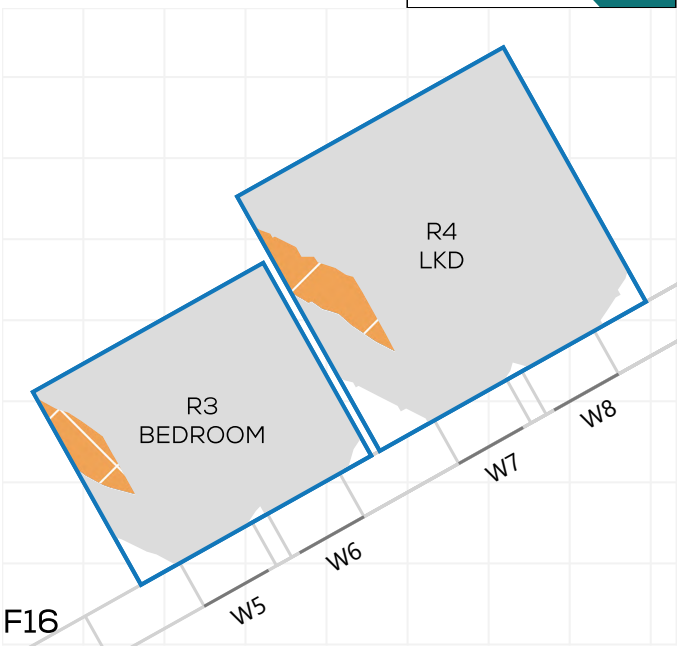
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 2
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD702

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F16



F16



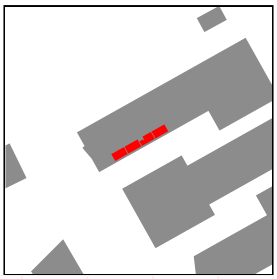
F17

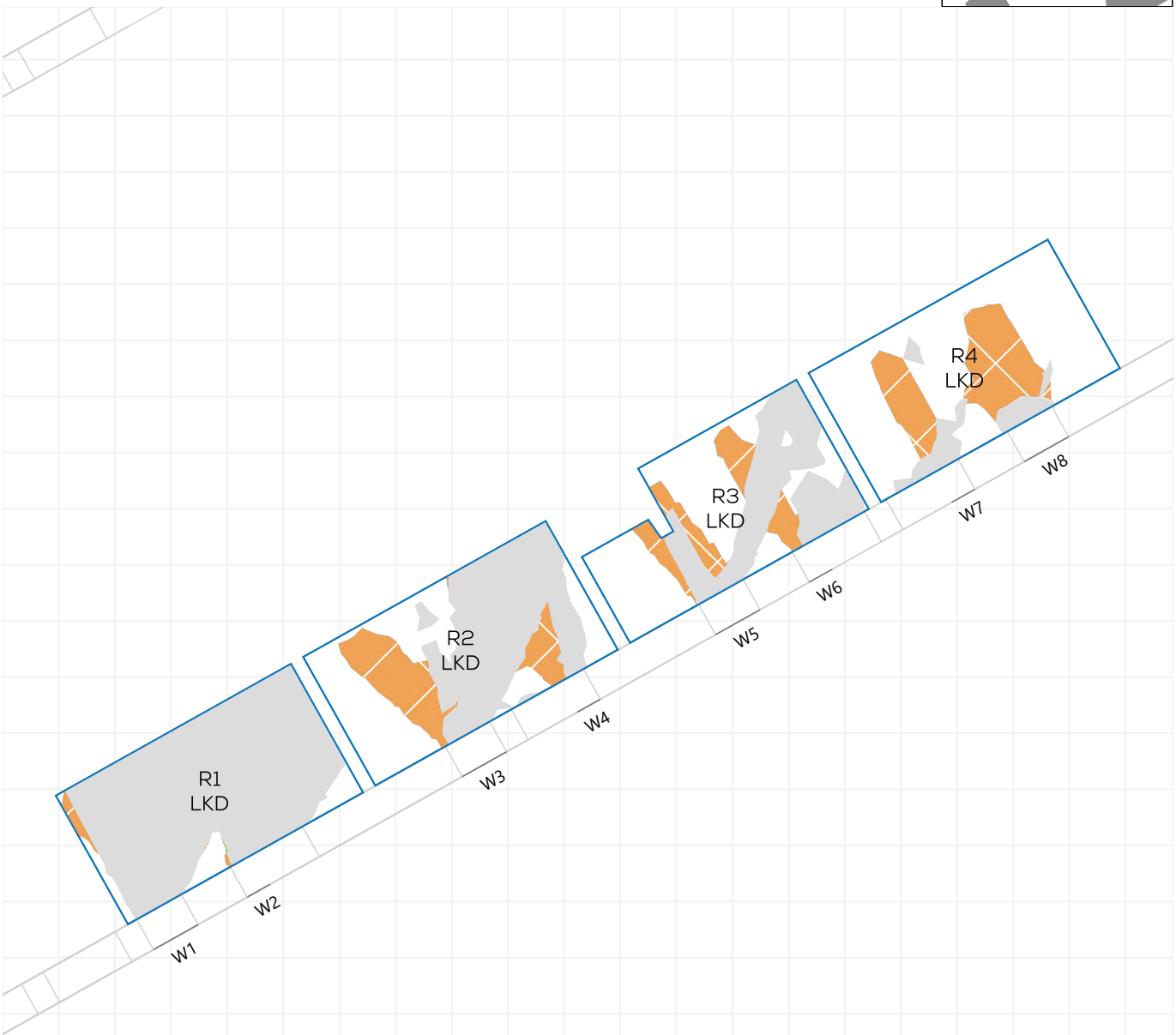
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 2								
F16	R1	RESIDENTIAL	LKD	13.2	96.3	92.3	0.5	4.1
F16	R2	RESIDENTIAL	BEDROOM	8.9	97.5	94.3	0.3	3.3
F16	R3	RESIDENTIAL	BEDROOM	8.9	97.2	91.8	0.5	5.6
F16	R4	RESIDENTIAL	LKD	13.5	95.9	90.4	0.7	5.7
F17	R1	RESIDENTIAL	LKD	63.8	100	100	0.0	0
F17	R2	RESIDENTIAL	LKD	63.8	99.2	93.9	3.4	5.3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD703

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





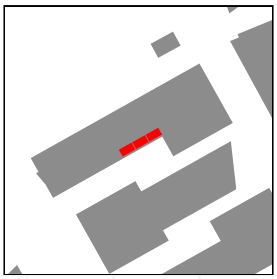
F00

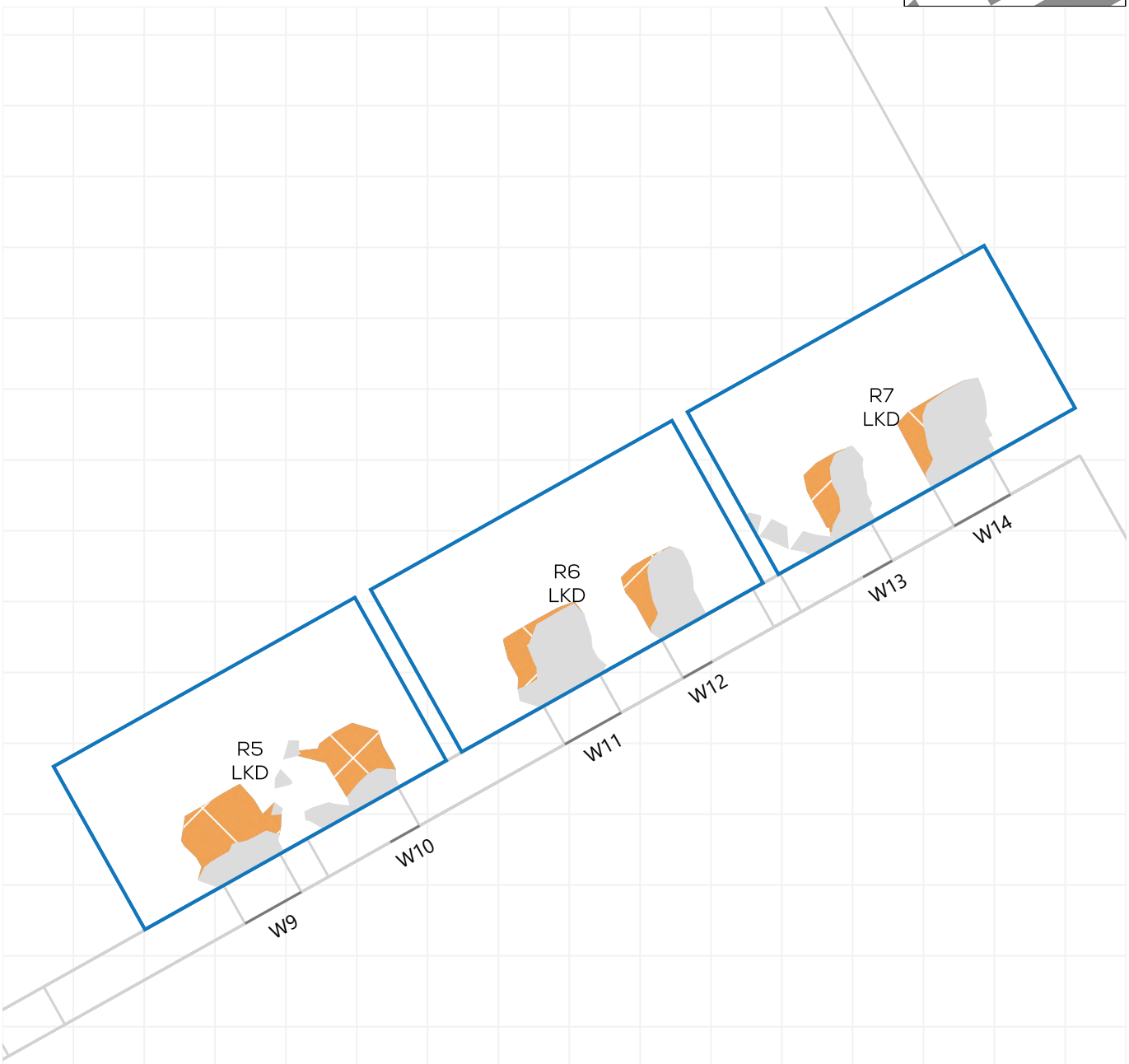
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F00	R1	RESIDENTIAL	LKD	12.6	92.3	90.9	0.2	1.5
F00	R2	RESIDENTIAL	LKD	13.0	63.9	45.8	2.4	28.3
F00	R3	RESIDENTIAL	LKD	11.3	53.2	38.3	1.7	28.1
F00	R4	RESIDENTIAL	LKD	12.8	32.4	9	3.0	72.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD704

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





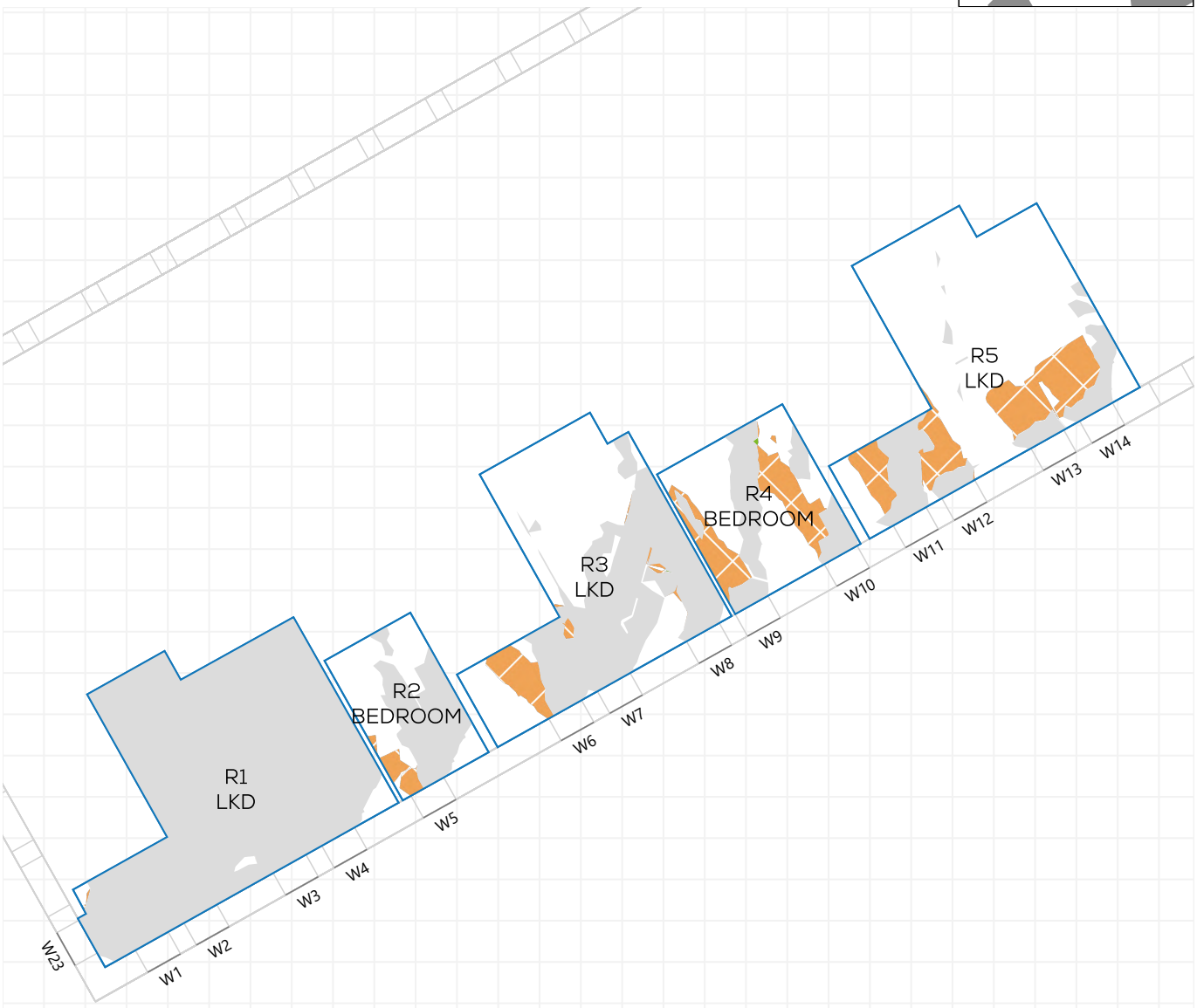
F00

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F00	R5	RESIDENTIAL	LKD	12.9	19.5	7.5	1.5	61.6
F00	R6	RESIDENTIAL	LKD	12.8	18	13.5	0.6	24.8
F00	R7	RESIDENTIAL	LKD	12.6	19.3	14.7	0.6	23.8

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD705

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



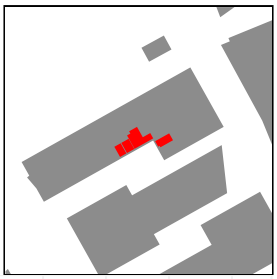
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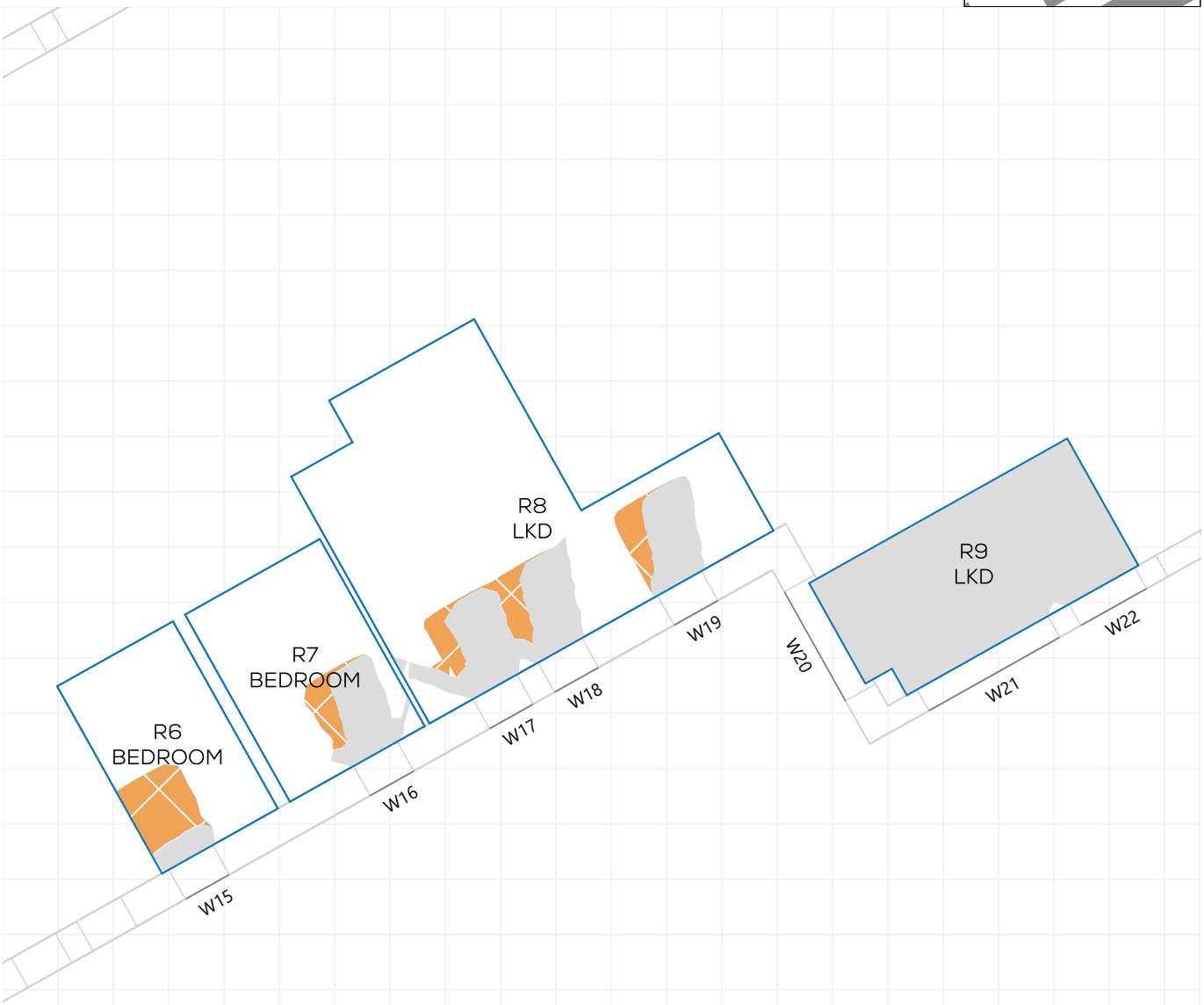
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F01	R1	RESIDENTIAL	LKD	34.7	97.8	97.8	0.0	0
F01	R2	RESIDENTIAL	BEDROOM	9.2	50.7	44.3	0.6	12.5
F01	R3	RESIDENTIAL	LKD	27.0	51.1	45.6	1.5	10.7
F01	R4	RESIDENTIAL	BEDROOM	13.5	53.7	31.3	3.0	41.8
F01	R5	RESIDENTIAL	LKD	32.1	31.4	14.9	5.3	52.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD706

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





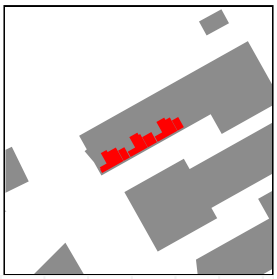
F01

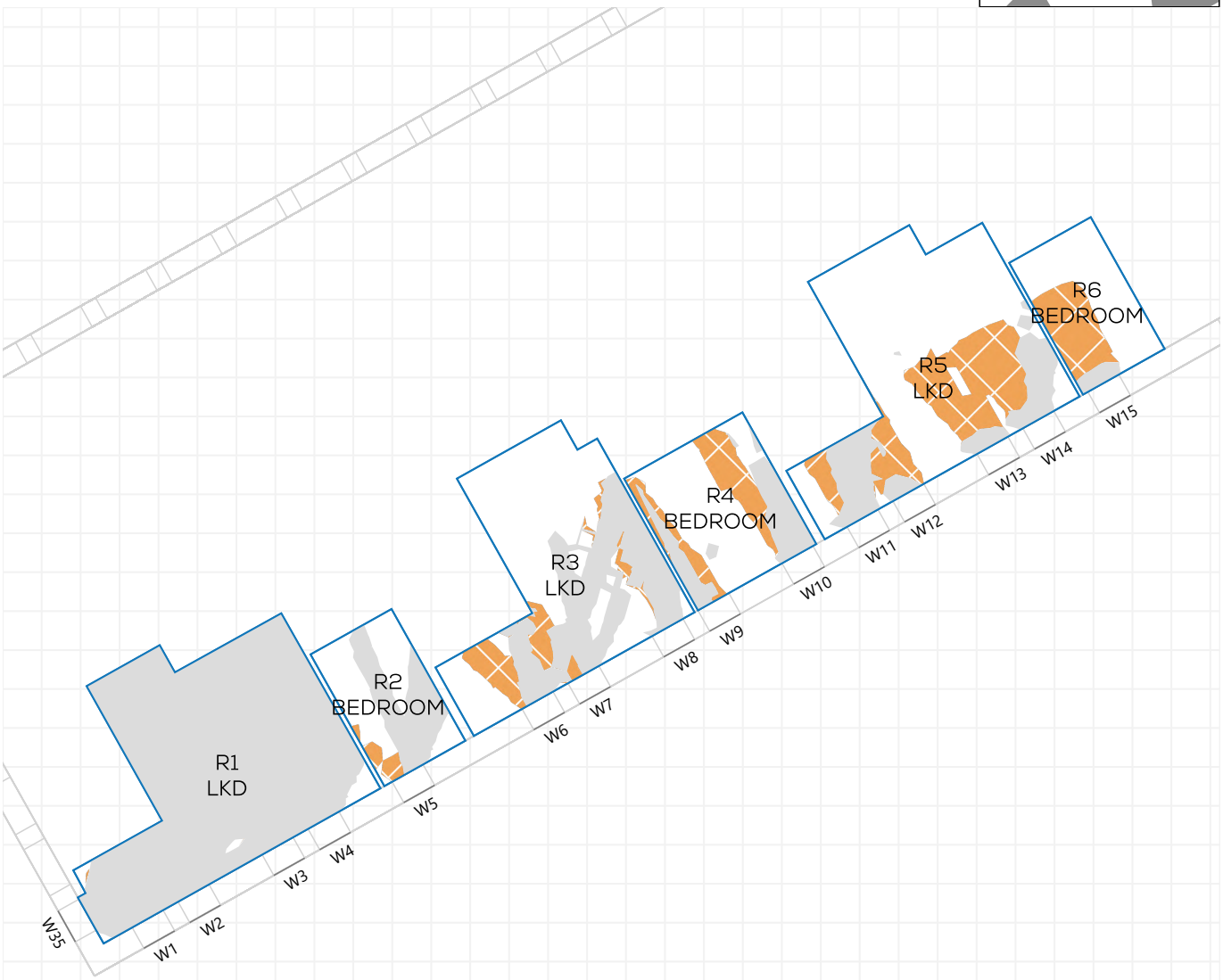
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F01	R6	RESIDENTIAL	BEDROOM	9.3	21.2	5.2	1.5	75.6
F01	R7	RESIDENTIAL	BEDROOM	10.8	20.7	15.6	0.6	24.8
F01	R8	RESIDENTIAL	LKD	30.2	23.6	18.1	1.7	23.4
F01	R9	RESIDENTIAL	LKD	13.7	99.8	99.8	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD707

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F02

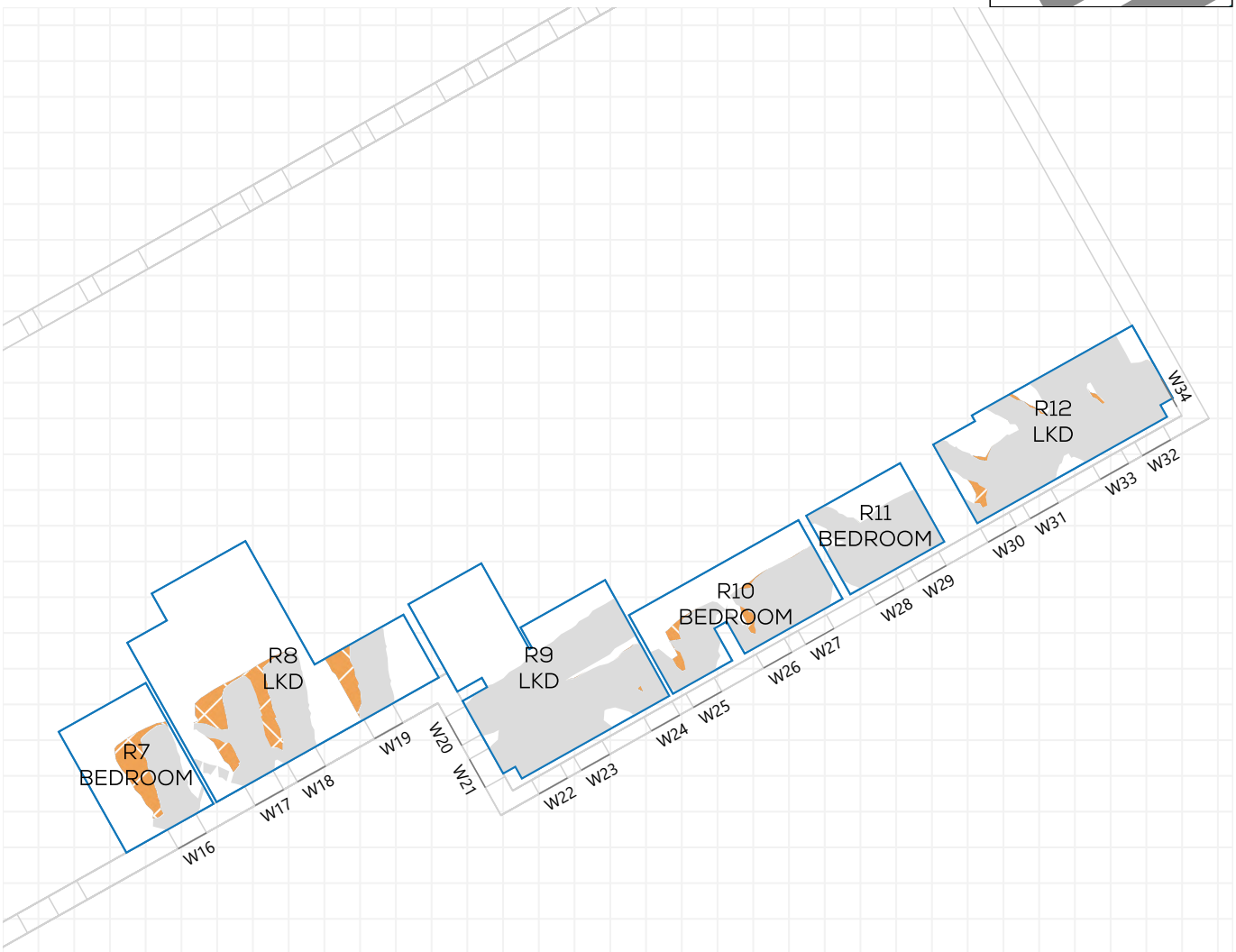
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F02	R1	RESIDENTIAL	LKD	34.7	97.9	97.8	0.0	0
F02	R2	RESIDENTIAL	BEDROOM	9.2	47.5	41.5	0.6	12.7
F02	R3	RESIDENTIAL	LKD	27.0	45.9	36.3	2.6	20.9
F02	R4	RESIDENTIAL	BEDROOM	13.5	47.8	24.8	3.1	48.1
F02	R5	RESIDENTIAL	LKD	32.1	40.4	16.8	7.6	58.5
F02	R6	RESIDENTIAL	BEDROOM	9.3	36.1	5.2	2.9	85.5

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD708

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





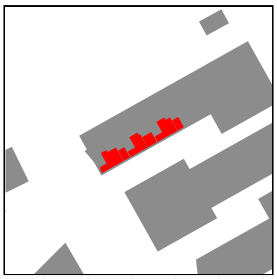
F02

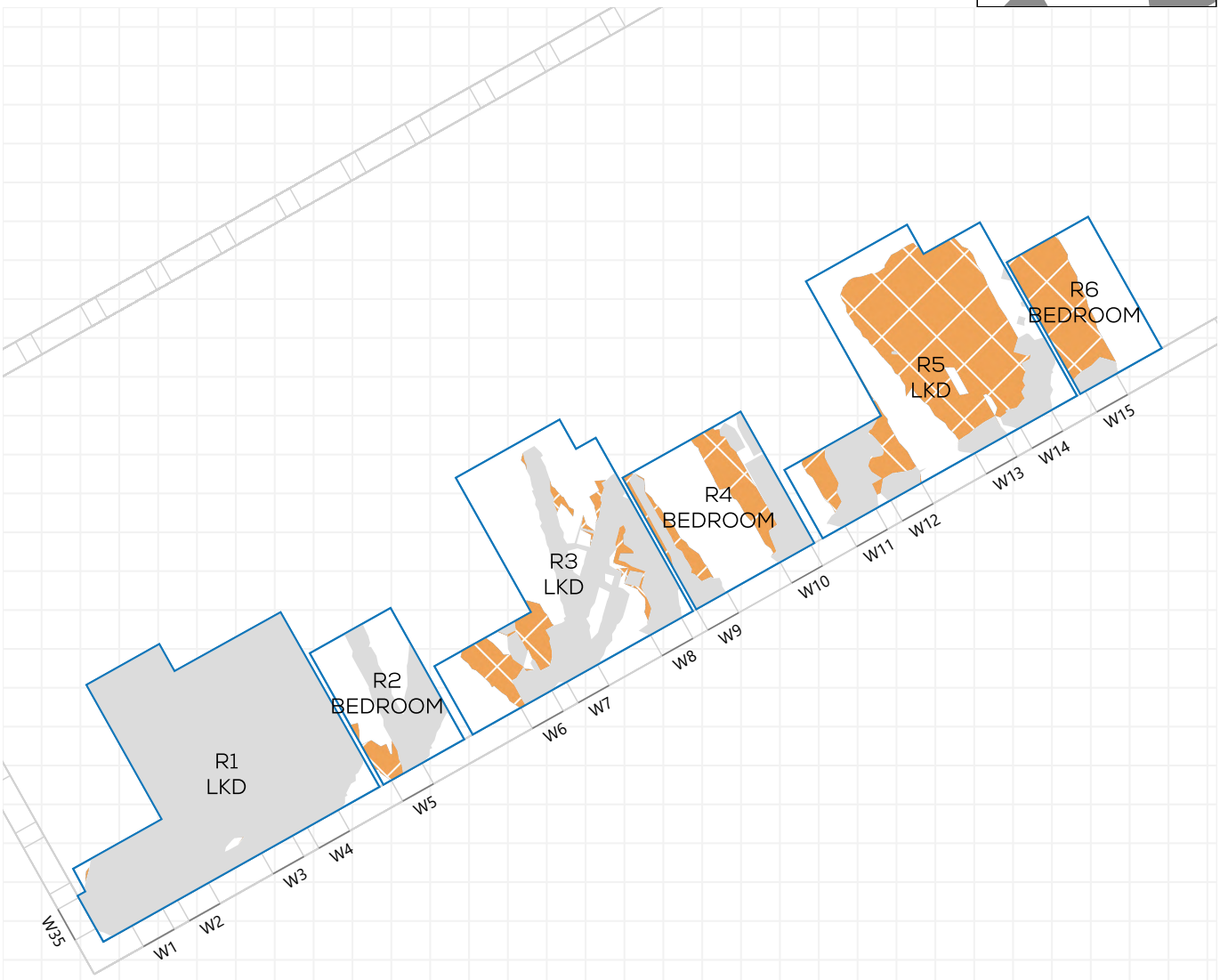
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F02	R7	RESIDENTIAL	BEDROOM	10.8	37.3	24.2	1.4	35.3
F02	R8	RESIDENTIAL	LKD	30.2	36.8	27.2	2.9	26.2
F02	R9	RESIDENTIAL	LKD	23.5	59.1	59	0.0	0.1
F02	R10	RESIDENTIAL	BEDROOM	13.3	58.5	54.8	0.5	6.4
F02	R11	RESIDENTIAL	BEDROOM	7.6	72.3	72.3	0.0	0
F02	R12	RESIDENTIAL	LKD	17.1	82.6	80.6	0.3	2.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD709

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F03

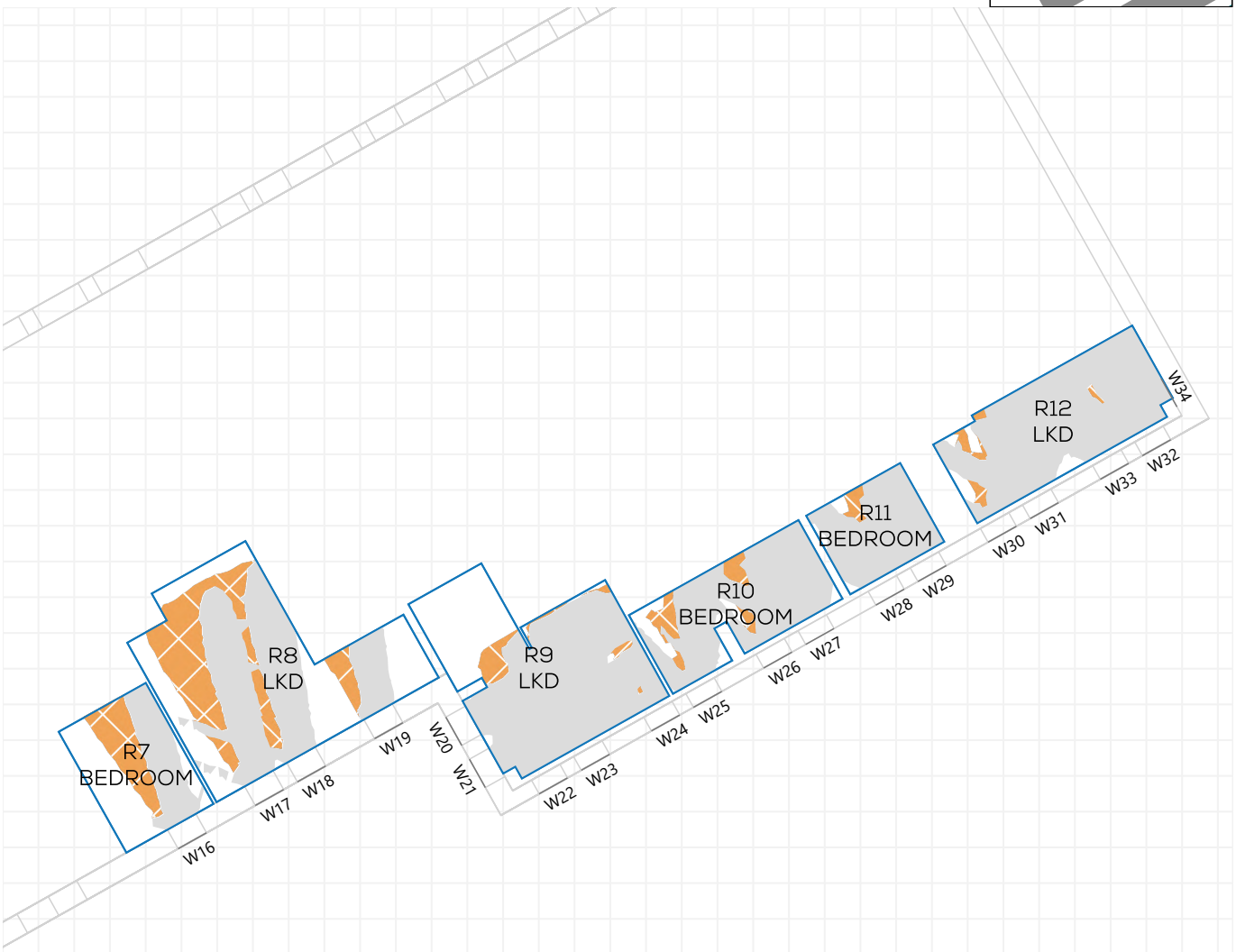
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F03	R1	RESIDENTIAL	LKD	34.7	97.9	97.8	0.0	0
F03	R2	RESIDENTIAL	BEDROOM	9.2	48.9	41.7	0.7	14.8
F03	R3	RESIDENTIAL	LKD	27.0	50.5	38.6	3.2	23.6
F03	R4	RESIDENTIAL	BEDROOM	13.5	50.6	28.1	3.0	44.5
F03	R5	RESIDENTIAL	LKD	32.1	68	17.4	16.2	74.4
F03	R6	RESIDENTIAL	BEDROOM	9.3	54.3	5.9	4.5	89.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD710

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





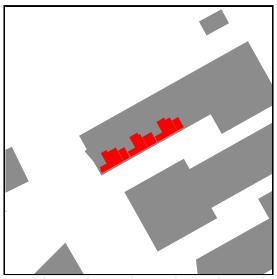
F03

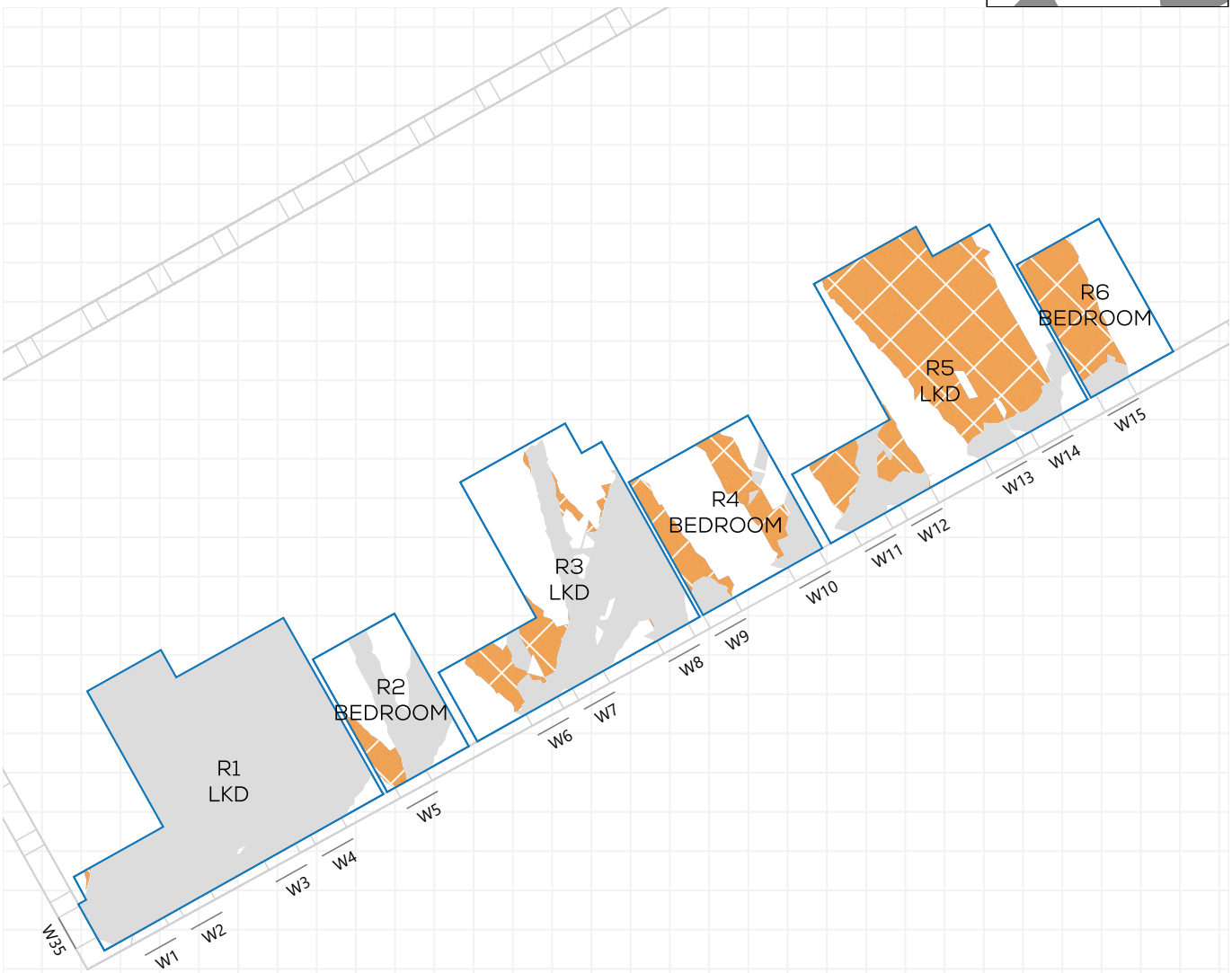
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F03	R7	RESIDENTIAL	BEDROOM	10.8	58.3	34.3	2.6	41.2
F03	R8	RESIDENTIAL	LKD	30.2	70.1	45.5	7.4	35.1
F03	R9	RESIDENTIAL	LKD	23.5	74.8	70.1	1.1	6.3
F03	R10	RESIDENTIAL	BEDROOM	13.3	90.5	80.5	1.3	11.1
F03	R11	RESIDENTIAL	BEDROOM	7.6	95.4	90.1	0.4	5.5
F03	R12	RESIDENTIAL	LKD	17.1	95	91.2	0.7	4.1

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD711

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





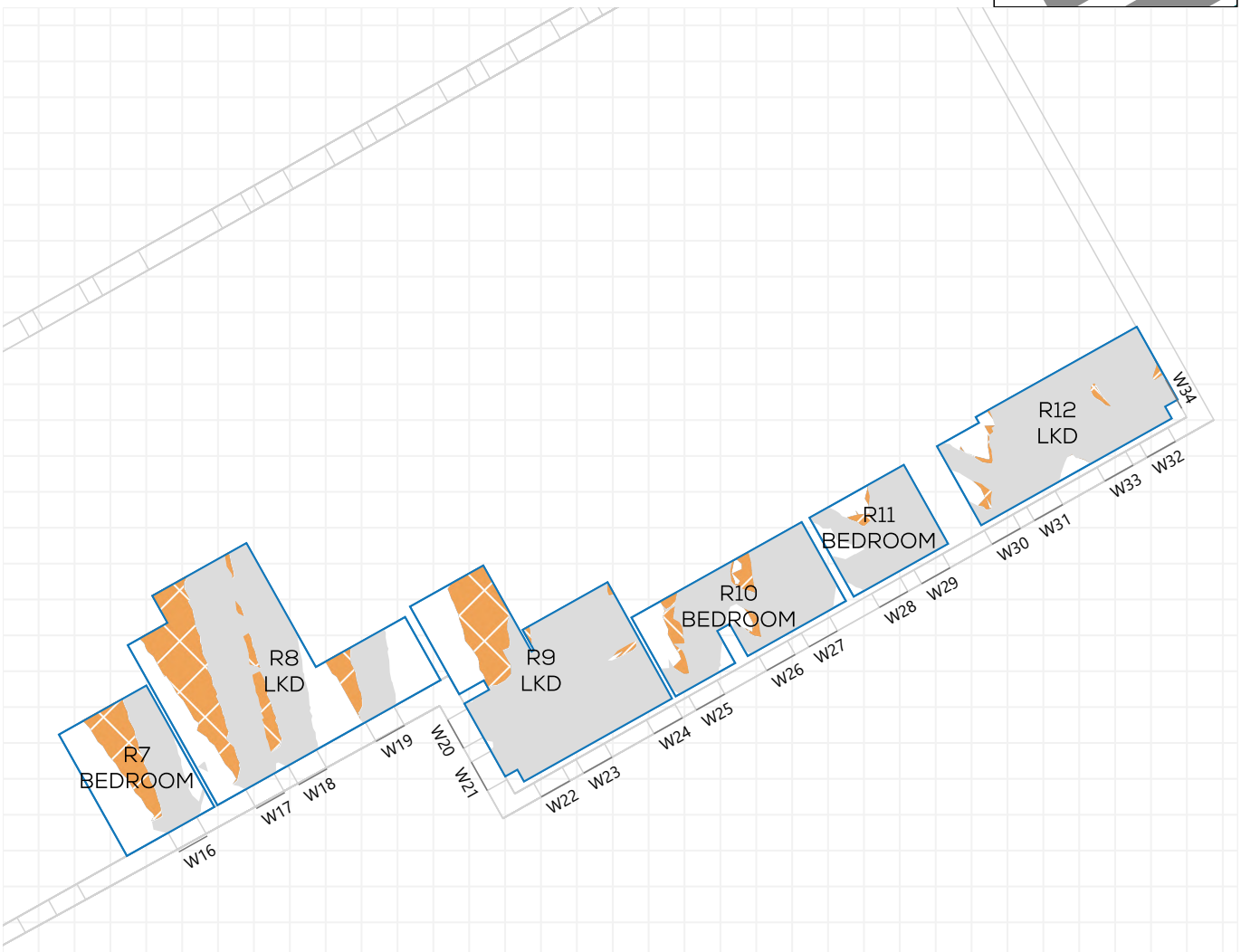
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F04	R1	RESIDENTIAL	LKD	34.7	98.5	98.4	0.0	0.1
F04	R2	RESIDENTIAL	BEDROOM	9.2	54.6	43.7	1.0	20
F04	R3	RESIDENTIAL	LKD	27.0	56.2	45	3.0	19.9
F04	R4	RESIDENTIAL	BEDROOM	13.5	44.8	15	4.0	66.4
F04	R5	RESIDENTIAL	LKD	32.1	73.5	14.2	19.1	80.7
F04	R6	RESIDENTIAL	BEDROOM	9.3	54.6	6.5	4.5	88

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD712

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



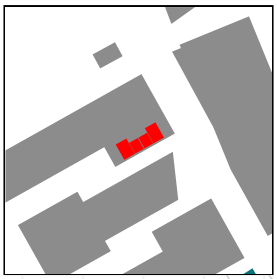
F04

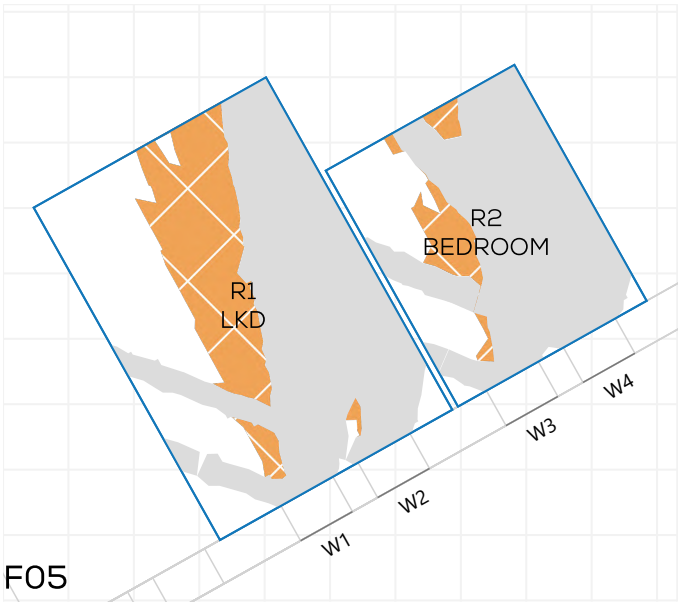
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F04	R7	RESIDENTIAL	BEDROOM	10.8	58.6	35.4	2.5	39.6
F04	R8	RESIDENTIAL	LKD	30.2	74.7	51.8	6.9	30.6
F04	R9	RESIDENTIAL	LKD	23.5	87.8	72.2	3.7	17.8
F04	R10	RESIDENTIAL	BEDROOM	13.3	84.7	75.6	1.2	10.8
F04	R11	RESIDENTIAL	BEDROOM	7.6	84.8	82.6	0.2	2.7
F04	R12	RESIDENTIAL	LKD	17.1	90.6	87.7	0.5	3.1

NSL CONTOURS

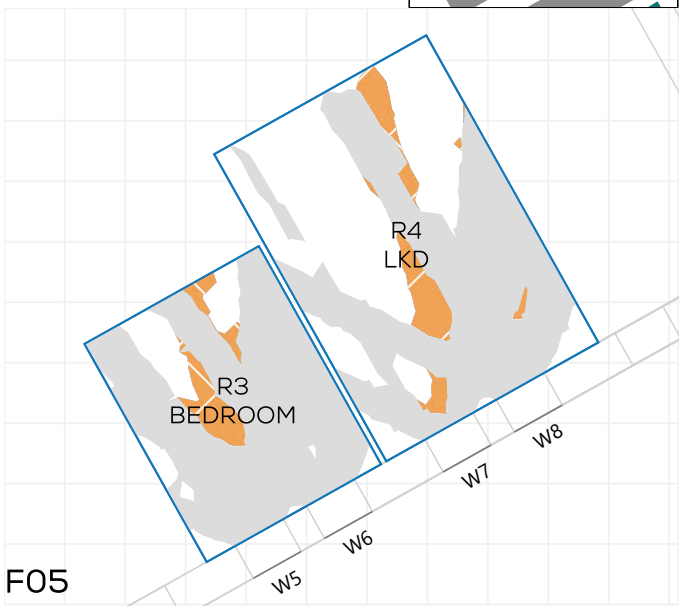
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD713

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

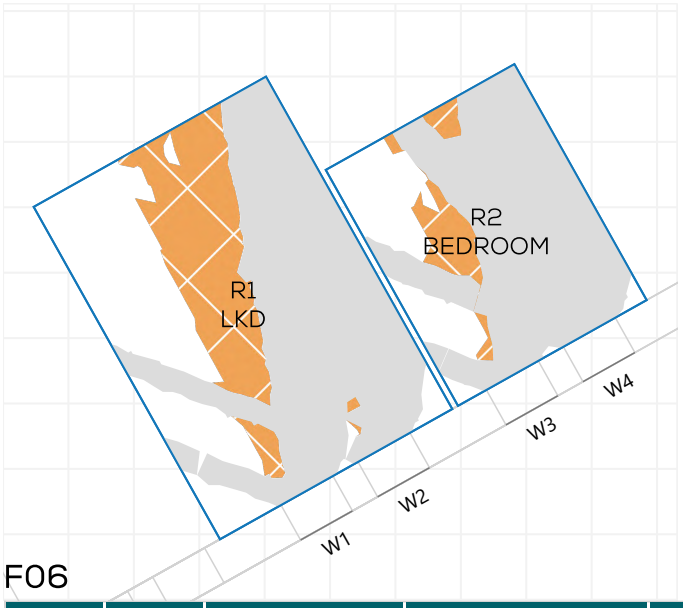




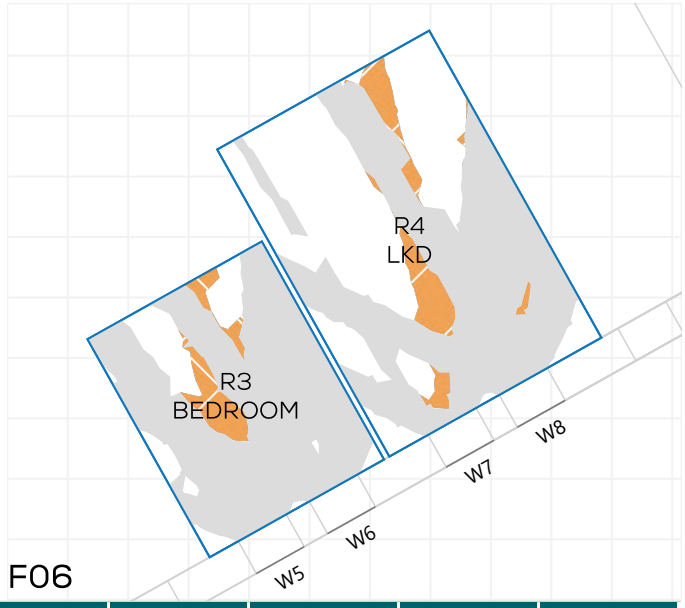
F05



F05



F06



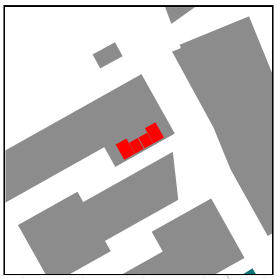
F06

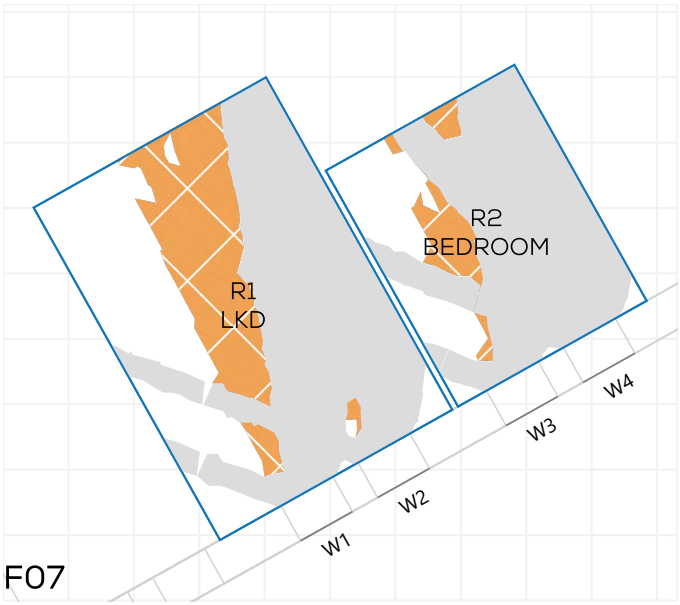
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F05	R1	RESIDENTIAL	LKD	23.7	71.3	50.1	5.0	29.7
F05	R2	RESIDENTIAL	BEDROOM	13.7	78.6	69.6	1.2	11.5
F05	R3	RESIDENTIAL	BEDROOM	13.7	85.5	78.5	1.0	8.3
F05	R4	RESIDENTIAL	LKD	23.4	56.7	50.2	1.5	11.6
F06	R1	RESIDENTIAL	LKD	23.7	71.7	50.3	5.1	29.9
F06	R2	RESIDENTIAL	BEDROOM	13.7	78.7	69.7	1.2	11.4
F06	R3	RESIDENTIAL	BEDROOM	13.7	85.3	78.3	1.0	8.3
F06	R4	RESIDENTIAL	LKD	23.4	57.1	50.4	1.6	11.7

NSL CONTOURS

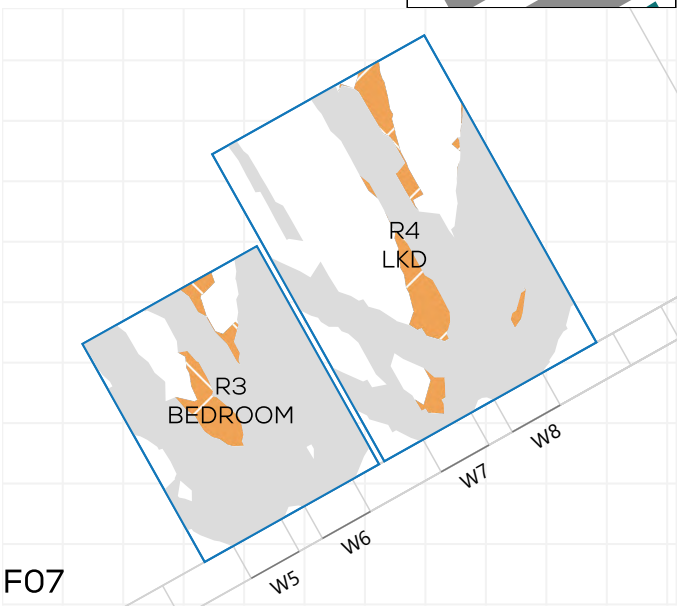
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD714

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

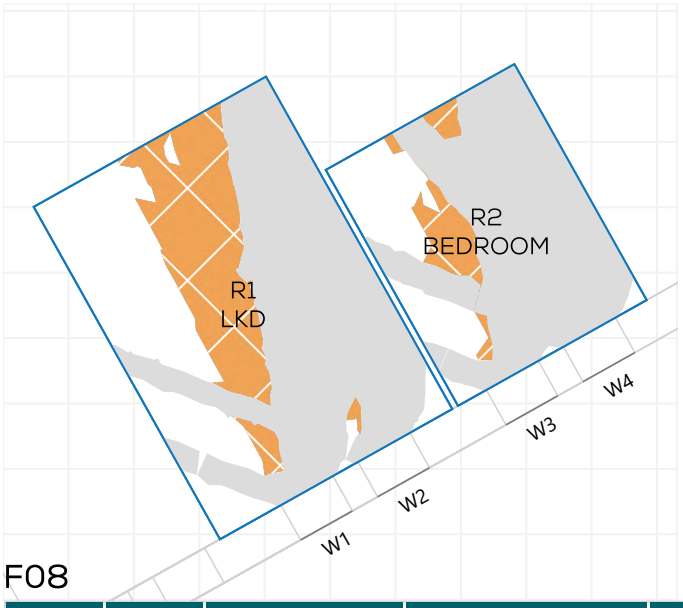




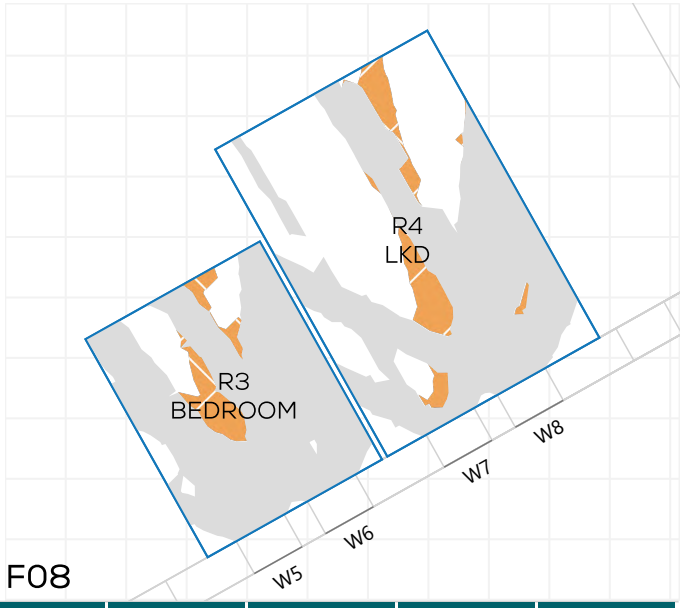
F07



F07



F08



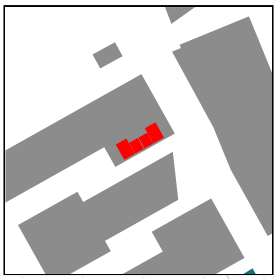
F08

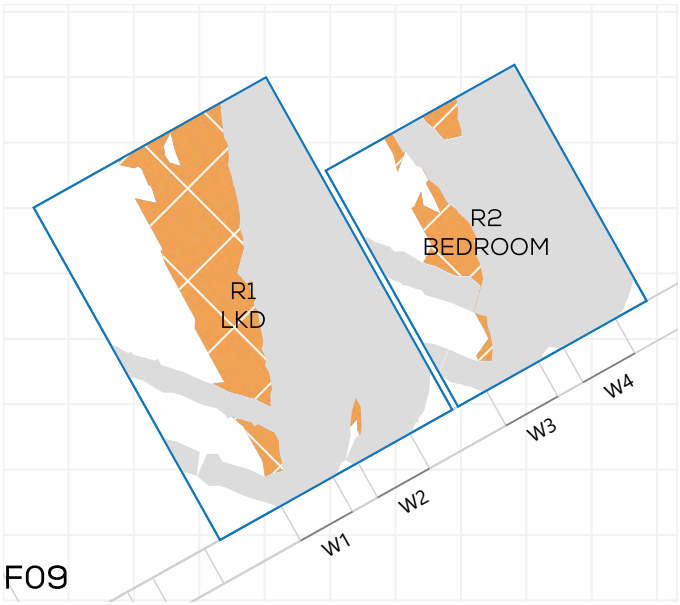
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F07	R1	RESIDENTIAL	LKD	23.7	71.8	50.3	5.1	29.9
F07	R2	RESIDENTIAL	BEDROOM	13.7	78.7	69.8	1.2	11.4
F07	R3	RESIDENTIAL	BEDROOM	13.7	85.3	78.4	0.9	8.1
F07	R4	RESIDENTIAL	LKD	23.4	57.2	50.4	1.6	11.9
F08	R1	RESIDENTIAL	LKD	23.7	71.8	50.4	5.1	29.8
F08	R2	RESIDENTIAL	BEDROOM	13.7	78.8	69.9	1.2	11.3
F08	R3	RESIDENTIAL	BEDROOM	13.7	85.6	78.5	1.0	8.3
F08	R4	RESIDENTIAL	LKD	23.4	57.2	50.6	1.6	11.6

NSL CONTOURS

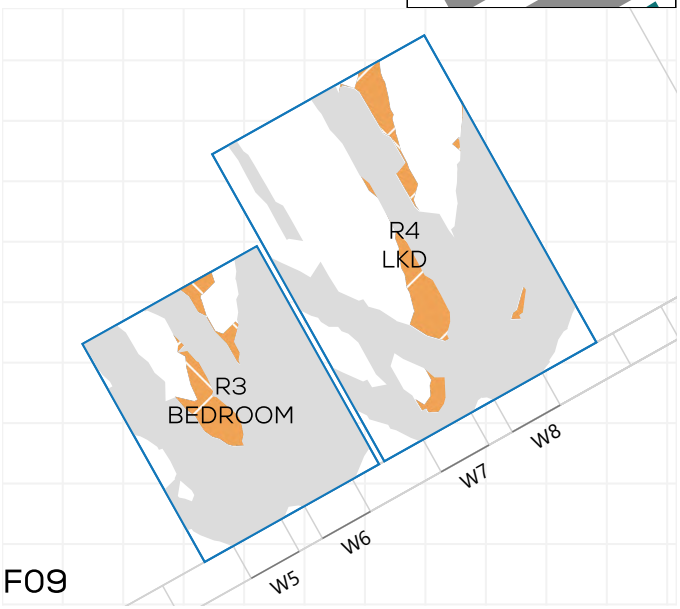
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD715

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

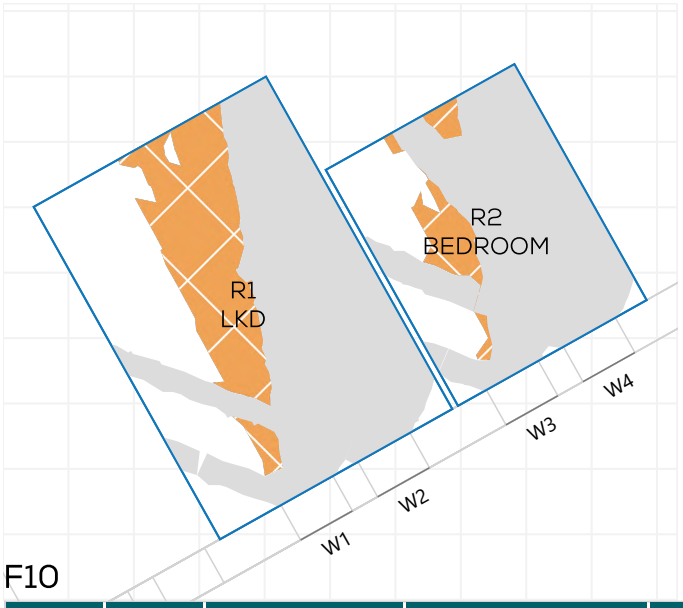




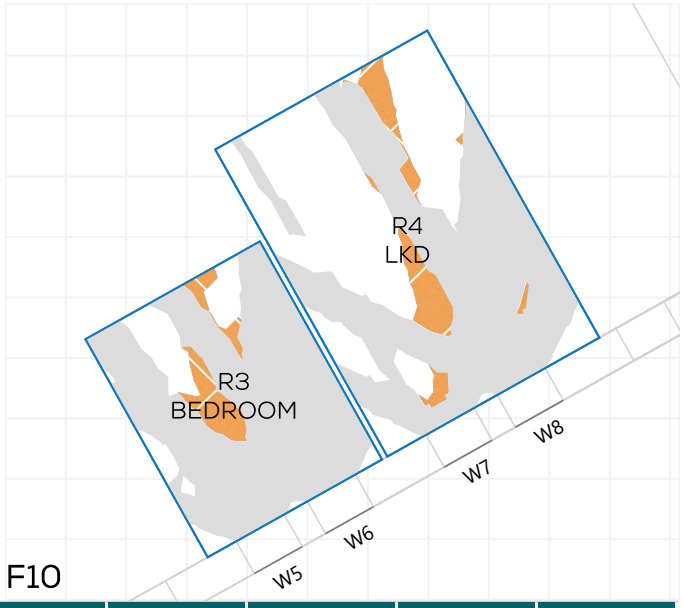
F09



F09



F10



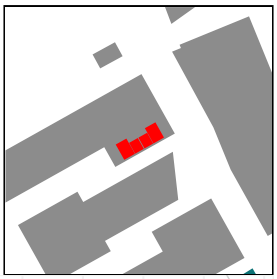
F10

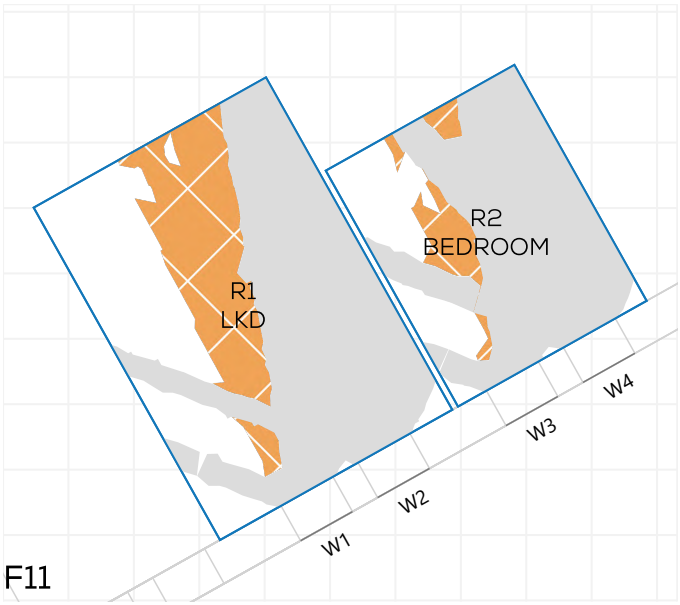
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F09	R1	RESIDENTIAL	LKD	23.7	72.1	50.8	5.1	29.6
F09	R2	RESIDENTIAL	BEDROOM	13.7	79	69.9	1.2	11.5
F09	R3	RESIDENTIAL	BEDROOM	13.7	85.4	78.4	1.0	8.3
F09	R4	RESIDENTIAL	LKD	23.4	57.2	50.6	1.5	11.6
F10	R1	RESIDENTIAL	LKD	23.7	72.4	51.2	5.0	29.2
F10	R2	RESIDENTIAL	BEDROOM	13.7	78.8	69.9	1.2	11.3
F10	R3	RESIDENTIAL	BEDROOM	13.7	85.5	78.5	1.0	8.1
F10	R4	RESIDENTIAL	LKD	23.4	57.1	50.6	1.5	11.4

NSL CONTOURS

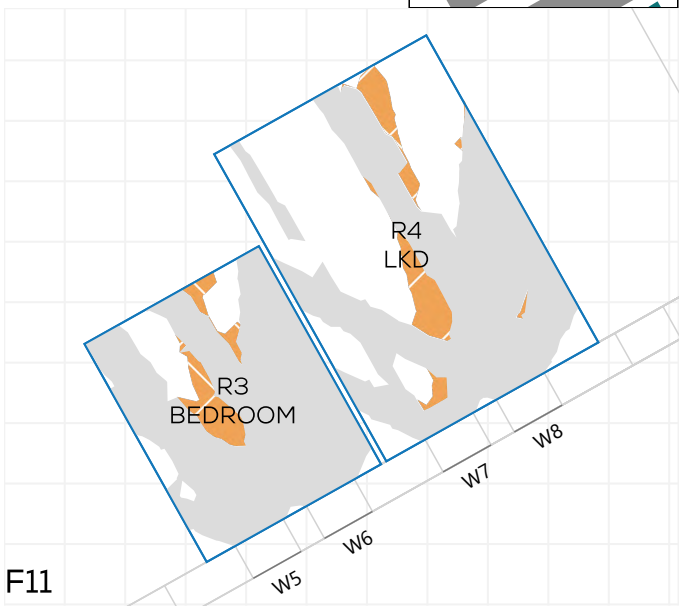
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD716

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

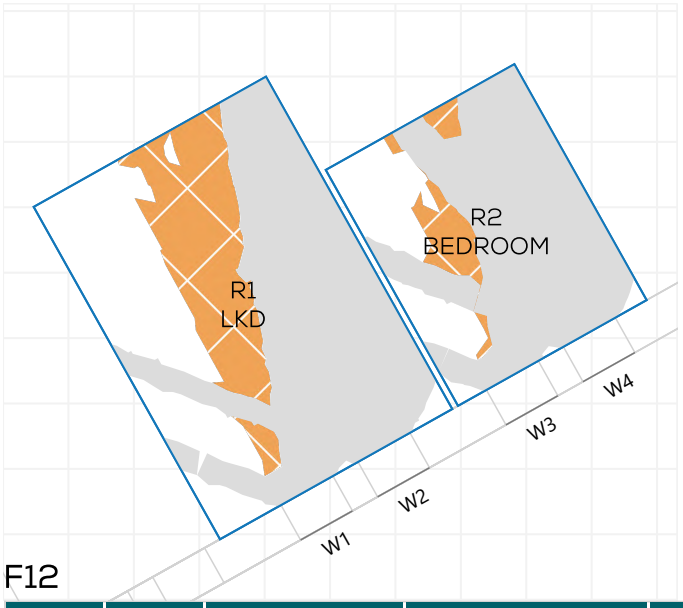




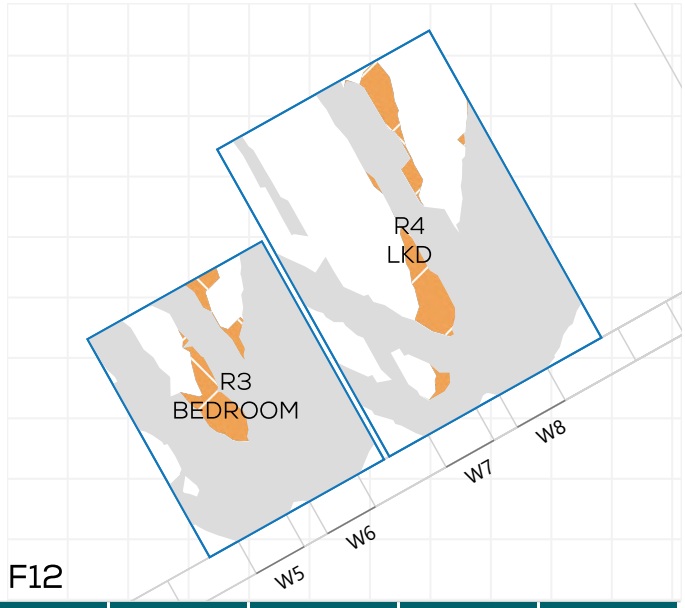
F11



F11



F12



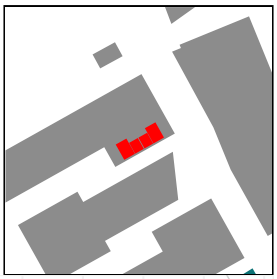
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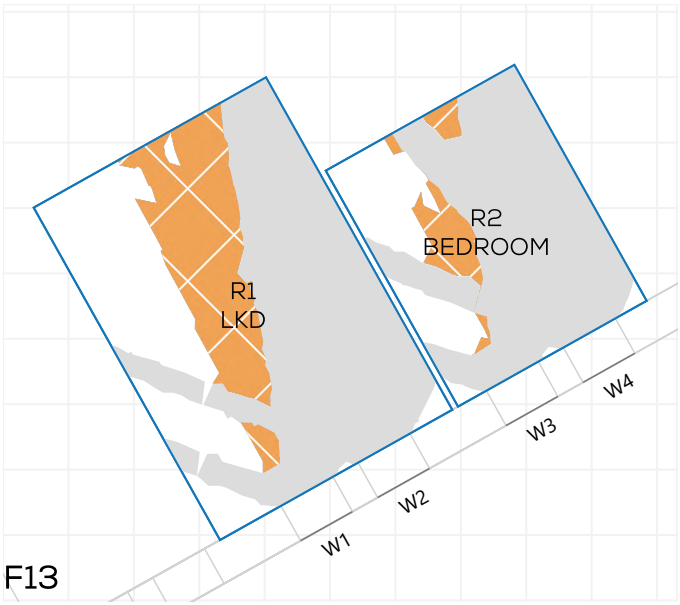
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F11	R1	RESIDENTIAL	LKD	23.7	72.4	51.3	5.0	29.2
F11	R2	RESIDENTIAL	BEDROOM	13.7	79	69.9	1.2	11.5
F11	R3	RESIDENTIAL	BEDROOM	13.7	85.4	78.4	1.0	8.3
F11	R4	RESIDENTIAL	LKD	23.4	57.1	50.9	1.5	10.9
F12	R1	RESIDENTIAL	LKD	23.7	72.4	51.3	5.0	29.2
F12	R2	RESIDENTIAL	BEDROOM	13.7	78.9	70.1	1.2	11.1
F12	R3	RESIDENTIAL	BEDROOM	13.7	85.4	78.4	1.0	8.3
F12	R4	RESIDENTIAL	LKD	23.4	57.1	51.2	1.4	10.4

NSL CONTOURS

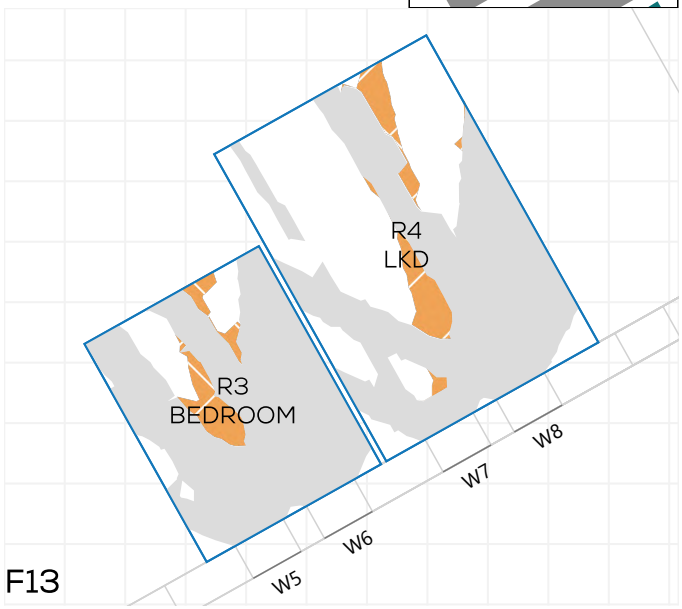
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD717

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

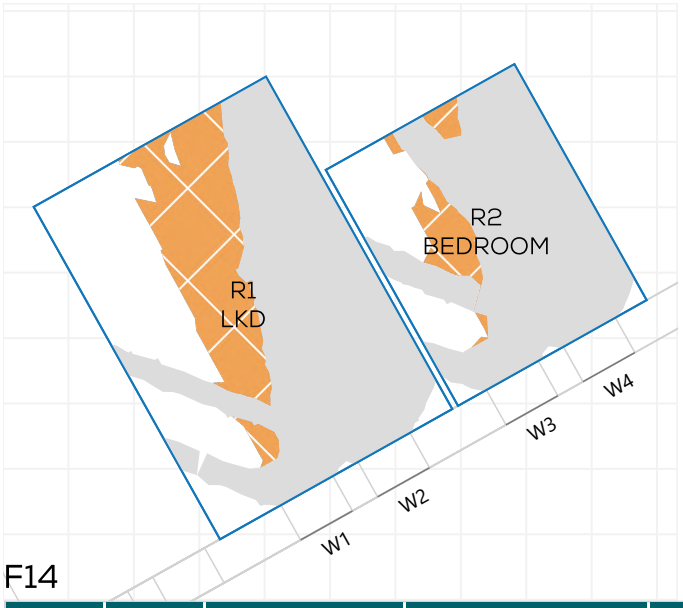




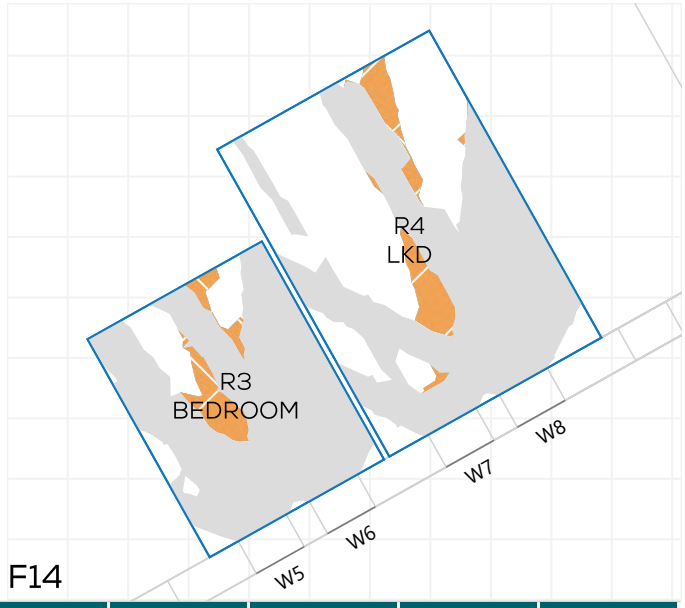
F13



F13



F14



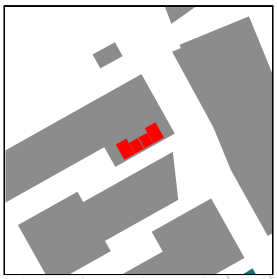
F14

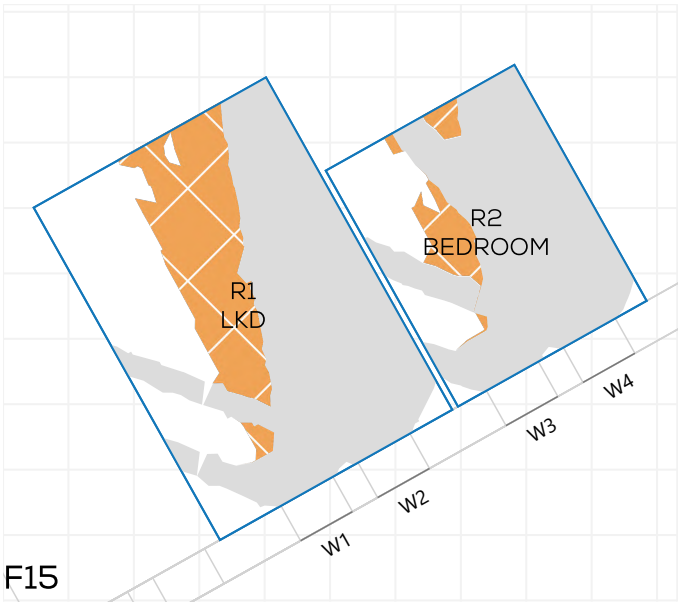
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F13	R1	RESIDENTIAL	LKD	23.7	72.5	51.4	5.0	29
F13	R2	RESIDENTIAL	BEDROOM	13.7	79.2	70.4	1.2	11
F13	R3	RESIDENTIAL	BEDROOM	13.7	85.7	78.6	1.0	8.3
F13	R4	RESIDENTIAL	LKD	23.4	57.4	51.5	1.4	10.4
F14	R1	RESIDENTIAL	LKD	23.7	72.5	51.6	5.0	28.9
F14	R2	RESIDENTIAL	BEDROOM	13.7	79.4	70.8	1.2	10.8
F14	R3	RESIDENTIAL	BEDROOM	13.7	85.5	78.4	1.0	8.3
F14	R4	RESIDENTIAL	LKD	23.4	57.4	51.5	1.4	10.4

NSL CONTOURS

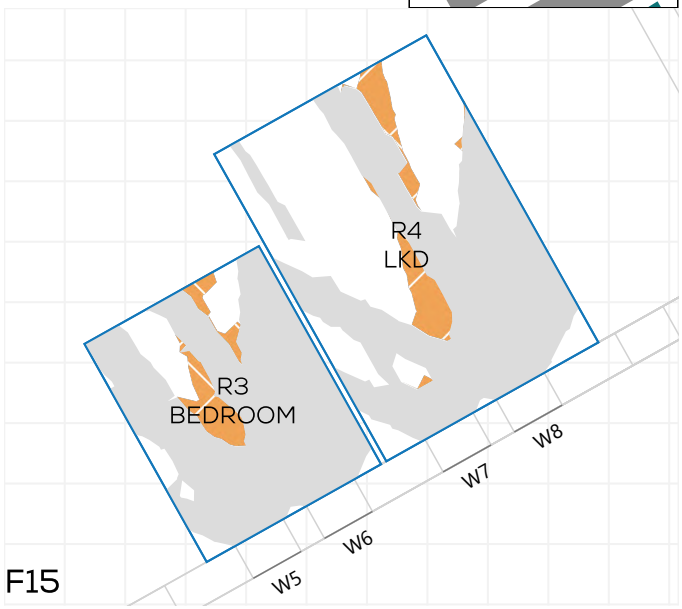
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD718

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

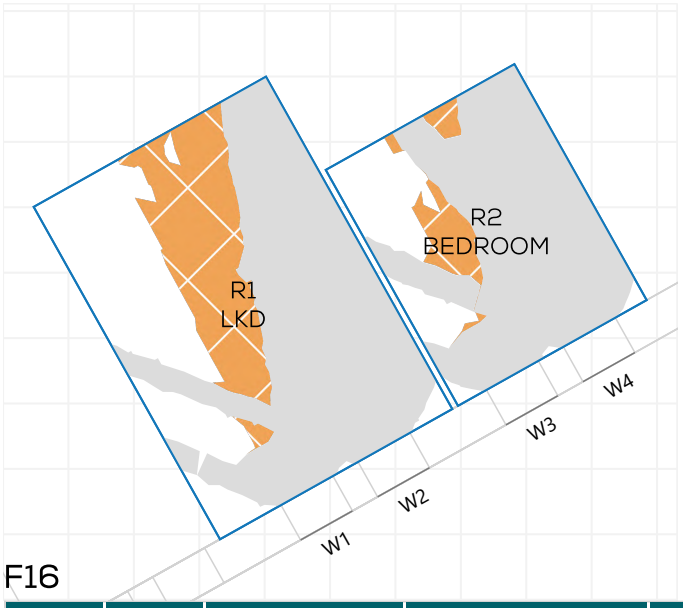




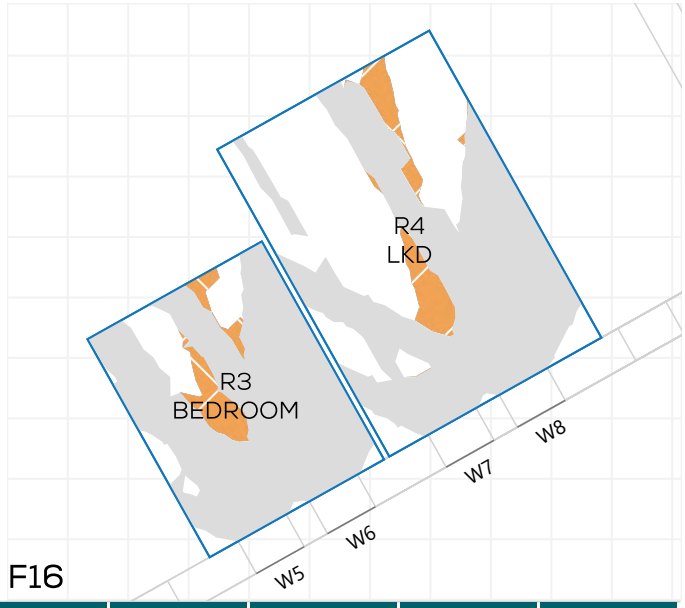
F15



F15



F16



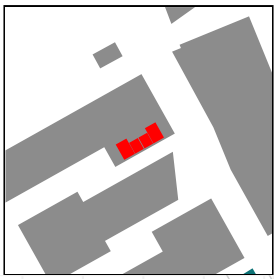
F16

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F15	R1	RESIDENTIAL	LKD	23.7	72.7	52	4.9	28.5
F15	R2	RESIDENTIAL	BEDROOM	13.7	79.8	71.3	1.2	10.6
F15	R3	RESIDENTIAL	BEDROOM	13.7	85.8	78.7	1.0	8.3
F15	R4	RESIDENTIAL	LKD	23.4	57.6	51.8	1.4	10
F16	R1	RESIDENTIAL	LKD	23.7	72.9	52.4	4.9	28.1
F16	R2	RESIDENTIAL	BEDROOM	13.7	80.5	72	1.2	10.5
F16	R3	RESIDENTIAL	BEDROOM	13.7	85.5	78.5	1.0	8.3
F16	R4	RESIDENTIAL	LKD	23.4	57.9	52.2	1.3	9.9

NSL CONTOURS

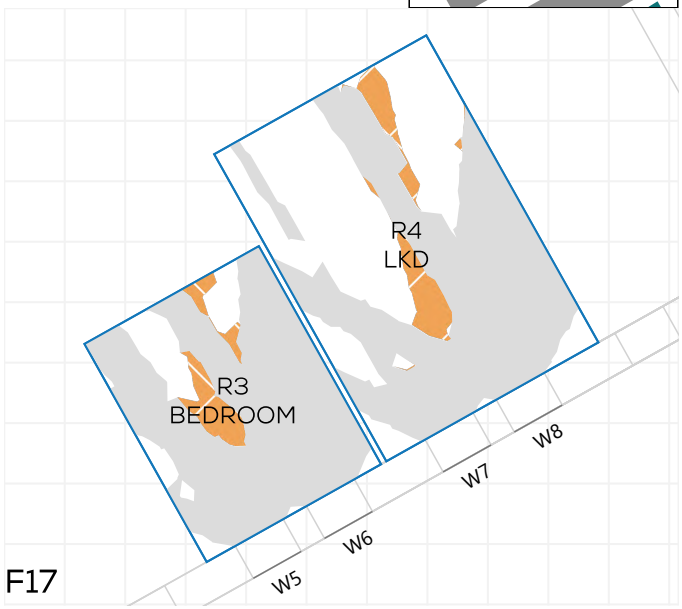
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD719

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





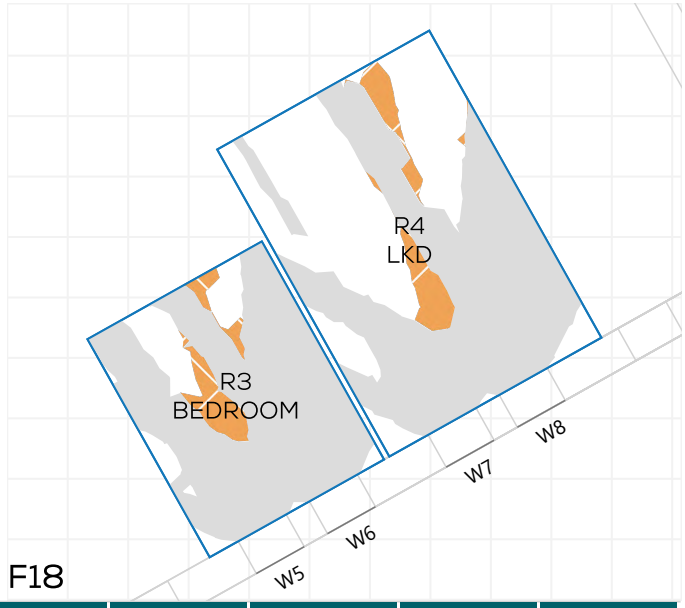
F17



F17



F18



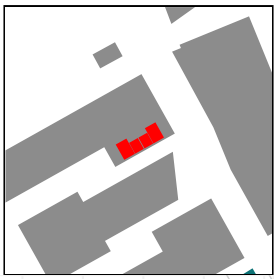
F18

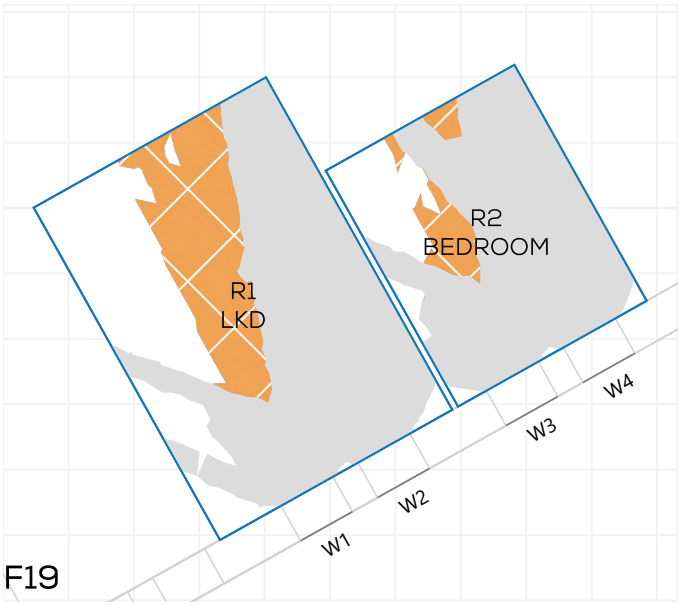
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F17	R1	RESIDENTIAL	LKD	23.7	73.3	53.1	4.8	27.5
F17	R2	RESIDENTIAL	BEDROOM	13.7	81.4	73.1	1.1	10.1
F17	R3	RESIDENTIAL	BEDROOM	13.7	85.5	78.6	0.9	8.1
F17	R4	RESIDENTIAL	LKD	23.4	58.2	52.7	1.3	9.5
F18	R1	RESIDENTIAL	LKD	23.7	74	54	4.7	27
F18	R2	RESIDENTIAL	BEDROOM	13.7	82.8	74.3	1.2	10.2
F18	R3	RESIDENTIAL	BEDROOM	13.7	85.8	78.7	1.0	8.3
F18	R4	RESIDENTIAL	LKD	23.4	58.4	53	1.3	9.3

NSL CONTOURS

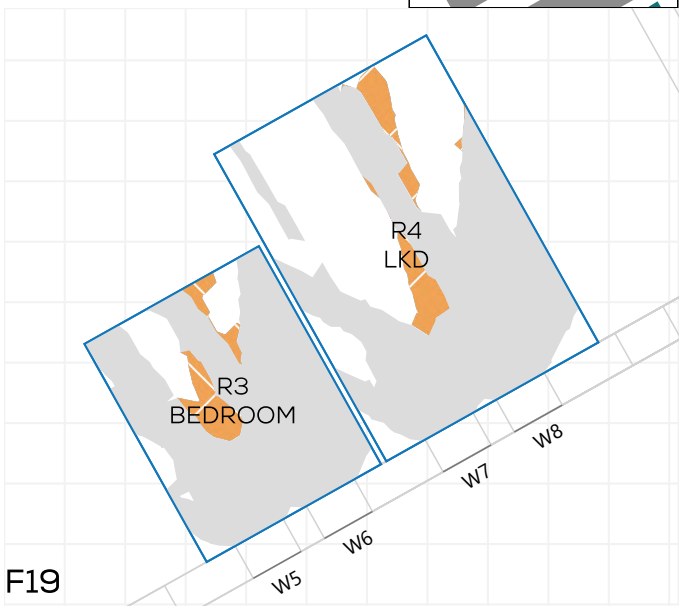
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD720

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

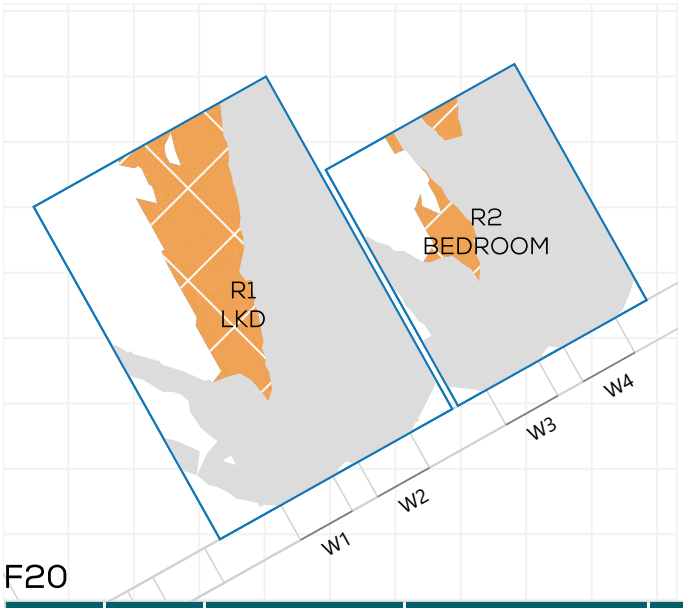




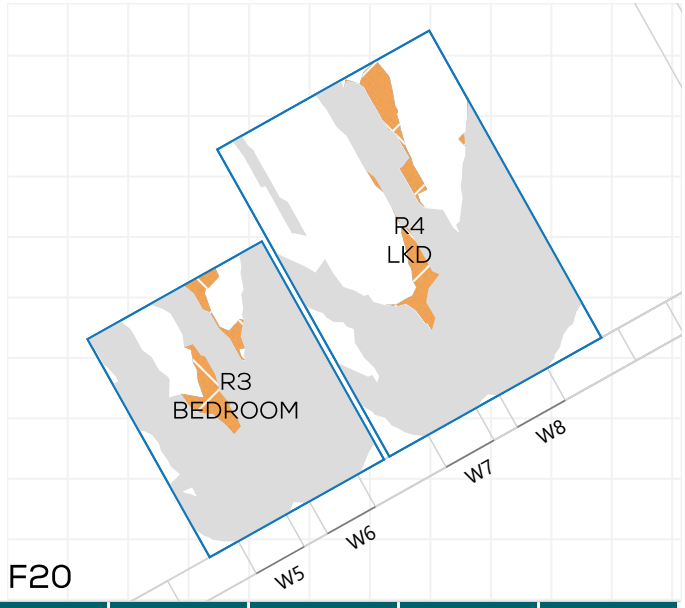
F19



F19



F20



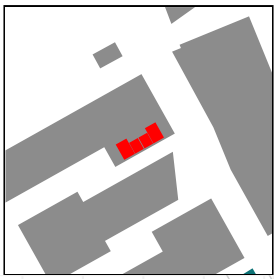
F20

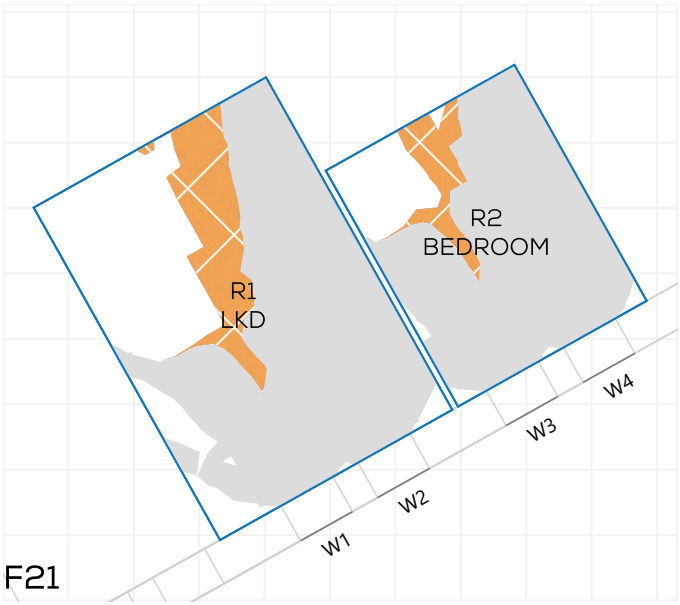
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F19	R1	RESIDENTIAL	LKD	23.7	74.3	54.5	4.7	26.7
F19	R2	RESIDENTIAL	BEDROOM	13.7	83.8	75.5	1.1	9.9
F19	R3	RESIDENTIAL	BEDROOM	13.7	86	79.3	0.9	7.9
F19	R4	RESIDENTIAL	LKD	23.4	58.6	53.6	1.2	8.6
F20	R1	RESIDENTIAL	LKD	23.7	74.9	55.8	4.5	25.5
F20	R2	RESIDENTIAL	BEDROOM	13.7	84.4	77.2	1.0	8.6
F20	R3	RESIDENTIAL	BEDROOM	13.7	85.8	80.3	0.8	6.5
F20	R4	RESIDENTIAL	LKD	23.4	59.1	54.5	1.1	7.6

NSL CONTOURS

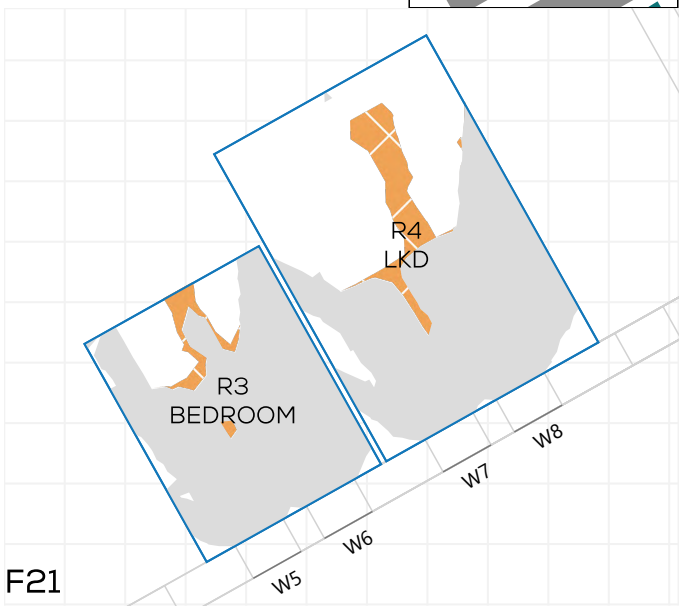
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD721

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

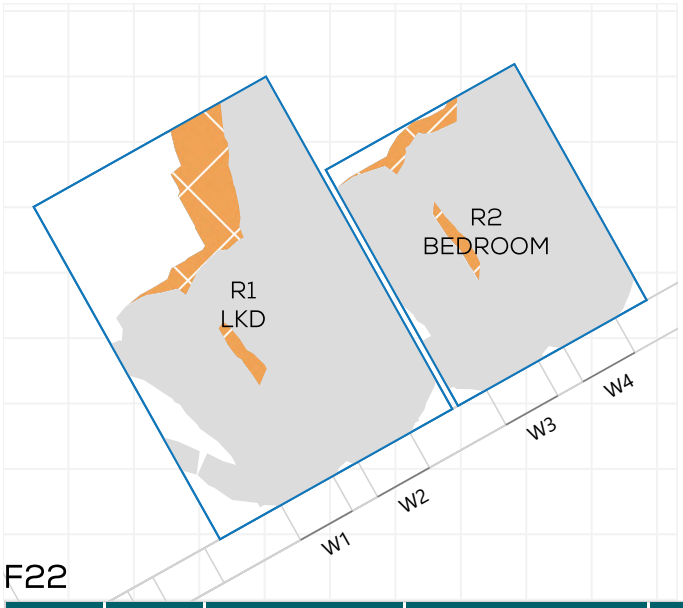




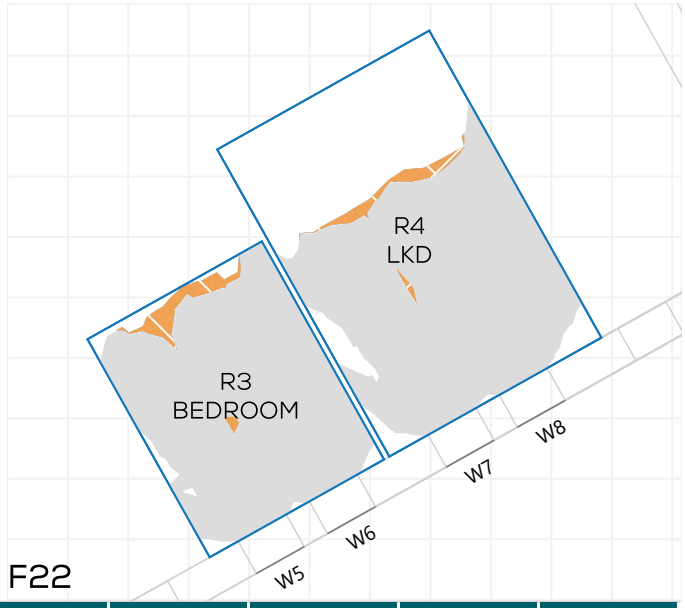
F21



F21



F22



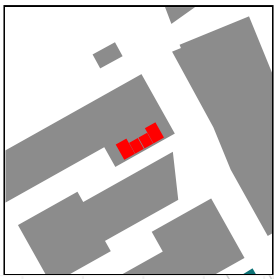
F22

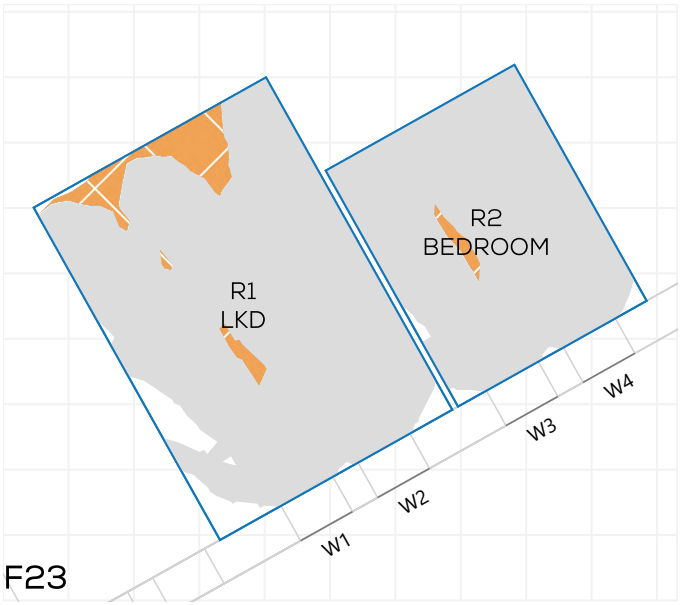
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F21	R1	RESIDENTIAL	LKD	23.7	70.8	58.9	2.8	16.9
F21	R2	RESIDENTIAL	BEDROOM	13.7	85.6	76.9	1.2	10.2
F21	R3	RESIDENTIAL	BEDROOM	13.7	83.6	79.6	0.5	4.8
F21	R4	RESIDENTIAL	LKD	23.4	55	48.3	1.5	12
F22	R1	RESIDENTIAL	LKD	23.7	76.5	67.8	2.1	11.5
F22	R2	RESIDENTIAL	BEDROOM	13.7	95.5	91	0.6	4.7
F22	R3	RESIDENTIAL	BEDROOM	13.7	94.4	90.6	0.5	4.1
F22	R4	RESIDENTIAL	LKD	23.4	62.8	61	0.4	2.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD722

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

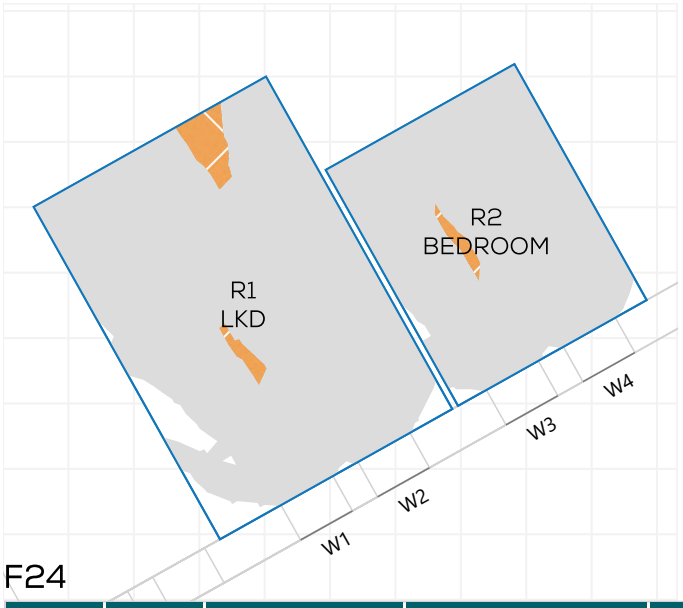




F23



F23



F24



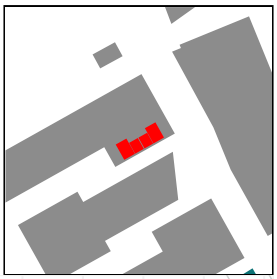
F24

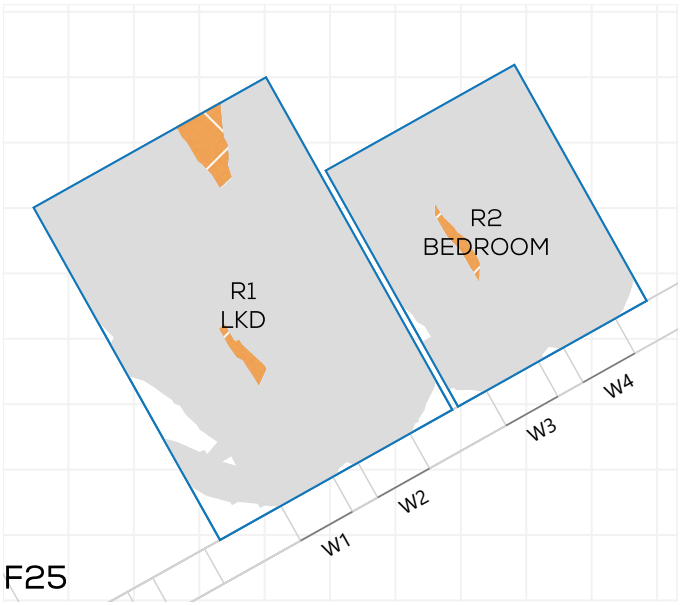
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F23	R1	RESIDENTIAL	LKD	23.7	94.4	87.5	1.6	7.3
F23	R2	RESIDENTIAL	BEDROOM	13.7	98.2	96.8	0.2	1.4
F23	R3	RESIDENTIAL	BEDROOM	13.7	97.7	97.4	0.0	0.3
F23	R4	RESIDENTIAL	LKD	23.4	95	87.8	1.7	7.6
F24	R1	RESIDENTIAL	LKD	23.7	94.8	91.6	0.8	3.4
F24	R2	RESIDENTIAL	BEDROOM	13.7	98.2	96.8	0.2	1.4
F24	R3	RESIDENTIAL	BEDROOM	13.7	97.7	97.5	0.0	0.3
F24	R4	RESIDENTIAL	LKD	23.4	95.7	92	0.9	3.9

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD723

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

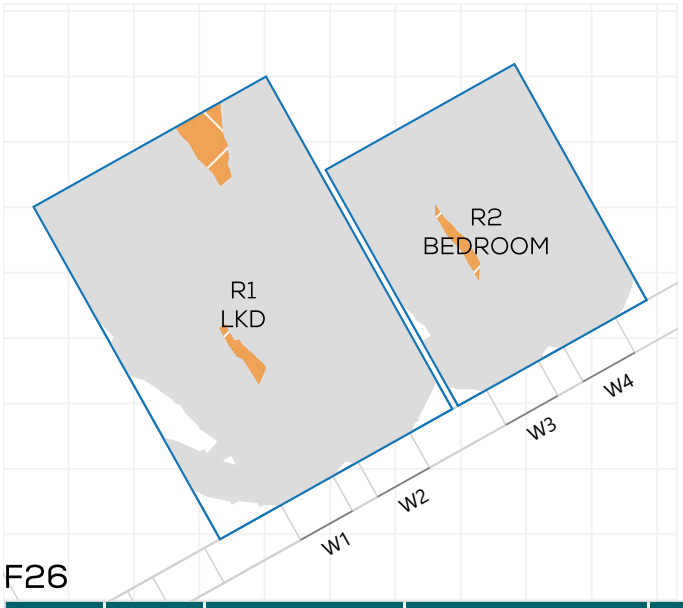




F25



F25



F26



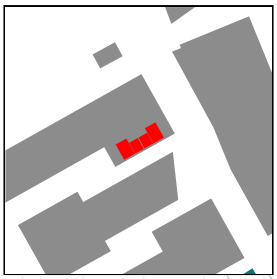
F26

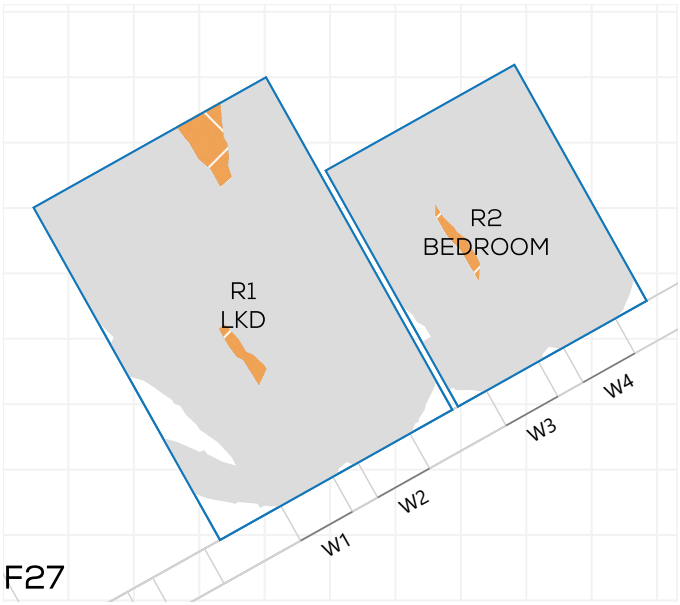
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F25	R1	RESIDENTIAL	LKD	23.7	95	91.9	0.7	3.3
F25	R2	RESIDENTIAL	BEDROOM	13.7	98.2	96.9	0.2	1.4
F25	R3	RESIDENTIAL	BEDROOM	13.7	97.7	97.5	0.0	0.3
F25	R4	RESIDENTIAL	LKD	23.4	95.8	92.6	0.8	3.4
F26	R1	RESIDENTIAL	LKD	23.7	95.1	92	0.7	3.2
F26	R2	RESIDENTIAL	BEDROOM	13.7	98.2	96.9	0.2	1.4
F26	R3	RESIDENTIAL	BEDROOM	13.7	97.7	97.5	0.0	0.2
F26	R4	RESIDENTIAL	LKD	23.4	95.8	92.8	0.7	3.2

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD724

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

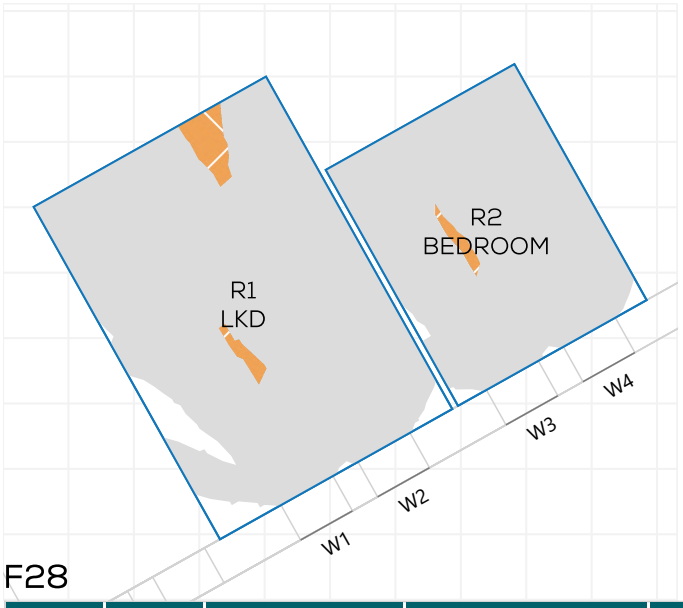




F27



F27



F28



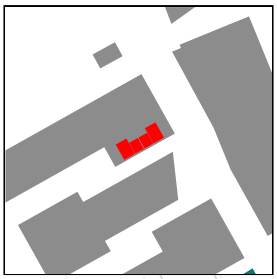
F28

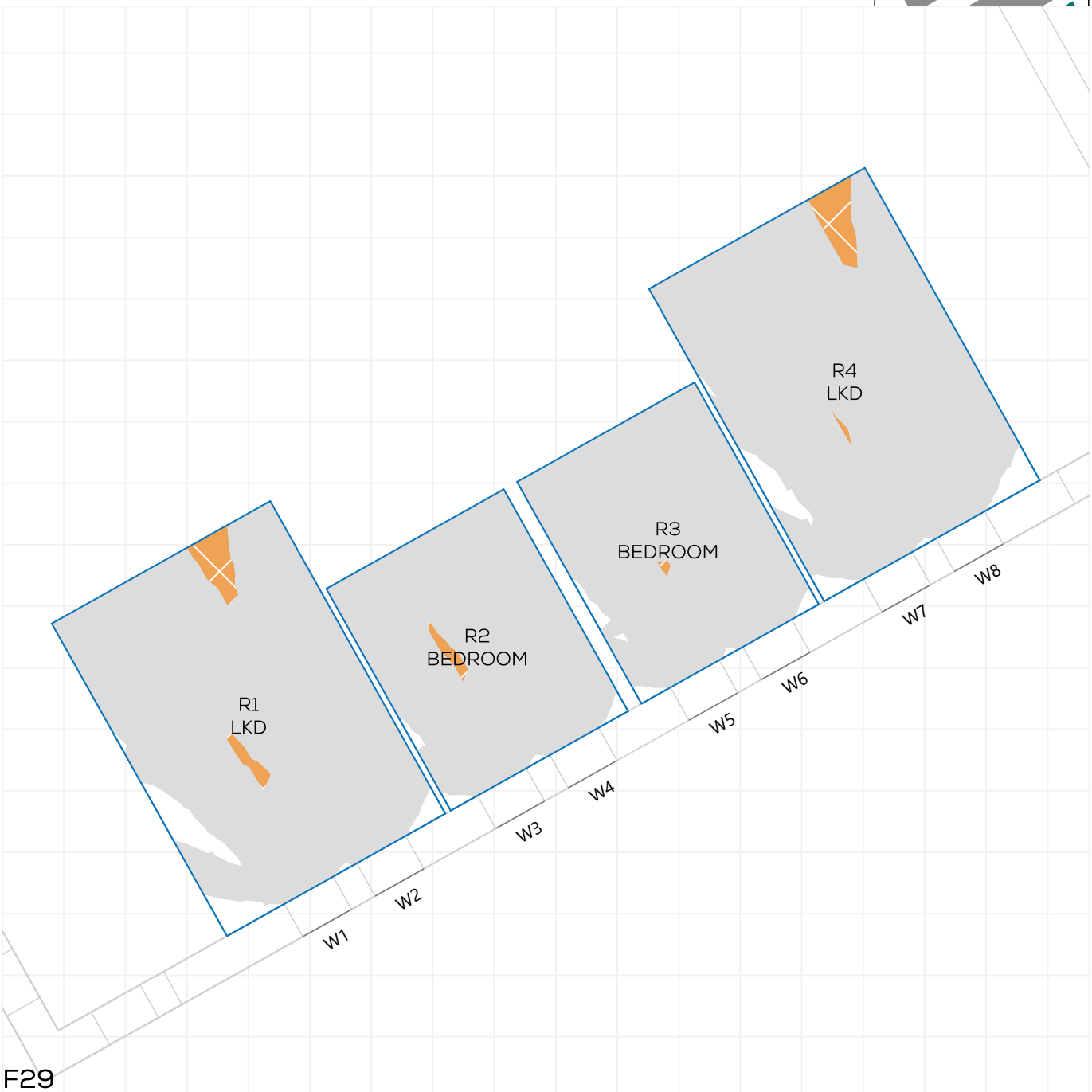
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F27	R1	RESIDENTIAL	LKD	23.7	94.9	91.9	0.7	3.2
F27	R2	RESIDENTIAL	BEDROOM	13.7	98.2	96.9	0.2	1.4
F27	R3	RESIDENTIAL	BEDROOM	13.7	97.7	97.5	0.0	0.2
F27	R4	RESIDENTIAL	LKD	23.4	95.8	92.9	0.7	3
F28	R1	RESIDENTIAL	LKD	23.7	94.9	91.9	0.7	3.2
F28	R2	RESIDENTIAL	BEDROOM	13.7	98.2	96.9	0.2	1.3
F28	R3	RESIDENTIAL	BEDROOM	13.7	97.7	97.5	0.0	0.2
F28	R4	RESIDENTIAL	LKD	23.4	95.8	92.9	0.7	3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD725

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





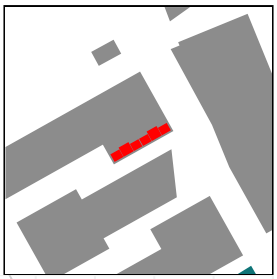
F29

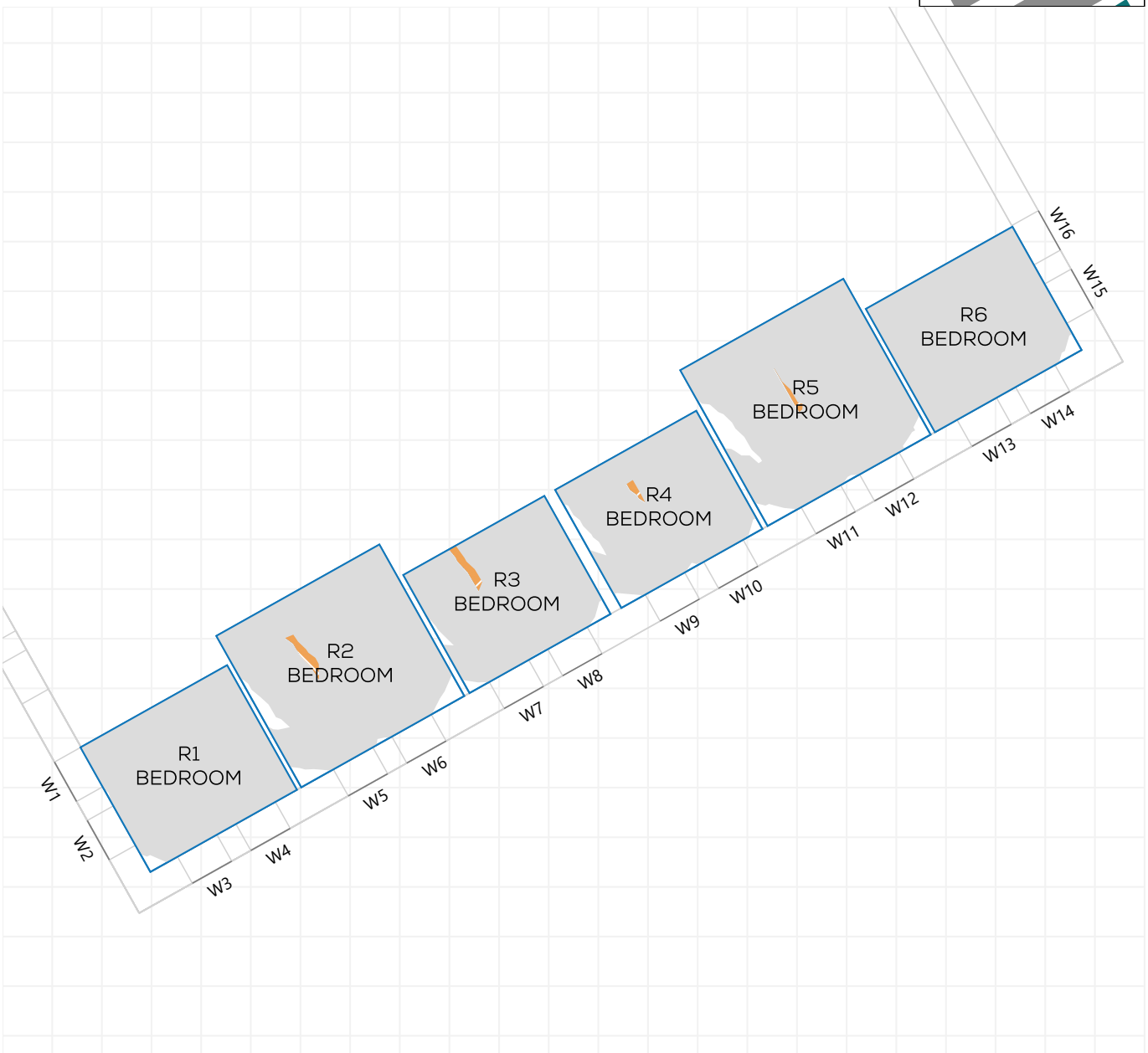
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F29	R1	RESIDENTIAL	LKD	23.7	94.9	91.9	0.7	3.2
F29	R2	RESIDENTIAL	BEDROOM	13.7	98.2	97.1	0.2	1.1
F29	R3	RESIDENTIAL	BEDROOM	13.7	97.7	97.5	0.0	0.2
F29	R4	RESIDENTIAL	LKD	23.4	95.8	92.9	0.7	3

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD726

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





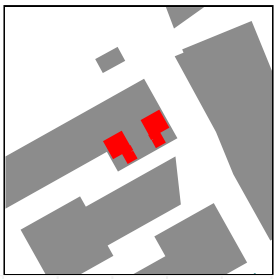
F30

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F30	R1	RESIDENTIAL	BEDROOM	9.7	99	99	0.0	0
F30	R2	RESIDENTIAL	BEDROOM	13.2	95.5	94.3	0.2	1.3
F30	R3	RESIDENTIAL	BEDROOM	8.9	97.6	95.8	0.2	1.8
F30	R4	RESIDENTIAL	BEDROOM	8.9	96.2	95.5	0.1	0.7
F30	R5	RESIDENTIAL	BEDROOM	13.5	94	93.5	0.1	0.5
F30	R6	RESIDENTIAL	BEDROOM	9.6	98.9	98.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: TRANSITION BLOCK 1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD727

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





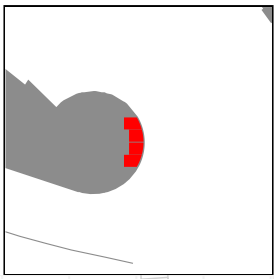
F31

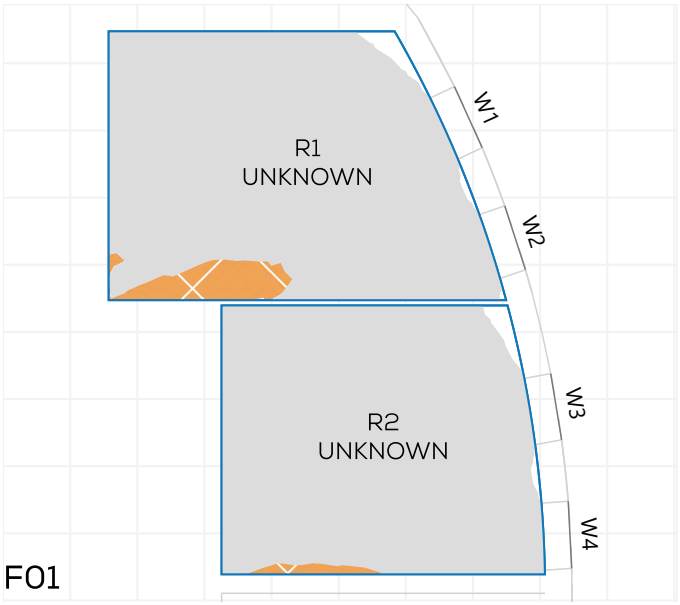
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
TRANSITION BLOCK 1								
F31	R1	RESIDENTIAL	LKD	63.8	99.4	99.4	0.0	0
F31	R2	RESIDENTIAL	LKD	63.8	99.4	99.4	0.0	0

NSL CONTOURS

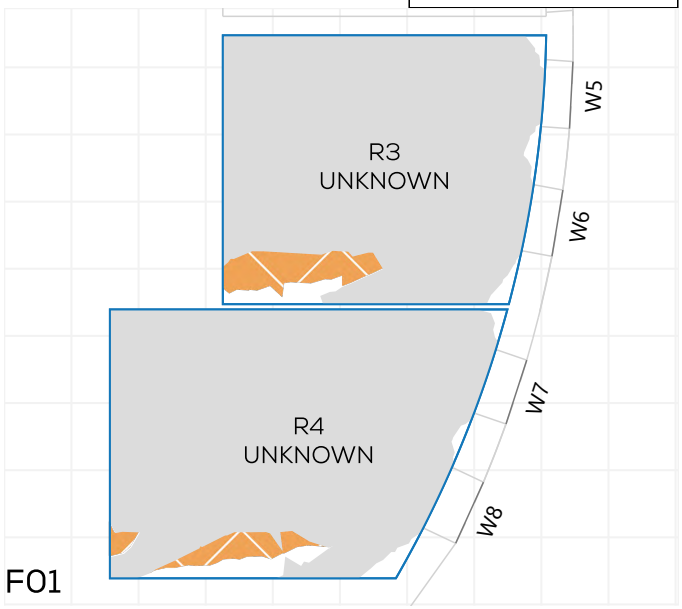
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD728

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





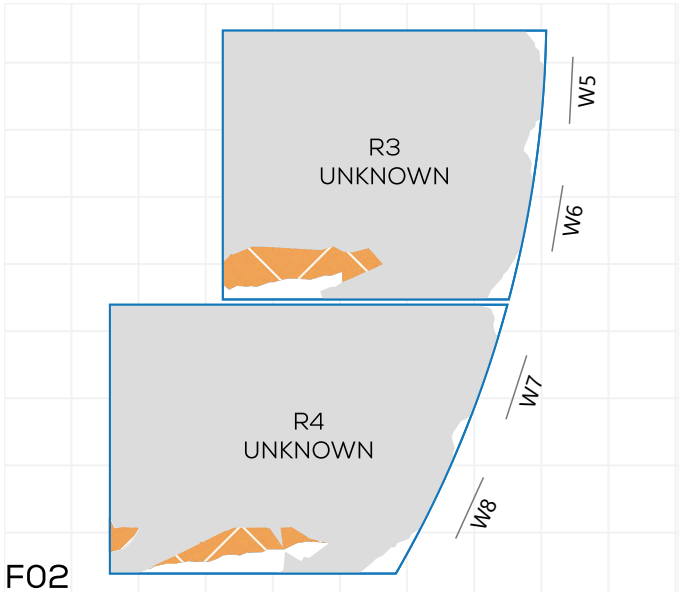
F01



F01



F02



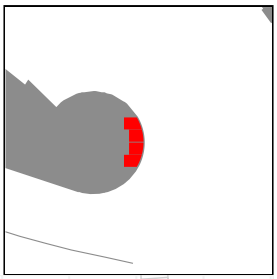
F02

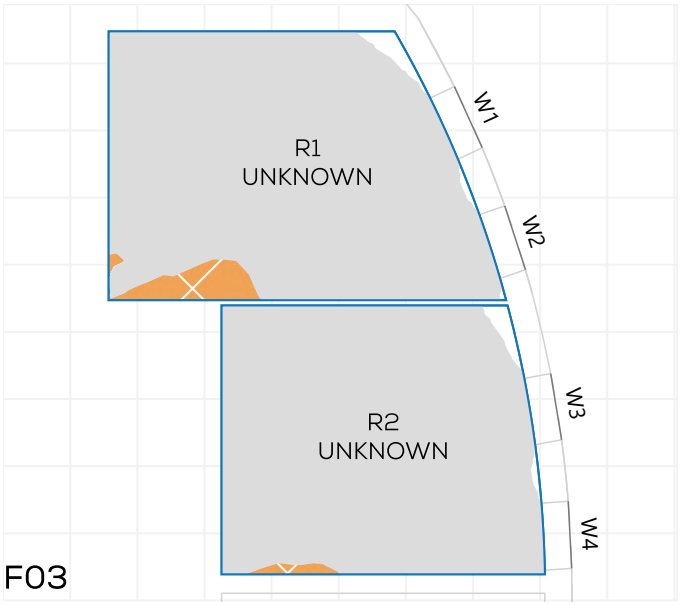
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F01	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	92.9	1.2	5.6
F01	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	97.3	0.2	1.3
F01	R3	RESIDENTIAL	UNKNOWN	18.5	96.1	90.3	1.1	6.1
F01	R4	RESIDENTIAL	UNKNOWN	20.8	95.7	92.1	0.8	3.8
F02	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	93.5	1.0	5.1
F02	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	97.6	0.2	1
F02	R3	RESIDENTIAL	UNKNOWN	18.5	96	90.5	1.0	5.8
F02	R4	RESIDENTIAL	UNKNOWN	20.8	95.7	92.2	0.7	3.6

NSL CONTOURS

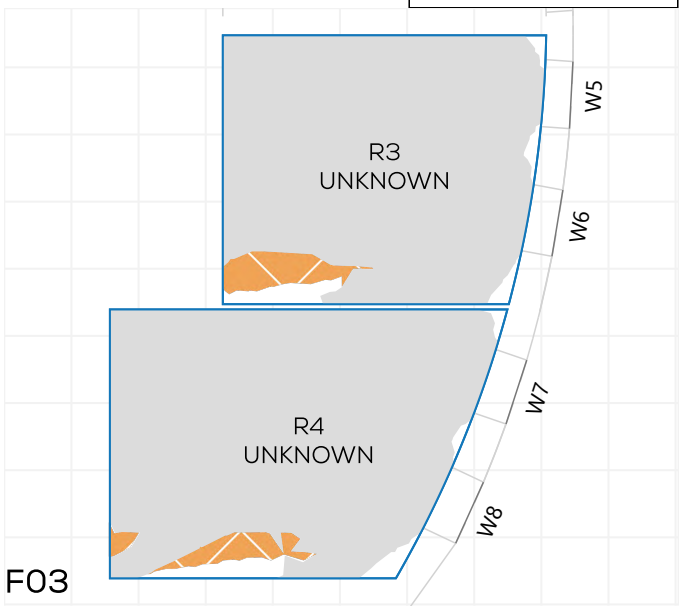
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD729

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

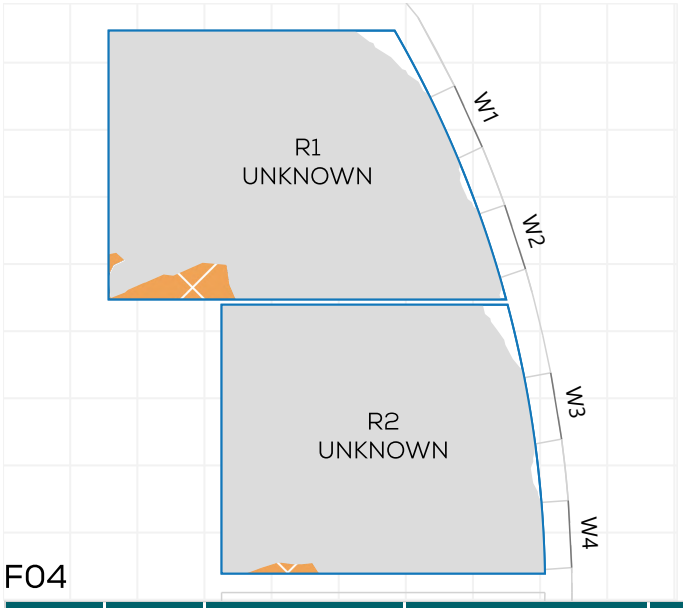




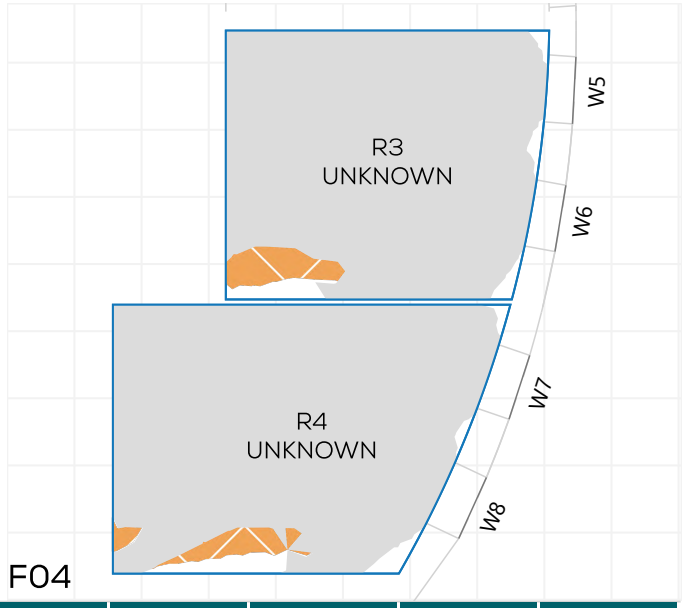
F03



F03



F04



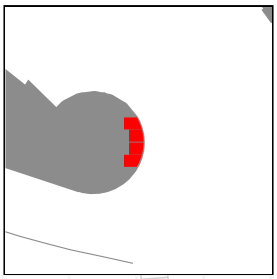
F04

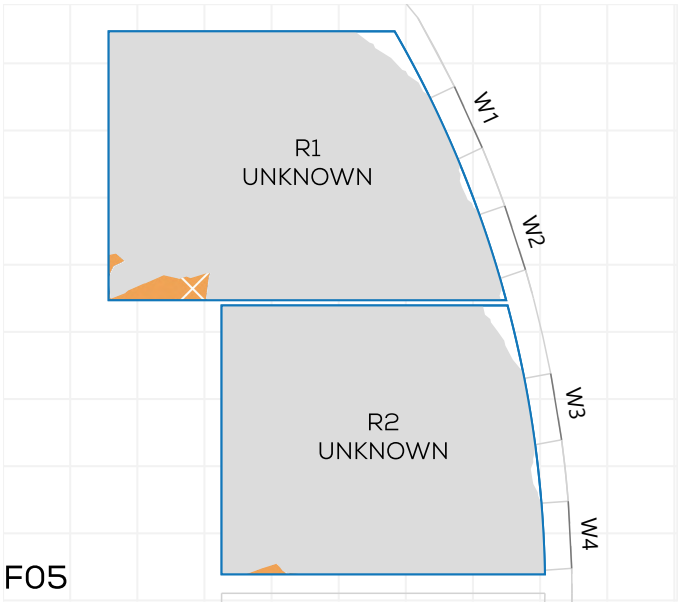
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F03	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	94.3	0.9	4.2
F03	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	97.7	0.2	0.9
F03	R3	RESIDENTIAL	UNKNOWN	18.5	96	91.6	0.8	4.7
F03	R4	RESIDENTIAL	UNKNOWN	20.8	96.2	92.6	0.7	3.6
F04	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	95.3	0.7	3.2
F04	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	97.9	0.1	0.7
F04	R3	RESIDENTIAL	UNKNOWN	18.5	96.4	92.3	0.8	4.3
F04	R4	RESIDENTIAL	UNKNOWN	20.8	96.2	92.9	0.7	3.5

NSL CONTOURS

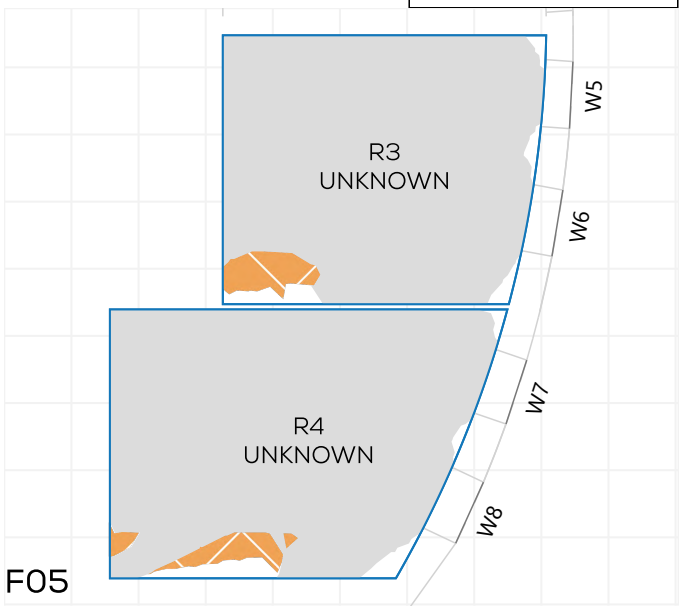
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD730

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

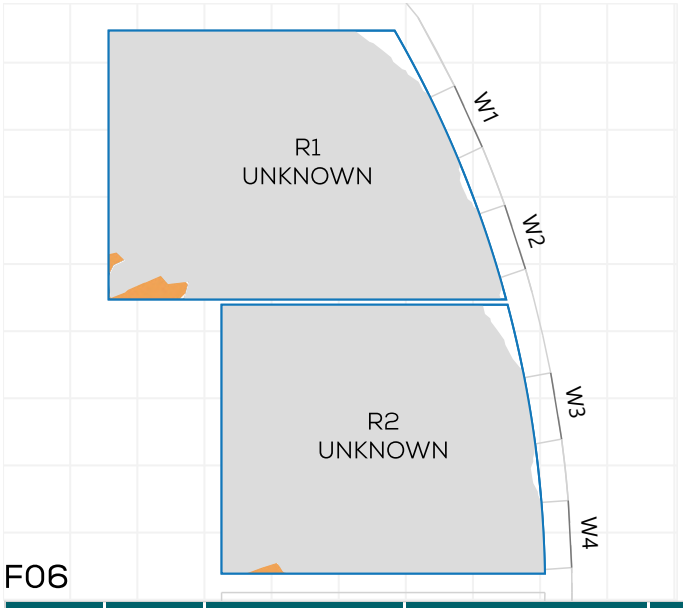




F05



F05



F06



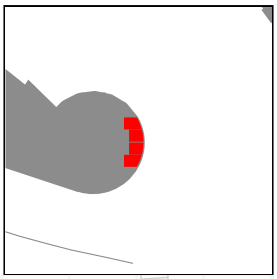
F06

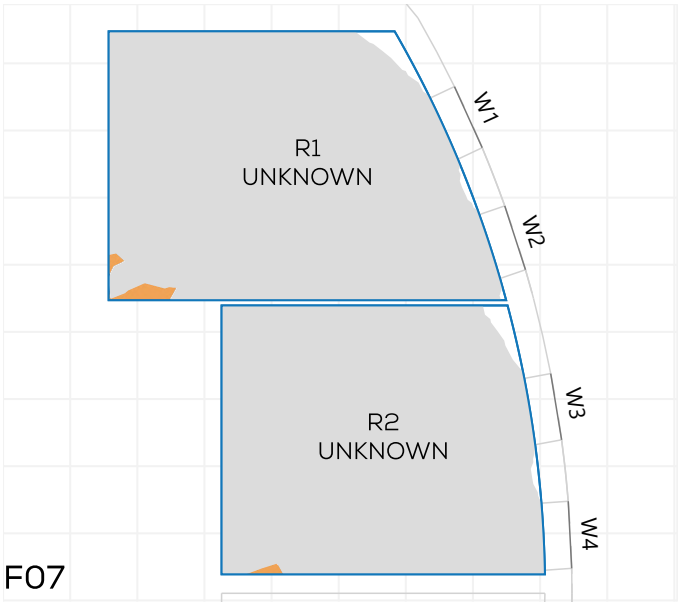
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F05	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	96.4	0.4	2.1
F05	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.3	0.1	0.3
F05	R3	RESIDENTIAL	UNKNOWN	18.5	96.7	92.9	0.7	3.9
F05	R4	RESIDENTIAL	UNKNOWN	20.8	96.4	93.1	0.7	3.4
F06	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	97.2	0.3	1.4
F06	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.3	0.0	0.3
F06	R3	RESIDENTIAL	UNKNOWN	18.5	97.6	93.8	0.7	3.9
F06	R4	RESIDENTIAL	UNKNOWN	20.8	96.5	93.1	0.7	3.5

NSL CONTOURS

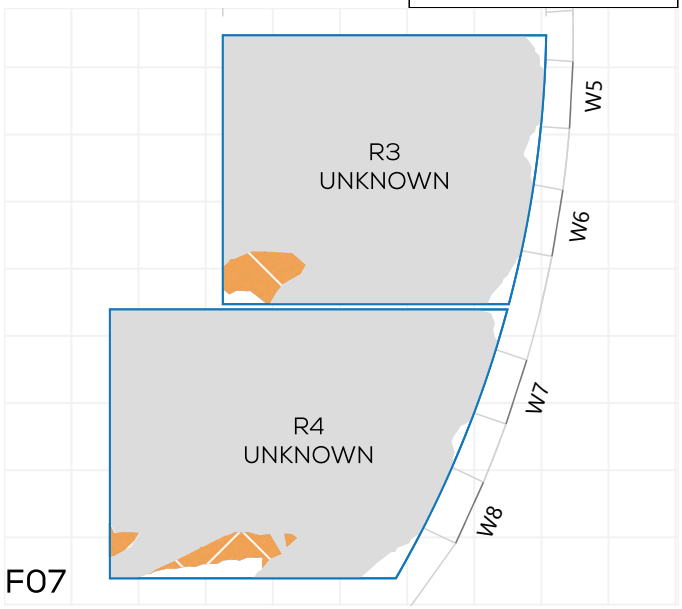
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD731

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

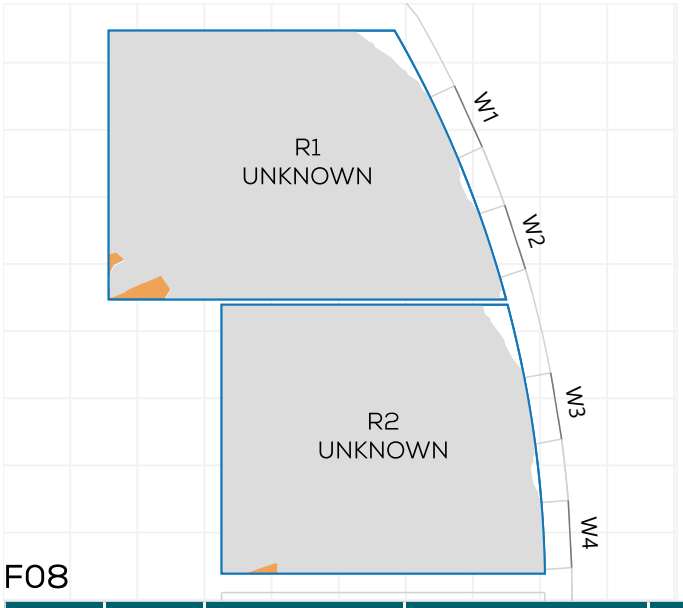




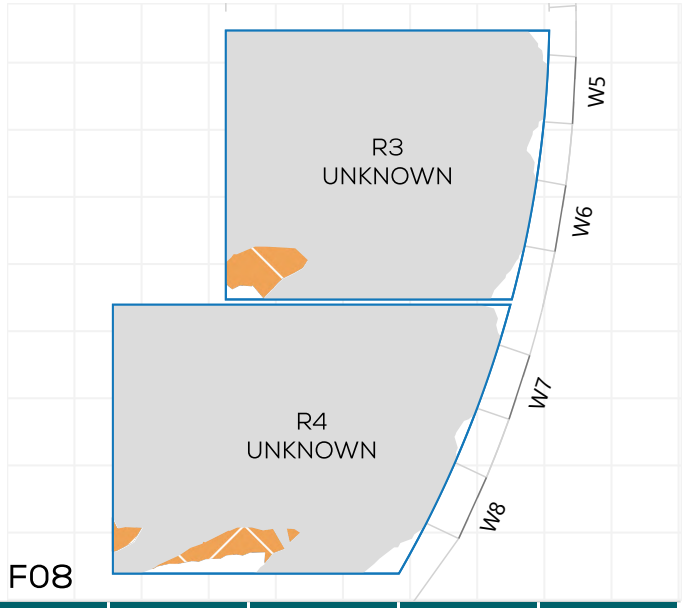
F07



F07



F08



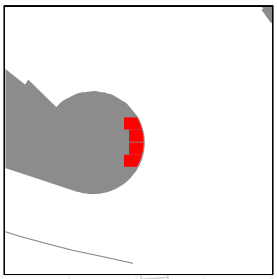
F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F07	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	97.6	0.2	1
F07	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.3	0.0	0.3
F07	R3	RESIDENTIAL	UNKNOWN	18.5	97.8	94.4	0.6	3.5
F07	R4	RESIDENTIAL	UNKNOWN	20.8	96.7	93.6	0.6	3.2
F08	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	97.5	0.2	1
F08	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.4	0.0	0.2
F08	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	94.6	0.6	3.3
F08	R4	RESIDENTIAL	UNKNOWN	20.8	96.7	93.6	0.6	3.2

NSL CONTOURS

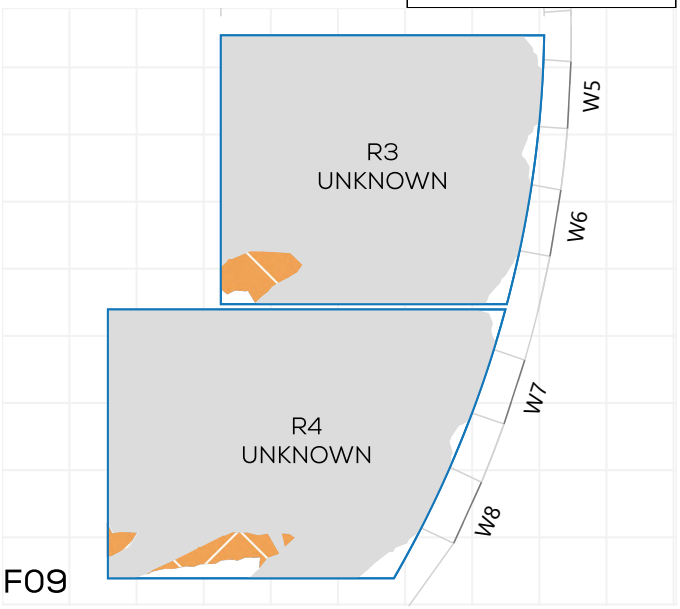
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD732

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

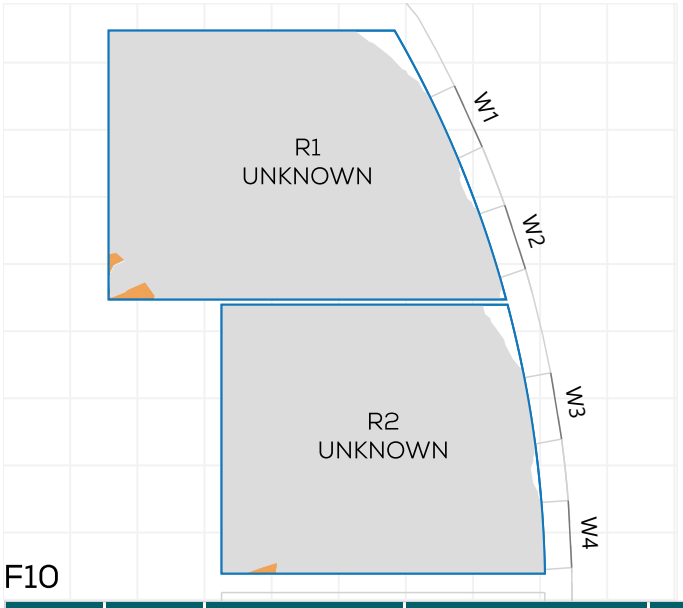




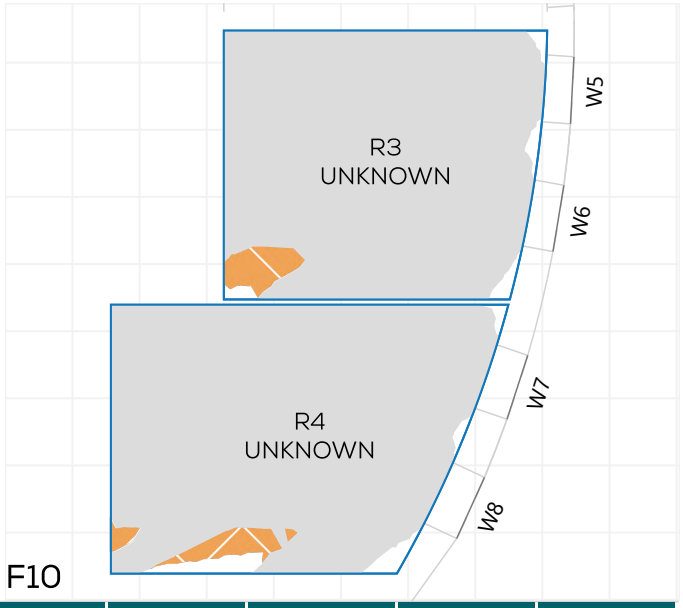
F09



F09



F10



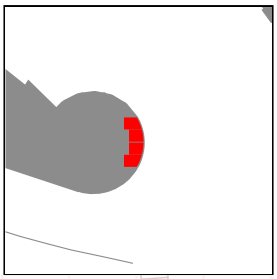
F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F09	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	97.7	0.2	0.8
F09	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.4	0.0	0.2
F09	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	94.7	0.6	3.3
F09	R4	RESIDENTIAL	UNKNOWN	20.8	96.7	93.7	0.6	3.2
F10	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	97.9	0.1	0.7
F10	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.4	0.0	0.2
F10	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	94.7	0.6	3.2
F10	R4	RESIDENTIAL	UNKNOWN	20.8	96.7	93.7	0.6	3.2

NSL CONTOURS

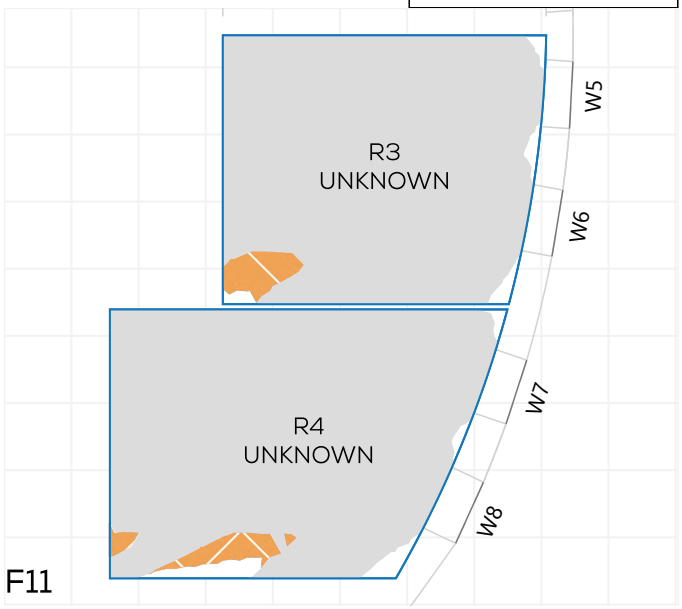
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD733

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

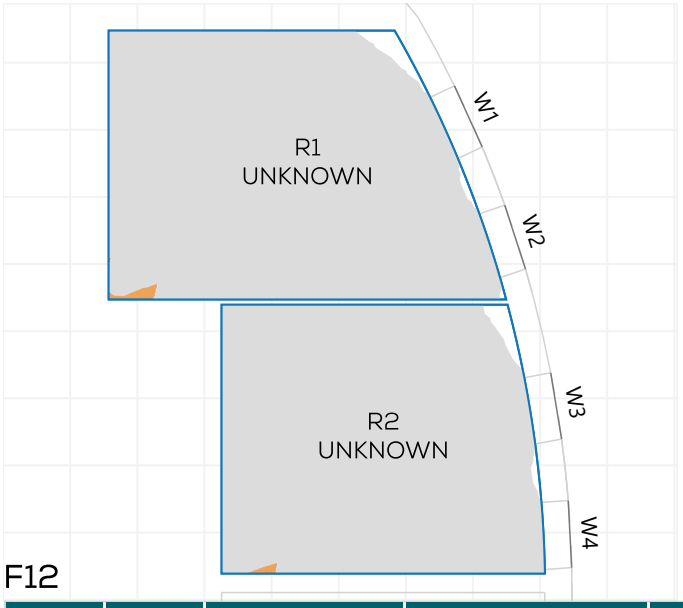




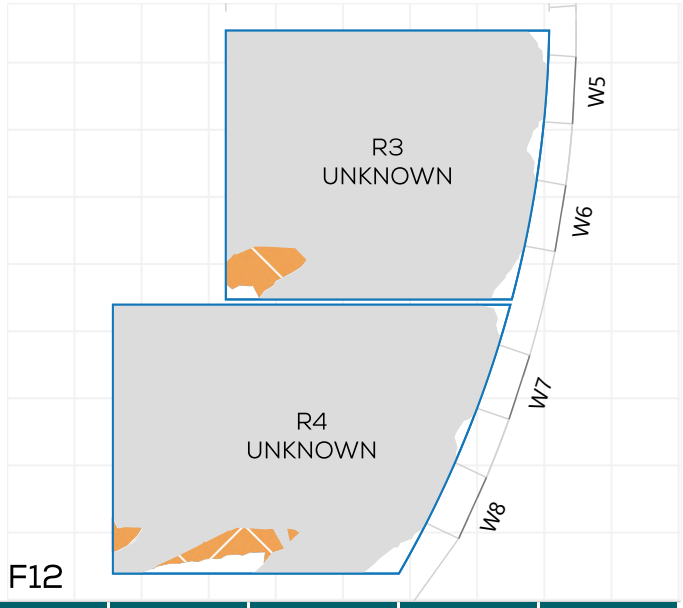
F11



F11



F12



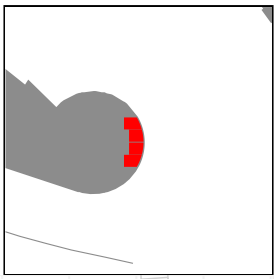
F12

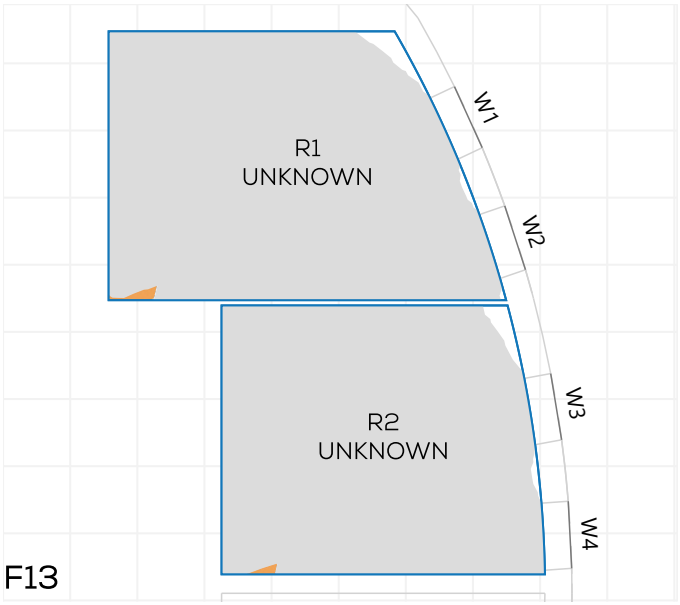
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F11	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98	0.1	0.5
F11	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.4	0.0	0.2
F11	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	94.7	0.6	3.2
F11	R4	RESIDENTIAL	UNKNOWN	20.8	96.7	93.7	0.6	3.2
F12	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.1	0.1	0.4
F12	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.4	0.0	0.2
F12	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	94.8	0.6	3.2
F12	R4	RESIDENTIAL	UNKNOWN	20.8	96.7	93.7	0.6	3.2

NSL CONTOURS

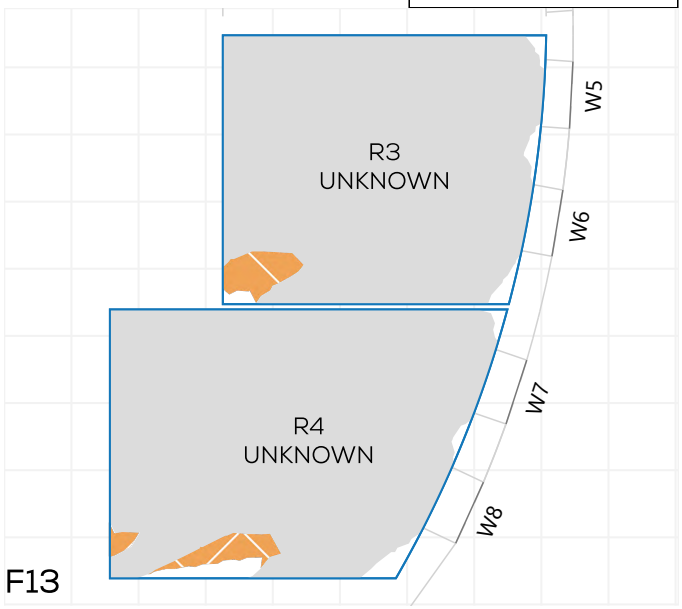
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD734

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

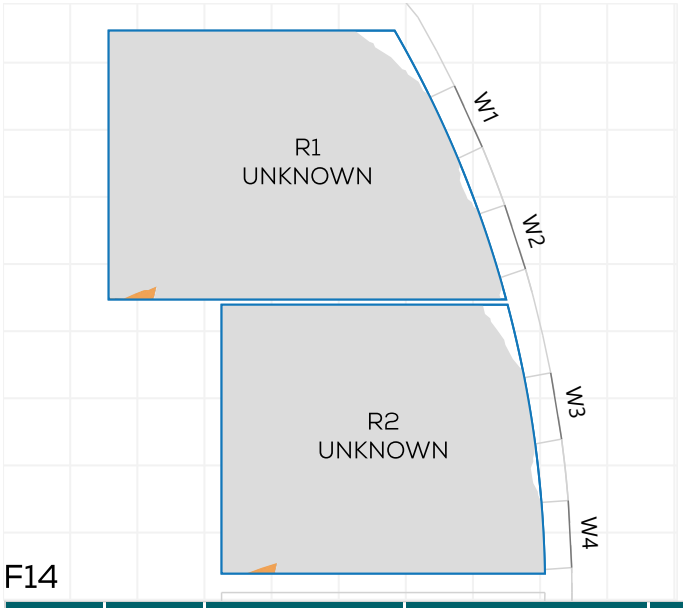




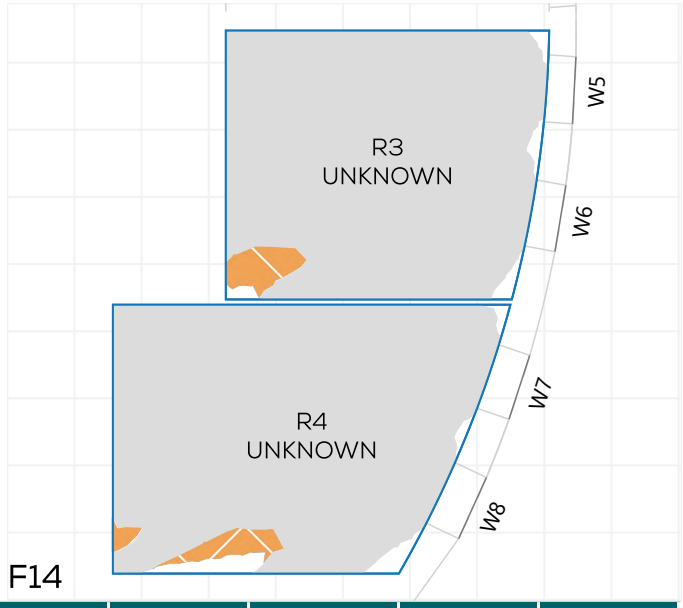
F13



F13



F14



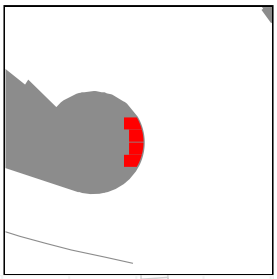
F14

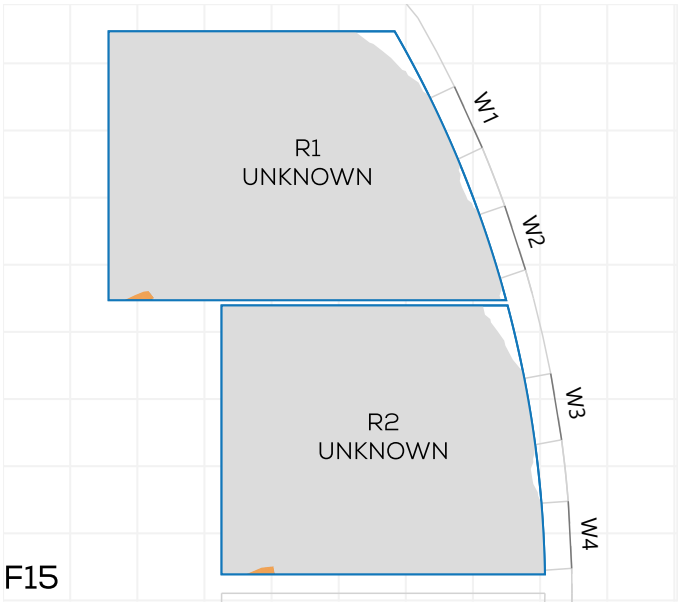
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F13	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.2	0.1	0.3
F13	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.4	0.0	0.2
F13	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	94.8	0.6	3.2
F13	R4	RESIDENTIAL	UNKNOWN	20.8	96.8	93.8	0.6	3
F14	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.2	0.1	0.3
F14	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.4	0.0	0.2
F14	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	94.8	0.6	3.2
F14	R4	RESIDENTIAL	UNKNOWN	20.8	96.8	93.8	0.6	3

NSL CONTOURS

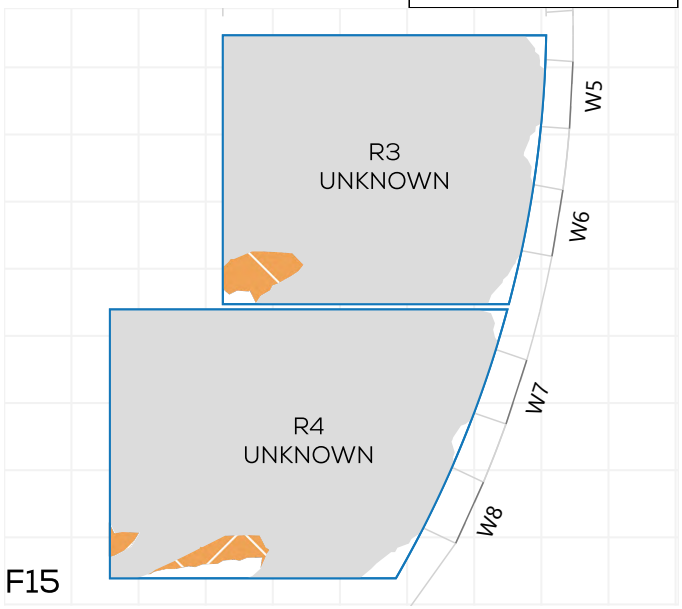
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD735

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

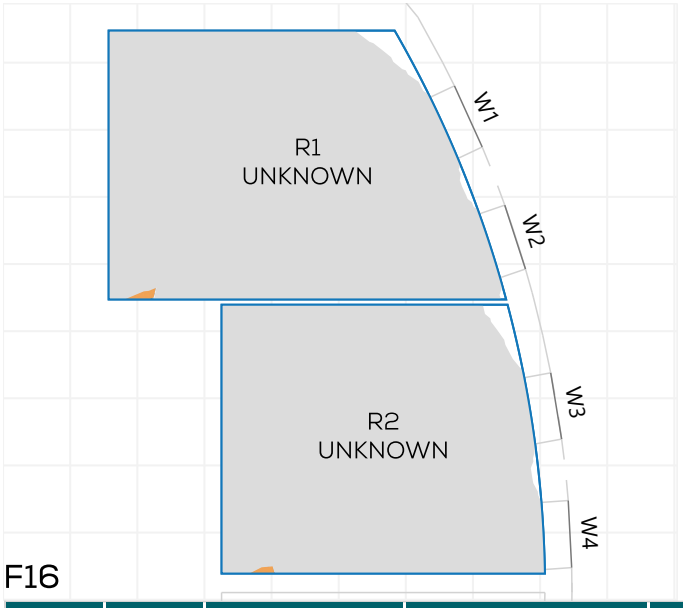




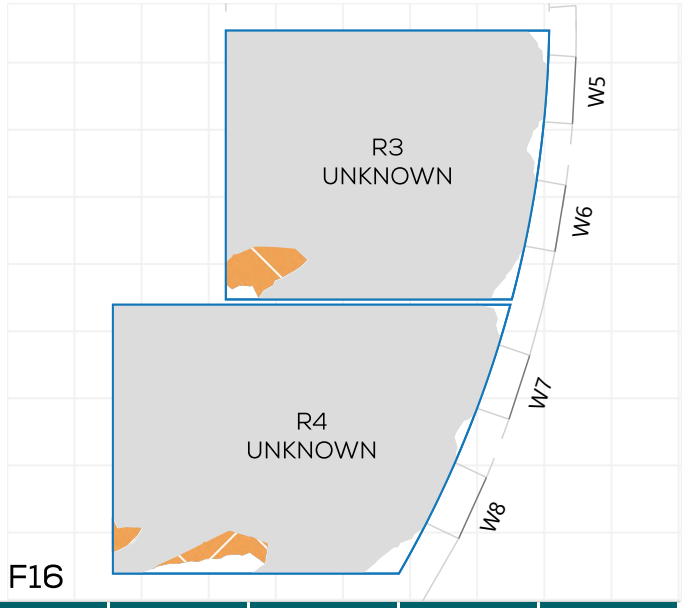
F15



F15



F16



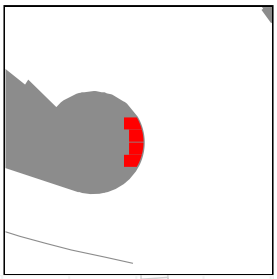
F16

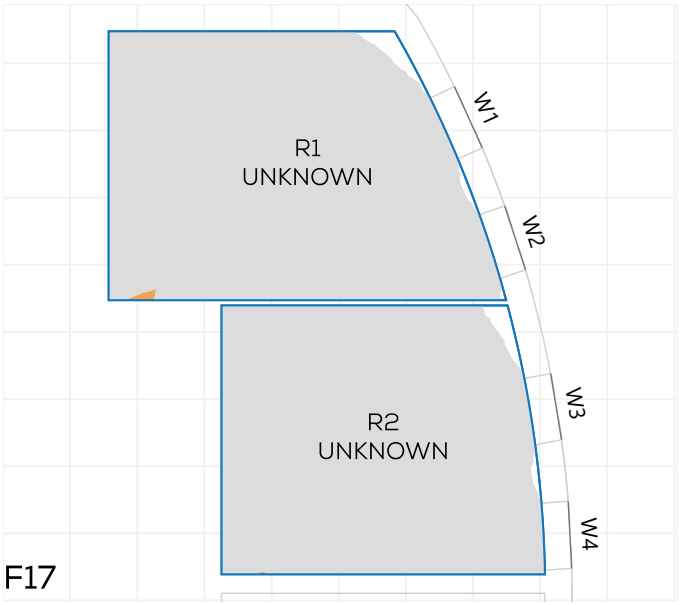
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F15	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.4	0.0	0.2
F15	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.4	0.0	0.2
F15	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	94.8	0.6	3.2
F15	R4	RESIDENTIAL	UNKNOWN	20.8	96.8	94.2	0.5	2.7
F16	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.3	0.0	0.2
F16	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.4	0.0	0.1
F16	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	94.8	0.6	3.2
F16	R4	RESIDENTIAL	UNKNOWN	20.8	96.8	94.4	0.5	2.5

NSL CONTOURS

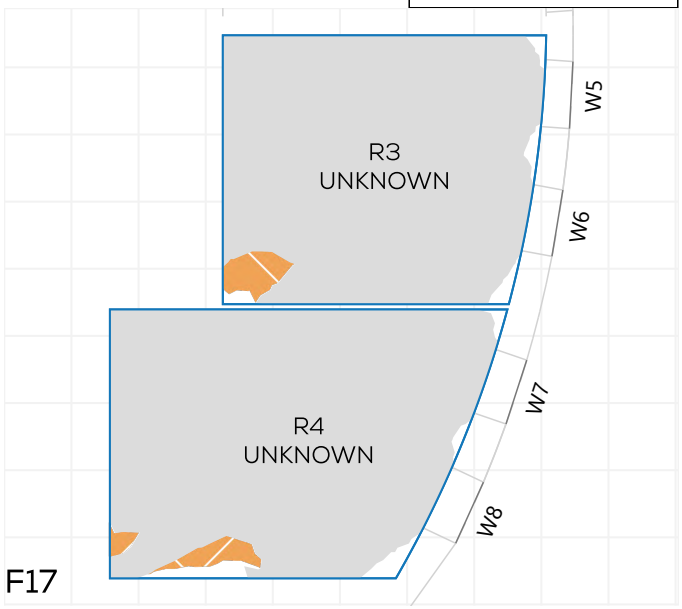
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD736

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

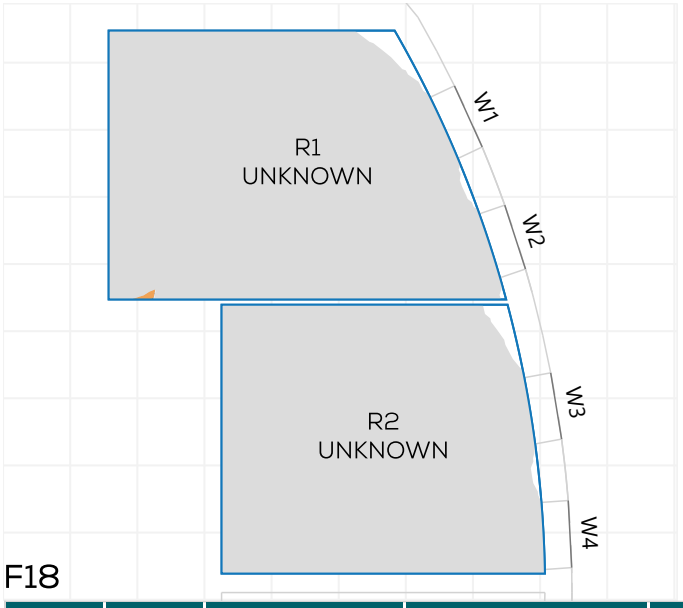




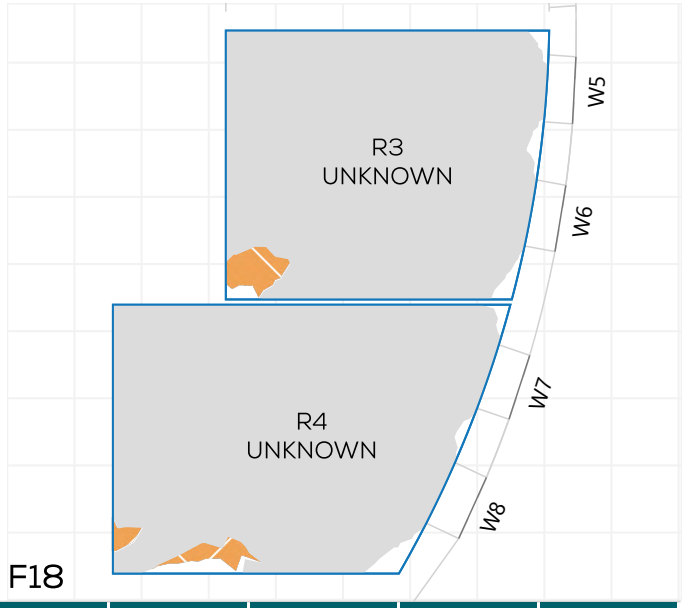
F17



F17



F18



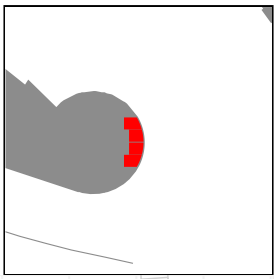
F18

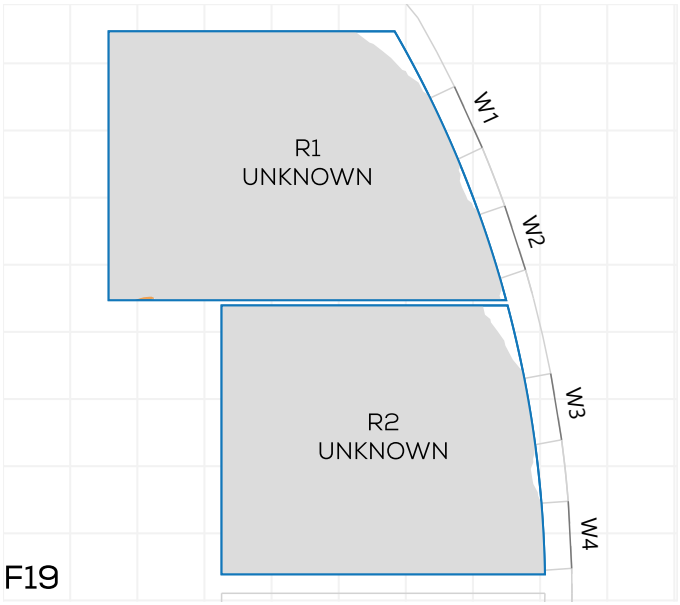
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F17	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.3	0.0	0.2
F17	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F17	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	95.2	0.5	2.8
F17	R4	RESIDENTIAL	UNKNOWN	20.8	97.1	94.7	0.5	2.5
F18	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.4	0.0	0.1
F18	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F18	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	95.4	0.5	2.5
F18	R4	RESIDENTIAL	UNKNOWN	20.8	97.3	95.4	0.4	2

NSL CONTOURS

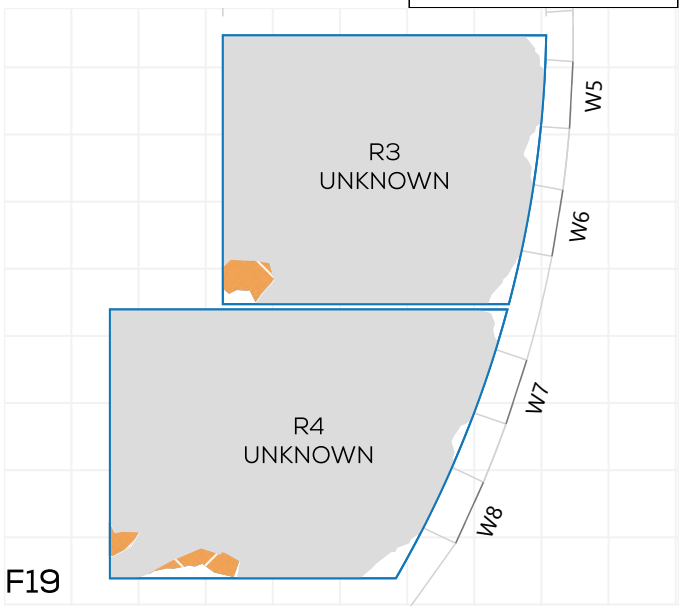
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD737

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

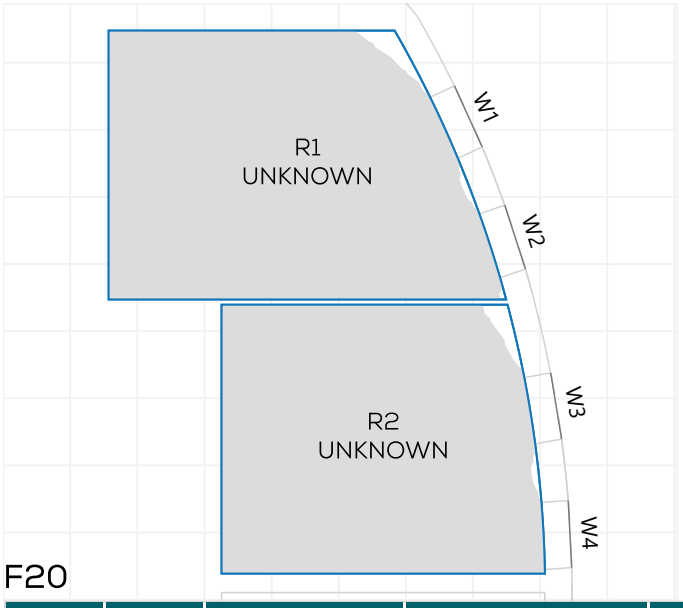




F19



F19



F20



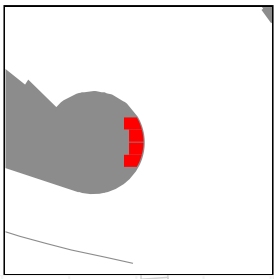
F20

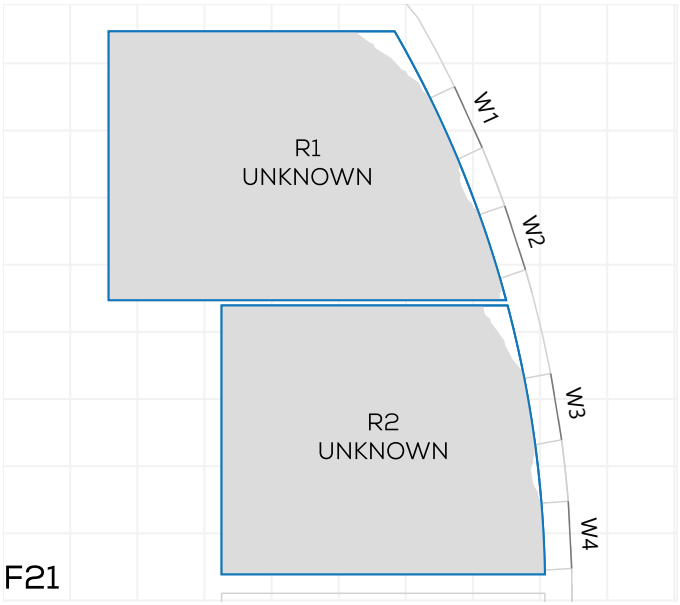
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F19	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F19	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F19	R3	RESIDENTIAL	UNKNOWN	18.5	97.9	96.1	0.3	1.9
F19	R4	RESIDENTIAL	UNKNOWN	20.8	97.6	95.8	0.4	1.8
F20	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F20	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F20	R3	RESIDENTIAL	UNKNOWN	18.5	98.1	96.9	0.2	1.2
F20	R4	RESIDENTIAL	UNKNOWN	20.8	97.7	96.6	0.2	1.2

NSL CONTOURS

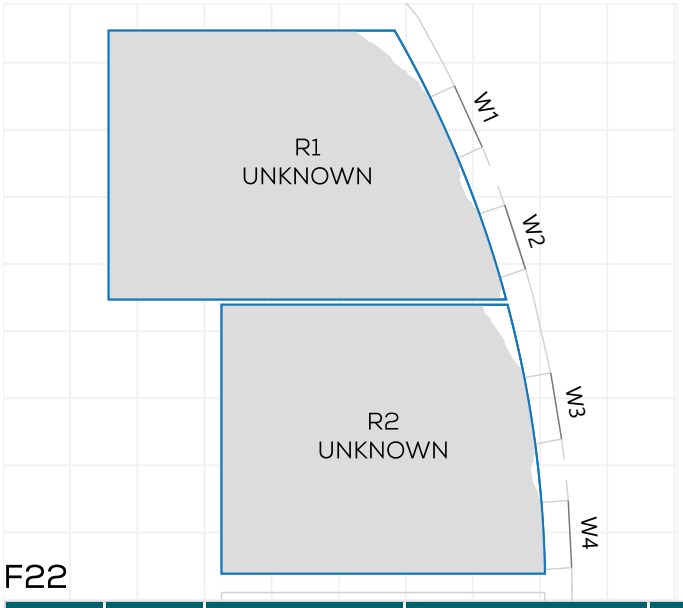
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD738

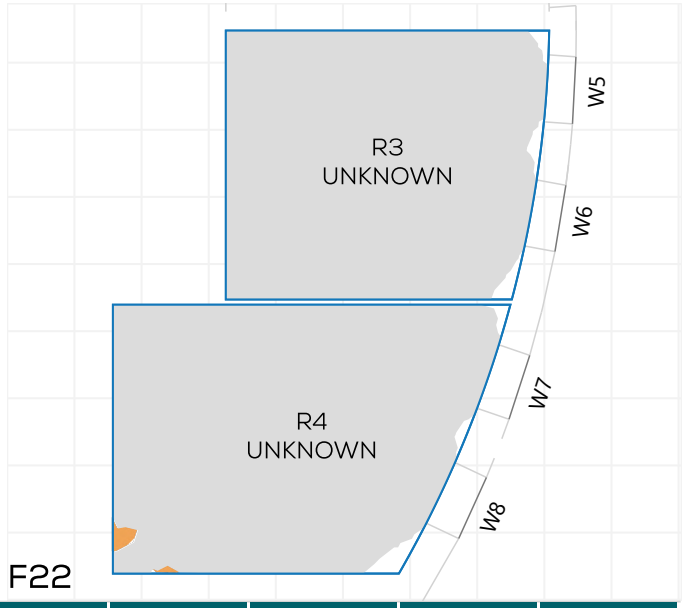
KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID









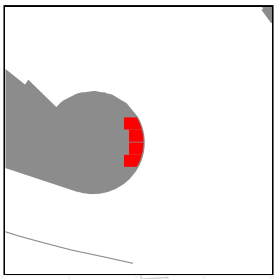


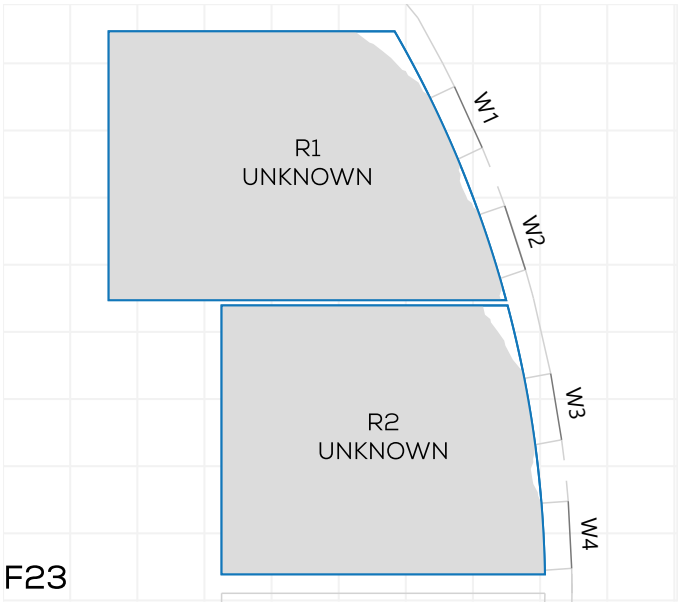
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F21	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F21	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F21	R3	RESIDENTIAL	UNKNOWN	18.5	98.3	97.8	0.1	0.5
F21	R4	RESIDENTIAL	UNKNOWN	20.8	98.2	97.2	0.2	1
F22	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F22	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F22	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F22	R4	RESIDENTIAL	UNKNOWN	20.8	98.3	97.7	0.1	0.6

NSL CONTOURS

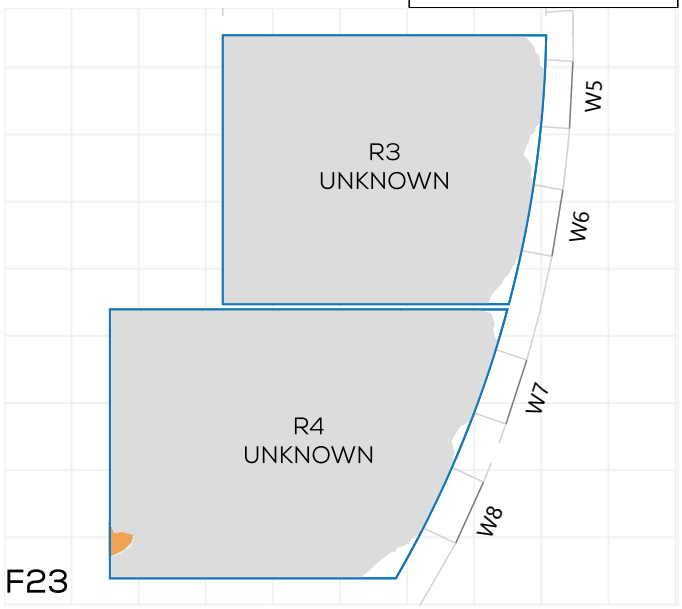
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD739

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

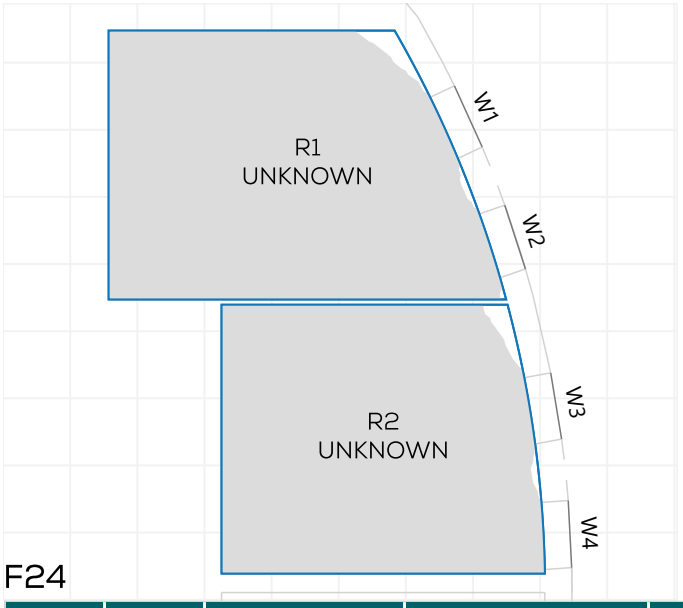




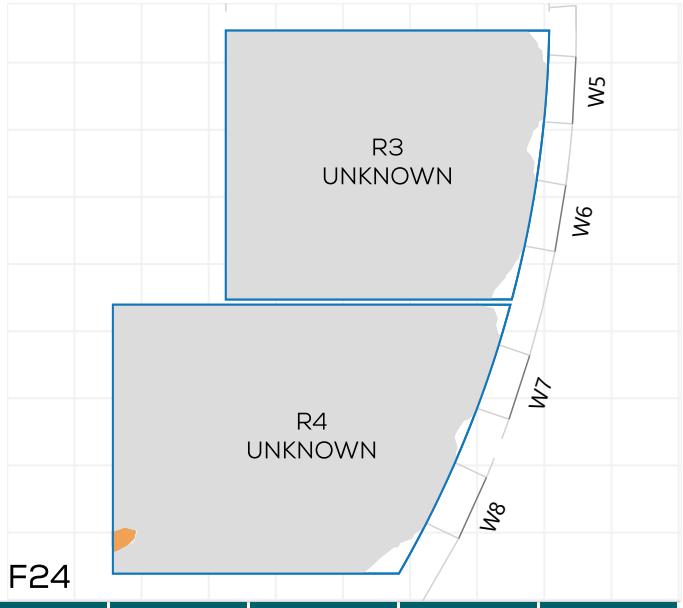
F23



F23



F24



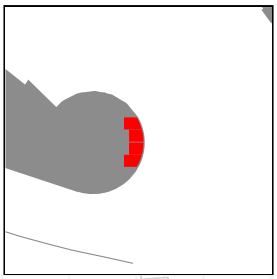
F24

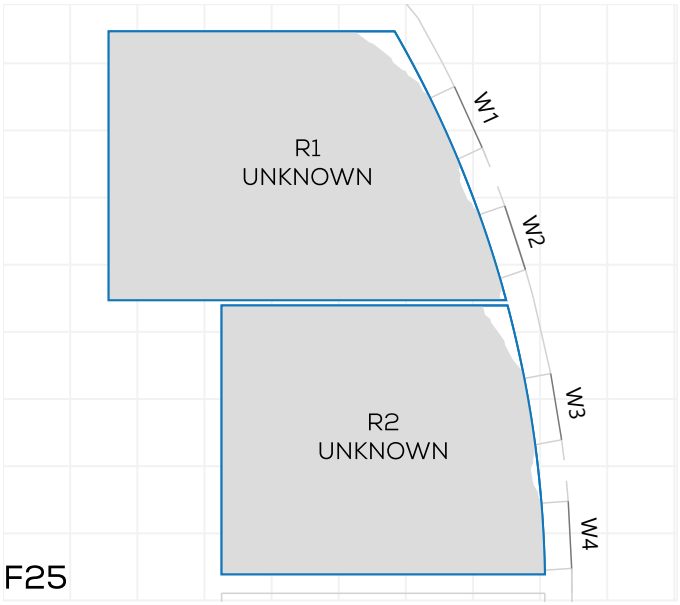
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F23	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F23	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F23	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F23	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	97.9	0.1	0.5
F24	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F24	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F24	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F24	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98	0.1	0.4

NSL CONTOURS

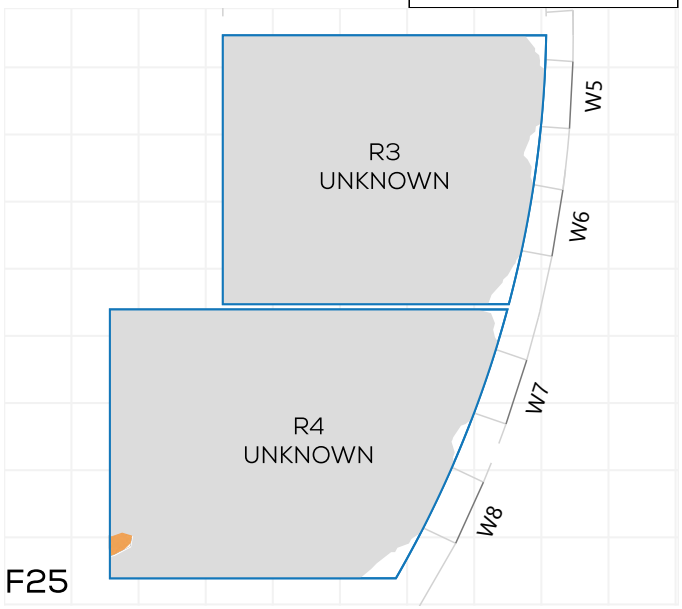
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD740

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

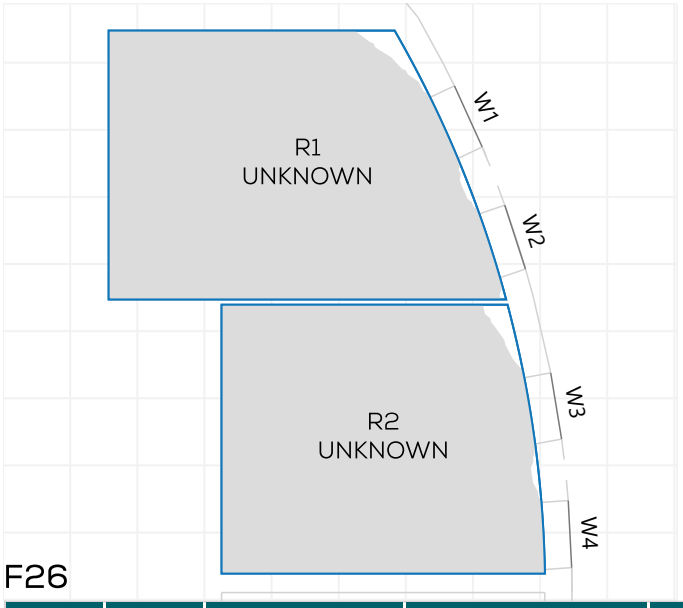




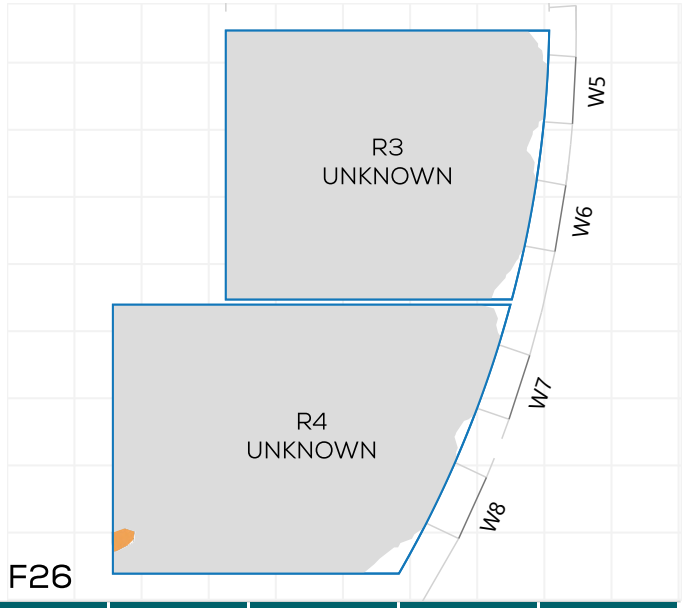
F25



F25



F26



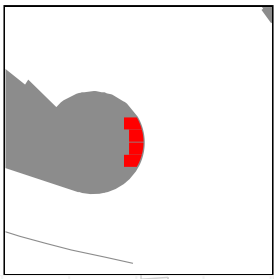
F26

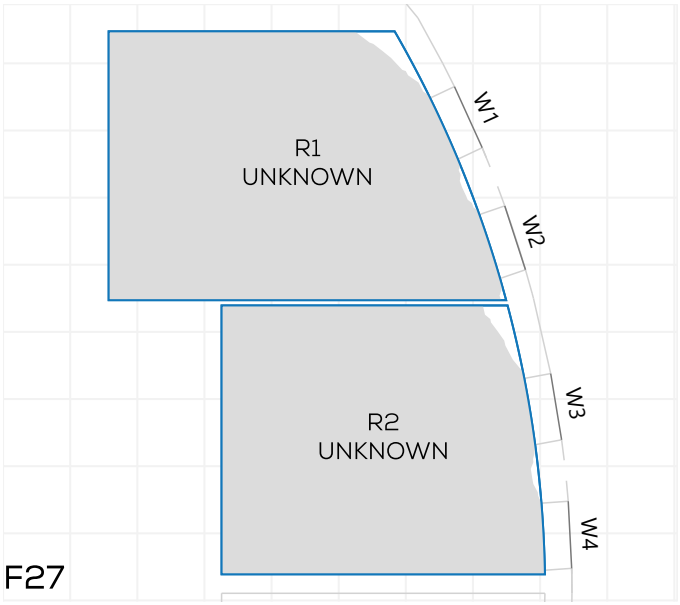
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F25	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F25	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F25	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F25	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98	0.1	0.4
F26	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F26	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F26	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F26	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98	0.1	0.4

NSL CONTOURS

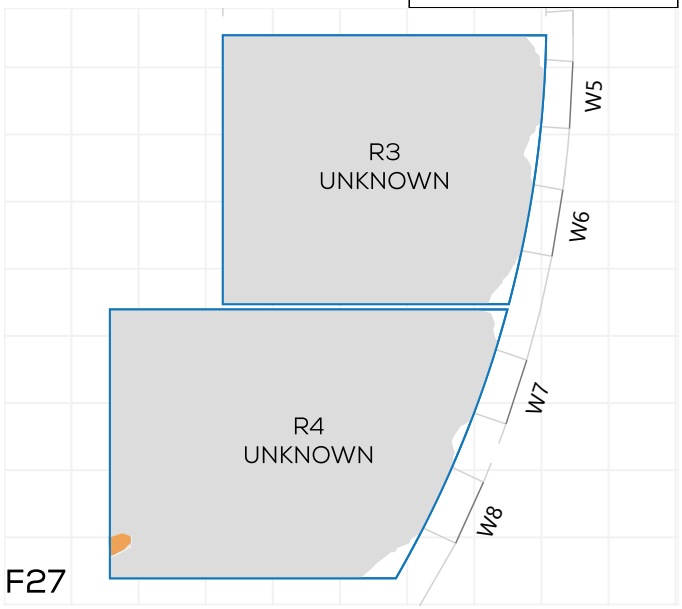
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD741

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

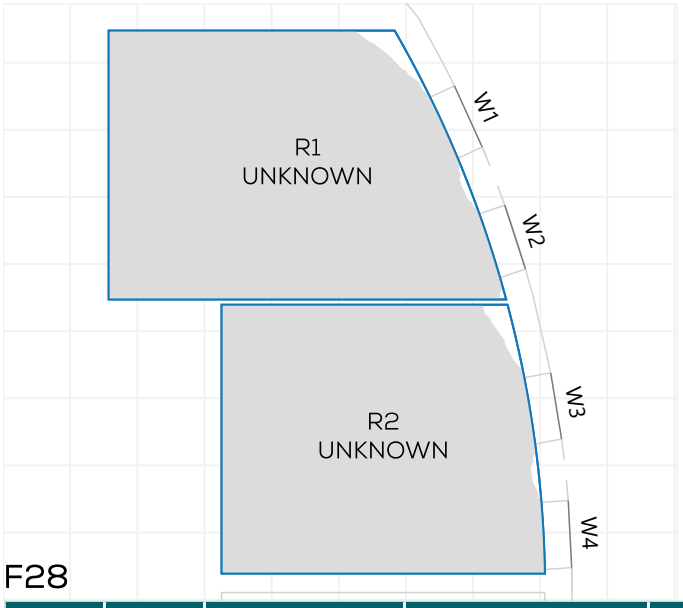




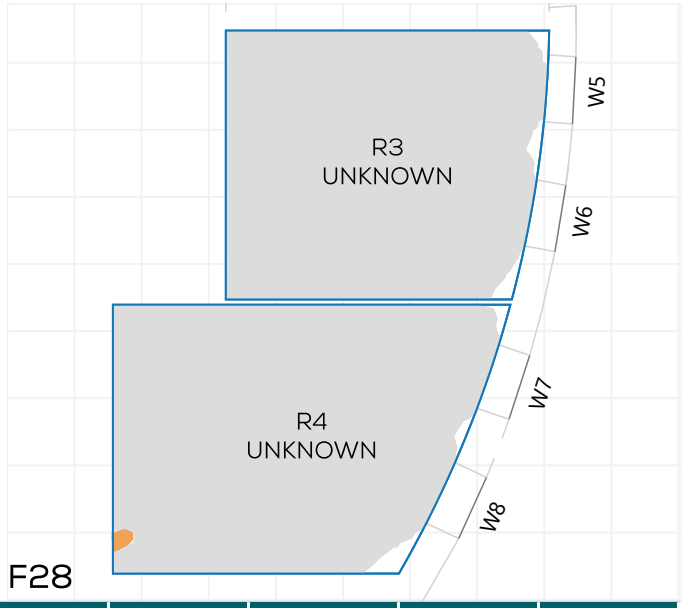
F27



F27



F28



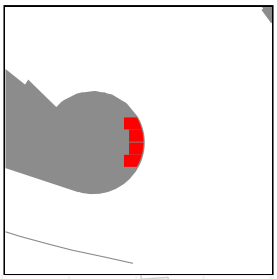
F28

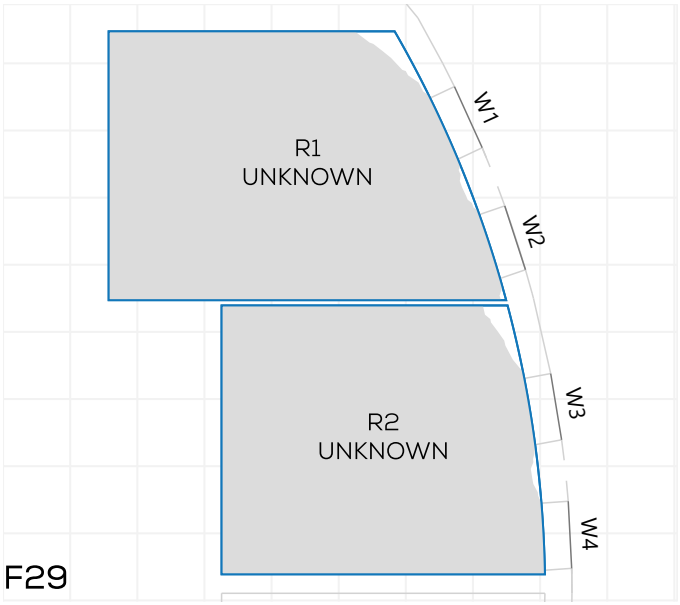
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F27	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F27	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F27	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F27	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98	0.1	0.4
F28	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F28	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F28	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F28	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98	0.1	0.4

NSL CONTOURS

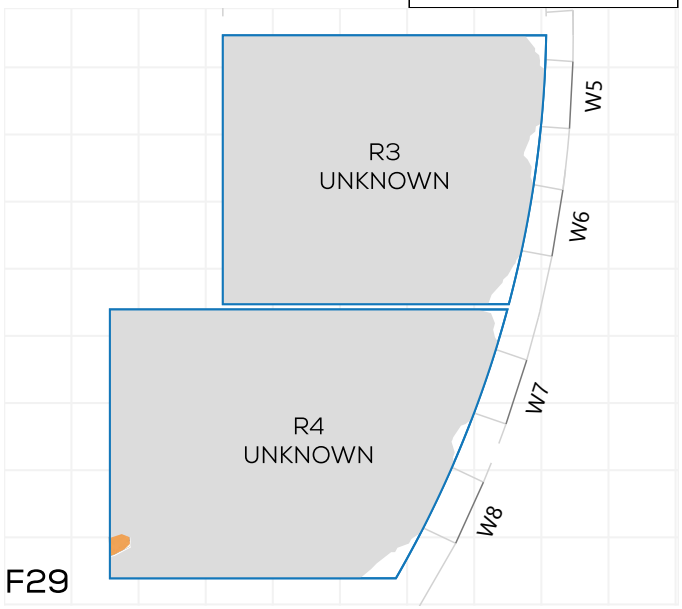
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD742

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

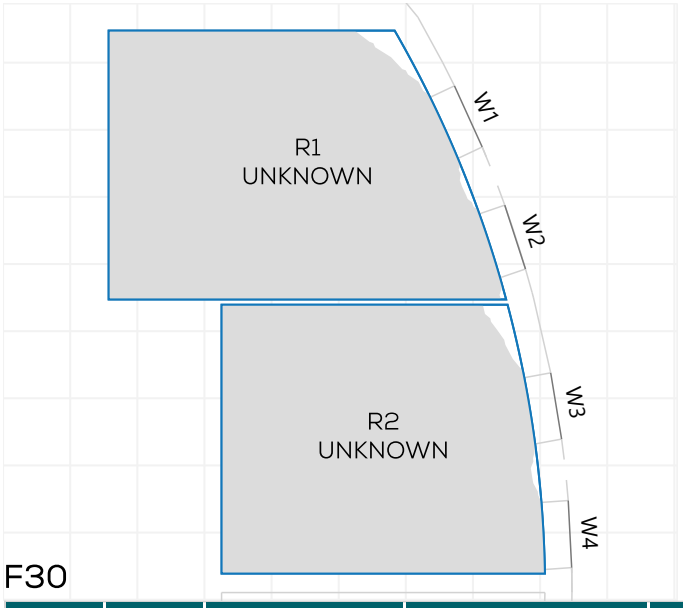




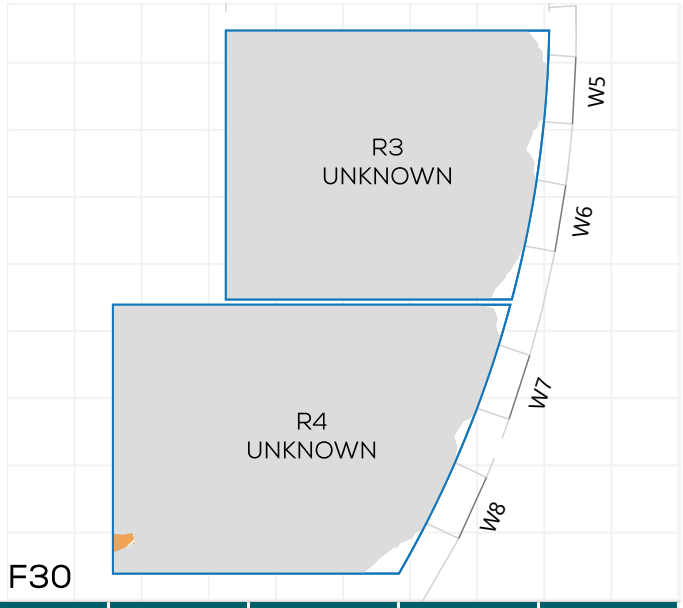
F29



F29



F30



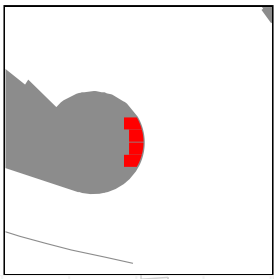
F30

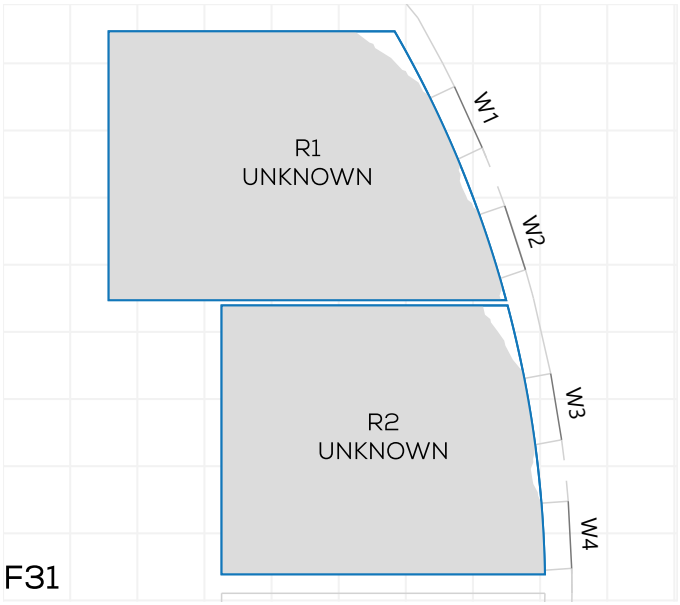
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F29	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F29	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F29	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F29	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98	0.1	0.4
F30	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F30	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F30	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F30	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.1	0.1	0.3

NSL CONTOURS

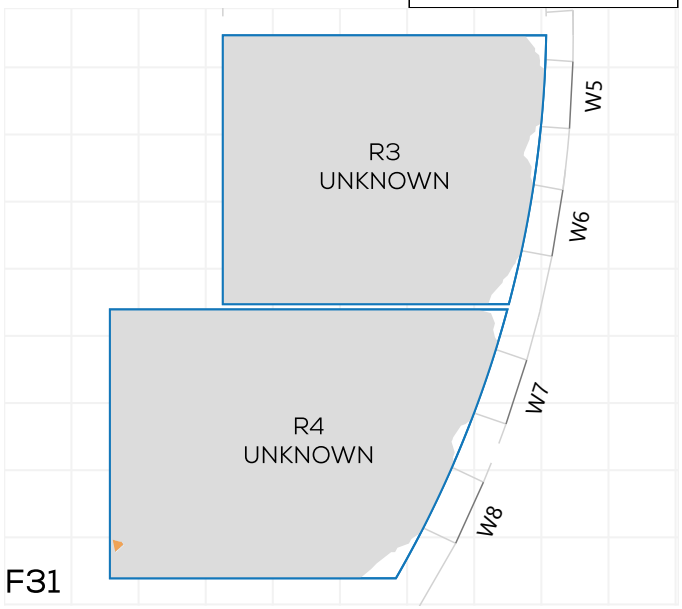
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD743

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

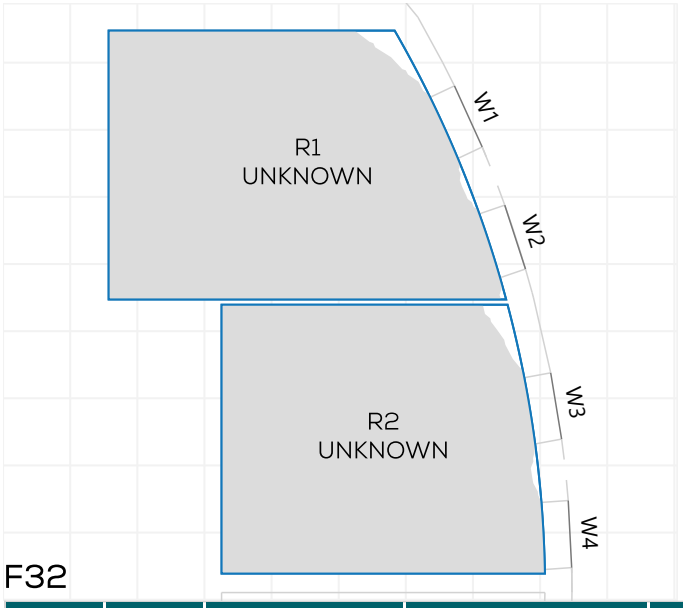




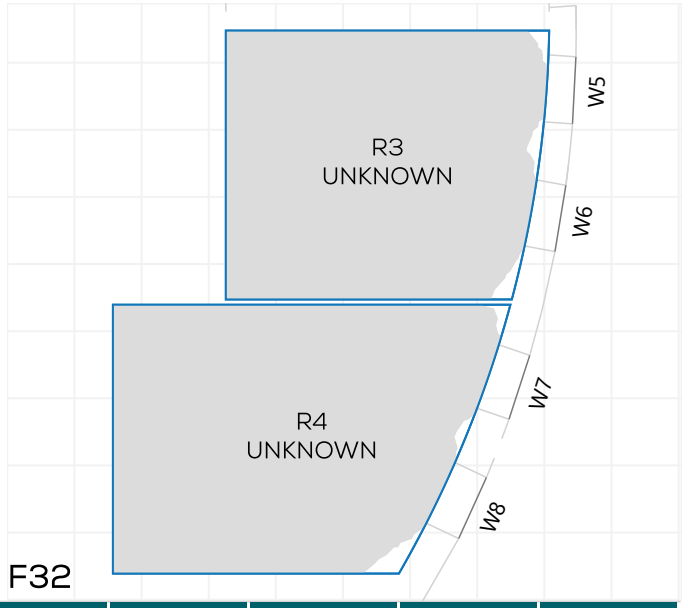
F31



F31



F32



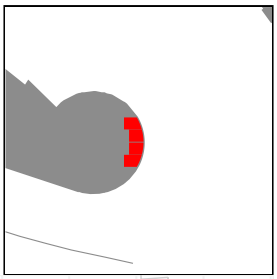
F32

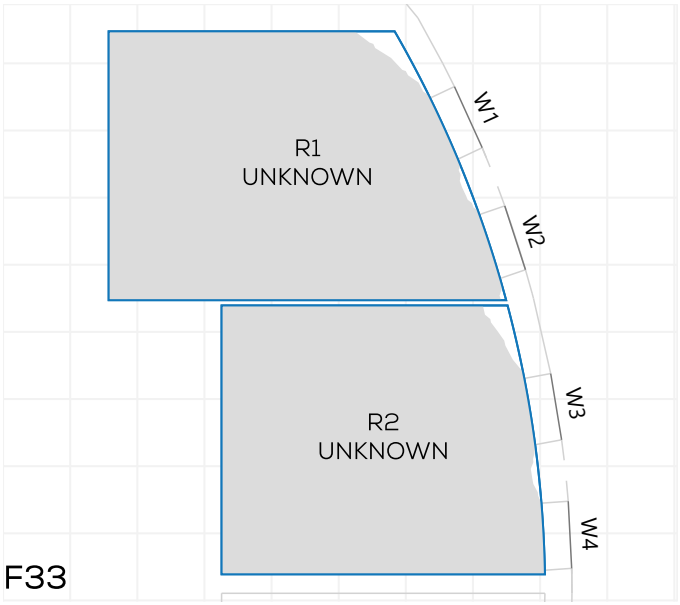
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F31	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F31	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F31	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F31	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.3	0.0	0.1
F32	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F32	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F32	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F32	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0

NSL CONTOURS

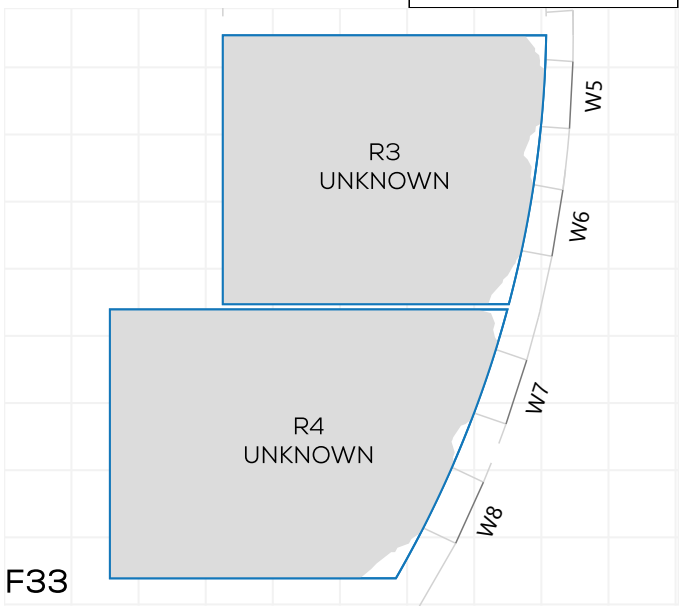
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD744

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

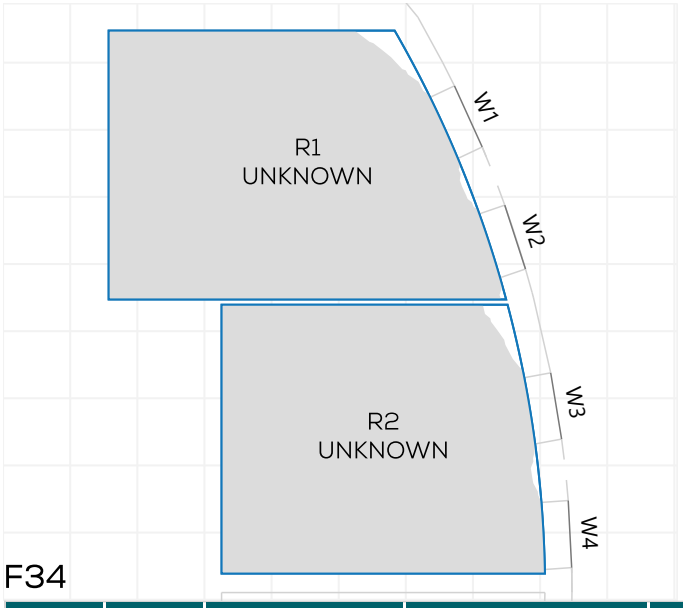




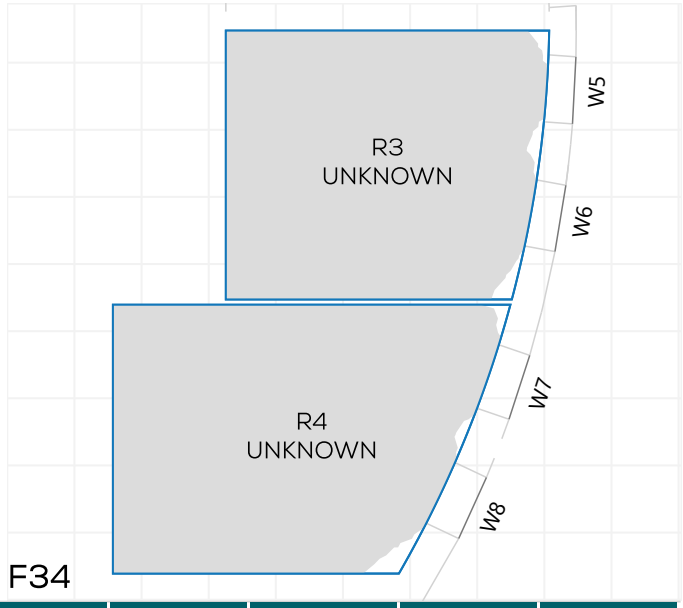
F33



F33



F34



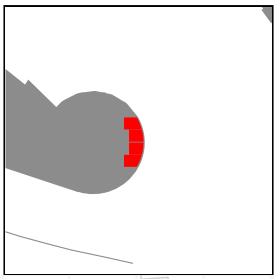
F34

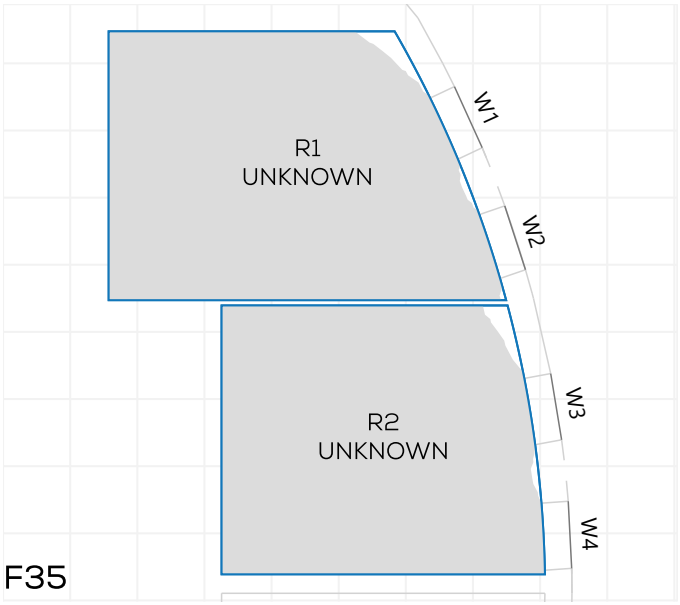
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F33	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F33	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F33	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F33	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0
F34	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F34	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F34	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F34	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0

NSL CONTOURS

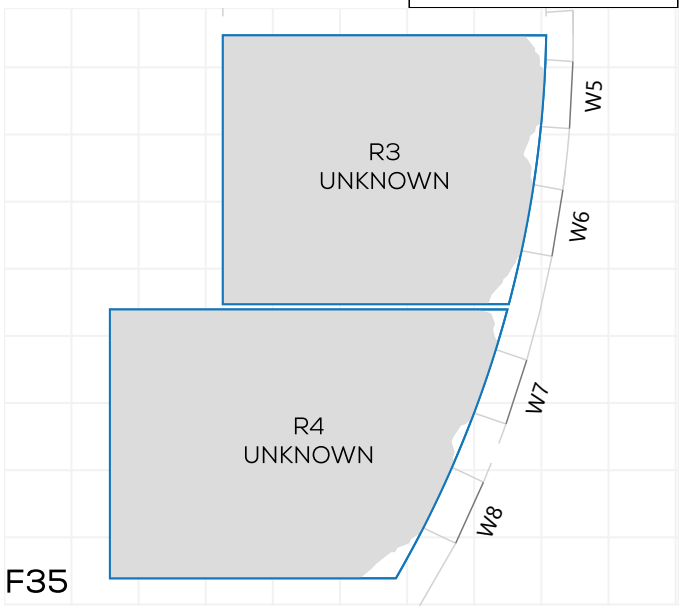
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD745

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

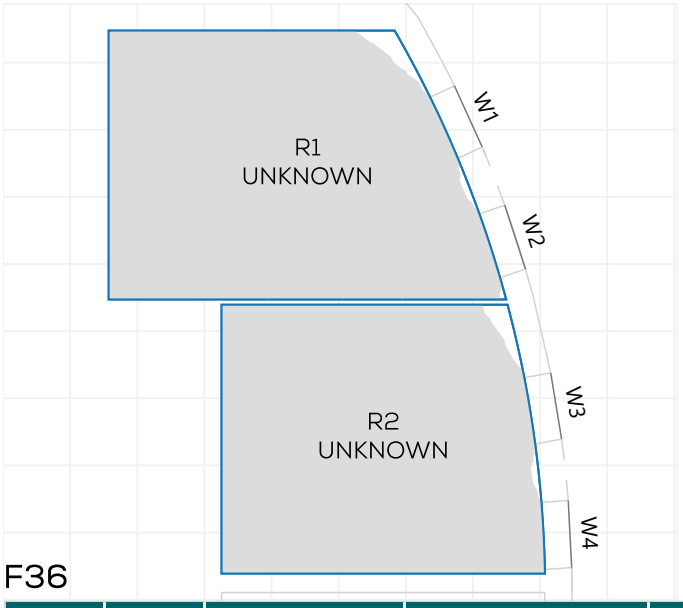




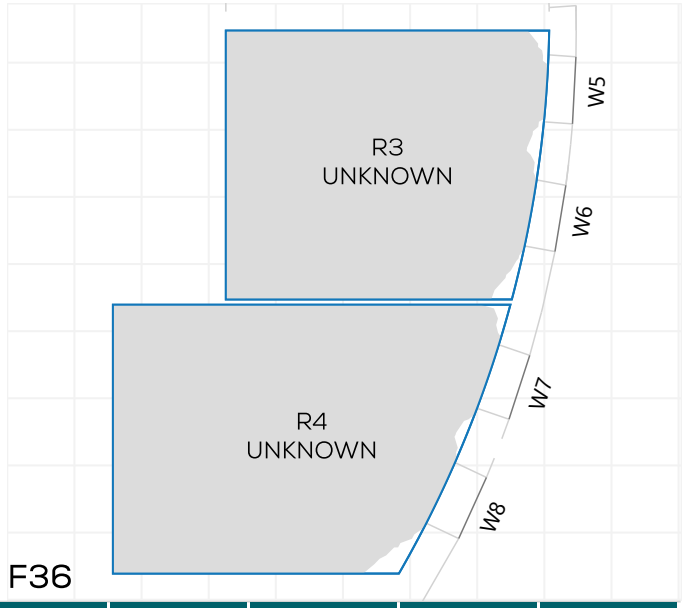
F35



F35



F36



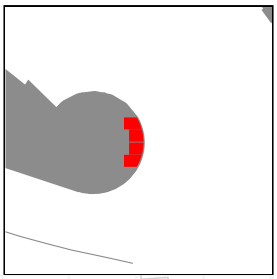
F36

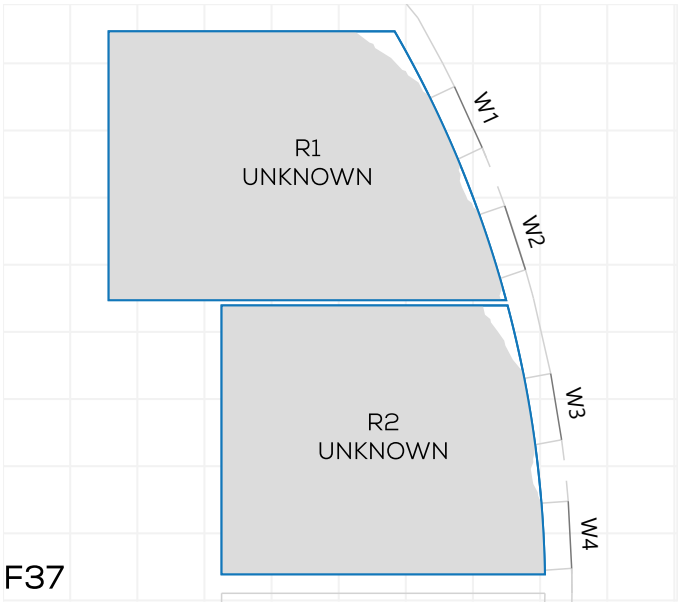
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F35	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F35	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F35	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F35	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0
F36	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F36	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F36	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F36	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0

NSL CONTOURS

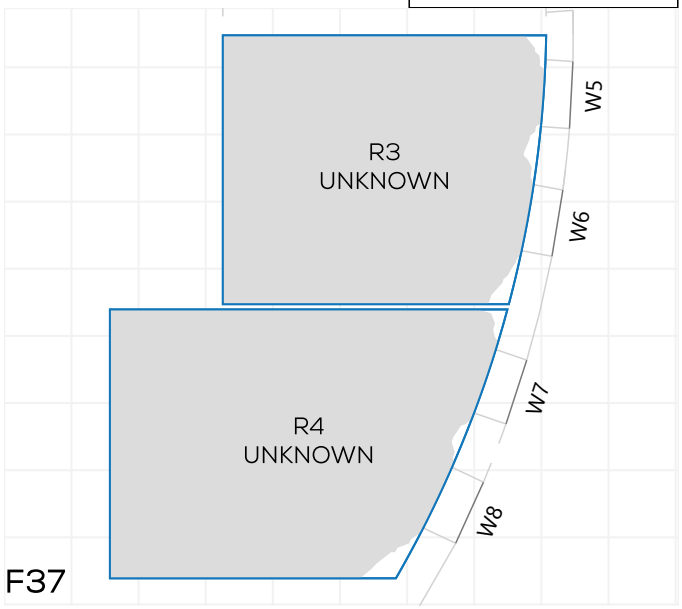
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD746

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

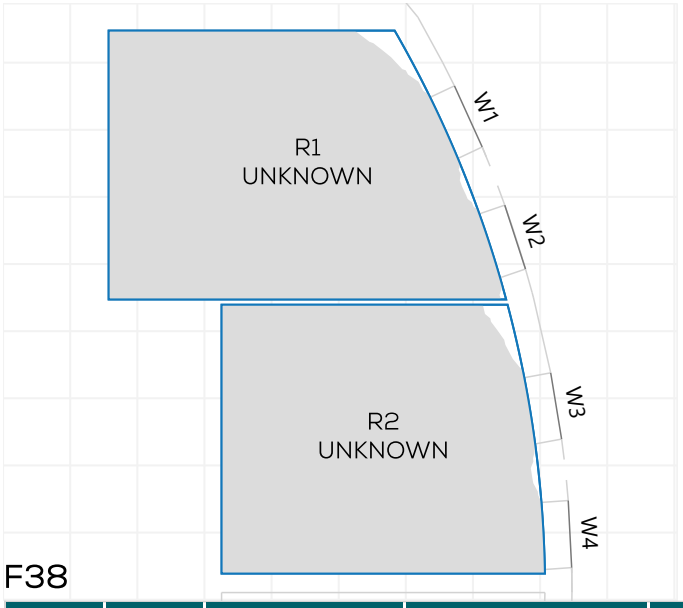




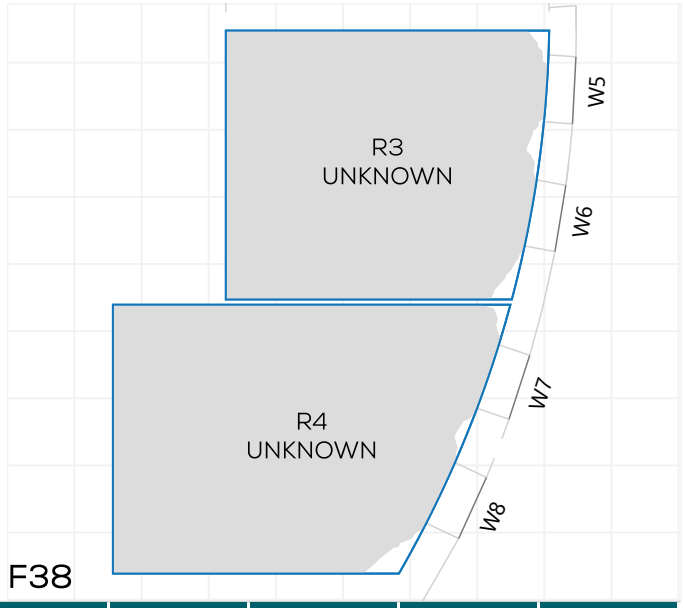
F37



F37



F38



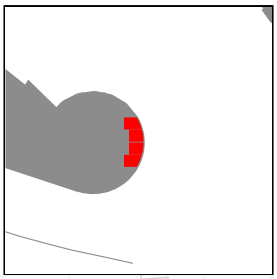
F38

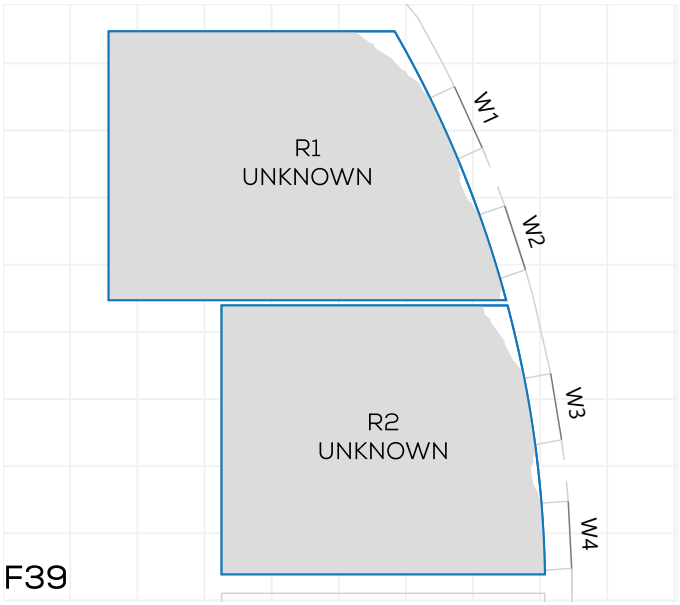
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F37	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F37	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F37	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F37	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0
F38	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F38	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F38	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F38	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0

NSL CONTOURS

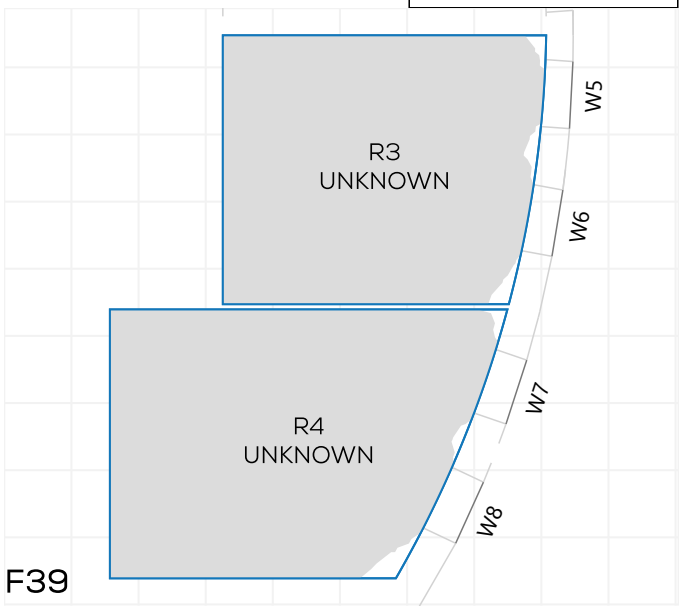
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD747

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

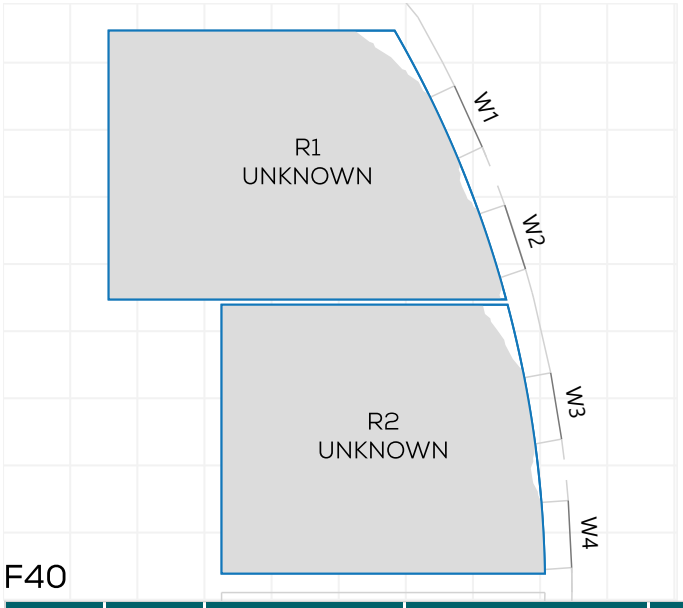




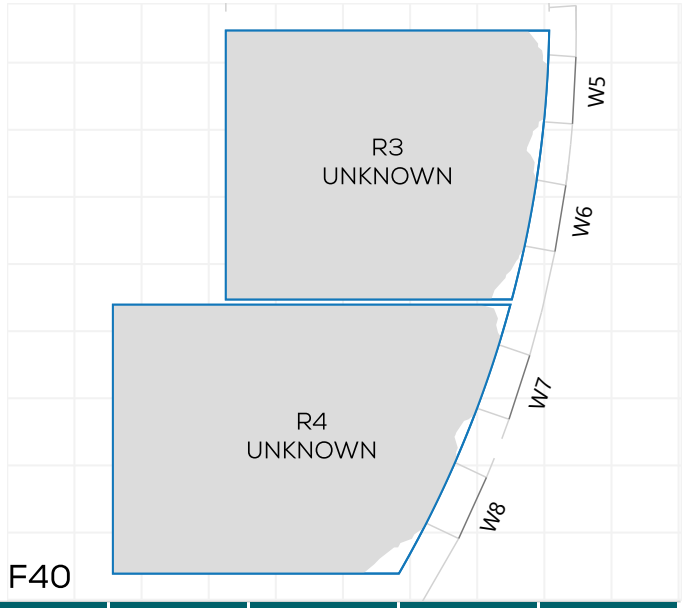
F39



F39



F40



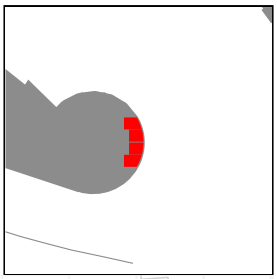
F40

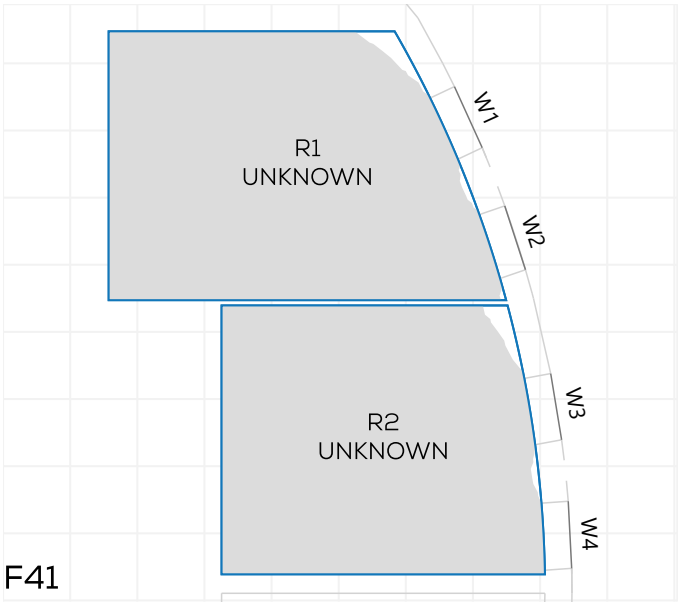
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F39	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F39	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F39	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F39	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0
F40	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F40	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F40	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F40	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0

NSL CONTOURS

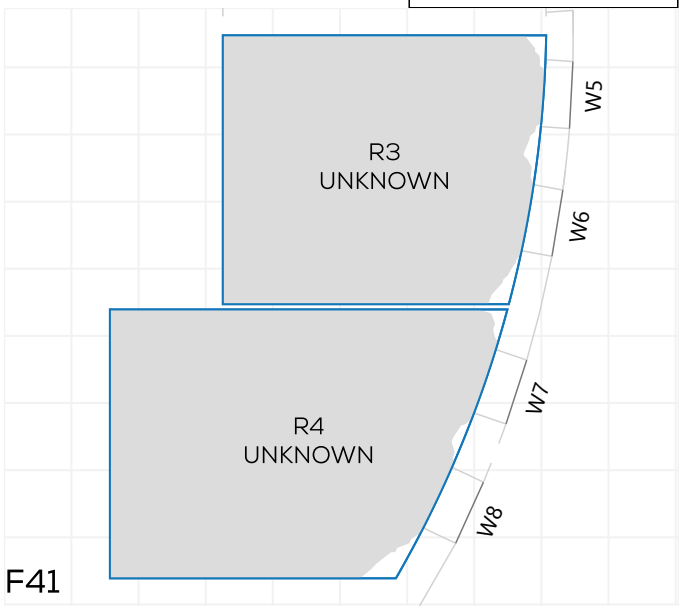
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD748

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

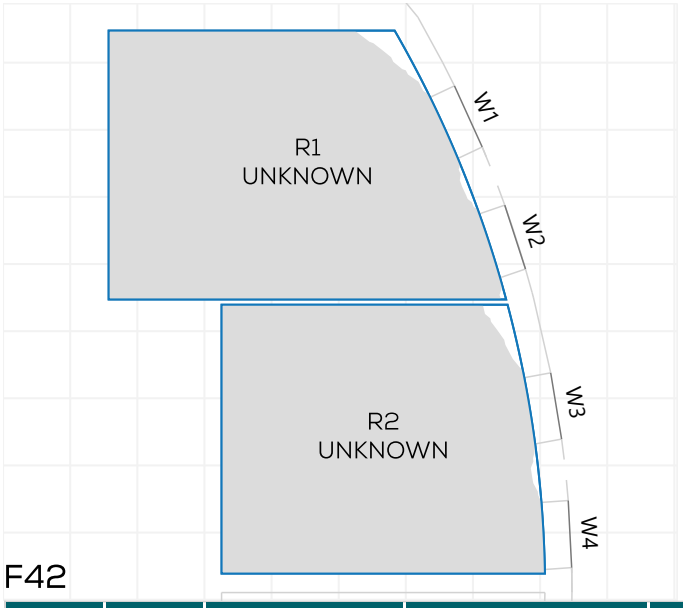




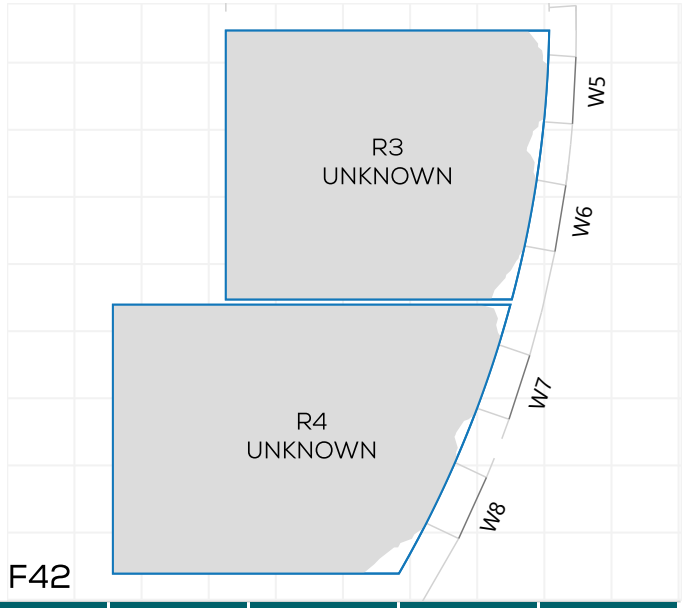
F41



F41



F42



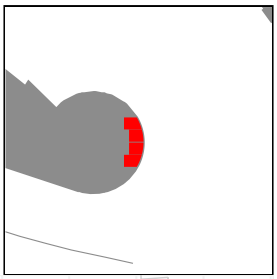
F42

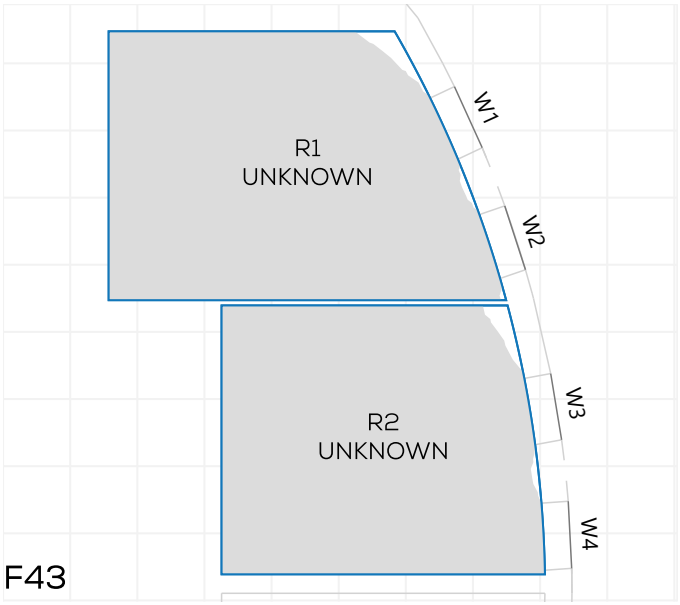
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F41	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F41	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F41	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F41	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0
F42	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F42	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F42	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F42	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0

NSL CONTOURS

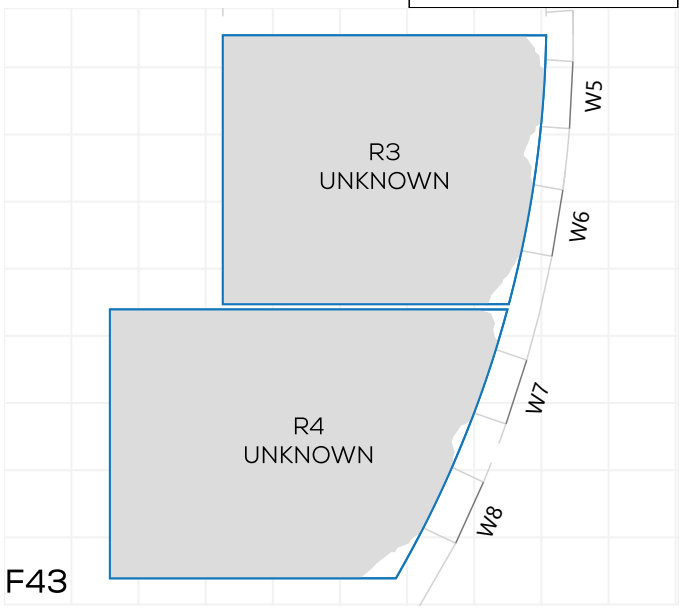
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD749

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

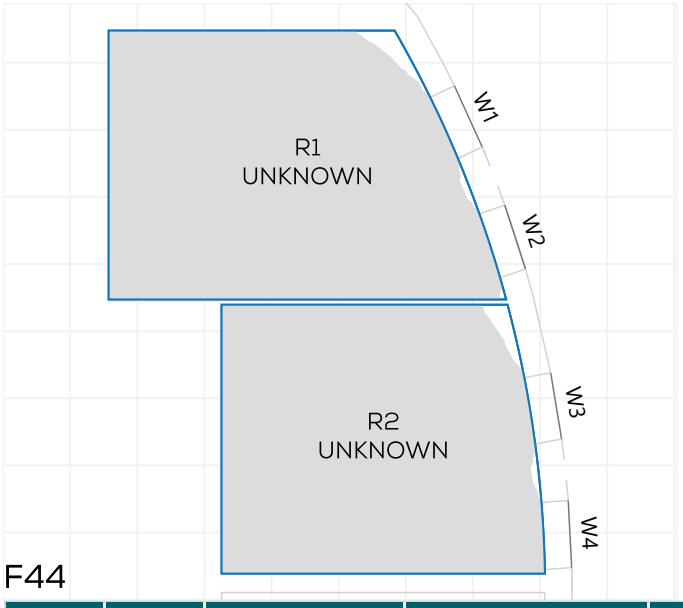




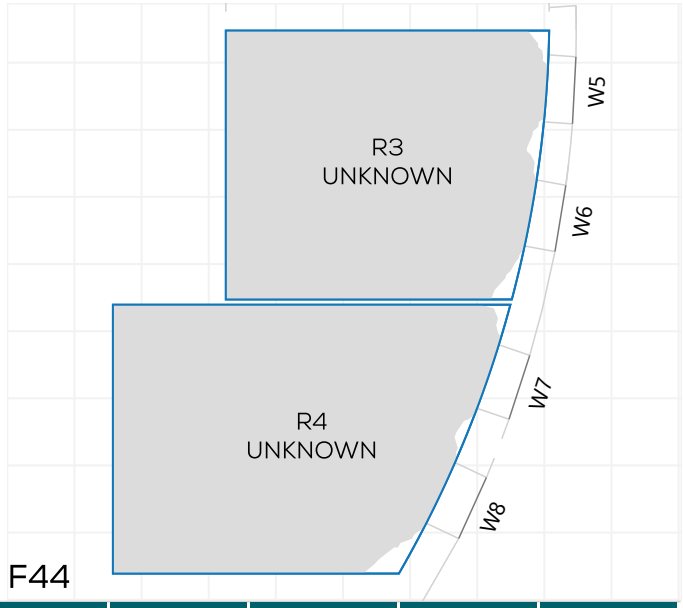
F43



F43



F44



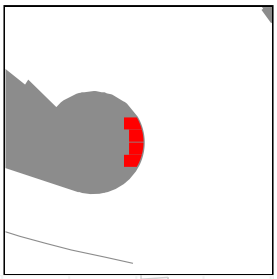
F44

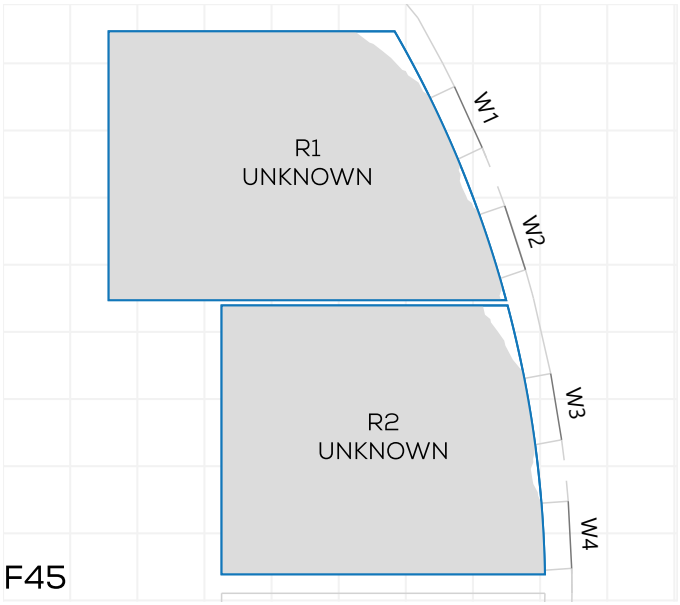
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F43	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F43	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F43	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F43	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0
F44	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F44	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F44	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F44	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0

NSL CONTOURS

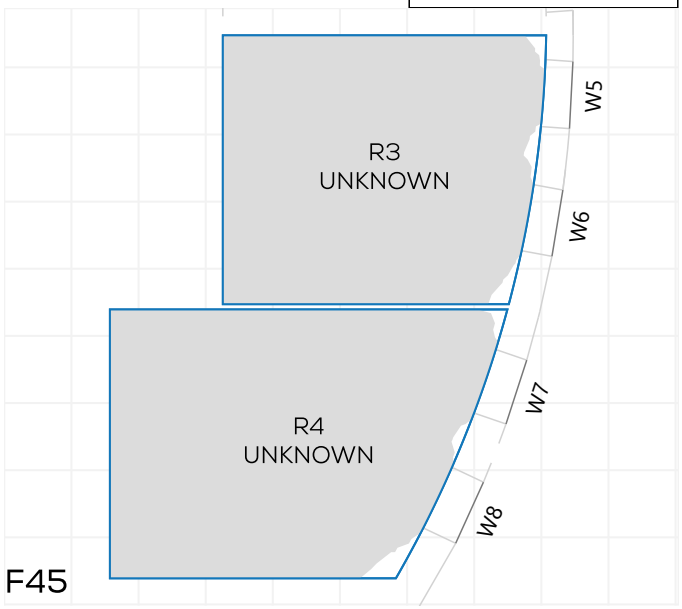
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD750

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

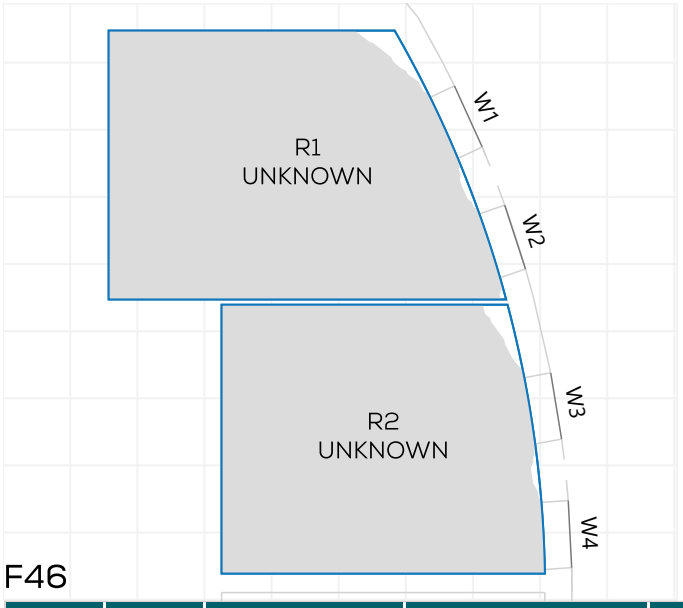




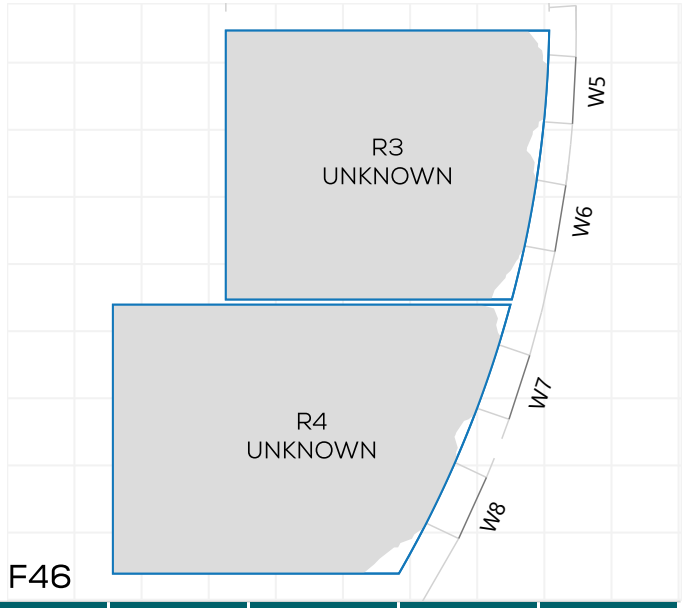
F45



F45



F46



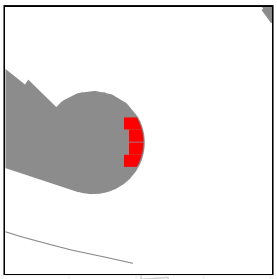
F46

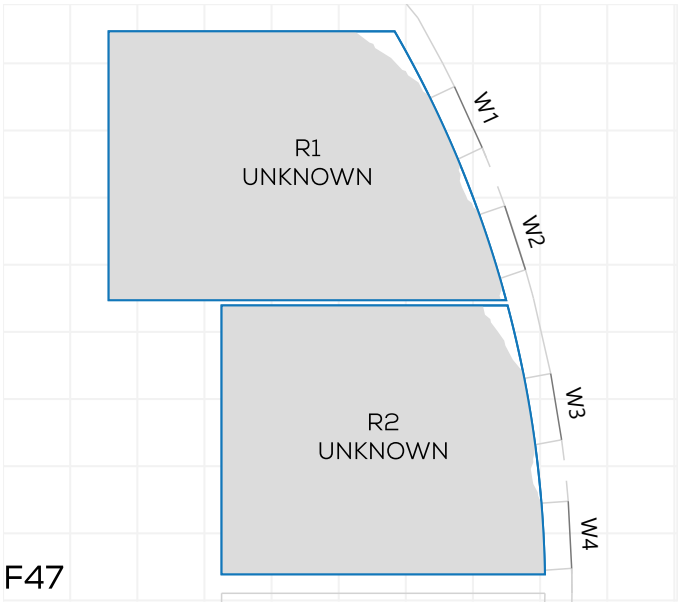
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F45	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F45	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F45	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F45	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0
F46	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F46	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F46	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F46	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0

NSL CONTOURS

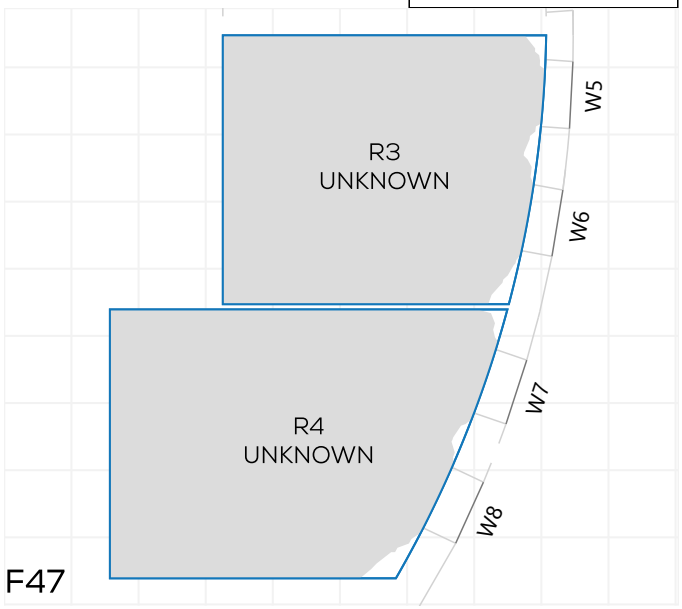
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE CIRCLE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD751

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID

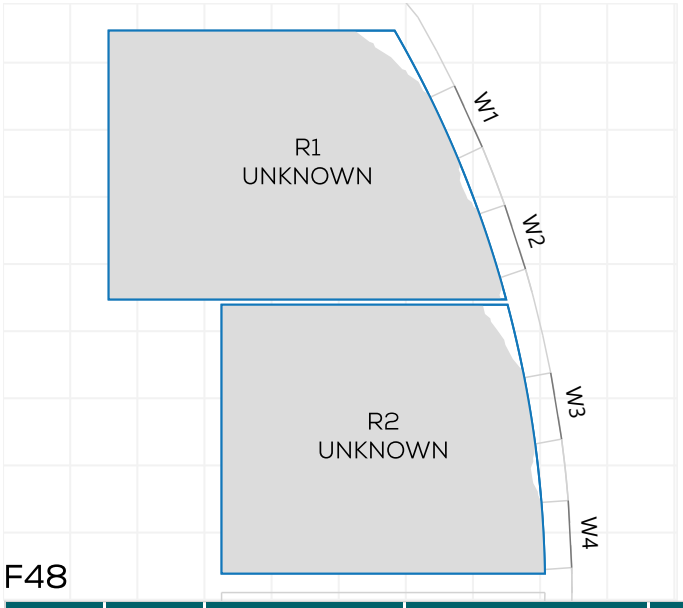




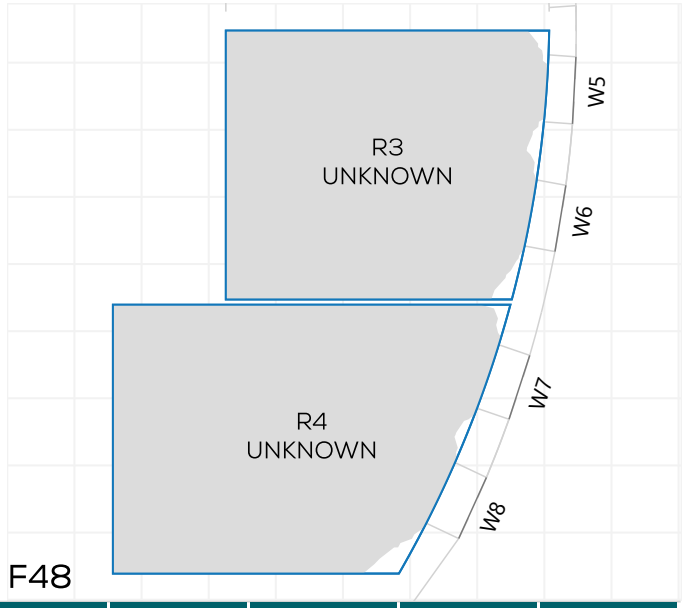
F47



F47



F48



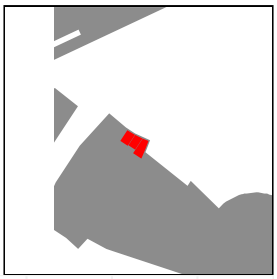
F48

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE CIRCLE								
F47	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F47	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F47	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F47	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0
F48	R1	RESIDENTIAL	UNKNOWN	20.8	98.5	98.5	0.0	0
F48	R2	RESIDENTIAL	UNKNOWN	18.5	98.6	98.6	0.0	0
F48	R3	RESIDENTIAL	UNKNOWN	18.5	98.4	98.4	0.0	0
F48	R4	RESIDENTIAL	UNKNOWN	20.8	98.4	98.4	0.0	0

NSL CONTOURS

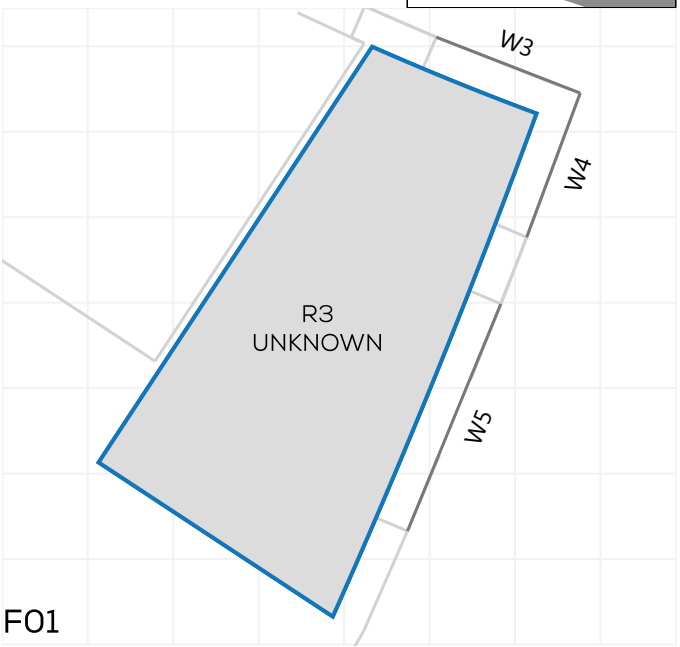
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD752

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

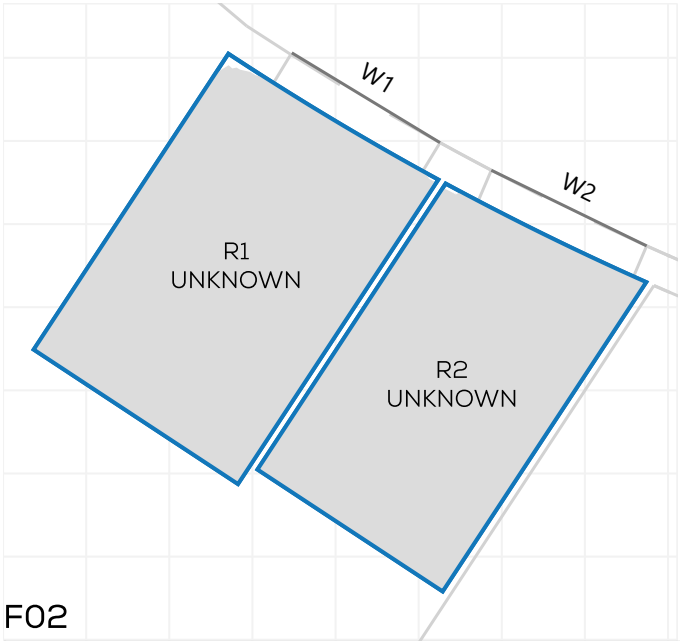




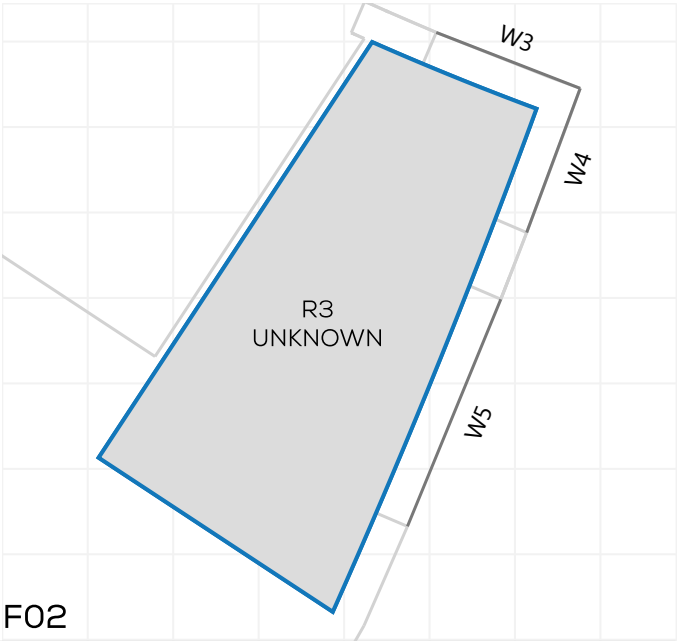
F01



F01



F02



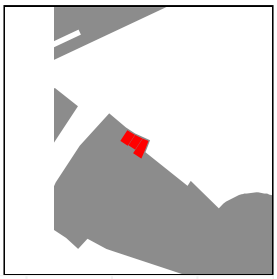
F02

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F01	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F01	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F01	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F02	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F02	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F02	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

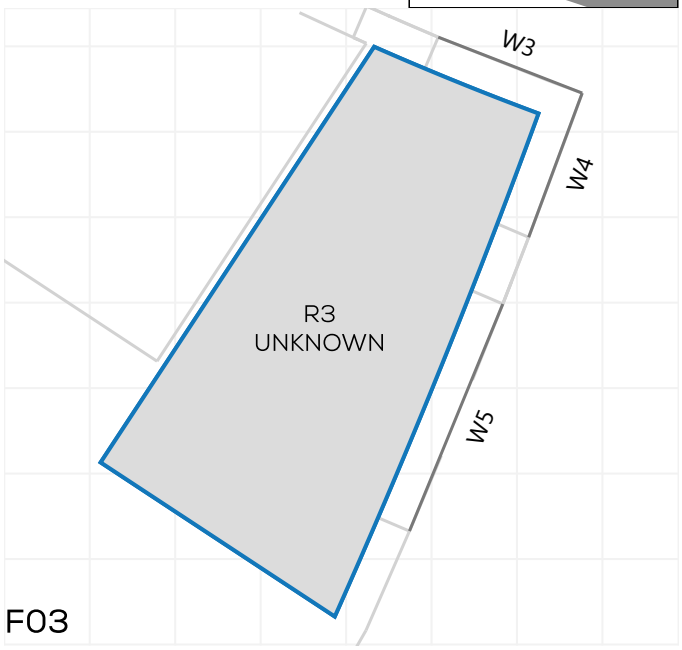
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD753

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





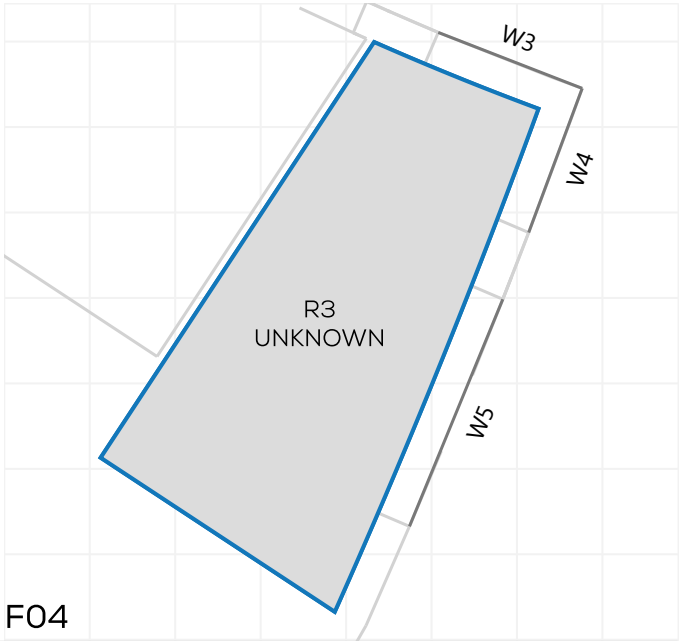
F03



F03



F04



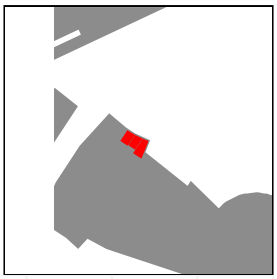
F04

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F03	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F03	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F03	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F04	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F04	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F04	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

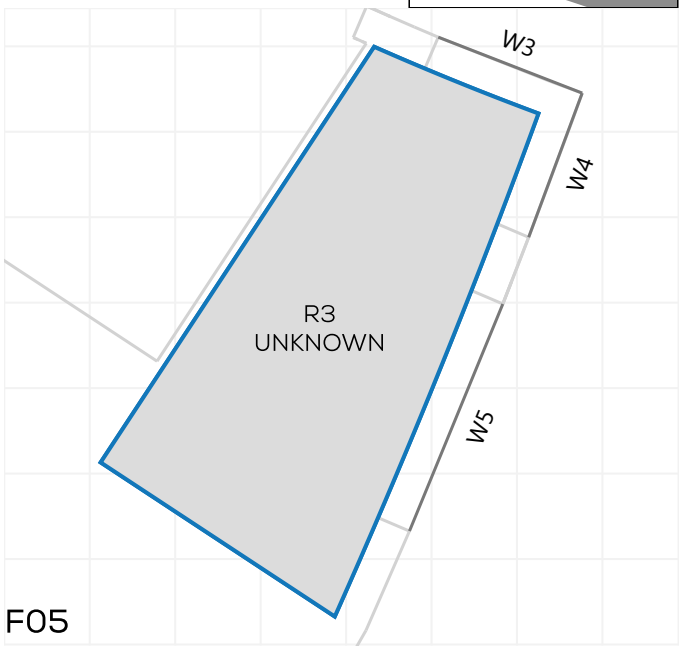
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD754

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F05



F05



F06



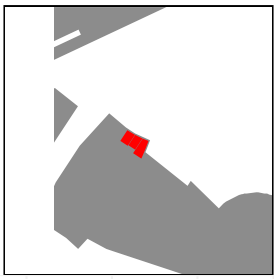
F06

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F05	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F05	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F05	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F06	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F06	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F06	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

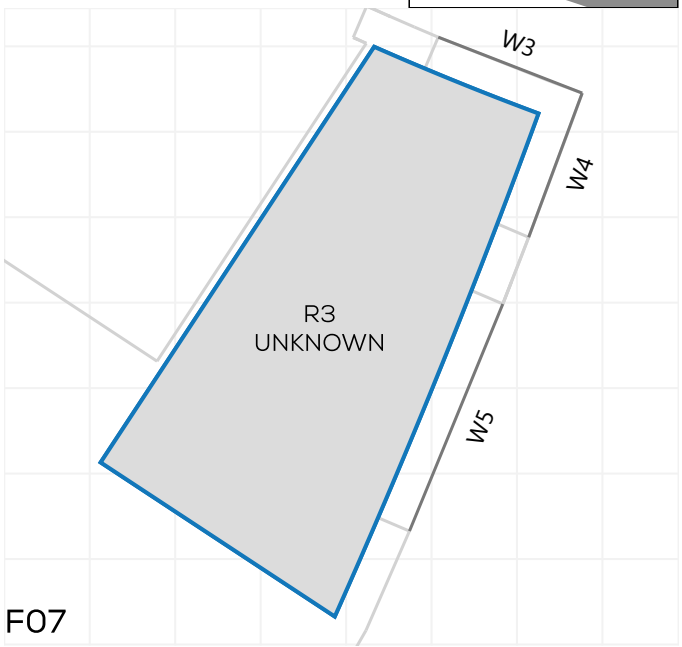
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD755

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

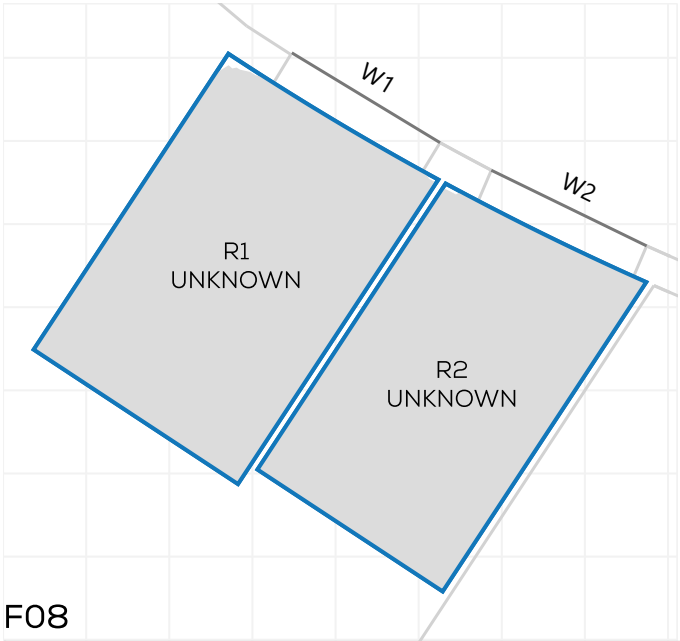




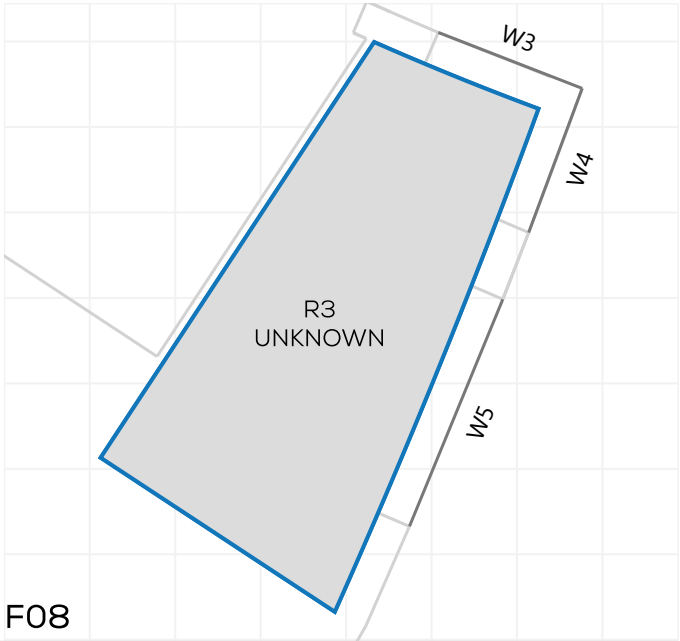
F07



F07



F08



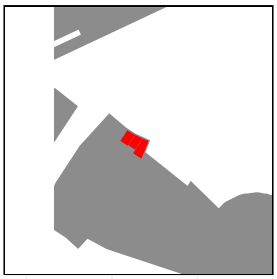
F08

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F07	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F07	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F07	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F08	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F08	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F08	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

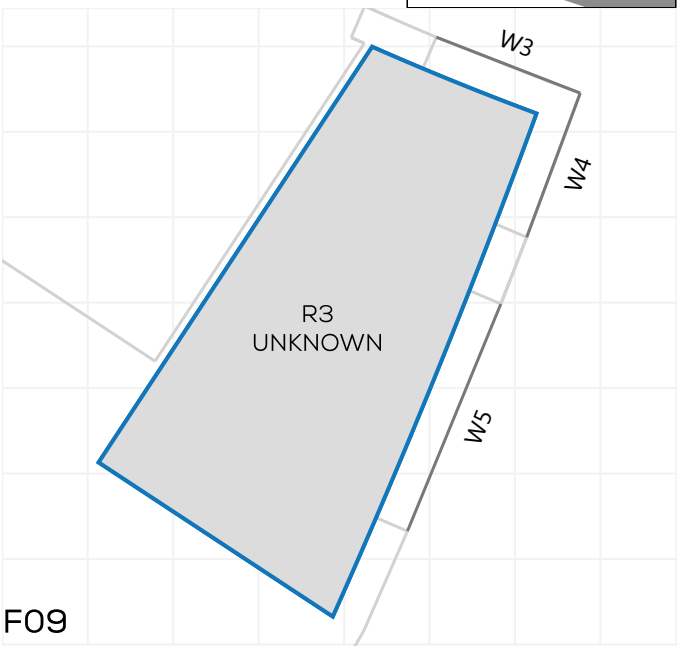
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD756

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





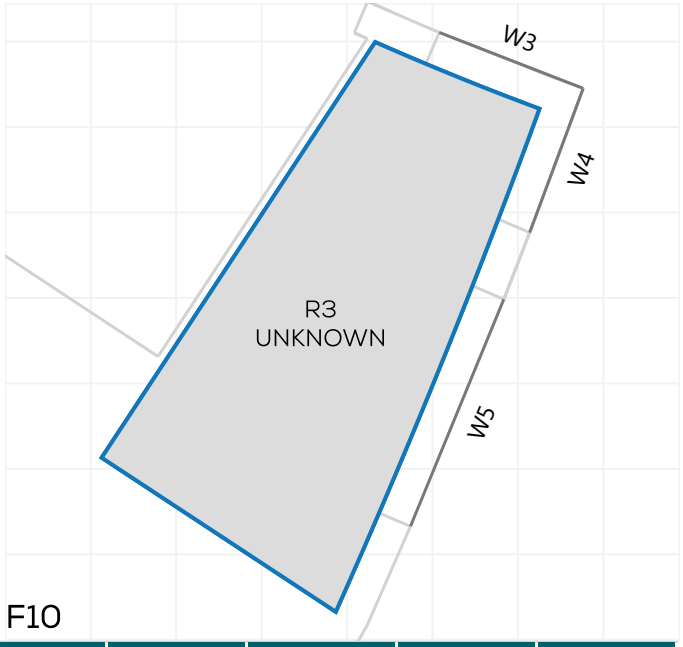
F09



F09



F10



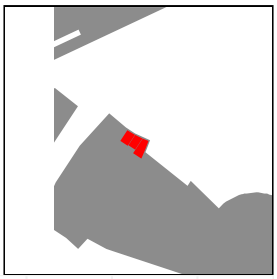
F10

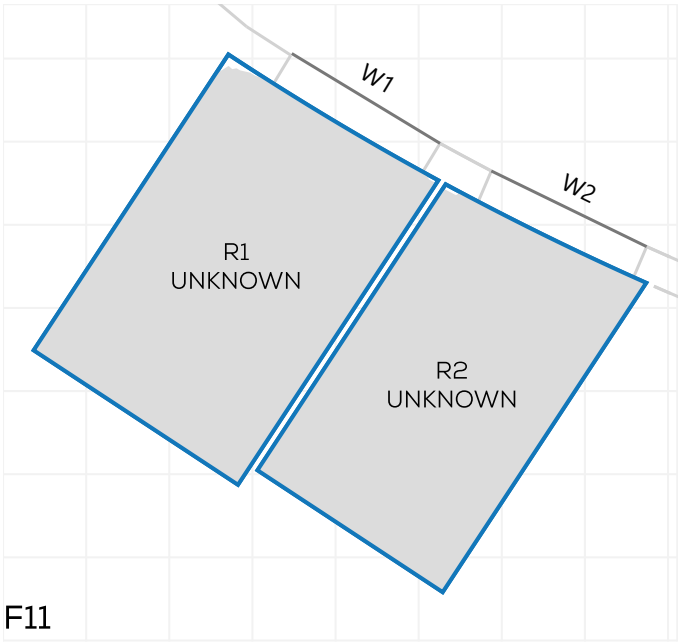
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F09	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F09	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F09	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F10	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F10	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F10	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

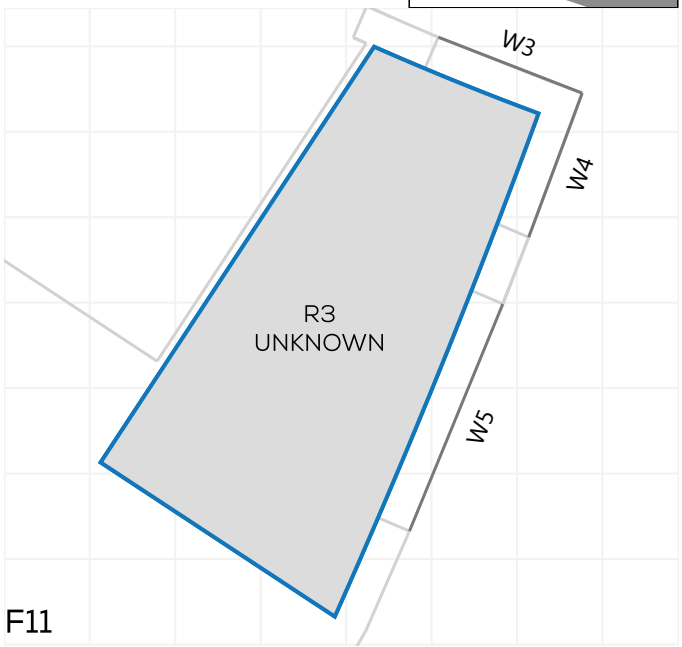
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD757

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

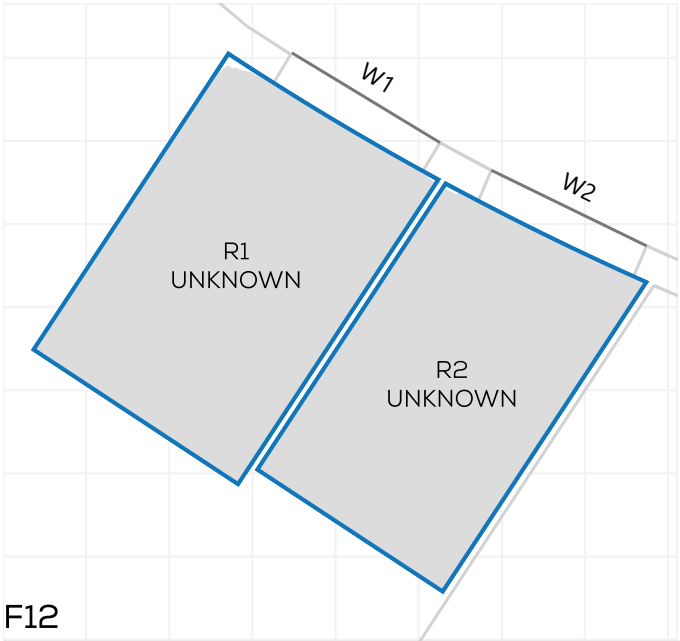




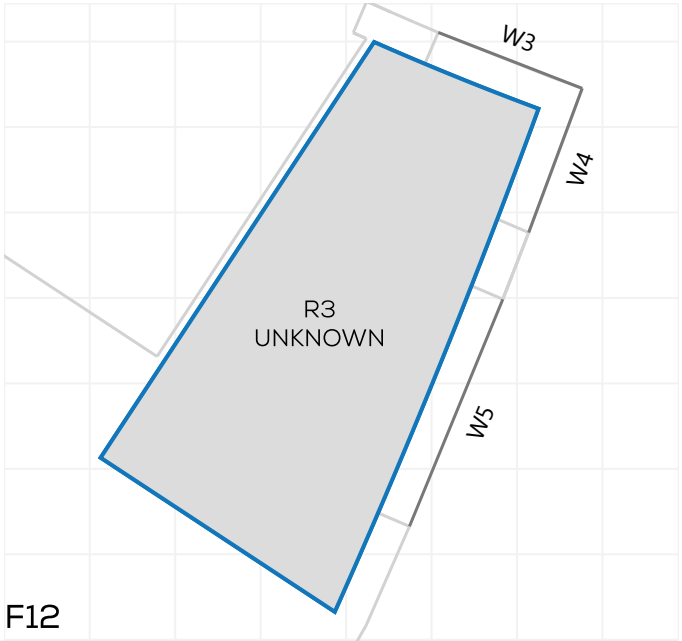
F11



F11



F12



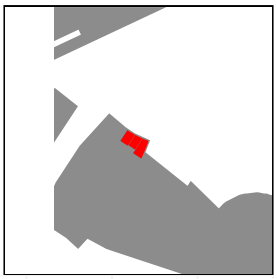
F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F11	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F11	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F11	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F12	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F12	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F12	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

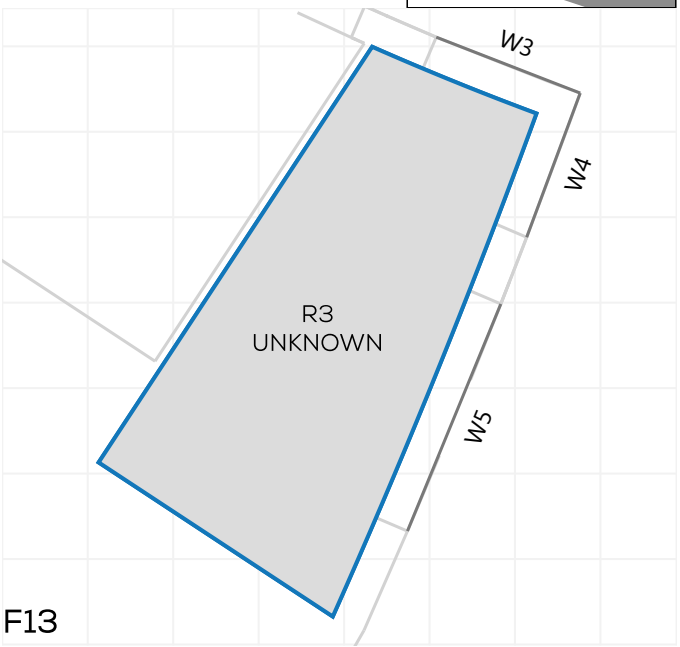
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD758

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

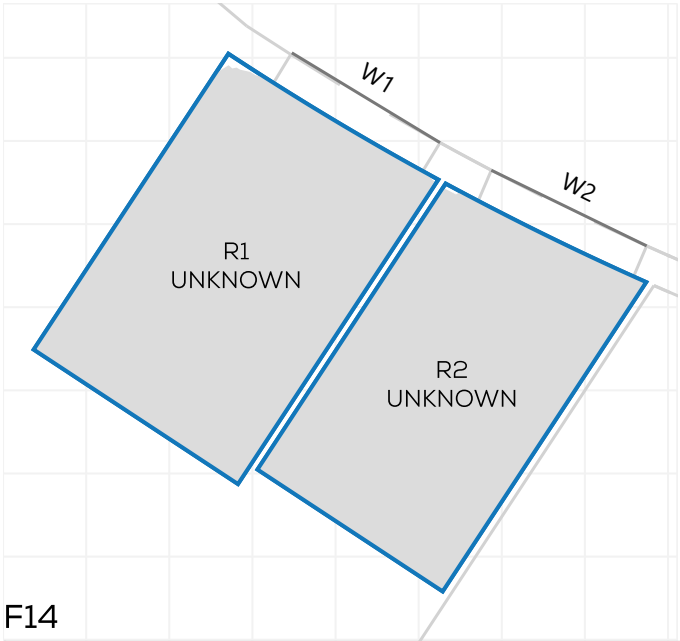




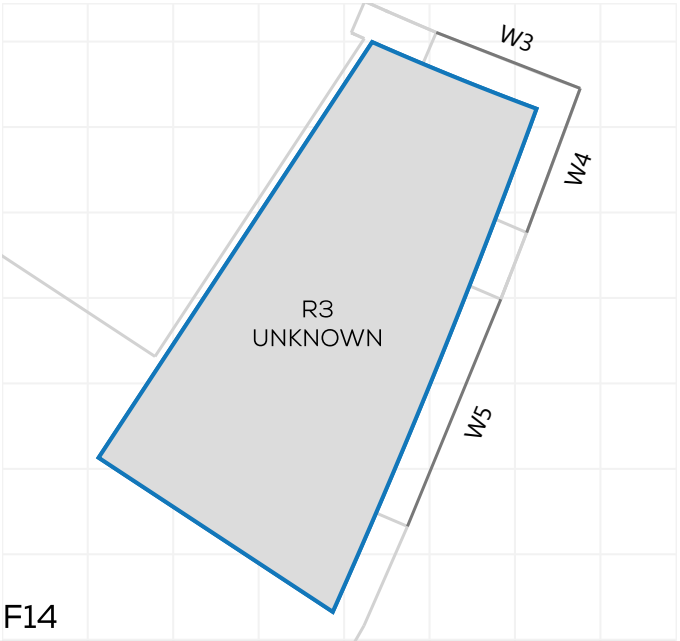
F13



F13



F14



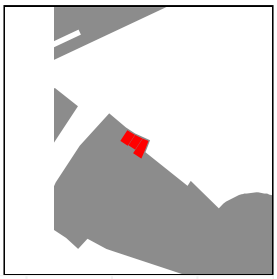
F14

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F13	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F13	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F13	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F14	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F14	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F14	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

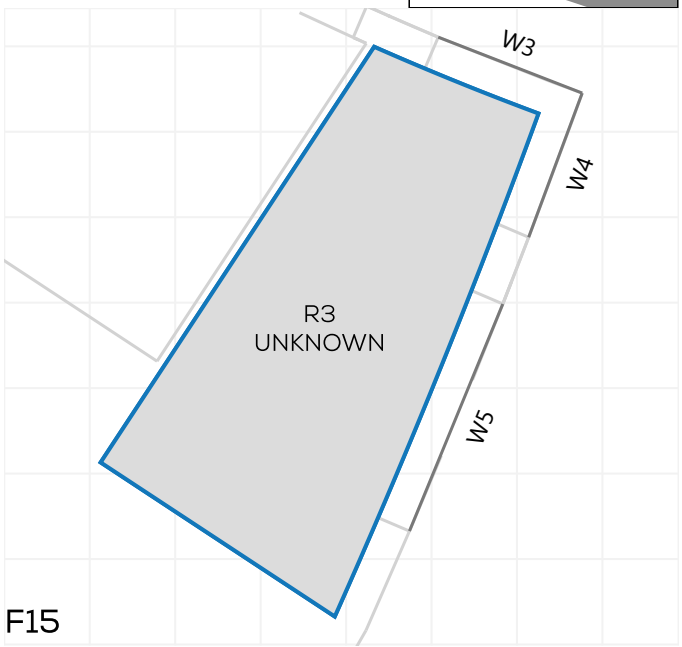
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD759

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





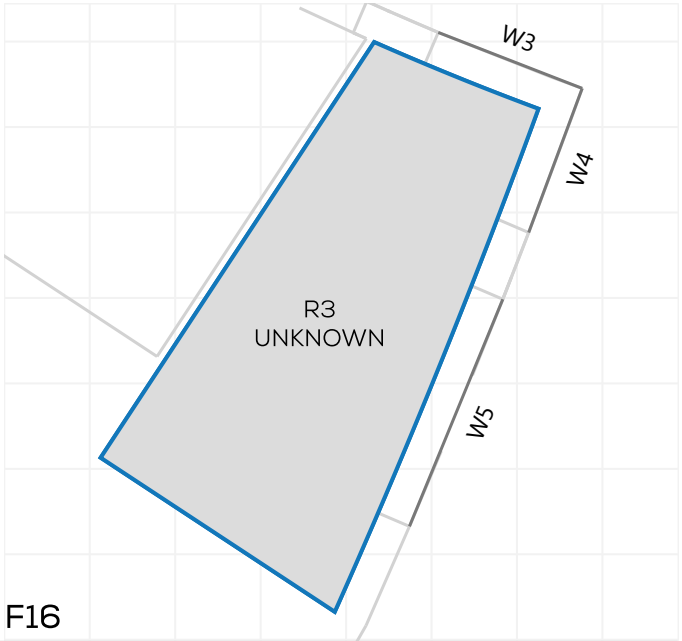
F15



F15



F16



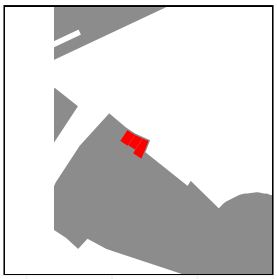
F16

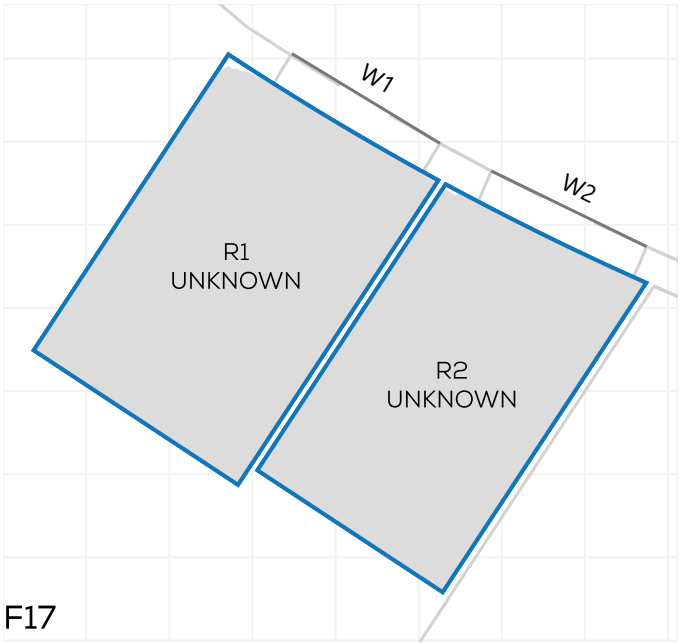
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F15	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F15	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F15	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F16	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F16	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F16	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

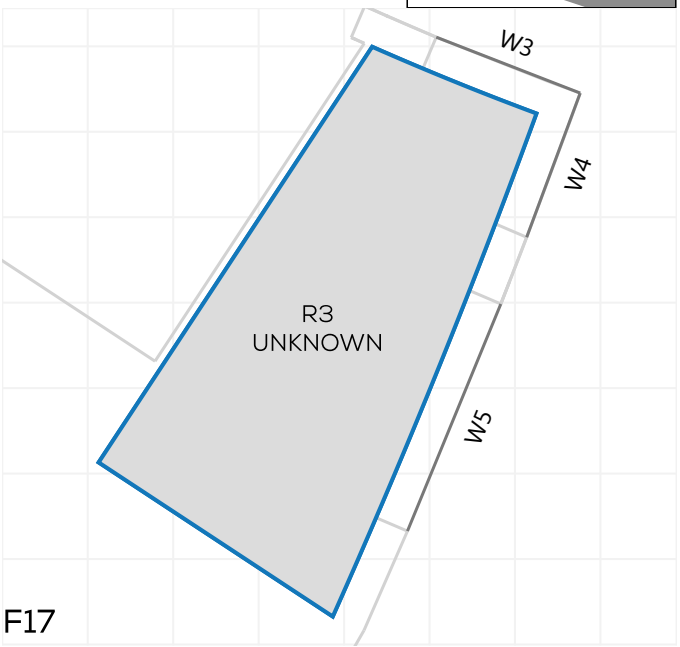
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD760

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

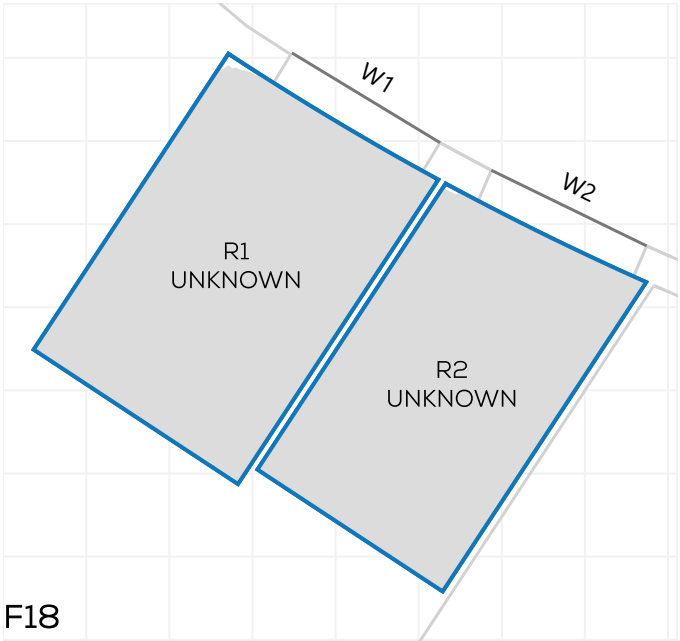




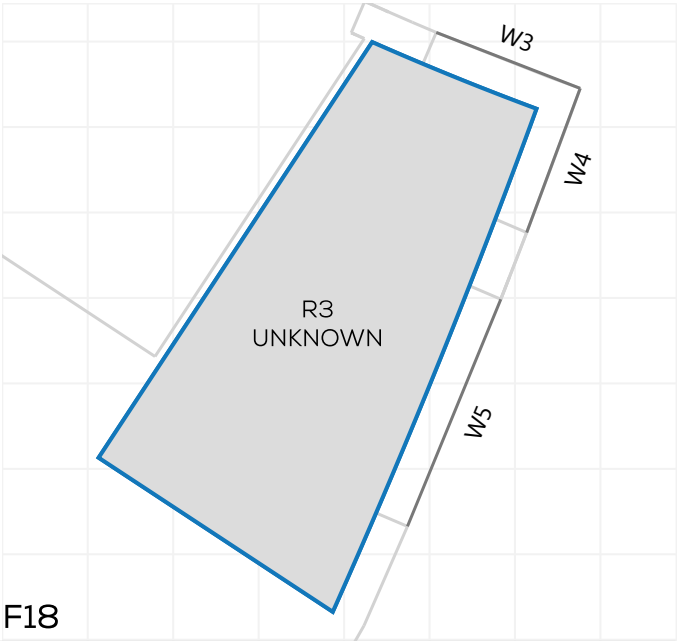
F17



F17



F18



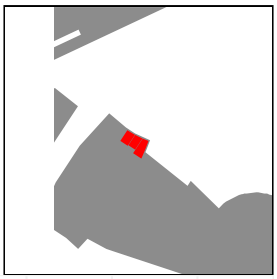
F18

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F17	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F17	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F17	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F18	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F18	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F18	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

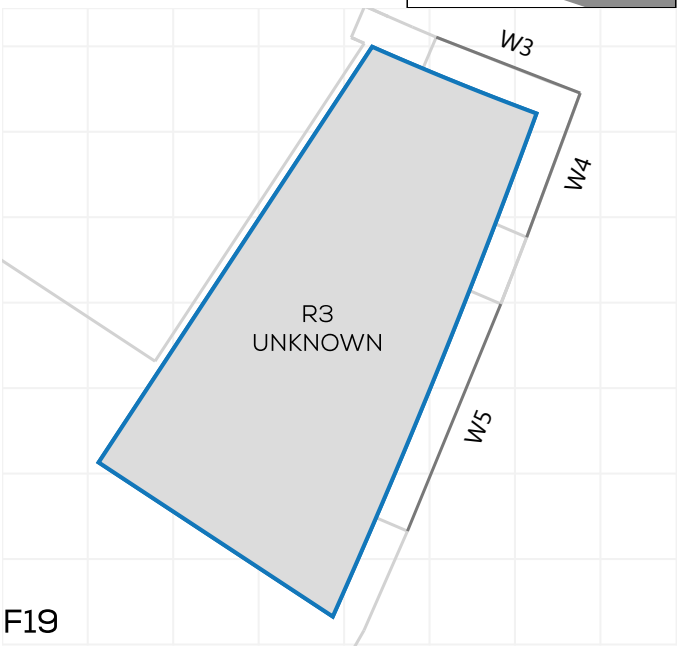
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD761

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





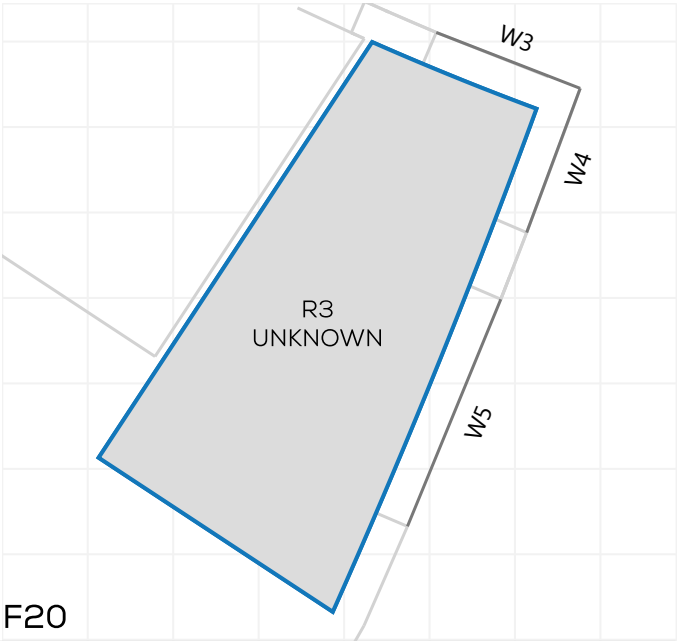
F19



F19



F20



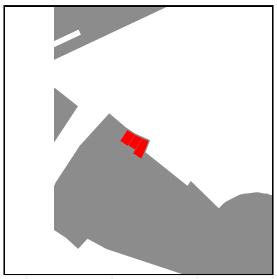
F20

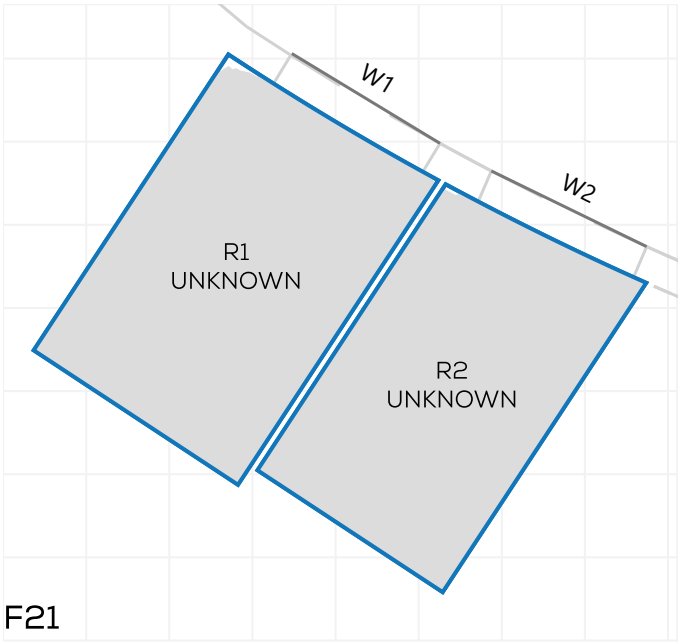
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F19	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F19	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F19	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F20	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F20	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F20	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

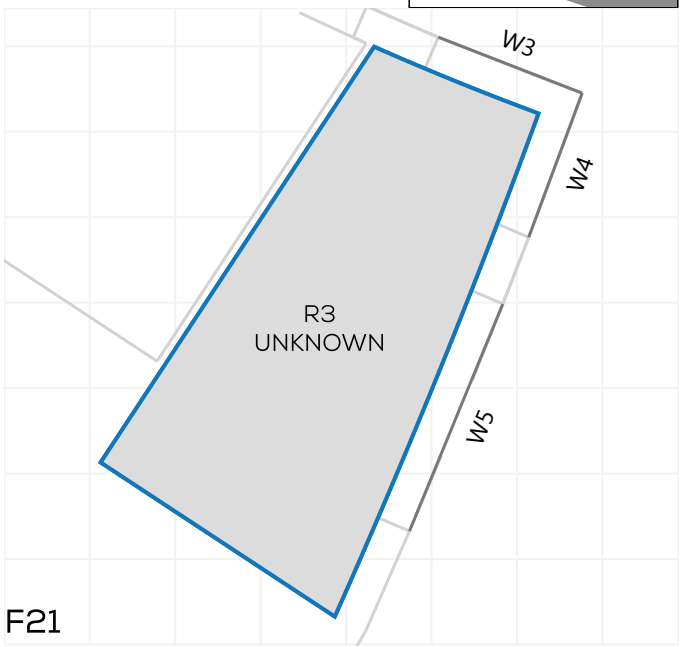
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD762

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

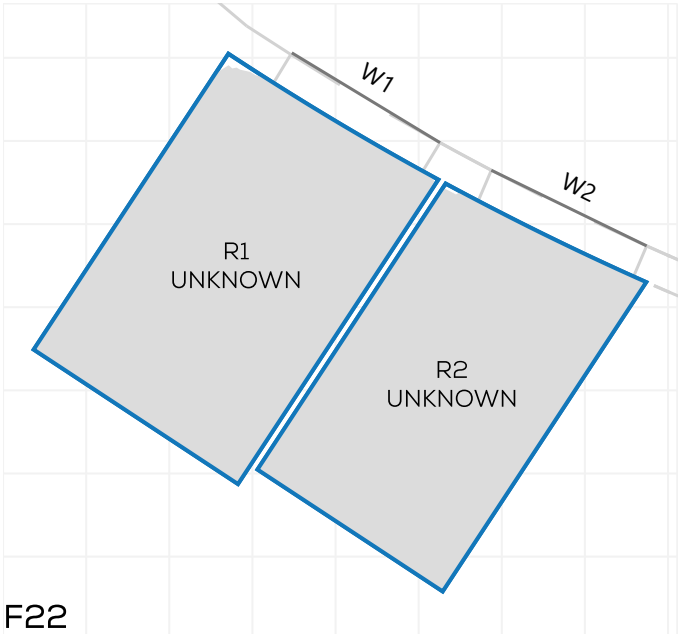




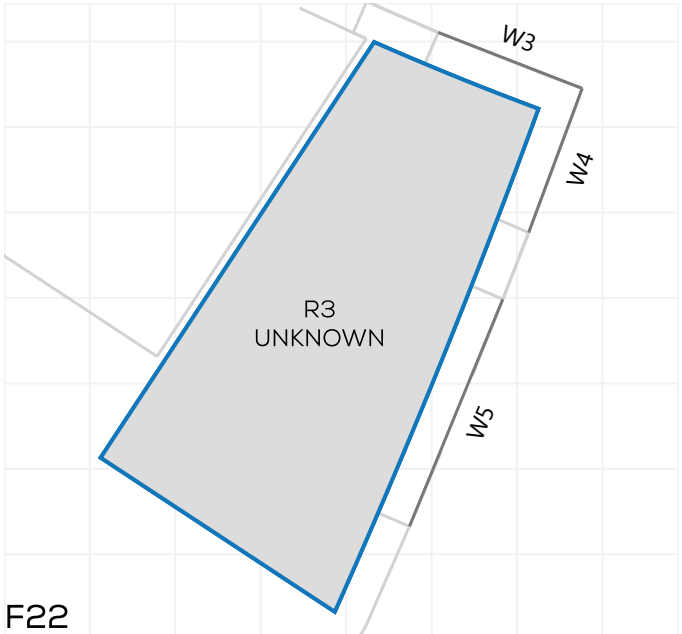
F21



F21



F22



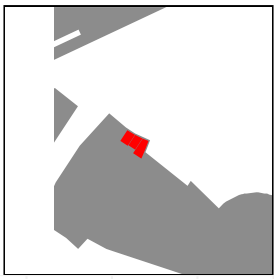
F22

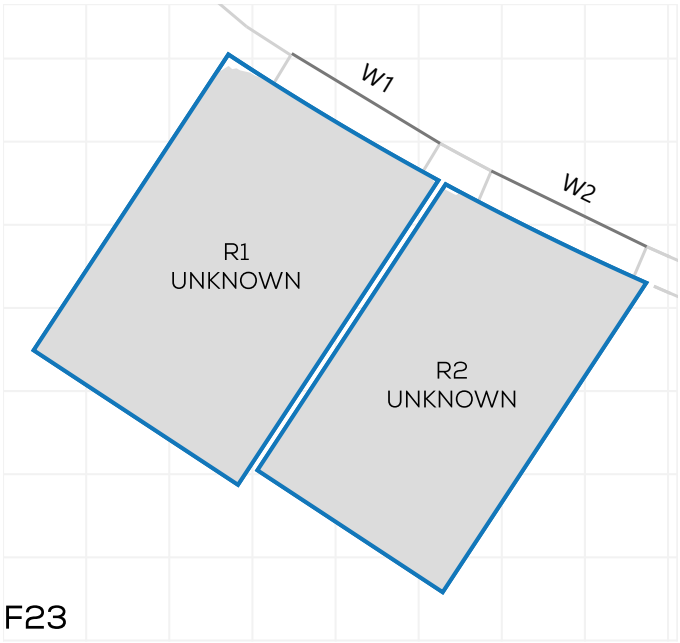
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F21	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F21	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F21	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F22	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F22	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F22	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD763

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

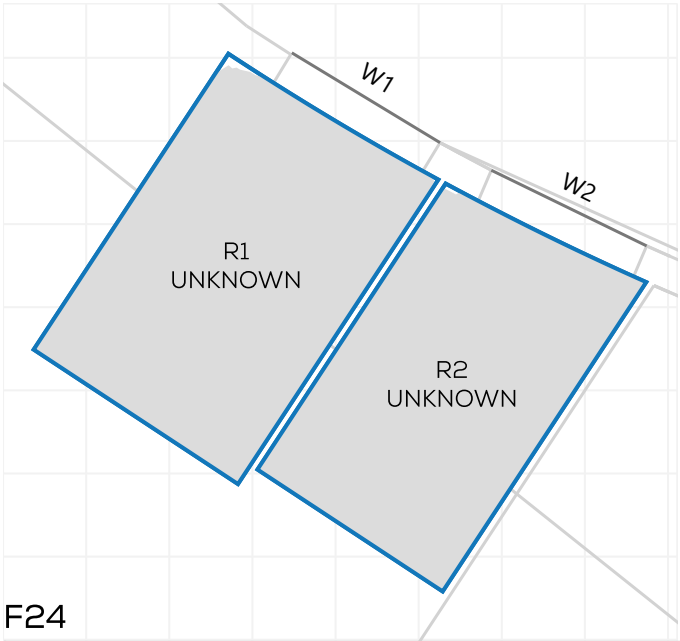




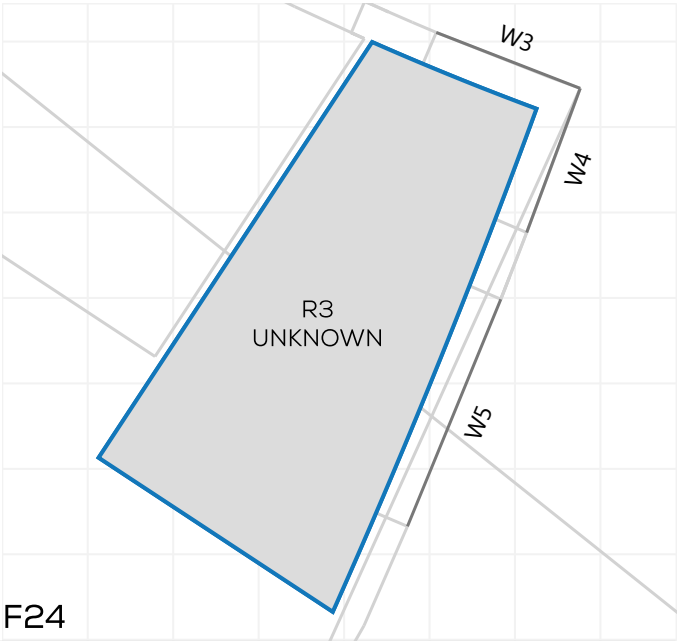
F23



F23



F24



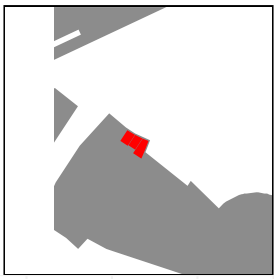
F24

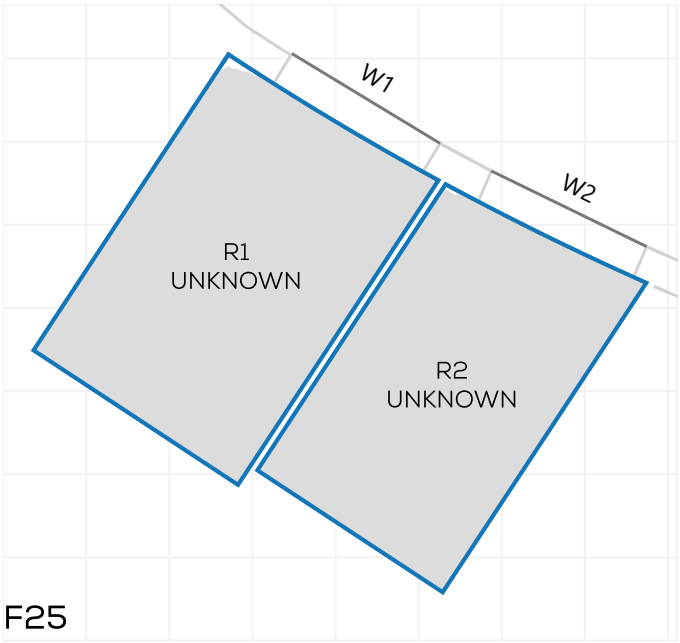
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F23	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F23	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F23	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F24	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F24	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F24	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

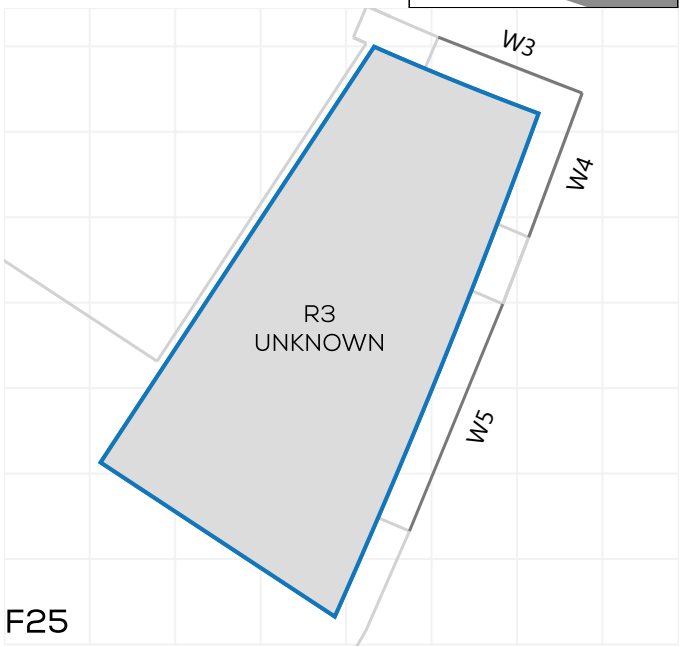
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD764

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

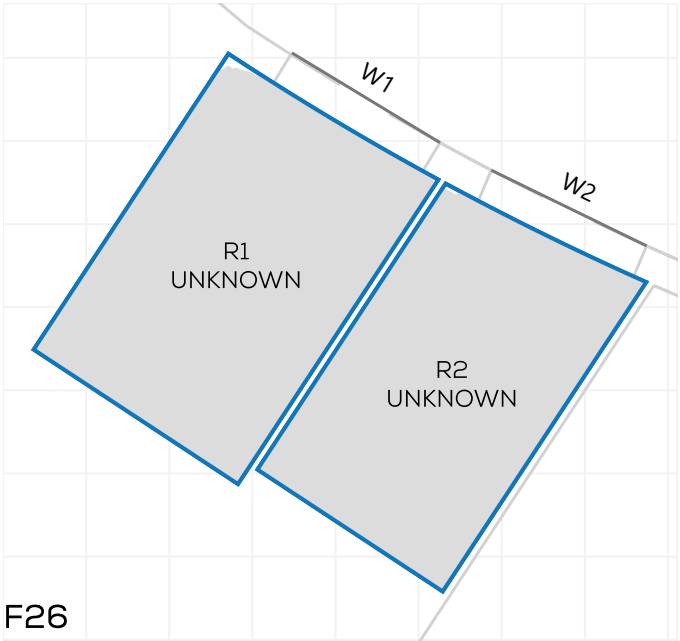




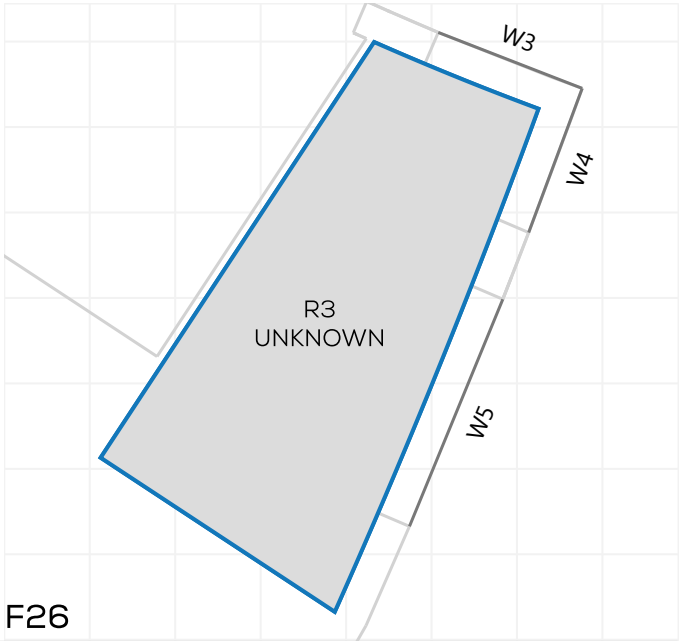
F25



F25



F26



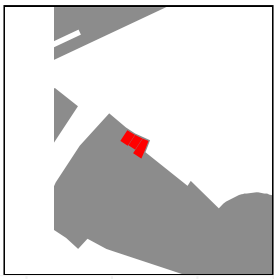
F26

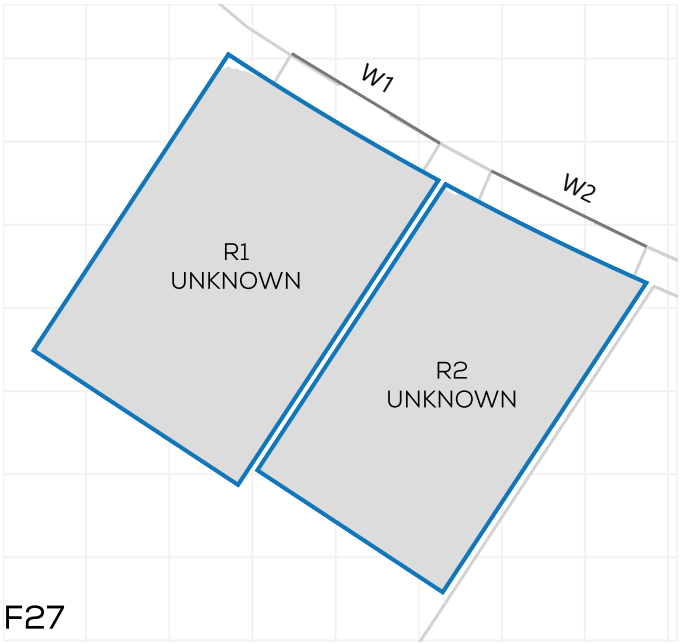
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F25	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F25	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F25	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F26	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F26	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F26	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

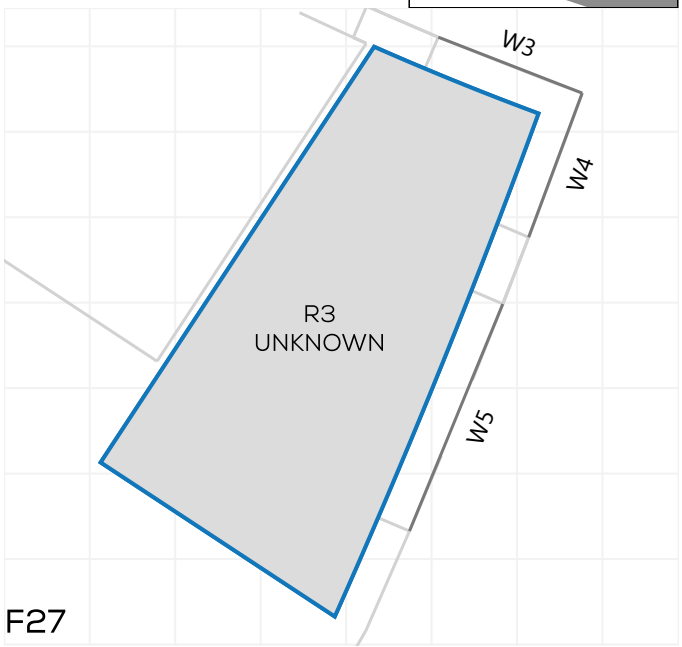
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD765

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

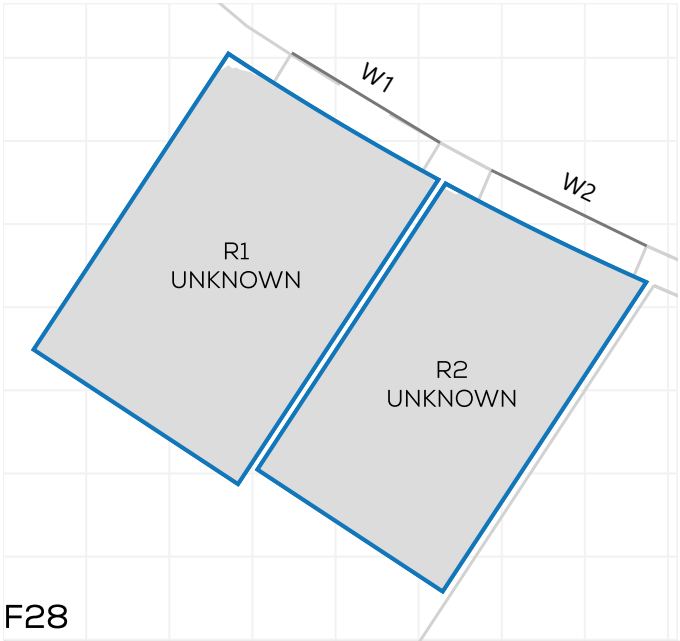




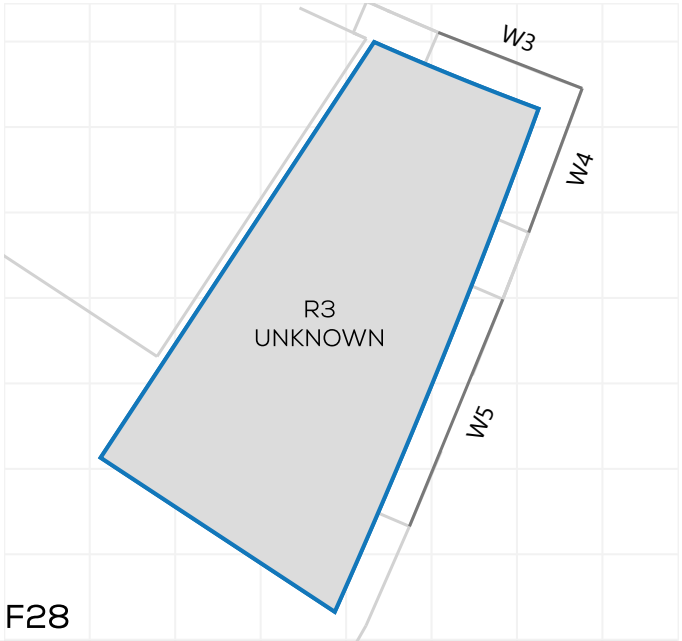
F27



F27



F28



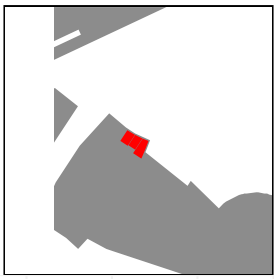
F28

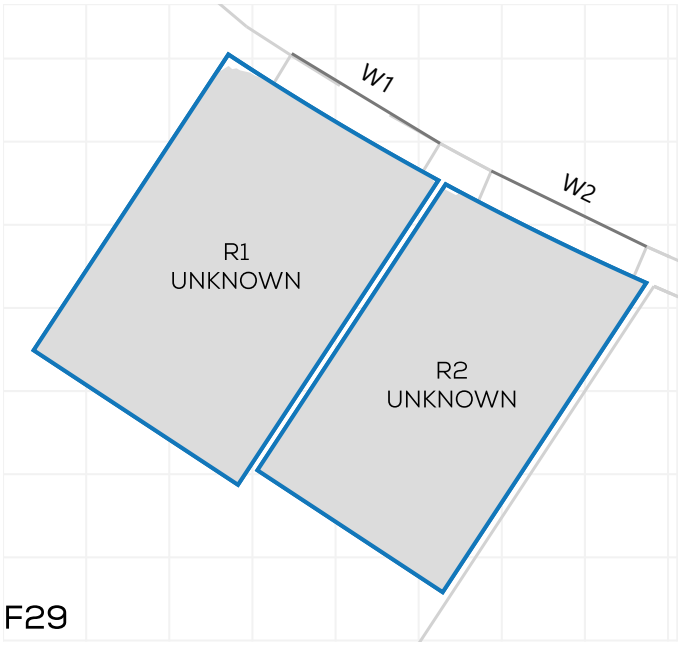
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F27	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F27	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F27	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F28	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F28	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F28	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

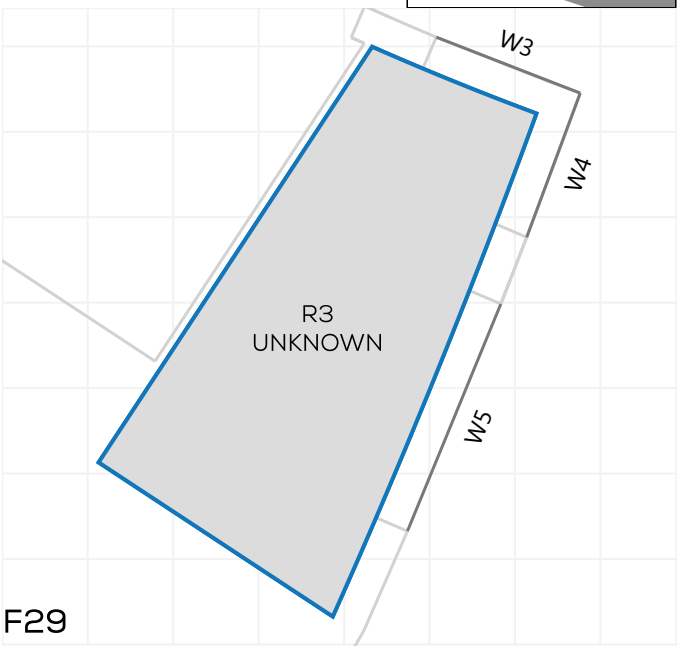
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD766

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F29



F29



F30



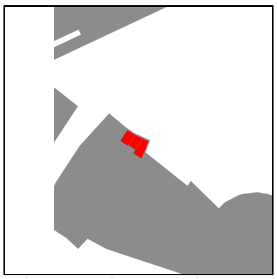
F30

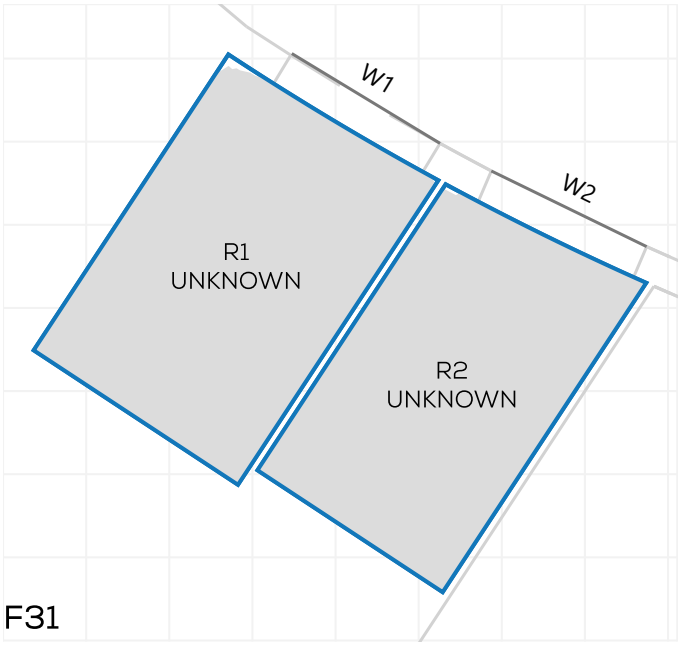
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F29	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F29	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F29	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F30	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F30	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F30	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

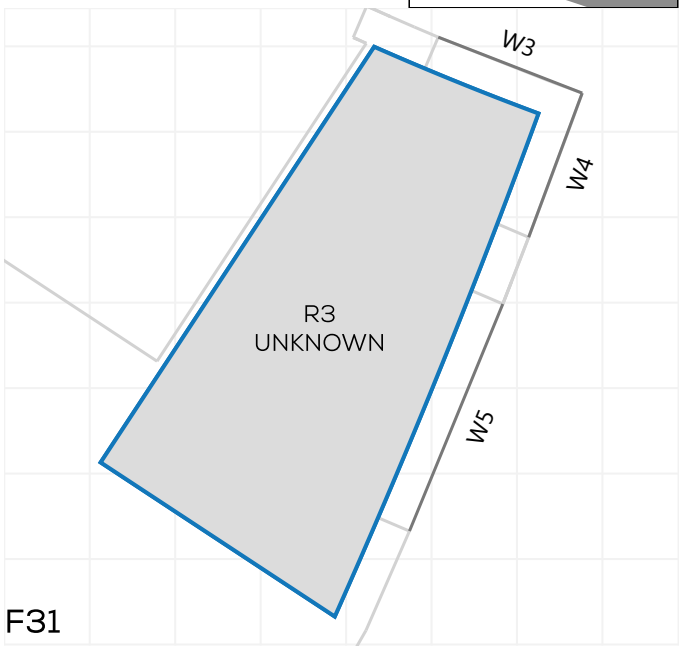
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD767

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

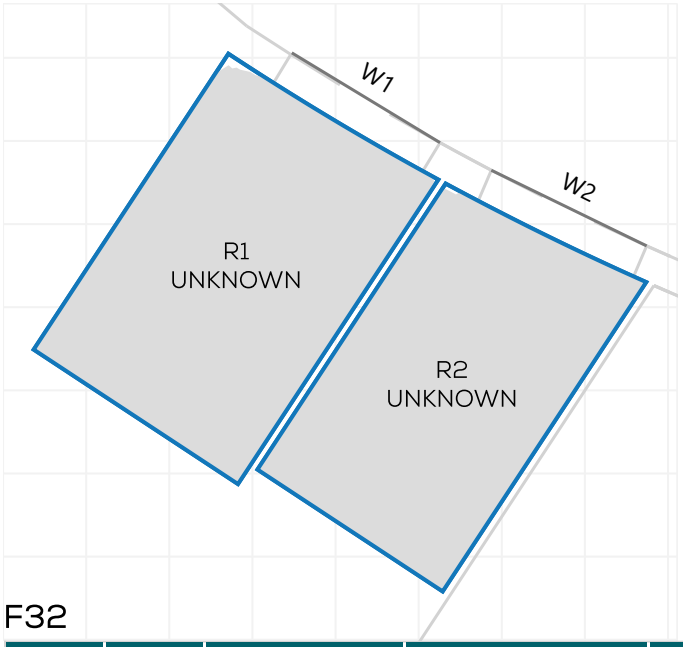




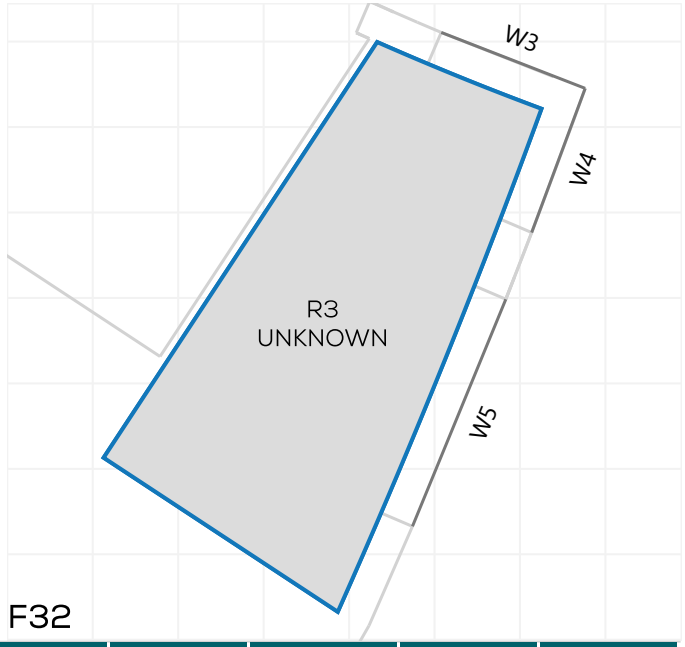
F31



F31



F32



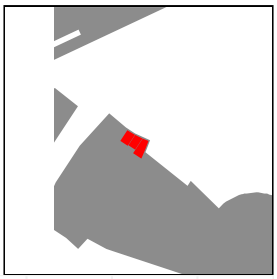
F32

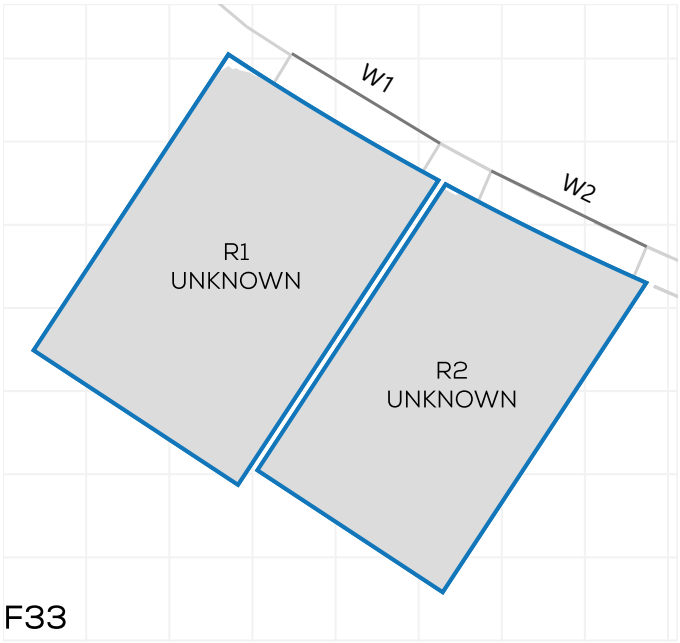
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F31	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F31	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F31	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F32	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F32	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F32	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

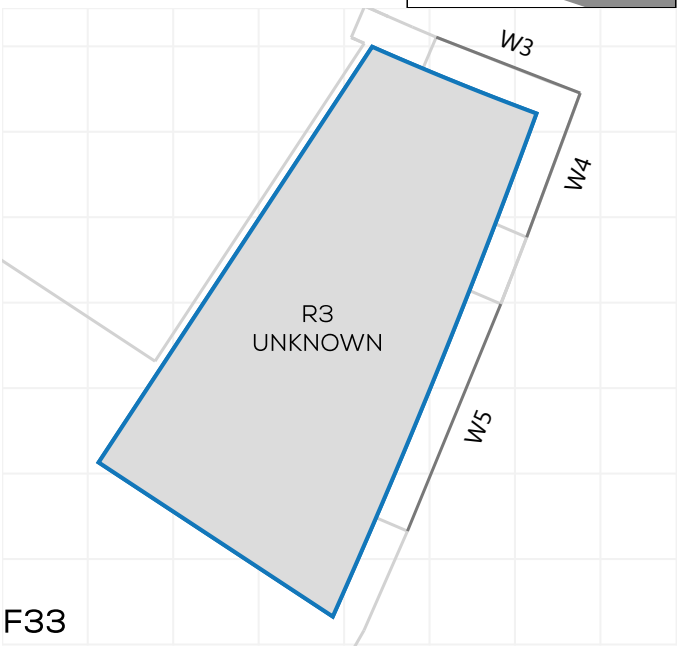
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD768

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

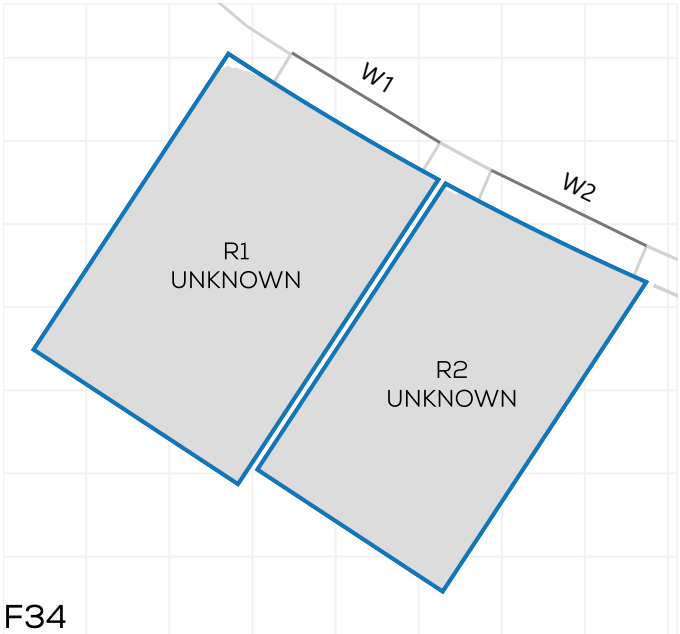




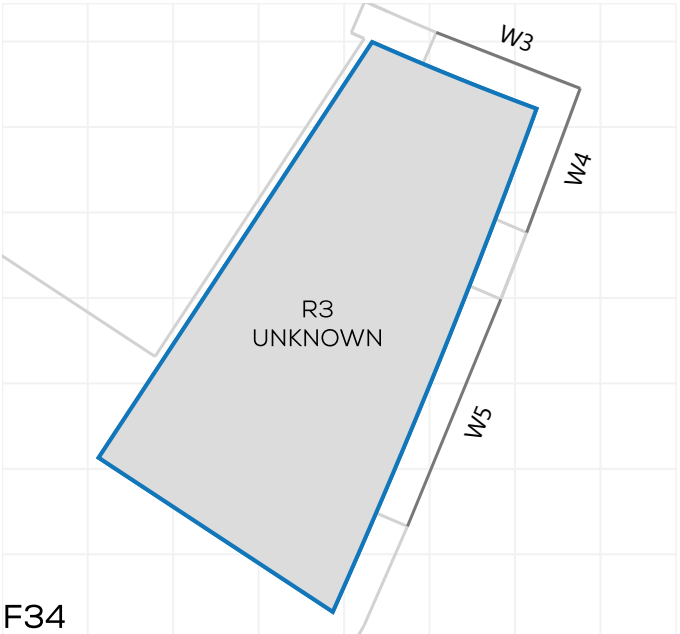
F33



F33



F34



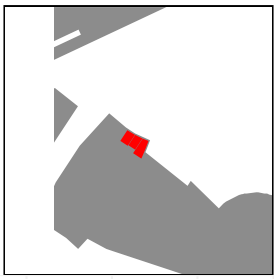
F34

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F33	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F33	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F33	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F34	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F34	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F34	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD769

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

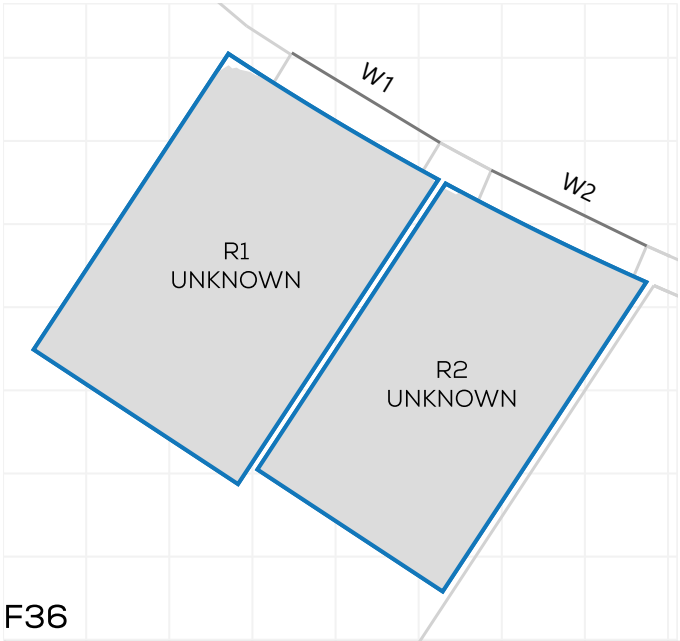




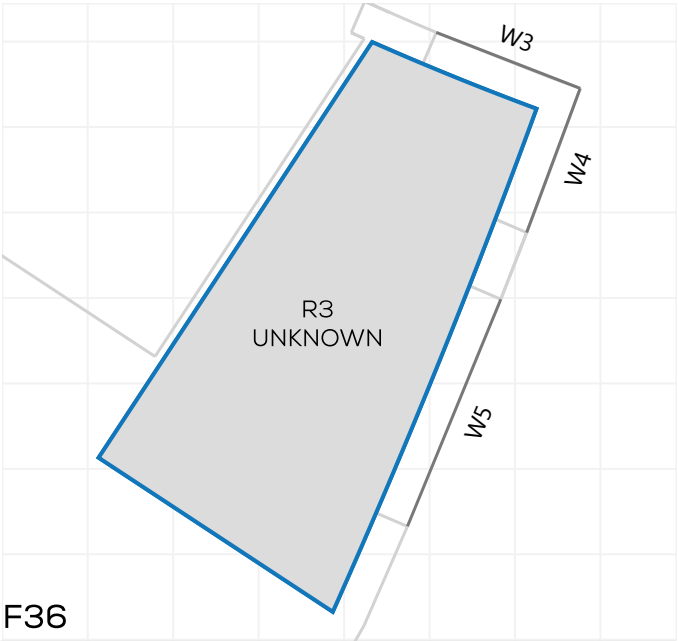
F35



F35



F36



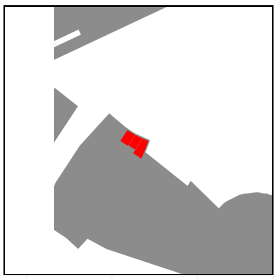
F36

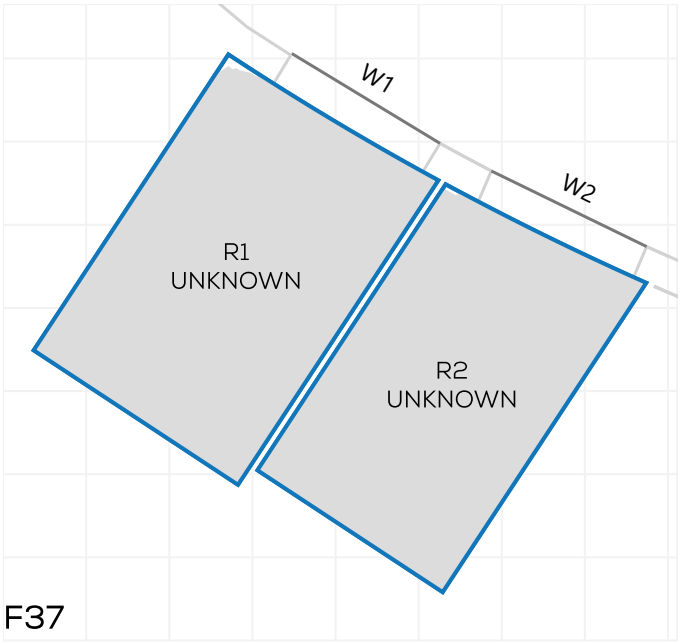
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F35	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F35	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F35	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F36	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F36	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F36	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

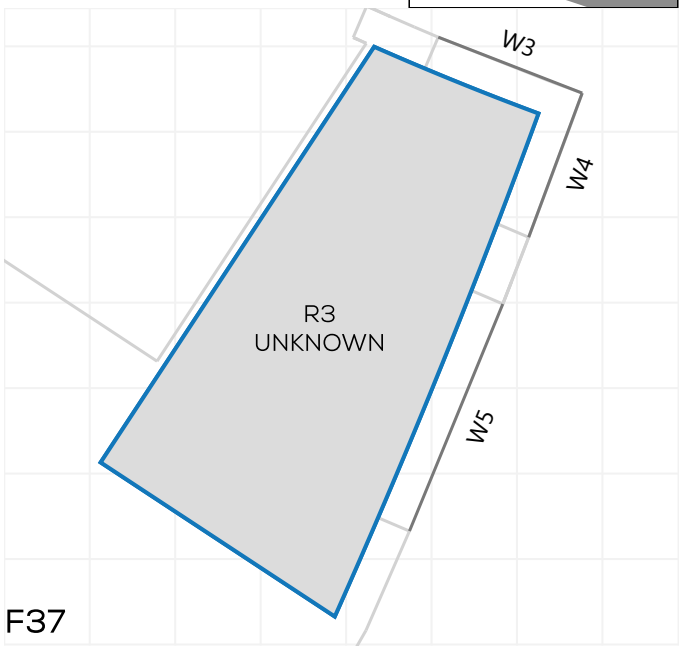
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD770

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

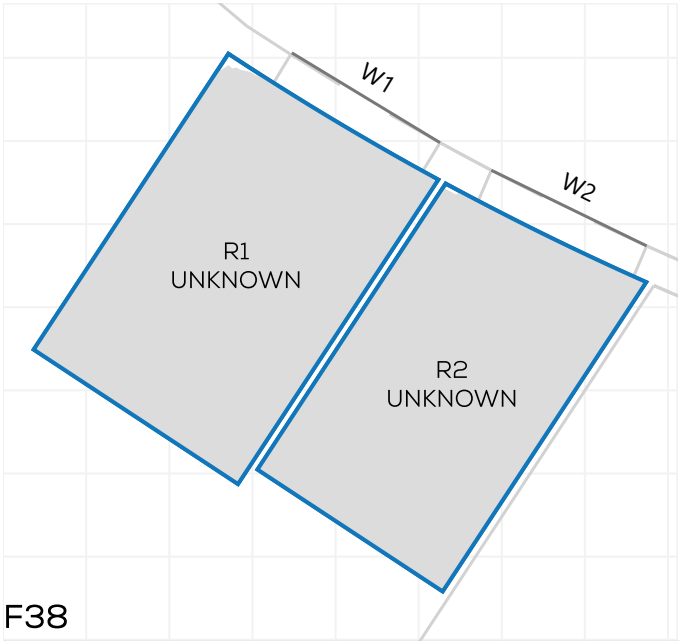




F37



F37



F38



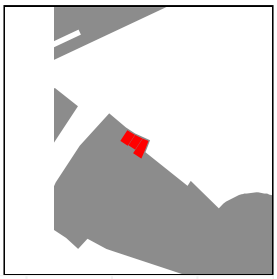
F38

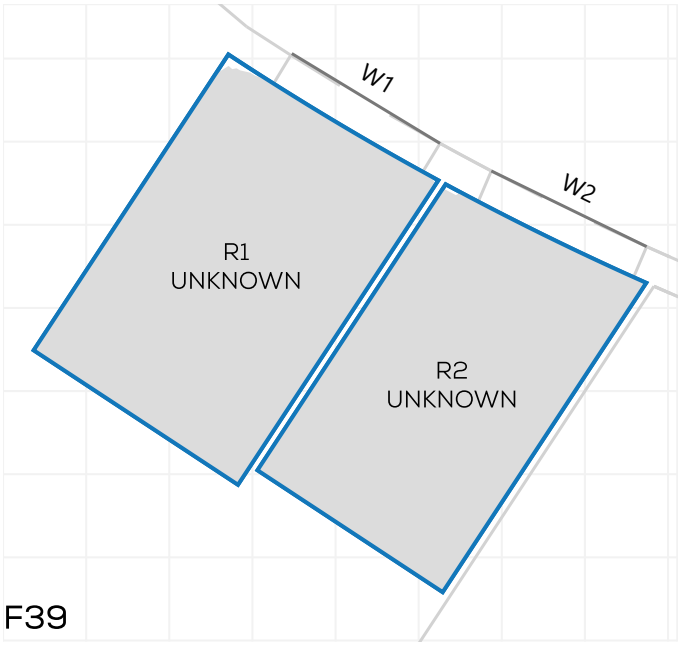
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F37	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F37	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F37	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F38	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F38	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F38	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

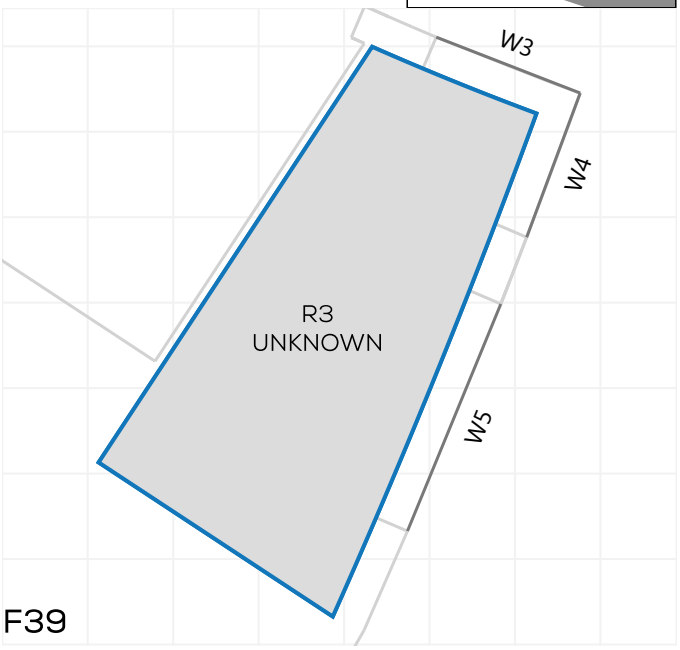
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD771

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





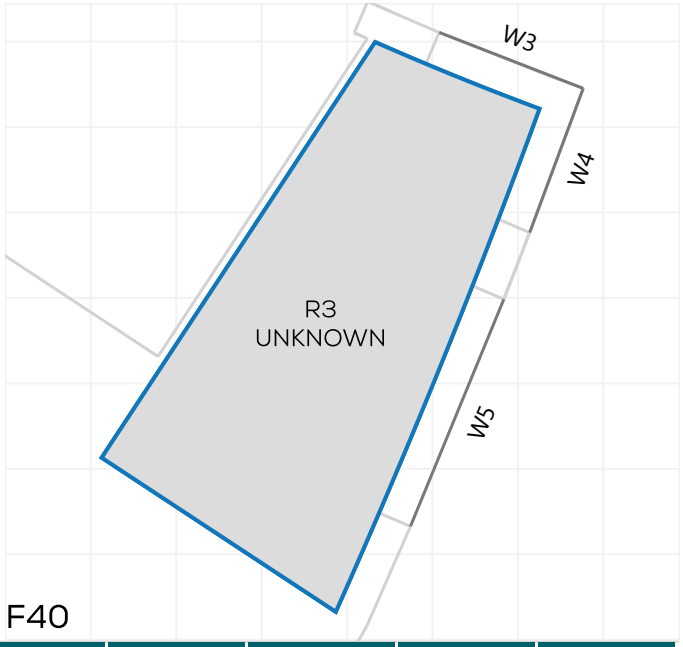
F39



F39



F40



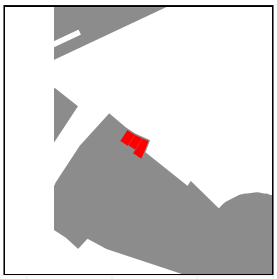
F40

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F39	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F39	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F39	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F40	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F40	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F40	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

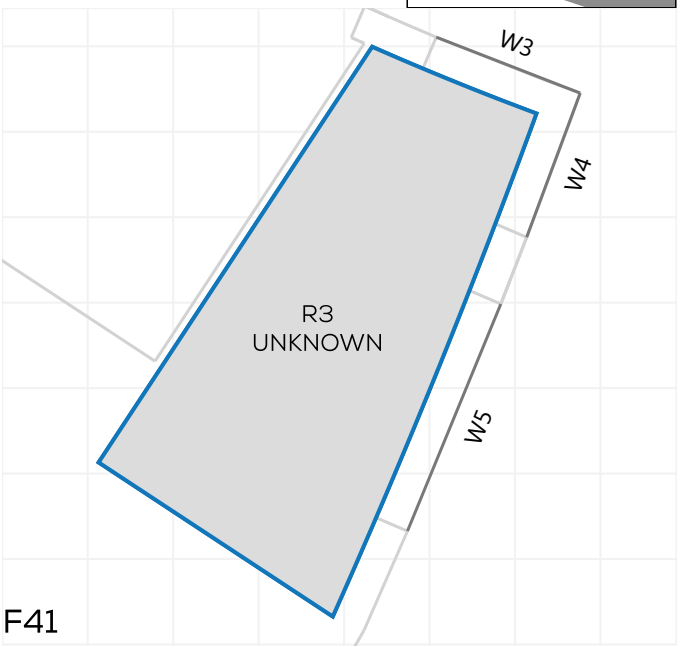
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD772

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

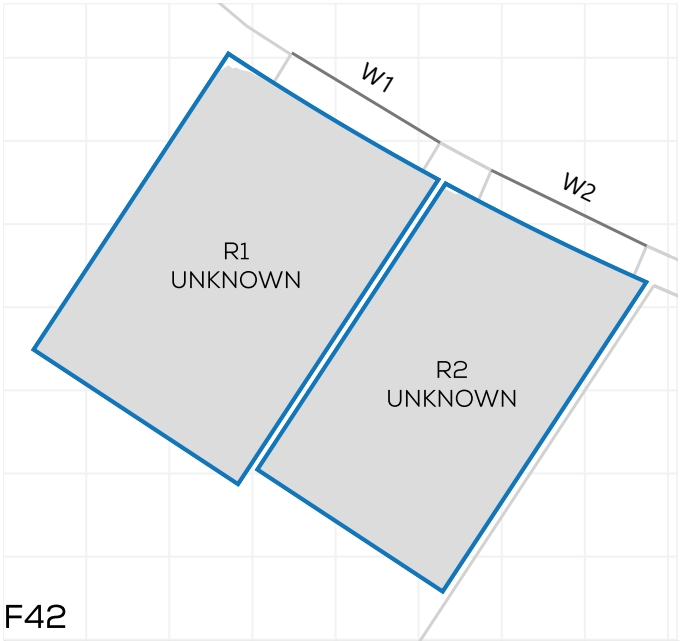




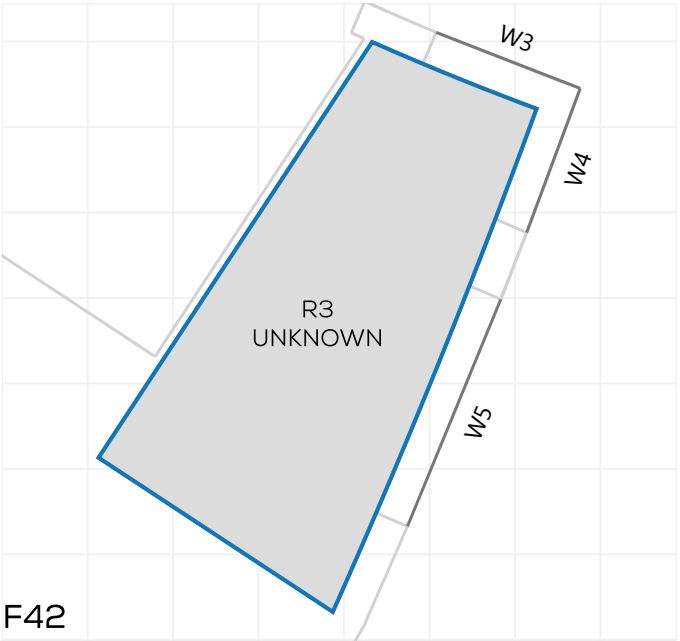
F41



F41



F42



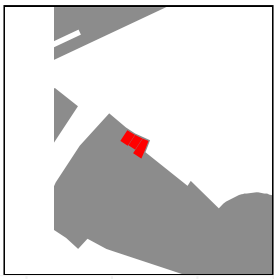
F42

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F41	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F41	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F41	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F42	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F42	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F42	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

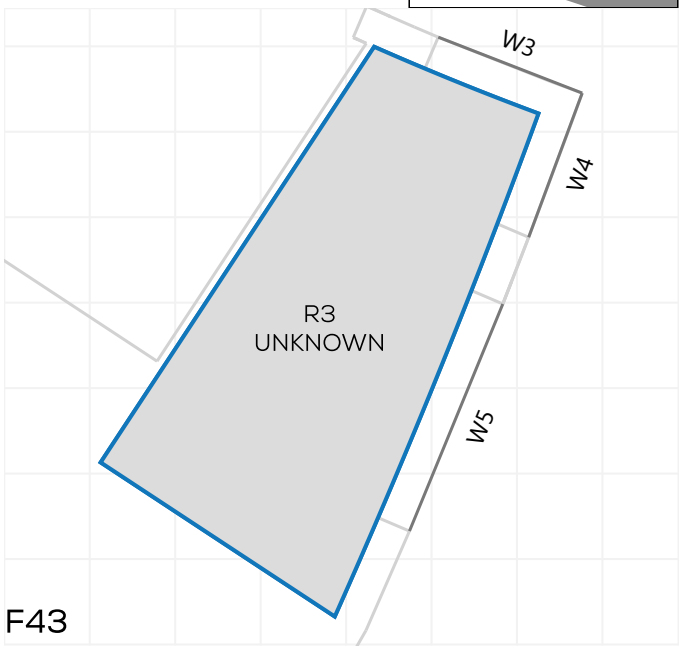
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD773

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

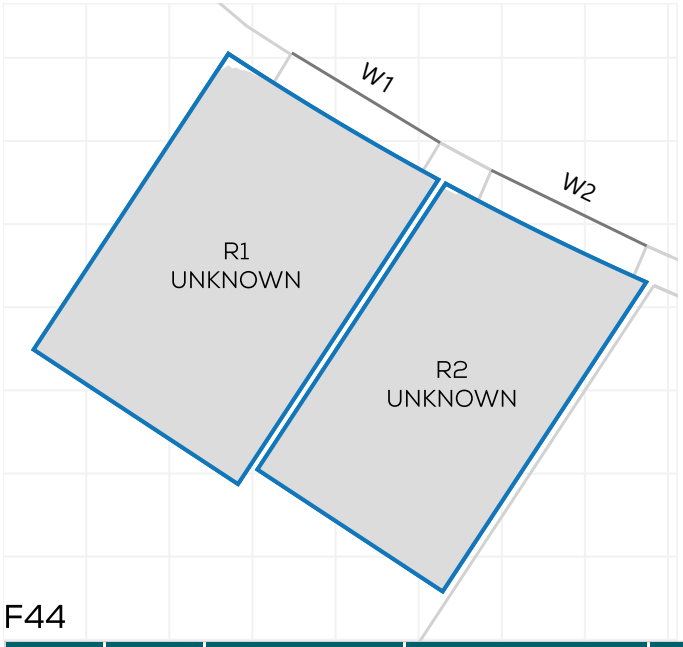




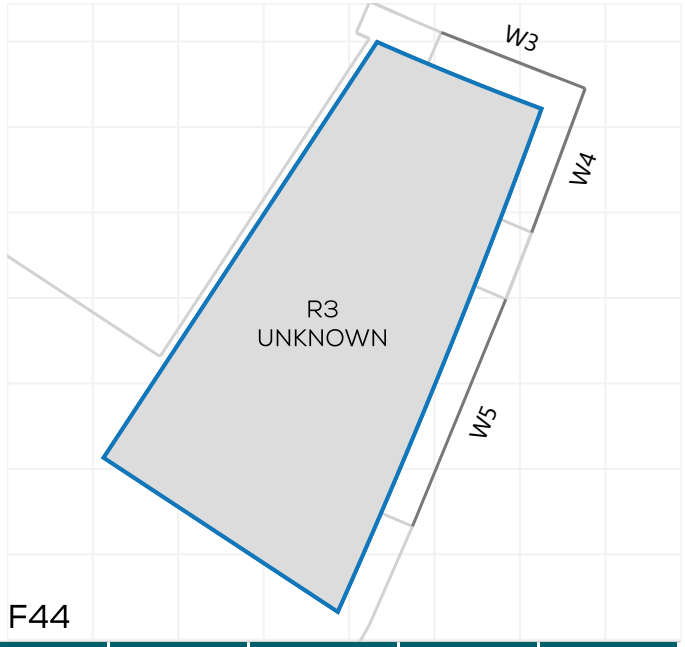
F43



F43



F44



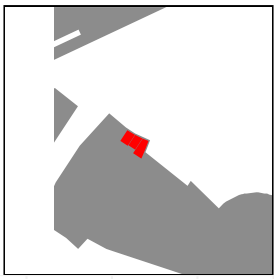
F44

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F43	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F43	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F43	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F44	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F44	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F44	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

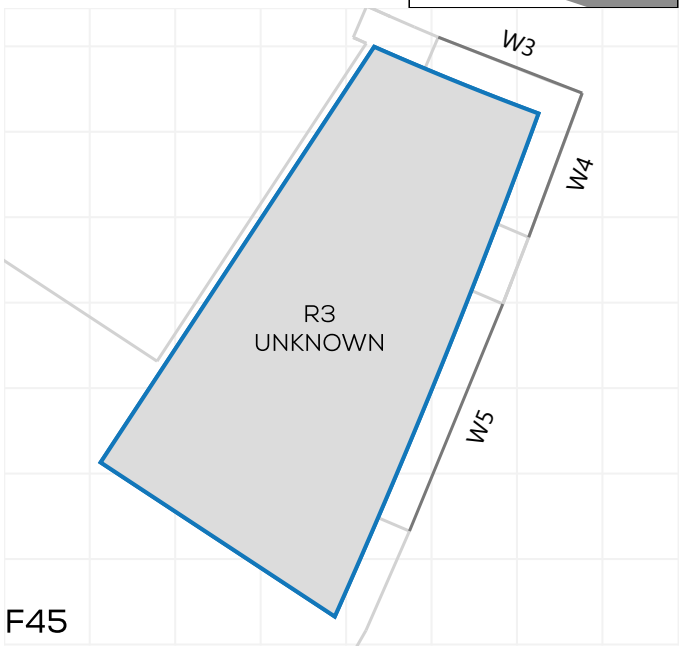
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD774

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

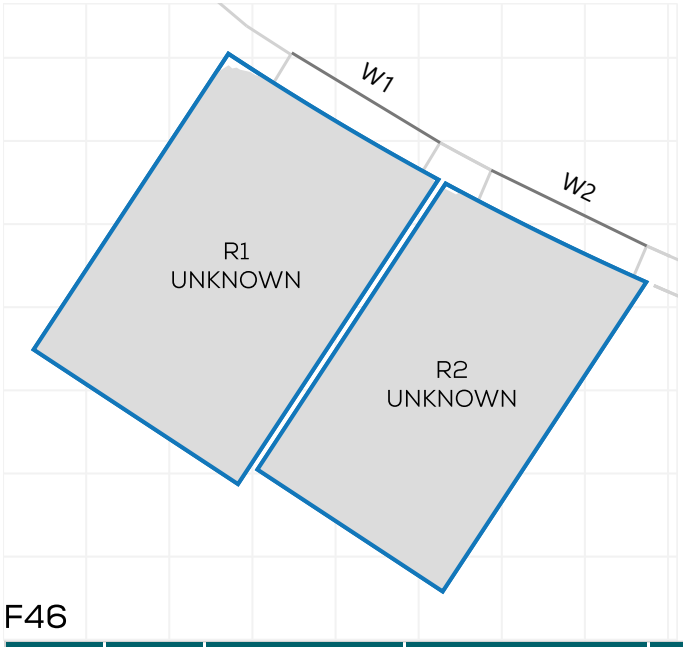




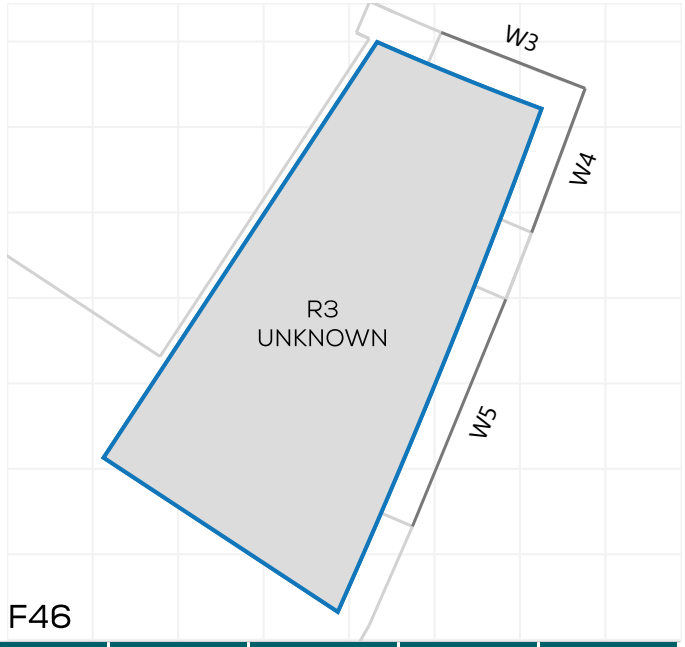
F45



F45



F46



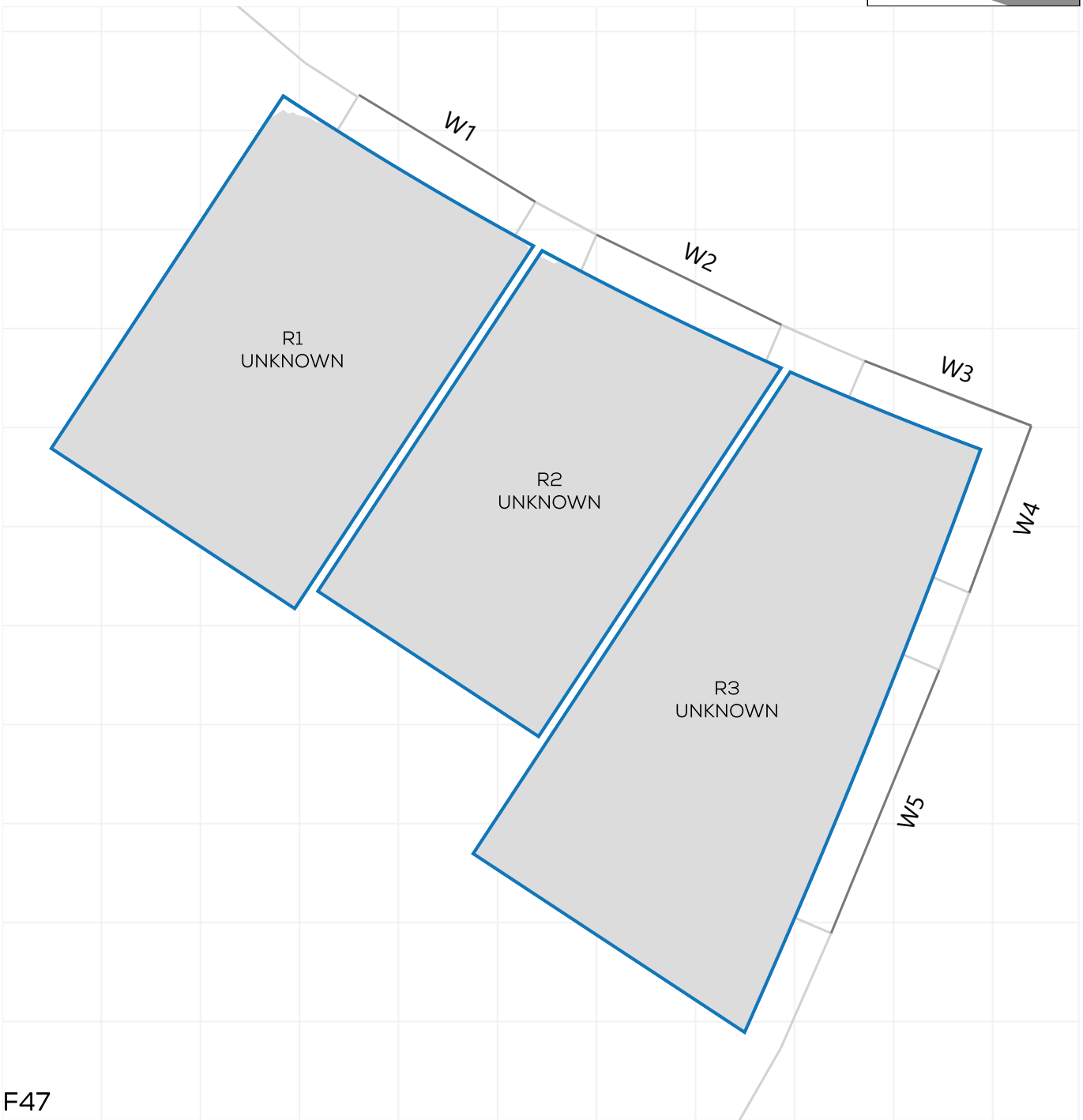
F46

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F45	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F45	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F45	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0
F46	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F46	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F46	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: THE BLADE
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD775

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID



F47

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
THE BLADE								
F47	R1	RESIDENTIAL	UNKNOWN	12.7	99.6	99.6	0.0	0
F47	R2	RESIDENTIAL	UNKNOWN	11.4	99.9	99.9	0.0	0
F47	R3	RESIDENTIAL	UNKNOWN	16.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD776

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID



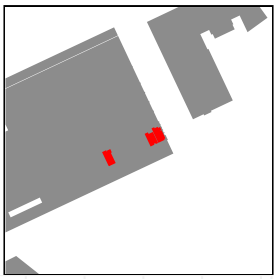
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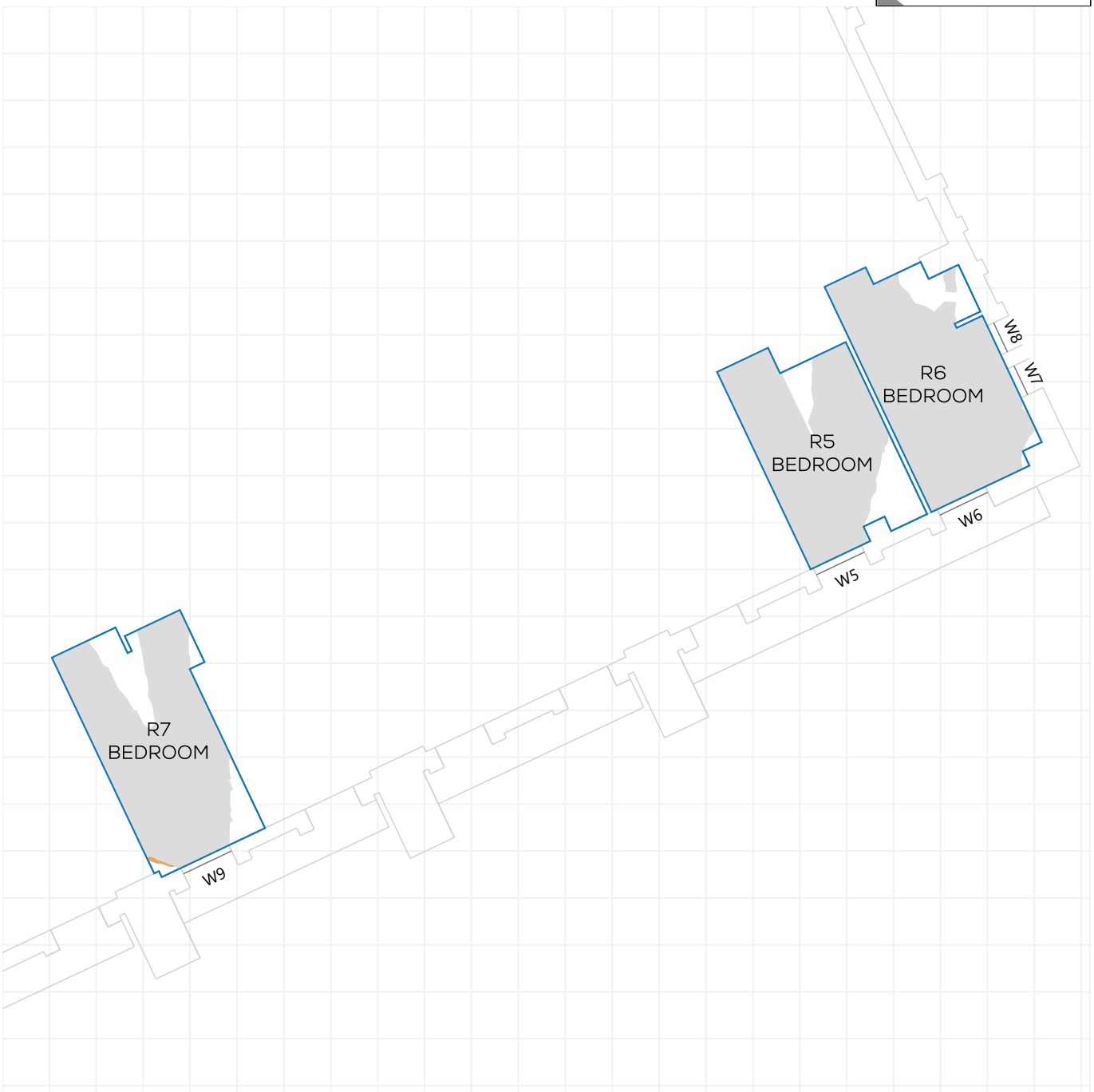
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F01	R1	RESIDENTIAL	BEDROOM	11.8	85.1	85.1	0.0	0
F01	R2	RESIDENTIAL	BEDROOM	9.6	71.6	71.5	0.0	0.1
F01	R3	RESIDENTIAL	BEDROOM	12.5	73.2	73.2	0.0	0
F01	R4	RESIDENTIAL	BEDROOM	13.9	72.1	72.1	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD777

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





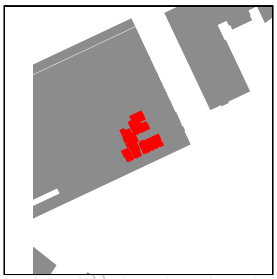
F01

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F01	R5	RESIDENTIAL	BEDROOM	11.7	84.2	84.2	0.0	0
F01	R6	RESIDENTIAL	BEDROOM	13.5	91.3	91.3	0.0	0
F01	R7	RESIDENTIAL	BEDROOM	13.4	83.3	83	0.0	0.4

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD778

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F02



F03



F03



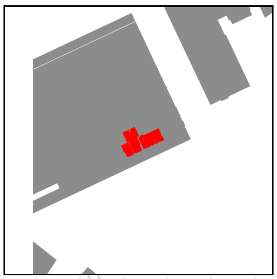
F04

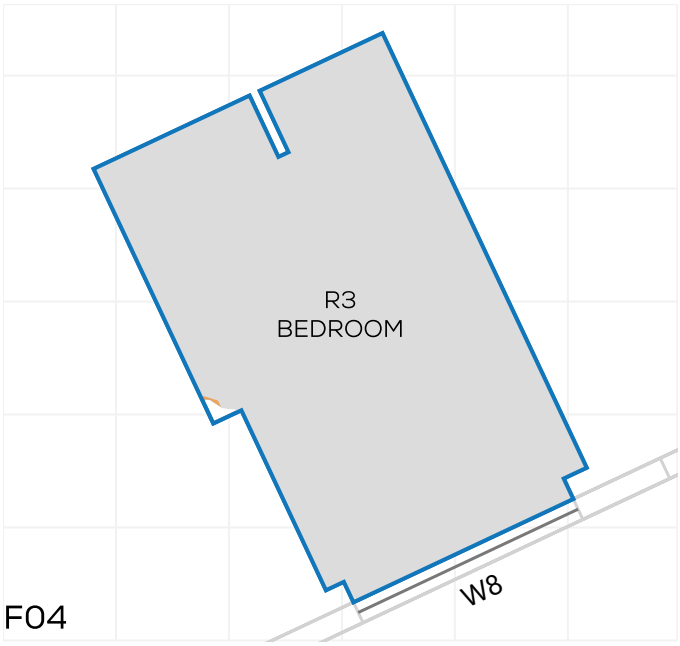
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F02	R1	RESIDENTIAL	LKD	36.8	99.3	99.3	0.0	0
F02	R2	RESIDENTIAL	BEDROOM	12.2	99.9	99.9	0.0	0
F03	R1	RESIDENTIAL	LKD	29.4	88.5	88.5	0.0	0
F03	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0
F03	R3	RESIDENTIAL	BEDROOM	11.9	99.7	99.7	0.0	0
F04	R1	RESIDENTIAL	LKD	29.4	88.5	88.5	0.0	0
F04	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD779

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F04



F05



F05



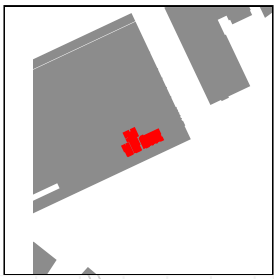
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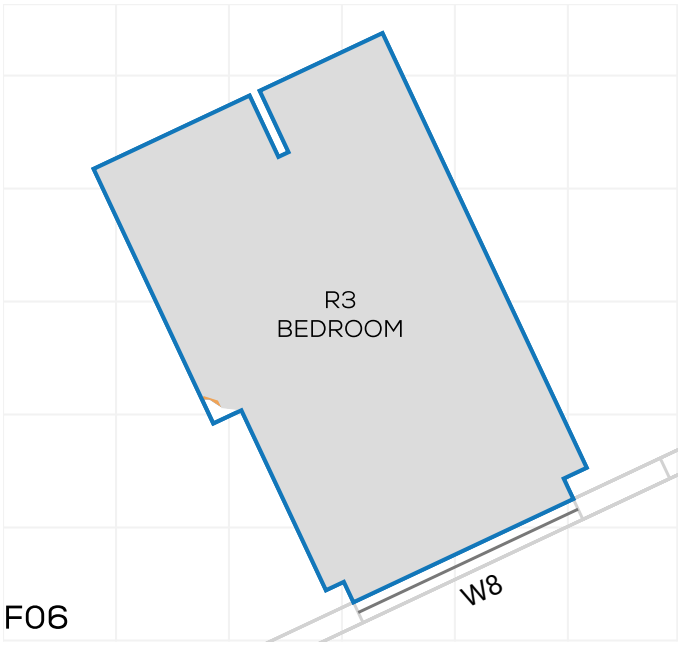
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F04	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F05	R1	RESIDENTIAL	LKD	29.4	88.5	88.5	0.0	0
F05	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0
F05	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F06	R1	RESIDENTIAL	LKD	29.4	88.5	88.5	0.0	0
F06	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD780

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

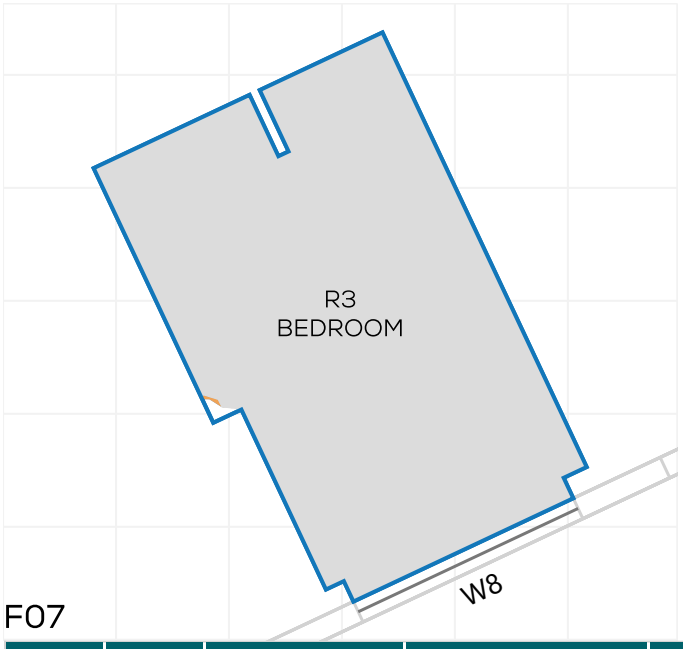




F06



F07



F07



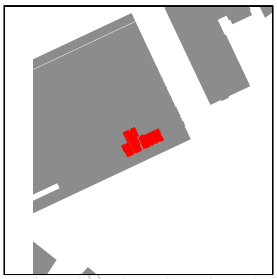
F08

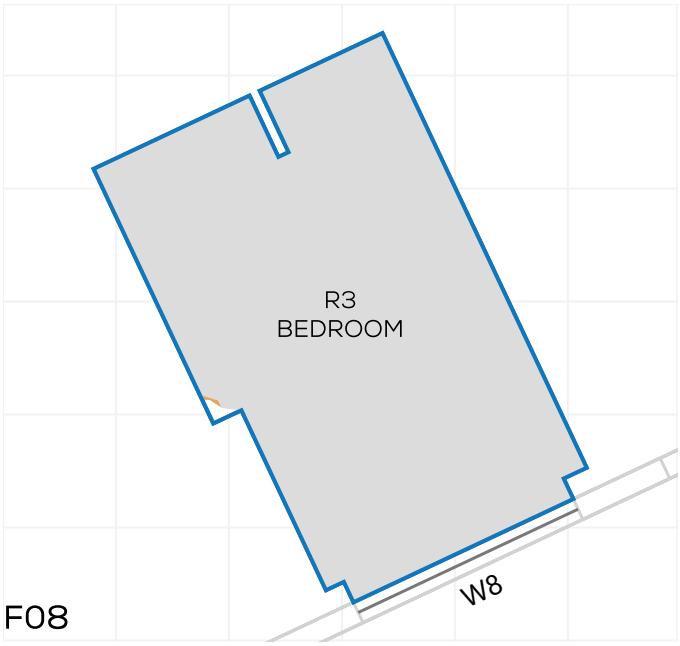
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F06	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F07	R1	RESIDENTIAL	LKD	29.4	88.6	88.6	0.0	0
F07	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0
F07	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F08	R1	RESIDENTIAL	LKD	29.4	88.6	88.6	0.0	0
F08	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD781

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

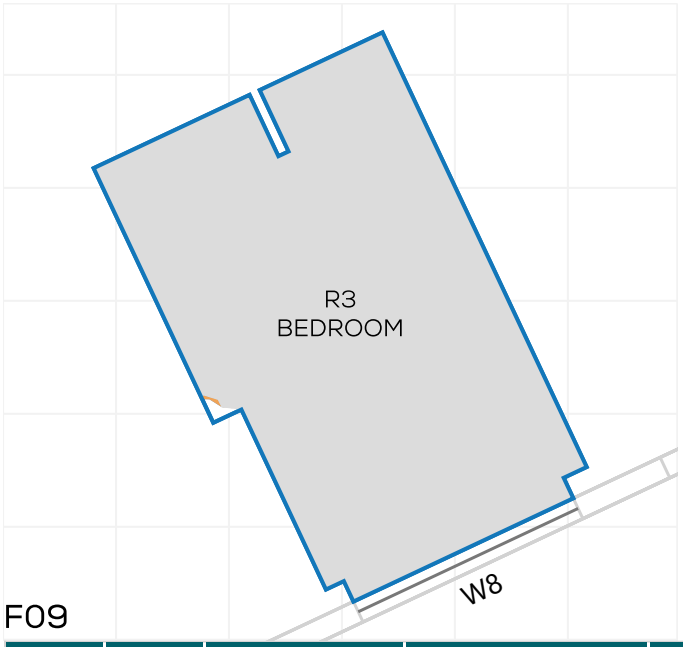




F08



F09



F09



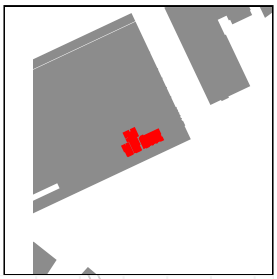
F10

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F08	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F09	R1	RESIDENTIAL	LKD	29.4	88.6	88.6	0.0	0
F09	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0
F09	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F10	R1	RESIDENTIAL	LKD	29.4	88.6	88.6	0.0	0
F10	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0

NSL CONTOURS

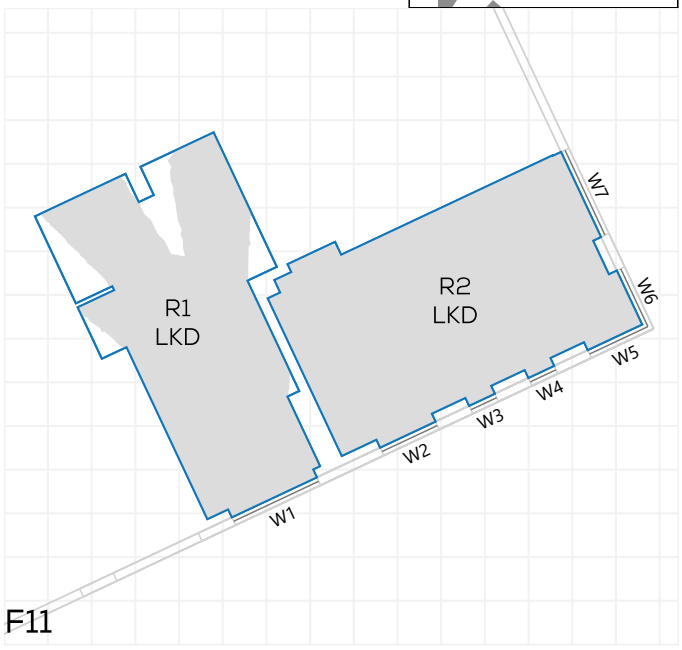
PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD782

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

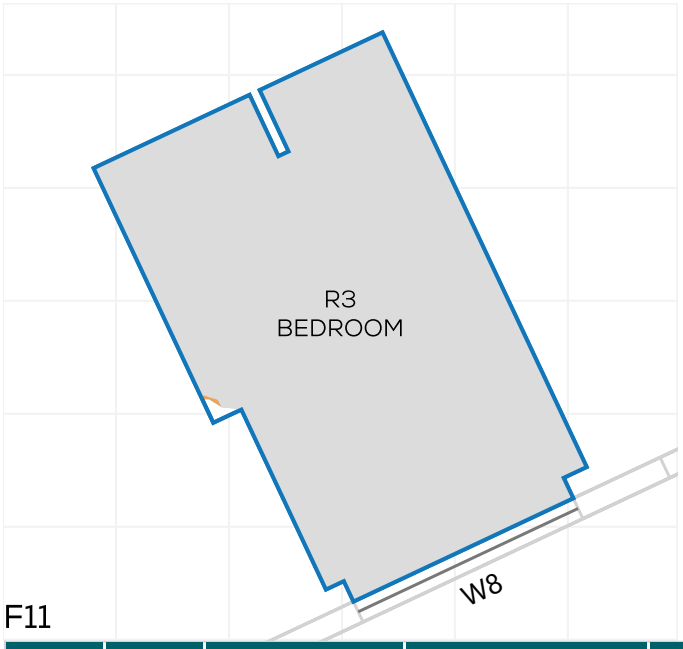




F10



F11



F11



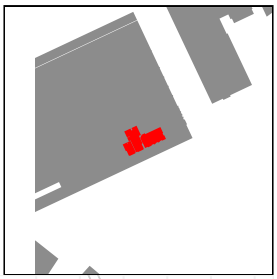
F12

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F10	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F11	R1	RESIDENTIAL	LKD	29.4	88.6	88.6	0.0	0
F11	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0
F11	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F12	R1	RESIDENTIAL	LKD	29.4	88.5	88.5	0.0	0
F12	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD783

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID





F12



F13



F13



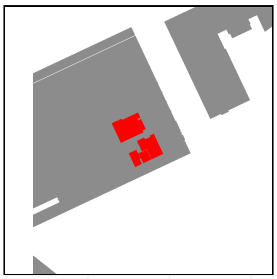
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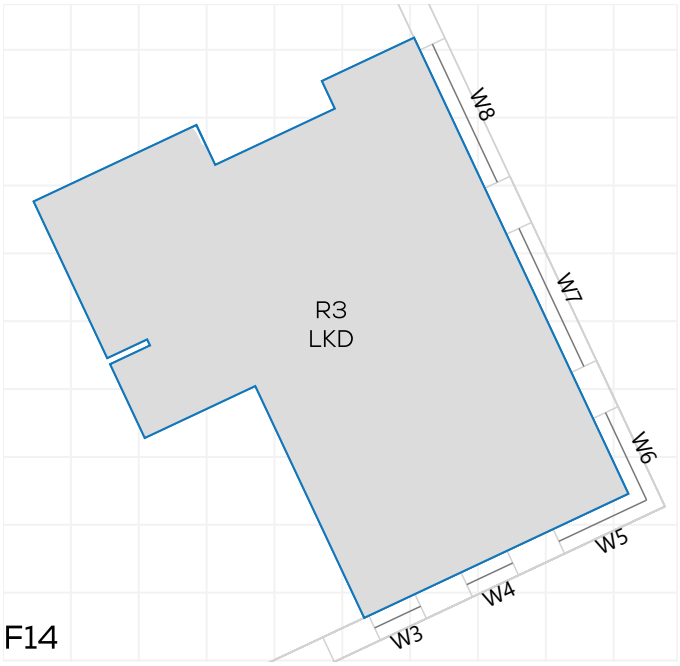
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F12	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F13	R1	RESIDENTIAL	LKD	29.4	88.5	88.5	0.0	0
F13	R2	RESIDENTIAL	LKD	32.3	100	100	0.0	0
F13	R3	RESIDENTIAL	BEDROOM	11.9	99.8	99.7	0.0	0
F14	R1	RESIDENTIAL	BEDROOM	13.7	99.3	99.3	0.0	0
F14	R2	RESIDENTIAL	BEDROOM	10.9	99.6	99.6	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD784

KEY:
GAIN
LOSS
MAINTAINED LIT AREA
1 METRE GRID

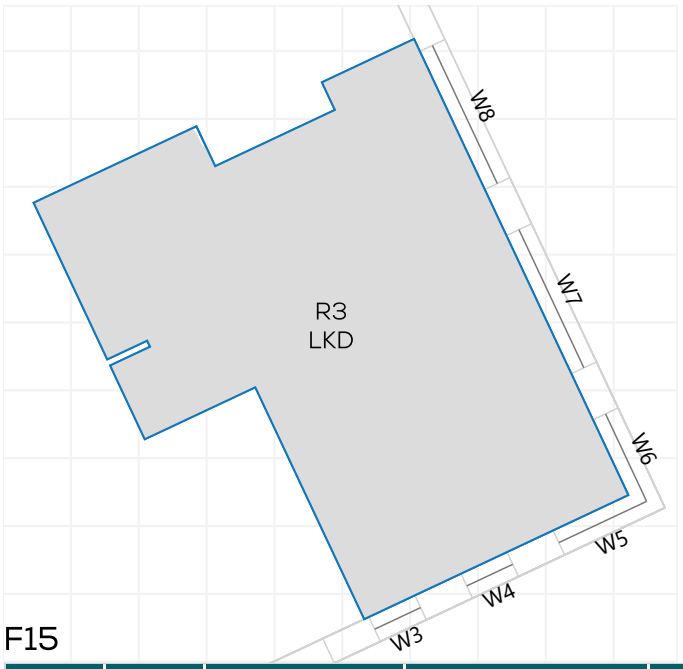




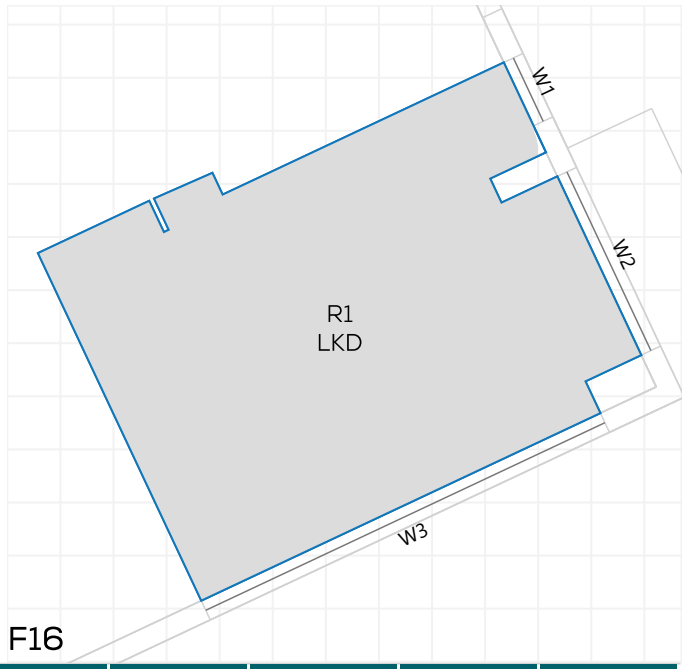
F14



F15



F15



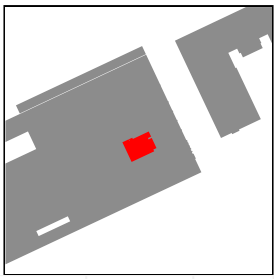
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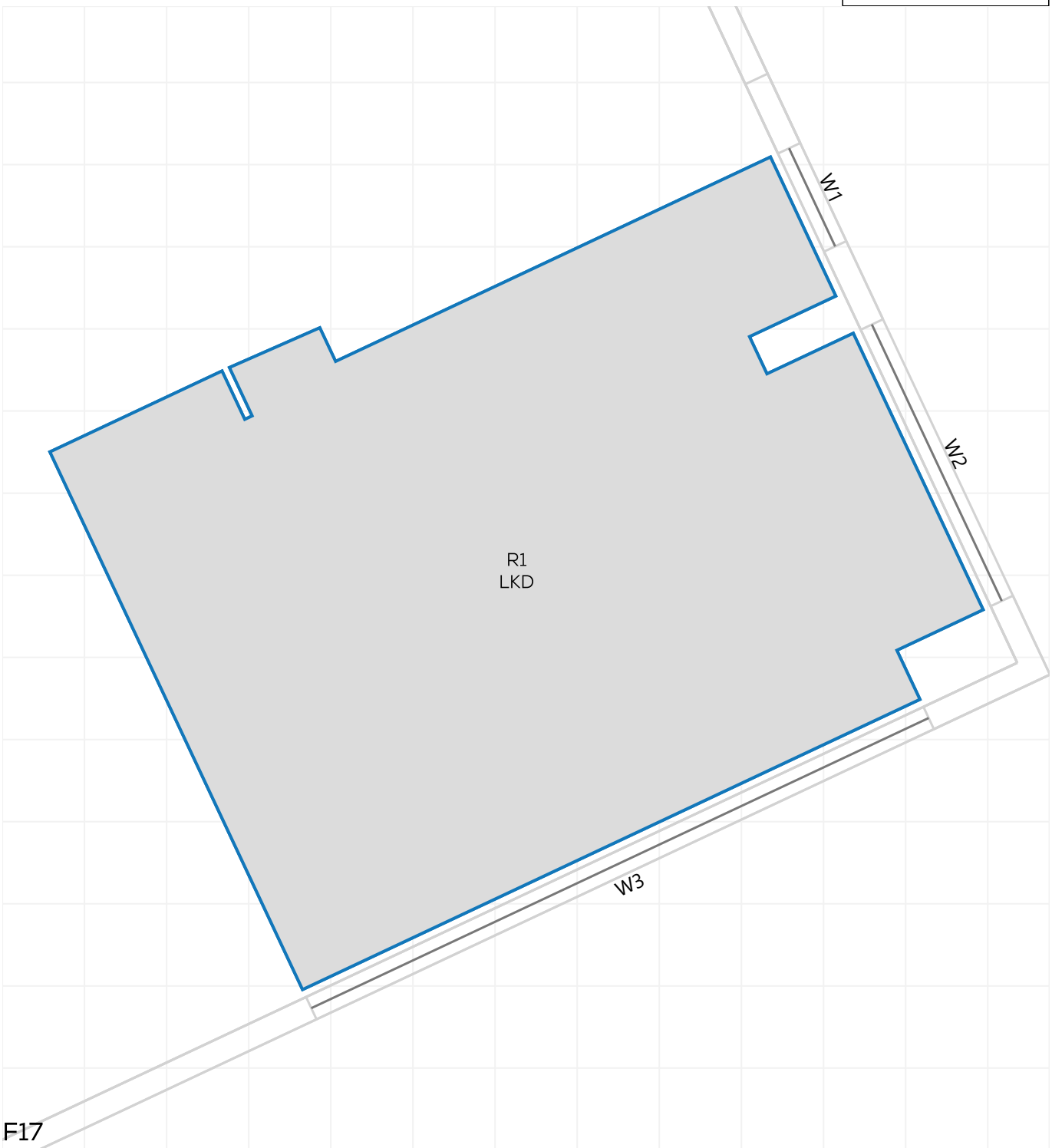
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F14	R3	RESIDENTIAL	LKD	38.1	100	100	0.0	0
F15	R1	RESIDENTIAL	BEDROOM	13.7	99.3	99.3	0.0	0
F15	R2	RESIDENTIAL	BEDROOM	10.9	99.6	99.6	0.0	0
F15	R3	RESIDENTIAL	LKD	38.1	100	100	0.0	0
F16	R1	RESIDENTIAL	LKD	64.2	99.9	99.9	0.0	0

NSL CONTOURS

PROJECT: 1366 - PLOT F, GREAT JACKSON STREET
REPORT TITLE: EXISTING VS. PROPOSED
ADDRESS: ELIZABETH TOWER C1
DATE: 08/07/2021
SCHEME IR: IR18
DRAWING No.: 1366-REL02-IS01-DD785

KEY:
- GAIN
- LOSS
- MAINTAINED LIT AREA
- 1 METRE GRID





F17

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	ROOM AREA-sqm	EXISTING %	PROPOSED %	LOSS-sqm	LOSS %
ELIZABETH TOWER C1								
F17	R1	RESIDENTIAL	LKD	64.2	100	100	0.0	0



SOURCES OF INFORMATION

IR18-20210611-SimpsonHaugh
IR19-Planning portal
IR20-Vertex

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NOTES:
EXISTING SCENARIO SHOWN IN SEPIA
CONSENTED SCHEME SHOWN IN ORANGE
— — — SITE LOCATION

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:

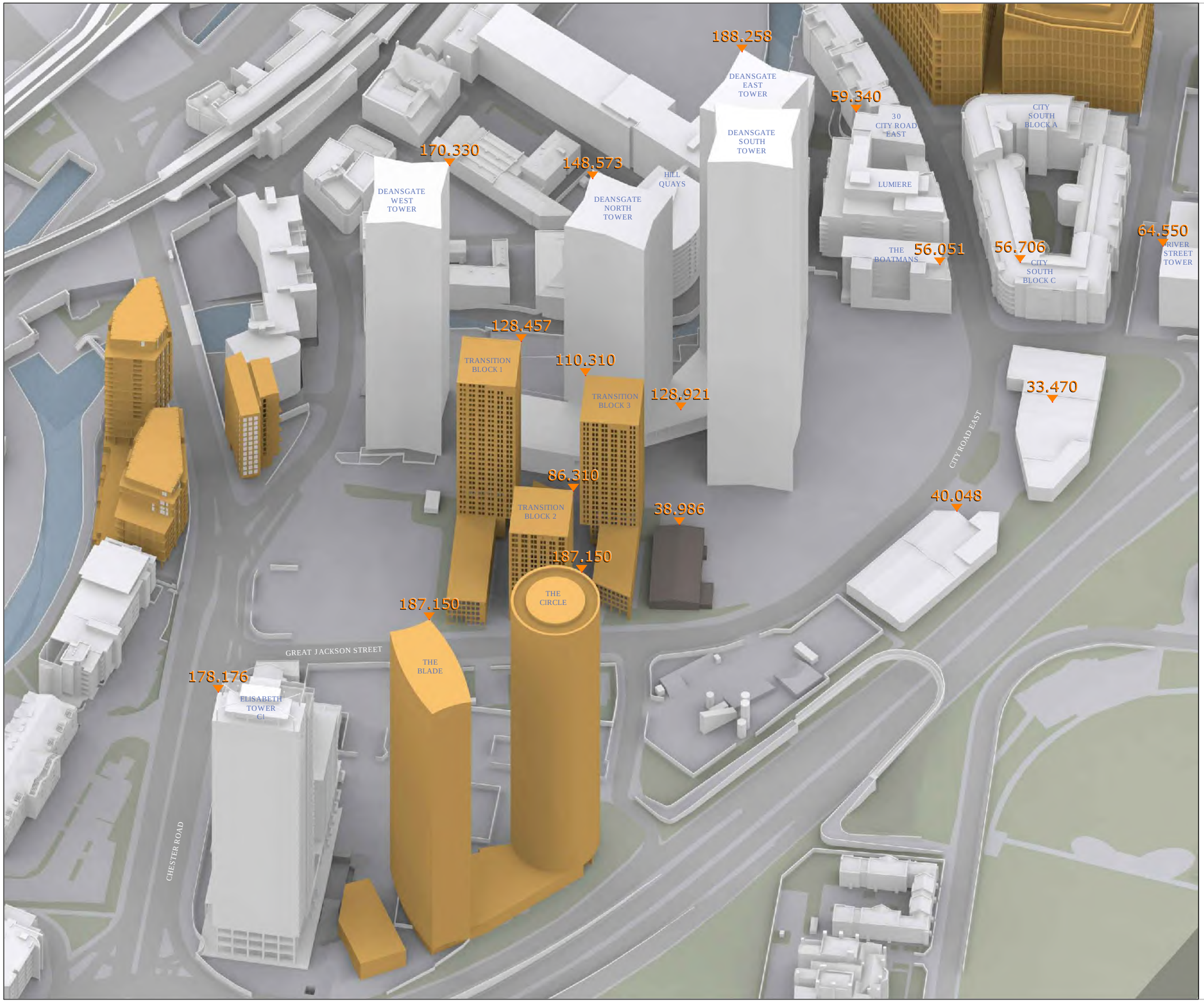
PLOT F JACKSON STREET, MANCHESTER

DRAWING NAME:

PLAN VIEW EXISTING

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS	MB	4	JULY21
PROJ No.	REL No.	IS No.	DWG No.	REV No.
1366	02	01	01	-

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SOURCES OF INFORMATION

IR18-20210611-SimpsonHaugh
IR19-Planning portal
IR20-Vertex

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NOTES:
EXISTING SCENARIO SHOWN IN SEPIA
CONSENTED SCHEME SHOWN IN ORANGE
SITE LOCATION

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
PLOT F JACKSON STREET, MANCHESTER

DRAWING NAME:
3D VIEW EXISTING

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS	MB	A	JULY21
PROJ No.	REL No.	IS No.	DWG No.	REV No.
1366	02	01	02	-

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SOURCES OF INFORMATION

IR18-20210611-SimpsonHaugh
IR19-Planning portal
IR20-Vertex

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.

NOTES:
EXISTING SCENARIO SHOWN IN SEPIA
CONSENTED SCHEME SHOWN IN ORANGE
SITE LOCATION

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
PLOT F JACKSON STREET, MANCHESTER

DRAWING NAME:
3D VIEW EXISTING

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS	MB	4	JULY21
PROJ No.	REL No.	IS No.	DWG No.	REV No.
1366	02	01	03	-

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SOURCES OF INFORMATION

IR18-20210611-SimpsonHaugh
IR19-Planning portal
IR20-Vertex

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NOTES:
PROPOSED SCHEME SHOWN IN TEAL
CONSENTED SCHEME SHOWN IN ORANGE
——— SITE LOCATION

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:

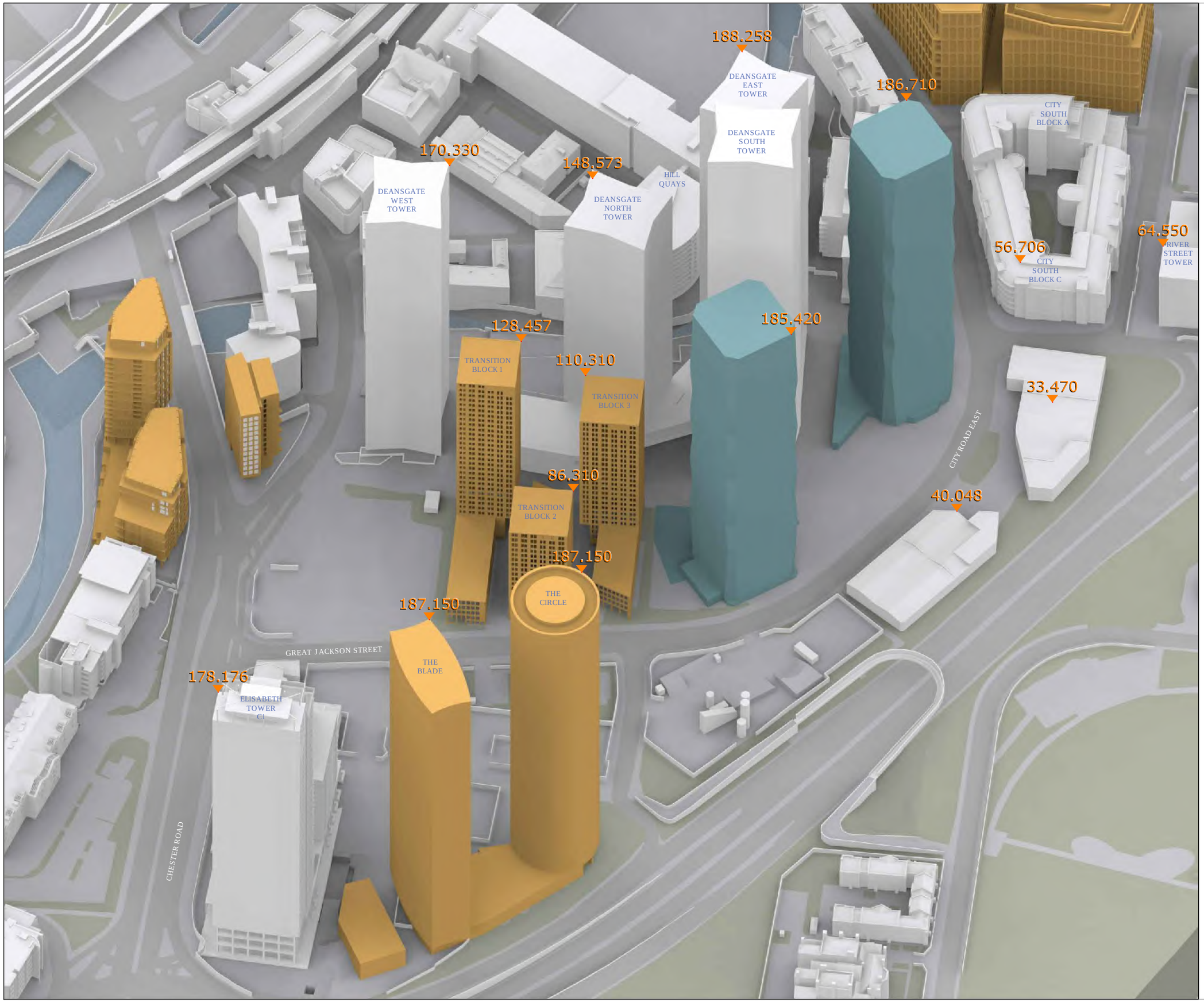
PLOT F JACKSON STREET, MANCHESTER

DRAWING NAME:

PLAN VIEW PROPOSED

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS	MB	4	JULY21
PROJ No.	REL No.	IS No.	DWG No.	REV No.
1366	02	01	04	-

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IR19-Planning portal
IR20-Vertex

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

NOTES:
PROPOSED SCHEME SHOWN IN TEAL
CONSENTED SCHEME SHOWN IN ORANGE

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
PLOT F JACKSON STREET, MANCHESTER

DRAWING NAME:
3D VIEW PROPOSED

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS	MB	4	JULY21
PROJ No.	REL No.	IS No.	DWG No.	REV No.
1366	02	01	05	-

gia
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Manchester
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SOURCES OF INFORMATION

IR18-20210611-SimpsonHaugh
IR19-Planning portal
IR20-Vertex

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ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

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PROJECT:
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Appendix 8.2 – Daylight and Sunlight Results for Baseline v Proposed

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
HILL QUAYS																					
F01	R1	RESIDENTIAL	BEDROOM	W1/F01	5.2	5.2	0	0.0%	YES	40.3	40.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	LKD	W2/F01	0	0	0	-	YES	17.9	17.9	0.0	0.0%	YES	3	0	3	0	0.0%	0.0%	YES
			LKD	W3/F01	0.8	0.8	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W4/F01	0	0	0	-	YES	36.2	36.2	0.0	0.0%	YES	2	0	2	0	0.0%	0.0%	YES
			LKD	W5/F01	0.8	0.8	0	0.0%	YES												
			LKD	W6/F01	0.8	0.8	0	0.0%	YES												
			LKD	W7/F01	0.8	0.8	0	0.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W8/F01	0.8	0.8	0	0.0%	YES	52.9	42.8	1.1	19.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F01	0.8	0.7	0.1	12.5%	YES												
	R5	RESIDENTIAL	LKD	W10/F01	0.8	0.6	0.2	25.0%	NO	96.2	32.8	10.5	65.9%	NO	2	0	2	0	0.0%	0.0%	YES
			LKD	W11/F01	0.9	0.6	0.3	33.3%	NO												
			LKD	W12/F01	0.9	0.5	0.4	44.4%	NO												
	R6	RESIDENTIAL	LKD	W13/F01	0.9	0.1	0.8	88.9%	NO	90.6	30.9	12.5	65.9%	NO	5	2	2	0	60.0%	100.0%	YES
			LKD	W14/F01	1.3	0.3	1	76.9%	NO												
			LKD	W15/F01	1.7	0.6	1.1	64.7%	NO												
	R7	RESIDENTIAL	BEDROOM	W16/F01	2	1.1	0.9	45.0%	NO	74.6	66.8	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W17/F01	2.3	1.4	0.9	39.1%	NO												
	R8	RESIDENTIAL	BEDROOM	W18/F01	2.8	2	0.8	28.6%	NO	71.7	64.6	0.7	9.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F01	3.2	2.5	0.7	21.9%	NO												
	R9	RESIDENTIAL	LKD	W20/F01	4	3.1	0.9	22.5%	NO	93.1	78.8	3.0	15.4%	YES	12	10	9	7	25.0%	30.0%	YES
			LKD	W21/F01	4.9	3.5	1.4	28.6%	NO												
			LKD	W22/F01	4.5	2.7	1.8	40.0%	NO												
	R10	RESIDENTIAL	BEDROOM	W23/F01	5.7	3.6	2.1	36.8%	NO	72.2	61	2.1	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	LKD	W24/F01	1.4	1	0.4	28.6%	NO	95.3	77	5.7	19.3%	YES	34	8	30	7	11.8%	12.5%	YES
			LKD	W25/F01	16	12.6	3.4	21.3%	NO												
			LKD	W26/F01	16.7	13	3.7	22.2%	NO												
	R12	RESIDENTIAL	BEDROOM	W27/F01	6.3	3.8	2.5	39.7%	NO	75.8	66.8	1.0	11.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W28/F01	0	0	0	-	YES	100	88.6	3.2	11.4%	YES	35	9	26	4	25.7%	55.6%	NO
			LKD	W29/F01	17	13.1	3.9	22.9%	NO												
			LKD	W30/F01	16.6	12.6	4	24.1%	NO												
	R14	RESIDENTIAL	BEDROOM	W31/F01	4.5	1.6	2.9	64.4%	NO	63.4	54.3	1.0	14.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HILL QUAYS (CONTINUED)																					
	R15	RESIDENTIAL	LKD	W32/F01	0.3	0	0.3	100.0%	NO	91	89.5	0.4	1.7%	YES	33	7	21	1	36.4%	85.7%	NO
			LKD	W33/F01	15.4	11.1	4.3	27.9%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W34/F01	14.8	10.4	4.4	29.7%	NO												
			LKD	W35/F01	7.1	7.1	0	0.0%	YES												
	R16	RESIDENTIAL	LKD	W37/F01	3.2	2.5	0.7	21.9%	NO	89.5	55.1	9.3	38.5%	NO	24	3	15	0	37.5%	100.0%	NO
			LKD	W38/F01	12.5	10.3	2.2	17.6%	YES												
F02	R1	RESIDENTIAL	BEDROOM	W1/F02	5.4	5.4	0	0.0%	YES	40.7	40.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	LKD	W2/F02	0	0	0	-	YES	18.1	18.1	0.0	0.0%	YES	3	0	3	0	0.0%	0.0%	YES
			LKD	W3/F02	0.9	0.9	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W4/F02	0	0	0	-	YES	36.6	36.6	0.0	0.0%	YES	2	0	2	0	0.0%	0.0%	YES
			LKD	W5/F02	0.9	0.9	0	0.0%	YES												
			LKD	W6/F02	0.9	0.9	0	0.0%	YES												
			LKD	W7/F02	0.9	0.9	0	0.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W8/F02	0.9	0.9	0	0.0%	YES	50.9	42.9	0.8	15.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F02	0.9	0.8	0.1	11.1%	YES												
	R5	RESIDENTIAL	LKD	W10/F02	0.9	0.7	0.2	22.2%	NO	96.3	33	10.5	65.8%	NO	3	1	2	0	33.3%	100.0%	YES
			LKD	W11/F02	1	0.6	0.4	40.0%	NO												
			LKD	W12/F02	1	0.5	0.5	50.0%	NO												
	R6	RESIDENTIAL	LKD	W13/F02	1	0.1	0.9	90.0%	NO	90.9	30.4	12.7	66.5%	NO	6	3	3	1	50.0%	66.7%	YES
			LKD	W14/F02	1.4	0.3	1.1	78.6%	NO												
			LKD	W15/F02	1.9	0.7	1.2	63.2%	NO												
	R7	RESIDENTIAL	BEDROOM	W16/F02	2.2	1.2	1	45.5%	NO	74.7	66.9	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W17/F02	2.5	1.5	1	40.0%	NO												
	R8	RESIDENTIAL	BEDROOM	W18/F02	3.1	2.2	0.9	29.0%	NO	71.6	64.7	0.7	9.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F02	3.5	2.7	0.8	22.9%	NO												
	R9	RESIDENTIAL	LKD	W20/F02	4.3	3.4	0.9	20.9%	NO	92.9	78.8	2.9	15.2%	YES	12	10	9	7	25.0%	30.0%	YES
			LKD	W21/F02	5.3	3.8	1.5	28.3%	NO												
			LKD	W22/F02	4.7	2.8	1.9	40.4%	NO												
	R10	RESIDENTIAL	BEDROOM	W23/F02	6	3.9	2.1	35.0%	NO	72.8	61.6	2.1	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	LKD	W24/F02	1.5	1.1	0.4	26.7%	NO	95.4	77	5.7	19.3%	YES	36	8	32	7	11.1%	12.5%	YES
			LKD	W25/F02	17	13.5	3.5	20.6%	NO												
HILL QUAYS (CONTINUED)																					
			LKD	W26/F02	17.8	14.1	3.7	20.8%	NO												
	R12	RESIDENTIAL	BEDROOM	W27/F02	7.3	4.7	2.6	35.6%	NO	76.5	67.5	1.0	11.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W28/F02	0	0	0	-	YES	100	88.6	3.2	11.4%	YES	37	9	28	4	24.3%	55.6%	NO
			LKD	W29/F02	18.4	14.5	3.9	21.2%	NO												
			LKD	W30/F02	18.1	14	4.1	22.7%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R14	RESIDENTIAL	BEDROOM	W31/F02	5.5	2.6	2.9	52.7%	NO	66.4	57.3	1.0	13.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W32/F02	0.3	0	0.3	100.0%	NO	91.3	89.8	0.4	1.7%	YES	35	7	23	1	34.3%	85.7%	NO
			LKD	W33/F02	17.1	12.7	4.4	25.7%	NO												
			LKD	W34/F02	16.5	12.1	4.4	26.7%	NO												
			LKD	W35/F02	8.1	8.1	0	0.0%	YES												
			LKD	W36/F02	2.4	2.4	0	0.0%	YES												
	R16	RESIDENTIAL	LKD	W37/F02	3.7	2.9	0.8	21.6%	NO	90.1	58.6	8.5	35.0%	NO	31	4	21	0	32.3%	100.0%	NO
			LKD	W38/F02	14.5	12.1	2.4	16.6%	YES												
	R17	RESIDENTIAL	BEDROOM	W39/F02	12.7	11	1.7	13.4%	YES	29.9	24.6	0.6	17.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R18	RESIDENTIAL	LKD	W40/F02	8.6	7.1	1.5	17.4%	YES	84	84	0.0	0.0%	YES	28	0	24	0	14.3%	0.0%	YES
			LKD	W41/F02 / INC (2)	21.9	21.9	0	0.0%	YES												
			LKD	W42/F02 / INC (2)	7.9	7.9	0	0.0%	YES												
F03	R1	RESIDENTIAL	BEDROOM	W1/F03	5.6	5.6	0	0.0%	YES	41.1	41.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	LKD	W2/F03	0	0	0	-	YES	18.1	18.1	0.0	0.0%	YES	3	0	3	0	0.0%	0.0%	YES
			LKD	W3/F03	1	1	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W4/F03	0	0	0	-	YES	36.8	36.8	0.0	0.0%	YES	2	0	2	0	0.0%	0.0%	YES
			LKD	W5/F03	1	1	0	0.0%	YES												
			LKD	W6/F03	1	1	0	0.0%	YES												
			LKD	W7/F03	1	1	0	0.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W8/F03	0.9	0.9	0	0.0%	YES	51	43	0.8	15.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F03	0.9	0.8	0.1	11.1%	YES												
	R5	RESIDENTIAL	LKD	W10/F03	1	0.8	0.2	20.0%	YES	96.3	33.1	10.5	65.7%	NO	3	1	2	0	33.3%	100.0%	YES
			LKD	W11/F03	1	0.7	0.3	30.0%	NO												
			LKD	W12/F03	1.1	0.6	0.5	45.5%	NO												
	R6	RESIDENTIAL	LKD	W13/F03	1	0.1	0.9	90.0%	NO	90.9	30.4	12.7	66.5%	NO	6	3	3	1	50.0%	66.7%	YES
			LKD	W14/F03	1.5	0.4	1.1	73.3%	NO												
HILL QUAYS (CONTINUED)																					
			LKD	W15/F03	2	0.8	1.2	60.0%	NO												
	R7	RESIDENTIAL	BEDROOM	W16/F03	2.3	1.3	1	43.5%	NO	74.7	66.9	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W17/F03	2.6	1.6	1	38.5%	NO												
	R8	RESIDENTIAL	BEDROOM	W18/F03	3.3	2.4	0.9	27.3%	NO	71.6	64.7	0.7	9.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F03	3.7	2.9	0.8	21.6%	NO												
	R9	RESIDENTIAL	LKD	W20/F03	4.6	3.6	1	21.7%	NO	93	78.6	3.0	15.5%	YES	13	11	10	8	23.1%	27.3%	YES
			LKD	W21/F03	5.6	4	1.6	28.6%	NO												
			LKD	W22/F03	4.8	2.9	1.9	39.6%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R10	RESIDENTIAL	BEDROOM	W23/F03	6.5	4.3	2.2	33.8%	NO	73.9	62.5	2.1	15.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	LKD	W24/F03	1.6	1.1	0.5	31.2%	NO	95.4	77	5.7	19.3%	YES	38	9	34	8	10.5%	11.1%	YES
			LKD	W25/F03	18	14.4	3.6	20.0%	YES												
			LKD	W26/F03	18.9	15.2	3.7	19.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W27/F03	8.3	5.7	2.6	31.3%	NO	78.9	69.9	1.0	11.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W28/F03	0	0	0	-	YES	100	88.6	3.2	11.4%	YES	41	9	32	4	22.0%	55.6%	NO
			LKD	W29/F03	19.9	16	3.9	19.6%	YES												
			LKD	W30/F03	19.7	15.6	4.1	20.8%	NO												
	R14	RESIDENTIAL	BEDROOM	W31/F03	6.9	4	2.9	42.0%	NO	70.9	61.8	1.0	12.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W32/F03	0.3	0	0.3	100.0%	NO	92.2	90.6	0.4	1.7%	YES	40	8	28	2	30.0%	75.0%	NO
			LKD	W33/F03	19	14.6	4.4	23.2%	NO												
			LKD	W34/F03	18.5	14.1	4.4	23.8%	NO												
			LKD	W35/F03	9.1	9.1	0	0.0%	YES												
			LKD	W36/F03	3.4	3.4	0	0.0%	YES												
	R16	RESIDENTIAL	LKD	W37/F03	4.3	3.5	0.8	18.6%	YES	90.8	63.1	7.5	30.5%	NO	37	4	27	0	27.0%	100.0%	NO
			LKD	W38/F03	16.9	14.2	2.7	16.0%	YES												
	R17	RESIDENTIAL	BEDROOM	W39/F03	15.2	13.2	2	13.2%	YES	41	34.4	0.8	15.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R18	RESIDENTIAL	LKD	W40/F03	10.5	8.7	1.8	17.1%	YES	85.5	85.5	0.0	0.0%	YES	37	1	33	1	10.8%	0.0%	YES
			LKD	W41/F03 / INC (2)	23.5	23.5	0	0.0%	YES												
			LKD	W42/F03 / INC (2)	8.3	8.3	0	0.0%	YES												
F04	R1	RESIDENTIAL	BEDROOM	W1/F04	5.8	5.8	0	0.0%	YES	41.5	41.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	LKD	W2/F04	0.1	0.1	0	0.0%	YES	18.2	18.2	0.0	0.0%	YES	3	0	3	0	0.0%	0.0%	YES
			LKD	W3/F04	1.1	1.1	0	0.0%	YES												
HILL QUAYS (CONTINUED)																					
	R3	RESIDENTIAL	LKD	W4/F04	0	0	0	-	YES	36.9	36.9	0.0	0.0%	YES	2	0	2	0	0.0%	0.0%	YES
			LKD	W5/F04	1.1	1.1	0	0.0%	YES												
			LKD	W6/F04	1	1	0	0.0%	YES												
			LKD	W7/F04	1	1	0	0.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W8/F04	1	1	0	0.0%	YES	51	43.1	0.8	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F04	1	0.9	0.1	10.0%	YES												
	R5	RESIDENTIAL	LKD	W10/F04	1.1	0.8	0.3	27.3%	NO	96.3	33.1	10.5	65.6%	NO	3	1	2	0	33.3%	100.0%	YES
			LKD	W11/F04	1.1	0.7	0.4	36.4%	NO												
			LKD	W12/F04	1.1	0.6	0.5	45.5%	NO												
	R6	RESIDENTIAL	LKD	W13/F04	1	0.1	0.9	90.0%	NO	90.9	30.4	12.7	66.5%	NO	6	3	3	1	50.0%	66.7%	YES
			LKD	W14/F04	1.5	0.4	1.1	73.3%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W15/F04	2.1	0.9	1.2	57.1%	NO												
	R7	RESIDENTIAL	BEDROOM	W16/F04	2.4	1.4	1	41.7%	NO	74.7	66.9	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W17/F04	2.8	1.7	1.1	39.3%	NO												
	R8	RESIDENTIAL	BEDROOM	W18/F04	3.4	2.5	0.9	26.5%	NO	71.6	64.7	0.7	9.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F04	3.9	3.1	0.8	20.5%	NO												
	R9	RESIDENTIAL	LKD	W20/F04	4.8	3.8	1	20.8%	NO	93	78.5	3.0	15.6%	YES	13	11	10	8	23.1%	27.3%	YES
			LKD	W21/F04	5.8	4.3	1.5	25.9%	NO												
			LKD	W22/F04	4.9	2.9	2	40.8%	NO												
	R10	RESIDENTIAL	BEDROOM	W23/F04	6.9	4.7	2.2	31.9%	NO	75.3	63.9	2.1	15.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	LKD	W24/F04	1.6	1.1	0.5	31.2%	NO	95.4	77	5.7	19.3%	YES	40	9	36	8	10.0%	11.1%	YES
			LKD	W25/F04	19	15.4	3.6	18.9%	YES												
			LKD	W26/F04	19.9	16.2	3.7	18.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W27/F04	9.5	6.8	2.7	28.4%	NO	79.6	70.5	1.0	11.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W28/F04	0	0	0	-	YES	100	88.6	3.2	11.4%	YES	43	11	34	6	20.9%	45.5%	YES
			LKD	W29/F04	21.5	17.6	3.9	18.1%	YES												
			LKD	W30/F04	21.4	17.3	4.1	19.2%	YES												
	R14	RESIDENTIAL	BEDROOM	W31/F04	8.5	5.5	3	35.3%	NO	78.5	69.4	1.0	11.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W32/F04	0.3	0	0.3	100.0%	NO	93.8	92.3	0.3	1.6%	YES	43	9	31	3	27.9%	66.7%	NO
			LKD	W33/F04	21	16.6	4.4	21.0%	NO												
			LKD	W34/F04	20.7	16.2	4.5	21.7%	NO												
HILL QUAYS (CONTINUED)																					
			LKD	W35/F04	10.4	10.4	0	0.0%	YES												
			LKD	W36/F04	4.8	4.8	0	0.0%	YES												
	R16	RESIDENTIAL	LKD	W37/F04	5.2	4.4	0.8	15.4%	YES	92.5	74.9	4.8	19.0%	YES	41	6	31	2	24.4%	66.7%	NO
			LKD	W38/F04	19.6	16.6	3	15.3%	YES												
	R17	RESIDENTIAL	BEDROOM	W39/F04	18	15.6	2.4	13.3%	YES	60.1	52.5	0.9	12.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R18	RESIDENTIAL	LKD	W40/F04	12.8	10.6	2.2	17.2%	YES	86.9	86.9	0.0	0.0%	YES	42	5	36	3	14.3%	40.0%	NO
			LKD	W41/F04 / INC (2)	25.1	25.1	0	0.0%	YES												
			LKD	W42/F04 / INC (2)	8.7	8.7	0	0.0%	YES												
F05	R1	RESIDENTIAL	BEDROOM	W1/F05	6	6	0	0.0%	YES	41.8	41.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	LKD	W2/F05	0.1	0.1	0	0.0%	YES	18.2	18.2	0.0	0.0%	YES	3	0	3	0	0.0%	0.0%	YES
			LKD	W3/F05	1.1	1.1	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W4/F05	0	0	0	-	YES	36.9	36.9	0.0	0.0%	YES	2	0	2	0	0.0%	0.0%	YES
			LKD	W5/F05	1.1	1.1	0	0.0%	YES												
			LKD	W6/F05	1.1	1.1	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W7/F05	1	1	0	0.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W8/F05	1	1	0	0.0%	YES	51	43.1	0.8	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F05	1	0.9	0.1	10.0%	YES												
	R5	RESIDENTIAL	LKD	W10/F05	1.1	0.8	0.3	27.3%	NO	96.3	33.1	10.5	65.6%	NO	3	1	2	0	33.3%	100.0%	YES
			LKD	W11/F05	1.1	0.8	0.3	27.3%	NO												
			LKD	W12/F05	1.2	0.6	0.6	50.0%	NO												
	R6	RESIDENTIAL	LKD	W13/F05	1.1	0.2	0.9	81.8%	NO	90.9	30.4	12.7	66.5%	NO	6	3	3	1	50.0%	66.7%	YES
			LKD	W14/F05	1.6	0.4	1.2	75.0%	NO												
			LKD	W15/F05	2.2	1	1.2	54.5%	NO												
	R7	RESIDENTIAL	BEDROOM	W16/F05	2.5	1.5	1	40.0%	NO	74.7	66.9	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W17/F05	2.9	1.8	1.1	37.9%	NO												
	R8	RESIDENTIAL	BEDROOM	W18/F05	3.6	2.7	0.9	25.0%	NO	71.7	64.7	0.7	9.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F05	4.1	3.3	0.8	19.5%	YES												
	R9	RESIDENTIAL	LKD	W20/F05	5.1	4	1.1	21.6%	NO	93.1	78.5	3.0	15.6%	YES	14	12	11	9	21.4%	25.0%	YES
			LKD	W21/F05	6.1	4.5	1.6	26.2%	NO												
			LKD	W22/F05	5	3	2	40.0%	NO												
	R10	RESIDENTIAL	BEDROOM	W23/F05	7.3	5.1	2.2	30.1%	NO	76.3	64.9	2.1	14.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HILL QUAYS (CONTINUED)																					
	R11	RESIDENTIAL	LKD	W24/F05	1.6	1.1	0.5	31.2%	NO	95.5	77	5.7	19.3%	YES	42	10	38	9	9.5%	10.0%	YES
			LKD	W25/F05	19.8	16.2	3.6	18.2%	YES												
			LKD	W26/F05	20.9	17.2	3.7	17.7%	YES												
	R12	RESIDENTIAL	BEDROOM	W27/F05	10.4	7.7	2.7	26.0%	NO	79.6	70.5	1.0	11.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W28/F05	0	0	0	-	YES	100	88.6	3.2	11.4%	YES	48	14	39	9	18.8%	35.7%	YES
			LKD	W29/F05	23	19	4	17.4%	YES												
			LKD	W30/F05	23.1	19	4.1	17.7%	YES												
	R14	RESIDENTIAL	BEDROOM	W31/F05	10	7	3	30.0%	NO	85.1	76.1	1.0	10.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W32/F05	0.3	0	0.3	100.0%	NO	95.2	93.7	0.3	1.6%	YES	47	12	35	6	25.5%	50.0%	YES
			LKD	W33/F05	23.1	18.8	4.3	18.6%	YES												
			LKD	W34/F05	23	18.5	4.5	19.6%	YES												
			LKD	W35/F05	12.1	12.1	0	0.0%	YES												
			LKD	W36/F05	6.9	6.9	0	0.0%	YES												
	R16	RESIDENTIAL	LKD	W37/F05	6.6	5.8	0.8	12.1%	YES	96.8	94	0.8	2.9%	YES	45	9	35	5	22.2%	44.4%	YES
			LKD	W38/F05	22.5	19.3	3.2	14.2%	YES												
	R17	RESIDENTIAL	BEDROOM	W39/F05	21.1	18.3	2.8	13.3%	YES	78.5	71.4	0.8	9.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R18	RESIDENTIAL	LKD	W40/F05	15.3	12.8	2.5	16.3%	YES	91.1	90.9	0.1	0.2%	YES	44	7	38	5	13.6%	28.6%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W41/F05 / INC (2)	26.8	26.8	0	0.0%	YES												
			LKD	W42/F05 / INC (2)	9.5	9.5	0	0.0%	YES												
F06	R1	RESIDENTIAL	BEDROOM	W1/F06	6.1	6.1	0	0.0%	YES	42.3	42.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	LKD	W2/F06	0.1	0.1	0	0.0%	YES	18.6	18.6	0.0	0.0%	YES	3	0	3	0	0.0%	0.0%	YES
			LKD	W3/F06	1.1	1.1	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W4/F06	0	0	0	-	YES	36.9	36.9	0.0	0.0%	YES	2	0	2	0	0.0%	0.0%	YES
			LKD	W5/F06	1.1	1.1	0	0.0%	YES												
			LKD	W6/F06	1.1	1.1	0	0.0%	YES												
			LKD	W7/F06	1.1	1.1	0	0.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W8/F06	1.1	1.1	0	0.0%	YES	51	43.1	0.8	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F06	1	1	0	0.0%	YES												
	R5	RESIDENTIAL	LKD	W10/F06	1.1	0.9	0.2	18.2%	YES	96.3	33.1	10.5	65.6%	NO	3	1	2	0	33.3%	100.0%	YES
			LKD	W11/F06	1.2	0.8	0.4	33.3%	NO												
			LKD	W12/F06	1.2	0.7	0.5	41.7%	NO												
HILL QUAYS (CONTINUED)																					
	R6	RESIDENTIAL	LKD	W13/F06	1.1	0.2	0.9	81.8%	NO	90.9	30.4	12.7	66.5%	NO	6	3	3	1	50.0%	66.7%	YES
			LKD	W14/F06	1.6	0.5	1.1	68.8%	NO												
			LKD	W15/F06	2.2	1	1.2	54.5%	NO												
	R7	RESIDENTIAL	BEDROOM	W16/F06	2.6	1.6	1	38.5%	NO	74.7	66.9	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W17/F06	3	1.9	1.1	36.7%	NO												
	R8	RESIDENTIAL	BEDROOM	W18/F06	3.7	2.8	0.9	24.3%	NO	71.7	64.7	0.7	9.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F06	4.3	3.5	0.8	18.6%	YES												
	R9	RESIDENTIAL	LKD	W20/F06	5.3	4.3	1	18.9%	YES	93.1	78.5	3.0	15.7%	YES	15	13	12	10	20.0%	23.1%	YES
			LKD	W21/F06	6.3	4.7	1.6	25.4%	NO												
			LKD	W22/F06	5.1	3.1	2	39.2%	NO												
	R10	RESIDENTIAL	BEDROOM	W23/F06	7.6	5.4	2.2	28.9%	NO	76.5	65.1	2.1	14.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	LKD	W24/F06	1.6	1.1	0.5	31.2%	NO	95.5	77.1	5.7	19.3%	YES	43	11	39	10	9.3%	9.1%	YES
			LKD	W25/F06	20.4	16.9	3.5	17.2%	YES												
			LKD	W26/F06	21.6	17.9	3.7	17.1%	YES												
	R12	RESIDENTIAL	BEDROOM	W27/F06	11.1	8.4	2.7	24.3%	NO	79.6	70.6	1.0	11.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W28/F06	0	0	0	-	YES	100	88.6	3.2	11.4%	YES	50	15	41	10	18.0%	33.3%	YES
			LKD	W29/F06	24.1	20.1	4	16.6%	YES												
			LKD	W30/F06	24.3	20.2	4.1	16.9%	YES												
	R14	RESIDENTIAL	BEDROOM	W31/F06	11.2	8.2	3	26.8%	NO	86.4	77.3	1.0	10.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W32/F06	0.3	0	0.3	100.0%	NO	96	94.5	0.3	1.5%	YES	50	14	39	8	22.0%	42.9%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W33/F06	24.9	20.5	4.4	17.7%	YES												
			LKD	W34/F06	24.9	20.5	4.4	17.7%	YES												
			LKD	W35/F06	14.5	14.5	0	0.0%	YES												
			LKD	W36/F06	9.7	9.7	0	0.0%	YES												
	R16	RESIDENTIAL	LKD	W37/F06	8.9	8	0.9	10.1%	YES	99.6	99.2	0.1	0.3%	YES	51	15	40	10	21.6%	33.3%	YES
			LKD	W38/F06	25.2	21.6	3.6	14.3%	YES												
	R17	RESIDENTIAL	BEDROOM	W39/F06	23.8	20.7	3.1	13.0%	YES	84.1	77	0.8	8.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R18	RESIDENTIAL	LKD	W40/F06	17.7	14.8	2.9	16.4%	YES	97.8	97.8	0.0	0.0%	YES	52	14	44	10	15.4%	28.6%	YES
			LKD	W41/F06 / INC (2)	28.6	28.6	0	0.0%	YES												
			LKD	W42/F06 / INC (2)	11	11	0	0.0%	YES												
F07	R1	RESIDENTIAL	BEDROOM	W1/F07	6.3	6.3	0	0.0%	YES	42.8	42.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HILL QUAYS (CONTINUED)																					
	R2	RESIDENTIAL	LKD	W2/F07	0.1	0.1	0	0.0%	YES	18.8	18.8	0.0	0.0%	YES	3	0	3	0	0.0%	0.0%	YES
			LKD	W3/F07	1.1	1.1	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W4/F07	0	0	0	-	YES	37	37	0.0	0.0%	YES	2	0	2	0	0.0%	0.0%	YES
			LKD	W5/F07	1.1	1.1	0	0.0%	YES												
			LKD	W6/F07	1.1	1.1	0	0.0%	YES												
			LKD	W7/F07	1.1	1.1	0	0.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W8/F07	1.1	1.1	0	0.0%	YES	51	43.1	0.8	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F07	1.1	1	0.1	9.1%	YES												
	R5	RESIDENTIAL	LKD	W10/F07	1.1	0.9	0.2	18.2%	YES	96.3	33.1	10.5	65.6%	NO	3	1	2	0	33.3%	100.0%	YES
			LKD	W11/F07	1.2	0.8	0.4	33.3%	NO												
			LKD	W12/F07	1.2	0.7	0.5	41.7%	NO												
	R6	RESIDENTIAL	LKD	W13/F07	1.1	0.2	0.9	81.8%	NO	90.9	30.4	12.7	66.5%	NO	6	3	3	1	50.0%	66.7%	YES
			LKD	W14/F07	1.7	0.5	1.2	70.6%	NO												
			LKD	W15/F07	2.3	1.1	1.2	52.2%	NO												
	R7	RESIDENTIAL	BEDROOM	W16/F07	2.7	1.6	1.1	40.7%	NO	74.7	66.9	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W17/F07	3.1	2	1.1	35.5%	NO												
	R8	RESIDENTIAL	BEDROOM	W18/F07	3.9	3	0.9	23.1%	NO	71.7	64.7	0.7	9.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F07	4.4	3.6	0.8	18.2%	YES												
	R9	RESIDENTIAL	LKD	W20/F07	5.5	4.5	1	18.2%	YES	93.1	78.7	3.0	15.5%	YES	15	13	12	10	20.0%	23.1%	YES
			LKD	W21/F07	6.5	4.9	1.6	24.6%	NO												
			LKD	W22/F07	5.1	3.1	2	39.2%	NO												
	R10	RESIDENTIAL	BEDROOM	W23/F07	7.9	5.7	2.2	27.8%	NO	76.6	65.2	2.1	14.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	LKD	W24/F07	1.6	1.1	0.5	31.2%	NO	95.5	77.1	5.7	19.3%	YES	44	12	41	11	6.8%	8.3%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W25/F07	21	17.4	3.6	17.1%	YES												
			LKD	W26/F07	22.2	18.5	3.7	16.7%	YES												
	R12	RESIDENTIAL	BEDROOM	W27/F07	11.7	9	2.7	23.1%	NO	79.6	70.7	1.0	11.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W28/F07	0	0	0	-	YES	100	88.6	3.2	11.4%	YES	51	16	42	11	17.6%	31.3%	YES
			LKD	W29/F07	25	21.1	3.9	15.6%	YES												
			LKD	W30/F07	25.3	21.2	4.1	16.2%	YES												
	R14	RESIDENTIAL	BEDROOM	W31/F07	12.2	9.2	3	24.6%	NO	86.4	77.3	1.0	10.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W32/F07	0.3	0	0.3	100.0%	NO	96	94.6	0.3	1.5%	YES	52	17	41	11	21.2%	35.3%	YES
HILL QUAYS (CONTINUED)																					
			LKD	W33/F07	26.3	21.9	4.4	16.7%	YES												
			LKD	W34/F07	26.4	22	4.4	16.7%	YES												
			LKD	W35/F07	18.8	18.8	0	0.0%	YES												
	R16	RESIDENTIAL	LKD	W37/F07	12.4	11.5	0.9	7.3%	YES	99.6	99.2	0.1	0.3%	YES	53	17	43	12	18.9%	29.4%	YES
			LKD	W38/F07	27.1	23.2	3.9	14.4%	YES												
	R17	RESIDENTIAL	BEDROOM	W39/F07	25.3	21.8	3.5	13.8%	YES	84.1	77	0.8	8.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R18	RESIDENTIAL	LKD	W40/F07	19.1	16	3.1	16.2%	YES	100	100	0.0	0.0%	YES	56	17	48	13	14.3%	23.5%	YES
			LKD	W41/F07 / INC (2)	30.2	30.2	0	0.0%	YES												
			LKD	W42/F07 / INC (2)	14	14	0	0.0%	YES												
F08	R1	RESIDENTIAL	BEDROOM	W1/F08	6.4	6.4	0	0.0%	YES	43.1	43.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	LKD	W2/F08	0.1	0.1	0	0.0%	YES	19	19	0.0	0.0%	YES	3	0	3	0	0.0%	0.0%	YES
			LKD	W3/F08	1.1	1.1	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W4/F08	0	0	0	-	YES	37.1	37.1	0.0	0.0%	YES	2	0	2	0	0.0%	0.0%	YES
			LKD	W5/F08	1.1	1.1	0	0.0%	YES												
			LKD	W6/F08	1.1	1.1	0	0.0%	YES												
			LKD	W7/F08	1.1	1.1	0	0.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W8/F08	1.1	1.1	0	0.0%	YES	51	43.1	0.8	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F08	1.1	1	0.1	9.1%	YES												
	R5	RESIDENTIAL	LKD	W10/F08	1.1	0.9	0.2	18.2%	YES	96.3	33.1	10.5	65.6%	NO	3	1	2	0	33.3%	100.0%	YES
			LKD	W11/F08	1.2	0.8	0.4	33.3%	NO												
			LKD	W12/F08	1.2	0.7	0.5	41.7%	NO												
	R6	RESIDENTIAL	LKD	W13/F08	1.2	0.2	1	83.3%	NO	90.9	30.4	12.7	66.6%	NO	6	3	3	1	50.0%	66.7%	YES
			LKD	W14/F08	1.7	0.6	1.1	64.7%	NO												
			LKD	W15/F08	2.4	1.1	1.3	54.2%	NO												
	R7	RESIDENTIAL	BEDROOM	W16/F08	2.8	1.7	1.1	39.3%	NO	74.7	66.9	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W17/F08	3.2	2.1	1.1	34.4%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R8	RESIDENTIAL	BEDROOM	W18/F08	4	3.1	0.9	22.5%	NO	71.6	64.7	0.7	9.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F08	4.6	3.8	0.8	17.4%	YES												
	R9	RESIDENTIAL	LKD	W20/F08	5.7	4.6	1.1	19.3%	YES	93	78.7	3.0	15.4%	YES	15	13	12	10	20.0%	23.1%	YES
			LKD	W21/F08	6.6	5.1	1.5	22.7%	NO												
			LKD	W22/F08	5.2	3.2	2	38.5%	NO												
HILL QUAYS (CONTINUED)																					
	R10	RESIDENTIAL	BEDROOM	W23/F08	8.4	6	2.4	28.6%	NO	78.3	65.5	2.4	16.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	LKD	W24/F08	1.7	1.2	0.5	29.4%	NO	95.5	77.1	5.7	19.3%	YES	44	12	42	11	4.5%	8.3%	YES
			LKD	W25/F08	21.5	18	3.5	16.3%	YES												
			LKD	W26/F08	22.8	19.1	3.7	16.2%	YES												
	R12	RESIDENTIAL	BEDROOM	W27/F08	12.3	9.5	2.8	22.8%	NO	79.6	70.8	1.0	11.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W28/F08	0	0	0	-	YES	100	88.6	3.2	11.4%	YES	51	16	42	11	17.6%	31.3%	YES
			LKD	W29/F08	25.8	21.9	3.9	15.1%	YES												
			LKD	W30/F08	26.2	22.2	4	15.3%	YES												
	R14	RESIDENTIAL	BEDROOM	W31/F08	13	10	3	23.1%	NO	86.4	77.4	1.0	10.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W32/F08	0.3	0	0.3	100.0%	NO	96	94.6	0.3	1.5%	YES	54	18	43	12	20.4%	33.3%	YES
			LKD	W33/F08	26.8	22.5	4.3	16.0%	YES												
			LKD	W34/F08	26.9	22.6	4.3	16.0%	YES												
			LKD	W35/F08	30.4	30.4	0	0.0%	YES												
			LKD	W36/F08	17.4	17.4	0	0.0%	YES												
	R16	RESIDENTIAL	LKD	W37/F08	16.2	15.3	0.9	5.6%	YES	99.6	99.2	0.1	0.3%	YES	57	19	47	14	17.5%	26.3%	YES
			LKD	W38/F08	28.4	24.3	4.1	14.4%	YES												
	R17	RESIDENTIAL	BEDROOM	W39/F08	22.1	18.5	3.6	16.3%	YES	84.1	77	0.8	8.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R18	RESIDENTIAL	LKD	W40/F08	17.6	14.3	3.3	18.8%	YES	100	100	0.0	0.0%	YES	52	18	45	14	13.5%	22.2%	YES
			LKD	W41/F08 / INC (2)	31.8	31.8	0	0.0%	YES												
			LKD	W42/F08 / INC (2)	19.7	19.7	0	0.0%	YES												
F09	R1	RESIDENTIAL	BEDROOM	W1/F09	6.6	6.6	0	0.0%	YES	43.7	43.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	LKD	W2/F09	0.1	0.1	0	0.0%	YES	19.5	19.5	0.0	0.0%	YES	3	0	3	0	0.0%	0.0%	YES
			LKD	W3/F09	1.2	1.2	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W4/F09	0	0	0	-	YES	37.3	37.3	0.0	0.0%	YES	2	0	2	0	0.0%	0.0%	YES
			LKD	W5/F09	1.1	1.1	0	0.0%	YES												
			LKD	W6/F09	1.1	1.1	0	0.0%	YES												
			LKD	W7/F09	1.1	1.1	0	0.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W8/F09	1.1	1.1	0	0.0%	YES	51.1	43.2	0.8	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F09	1.1	1	0.1	9.1%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R5	RESIDENTIAL	LKD	W10/F09	1.2	0.9	0.3	25.0%	NO	96.4	33.1	10.5	65.6%	NO	3	1	2	0	33.3%	100.0%	YES
			LKD	W11/F09	1.2	0.8	0.4	33.3%	NO												
HILL QUAYS (CONTINUED)																					
			LKD	W12/F09	1.3	0.7	0.6	46.2%	NO												
	R6	RESIDENTIAL	LKD	W13/F09	1.3	0.3	1	76.9%	NO	91	30.7	12.6	66.3%	NO	7	4	4	2	42.9%	50.0%	YES
			LKD	W14/F09	1.8	0.7	1.1	61.1%	NO												
			LKD	W15/F09	2.5	1.2	1.3	52.0%	NO												
	R7	RESIDENTIAL	BEDROOM	W16/F09	3	1.8	1.2	40.0%	NO	74.7	67	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W17/F09	3.3	2.2	1.1	33.3%	NO												
	R8	RESIDENTIAL	BEDROOM	W18/F09	4.4	3.5	0.9	20.5%	NO	71.7	64.7	0.7	9.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F09	5	4.2	0.8	16.0%	YES												
	R9	RESIDENTIAL	LKD	W20/F09	6.3	5.1	1.2	19.0%	YES	93.1	78.7	3.0	15.5%	YES	15	13	12	10	20.0%	23.1%	YES
			LKD	W21/F09	7	5.4	1.6	22.9%	NO												
			LKD	W22/F09	5.3	3.2	2.1	39.6%	NO												
	R10	RESIDENTIAL	BEDROOM	W23/F09	8.3	6.2	2.1	25.3%	NO	76.6	65.4	2.1	14.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	LKD	W24/F09	1.6	1.1	0.5	31.2%	NO	95.5	77.1	5.7	19.3%	YES	45	12	43	11	4.4%	8.3%	YES
			LKD	W25/F09	21.8	18.3	3.5	16.1%	YES												
			LKD	W26/F09	23.2	19.6	3.6	15.5%	YES												
	R12	RESIDENTIAL	BEDROOM	W27/F09	12.7	10	2.7	21.3%	NO	79.6	70.7	1.0	11.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W28/F09	0	0	0	-	YES	100	88.6	3.2	11.4%	YES	52	16	43	11	17.3%	31.3%	YES
			LKD	W29/F09	26.5	22.6	3.9	14.7%	YES												
			LKD	W30/F09	26.9	22.9	4	14.9%	YES												
	R14	RESIDENTIAL	BEDROOM	W31/F09	13.6	10.6	3	22.1%	NO	86.5	77.4	1.0	10.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W32/F09	0.3	0	0.3	100.0%	NO	96.1	94.6	0.3	1.5%	YES	56	18	45	12	19.6%	33.3%	YES
			LKD	W33/F09	28.1	23.8	4.3	15.3%	YES												
			LKD	W34/F09	28.4	24.1	4.3	15.1%	YES												
			LKD	W35/F09	33.9	33.9	0	0.0%	YES												
			LKD	W36/F09	20.8	20.8	0	0.0%	YES												
LUMIERE																					
F00	R1	RESIDENTIAL	LKD	W1/F00	12.8	12.8	0	0.0%	YES	94.7	94.7	0.0	0.0%	YES	37	12	37	12	0.0%	0.0%	YES
			LKD	W2/F00	12.3	12.3	0	0.0%	YES												
			LKD	W3/F00	10.7	10.6	0.1	0.9%	YES												
			LKD	W4/F00	8	7.9	0.1	1.2%	YES												
LUMIERE (CONTINUED)																					

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	BEDROOM	W5/F00	5.6	5.5	0.1	1.8%	YES	19.4	19.4	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W6/F00	2.6	2.6	0	0.0%	YES	10.5	10.5	0.0	0.0%	YES	14	6	14	6	0.0%	0.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W7/F00	1.5	1.5	0	0.0%	YES	11.4	11.4	0.0	0.0%	YES	3	3	3	3	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W8/F00	3.5	3.3	0.2	5.7%	YES	8.9	8.9	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W9/F00	3.7	3.5	0.2	5.4%	YES	8.1	8.1	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W10/F00	3.3	3.2	0.1	3.0%	YES	8.2	8.2	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8 (3)	RESIDENTIAL	LKD	W11/F00	0.9	0.9	0	0.0%	YES	6.5	6.5	0.0	0.0%	YES	7	3	7	3	0.0%	0.0%	YES
F01	R1	RESIDENTIAL	LKD	W1/F01 (dup.)	20.8	20.2	0.6	2.9%	YES	78	78	0.0	0.0%	YES	43	12	43	12	0.0%	0.0%	YES
			LKD	W2/F01 (dup.)	7.5	7.2	0.3	4.0%	YES												
			LKD	W3/F01	11.2	10.8	0.4	3.6%	YES												
	R2	RESIDENTIAL	LKD	W1/F01	20.8	20.2	0.6	2.9%	YES	96.7	96.7	0.0	0.0%	YES	39	9	39	9	0.0%	0.0%	YES
			LKD	W2/F01	7.5	7.2	0.3	4.0%	YES												
	R3	RESIDENTIAL	BEDROOM	W4/F01	6.5	6.1	0.4	6.2%	YES	19.6	19.3	0.0	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W5/F01	2.3	2.3	0	0.0%	YES	10.5	10.2	0.1	2.6%	YES	11	7	11	7	0.0%	0.0%	YES
	R5 (3)	RESIDENTIAL	LKD	W6/F01	0.8	0.8	0	0.0%	YES	2.5	2.5	0.0	0.4%	YES	0	0	0	0	0.0%	0.0%	YES
	R6	RESIDENTIAL	BEDROOM	W7/F01	4.3	3.9	0.4	9.3%	YES	9.4	9.2	0.0	1.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F01	4.5	4.2	0.3	6.7%	YES	8.6	8.4	0.0	2.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F01	4.1	3.8	0.3	7.3%	YES	8.8	8.7	0.0	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9 (3)	RESIDENTIAL	LKD	W10/F01	0.6	0.6	0	0.0%	YES	3.3	3.1	0.1	6.0%	YES	7	3	7	3	0.0%	0.0%	YES
	R10 (3)	RESIDENTIAL	LKD	W11/F01	1	1	0	0.0%	YES	2.8	2.8	0.0	0.0%	YES	0	0	0	0	0.0%	0.0%	YES
	R11	RESIDENTIAL	BEDROOM	W12/F01	4	3.7	0.3	7.5%	YES	7.7	7.6	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W13/F01	5.4	4.3	1.1	20.4%	NO	70.6	49.8	2.1	29.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W14/F01	9.4	7	2.4	25.5%	NO	46.1	43.7	0.2	5.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R14	RESIDENTIAL	LKD	W15/F01	7.2	3.8	3.4	47.2%	NO	50.9	48.3	0.5	5.2%	YES	20	9	14	6	30.0%	33.3%	NO
			LKD	W16/F01	0.8	0.8	0	0.0%	YES												
F02	R1	RESIDENTIAL	LKD	W1/F02	23.1	22.2	0.9	3.9%	YES	80.3	80.2	0.0	0.1%	YES	48	13	47	13	2.1%	0.0%	YES
			LKD	W2/F02	8.3	7.6	0.7	8.4%	YES												
			LKD	W3/F02	12.3	11.5	0.8	6.5%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F02	7.4	6.7	0.7	9.5%	YES	21	20.5	0.0	2.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W5/F02	2.5	2.5	0	0.0%	YES	11.3	10.8	0.1	4.5%	YES	12	8	12	8	0.0%	0.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W6/F02	0.8	0.8	0	0.0%	YES	2.6	2.6	0.0	0.3%	YES	0	0	0	0	0.0%	0.0%	YES
LUMIERE (CONTINUED)																					
	R5	RESIDENTIAL	BEDROOM	W7/F02	5.2	4.5	0.7	13.5%	YES	11.5	11.1	0.0	3.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F02	5.5	4.8	0.7	12.7%	YES	10.9	10.6	0.0	3.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F02	5.1	4.4	0.7	13.7%	YES	11.2	10.9	0.0	2.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R8 (3)	RESIDENTIAL	LKD	W10/F02	0.9	0.9	0	0.0%	YES	4.4	4.1	0.1	8.6%	YES	8	4	8	4	0.0%	0.0%	YES
	R9 (3)	RESIDENTIAL	LKD	W11/F02	1	1	0	0.0%	YES	2.9	2.9	0.0	0.0%	YES	0	0	0	0	0.0%	0.0%	YES
	R10	RESIDENTIAL	BEDROOM	W12/F02	5	4.4	0.6	12.0%	YES	11.3	11.3	0.0	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W13/F02	6.3	5	1.3	20.6%	NO	72.8	52.3	2.1	28.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W14/F02	10.3	7.5	2.8	27.2%	NO	47.2	44.7	0.3	5.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W15/F02	7.6	4.1	3.5	46.1%	NO	51	48.3	0.4	5.1%	YES	22	11	15	7	31.8%	36.4%	NO
			LKD	W16/F02	1.3	1.3	0	0.0%	YES												
F03	R1	RESIDENTIAL	LKD	W1/F03	25.5	24.2	1.3	5.1%	YES	85.5	85.2	0.1	0.3%	YES	53	15	51	15	3.8%	0.0%	YES
			LKD	W2/F03	9.1	8.1	1	11.0%	YES												
			LKD	W3/F03	13.5	12.2	1.3	9.6%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F03	8.6	7.4	1.2	14.0%	YES	22.7	21.4	0.1	5.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W5/F03	2.6	2.6	0	0.0%	YES	12.4	11.6	0.2	6.5%	YES	12	8	12	8	0.0%	0.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W6/F03	0.8	0.8	0	0.0%	YES	2.6	2.6	0.0	0.3%	YES	0	0	0	0	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F03	6.6	5.4	1.2	18.2%	YES	14.5	14	0.0	3.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F03	6.9	5.7	1.2	17.4%	YES	13.6	13.4	0.0	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F03	6.5	5.3	1.2	18.5%	YES	14	13.8	0.0	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8 (3)	RESIDENTIAL	LKD	W10/F03	1.1	1.1	0	0.0%	YES	5.9	5.2	0.2	11.1%	YES	10	6	10	6	0.0%	0.0%	YES
	R9 (3)	RESIDENTIAL	LKD	W11/F03	1.1	1.1	0	0.0%	YES	3	3	0.0	0.0%	YES	0	0	0	0	0.0%	0.0%	YES
	R10	RESIDENTIAL	BEDROOM	W12/F03	6.4	5.3	1.1	17.2%	YES	14.5	14.5	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W13/F03	7.7	5.8	1.9	24.7%	NO	73.6	52.9	2.1	28.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W14/F03	11.5	8.2	3.3	28.7%	NO	48	45.9	0.2	4.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W15/F03	7.9	4.4	3.5	44.3%	NO	50.9	48.3	0.4	5.1%	YES	23	11	15	7	34.8%	36.4%	NO
			LKD	W16/F03	3.6	3.6	0	0.0%	YES												
F04	R1	RESIDENTIAL	LKD	W1/F04	28.1	26	2.1	7.5%	YES	94.1	94	0.0	0.1%	YES	57	17	54	17	5.3%	0.0%	YES
			LKD	W2/F04	10.3	8.6	1.7	16.5%	YES												
			LKD	W3/F04	15.2	13	2.2	14.5%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F04	10.6	8.4	2.2	20.8%	NO	27.3	23.9	0.3	12.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W5/F04	2.9	2.9	0	0.0%	YES	14.6	13.3	0.3	9.2%	YES	14	9	14	9	0.0%	0.0%	YES
LUMIERE (CONTINUED)																					
	R4 (3)	RESIDENTIAL	LKD	W6/F04	0.9	0.9	0	0.0%	YES	3.5	2.9	0.2	15.8%	YES	0	0	0	0	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F04	8.9	6.6	2.3	25.8%	NO	21	20.5	0.1	2.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F04	9.2	7	2.2	23.9%	NO	19.6	19.3	0.0	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F04	8.8	6.6	2.2	25.0%	NO	19.7	19.5	0.0	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8 (3)	RESIDENTIAL	LKD	W10/F04	1.7	1.7	0	0.0%	YES	8.1	6.9	0.4	15.8%	YES	13	6	13	6	0.0%	0.0%	YES
	R9 (3)	RESIDENTIAL	LKD	W11/F04	1.1	1.1	0	0.0%	YES	3.3	3.3	0.0	0.0%	YES	0	0	0	0	0.0%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	CRITERIA
	R10	RESIDENTIAL	BEDROOM	W12/F04	8.6	6.6	2	23.3%	NO	20.8	20.7	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W13/F04	9.7	7	2.7	27.8%	NO	75.3	54.9	2.1	27.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W14/F04	13.2	9.1	4.1	31.1%	NO	48.9	47.1	0.2	3.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W15/F04	9	5	4	44.4%	NO	51.1	48.5	0.4	5.0%	YES	25	11	16	7	36.0%	36.4%	NO
			LKD	W16/F04	8.3	8.2	0.1	1.2%	YES												
F05	R1	RESIDENTIAL	LKD	W1/F05	30.7	27.6	3.1	10.1%	YES	95.4	95.2	0.1	0.1%	YES	65	21	59	21	9.2%	0.0%	YES
			LKD	W2/F05	12.2	9.2	3	24.6%	NO												
			LKD	W3/F05	18	14.1	3.9	21.7%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F05	14	10	4	28.6%	NO	38.1	30.1	0.8	21.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W5/F05	5.4	4.1	1.3	24.1%	NO	20.8	17.6	0.6	15.3%	YES	23	12	20	12	13.0%	0.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W6/F05	2.8	1.5	1.3	46.4%	NO	8.2	6.3	0.6	22.8%	NO	6	0	2	0	66.7%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F05	12.5	8.4	4.1	32.8%	NO	34.6	29.2	0.5	15.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F05	12.9	8.7	4.2	32.6%	NO	32.3	27.3	0.5	15.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F05	12.4	8.3	4.1	33.1%	NO	31.4	27.2	0.5	13.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8 (3)	RESIDENTIAL	LKD	W10/F05	4.3	3.1	1.2	27.9%	NO	12.7	9.9	0.9	21.7%	NO	20	8	18	8	10.0%	0.0%	YES
	R9 (3)	RESIDENTIAL	LKD	W11/F05	3	1.8	1.2	40.0%	NO	6.1	5.9	0.1	4.6%	YES	5	0	2	0	60.0%	0.0%	YES
	R10	RESIDENTIAL	BEDROOM	W12/F05	12	8.3	3.7	30.8%	NO	33.4	32.7	0.1	1.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W13/F05	13	8.8	4.2	32.3%	NO	79.2	61.2	1.9	22.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W14/F05	15.5	10.2	5.3	34.2%	NO	50.1	48.3	0.2	3.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W15/F05	10.9	6.1	4.8	44.0%	NO	84.1	82.6	0.2	1.7%	YES	28	13	18	9	35.7%	30.8%	NO
			LKD	W16/F05	14.6	14.6	0	0.0%	YES												
F06	R1	RESIDENTIAL	LKD	W1/F06	33.7	29.1	4.6	13.6%	YES	99.6	99.4	0.1	0.2%	YES	71	24	61	23	14.1%	4.2%	YES
			LKD	W2/F06	14.9	9.9	5	33.6%	NO												
			LKD	W3/F06	22.3	15.5	6.8	30.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F06	19.2	12.2	7	36.5%	NO	77.3	50.3	2.6	35.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LUMIERE (CONTINUED)																					
	R3 (3)	RESIDENTIAL	LKD	W5/F06	10.5	6.3	4.2	40.0%	NO	40.9	29.3	2.4	28.5%	NO	31	14	23	14	25.8%	0.0%	NO
	R4 (3)	RESIDENTIAL	LKD	W6/F06	7.2	2.9	4.3	59.7%	NO	36.6	24.7	3.5	32.6%	NO	14	2	4	2	71.4%	0.0%	NO
	R5	RESIDENTIAL	BEDROOM	W7/F06	18.1	10.7	7.4	40.9%	NO	73.6	39.9	3.2	45.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F06	18.3	10.9	7.4	40.4%	NO	69.9	36	3.5	48.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F06	17.8	10.4	7.4	41.6%	NO	66.3	39.6	3.1	40.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8 (3)	RESIDENTIAL	LKD	W10/F06	9.1	4.9	4.2	46.2%	NO	26.4	21.2	1.7	19.5%	YES	29	13	22	12	24.1%	7.7%	NO
	R9 (3)	RESIDENTIAL	LKD	W11/F06	6.8	2.7	4.1	60.3%	NO	34.9	31.6	1.1	9.6%	YES	11	2	3	1	72.7%	50.0%	NO
	R10	RESIDENTIAL	BEDROOM	W12/F06	16.9	10.5	6.4	37.9%	NO	69.4	62.8	0.8	9.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W13/F06	17.5	10.9	6.6	37.7%	NO	89.4	76	1.4	15.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R12	RESIDENTIAL	BEDROOM	W14/F06	18.8	11.8	7	37.2%	NO	50.7	48.9	0.2	3.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W15/F06	13.3	7.5	5.8	43.6%	NO	89.7	88.2	0.2	1.6%	YES	35	19	24	14	31.4%	26.3%	NO
			LKD	W16/F06	21.9	21.9	0	0.0%	YES												
F07	R1	RESIDENTIAL	LKD	W1/F07	36	30.2	5.8	16.1%	YES	100	99.7	0.1	0.2%	YES	74	26	63	25	14.9%	3.8%	YES
			LKD	W2/F07	17.9	10.7	7.2	40.2%	NO												
			LKD	W3/F07	27	17	10	37.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F07	25.5	14.9	10.6	41.6%	NO	99.7	59.6	3.8	40.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W5/F07	16.5	8.6	7.9	47.9%	NO	99.9	39.1	12.3	60.8%	NO	39	20	26	17	33.3%	15.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W6/F07	12.6	4.5	8.1	64.3%	NO	98.1	40.8	17.0	58.4%	NO	21	8	7	5	66.7%	37.5%	NO
	R5	RESIDENTIAL	BEDROOM	W7/F07	24.6	13.3	11.3	45.9%	NO	98.7	41.9	5.4	57.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F07	24.6	13.2	11.4	46.3%	NO	95.6	37.4	6.0	60.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F07	24	12.7	11.3	47.1%	NO	92.3	43.4	5.7	53.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8 (3)	RESIDENTIAL	LKD	W10/F07	14.9	6.9	8	53.7%	NO	73.7	58.2	5.1	21.0%	NO	37	20	26	16	29.7%	20.0%	YES
	R9 (3)	RESIDENTIAL	LKD	W11/F07	11.6	3.9	7.7	66.4%	NO	97.2	72.1	8.2	25.8%	NO	18	8	6	4	66.7%	50.0%	NO
	R10	RESIDENTIAL	BEDROOM	W12/F07	22.6	12.8	9.8	43.4%	NO	95.1	83.8	1.3	11.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W13/F07	22.6	13.1	9.5	42.0%	NO	97.1	89.9	0.7	7.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W14/F07	22.3	13.4	8.9	39.9%	NO	50.8	49.1	0.2	3.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W15/F07	22	13.2	8.8	40.0%	NO	89.8	88.4	0.2	1.6%	YES	50	22	32	15	36.0%	31.8%	YES
			LKD	W16/F07	28.8	28.7	0.1	0.3%	YES												
F08	R1	RESIDENTIAL	LKD	W1/F08	36.8	30.6	6.2	16.8%	YES	100	99.7	0.1	0.3%	YES	74	26	63	25	14.9%	3.8%	YES
			LKD	W2/F08	19.9	11.9	8	40.2%	NO												
			LKD	W3/F08	28.5	17.7	10.8	37.9%	NO												
LUMIERE (CONTINUED)																					
	R2	RESIDENTIAL	BEDROOM	W4/F08	27.9	16.3	11.6	41.6%	NO	99.7	60.1	3.8	39.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W5/F08	26.1	14.2	11.9	45.6%	NO	100	40.6	12.0	59.4%	NO	54	22	38	18	29.6%	18.2%	YES
	R4 (3)	RESIDENTIAL	LKD	W6/F08	22	9.8	12.2	55.5%	NO	99.4	44.8	16.2	54.9%	NO	36	10	18	5	50.0%	50.0%	NO
	R5	RESIDENTIAL	BEDROOM	W7/F08	26.8	14.4	12.4	46.3%	NO	98.7	42.5	5.3	56.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F08	26.5	14.1	12.4	46.8%	NO	95.7	37.9	6.0	60.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F08	26.1	13.7	12.4	47.5%	NO	92.5	46.4	5.4	49.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8 (3)	RESIDENTIAL	LKD	W10/F08	23.7	11.8	11.9	50.2%	NO	77.3	65	4.1	16.0%	YES	51	22	34	16	33.3%	27.3%	YES
	R9 (3)	RESIDENTIAL	LKD	W11/F08	20.2	8.7	11.5	56.9%	NO	99	75.3	7.8	24.0%	NO	33	10	15	4	54.5%	60.0%	NO
	R10	RESIDENTIAL	BEDROOM	W12/F08	24.6	13.8	10.8	43.9%	NO	95.2	84.2	1.3	11.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W13/F08	24.3	13.9	10.4	42.8%	NO	97.3	90.4	0.7	7.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F09	R1	RESIDENTIAL	UNKNOWN	W1/F09	29	19	10	34.5%	NO	100	100	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F09	28.9	18.5	10.4	36.0%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			UNKNOWN	W3/F09	28.7	18.1	10.6	36.9%	NO												
			UNKNOWN	W4/F09	28.6	17.7	10.9	38.1%	NO												
			UNKNOWN	W5/F09	28.4	17.3	11.1	39.1%	NO												
			UNKNOWN	W6/F09	28.3	16.9	11.4	40.3%	NO												
			UNKNOWN	W7/F09	28.1	16.5	11.6	41.3%	NO												
			UNKNOWN	W8/F09	27.8	16	11.8	42.4%	NO												
			UNKNOWN	W9/F09	27.7	15.7	12	43.3%	NO												
	R2	RESIDENTIAL	UNKNOWN	W10/F09	21.5	21.1	0.4	1.9%	YES	55.5	50.5	1.3	9.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W11/F09	20.2	9.5	10.7	53.0%	NO	99.7	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W12/F09	25.2	14.4	10.8	42.9%	NO												
			UNKNOWN	W13/F09	25.5	15.3	10.2	40.0%	NO												
			UNKNOWN	W14/F09	25	15.6	9.4	37.6%	NO												
			UNKNOWN	W15/F09	30.9	30.9	0	0.0%	YES												
F10	R1	RESIDENTIAL	UNKNOWN	W1/F10	18.9	13.2	5.7	30.2%	NO	100	87.6	1.3	12.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W8/F10	18.1	12.3	5.8	32.0%	NO												
	R2	RESIDENTIAL	UNKNOWN	W2/F10	27.5	16.4	11.1	40.4%	NO	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W3/F10	26.9	15.7	11.2	41.6%	NO												
			UNKNOWN	W4/F10	26.4	15.7	10.7	40.5%	NO												
			UNKNOWN	W5/F10	25.9	15.7	10.2	39.4%	NO												
LUMIERE (CONTINUED)																					
			UNKNOWN	W6/F10	25.3	15.8	9.5	37.5%	NO												
			UNKNOWN	W7/F10	31	31	0	0.0%	YES												
THE BOATMANS																					
F01	R3	RESIDENTIAL	LKD	W3/F01	7.9	0	7.9	100.0%	NO	74.7	8.9	20.2	88.1%	NO	21	6	0	0	100.0%	100.0%	NO
			LKD	W4/F01	10.2	0	10.2	100.0%	NO												
			LKD	W5/F01	13.4	0	13.4	100.0%	NO												
	R4	RESIDENTIAL	LKD	W6/F01	20.1	5.2	14.9	74.1%	NO	64.2	35.1	8.9	45.3%	NO	42	16	20	9	52.4%	43.8%	NO
			LKD	W7/F01	19.4	4.9	14.5	74.7%	NO												
			LKD	W8/F01	17.3	4.4	12.9	74.6%	NO												
F02	R3	RESIDENTIAL	LKD	W3/F02	8.2	0.1	8.1	98.8%	NO	74.6	8.6	20.3	88.5%	NO	21	6	0	0	100.0%	100.0%	NO
			LKD	W4/F02	10.5	0	10.5	100.0%	NO												
			LKD	W5/F02	13.9	0	13.9	100.0%	NO												
	R4	RESIDENTIAL	LKD	W6/F02	20.9	5.5	15.4	73.7%	NO	64.1	34.5	9.1	46.2%	NO	42	16	20	9	52.4%	43.8%	NO
			LKD	W7/F02	20.1	5	15.1	75.1%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W8/F02	18	4.5	13.5	75.0%	NO												
F03	R3	RESIDENTIAL	LKD	W3/F03	8.2	0.1	8.1	98.8%	NO	74.6	8.7	20.3	88.4%	NO	21	6	0	0	100.0%	100.0%	NO
			LKD	W4/F03	10.5	0	10.5	100.0%	NO												
			LKD	W5/F03	13.9	0	13.9	100.0%	NO												
	R4	RESIDENTIAL	LKD	W6/F03	21.1	5.7	15.4	73.0%	NO	64.1	34.4	9.1	46.4%	NO	44	16	22	9	50.0%	43.8%	NO
			LKD	W7/F03	20.1	5.1	15	74.6%	NO												
			LKD	W8/F03	17.9	4.5	13.4	74.9%	NO												
F04	R3	RESIDENTIAL	LKD	W3/F04	8.2	0.1	8.1	98.8%	NO	74.7	8.9	20.2	88.1%	NO	22	6	0	0	100.0%	100.0%	NO
			LKD	W4/F04	10.6	0	10.6	100.0%	NO												
			LKD	W5/F04	14.1	0.1	14	99.3%	NO												
	R4	RESIDENTIAL	LKD	W6/F04	21.4	6	15.4	72.0%	NO	64.1	34.6	9.0	46.0%	NO	46	17	24	10	47.8%	41.2%	NO
			LKD	W7/F04	20.4	5.3	15.1	74.0%	NO												
			LKD	W8/F04	18.1	4.7	13.4	74.0%	NO												
F05	R3	RESIDENTIAL	LKD	W3/F05	8.4	0.1	8.3	98.8%	NO	75.5	13.5	19.0	82.1%	NO	23	6	1	0	95.7%	100.0%	NO
			LKD	W4/F05	11	0	11	100.0%	NO												
			LKD	W5/F05	14.7	0.6	14.1	95.9%	NO												
THE BOATMANS (CONTINUED)																					
	R4	RESIDENTIAL	LKD	W6/F05	21.8	6.4	15.4	70.6%	NO	64.1	34.8	9.0	45.8%	NO	47	18	25	11	46.8%	38.9%	YES
			LKD	W7/F05	20.7	5.7	15	72.5%	NO												
			LKD	W8/F05	18.6	5.1	13.5	72.6%	NO												
F06	R1	RESIDENTIAL	LKD	W1/F06	27.8	15.1	12.7	45.7%	NO	99.9	87	3.0	12.9%	YES	58	22	42	19	27.6%	13.6%	YES
			LKD	W2/F06	25.2	13.9	11.3	44.8%	NO												
	R3	RESIDENTIAL	LKD	W4/F06	10.9	0.3	10.6	97.2%	NO	86	43.6	13.0	49.3%	NO	34	6	13	0	61.8%	100.0%	NO
			LKD	W5/F06	14.7	1.6	13.1	89.1%	NO												
			LKD	W6/F06	18.5	3.7	14.8	80.0%	NO												
	R4	RESIDENTIAL	LKD	W7/F06	22.6	6.9	15.7	69.5%	NO	64.2	35.2	8.9	45.2%	NO	48	22	26	15	45.8%	31.8%	YES
			LKD	W8/F06	22.5	6.8	15.7	69.8%	NO												
			LKD	W9/F06	21.5	6.6	14.9	69.3%	NO												
THE DANUBE																					
F00	R1	RESIDENTIAL	LKD	W1/F00	0.7	0.2	0.5	71.4%	NO	19.2	7.4	2.5	61.5%	NO	2	2	1	1	50.0%	50.0%	YES
F01	R1	RESIDENTIAL	LKD	W1/F01	4.8	3.3	1.5	31.2%	NO	15.2	8.9	1.4	41.4%	NO	11	5	5	3	54.5%	40.0%	NO
F02	R1	RESIDENTIAL	BEDROOM	W1/F02	15.2	10.1	5.1	33.6%	NO	62.9	62.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F02	4.6	2.3	2.3	50.0%	NO	48.8	44.5	0.3	8.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F02	9.3	3.8	5.5	59.1%	NO	75.2	60.5	3.1	19.6%	YES	32	12	18	7	43.8%	41.7%	NO

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W4/F02	9	5.2	3.8	42.2%	NO												
	R4	RESIDENTIAL	LKD	W5/F02	5.6	3.9	1.7	30.4%	NO	16	9.7	1.4	39.5%	NO	12	5	5	3	58.3%	40.0%	NO
F03	R1	RESIDENTIAL	BEDROOM	W1/F03	17.1	11.9	5.2	30.4%	NO	65.7	65.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F03	5	2.7	2.3	46.0%	NO	51.6	47.5	0.3	8.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F03	9.8	4.2	5.6	57.1%	NO	77.2	65.6	2.4	14.9%	YES	35	14	20	8	42.9%	42.9%	NO
			LKD	W4/F03	10.6	6.6	4	37.7%	NO												
	R4	RESIDENTIAL	LKD	W5/F03	6.8	5	1.8	26.5%	NO	17.5	11	1.4	36.9%	NO	12	5	5	3	58.3%	40.0%	NO
F04	R1	RESIDENTIAL	BEDROOM	W1/F04	19.5	14.2	5.3	27.2%	NO	68.9	68.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F04	6.1	3.7	2.4	39.3%	NO	52.7	50.7	0.1	3.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F04	10.4	4.7	5.7	54.8%	NO	79.6	73.2	1.4	8.0%	YES	37	15	23	10	37.8%	33.3%	NO
			LKD	W4/F04	12.7	8.5	4.2	33.1%	NO												
	R4	RESIDENTIAL	LKD	W5/F04	8.7	6.6	2.1	24.1%	NO	20	14.5	1.2	27.9%	NO	16	5	7	3	56.3%	40.0%	NO
F05	R1	RESIDENTIAL	BEDROOM	W1/F05	22.4	17	5.4	24.1%	NO	72.8	72.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
THE DANUBE (CONTINUED)																					
	R2	RESIDENTIAL	BEDROOM	W2/F05	7.6	4.9	2.7	35.5%	NO	54.5	53.1	0.1	2.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F05	11.2	5.2	6	53.6%	NO	87.4	81.4	1.3	6.8%	YES	41	17	27	12	34.1%	29.4%	YES
			LKD	W4/F05	15.7	11.3	4.4	28.0%	NO												
	R4	RESIDENTIAL	LKD	W5/F05	11.6	9.2	2.4	20.7%	NO	24.5	19.7	1.1	19.7%	YES	22	6	11	3	50.0%	50.0%	NO
F06	R1	RESIDENTIAL	BEDROOM	W1/F06	24.3	19.1	5.2	21.4%	NO	78.6	78.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F06	19.6	14.8	4.8	24.5%	NO	65.9	64.6	0.1	1.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F06	15.4	8.2	7.2	46.8%	NO	97.3	97.3	0.0	0.0%	YES	51	19	38	14	25.5%	26.3%	YES
			LKD	W4/F06	20.2	15.6	4.6	22.8%	NO												
	R4	RESIDENTIAL	LKD	W5/F06	15.9	13.2	2.7	17.0%	YES	29.5	27.7	0.4	6.2%	YES	34	6	22	3	35.3%	50.0%	NO
DEANSGATE SOUTH TOWER																					
F00	R1	RESIDENTIAL	LKD	W1/F00	8.3	8.3	0	0.0%	YES	99.4	96.6	1.1	2.8%	YES	54	22	29	12	46.3%	45.5%	YES
			LKD	W2/F00	8.3	8.3	0	0.0%	YES												
			LKD	W3/F00	28.1	10.7	17.4	61.9%	NO												
			LKD	W4/F00	28.7	11.5	17.2	59.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F00	29.3	13.2	16.1	54.9%	NO	93.1	67.7	2.6	27.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F00	29.5	13.6	15.9	53.9%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F00	29.8	14.2	15.6	52.3%	NO	95.1	45.6	4.7	52.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F00	30.2	14.9	15.3	50.7%	NO	86.9	38.4	5.4	55.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F00 / INC (2)	28.1	13.2	14.9	53.0%	NO	95.9	37.2	6.5	61.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F00 / INC (2)	28.7	13.9	14.8	51.6%	NO	76.1	41.2	3.6	45.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R7	RESIDENTIAL	BEDROOM	W11/F00 / INC (2)	29.2	14.9	14.3	49.0%	NO	99	72.9	2.7	26.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F00 / INC (2)	29.8	16.1	13.7	46.0%	NO	99.6	99.5	0.1	0.2%	YES	84	28	65	27	22.6%	3.6%	YES
			LKD	W13/F00 / INC (2)	30.3	17.3	13	42.9%	NO												
			LKD	W14/F00	36.3	30.1	6.2	17.1%	YES												
			LKD	W15/F00	36.1	29.7	6.4	17.7%	YES												
			LKD	W16/F00	36.1	29.4	6.7	18.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F00	35.8	28.5	7.3	20.4%	YES	1.9	1.9	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F00	35.7	28	7.7	21.6%	YES	1.6	1.6	0.0	0.0%	YES	72	27	60	26	16.7%	3.7%	YES
			LKD	W19/F00	35.6	27.5	8.1	22.8%	YES												
	R11 (3)	RESIDENTIAL	LKD	W20/F00	36.2	30.1	6.1	16.9%	YES	1.6	1.6	0.0	0.0%	YES	72	27	59	26	18.1%	3.7%	YES
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W21/F00	36.3	29.8	6.5	17.9%	YES												
	R12	RESIDENTIAL	BEDROOM	W22/F00	36.4	29.1	7.3	20.1%	YES	4.2	4.2	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W23/F00	36.5	27.7	8.8	24.1%	YES	3	3	0.0	0.0%	YES	75	26	57	24	24.0%	7.7%	YES
			LKD	W24/F00	36.5	26.8	9.7	26.6%	NO												
			LKD	W25/F00	36.5	25.8	10.7	29.3%	NO												
			LKD	W26/F00	0	0	0	-	YES												
			LKD	W27/F00	0	0	0	-	YES												
F01	R1	RESIDENTIAL	LKD	W1/F01	8.8	8.8	0	0.0%	YES	100	98.8	0.5	1.2%	YES	56	22	30	12	46.4%	45.5%	YES
			LKD	W2/F01	8.9	8.9	0	0.0%	YES												
			LKD	W3/F01	8.9	8.9	0	0.0%	YES												
			LKD	W4/F01	28.4	10.9	17.5	61.6%	NO												
			LKD	W5/F01	29.1	11.8	17.3	59.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F01	29.7	13.7	16	53.9%	NO	99.2	59.9	4.0	39.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F01	30.1	14.3	15.8	52.5%	NO	88	41.7	4.4	52.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F01	30.4	14.8	15.6	51.3%	NO	93.4	34.7	6.6	62.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F01 / INC (2)	28.4	13.4	15	52.8%	NO	84	35.8	5.4	57.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F01 / INC (2)	29	14	15	51.7%	NO	88.2	38.9	5.1	55.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F01 / INC (2)	29.5	14.9	14.6	49.5%	NO	99.6	81.7	1.8	17.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F01 / INC (2)	29.7	15.3	14.4	48.5%	NO												
	R8	RESIDENTIAL	LKD	W13/F01 / INC (2)	30.2	16.4	13.8	45.7%	NO	100	99.8	0.1	0.2%	YES	85	28	65	27	23.5%	3.6%	YES
			LKD	W14/F01 / INC (2)	30.8	17.7	13.1	42.5%	NO												
			LKD	W15/F01	36.9	30.6	6.3	17.1%	YES												
			LKD	W16/F01	36.8	30.3	6.5	17.7%	YES												
			LKD	W17/F01	36.7	30	6.7	18.3%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R9	RESIDENTIAL	BEDROOM	W18/F01	36.5	29	7.5	20.5%	YES	98.3	85.9	1.5	12.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F01	36.3	28.5	7.8	21.5%	YES	98.6	98.6	0.0	0.0%	YES	73	27	60	26	17.8%	3.7%	YES
			LKD	W20/F01	36.2	28	8.2	22.7%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F01	36.9	30.7	6.2	16.8%	YES	97.2	97.2	0.0	0.0%	YES	72	27	59	26	18.1%	3.7%	YES
			LKD	W22/F01	37	30.4	6.6	17.8%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F01	37.1	29.6	7.5	20.2%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F01	37.2	28.2	9	24.2%	YES	99.6	98.3	0.5	1.3%	YES	75	26	58	24	22.7%	7.7%	YES
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W25/F01	37.2	27.3	9.9	26.6%	YES												
			LKD	W26/F01	37.2	26.2	11	29.6%	NO												
			LKD	W27/F01	18.3	11.7	6.6	36.1%	NO												
			LKD	W28/F01	17.5	11.9	5.6	32.0%	NO												
F02	R1	RESIDENTIAL	LKD	W1/F02	9.3	9.3	0	0.0%	YES	100	98.9	0.4	1.1%	YES	56	22	30	12	46.4%	45.5%	YES
			LKD	W2/F02	9.3	9.3	0	0.0%	YES												
			LKD	W3/F02	9.4	9.4	0	0.0%	YES												
			LKD	W4/F02	28.6	11	17.6	61.5%	NO												
			LKD	W5/F02	29.3	12	17.3	59.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F02	30	13.8	16.2	54.0%	NO	99.2	60.2	4.0	39.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F02	30.4	14.5	15.9	52.3%	NO	88.1	42	4.4	52.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F02	30.6	15	15.6	51.0%	NO	93.6	34.9	6.5	62.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F02 / INC (2)	28.7	13.6	15.1	52.6%	NO	84.3	36.1	5.4	57.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F02 / INC (2)	29.2	14.2	15	51.4%	NO	88.5	39.4	5.1	55.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F02 / INC (2)	29.8	15	14.8	49.7%	NO	99.7	82.3	1.8	17.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F02 / INC (2)	30	15.5	14.5	48.3%	NO												
	R8	RESIDENTIAL	LKD	W13/F02 / INC (2)	30.5	16.6	13.9	45.6%	NO	100	99.8	0.1	0.2%	YES	86	28	65	27	24.4%	3.6%	YES
			LKD	W14/F02 / INC (2)	31.1	17.8	13.3	42.8%	NO												
			LKD	W15/F02	37.2	30.8	6.4	17.2%	YES												
			LKD	W16/F02	37.1	30.4	6.7	18.1%	YES												
			LKD	W17/F02	37	30.1	6.9	18.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F02	36.8	29.1	7.7	20.9%	YES	98.3	86.1	1.5	12.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F02	36.6	28.7	7.9	21.6%	YES	98.6	98.6	0.0	0.0%	YES	73	27	60	26	17.8%	3.7%	YES
			LKD	W20/F02	36.5	28.2	8.3	22.7%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F02	37.1	30.8	6.3	17.0%	YES	97.2	97.2	0.0	0.0%	YES	73	27	59	26	19.2%	3.7%	YES
			LKD	W22/F02	37.2	30.5	6.7	18.0%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F02	37.3	29.7	7.6	20.4%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R13	RESIDENTIAL	LKD	W24/F02	37.4	28.3	9.1	24.3%	YES	99.7	99.2	0.2	0.5%	YES	75	26	58	24	22.7%	7.7%	YES
			LKD	W25/F02	37.4	27.4	10	26.7%	YES												
			LKD	W26/F02	37.4	26.3	11.1	29.7%	NO												
			LKD	W27/F02	18.7	11.9	6.8	36.4%	NO												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W28/F02	17.8	12.2	5.6	31.5%	NO												
F03	R1	RESIDENTIAL	LKD	W1/F03	9.6	9.6	0	0.0%	YES	100	99	0.4	1.0%	YES	56	22	30	12	46.4%	45.5%	YES
			LKD	W2/F03	9.7	9.7	0	0.0%	YES												
			LKD	W3/F03	9.7	9.7	0	0.0%	YES												
			LKD	W4/F03	28.8	11.2	17.6	61.1%	NO												
			LKD	W5/F03	29.5	12.1	17.4	59.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F03	30.2	13.9	16.3	54.0%	NO	99.2	60.6	4.0	38.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F03	30.6	14.6	16	52.3%	NO	88.2	42.7	4.3	51.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F03	30.8	15.1	15.7	51.0%	NO	94.2	35.1	6.6	62.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F03 / INC (2)	28.9	13.8	15.1	52.2%	NO	85.1	36.8	5.4	56.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F03 / INC (2)	29.5	14.3	15.2	51.5%	NO	88.8	40.4	5.0	54.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F03 / INC (2)	30	15.2	14.8	49.3%	NO	99.7	83	1.7	16.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F03 / INC (2)	30.3	15.7	14.6	48.2%	NO												
	R8	RESIDENTIAL	LKD	W13/F03 / INC (2)	30.8	16.7	14.1	45.8%	NO	100	99.8	0.1	0.2%	YES	87	28	66	27	24.1%	3.6%	YES
			LKD	W14/F03 / INC (2)	31.3	18	13.3	42.5%	NO												
			LKD	W15/F03	37.4	30.9	6.5	17.4%	YES												
			LKD	W16/F03	37.3	30.5	6.8	18.2%	YES												
			LKD	W17/F03	37.2	30.2	7	18.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F03	37	29.2	7.8	21.1%	YES	98.3	86.2	1.4	12.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F03	36.9	28.8	8.1	22.0%	YES	98.6	98.6	0.0	0.0%	YES	74	27	60	26	18.9%	3.7%	YES
			LKD	W20/F03	36.8	28.2	8.6	23.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F03	37.3	30.8	6.5	17.4%	YES	97.2	97.2	0.0	0.0%	YES	74	27	59	26	20.3%	3.7%	YES
			LKD	W22/F03	37.4	30.5	6.9	18.4%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F03	37.5	29.7	7.8	20.8%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F03	37.6	28.3	9.3	24.7%	YES	99.8	99.7	0.0	0.0%	YES	76	27	58	24	23.7%	11.1%	YES
			LKD	W25/F03	37.7	27.5	10.2	27.1%	YES												
			LKD	W26/F03	37.7	26.3	11.4	30.2%	NO												
			LKD	W27/F03	19.1	12.2	6.9	36.1%	NO												
			LKD	W28/F03	18.2	12.4	5.8	31.9%	NO												
F04	R1	RESIDENTIAL	LKD	W1/F04	10	10	0	0.0%	YES	100	99	0.4	1.0%	YES	56	22	30	12	46.4%	45.5%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W2/F04	10	10	0	0.0%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W3/F04	10	10	0	0.0%	YES												
			LKD	W4/F04	29	11.3	17.7	61.0%	NO												
			LKD	W5/F04	29.7	12.2	17.5	58.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F04	30.4	14.1	16.3	53.6%	NO	99.2	60.7	3.9	38.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F04	30.8	14.7	16.1	52.3%	NO	88.5	43.1	4.3	51.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F04	31	15.3	15.7	50.6%	NO	94.4	35.4	6.6	62.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F04 / INC (2)	29.2	13.9	15.3	52.4%	NO	86.1	37.8	5.4	56.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F04 / INC (2)	29.8	14.5	15.3	51.3%	NO	89.1	41.1	5.0	53.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F04 / INC (2)	30.3	15.4	14.9	49.2%	NO	99.7	83.3	1.7	16.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F04 / INC (2)	30.5	15.8	14.7	48.2%	NO												
	R8	RESIDENTIAL	LKD	W13/F04 / INC (2)	31	16.9	14.1	45.5%	NO	100	99.8	0.1	0.2%	YES	87	28	66	27	24.1%	3.6%	YES
			LKD	W14/F04 / INC (2)	31.6	18.2	13.4	42.4%	NO												
			LKD	W15/F04	37.6	31	6.6	17.6%	YES												
			LKD	W16/F04	37.5	30.6	6.9	18.4%	YES												
			LKD	W17/F04	37.4	30.3	7.1	19.0%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F04	37.2	29.3	7.9	21.2%	YES	98.3	86.3	1.4	12.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F04	37.1	28.8	8.3	22.4%	YES	98.6	98.6	0.0	0.0%	YES	75	27	62	26	17.3%	3.7%	YES
			LKD	W20/F04	37	28.3	8.7	23.5%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F04	37.4	30.9	6.5	17.4%	YES	97.2	97.2	0.0	0.0%	YES	75	27	60	26	20.0%	3.7%	YES
			LKD	W22/F04	37.6	30.6	7	18.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F04	37.7	29.8	7.9	21.0%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F04	37.8	28.3	9.5	25.1%	YES	99.8	99.8	0.0	0.0%	YES	79	28	60	24	24.1%	14.3%	YES
			LKD	W25/F04	37.8	27.5	10.3	27.2%	YES												
			LKD	W26/F04	37.8	26.4	11.4	30.2%	NO												
			LKD	W27/F04	19.4	12.4	7	36.1%	NO												
			LKD	W28/F04	18.5	12.6	5.9	31.9%	NO												
F05	R1	RESIDENTIAL	LKD	W1/F05	10.3	10.3	0	0.0%	YES	100	99	0.4	1.0%	YES	57	22	31	12	45.6%	45.5%	YES
			LKD	W2/F05	10.3	10.3	0	0.0%	YES												
			LKD	W3/F05	10.4	10.4	0	0.0%	YES												
			LKD	W4/F05	29.1	11.4	17.7	60.8%	NO												
			LKD	W5/F05	29.9	12.4	17.5	58.5%	NO												
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R2	RESIDENTIAL	BEDROOM	W6/F05	30.5	14.2	16.3	53.4%	NO	99.2	61.4	3.9	38.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R3	RESIDENTIAL	BEDROOM	W7/F05	31	14.9	16.1	51.9%	NO	88.7	43.5	4.3	50.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F05	31.2	15.4	15.8	50.6%	NO	94.5	35.7	6.6	62.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F05 / INC (2)	29.4	14.1	15.3	52.0%	NO	86.4	38.1	5.4	55.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F05 / INC (2)	30	14.7	15.3	51.0%	NO	89.5	41.9	4.9	53.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F05 / INC (2)	30.5	15.6	14.9	48.9%	NO	99.7	83.6	1.7	16.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F05 / INC (2)	30.8	16	14.8	48.1%	NO												
	R8	RESIDENTIAL	LKD	W13/F05 / INC (2)	31.3	17.1	14.2	45.4%	NO	100	99.8	0.1	0.2%	YES	87	28	66	27	24.1%	3.6%	YES
			LKD	W14/F05 / INC (2)	31.8	18.3	13.5	42.5%	NO												
			LKD	W15/F05	37.8	31	6.8	18.0%	YES												
			LKD	W16/F05	37.7	30.7	7	18.6%	YES												
			LKD	W17/F05	37.6	30.4	7.2	19.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F05	37.4	29.4	8	21.4%	YES	98.3	86.5	1.4	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F05	37.3	28.9	8.4	22.5%	YES	98.6	98.6	0.0	0.0%	YES	75	27	62	26	17.3%	3.7%	YES
			LKD	W20/F05	37.2	28.3	8.9	23.9%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F05	37.6	30.9	6.7	17.8%	YES	97.2	97.2	0.0	0.0%	YES	75	27	60	26	20.0%	3.7%	YES
			LKD	W22/F05	37.7	30.6	7.1	18.8%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F05	37.8	29.8	8	21.2%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F05	38	28.4	9.6	25.3%	YES	99.8	99.8	0.0	0.0%	YES	80	28	61	24	23.8%	14.3%	YES
			LKD	W25/F05	38	27.5	10.5	27.6%	YES												
			LKD	W26/F05	38	26.4	11.6	30.5%	NO												
			LKD	W27/F05	19.7	12.5	7.2	36.5%	NO												
			LKD	W28/F05	18.8	12.8	6	31.9%	NO												
F06	R1	RESIDENTIAL	LKD	W1/F06	10.7	10.7	0	0.0%	YES	100	99	0.4	1.0%	YES	57	22	32	12	43.9%	45.5%	YES
			LKD	W2/F06	10.7	10.7	0	0.0%	YES												
			LKD	W3/F06	29.3	11.6	17.7	60.4%	NO												
			LKD	W4/F06	30	12.5	17.5	58.3%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F06	30.7	14.2	16.5	53.7%	NO	99.6	75.2	2.5	24.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F06	30.9	14.6	16.3	52.8%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F06	31.3	15.2	16.1	51.4%	NO	96.1	47	4.6	51.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F06	31.7	15.9	15.8	49.8%	NO	98.8	43.6	6.2	55.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R5	RESIDENTIAL	BEDROOM	W9/F06 / INC (2)	29.8	14.4	15.4	51.7%	NO	97.1	38	6.6	60.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F06 / INC (2)	30.4	15.1	15.3	50.3%	NO	89	46.5	4.4	47.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F06 / INC (2)	31	16.1	14.9	48.1%	NO	99.4	73.3	2.7	26.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F06 / INC (2)	31.6	17.2	14.4	45.6%	NO	100	99.8	0.1	0.2%	YES	88	28	66	27	25.0%	3.6%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W13/F06 / INC (2)	32.1	18.5	13.6	42.4%	NO												
			LKD	W14/F06	37.9	31.1	6.8	17.9%	YES												
			LKD	W15/F06	37.8	30.8	7	18.5%	YES												
			LKD	W16/F06	37.8	30.5	7.3	19.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F06	37.6	29.6	8	21.3%	YES	97	90.9	0.7	6.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F06	37.4	28.8	8.6	23.0%	YES	97.6	97.6	0.0	0.0%	YES	75	27	60	26	20.0%	3.7%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F06	37.7	30.9	6.8	18.0%	YES	94.8	94.8	0.0	0.0%	YES	75	27	60	26	20.0%	3.7%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F06	37.9	29.8	8.1	21.4%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F06	38.1	28.4	9.7	25.5%	YES	99.8	99.8	0.0	0.0%	YES	80	28	61	24	23.8%	14.3%	YES
			LKD	W22/F06	38.1	27.5	10.6	27.8%	YES												
			LKD	W23/F06	38.2	26.4	11.8	30.9%	NO												
			LKD	W24/F06	20	12.7	7.3	36.5%	NO												
			LKD	W25/F06	19.1	13	6.1	31.9%	NO												
F07	R1	RESIDENTIAL	LKD	W1/F07	11	11	0	0.0%	YES	100	99	0.4	0.9%	YES	57	22	32	12	43.9%	45.5%	YES
			LKD	W2/F07	11	11	0	0.0%	YES												
			LKD	W3/F07	11.1	11.1	0	0.0%	YES												
			LKD	W4/F07	29.5	11.7	17.8	60.3%	NO												
			LKD	W5/F07	30.2	12.7	17.5	57.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F07	30.9	14.5	16.4	53.1%	NO	99.2	61.8	3.8	37.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F07	31.4	15.2	16.2	51.6%	NO	89.9	44.9	4.3	50.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F07	31.6	15.7	15.9	50.3%	NO	95.1	36.6	6.5	61.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F07 / INC (2)	30	14.5	15.5	51.7%	NO	87.6	39.4	5.4	55.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F07 / INC (2)	30.6	15.1	15.5	50.7%	NO	91.2	44.6	4.8	51.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F07 / INC (2)	31.1	15.9	15.2	48.9%	NO	99.7	84.5	1.6	15.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F07 / INC (2)	31.3	16.4	14.9	47.6%	NO												
	R8	RESIDENTIAL	LKD	W13/F07 / INC (2)	31.8	17.4	14.4	45.3%	NO	100	99.8	0.1	0.2%	YES	88	28	66	27	25.0%	3.6%	YES
			LKD	W14/F07 / INC (2)	32.3	18.7	13.6	42.1%	NO												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W15/F07	38.1	31.2	6.9	18.1%	YES												
			LKD	W16/F07	38	30.8	7.2	18.9%	YES												
			LKD	W17/F07	37.9	30.5	7.4	19.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F07 / INC (2)	37.7	29.5	8.2	21.8%	YES	98.1	86	1.4	12.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F07 / INC (2)	37.6	29	8.6	22.9%	YES	98.4	98.3	0.0	0.0%	YES	76	27	62	26	18.4%	3.7%	YES
			LKD	W20/F07 / INC (2)	37.5	28.4	9.1	24.3%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F07	37.8	30.9	6.9	18.3%	YES	97.4	97.4	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W22/F07	37.9	30.6	7.3	19.3%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F07	38	29.8	8.2	21.6%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F07	38.2	28.4	9.8	25.7%	YES	99.8	99.8	0.0	0.0%	YES	80	28	62	24	22.5%	14.3%	YES
			LKD	W25/F07	38.2	27.6	10.6	27.7%	YES												
			LKD	W26/F07	38.3	26.4	11.9	31.1%	NO												
			LKD	W27/F07	20.2	12.9	7.3	36.1%	NO												
			LKD	W28/F07	19.3	13.2	6.1	31.6%	NO												
F08	R1	RESIDENTIAL	LKD	W1/F08	11.4	11.4	0	0.0%	YES	100	99	0.4	1.0%	YES	58	22	33	12	43.1%	45.5%	YES
			LKD	W2/F08	11.4	11.4	0	0.0%	YES												
			LKD	W3/F08	29.7	11.9	17.8	59.9%	NO												
			LKD	W4/F08	30.4	12.8	17.6	57.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F08	31	14.5	16.5	53.2%	NO	99.6	75.8	2.4	23.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F08	31.3	14.9	16.4	52.4%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F08	31.7	15.5	16.2	51.1%	NO	96.5	47.6	4.6	50.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F08	32.1	16.2	15.9	49.5%	NO	98.8	44	6.1	55.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F08 / INC (2)	30.4	14.8	15.6	51.3%	NO	97.4	38.2	6.6	60.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F08 / INC (2)	31	15.5	15.5	50.0%	NO	89.4	47	4.4	47.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F08 / INC (2)	31.6	16.5	15.1	47.8%	NO	99.4	73.4	2.7	26.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F08 / INC (2)	32.1	17.6	14.5	45.2%	NO	100	99.8	0.1	0.2%	YES	88	28	66	27	25.0%	3.6%	YES
			LKD	W13/F08 / INC (2)	32.6	18.9	13.7	42.0%	NO												
			LKD	W14/F08	38.2	31.3	6.9	18.1%	YES												
			LKD	W15/F08	38.1	30.9	7.2	18.9%	YES												
			LKD	W16/F08	38	30.6	7.4	19.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F08	37.9	29.8	8.1	21.4%	YES	97	90.9	0.7	6.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R10	RESIDENTIAL	LKD	W18/F08	37.7	28.9	8.8	23.3%	YES	97.6	97.6	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F08	37.9	30.9	7	18.5%	YES	94.8	94.8	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F08	38.1	29.8	8.3	21.8%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F08	38.3	28.4	9.9	25.8%	YES	99.8	99.8	0.0	0.0%	YES	81	28	63	24	22.2%	14.3%	YES
			LKD	W22/F08	38.3	27.6	10.7	27.9%	YES												
			LKD	W23/F08	38.4	26.5	11.9	31.0%	NO												
			LKD	W24/F08	20.4	13	7.4	36.3%	NO												
			LKD	W25/F08	19.5	13.3	6.2	31.8%	NO												
F09	R1	RESIDENTIAL	LKD	W1/F09	11.8	11.8	0	0.0%	YES	100	99.1	0.4	0.9%	YES	60	22	35	12	41.7%	45.5%	YES
			LKD	W2/F09	11.8	11.8	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W3/F09	11.8	11.8	0	0.0%	YES												
			LKD	W4/F09	29.8	12.2	17.6	59.1%	NO												
			LKD	W5/F09	30.6	13	17.6	57.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F09	31.3	14.9	16.4	52.4%	NO	99.2	62.2	3.8	37.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F09	31.8	15.5	16.3	51.3%	NO	90.9	45.9	4.3	49.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F09	32	16	16	50.0%	NO	96.2	36.5	6.7	62.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F09 / INC (2)	30.5	15	15.5	50.8%	NO	89.7	40.4	5.5	55.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F09 / INC (2)	31.1	15.6	15.5	49.8%	NO	91.9	46.2	4.7	49.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F09 / INC (2)	31.6	16.4	15.2	48.1%	NO	99.7	84.9	1.5	14.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F09 / INC (2)	31.9	16.8	15.1	47.3%	NO												
	R8	RESIDENTIAL	LKD	W13/F09 / INC (2)	32.4	17.8	14.6	45.1%	NO	100	99.8	0.1	0.2%	YES	90	28	67	27	25.6%	3.6%	YES
			LKD	W14/F09 / INC (2)	32.8	19	13.8	42.1%	NO												
			LKD	W15/F09	38.3	31.3	7	18.3%	YES												
			LKD	W16/F09	38.2	31	7.2	18.8%	YES												
			LKD	W17/F09	38.1	30.7	7.4	19.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F09 / INC (2)	37.9	29.6	8.3	21.9%	YES	98.1	86	1.4	12.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F09 / INC (2)	37.9	29.1	8.8	23.2%	YES	98.4	98.3	0.0	0.0%	YES	76	27	62	26	18.4%	3.7%	YES
			LKD	W20/F09 / INC (2)	37.7	28.5	9.2	24.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F09	37.9	31	6.9	18.2%	YES	97.4	97.4	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
			LKD	W22/F09	38.1	30.7	7.4	19.4%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F09	38.2	29.9	8.3	21.7%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R13	RESIDENTIAL	LKD	W24/F09	38.4	28.5	9.9	25.8%	YES	99.8	99.8	0.0	0.0%	YES	81	28	63	24	22.2%	14.3%	YES
			LKD	W25/F09	38.4	27.6	10.8	28.1%	YES												
			LKD	W26/F09	38.4	26.5	11.9	31.0%	NO												
			LKD	W27/F09	20.6	13.2	7.4	35.9%	NO												
			LKD	W28/F09	19.7	13.5	6.2	31.5%	NO												
F10	R1	RESIDENTIAL	LKD	W1/F10	12.2	12.2	0	0.0%	YES	100	99.1	0.4	0.9%	YES	60	22	35	12	41.7%	45.5%	YES
			LKD	W2/F10	12.2	12.2	0	0.0%	YES												
			LKD	W3/F10	30	12.4	17.6	58.7%	NO												
			LKD	W4/F10	30.8	13.3	17.5	56.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F10	31.5	14.9	16.6	52.7%	NO	99.6	76.8	2.3	23.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F10	31.7	15.3	16.4	51.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F10	32.1	15.9	16.2	50.5%	NO	96.6	47.3	4.7	51.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F10	32.5	16.6	15.9	48.9%	NO	98.8	43.9	6.1	55.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R5	RESIDENTIAL	BEDROOM	W9/F10 / INC (2)	31	15.3	15.7	50.6%	NO	97.8	38.1	6.7	61.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F10 / INC (2)	31.6	16	15.6	49.4%	NO	90.1	47.1	4.4	47.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F10 / INC (2)	32.1	16.9	15.2	47.4%	NO	99.4	73.4	2.7	26.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F10 / INC (2)	32.6	18	14.6	44.8%	NO	100	99.8	0.1	0.2%	YES	90	28	67	27	25.6%	3.6%	YES
			LKD	W13/F10 / INC (2)	33.1	19.2	13.9	42.0%	NO												
			LKD	W14/F10	38.4	31.4	7	18.2%	YES												
			LKD	W15/F10	38.3	31	7.3	19.1%	YES												
			LKD	W16/F10	38.2	30.7	7.5	19.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F10	38.1	29.9	8.2	21.5%	YES	97	90.9	0.7	6.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F10	37.9	29	8.9	23.5%	YES	97.6	97.6	0.0	0.0%	YES	76	27	61	26	19.7%	3.7%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F10	38	31	7	18.4%	YES	94.8	94.8	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F10	38.2	29.9	8.3	21.7%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F10	38.4	28.5	9.9	25.8%	YES	99.9	99.9	0.0	0.0%	YES	82	29	62	24	24.4%	17.2%	YES
			LKD	W22/F10	38.5	27.7	10.8	28.1%	YES												
			LKD	W23/F10	38.5	26.6	11.9	30.9%	NO												
			LKD	W24/F10	20.8	13.4	7.4	35.6%	NO												
			LKD	W25/F10	19.9	13.6	6.3	31.7%	NO												
F11	R1	RESIDENTIAL	LKD	W1/F11	12.6	12.6	0	0.0%	YES	100	99.1	0.4	0.9%	YES	60	22	35	12	41.7%	45.5%	YES
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W2/F11	12.6	12.6	0	0.0%	YES												
			LKD	W3/F11	12.6	12.6	0	0.0%	YES												
			LKD	W4/F11	30.3	12.7	17.6	58.1%	NO												
			LKD	W5/F11	31	13.5	17.5	56.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F11	31.8	15.3	16.5	51.9%	NO	99.2	63.4	3.7	36.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F11	32.3	15.9	16.4	50.8%	NO	92.7	46.5	4.4	49.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F11	32.5	16.4	16.1	49.5%	NO	96.6	36.8	6.7	61.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F11 / INC (2)	31.2	15.5	15.7	50.3%	NO	90.3	40.8	5.5	54.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F11 / INC (2)	31.7	16.1	15.6	49.2%	NO	92.7	46.4	4.8	49.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F11 / INC (2)	32.2	16.8	15.4	47.8%	NO	99.7	85.3	1.5	14.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F11 / INC (2)	32.5	17.3	15.2	46.8%	NO												
	R8	RESIDENTIAL	LKD	W13/F11 / INC (2)	32.9	18.3	14.6	44.4%	NO	100	99.8	0.1	0.2%	YES	92	28	68	27	26.1%	3.6%	YES
			LKD	W14/F11 / INC (2)	33.4	19.4	14	41.9%	NO												
			LKD	W15/F11	38.4	31.5	6.9	18.0%	YES												
			LKD	W16/F11	38.4	31.1	7.3	19.0%	YES												
			LKD	W17/F11	38.3	30.8	7.5	19.6%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R9	RESIDENTIAL	BEDROOM	W18/F11 / INC (2)	38.1	29.7	8.4	22.0%	YES	98.1	86	1.4	12.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F11 / INC (2)	38	29.2	8.8	23.2%	YES	98.4	98.3	0.0	0.0%	YES	76	27	63	27	17.1%	0.0%	YES
			LKD	W20/F11 / INC (2)	37.9	28.6	9.3	24.5%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F11	38	31	7	18.4%	YES	97.4	97.4	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
			LKD	W22/F11	38.2	30.7	7.5	19.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F11	38.3	29.9	8.4	21.9%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F11	38.5	28.5	10	26.0%	YES	99.9	99.9	0.0	0.0%	YES	82	29	61	24	25.6%	17.2%	YES
			LKD	W25/F11	38.5	27.7	10.8	28.1%	YES												
			LKD	W26/F11	38.6	26.6	12	31.1%	NO												
			LKD	W27/F11	21	13.5	7.5	35.7%	NO												
			LKD	W28/F11	20	13.8	6.2	31.0%	NO												
F12	R1	RESIDENTIAL	LKD	W1/F12	13.1	13.1	0	0.0%	YES	100	99.1	0.4	0.9%	YES	60	22	34	12	43.3%	45.5%	YES
			LKD	W2/F12	13.1	13.1	0	0.0%	YES												
			LKD	W3/F12	30.5	12.9	17.6	57.7%	NO												
			LKD	W4/F12	31.3	13.8	17.5	55.9%	NO												
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R2	RESIDENTIAL	BEDROOM	W5/F12	32	15.3	16.7	52.2%	NO	99.6	77.1	2.3	22.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F12	32.2	15.7	16.5	51.2%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F12	32.6	16.3	16.3	50.0%	NO	97	47.5	4.7	51.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F12	33	17	16	48.5%	NO	98.8	43.9	6.1	55.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F12 / INC (2)	31.6	15.9	15.7	49.7%	NO	97.9	38.1	6.7	61.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F12 / INC (2)	32.2	16.5	15.7	48.8%	NO	90.8	47	4.5	48.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F12 / INC (2)	32.7	17.4	15.3	46.8%	NO	99.4	73.4	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F12 / INC (2)	33.2	18.5	14.7	44.3%	NO	100	99.8	0.1	0.2%	YES	92	28	68	27	26.1%	3.6%	YES
			LKD	W13/F12 / INC (2)	33.7	19.7	14	41.5%	NO												
			LKD	W14/F12	38.5	31.5	7	18.2%	YES												
			LKD	W15/F12	38.4	31.1	7.3	19.0%	YES												
			LKD	W16/F12	38.4	30.8	7.6	19.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F12	38.2	30	8.2	21.5%	YES	97	90.9	0.7	6.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F12	38.1	29.1	9	23.6%	YES	97.6	97.6	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F12	38.1	31	7.1	18.6%	YES	94.8	94.8	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F12	38.4	30	8.4	21.9%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F12	38.5	28.6	9.9	25.7%	YES	99.9	99.9	0.0	0.0%	YES	82	29	61	24	25.6%	17.2%	YES
			LKD	W22/F12	38.6	27.7	10.9	28.2%	YES												
			LKD	W23/F12	38.6	26.6	12	31.1%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W24/F12	21.2	13.7	7.5	35.4%	NO												
			LKD	W25/F12	20.2	13.9	6.3	31.2%	NO												
F13	R1	RESIDENTIAL	LKD	W1/F13	13.6	13.6	0	0.0%	YES	100	99.1	0.3	0.9%	YES	60	22	34	12	43.3%	45.5%	YES
			LKD	W2/F13	13.6	13.6	0	0.0%	YES												
			LKD	W3/F13	13.6	13.6	0	0.0%	YES												
			LKD	W4/F13	30.8	13.2	17.6	57.1%	NO												
			LKD	W5/F13	31.5	14	17.5	55.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F13	32.3	15.8	16.5	51.1%	NO	99.2	63.9	3.6	35.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F13	32.8	16.4	16.4	50.0%	NO	93.1	47.6	4.3	48.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F13	33	16.9	16.1	48.8%	NO	97.5	37.4	6.7	61.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F13 / INC (2)	31.9	16.1	15.8	49.5%	NO	91	41.2	5.6	54.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F13 / INC (2)	32.4	16.6	15.8	48.8%	NO	93.6	47.2	4.8	49.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R7	RESIDENTIAL	BEDROOM	W11/F13 / INC (2)	32.8	17.3	15.5	47.3%	NO	99.7	85.4	1.5	14.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F13 / INC (2)	33.1	17.8	15.3	46.2%	NO												
	R8	RESIDENTIAL	LKD	W13/F13 / INC (2)	33.5	18.7	14.8	44.2%	NO	100	99.8	0.1	0.2%	YES	93	28	69	27	25.8%	3.6%	YES
			LKD	W14/F13 / INC (2)	33.9	19.9	14	41.3%	NO												
			LKD	W15/F13	38.6	31.6	7	18.1%	YES												
			LKD	W16/F13	38.5	31.2	7.3	19.0%	YES												
			LKD	W17/F13	38.5	30.9	7.6	19.7%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F13 / INC (2)	38.3	29.8	8.5	22.2%	YES	98.1	86	1.4	12.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F13 / INC (2)	38.2	29.3	8.9	23.3%	YES	98.4	98.3	0.0	0.0%	YES	76	27	61	26	19.7%	3.7%	YES
			LKD	W20/F13 / INC (2)	38.1	28.7	9.4	24.7%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F13	38.1	31.1	7	18.4%	YES	97.4	97.4	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
			LKD	W22/F13	38.3	30.8	7.5	19.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F13	38.4	30	8.4	21.9%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F13	38.6	28.6	10	25.9%	YES	99.9	99.9	0.0	0.0%	YES	82	29	61	24	25.6%	17.2%	YES
			LKD	W25/F13	38.6	27.7	10.9	28.2%	YES												
			LKD	W26/F13	38.7	26.7	12	31.0%	NO												
			LKD	W27/F13	21.4	13.8	7.6	35.5%	NO												
			LKD	W28/F13	20.4	14.1	6.3	30.9%	NO												
F14	R1	RESIDENTIAL	LKD	W1/F14	14.2	14.2	0	0.0%	YES	100	99.1	0.4	0.9%	YES	60	22	34	12	43.3%	45.5%	YES
			LKD	W2/F14	14.2	14.2	0	0.0%	YES												
			LKD	W3/F14	31.1	13.5	17.6	56.6%	NO												
			LKD	W4/F14	31.9	14.4	17.5	54.9%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	BEDROOM	W5/F14	32.5	15.9	16.6	51.1%	NO	99.7	78.1	2.2	21.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F14	32.8	16.3	16.5	50.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F14	33.2	16.8	16.4	49.4%	NO	97	47.6	4.7	50.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F14	33.5	17.4	16.1	48.1%	NO	98.8	43.6	6.2	55.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F14 / INC (2)	32.3	16.5	15.8	48.9%	NO	98.1	38.2	6.7	61.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F14 / INC (2)	32.9	17.1	15.8	48.0%	NO	91	46.8	4.6	48.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F14 / INC (2)	33.4	17.9	15.5	46.4%	NO	99.4	73.4	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F14 / INC (2)	33.8	18.9	14.9	44.1%	NO	100	99.8	0.1	0.2%	YES	94	28	69	27	26.6%	3.6%	YES
			LKD	W13/F14 / INC (2)	34.2	20.1	14.1	41.2%	NO												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W14/F14	38.7	31.7	7	18.1%	YES												
			LKD	W15/F14	38.6	31.3	7.3	18.9%	YES												
			LKD	W16/F14	38.6	30.9	7.7	19.9%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F14	38.4	30.1	8.3	21.6%	YES	97	90.9	0.7	6.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F14	38.2	29.2	9	23.6%	YES	97.6	97.6	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F14	38.2	31.1	7.1	18.6%	YES	94.8	94.8	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F14	38.5	30	8.5	22.1%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F14	38.6	28.6	10	25.9%	YES	99.9	99.9	0.0	0.0%	YES	82	29	62	24	24.4%	17.2%	YES
			LKD	W22/F14	38.7	27.8	10.9	28.2%	YES												
			LKD	W23/F14	38.7	26.7	12	31.0%	NO												
			LKD	W24/F14	21.5	14	7.5	34.9%	NO												
			LKD	W25/F14	20.5	14.3	6.2	30.2%	NO												
F15	R1	RESIDENTIAL	LKD	W1/F15	14.7	14.7	0	0.0%	YES	100	99.1	0.4	0.9%	YES	60	22	34	12	43.3%	45.5%	YES
			LKD	W2/F15	14.8	14.8	0	0.0%	YES												
			LKD	W3/F15	14.8	14.8	0	0.0%	YES												
			LKD	W4/F15	31.5	13.9	17.6	55.9%	NO												
			LKD	W5/F15	32.2	14.7	17.5	54.3%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F15	32.9	16.4	16.5	50.2%	NO	99.3	65.3	3.5	34.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F15	33.4	17	16.4	49.1%	NO	94.2	48.5	4.3	48.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F15	33.6	17.3	16.3	48.5%	NO	98.1	37.9	6.7	61.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F15 / INC (2)	32.6	16.7	15.9	48.8%	NO	92	41.4	5.6	55.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F15 / INC (2)	33.1	17.2	15.9	48.0%	NO	94.7	47.8	4.8	49.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F15 / INC (2)	33.5	17.9	15.6	46.6%	NO	99.7	85.7	1.4	14.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F15 / INC (2)	33.7	18.3	15.4	45.7%	NO												
	R8	RESIDENTIAL	LKD	W13/F15 / INC (2)	34.1	19.2	14.9	43.7%	NO	100	99.8	0.1	0.2%	YES	94	28	69	27	26.6%	3.6%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W14/F15 / INC (2)	34.5	20.3	14.2	41.2%	NO												
			LKD	W15/F15	38.7	31.7	7	18.1%	YES												
			LKD	W16/F15	38.7	31.3	7.4	19.1%	YES												
			LKD	W17/F15	38.6	31	7.6	19.7%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F15 / INC (2)	38.4	29.9	8.5	22.1%	YES	98.1	86.1	1.4	12.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F15 / INC (2)	38.4	29.4	9	23.4%	YES	98.4	98.3	0.0	0.0%	YES	76	27	61	26	19.7%	3.7%	YES
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W20/F15 / INC (2)	38.2	28.8	9.4	24.6%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F15	38.2	31.1	7.1	18.6%	YES	97.4	97.4	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
			LKD	W22/F15	38.4	30.8	7.6	19.8%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F15	38.5	30	8.5	22.1%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F15	38.7	28.6	10.1	26.1%	YES	99.9	99.9	0.0	0.0%	YES	82	29	62	24	24.4%	17.2%	YES
			LKD	W25/F15	38.7	27.8	10.9	28.2%	YES												
			LKD	W26/F15	38.8	26.7	12.1	31.2%	NO												
			LKD	W27/F15	21.7	14.1	7.6	35.0%	NO												
			LKD	W28/F15	20.7	14.4	6.3	30.4%	NO												
F16	R1	RESIDENTIAL	LKD	W1/F16	15.4	15.4	0	0.0%	YES	100	99.1	0.4	0.9%	YES	60	22	35	12	41.7%	45.5%	YES
			LKD	W2/F16	15.5	15.5	0	0.0%	YES												
			LKD	W3/F16	31.9	14.3	17.6	55.2%	NO												
			LKD	W4/F16	32.5	15.1	17.4	53.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F16	33.2	16.5	16.7	50.3%	NO	99.7	79.2	2.1	20.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F16	33.4	16.9	16.5	49.4%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F16	33.8	17.4	16.4	48.5%	NO	97	47.9	4.7	50.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F16	34.1	17.9	16.2	47.5%	NO	98.8	43.7	6.1	55.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F16 / INC (2)	33.1	17.1	16	48.3%	NO	98.1	38.4	6.7	60.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F16 / INC (2)	33.6	17.7	15.9	47.3%	NO	92	46.8	4.7	49.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F16 / INC (2)	34	18.4	15.6	45.9%	NO	99.4	73.4	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F16 / INC (2)	34.4	19.4	15	43.6%	NO	100	99.8	0.1	0.2%	YES	94	28	69	27	26.6%	3.6%	YES
			LKD	W13/F16 / INC (2)	34.8	20.5	14.3	41.1%	NO												
			LKD	W14/F16	38.8	31.8	7	18.0%	YES												
			LKD	W15/F16	38.8	31.4	7.4	19.1%	YES												
			LKD	W16/F16	38.7	31.1	7.6	19.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F16	38.5	30.1	8.4	21.8%	YES	97	91	0.7	6.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F16	38.4	29.3	9.1	23.7%	YES	97.6	97.6	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F16	38.3	31.1	7.2	18.8%	YES	94.8	94.8	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R12	RESIDENTIAL	BEDROOM	W20/F16	38.6	30	8.6	22.3%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F16	38.8	28.6	10.2	26.3%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W22/F16	38.8	27.8	11	28.4%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W23/F16	38.8	26.7	12.1	31.2%	NO												
			LKD	W24/F16	21.9	14.3	7.6	34.7%	NO												
			LKD	W25/F16	20.9	14.5	6.4	30.6%	NO												
F17	R1	RESIDENTIAL	LKD	W1/F17	16.1	16.1	0	0.0%	YES	100	99.1	0.3	0.9%	YES	60	22	35	12	41.7%	45.5%	YES
			LKD	W2/F17	16.2	16.2	0	0.0%	YES												
			LKD	W3/F17	16.3	16.3	0	0.0%	YES												
			LKD	W4/F17	32.3	14.7	17.6	54.5%	NO												
			LKD	W5/F17	32.9	15.4	17.5	53.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F17	33.6	17	16.6	49.4%	NO	99.2	66.8	3.3	32.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F17	34	17.5	16.5	48.5%	NO	94.7	49.9	4.2	47.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F17	34.2	17.9	16.3	47.7%	NO	98.4	38.7	6.7	60.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F17 / INC (2)	33.3	17.4	15.9	47.7%	NO	92.7	42.1	5.6	54.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F17 / INC (2)	33.8	17.8	16	47.3%	NO	95	48.6	4.8	48.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F17 / INC (2)	34.2	18.4	15.8	46.2%	NO	99.7	85.9	1.4	13.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F17 / INC (2)	34.4	18.8	15.6	45.3%	NO												
	R8	RESIDENTIAL	LKD	W13/F17 / INC (2)	34.7	19.6	15.1	43.5%	NO	100	99.8	0.1	0.2%	YES	95	28	69	27	27.4%	3.6%	YES
			LKD	W14/F17 / INC (2)	35.1	20.7	14.4	41.0%	NO												
			LKD	W15/F17	38.9	31.9	7	18.0%	YES												
			LKD	W16/F17	38.8	31.5	7.3	18.8%	YES												
			LKD	W17/F17	38.8	31.1	7.7	19.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F17 / INC (2)	38.6	30	8.6	22.3%	YES	98.1	86.1	1.4	12.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F17 / INC (2)	38.5	29.4	9.1	23.6%	YES	98.4	98.3	0.0	0.0%	YES	76	27	62	26	18.4%	3.7%	YES
			LKD	W20/F17 / INC (2)	38.3	28.9	9.4	24.5%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F17	38.3	31.2	7.1	18.5%	YES	97.4	97.4	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
			LKD	W22/F17	38.5	30.8	7.7	20.0%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F17	38.6	30.1	8.5	22.0%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F17	38.8	28.7	10.1	26.0%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W25/F17	38.8	27.8	11	28.4%	YES												
			LKD	W26/F17	38.9	26.7	12.2	31.4%	NO												
			LKD	W27/F17	22	14.4	7.6	34.5%	NO												
			LKD	W28/F17	21	14.7	6.3	30.0%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
DEANSGATE SOUTH TOWER (CONTINUED)																					
F18	R1	RESIDENTIAL	LKD	W1/F18	16.9	16.9	0	0.0%	YES	100	99.1	0.4	0.9%	YES	61	22	36	12	41.0%	45.5%	YES
			LKD	W2/F18	17.1	17.1	0	0.0%	YES												
			LKD	W3/F18	32.8	15.2	17.6	53.7%	NO												
			LKD	W4/F18	33.4	15.9	17.5	52.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F18	33.9	17.2	16.7	49.3%	NO	99.7	80.7	1.9	19.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F18	34.1	17.5	16.6	48.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F18	34.4	18	16.4	47.7%	NO	97	48.3	4.6	50.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F18	34.7	18.4	16.3	47.0%	NO	98.8	44.1	6.1	55.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F18 / INC (2)	33.8	17.8	16	47.3%	NO	98.2	38.5	6.6	60.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F18 / INC (2)	34.3	18.3	16	46.6%	NO	92.5	47.1	4.7	49.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F18 / INC (2)	34.7	19	15.7	45.2%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F18 / INC (2)	35	19.8	15.2	43.4%	NO	100	99.8	0.1	0.2%	YES	95	28	69	27	27.4%	3.6%	YES
			LKD	W13/F18 / INC (2)	35.4	20.9	14.5	41.0%	NO												
			LKD	W14/F18	38.9	31.9	7	18.0%	YES												
			LKD	W15/F18	38.9	31.5	7.4	19.0%	YES												
			LKD	W16/F18	38.8	31.2	7.6	19.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F18	38.6	30.2	8.4	21.8%	YES	97	91	0.7	6.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F18	38.5	29.4	9.1	23.6%	YES	97.6	97.6	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F18	38.4	31.1	7.3	19.0%	YES	94.8	94.8	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F18	38.6	30.1	8.5	22.0%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F18	38.8	28.7	10.1	26.0%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W22/F18	38.9	27.8	11.1	28.5%	YES												
			LKD	W23/F18	38.9	26.7	12.2	31.4%	NO												
			LKD	W24/F18	22.2	14.5	7.7	34.7%	NO												
			LKD	W25/F18	21.1	14.8	6.3	29.9%	NO												
F19	R1	RESIDENTIAL	LKD	W1/F19	17.6	17.6	0	0.0%	YES	100	99.1	0.4	0.9%	YES	61	22	36	12	41.0%	45.5%	YES
			LKD	W2/F19	17.8	17.8	0	0.0%	YES												
			LKD	W3/F19	18	18	0	0.0%	YES												
			LKD	W4/F19	33.3	15.8	17.5	52.6%	NO												
			LKD	W5/F19	33.8	16.3	17.5	51.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F19	34.4	17.8	16.6	48.3%	NO	99.3	68	3.2	31.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W7/F19	34.7	18.2	16.5	47.6%	NO	95.8	51.6	4.2	46.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F19	34.8	18.4	16.4	47.1%	NO	98.4	39.4	6.6	60.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R5	RESIDENTIAL	BEDROOM	W9/F19 / INC (2)	34.1	18.1	16	46.9%	NO	93.9	42.5	5.7	54.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F19 / INC (2)	34.5	18.4	16.1	46.7%	NO	95.8	49.5	4.8	48.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F19 / INC (2)	34.9	19	15.9	45.6%	NO	99.7	85.9	1.4	13.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F19 / INC (2)	35	19.3	15.7	44.9%	NO												
	R8	RESIDENTIAL	LKD	W13/F19 / INC (2)	35.3	20.1	15.2	43.1%	NO	100	99.8	0.1	0.2%	YES	95	28	69	27	27.4%	3.6%	YES
			LKD	W14/F19 / INC (2)	35.6	21	14.6	41.0%	NO												
			LKD	W15/F19	39	32	7	17.9%	YES												
			LKD	W16/F19	38.9	31.6	7.3	18.8%	YES												
			LKD	W17/F19	38.9	31.2	7.7	19.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F19 / INC (2)	38.7	30.1	8.6	22.2%	YES	98.1	86.1	1.4	12.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F19 / INC (2)	38.6	29.5	9.1	23.6%	YES	98.4	98.3	0.0	0.0%	YES	76	27	62	26	18.4%	3.7%	YES
			LKD	W20/F19 / INC (2)	38.4	29	9.4	24.5%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F19	38.4	31.2	7.2	18.8%	YES	97.4	97.4	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
			LKD	W22/F19	38.5	30.9	7.6	19.7%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F19	38.7	30.1	8.6	22.2%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F19	38.9	28.7	10.2	26.2%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W25/F19	38.9	27.9	11	28.3%	YES												
			LKD	W26/F19	39	26.8	12.2	31.3%	NO												
			LKD	W27/F19	22.3	14.7	7.6	34.1%	NO												
			LKD	W28/F19	21.2	14.9	6.3	29.7%	NO												
F20	R1	RESIDENTIAL	LKD	W1/F20	18.6	18.6	0	0.0%	YES	100	99.1	0.3	0.9%	YES	61	22	36	12	41.0%	45.5%	YES
			LKD	W2/F20	19	19	0	0.0%	YES												
			LKD	W3/F20	33.9	16.4	17.5	51.6%	NO												
			LKD	W4/F20	34.3	16.8	17.5	51.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F20	34.7	18	16.7	48.1%	NO	99.7	82.5	1.8	17.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F20	34.9	18.2	16.7	47.9%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F20	35.1	18.6	16.5	47.0%	NO	97	48.1	4.6	50.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F20	35.3	18.9	16.4	46.5%	NO	98.8	44.1	6.1	55.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F20 / INC (2)	34.6	18.5	16.1	46.5%	NO	98.2	38.4	6.7	60.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R6	RESIDENTIAL	BEDROOM	W10/F20 / INC (2)	35	18.8	16.2	46.3%	NO	93.6	47.2	4.8	49.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F20 / INC (2)	35.3	19.5	15.8	44.8%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F20 / INC (2)	35.6	20.3	15.3	43.0%	NO	100	99.8	0.1	0.2%	YES	95	28	69	27	27.4%	3.6%	YES
			LKD	W13/F20 / INC (2)	35.8	21.2	14.6	40.8%	NO												
			LKD	W14/F20	39	32.1	6.9	17.7%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	CRITERIA
			LKD	W15/F20	39	31.7	7.3	18.7%	YES												
			LKD	W16/F20	38.9	31.3	7.6	19.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F20	38.8	30.3	8.5	21.9%	YES	97	91	0.7	6.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F20	38.6	29.5	9.1	23.6%	YES	97.6	97.6	0.0	0.0%	YES	76	27	61	26	19.7%	3.7%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F20	38.5	31.2	7.3	19.0%	YES	94.8	94.8	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F20	38.7	30.1	8.6	22.2%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F20	38.9	28.7	10.2	26.2%	YES	99.9	99.9	0.0	0.0%	YES	82	29	62	24	24.4%	17.2%	YES
			LKD	W22/F20	38.9	27.9	11	28.3%	YES												
			LKD	W23/F20	39	26.8	12.2	31.3%	NO												
			LKD	W24/F20	22.4	14.8	7.6	33.9%	NO												
			LKD	W25/F20	21.4	15	6.4	29.9%	NO												
F21	R1	RESIDENTIAL	LKD	W1/F21	19.4	19.4	0	0.0%	YES	100	99.3	0.3	0.7%	YES	61	22	36	12	41.0%	45.5%	YES
			LKD	W2/F21	19.6	19.6	0	0.0%	YES												
			LKD	W3/F21	20	20	0	0.0%	YES												
			LKD	W4/F21	34.4	17	17.4	50.6%	NO												
			LKD	W5/F21	34.8	17.3	17.5	50.3%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F21	35.2	18.5	16.7	47.4%	NO	99.5	69.9	3.0	29.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F21	35.4	18.8	16.6	46.9%	NO	96.4	51.7	4.2	46.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F21	35.4	19	16.4	46.3%	NO	98.4	38.8	6.6	60.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F21 / INC (2)	34.9	18.8	16.1	46.1%	NO	95.3	41.7	6.0	56.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F21 / INC (2)	35.2	19	16.2	46.0%	NO	95.9	49.3	4.8	48.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F21 / INC (2)	35.5	19.5	16	45.1%	NO	99.7	86	1.4	13.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F21 / INC (2)	35.6	19.8	15.8	44.4%	NO												
	R8	RESIDENTIAL	LKD	W13/F21 / INC (2)	35.8	20.5	15.3	42.7%	NO	100	99.8	0.1	0.2%	YES	95	28	69	27	27.4%	3.6%	YES
			LKD	W14/F21 / INC (2)	36.1	21.4	14.7	40.7%	NO												
			LKD	W15/F21	39.1	32.2	6.9	17.6%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W16/F21	39	31.7	7.3	18.7%	YES												
			LKD	W17/F21	38.9	31.4	7.5	19.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F21 / INC (2)	38.8	30.2	8.6	22.2%	YES	98.1	86	1.4	12.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F21 / INC (2)	38.7	29.6	9.1	23.5%	YES	98.4	98.3	0.0	0.0%	YES	76	27	62	27	18.4%	0.0%	YES
			LKD	W20/F21 / INC (2)	38.5	29.1	9.4	24.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F21	38.5	31.3	7.2	18.7%	YES	97.4	97.4	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
			LKD	W22/F21	38.6	31	7.6	19.7%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F21	38.7	30.2	8.5	22.0%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R13	RESIDENTIAL	LKD	W24/F21	38.9	28.8	10.1	26.0%	YES	99.9	99.9	0.0	0.0%	YES	82	29	61	24	25.6%	17.2%	YES
			LKD	W25/F21	39	27.9	11.1	28.5%	YES												
			LKD	W26/F21	39	26.9	12.1	31.0%	NO												
			LKD	W27/F21	22.5	14.9	7.6	33.8%	NO												
			LKD	W28/F21	21.5	15.1	6.4	29.8%	NO												
F22	R1	RESIDENTIAL	LKD	W1/F22	20.4	20.4	0	0.0%	YES	100	99.6	0.2	0.4%	YES	62	22	36	12	41.9%	45.5%	YES
			LKD	W2/F22	21	21	0	0.0%	YES												
			LKD	W3/F22	35	17.6	17.4	49.7%	NO												
			LKD	W4/F22	35.3	17.8	17.5	49.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F22	35.6	18.8	16.8	47.2%	NO	99.7	83.9	1.6	15.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F22	35.6	18.9	16.7	46.9%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F22	35.8	19.2	16.6	46.4%	NO	97.2	47.6	4.7	51.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F22	35.9	19.5	16.4	45.7%	NO	98.8	43.9	6.1	55.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F22 / INC (2)	35.3	19.1	16.2	45.9%	NO	98.2	38.2	6.7	61.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F22 / INC (2)	35.6	19.4	16.2	45.5%	NO	93.8	47.1	4.8	49.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F22 / INC (2)	35.9	19.9	16	44.6%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F22 / INC (2)	36.1	20.7	15.4	42.7%	NO	100	99.8	0.1	0.2%	YES	96	28	69	27	28.1%	3.6%	YES
			LKD	W13/F22 / INC (2)	36.3	21.6	14.7	40.5%	NO												
			LKD	W14/F22	39.1	32.2	6.9	17.6%	YES												
			LKD	W15/F22	39	31.8	7.2	18.5%	YES												
			LKD	W16/F22	39	31.4	7.6	19.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F22	38.8	30.4	8.4	21.6%	YES	97	91.1	0.7	6.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F22	38.7	29.6	9.1	23.5%	YES	97.6	97.6	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R11 (3)	RESIDENTIAL	LKD	W19/F22	38.5	31.3	7.2	18.7%	YES	94.8	94.8	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F22	38.8	30.2	8.6	22.2%	YES	99.4	98.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F22	39	28.8	10.2	26.2%	YES	99.9	99.9	0.0	0.0%	YES	82	29	61	24	25.6%	17.2%	YES
			LKD	W22/F22	39	28	11	28.2%	YES												
			LKD	W23/F22	39.1	26.9	12.2	31.2%	NO												
			LKD	W24/F22	22.6	15	7.6	33.6%	NO												
			LKD	W25/F22	21.6	15.2	6.4	29.6%	NO												
F23	R1	RESIDENTIAL	LKD	W1/F23	21.1	21.1	0	0.0%	YES	100	99.7	0.1	0.3%	YES	64	22	38	12	40.6%	45.5%	YES
			LKD	W2/F23	21.5	21.5	0	0.0%	YES												
			LKD	W3/F23	22	22	0	0.0%	YES												
			LKD	W4/F23	35.5	18.2	17.3	48.7%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W5/F23	35.7	18.3	17.4	48.7%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F23	36	19.3	16.7	46.4%	NO	99.5	71.6	2.9	28.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F23	36.1	19.4	16.7	46.3%	NO	96.5	51.4	4.3	46.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F23	36	19.5	16.5	45.8%	NO	98.4	38.7	6.7	60.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F23 / INC (2)	35.6	19.4	16.2	45.5%	NO	96.7	41.8	6.1	56.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F23 / INC (2)	35.9	19.6	16.3	45.4%	NO	95.9	48.3	4.9	49.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F23 / INC (2)	36.1	20	16.1	44.6%	NO	99.7	86	1.4	13.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F23 / INC (2)	36.2	20.2	16	44.2%	NO												
	R8	RESIDENTIAL	LKD	W13/F23 / INC (2)	36.3	20.9	15.4	42.4%	NO	100	99.8	0.1	0.2%	YES	96	28	69	27	28.1%	3.6%	YES
			LKD	W14/F23 / INC (2)	36.5	21.7	14.8	40.5%	NO												
			LKD	W15/F23	39.1	32.3	6.8	17.4%	YES												
			LKD	W16/F23	39.1	31.9	7.2	18.4%	YES												
			LKD	W17/F23	39	31.5	7.5	19.2%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F23 / INC (2)	38.8	30.3	8.5	21.9%	YES	98.1	86.1	1.4	12.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F23 / INC (2)	38.8	29.7	9.1	23.5%	YES	98.4	98.3	0.0	0.0%	YES	76	27	62	26	18.4%	3.7%	YES
			LKD	W20/F23 / INC (2)	38.6	29.2	9.4	24.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F23	38.5	31.3	7.2	18.7%	YES	97.4	97.4	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
			LKD	W22/F23	38.7	31	7.7	19.9%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F23	38.8	30.3	8.5	21.9%	YES	99.4	98.5	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F23	39	28.9	10.1	25.9%	YES	99.9	99.9	0.0	0.0%	YES	82	29	61	24	25.6%	17.2%	YES
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W25/F23	39	28	11	28.2%	YES												
			LKD	W26/F23	39.1	26.9	12.2	31.2%	NO												
			LKD	W27/F23	22.7	15.1	7.6	33.5%	NO												
			LKD	W28/F23	21.7	15.3	6.4	29.5%	NO												
F24	R1	RESIDENTIAL	LKD	W1/F24	22.2	22.2	0	0.0%	YES	100	99.7	0.1	0.3%	YES	64	22	38	12	40.6%	45.5%	YES
			LKD	W2/F24	23	23	0	0.0%	YES												
			LKD	W3/F24	36.1	18.7	17.4	48.2%	NO												
			LKD	W4/F24	36.2	18.8	17.4	48.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F24	36.3	19.6	16.7	46.0%	NO	99.7	85.4	1.5	14.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F24	36.3	19.7	16.6	45.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F24	36.4	19.8	16.6	45.6%	NO	97.3	47.7	4.7	51.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F24	36.4	20	16.4	45.1%	NO	98.8	43.6	6.2	55.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F24 / INC (2)	36	19.7	16.3	45.3%	NO	98.3	38.3	6.7	61.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F24 / INC (2)	36.2	19.9	16.3	45.0%	NO	93.8	46.8	4.9	50.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R7	RESIDENTIAL	BEDROOM	W11/F24 / INC (2)	36.4	20.4	16	44.0%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F24 / INC (2)	36.6	21	15.6	42.6%	NO	100	99.8	0.1	0.2%	YES	98	29	70	28	28.6%	3.4%	YES
			LKD	W13/F24 / INC (2)	36.7	21.9	14.8	40.3%	NO												
			LKD	W14/F24	39.2	32.4	6.8	17.3%	YES												
			LKD	W15/F24	39.1	31.9	7.2	18.4%	YES												
			LKD	W16/F24	39.1	31.6	7.5	19.2%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F24	38.9	30.6	8.3	21.3%	YES	97	91.3	0.7	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F24	38.7	29.7	9	23.3%	YES	97.6	97.6	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F24	38.6	31.3	7.3	18.9%	YES	94.8	94.8	0.0	0.0%	YES	76	27	60	26	21.1%	3.7%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F24	38.8	30.3	8.5	21.9%	YES	99.4	98.5	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F24	39	28.9	10.1	25.9%	YES	99.9	99.9	0.0	0.0%	YES	82	29	61	24	25.6%	17.2%	YES
			LKD	W22/F24	39.1	28.1	11	28.1%	YES												
			LKD	W23/F24	39.1	27	12.1	30.9%	YES												
			LKD	W24/F24	22.8	15.2	7.6	33.3%	NO												
			LKD	W25/F24	21.8	15.5	6.3	28.9%	NO												
F25	R1	RESIDENTIAL	LKD	W1/F25	22.9	22.9	0	0.0%	YES	100	99.7	0.1	0.3%	YES	65	22	39	12	40.0%	45.5%	YES
			LKD	W2/F25	23.4	23.4	0	0.0%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W3/F25	24	24	0	0.0%	YES												
			LKD	W4/F25	36.5	19.2	17.3	47.4%	NO												
			LKD	W5/F25	36.6	19.2	17.4	47.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F25	36.7	20.1	16.6	45.2%	NO	99.5	72.4	2.8	27.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F25	36.7	20	16.7	45.5%	NO	96.5	51.7	4.2	46.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F25	36.6	20	16.6	45.4%	NO	98.4	38.9	6.6	60.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F25 / INC (2)	36.3	20	16.3	44.9%	NO	97.6	42.1	6.2	56.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F25 / INC (2)	36.5	20.1	16.4	44.9%	NO	95.9	48.5	4.9	49.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F25 / INC (2)	36.6	20.4	16.2	44.3%	NO	99.7	86	1.4	13.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F25 / INC (2)	36.7	20.6	16.1	43.9%	NO												
	R8	RESIDENTIAL	LKD	W13/F25 / INC (2)	36.8	21.2	15.6	42.4%	NO	100	99.8	0.1	0.2%	YES	98	29	70	28	28.6%	3.4%	YES
			LKD	W14/F25 / INC (2)	36.9	22	14.9	40.4%	NO												
			LKD	W15/F25	39.2	32.5	6.7	17.1%	YES												
			LKD	W16/F25	39.1	32	7.1	18.2%	YES												
			LKD	W17/F25	39.1	31.6	7.5	19.2%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F25 / INC (2)	38.9	30.4	8.5	21.9%	YES	98.1	86.2	1.4	12.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F25 / INC (2)	38.8	29.8	9	23.2%	YES	98.4	98.3	0.0	0.0%	YES	77	28	61	26	20.8%	7.1%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W20/F25 / INC (2)	38.7	29.3	9.4	24.3%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F25	38.6	31.4	7.2	18.7%	YES	97.4	97.4	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
			LKD	W22/F25	38.7	31.1	7.6	19.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F25	38.9	30.3	8.6	22.1%	YES	99.4	98.5	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F25	39.1	28.9	10.2	26.1%	YES	99.9	99.9	0.0	0.0%	YES	82	29	61	24	25.6%	17.2%	YES
			LKD	W25/F25	39.1	28.1	11	28.1%	YES												
			LKD	W26/F25	39.2	27	12.2	31.1%	YES												
			LKD	W27/F25	23	15.3	7.7	33.5%	NO												
			LKD	W28/F25	21.9	15.6	6.3	28.8%	NO												
F26	R1	RESIDENTIAL	LKD	W1/F26	23.9	23.9	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	41	12	37.9%	45.5%	YES
			LKD	W2/F26	24.8	24.8	0	0.0%	YES												
			LKD	W3/F26	36.8	19.5	17.3	47.0%	NO												
			LKD	W4/F26	36.8	19.5	17.3	47.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F26	36.9	20.2	16.7	45.3%	NO	99.7	86.2	1.4	13.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
			BEDROOM	W6/F26	36.9	20.2	16.7	45.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F26	36.9	20.3	16.6	45.0%	NO	97.3	47.8	4.7	50.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F26	36.9	20.4	16.5	44.7%	NO	98.8	43.7	6.1	55.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F26 / INC (2)	36.6	20.2	16.4	44.8%	NO	98.3	38.4	6.7	60.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F26 / INC (2)	36.7	20.3	16.4	44.7%	NO	93.9	46.8	4.9	50.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F26 / INC (2)	36.9	20.7	16.2	43.9%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F26 / INC (2)	37	21.3	15.7	42.4%	NO	100	99.8	0.1	0.2%	YES	98	29	70	28	28.6%	3.4%	YES
			LKD	W13/F26 / INC (2)	37.1	22.1	15	40.4%	NO												
			LKD	W14/F26	39.2	32.6	6.6	16.8%	YES												
			LKD	W15/F26	39.2	32.1	7.1	18.1%	YES												
			LKD	W16/F26	39.1	31.7	7.4	18.9%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F26	39	30.7	8.3	21.3%	YES	97	91.4	0.7	5.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F26	38.8	29.8	9	23.2%	YES	97.6	97.6	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F26	38.7	31.4	7.3	18.9%	YES	94.8	94.8	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F26	38.9	30.4	8.5	21.9%	YES	99.4	98.5	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F26	39.1	29	10.1	25.8%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W22/F26	39.1	28.1	11	28.1%	YES												
			LKD	W23/F26	39.2	27	12.2	31.1%	YES												
			LKD	W24/F26	23.1	15.5	7.6	32.9%	NO												
			LKD	W25/F26	22	15.7	6.3	28.6%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F27	R1	RESIDENTIAL	LKD	W1/F27	24.3	24.3	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	41	12	37.9%	45.5%	YES
			LKD	W2/F27	24.8	24.8	0	0.0%	YES												
			LKD	W3/F27	25.5	25.5	0	0.0%	YES												
			LKD	W4/F27	36.9	19.7	17.2	46.6%	NO												
			LKD	W5/F27	37	19.7	17.3	46.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F27	37	20.4	16.6	44.9%	NO	99.5	74	2.6	25.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F27	37	20.4	16.6	44.9%	NO	96.6	52.1	4.2	46.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F27	36.8	20.3	16.5	44.8%	NO	98.4	39.3	6.6	60.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F27 / INC (2)	36.7	20.4	16.3	44.4%	NO	98.2	42.6	6.2	56.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F27 / INC (2)	36.8	20.4	16.4	44.6%	NO	95.9	49	4.8	48.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F27 / INC (2)	36.9	20.7	16.2	43.9%	NO	99.7	86.1	1.4	13.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
			BEDROOM	W12/F27 / INC (2)	37	20.9	16.1	43.5%	NO												
	R8	RESIDENTIAL	LKD	W13/F27 / INC (2)	37.1	21.4	15.7	42.3%	NO	100	99.8	0.1	0.2%	YES	98	29	70	28	28.6%	3.4%	YES
			LKD	W14/F27 / INC (2)	37.2	22.2	15	40.3%	NO												
			LKD	W15/F27	39.3	32.7	6.6	16.8%	YES												
			LKD	W16/F27	39.2	32.2	7	17.9%	YES												
			LKD	W17/F27	39.2	31.8	7.4	18.9%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F27 / INC (2)	39	30.5	8.5	21.8%	YES	98.1	86.3	1.4	11.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F27 / INC (2)	38.9	30	8.9	22.9%	YES	98.4	98.3	0.0	0.0%	YES	77	28	62	26	19.5%	7.1%	YES
			LKD	W20/F27 / INC (2)	38.7	29.4	9.3	24.0%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F27	38.6	31.5	7.1	18.4%	YES	97.4	97.4	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
			LKD	W22/F27	38.8	31.2	7.6	19.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F27	38.9	30.4	8.5	21.9%	YES	99.4	98.5	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F27	39.1	29	10.1	25.8%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W25/F27	39.2	28.2	11	28.1%	YES												
			LKD	W26/F27	39.2	27.1	12.1	30.9%	YES												
			LKD	W27/F27	23.2	15.6	7.6	32.8%	NO												
			LKD	W28/F27	22.2	15.9	6.3	28.4%	NO												
F28	R1	RESIDENTIAL	LKD	W1/F28	25.3	25.3	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	41	12	37.9%	45.5%	YES
			LKD	W2/F28	26.2	26.2	0	0.0%	YES												
			LKD	W3/F28	37.1	19.9	17.2	46.4%	NO												
			LKD	W4/F28	37.1	19.9	17.2	46.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F28	37.2	20.5	16.7	44.9%	NO	99.7	87.6	1.2	12.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F28	37.1	20.5	16.6	44.7%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	BEDROOM	W7/F28	37.1	20.5	16.6	44.7%	NO	97.3	48.2	4.6	50.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F28	37.1	20.6	16.5	44.5%	NO	98.8	44.1	6.1	55.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F28 / INC (2)	36.9	20.4	16.5	44.7%	NO	98.3	38.6	6.7	60.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F28 / INC (2)	37	20.6	16.4	44.3%	NO	93.9	47.2	4.8	49.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F28 / INC (2)	37.1	20.9	16.2	43.7%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F28 / INC (2)	37.2	21.5	15.7	42.2%	NO	100	99.8	0.1	0.2%	YES	98	29	70	28	28.6%	3.4%	YES
			LKD	W13/F28 / INC (2)	37.4	22.3	15.1	40.4%	NO												
			LKD	W14/F28	39.3	32.8	6.5	16.5%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W15/F28	39.2	32.3	6.9	17.6%	YES												
			LKD	W16/F28	39.2	31.9	7.3	18.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F28	39	30.9	8.1	20.8%	YES	97	91.6	0.6	5.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F28	38.9	30	8.9	22.9%	YES	97.6	97.6	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F28	38.7	31.5	7.2	18.6%	YES	94.8	94.8	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F28	38.9	30.5	8.4	21.6%	YES	99.4	98.6	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F28	39.1	29.1	10	25.6%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W22/F28	39.2	28.2	11	28.1%	YES												
			LKD	W23/F28	39.2	27.1	12.1	30.9%	YES												
			LKD	W24/F28	23.4	15.8	7.6	32.5%	NO												
			LKD	W25/F28	22.3	16	6.3	28.3%	NO												
F29	R1	RESIDENTIAL	LKD	W1/F29	25.8	25.8	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	41	12	37.9%	45.5%	YES
			LKD	W2/F29	26.3	26.3	0	0.0%	YES												
			LKD	W3/F29	27	27	0	0.0%	YES												
			LKD	W4/F29	37.2	20.2	17	45.7%	NO												
			LKD	W5/F29	37.2	20.1	17.1	46.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F29	37.3	20.8	16.5	44.2%	NO	99.5	75.1	2.5	24.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F29	37.2	20.6	16.6	44.6%	NO	96.6	52.9	4.1	45.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F29	37.1	20.6	16.5	44.5%	NO	98.4	39.8	6.5	59.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F29 / INC (2)	37	20.7	16.3	44.1%	NO	98.4	43.1	6.2	56.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F29 / INC (2)	37.1	20.7	16.4	44.2%	NO	95.9	49.6	4.8	48.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F29 / INC (2)	37.2	20.9	16.3	43.8%	NO	99.7	86.1	1.4	13.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F29 / INC (2)	37.3	21.1	16.2	43.4%	NO												
	R8	RESIDENTIAL	LKD	W13/F29 / INC (2)	37.4	21.6	15.8	42.2%	NO	100	99.8	0.1	0.2%	YES	98	29	70	28	28.6%	3.4%	YES
			LKD	W14/F29 / INC (2)	37.5	22.4	15.1	40.3%	NO												
			LKD	W15/F29	39.3	32.9	6.4	16.3%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W16/F29	39.3	32.4	6.9	17.6%	YES												
			LKD	W17/F29	39.2	32	7.2	18.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F29 / INC (2)	39	30.7	8.3	21.3%	YES	98.1	86.4	1.4	11.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F29 / INC (2)	39	30.2	8.8	22.6%	YES	98.4	98.3	0.0	0.0%	YES	77	28	62	26	19.5%	7.1%	YES
			LKD	W20/F29 / INC (2)	38.8	29.6	9.2	23.7%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R11 (3)	RESIDENTIAL	LKD	W21/F29	38.7	31.7	7	18.1%	YES	97.4	97.4	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
			LKD	W22/F29	38.8	31.3	7.5	19.3%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F29	39	30.6	8.4	21.5%	YES	99.4	98.6	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F29	39.2	29.2	10	25.5%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W25/F29	39.2	28.3	10.9	27.8%	YES												
			LKD	W26/F29	39.3	27.2	12.1	30.8%	YES												
			LKD	W27/F29	23.6	16	7.6	32.2%	NO												
			LKD	W28/F29	22.5	16.3	6.2	27.6%	NO												
F30	R1	RESIDENTIAL	LKD	W1/F30	26.8	26.8	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	41	12	37.9%	45.5%	YES
			LKD	W2/F30	27.8	27.8	0	0.0%	YES												
			LKD	W3/F30	37.4	20.4	17	45.5%	NO												
			LKD	W4/F30	37.4	20.3	17.1	45.7%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F30	37.4	20.8	16.6	44.4%	NO	99.7	88.5	1.1	11.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F30	37.4	20.8	16.6	44.4%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F30	37.4	20.8	16.6	44.4%	NO	97.3	48.3	4.6	50.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F30	37.3	20.9	16.4	44.0%	NO	98.8	44.2	6.1	55.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F30 / INC (2)	37.1	20.8	16.3	43.9%	NO	98.3	38.7	6.6	60.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F30 / INC (2)	37.3	20.9	16.4	44.0%	NO	93.9	47.4	4.8	49.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F30 / INC (2)	37.4	21.2	16.2	43.3%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F30 / INC (2)	37.5	21.8	15.7	41.9%	NO	100	99.8	0.1	0.2%	YES	98	29	70	28	28.6%	3.4%	YES
			LKD	W13/F30 / INC (2)	37.6	22.6	15	39.9%	NO												
			LKD	W14/F30	39.3	33	6.3	16.0%	YES												
			LKD	W15/F30	39.3	32.5	6.8	17.3%	YES												
			LKD	W16/F30	39.2	32.1	7.1	18.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F30	39.1	31.1	8	20.5%	YES	97	91.8	0.6	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F30	39	30.2	8.8	22.6%	YES	97.6	97.6	0.0	0.0%	YES	77	28	61	26	20.8%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F30	38.8	31.7	7.1	18.3%	YES	94.8	94.8	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F30	39	30.6	8.4	21.5%	YES	99.4	98.7	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F30	39.2	29.2	10	25.5%	YES	99.9	99.9	0.0	0.0%	YES	82	29	62	24	24.4%	17.2%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W22/F30	39.3	28.4	10.9	27.7%	YES												
			LKD	W23/F30	39.3	27.3	12	30.5%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W24/F30	23.7	16.2	7.5	31.6%	NO												
			LKD	W25/F30	22.7	16.5	6.2	27.3%	NO												
F31	R1	RESIDENTIAL	LKD	W1/F31	27.5	27.5	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	40	12	39.4%	45.5%	YES
			LKD	W2/F31	28	28	0	0.0%	YES												
			LKD	W3/F31	28.7	28.7	0	0.0%	YES												
			LKD	W4/F31	37.5	20.7	16.8	44.8%	NO												
			LKD	W5/F31	37.5	20.5	17	45.3%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F31	37.5	21.1	16.4	43.7%	NO	99.5	75.3	2.5	24.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F31	37.5	20.9	16.6	44.3%	NO	96.5	52.8	4.1	45.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F31	37.3	20.8	16.5	44.2%	NO	98.4	39.7	6.5	59.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F31 / INC (2)	37.3	21	16.3	43.7%	NO	98.8	43.3	6.2	56.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F31 / INC (2)	37.4	21	16.4	43.9%	NO	95.9	49.6	4.8	48.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F31 / INC (2)	37.5	21.2	16.3	43.5%	NO	99.7	86.1	1.4	13.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F31 / INC (2)	37.5	21.4	16.1	42.9%	NO												
	R8	RESIDENTIAL	LKD	W13/F31 / INC (2)	37.6	21.9	15.7	41.8%	NO	100	99.8	0.1	0.2%	YES	98	29	70	28	28.6%	3.4%	YES
			LKD	W14/F31 / INC (2)	37.7	22.7	15	39.8%	NO												
			LKD	W15/F31	39.4	33.2	6.2	15.7%	YES												
			LKD	W16/F31	39.3	32.6	6.7	17.0%	YES												
			LKD	W17/F31	39.3	32.3	7	17.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F31 / INC (2)	39.1	30.9	8.2	21.0%	YES	98.1	86.7	1.4	11.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F31 / INC (2)	39	30.4	8.6	22.1%	YES	98.4	98.3	0.0	0.0%	YES	77	28	62	27	19.5%	3.6%	YES
			LKD	W20/F31 / INC (2)	38.9	29.8	9.1	23.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F31	38.7	31.8	6.9	17.8%	YES	97.4	97.4	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
			LKD	W22/F31	38.9	31.5	7.4	19.0%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F31	39	30.7	8.3	21.3%	YES	99.4	98.8	0.1	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F31	39.2	29.4	9.8	25.0%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W25/F31	39.3	28.5	10.8	27.5%	YES												
			LKD	W26/F31	39.3	27.4	11.9	30.3%	YES												
			LKD	W27/F31	23.9	16.4	7.5	31.4%	NO												
			LKD	W28/F31	22.9	16.7	6.2	27.1%	NO												
F32	R1	RESIDENTIAL	LKD	W1/F32	28.7	28.7	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	40	12	39.4%	45.5%	YES
DEANSGATE SOUTH TOWER (CONTINUED)																					

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W2/F32	29.6	29.6	0	0.0%	YES												
			LKD	W3/F32	37.6	21	16.6	44.1%	NO												
			LKD	W4/F32	37.6	20.7	16.9	44.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F32	37.6	21.2	16.4	43.6%	NO	99.7	88.5	1.1	11.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F32	37.6	21.1	16.5	43.9%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F32	37.6	21.1	16.5	43.9%	NO	97.3	48	4.7	50.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F32	37.5	21.2	16.3	43.5%	NO	98.8	44.1	6.1	55.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F32 / INC (2)	37.4	21.1	16.3	43.6%	NO	98.3	38.5	6.7	60.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F32 / INC (2)	37.6	21.2	16.4	43.6%	NO	93.9	47.4	4.8	49.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F32 / INC (2)	37.7	21.5	16.2	43.0%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F32 / INC (2)	37.7	22.1	15.6	41.4%	NO	100	99.8	0.1	0.2%	YES	99	29	70	28	29.3%	3.4%	YES
			LKD	W13/F32 / INC (2)	37.8	22.8	15	39.7%	NO												
			LKD	W14/F32	39.4	33.3	6.1	15.5%	YES												
			LKD	W15/F32	39.3	32.8	6.5	16.5%	YES												
			LKD	W16/F32	39.3	32.4	6.9	17.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F32	39.1	31.3	7.8	19.9%	YES	97	92.3	0.6	4.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F32	39	30.4	8.6	22.1%	YES	97.6	97.6	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F32	38.8	31.9	6.9	17.8%	YES	94.8	94.8	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F32	39	30.9	8.1	20.8%	YES	99.4	98.9	0.1	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F32	39.2	29.5	9.7	24.7%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W22/F32	39.3	28.6	10.7	27.2%	YES												
			LKD	W23/F32	39.3	27.5	11.8	30.0%	YES												
			LKD	W24/F32	24.1	16.7	7.4	30.7%	NO												
			LKD	W25/F32	23.1	17	6.1	26.4%	NO												
F33	R1	RESIDENTIAL	LKD	W1/F33	29.4	29.4	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	40	12	39.4%	45.5%	YES
			LKD	W2/F33	29.8	29.8	0	0.0%	YES												
			LKD	W3/F33	30.5	30.5	0	0.0%	YES												
			LKD	W4/F33	37.7	21.2	16.5	43.8%	NO												
			LKD	W5/F33	37.7	20.9	16.8	44.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F33	37.7	21.4	16.3	43.2%	NO	99.5	74.7	2.6	25.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F33	37.7	21.3	16.4	43.5%	NO	96.5	52.1	4.2	46.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R4	RESIDENTIAL	BEDROOM	W8/F33	37.5	21.2	16.3	43.5%	NO	98.4	39.1	6.6	60.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F33 / INC (2)	37.5	21.3	16.2	43.2%	NO	98.8	42.3	6.3	57.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F33 / INC (2)	37.6	21.3	16.3	43.4%	NO	95.9	49.2	4.8	48.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R7	RESIDENTIAL	BEDROOM	W11/F33 / INC (2)	37.7	21.5	16.2	43.0%	NO	99.7	86.1	1.4	13.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F33 / INC (2)	37.8	21.7	16.1	42.6%	NO												
	R8	RESIDENTIAL	LKD	W13/F33 / INC (2)	37.8	22.2	15.6	41.3%	NO	100	99.8	0.1	0.2%	YES	99	29	70	28	29.3%	3.4%	YES
			LKD	W14/F33 / INC (2)	37.9	23	14.9	39.3%	NO												
			LKD	W15/F33	39.4	33.4	6	15.2%	YES												
			LKD	W16/F33	39.3	32.9	6.4	16.3%	YES												
			LKD	W17/F33	39.3	32.5	6.8	17.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F33 / INC (2)	39.1	31.2	7.9	20.2%	YES	98.1	87.1	1.3	11.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F33 / INC (2)	39	30.7	8.3	21.3%	YES	98.4	98.3	0.0	0.0%	YES	77	28	61	26	20.8%	7.1%	YES
			LKD	W20/F33 / INC (2)	38.9	30.1	8.8	22.6%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F33	38.7	32	6.7	17.3%	YES	97.4	97.4	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
			LKD	W22/F33	38.9	31.7	7.2	18.5%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F33	39	31	8	20.5%	YES	99.4	99.1	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F33	39.2	29.6	9.6	24.5%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W25/F33	39.3	28.8	10.5	26.7%	YES												
			LKD	W26/F33	39.3	27.7	11.6	29.5%	YES												
			LKD	W27/F33	24.4	17	7.4	30.3%	NO												
			LKD	W28/F33	23.4	17.3	6.1	26.1%	NO												
F34	R1	RESIDENTIAL	LKD	W1/F34	30.6	30.6	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	40	12	39.4%	45.5%	YES
			LKD	W2/F34	31.4	31.4	0	0.0%	YES												
			LKD	W3/F34	37.8	21.5	16.3	43.1%	NO												
			LKD	W4/F34	37.8	21.1	16.7	44.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F34	37.8	21.6	16.2	42.9%	NO	99.7	87.7	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F34	37.8	21.5	16.3	43.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F34	37.8	21.5	16.3	43.1%	NO	97.3	47.9	4.7	50.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F34	37.7	21.5	16.2	43.0%	NO	98.8	43.6	6.2	55.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F34 / INC (2)	37.6	21.5	16.1	42.8%	NO	98.3	38.6	6.7	60.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F34 / INC (2)	37.8	21.5	16.3	43.1%	NO	93.9	47.1	4.8	49.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R7	RESIDENTIAL	BEDROOM	W11/F34 / INC (2)	37.9	21.8	16.1	42.5%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F34 / INC (2)	37.9	22.3	15.6	41.2%	NO	100	99.8	0.1	0.2%	YES	99	29	70	28	29.3%	3.4%	YES
			LKD	W13/F34 / INC (2)	38	23.1	14.9	39.2%	NO												
			LKD	W14/F34	39.4	33.6	5.8	14.7%	YES												
			LKD	W15/F34	39.3	33.1	6.2	15.8%	YES												
			LKD	W16/F34	39.3	32.7	6.6	16.8%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R9	RESIDENTIAL	BEDROOM	W17/F34	39.1	31.6	7.5	19.2%	YES	97	92.9	0.5	4.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F34	39	30.8	8.2	21.0%	YES	97.6	97.6	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F34	38.8	32.1	6.7	17.3%	YES	94.8	94.8	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F34	39	31.1	7.9	20.3%	YES	99.4	99.3	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F34	39.2	29.7	9.5	24.2%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W22/F34	39.3	28.9	10.4	26.5%	YES												
			LKD	W23/F34	39.3	27.8	11.5	29.3%	YES												
			LKD	W24/F34	24.6	17.3	7.3	29.7%	NO												
			LKD	W25/F34	23.6	17.7	5.9	25.0%	NO												
F35	R1	RESIDENTIAL	LKD	W1/F35	31.5	31.5	0	0.0%	YES	100	99.7	0.1	0.3%	YES	66	22	40	12	39.4%	45.5%	YES
			LKD	W2/F35	31.8	31.8	0	0.0%	YES												
			LKD	W3/F35	32.3	32.3	0	0.0%	YES												
			LKD	W4/F35	37.9	21.7	16.2	42.7%	NO												
			LKD	W5/F35	37.9	21.4	16.5	43.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F35	37.9	21.9	16	42.2%	NO	99.5	74.5	2.6	25.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F35	37.9	21.7	16.2	42.7%	NO	96.5	52.3	4.2	45.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F35	37.7	21.5	16.2	43.0%	NO	98.4	39.3	6.6	60.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F35 / INC (2)	37.7	21.7	16	42.4%	NO	98.8	42.7	6.3	56.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F35 / INC (2)	37.8	21.7	16.1	42.6%	NO	95.9	49.2	4.8	48.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F35 / INC (2)	37.9	21.9	16	42.2%	NO	99.7	86.1	1.4	13.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F35 / INC (2)	38	22	16	42.1%	NO												
	R8	RESIDENTIAL	LKD	W13/F35 / INC (2)	38	22.5	15.5	40.8%	NO	100	99.8	0.1	0.2%	YES	99	29	70	28	29.3%	3.4%	YES
			LKD	W14/F35 / INC (2)	38.1	23.3	14.8	38.8%	NO												
			LKD	W15/F35	39.4	33.8	5.6	14.2%	YES												
			LKD	W16/F35	39.3	33.2	6.1	15.5%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W17/F35	39.3	32.9	6.4	16.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F35 / INC (2)	39.1	31.6	7.5	19.2%	YES	98.1	87.7	1.2	10.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F35 / INC (2)	39	31.1	7.9	20.3%	YES	98.4	98.3	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
			LKD	W20/F35 / INC (2)	38.9	30.5	8.4	21.6%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F35	38.7	32.3	6.4	16.5%	YES	97.4	97.4	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
			LKD	W22/F35	38.9	32	6.9	17.7%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F35	39	31.3	7.7	19.7%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F35	39.2	29.9	9.3	23.7%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W25/F35	39.3	29	10.3	26.2%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W26/F35	39.3	27.9	11.4	29.0%	YES												
			LKD	W27/F35	24.9	17.7	7.2	28.9%	NO												
			LKD	W28/F35	23.9	18	5.9	24.7%	NO												
F36	R1	RESIDENTIAL	LKD	W1/F36	32.7	32.7	0	0.0%	YES	100	99.7	0.1	0.3%	YES	67	22	41	12	38.8%	45.5%	YES
			LKD	W2/F36	33.4	33.4	0	0.0%	YES												
			LKD	W3/F36	38	22	16	42.1%	NO												
			LKD	W4/F36	38	21.7	16.3	42.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F36	38	22.1	15.9	41.8%	NO	99.7	87.8	1.2	11.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F36	38	22	16	42.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F36	38	21.9	16.1	42.4%	NO	97.3	48.3	4.6	50.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F36	37.9	22	15.9	42.0%	NO	98.8	43.9	6.1	55.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F36 / INC (2)	37.8	21.9	15.9	42.1%	NO	98.3	39.2	6.6	60.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F36 / INC (2)	38	21.9	16.1	42.4%	NO	93.9	47.4	4.8	49.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F36 / INC (2)	38.1	22.2	15.9	41.7%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F36 / INC (2)	38.1	22.7	15.4	40.4%	NO	100	99.8	0.1	0.2%	YES	99	29	70	28	29.3%	3.4%	YES
			LKD	W13/F36 / INC (2)	38.2	23.5	14.7	38.5%	NO												
			LKD	W14/F36	39.4	33.9	5.5	14.0%	YES												
			LKD	W15/F36	39.3	33.4	5.9	15.0%	YES												
			LKD	W16/F36	39.3	33.1	6.2	15.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F36	39.1	32	7.1	18.2%	YES	97	93.6	0.4	3.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F36	39	31.2	7.8	20.0%	YES	97.6	97.6	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F36	38.8	32.4	6.4	16.5%	YES	94.8	94.8	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R12	RESIDENTIAL	BEDROOM	W20/F36	39	31.4	7.6	19.5%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F36	39.2	30.1	9.1	23.2%	YES	99.9	99.9	0.0	0.0%	YES	82	29	63	24	23.2%	17.2%	YES
			LKD	W22/F36	39.3	29.2	10.1	25.7%	YES												
			LKD	W23/F36	39.3	28.1	11.2	28.5%	YES												
			LKD	W24/F36	25.2	18.1	7.1	28.2%	NO												
			LKD	W25/F36	24.2	18.5	5.7	23.6%	NO												
F37	R1	RESIDENTIAL	LKD	W1/F37	33.8	33.8	0	0.0%	YES	100	99.8	0.1	0.2%	YES	67	22	42	12	37.3%	45.5%	YES
			LKD	W2/F37	34	34	0	0.0%	YES												
			LKD	W3/F37	34.4	34.4	0	0.0%	YES												
			LKD	W4/F37	38.1	22.4	15.7	41.2%	NO												
			LKD	W5/F37	38.1	22.1	16	42.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F37	38.1	22.5	15.6	40.9%	NO	99.5	74.9	2.5	24.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R3	RESIDENTIAL	BEDROOM	W7/F37	38.1	22.2	15.9	41.7%	NO	96.5	52.9	4.1	45.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F37	37.9	22.1	15.8	41.7%	NO	98.4	39.7	6.5	59.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F37 / INC (2)	37.9	22.2	15.7	41.4%	NO	98.8	43.2	6.2	56.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F37 / INC (2)	38	22.2	15.8	41.6%	NO	95.9	49.8	4.8	48.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F37 / INC (2)	38.1	22.4	15.7	41.2%	NO	99.7	86.1	1.4	13.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F37 / INC (2)	38.1	22.5	15.6	40.9%	NO												
	R8	RESIDENTIAL	LKD	W13/F37 / INC (2)	38.2	23	15.2	39.8%	NO	100	99.8	0.1	0.2%	YES	99	29	70	28	29.3%	3.4%	YES
			LKD	W14/F37 / INC (2)	38.3	23.8	14.5	37.9%	NO												
			LKD	W15/F37	39.4	34.2	5.2	13.2%	YES												
			LKD	W16/F37	39.3	33.6	5.7	14.5%	YES												
			LKD	W17/F37	39.3	33.3	6	15.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F37 / INC (2)	39.1	32	7.1	18.2%	YES	98.1	88.8	1.1	9.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F37 / INC (2)	39	31.5	7.5	19.2%	YES	98.4	98.3	0.0	0.0%	YES	77	28	62	26	19.5%	7.1%	YES
			LKD	W20/F37 / INC (2)	38.9	31	7.9	20.3%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F37	38.7	32.7	6	15.5%	YES	97.4	97.4	0.0	0.0%	YES	77	28	60	26	22.1%	7.1%	YES
			LKD	W22/F37	38.9	32.4	6.5	16.7%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F37	39	31.6	7.4	19.0%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F37	39.2	30.3	8.9	22.7%	YES	99.9	99.9	0.0	0.0%	YES	82	29	64	24	22.0%	17.2%	YES
			LKD	W25/F37	39.3	29.4	9.9	25.2%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W26/F37	39.3	28.3	11	28.0%	YES												
			LKD	W27/F37	25.5	18.6	6.9	27.1%	NO												
			LKD	W28/F37	24.6	19	5.6	22.8%	NO												
F38	R1	RESIDENTIAL	LKD	W1/F38	35	35	0	0.0%	YES	100	99.8	0.1	0.2%	YES	67	22	43	12	35.8%	45.5%	YES
			LKD	W2/F38	35.4	35.4	0	0.0%	YES												
			LKD	W3/F38	38.3	22.9	15.4	40.2%	NO												
			LKD	W4/F38	38.2	22.5	15.7	41.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F38	38.2	22.8	15.4	40.3%	NO	99.7	88.2	1.2	11.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F38	38.2	22.7	15.5	40.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F38	38.2	22.6	15.6	40.8%	NO	97.3	49	4.6	49.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F38	38.1	22.6	15.5	40.7%	NO	98.8	44.7	6.0	54.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F38 / INC (2)	38	22.5	15.5	40.8%	NO	98.3	39.9	6.5	59.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F38 / INC (2)	38.2	22.6	15.6	40.8%	NO	93.9	48.3	4.7	48.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F38 / INC (2)	38.2	22.8	15.4	40.3%	NO	99.4	73.5	2.7	26.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F38 / INC (2)	38.3	23.3	15	39.2%	NO	100	99.8	0.1	0.2%	YES	99	29	71	28	28.3%	3.4%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W13/F38 / INC (2)	38.4	24.1	14.3	37.2%	NO												
			LKD	W14/F38	39.4	34.4	5	12.7%	YES												
			LKD	W15/F38	39.3	33.9	5.4	13.7%	YES												
			LKD	W16/F38	39.3	33.5	5.8	14.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F38	39.1	32.5	6.6	16.9%	YES	97	94.9	0.2	2.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F38	39	31.7	7.3	18.7%	YES	97.6	97.6	0.0	0.0%	YES	77	28	61	26	20.8%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F38	38.8	32.8	6	15.5%	YES	94.8	94.8	0.0	0.0%	YES	77	28	61	26	20.8%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F38	39	31.9	7.1	18.2%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F38	39.2	30.5	8.7	22.2%	YES	99.9	99.9	0.0	0.0%	YES	82	29	64	24	22.0%	17.2%	YES
			LKD	W22/F38	39.3	29.7	9.6	24.4%	YES												
			LKD	W23/F38	39.3	28.6	10.7	27.2%	YES												
			LKD	W24/F38	25.9	19.1	6.8	26.3%	NO												
			LKD	W25/F38	25	19.5	5.5	22.0%	NO												
F39	R1	RESIDENTIAL	LKD	W1/F39	36.1	36.1	0	0.0%	YES	100	99.8	0.1	0.2%	YES	67	22	43	12	35.8%	45.5%	YES
			LKD	W2/F39	36.2	36.2	0	0.0%	YES												
			LKD	W3/F39	36.4	36.4	0	0.0%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W4/F39	38.4	23.4	15	39.1%	NO												
			LKD	W5/F39	38.3	23	15.3	39.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F39	38.3	23.3	15	39.2%	NO	99.5	75.5	2.5	24.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F39	38.2	23	15.2	39.8%	NO	96.6	54.1	4.0	44.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F39	38.1	22.9	15.2	39.9%	NO	98.4	40.9	6.4	58.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F39 / INC (2)	38.1	23	15.1	39.6%	NO	98.8	44.6	6.0	54.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F39 / INC (2)	38.2	22.9	15.3	40.1%	NO	95.9	51.2	4.6	46.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F39 / INC (2)	38.3	23.1	15.2	39.7%	NO	99.7	86.1	1.4	13.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F39 / INC (2)	38.3	23.2	15.1	39.4%	NO												
	R8	RESIDENTIAL	LKD	W13/F39 / INC (2)	38.4	23.7	14.7	38.3%	NO	100	99.8	0.1	0.2%	YES	99	29	71	28	28.3%	3.4%	YES
			LKD	W14/F39 / INC (2)	38.5	24.5	14	36.4%	NO												
			LKD	W15/F39	39.4	34.6	4.8	12.2%	YES												
			LKD	W16/F39	39.3	34.2	5.1	13.0%	YES												
			LKD	W17/F39	39.3	33.8	5.5	14.0%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F39 / INC (2)	39.1	32.6	6.5	16.6%	YES	98.1	90.5	0.9	7.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F39 / INC (2)	39	32.1	6.9	17.7%	YES	98.4	98.3	0.0	0.0%	YES	77	28	63	26	18.2%	7.1%	YES
			LKD	W20/F39 / INC (2)	38.9	31.6	7.3	18.8%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F39	38.7	33.1	5.6	14.5%	YES	97.4	97.4	0.0	0.0%	YES	77	28	61	26	20.8%	7.1%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W22/F39	38.9	32.8	6.1	15.7%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F39	39	32.1	6.9	17.7%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F39	39.2	30.8	8.4	21.4%	YES	99.9	99.9	0.0	0.0%	YES	82	29	65	24	20.7%	17.2%	YES
			LKD	W25/F39	39.3	30	9.3	23.7%	YES												
			LKD	W26/F39	39.3	28.9	10.4	26.5%	YES												
			LKD	W27/F39	26.3	19.7	6.6	25.1%	NO												
			LKD	W28/F39	25.4	20.1	5.3	20.9%	NO												
F40	R1	RESIDENTIAL	LKD	W1/F40	37.2	37.2	0	0.0%	YES	100	99.8	0.1	0.2%	YES	67	22	45	12	32.8%	45.5%	YES
			LKD	W2/F40	37.4	37.4	0	0.0%	YES												
			LKD	W3/F40	38.5	24	14.5	37.7%	NO												
			LKD	W4/F40	38.4	23.6	14.8	38.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F40	38.4	23.8	14.6	38.0%	NO	99.7	88.9	1.1	10.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F40	38.4	23.6	14.8	38.5%	NO												
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W7/F40	38.3	23.5	14.8	38.6%	NO	97.3	50.7	4.4	47.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F40	38.3	23.5	14.8	38.6%	NO	98.8	46.1	5.9	53.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F40 / INC (2)	38.2	23.4	14.8	38.7%	NO	98.3	41.2	6.4	58.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F40 / INC (2)	38.3	23.4	14.9	38.9%	NO	93.9	49.9	4.6	46.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F40 / INC (2)	38.4	23.7	14.7	38.3%	NO	99.4	73.8	2.6	25.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F40 / INC (2)	38.5	24.2	14.3	37.1%	NO	100	99.8	0.1	0.2%	YES	99	29	71	28	28.3%	3.4%	YES
			LKD	W13/F40 / INC (2)	38.6	25	13.6	35.2%	NO												
			LKD	W14/F40	39.4	34.9	4.5	11.4%	YES												
			LKD	W15/F40	39.3	34.4	4.9	12.5%	YES												
			LKD	W16/F40	39.3	34.1	5.2	13.2%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F40	39.1	33.2	5.9	15.1%	YES	97	96.3	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F40	39	32.4	6.6	16.9%	YES	97.6	97.6	0.0	0.0%	YES	77	28	62	26	19.5%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F40	38.8	33.4	5.4	13.9%	YES	94.8	94.8	0.0	0.0%	YES	77	28	62	26	19.5%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F40	39	32.5	6.5	16.7%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F40	39.2	31.2	8	20.4%	YES	99.9	99.9	0.0	0.0%	YES	82	29	66	24	19.5%	17.2%	YES
			LKD	W22/F40	39.3	30.4	8.9	22.6%	YES												
			LKD	W23/F40	39.3	29.3	10	25.4%	YES												
			LKD	W24/F40	26.8	20.4	6.4	23.9%	NO												
			LKD	W25/F40	25.9	20.8	5.1	19.7%	YES												
F41	R1	RESIDENTIAL	LKD	W1/F41	37.8	37.8	0	0.0%	YES	100	99.8	0.1	0.2%	YES	67	22	47	12	29.9%	45.5%	YES
			LKD	W2/F41	37.9	37.9	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W3/F41	38	38	0	0.0%	YES												
			LKD	W4/F41	38.6	24.7	13.9	36.0%	NO												
			LKD	W5/F41	38.5	24.2	14.3	37.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F41	38.5	24.4	14.1	36.6%	NO	99.5	76.4	2.4	23.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F41	38.4	24.1	14.3	37.2%	NO	96.6	56.6	3.8	41.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F41	38.2	23.9	14.3	37.4%	NO	98.4	42.7	6.2	56.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F41 / INC (2)	38.3	24	14.3	37.3%	NO	98.8	46.8	5.8	52.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F41 / INC (2)	38.4	24	14.4	37.5%	NO	95.9	53.4	4.4	44.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F41 / INC (2)	38.5	24.1	14.4	37.4%	NO	99.7	86.1	1.4	13.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F41 / INC (2)	38.5	24.3	14.2	36.9%	NO												
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R8	RESIDENTIAL	LKD	W13/F41 / INC (2)	38.6	24.7	13.9	36.0%	NO	100	99.8	0.1	0.2%	YES	99	29	73	28	26.3%	3.4%	YES
			LKD	W14/F41 / INC (2)	38.6	25.5	13.1	33.9%	NO												
			LKD	W15/F41	39.4	35.2	4.2	10.7%	YES												
			LKD	W16/F41	39.3	34.8	4.5	11.5%	YES												
			LKD	W17/F41	39.3	34.4	4.9	12.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F41 / INC (2)	39.1	33.3	5.8	14.8%	YES	98.1	93.2	0.6	4.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F41 / INC (2)	39	32.9	6.1	15.6%	YES	98.4	98.3	0.0	0.0%	YES	77	28	64	26	16.9%	7.1%	YES
			LKD	W20/F41 / INC (2)	38.9	32.4	6.5	16.7%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F41	38.7	33.7	5	12.9%	YES	97.4	97.4	0.0	0.0%	YES	77	28	62	26	19.5%	7.1%	YES
			LKD	W22/F41	38.9	33.5	5.4	13.9%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F41	39	32.8	6.2	15.9%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F41	39.2	31.6	7.6	19.4%	YES	99.9	99.9	0.0	0.0%	YES	82	29	66	24	19.5%	17.2%	YES
			LKD	W25/F41	39.3	30.8	8.5	21.6%	YES												
			LKD	W26/F41	39.3	29.8	9.5	24.2%	YES												
			LKD	W27/F41	27.3	21.2	6.1	22.3%	NO												
			LKD	W28/F41	26.4	21.6	4.8	18.2%	YES												
F42	R1	RESIDENTIAL	LKD	W1/F42	38	38	0	0.0%	YES	100	99.8	0.1	0.2%	YES	67	22	49	12	26.9%	45.5%	YES
			LKD	W2/F42	38.1	38.1	0	0.0%	YES												
			LKD	W3/F42	38.7	25.5	13.2	34.1%	NO												
			LKD	W4/F42	38.6	25	13.6	35.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W5/F42	38.6	25.1	13.5	35.0%	NO	99.7	89.1	1.1	10.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F42	38.6	24.9	13.7	35.5%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F42	38.5	24.8	13.7	35.6%	NO	97.3	53.5	4.1	45.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F42	38.4	24.8	13.6	35.4%	NO	98.8	48.5	5.6	51.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R5	RESIDENTIAL	BEDROOM	W9/F42 / INC (2)	38.4	24.7	13.7	35.7%	NO	98.3	43.5	6.1	55.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F42 / INC (2)	38.5	24.7	13.8	35.8%	NO	93.9	52.6	4.3	44.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F42 / INC (2)	38.6	24.9	13.7	35.5%	NO	99.4	75.2	2.5	24.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F42 / INC (2)	38.7	25.4	13.3	34.4%	NO	100	99.8	0.1	0.2%	YES	99	29	74	28	25.3%	3.4%	YES
			LKD	W13/F42 / INC (2)	38.7	26.2	12.5	32.3%	NO												
			LKD	W14/F42	39.4	35.6	3.8	9.6%	YES												
			LKD	W15/F42	39.3	35.1	4.2	10.7%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W16/F42	39.3	34.8	4.5	11.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F42	39.1	34	5.1	13.0%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F42	39	33.2	5.8	14.9%	YES	97.6	97.6	0.0	0.0%	YES	77	28	65	26	15.6%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F42	38.8	34	4.8	12.4%	YES	94.8	94.8	0.0	0.0%	YES	77	28	64	26	16.9%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F42	39	33.2	5.8	14.9%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F42	39.2	32.1	7.1	18.1%	YES	99.9	99.9	0.0	0.0%	YES	82	29	69	24	15.9%	17.2%	YES
			LKD	W22/F42	39.3	31.3	8	20.4%	YES												
			LKD	W23/F42	39.3	30.3	9	22.9%	YES												
			LKD	W24/F42	27.8	22.1	5.7	20.5%	NO												
			LKD	W25/F42	26.9	22.4	4.5	16.7%	YES												
F43	R1	RESIDENTIAL	LKD	W1/F43	38.2	38.2	0	0.0%	YES	100	99.8	0.1	0.2%	YES	67	22	50	12	25.4%	45.5%	YES
			LKD	W2/F43	38.3	38.3	0	0.0%	YES												
			LKD	W3/F43	38.3	38.3	0	0.0%	YES												
			LKD	W4/F43	38.7	26.5	12.2	31.5%	NO												
			LKD	W5/F43	38.7	25.9	12.8	33.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W6/F43	38.7	26	12.7	32.8%	NO	99.5	77.8	2.2	21.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F43	38.6	25.6	13	33.7%	NO	96.5	59.9	3.5	37.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F43	38.4	25.4	13	33.9%	NO	98.4	46	5.8	53.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F43 / INC (2)	38.5	25.5	13	33.8%	NO	98.8	50.5	5.4	48.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F43 / INC (2)	38.6	25.5	13.1	33.9%	NO	95.9	57.1	4.0	40.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F43 / INC (2)	38.7	25.6	13.1	33.9%	NO	99.7	86.6	1.4	13.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F43 / INC (2)	38.7	25.7	13	33.6%	NO												
	R8	RESIDENTIAL	LKD	W13/F43 / INC (2)	38.8	26.2	12.6	32.5%	NO	100	99.8	0.1	0.2%	YES	99	29	75	28	24.2%	3.4%	YES
			LKD	W14/F43 / INC (2)	38.8	27	11.8	30.4%	YES												
			LKD	W15/F43	39.4	35.9	3.5	8.9%	YES												
			LKD	W16/F43	39.3	35.5	3.8	9.7%	YES												
			LKD	W17/F43	39.3	35.2	4.1	10.4%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R9	RESIDENTIAL	BEDROOM	W18/F43 / INC (2)	39.1	34.2	4.9	12.5%	YES	98.1	96.1	0.2	2.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F43 / INC (2)	39	33.8	5.2	13.3%	YES	98.4	98.3	0.0	0.0%	YES	77	28	66	26	14.3%	7.1%	YES
			LKD	W20/F43 / INC (2)	38.9	33.3	5.6	14.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F43	38.7	34.4	4.3	11.1%	YES	97.4	97.4	0.0	0.0%	YES	77	28	66	26	14.3%	7.1%	YES
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W22/F43	38.9	34.2	4.7	12.1%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F43	39	33.7	5.3	13.6%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F43	39.2	32.6	6.6	16.8%	YES	99.9	99.9	0.0	0.0%	YES	82	29	69	24	15.9%	17.2%	YES
			LKD	W25/F43	39.3	31.9	7.4	18.8%	YES												
			LKD	W26/F43	39.3	30.9	8.4	21.4%	YES												
			LKD	W27/F43	28.5	23.1	5.4	18.9%	YES												
			LKD	W28/F43	27.6	23.3	4.3	15.6%	YES												
F44	R1	RESIDENTIAL	LKD	W1/F44	38.4	38.4	0	0.0%	YES	100	99.8	0.1	0.2%	YES	67	22	53	12	20.9%	45.5%	YES
			LKD	W2/F44	38.5	38.5	0	0.0%	YES												
			LKD	W3/F44	38.8	27.5	11.3	29.1%	YES												
			LKD	W4/F44	38.8	27	11.8	30.4%	YES												
	R2	RESIDENTIAL	BEDROOM	W5/F44	38.8	26.9	11.9	30.7%	NO	99.7	89.7	1.0	10.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F44	38.7	26.8	11.9	30.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W7/F44	38.7	26.6	12.1	31.3%	NO	97.3	58.8	3.6	39.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F44	38.6	26.5	12.1	31.3%	NO	98.8	53.1	5.1	46.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F44 / INC (2)	38.6	26.5	12.1	31.3%	NO	98.3	48.4	5.6	50.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F44 / INC (2)	38.7	26.5	12.2	31.5%	NO	93.9	57.5	3.8	38.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F44 / INC (2)	38.8	26.7	12.1	31.2%	NO	99.4	78.8	2.1	20.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F44 / INC (2)	38.9	27.2	11.7	30.1%	YES	100	99.8	0.1	0.2%	YES	99	29	79	28	20.2%	3.4%	YES
			LKD	W13/F44 / INC (2)	38.9	27.9	11	28.3%	YES												
			LKD	W14/F44	39.4	36.3	3.1	7.9%	YES												
			LKD	W15/F44	39.3	35.9	3.4	8.7%	YES												
			LKD	W16/F44	39.3	35.6	3.7	9.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F44	39.1	34.9	4.2	10.7%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F44	39	34.2	4.8	12.3%	YES	97.6	97.6	0.0	0.0%	YES	77	28	66	26	14.3%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F44	38.8	34.8	4	10.3%	YES	94.8	94.8	0.0	0.0%	YES	77	28	65	26	15.6%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F44	39	34.2	4.8	12.3%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F44	39.2	33.2	6	15.3%	YES	99.9	99.9	0.0	0.0%	YES	82	29	72	24	12.2%	17.2%	YES
			LKD	W22/F44	39.3	32.5	6.8	17.3%	YES												
			LKD	W23/F44	39.3	31.6	7.7	19.6%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W24/F44	29.2	24.2	5	17.1%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W25/F44	28.3	24.4	3.9	13.8%	YES												
F45	R1	RESIDENTIAL	LKD	W1/F45	38.6	38.6	0	0.0%	YES	100	99.9	0.1	0.1%	YES	67	22	55	12	17.9%	45.5%	YES
			LKD	W2/F45	38.6	38.6	0	0.0%	YES												
			LKD	W3/F45	38.7	38.7	0	0.0%	YES												
			LKD	W4/F45	38.9	28.8	10.1	26.0%	YES												
			LKD	W5/F45	38.9	28.2	10.7	27.5%	YES												
	R2	RESIDENTIAL	BEDROOM	W6/F45	38.9	28.1	10.8	27.8%	YES	99.5	82.7	1.7	16.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F45	38.8	27.8	11	28.4%	YES	96.5	67.8	2.7	29.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F45	38.6	27.6	11	28.5%	YES	98.4	52.9	5.1	46.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F45 / INC (2)	38.7	27.7	11	28.4%	YES	98.8	57.3	4.6	42.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F45 / INC (2)	38.8	27.6	11.2	28.9%	YES	95.9	65.1	3.2	32.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F45 / INC (2)	38.8	27.7	11.1	28.6%	YES	99.7	89.8	1.0	10.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F45 / INC (2)	38.9	27.8	11.1	28.5%	YES												
	R8	RESIDENTIAL	LKD	W13/F45 / INC (2)	38.9	28.3	10.6	27.2%	YES	100	99.8	0.1	0.2%	YES	99	29	80	28	19.2%	3.4%	YES
			LKD	W14/F45 / INC (2)	39	29	10	25.6%	YES												
			LKD	W15/F45	39.4	36.7	2.7	6.9%	YES												
			LKD	W16/F45	39.3	36.3	3	7.6%	YES												
			LKD	W17/F45	39.3	36.1	3.2	8.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F45 / INC (2)	39.1	35.2	3.9	10.0%	YES	98.1	97.8	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F45 / INC (2)	39	34.9	4.1	10.5%	YES	98.4	98.3	0.0	0.0%	YES	77	28	70	26	9.1%	7.1%	YES
			LKD	W20/F45 / INC (2)	38.9	34.5	4.4	11.3%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F45	38.7	35.3	3.4	8.8%	YES	97.4	97.4	0.0	0.0%	YES	77	28	70	26	9.1%	7.1%	YES
			LKD	W22/F45	38.9	35.2	3.7	9.5%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F45	39	34.7	4.3	11.0%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F45	39.2	33.8	5.4	13.8%	YES	99.9	99.9	0.0	0.0%	YES	82	29	73	25	11.0%	13.8%	YES
			LKD	W25/F45	39.3	33.2	6.1	15.5%	YES												
			LKD	W26/F45	39.3	32.3	7	17.8%	YES												
			LKD	W27/F45	30	25.5	4.5	15.0%	YES												
			LKD	W28/F45	29.1	25.7	3.4	11.7%	YES												
F46	R1	RESIDENTIAL	LKD	W1/F46	38.7	38.7	0	0.0%	YES	100	99.9	0.1	0.1%	YES	67	22	56	12	16.4%	45.5%	YES
			LKD	W2/F46	38.9	38.9	0	0.0%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W3/F46	39	30.2	8.8	22.6%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W4/F46	39	29.6	9.4	24.1%	YES												
	R2	RESIDENTIAL	BEDROOM	W5/F46	39	29.5	9.5	24.4%	YES	99.7	94	0.6	5.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F46	38.9	29.3	9.6	24.7%	YES												
	R3	RESIDENTIAL	BEDROOM	W7/F46	38.9	29.1	9.8	25.2%	YES	97.3	72.2	2.4	25.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F46	38.8	29.1	9.7	25.0%	YES	98.8	63.2	4.0	36.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F46 / INC (2)	38.8	29	9.8	25.3%	YES	98.3	59.6	4.3	39.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F46 / INC (2)	38.9	29	9.9	25.4%	YES	93.9	68.9	2.6	26.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F46 / INC (2)	39	29.2	9.8	25.1%	YES	99.4	87.8	1.2	11.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F46 / INC (2)	39	29.6	9.4	24.1%	YES	100	99.8	0.1	0.2%	YES	99	29	82	28	17.2%	3.4%	YES
			LKD	W13/F46 / INC (2)	39.1	30.3	8.8	22.5%	YES												
			LKD	W14/F46	39.4	37	2.4	6.1%	YES												
			LKD	W15/F46	39.3	36.7	2.6	6.6%	YES												
			LKD	W16/F46	39.3	36.5	2.8	7.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F46	39.1	35.9	3.2	8.2%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F46	39	35.4	3.6	9.2%	YES	97.6	97.6	0.0	0.0%	YES	77	28	70	26	9.1%	7.1%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F46	38.8	35.8	3	7.7%	YES	94.8	94.8	0.0	0.0%	YES	77	28	70	26	9.1%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F46	39	35.3	3.7	9.5%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F46	39.2	34.5	4.7	12.0%	YES	99.9	99.9	0.0	0.0%	YES	82	29	75	25	8.5%	13.8%	YES
			LKD	W22/F46	39.3	34	5.3	13.5%	YES												
			LKD	W23/F46	39.3	33.2	6.1	15.5%	YES												
			LKD	W24/F46	30.9	27	3.9	12.6%	YES												
			LKD	W25/F46	30.1	27.1	3	10.0%	YES												
F47	R1	RESIDENTIAL	LKD	W1/F47	38.9	38.9	0	0.0%	YES	100	99.9	0.1	0.1%	YES	67	22	57	12	14.9%	45.5%	YES
			LKD	W2/F47	39	39	0	0.0%	YES												
			LKD	W3/F47	39	39	0	0.0%	YES												
			LKD	W4/F47	39.1	31.7	7.4	18.9%	YES												
			LKD	W5/F47	39.1	31.2	7.9	20.2%	YES												
	R2	RESIDENTIAL	BEDROOM	W6/F47	39	31.1	7.9	20.3%	YES	99.5	96.7	0.3	2.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F47	38.9	30.7	8.2	21.1%	YES	96.5	87.4	0.9	9.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F47	38.7	30.5	8.2	21.2%	YES	98.4	69	3.3	29.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R5	RESIDENTIAL	BEDROOM	W9/F47 / INC (2)	38.8	30.6	8.2	21.1%	YES	98.8	74.3	2.7	24.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F47 / INC (2)	38.9	30.6	8.3	21.3%	YES	95.9	84.2	1.2	12.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F47 / INC (2)	39	30.7	8.3	21.3%	YES	99.7	99.1	0.1	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F47 / INC (2)	39	30.8	8.2	21.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R8	RESIDENTIAL	LKD	W13/F47 / INC (2)	39.1	31.2	7.9	20.2%	YES	100	99.8	0.1	0.2%	YES	99	29	87	28	12.1%	3.4%	YES
			LKD	W14/F47 / INC (2)	39.1	31.8	7.3	18.7%	YES												
			LKD	W15/F47	39.4	37.5	1.9	4.8%	YES												
			LKD	W16/F47	39.3	37.2	2.1	5.3%	YES												
			LKD	W17/F47	39.3	37	2.3	5.9%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F47 / INC (2)	39.1	36.3	2.8	7.2%	YES	98.1	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F47 / INC (2)	39	36	3	7.7%	YES	98.4	98.4	0.0	0.0%	YES	77	28	72	26	6.5%	7.1%	YES
			LKD	W20/F47 / INC (2)	38.9	35.7	3.2	8.2%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F47	38.7	36.3	2.4	6.2%	YES	97.4	97.4	0.0	0.0%	YES	77	28	72	26	6.5%	7.1%	YES
			LKD	W22/F47	38.9	36.2	2.7	6.9%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F47	39	35.9	3.1	7.9%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F47	39.2	35.3	3.9	9.9%	YES	99.9	99.9	0.0	0.0%	YES	82	29	76	25	7.3%	13.8%	YES
			LKD	W25/F47	39.3	34.8	4.5	11.5%	YES												
			LKD	W26/F47	39.3	34.1	5.2	13.2%	YES												
			LKD	W27/F47	32	28.6	3.4	10.6%	YES												
			LKD	W28/F47	31.2	28.7	2.5	8.0%	YES												
F48	R1	RESIDENTIAL	LKD	W1/F48	39	39	0	0.0%	YES	100	99.9	0.1	0.1%	YES	67	22	59	14	11.9%	36.4%	YES
			LKD	W2/F48	39.1	39.1	0	0.0%	YES												
			LKD	W3/F48	39.2	33.4	5.8	14.8%	YES												
			LKD	W4/F48	39.2	33	6.2	15.8%	YES												
	R2	RESIDENTIAL	BEDROOM	W5/F48	39.1	32.8	6.3	16.1%	YES	99.7	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F48	39.1	32.7	6.4	16.4%	YES												
	R3	RESIDENTIAL	BEDROOM	W7/F48	39	32.5	6.5	16.7%	YES	97.3	96.9	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F48	38.9	32.4	6.5	16.7%	YES	98.8	84.6	1.6	14.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F48 / INC (2)	38.9	32.4	6.5	16.7%	YES	98.3	82.2	1.8	16.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F48 / INC (2)	39	32.4	6.6	16.9%	YES	93.9	92.6	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F48 / INC (2)	39.1	32.6	6.5	16.6%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R8	RESIDENTIAL	LKD	W12/F48 / INC (2)	39.2	32.9	6.3	16.1%	YES	100	99.8	0.1	0.2%	YES	99	29	91	28	8.1%	3.4%	YES
			LKD	W13/F48 / INC (2)	39.2	33.4	5.8	14.8%	YES												
			LKD	W14/F48	39.4	37.9	1.5	3.8%	YES												
			LKD	W15/F48	39.3	37.6	1.7	4.3%	YES												
			LKD	W16/F48	39.3	37.5	1.8	4.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F48	39.1	37	2.1	5.4%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F48	39	36.6	2.4	6.2%	YES	97.6	97.6	0.0	0.0%	YES	77	28	74	27	3.9%	3.6%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R11 (3)	RESIDENTIAL	LKD	W19/F48	38.8	36.8	2	5.2%	YES	94.8	94.8	0.0	0.0%	YES	77	28	73	26	5.2%	7.1%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F48	39	36.5	2.5	6.4%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F48	39.2	36.1	3.1	7.9%	YES	99.9	99.9	0.0	0.0%	YES	82	29	78	25	4.9%	13.8%	YES
			LKD	W22/F48	39.3	35.7	3.6	9.2%	YES												
			LKD	W23/F48	39.3	35.2	4.1	10.4%	YES												
			LKD	W24/F48	33.1	30.4	2.7	8.2%	YES												
			LKD	W25/F48	32.4	30.4	2	6.2%	YES												
F49	R1	RESIDENTIAL	LKD	W1/F49	39	39	0	0.0%	YES	100	99.9	0.0	0.1%	YES	67	22	62	17	7.5%	22.7%	YES
			LKD	W2/F49	39.1	39.1	0	0.0%	YES												
			LKD	W3/F49	39.2	39.2	0	0.0%	YES												
			LKD	W4/F49	39.3	35.2	4.1	10.4%	YES												
			LKD	W5/F49	39.2	34.8	4.4	11.2%	YES												
	R2	RESIDENTIAL	BEDROOM	W6/F49	39.2	34.7	4.5	11.5%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F49	39.1	34.5	4.6	11.8%	YES	96.5	96.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F49	38.9	34.2	4.7	12.1%	YES	98.4	98.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F49 / INC (2)	39	34.3	4.7	12.1%	YES	98.8	98.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F49 / INC (2)	39.1	34.3	4.8	12.3%	YES	95.9	95.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F49 / INC (2)	39.2	34.4	4.8	12.2%	YES	99.7	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F49 / INC (2)	39.2	34.5	4.7	12.0%	YES												
	R8	RESIDENTIAL	LKD	W13/F49 / INC (2)	39.3	34.8	4.5	11.5%	YES	100	99.9	0.1	0.1%	YES	99	29	94	29	5.1%	0.0%	YES
			LKD	W14/F49 / INC (2)	39.3	35.2	4.1	10.4%	YES												
			LKD	W15/F49	39.4	38.2	1.2	3.0%	YES												
			LKD	W16/F49	39.3	38.1	1.2	3.1%	YES												
			LKD	W17/F49	39.3	37.9	1.4	3.6%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R9	RESIDENTIAL	BEDROOM	W18/F49 / INC (2)	39.1	37.5	1.6	4.1%	YES	98.1	98.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F49 / INC (2)	39	37.3	1.7	4.4%	YES	98.4	98.4	0.0	0.0%	YES	77	28	74	27	3.9%	3.6%	YES
			LKD	W20/F49 / INC (2)	38.9	37	1.9	4.9%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F49	38.7	37.3	1.4	3.6%	YES	97.4	97.4	0.0	0.0%	YES	77	28	74	27	3.9%	3.6%	YES
			LKD	W22/F49	38.9	37.3	1.6	4.1%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F49	39	37.2	1.8	4.6%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F49	39.2	36.9	2.3	5.9%	YES	99.9	99.9	0.0	0.0%	YES	82	29	80	27	2.4%	6.9%	YES
			LKD	W25/F49	39.3	36.6	2.7	6.9%	YES												
			LKD	W26/F49	39.3	36.2	3.1	7.9%	YES												
			LKD	W27/F49	34.3	32.3	2	5.8%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W28/F49	33.7	32.2	1.5	4.5%	YES												
F50	R1	RESIDENTIAL	LKD	W1/F50	39.1	39.1	0	0.0%	YES	100	100	0.0	0.0%	YES	67	22	65	20	3.0%	9.1%	YES
			LKD	W2/F50	39.2	39.2	0	0.0%	YES												
			LKD	W3/F50	39.4	36.9	2.5	6.3%	YES												
			LKD	W4/F50	39.3	36.7	2.6	6.6%	YES												
	R2	RESIDENTIAL	BEDROOM	W5/F50	39.3	36.6	2.7	6.9%	YES	99.7	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F50	39.2	36.5	2.7	6.9%	YES												
	R3	RESIDENTIAL	BEDROOM	W7/F50	39.2	36.4	2.8	7.1%	YES	97.3	97.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F50	39.1	36.3	2.8	7.2%	YES	98.8	98.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W9/F50 / INC (2)	39.1	36.3	2.8	7.2%	YES	98.3	98.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F50 / INC (2)	39.2	36.3	2.9	7.4%	YES	93.9	93.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F50 / INC (2)	39.3	36.5	2.8	7.1%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W12/F50 / INC (2)	39.3	36.6	2.7	6.9%	YES	100	100	0.0	0.0%	YES	99	29	98	29	1.0%	0.0%	YES
			LKD	W13/F50 / INC (2)	39.4	36.9	2.5	6.3%	YES												
			LKD	W14/F50	39.4	38.6	0.8	2.0%	YES												
			LKD	W15/F50	39.3	38.5	0.8	2.0%	YES												
			LKD	W16/F50	39.3	38.4	0.9	2.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W17/F50	39.1	38.1	1	2.6%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W18/F50	39	37.8	1.2	3.1%	YES	97.6	97.6	0.0	0.0%	YES	77	28	75	27	2.6%	3.6%	YES
	R11 (3)	RESIDENTIAL	LKD	W19/F50	38.8	37.8	1	2.6%	YES	94.8	94.8	0.0	0.0%	YES	77	28	75	27	2.6%	3.6%	YES
	R12	RESIDENTIAL	BEDROOM	W20/F50	39	37.8	1.2	3.1%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE SOUTH TOWER (CONTINUED)																					
	R13	RESIDENTIAL	LKD	W21/F50	39.2	37.7	1.5	3.8%	YES	100	100	0.0	0.0%	YES	82	29	80	27	2.4%	6.9%	YES
			LKD	W22/F50	39.3	37.5	1.8	4.6%	YES												
			LKD	W23/F50	39.3	37.3	2	5.1%	YES												
			LKD	W24/F50	35.6	34.2	1.4	3.9%	YES												
			LKD	W25/F50	35.1	34.1	1	2.8%	YES												
F51	R1	RESIDENTIAL	LKD	W1/F51	39.1	39.1	0	0.0%	YES	100	100	0.0	0.0%	YES	67	22	67	22	0.0%	0.0%	YES
			LKD	W2/F51	39.2	39.2	0	0.0%	YES												
			LKD	W3/F51	39.3	39.3	0	0.0%	YES												
			LKD	W4/F51	39.4	38.5	0.9	2.3%	YES												
			LKD	W5/F51	39.4	38.4	1	2.5%	YES												
	R2	RESIDENTIAL	BEDROOM	W6/F51	39.3	38.3	1	2.5%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W7/F51	39.2	38.2	1	2.6%	YES	96.6	96.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W8/F51	39.1	38.1	1	2.6%	YES	98.4	98.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R5	RESIDENTIAL	BEDROOM	W9/F51 / INC (2)	39.1	38.1	1	2.6%	YES	98.8	98.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W10/F51 / INC (2)	39.2	38.2	1	2.6%	YES	95.9	95.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W11/F51 / INC (2)	39.3	38.3	1	2.5%	YES	99.7	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W12/F51 / INC (2)	39.3	38.3	1	2.5%	YES												
	R8	RESIDENTIAL	LKD	W13/F51 / INC (2)	39.4	38.4	1	2.5%	YES	100	100	0.0	0.0%	YES	99	29	99	29	0.0%	0.0%	YES
			LKD	W14/F51 / INC (2)	39.4	38.5	0.9	2.3%	YES												
			LKD	W15/F51	39.4	39	0.4	1.0%	YES												
			LKD	W16/F51	39.3	38.9	0.4	1.0%	YES												
			LKD	W17/F51	39.3	38.8	0.5	1.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W18/F51 / INC (2)	39.1	38.5	0.6	1.5%	YES	98.1	98.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F51 / INC (2)	39	38.4	0.6	1.5%	YES	98.4	98.4	0.0	0.0%	YES	77	28	77	28	0.0%	0.0%	YES
			LKD	W20/F51 / INC (2)	38.9	38.2	0.7	1.8%	YES												
	R11 (3)	RESIDENTIAL	LKD	W21/F51	38.7	38.2	0.5	1.3%	YES	97.4	97.4	0.0	0.0%	YES	77	28	77	28	0.0%	0.0%	YES
			LKD	W22/F51	38.9	38.3	0.6	1.5%	YES												
	R12	RESIDENTIAL	BEDROOM	W23/F51	39	38.4	0.6	1.5%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W24/F51	39.2	38.4	0.8	2.0%	YES	100	100	0.0	0.0%	YES	82	29	80	27	2.4%	6.9%	YES
			LKD	W25/F51	39.3	38.4	0.9	2.3%	YES												
			LKD	W26/F51	39.3	38.3	1	2.5%	YES												
DEANSGATE SOUTH TOWER (CONTINUED)																					
			LKD	W27/F51	36.8	36.1	0.7	1.9%	YES												
			LKD	W28/F51	36.4	35.9	0.5	1.4%	YES												
DEANSGATE EAST TOWER																					
F02	R1	RESIDENTIAL	LKD	W1/F02	5	5	0	0.0%	YES	99.1	98.8	0.1	0.3%	YES	59	20	37	11	37.3%	45.0%	YES
			LKD	W2/F02	5.4	5.4	0	0.0%	YES												
			LKD	W3/F02	5.6	5.6	0	0.0%	YES												
			LKD	W26/F02 / INC (2)	30.5	16.9	13.6	44.6%	NO												
			LKD	W27/F02 / INC (2)	28.9	16.3	12.6	43.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F02	6.3	6.3	0	0.0%	YES	44.6	44.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F02	6.7	6.7	0	0.0%	YES	45.4	45.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F02	6.9	6.9	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F02	6.4	6.4	0	0.0%	YES	32.8	32.8	0.0	0.0%	YES	13	5	13	5	0.0%	0.0%	YES
			LKD	W8/F02	6.6	6.6	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F02	7.5	7.4	0.1	1.3%	YES	73.1	72.1	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F02	8.3	7.6	0.7	8.4%	YES	100	99.9	0.0	0.1%	YES	19	6	17	6	10.5%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W11/F02	8.6	7.5	1.1	12.8%	YES												
			LKD	W12/F02	8.8	7.6	1.2	13.6%	YES												
			LKD	W13/F02	24.9	24.9	0	0.0%	YES												
			LKD	W14/F02	24.7	24.7	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F02	25.6	25.3	0.3	1.2%	YES	100	98.4	0.6	1.6%	YES	68	24	43	12	36.8%	50.0%	YES
			LKD	W16/F02	25.3	25	0.3	1.2%	YES												
			LKD	W17/F02	33.3	17.4	15.9	47.7%	NO												
			LKD	W18/F02	33.2	17.2	16	48.2%	NO												
	R8	RESIDENTIAL	BEDROOM	W19/F02	33	17	16	48.5%	NO	98.7	87.1	1.2	11.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W20/F02	32.8	16.9	15.9	48.5%	NO												
	R9	RESIDENTIAL	BEDROOM	W21/F02	32.4	16.8	15.6	48.1%	NO	93.3	62	3.0	33.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F02	31.8	16.6	15.2	47.8%	NO	94.7	67.2	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F02 / INC (2)	32.9	17.3	15.6	47.4%	NO	97.2	57.7	4.4	40.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F02 / INC (2)	32.4	17.3	15.1	46.6%	NO	91.5	63	2.9	31.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F02 / INC (2)	31.7	17.2	14.5	45.7%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
F03	R1	RESIDENTIAL	LKD	W1/F03	5.2	5.2	0	0.0%	YES	99.1	98.8	0.1	0.3%	YES	60	20	38	11	36.7%	45.0%	YES
			LKD	W2/F03	5.6	5.6	0	0.0%	YES												
			LKD	W3/F03	5.8	5.8	0	0.0%	YES												
			LKD	W27/F03 / INC (2)	30.9	17.1	13.8	44.7%	NO												
			LKD	W28/F03 / INC (2)	29.2	16.5	12.7	43.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F03	6.5	6.5	0	0.0%	YES	44.8	44.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F03	6.9	6.9	0	0.0%	YES	46.5	46.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F03	7.1	7.1	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F03	6.6	6.6	0	0.0%	YES	33.4	33.4	0.0	0.0%	YES	13	5	13	5	0.0%	0.0%	YES
			LKD	W8/F03	6.8	6.8	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F03	7.6	7.6	0	0.0%	YES	73.5	72.5	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F03	8.5	7.7	0.8	9.4%	YES	100	99.9	0.0	0.1%	YES	19	6	17	6	10.5%	0.0%	YES
			LKD	W11/F03	8.7	7.7	1	11.5%	YES												
			LKD	W12/F03	9	7.8	1.2	13.3%	YES												
			LKD	W13/F03	26.2	26.2	0	0.0%	YES												
			LKD	W14/F03	26.2	26.2	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F03	27.9	27.6	0.3	1.1%	YES	100	99.5	0.2	0.5%	YES	70	25	45	13	35.7%	48.0%	YES
			LKD	W16/F03	27.9	27.6	0.3	1.1%	YES												
			LKD	W17/F03	27.7	27.4	0.3	1.1%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W18/F03	33.8	17.8	16	47.3%	NO												
			LKD	W19/F03	33.7	17.6	16.1	47.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F03	33.3	17.3	16	48.0%	NO	98.7	74.7	2.5	24.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F03	32.8	17.1	15.7	47.9%	NO	95.8	53.1	4.0	44.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F03	32.1	16.8	15.3	47.7%	NO	97.5	50.8	5.2	47.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F03 / INC (2)	33.3	17.6	15.7	47.1%	NO	98.7	46.6	5.8	52.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F03 / INC (2)	32.9	17.6	15.3	46.5%	NO	95.5	56.1	4.1	41.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F03 / INC (2)	32.3	17.5	14.8	45.8%	NO	99.5	93.3	0.6	6.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F03 / INC (2)	31.9	17.4	14.5	45.5%	NO												
F04	R1	RESIDENTIAL	LKD	W1/F04	5.3	5.3	0	0.0%	YES	99.1	98.9	0.1	0.2%	YES	60	20	38	11	36.7%	45.0%	YES
			LKD	W2/F04	5.7	5.7	0	0.0%	YES												
			LKD	W3/F04	6	6	0	0.0%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W27/F04 / INC (2)	31.1	17.3	13.8	44.4%	NO												
			LKD	W28/F04 / INC (2)	29.4	16.6	12.8	43.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F04	6.8	6.8	0	0.0%	YES	45.8	45.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F04	7.1	7.1	0	0.0%	YES	46.8	46.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F04	7.3	7.3	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F04	6.8	6.8	0	0.0%	YES	34.2	34.2	0.0	0.0%	YES	13	5	13	5	0.0%	0.0%	YES
			LKD	W8/F04	6.9	6.9	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F04	7.8	7.8	0	0.0%	YES	74.1	73.1	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F04	8.7	7.9	0.8	9.2%	YES	100	99.9	0.0	0.1%	YES	19	6	17	6	10.5%	0.0%	YES
			LKD	W11/F04	8.9	7.9	1	11.2%	YES												
			LKD	W12/F04	9.1	7.9	1.2	13.2%	YES												
			LKD	W13/F04	27.6	27.6	0	0.0%	YES												
			LKD	W14/F04	27.7	27.7	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F04	30.1	29.8	0.3	1.0%	YES	100	100	0.0	0.0%	YES	72	25	47	13	34.7%	48.0%	YES
			LKD	W16/F04	30.1	29.8	0.3	1.0%	YES												
			LKD	W17/F04	30.1	29.7	0.4	1.3%	YES												
			LKD	W18/F04	34.3	18.2	16.1	46.9%	NO												
			LKD	W19/F04	34.1	18	16.1	47.2%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F04	33.6	17.6	16	47.6%	NO	98.7	74.7	2.5	24.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F04	33.1	17.4	15.7	47.4%	NO	95.8	53	4.1	44.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F04	32.4	17	15.4	47.5%	NO	97.5	50.8	5.2	47.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F04 / INC (2)	33.6	18	15.6	46.4%	NO	98.7	46.5	5.8	52.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R12	RESIDENTIAL	BEDROOM	W24/F04 / INC (2)	33.2	17.9	15.3	46.1%	NO	95.5	56	4.1	41.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F04 / INC (2)	32.6	17.7	14.9	45.7%	NO	99.5	93.4	0.6	6.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F04 / INC (2)	32.2	17.7	14.5	45.0%	NO												
F05	R1	RESIDENTIAL	LKD	W1/F05	5.4	5.4	0	0.0%	YES	99.1	98.9	0.1	0.2%	YES	61	21	39	12	36.1%	42.9%	YES
			LKD	W2/F05	5.9	5.9	0	0.0%	YES												
			LKD	W3/F05	6.2	6.2	0	0.0%	YES												
			LKD	W27/F05 / INC (2)	31.3	17.5	13.8	44.1%	NO												
			LKD	W28/F05 / INC (2)	29.6	16.8	12.8	43.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F05	7	7	0	0.0%	YES	47	47	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R3	RESIDENTIAL	LKD	W5/F05	7.3	7.3	0	0.0%	YES	47.3	47.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F05	7.5	7.5	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F05	7	7	0	0.0%	YES	35	35	0.0	0.0%	YES	13	5	13	5	0.0%	0.0%	YES
			LKD	W8/F05	7.2	7.2	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F05	8	8	0	0.0%	YES	75.1	74.1	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F05	8.9	8.1	0.8	9.0%	YES	100	99.9	0.0	0.1%	YES	20	6	18	6	10.0%	0.0%	YES
			LKD	W11/F05	9.1	8	1.1	12.1%	YES												
			LKD	W12/F05	9.3	8.1	1.2	12.9%	YES												
			LKD	W13/F05	28.9	28.9	0	0.0%	YES												
			LKD	W14/F05	29.1	29.1	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F05	32.1	31.9	0.2	0.6%	YES	100	100	0.0	0.0%	YES	73	26	48	14	34.2%	46.2%	YES
			LKD	W16/F05	32.2	31.9	0.3	0.9%	YES												
			LKD	W17/F05	32.2	31.9	0.3	0.9%	YES												
			LKD	W18/F05	34.7	18.6	16.1	46.4%	NO												
			LKD	W19/F05	34.4	18.3	16.1	46.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F05	33.9	17.9	16	47.2%	NO	98.7	74.4	2.5	24.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F05	33.4	17.6	15.8	47.3%	NO	95.8	53	4.0	44.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F05	32.6	17.3	15.3	46.9%	NO	97.5	50.8	5.3	47.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F05 / INC (2)	34	18.2	15.8	46.5%	NO	98.7	46.6	5.8	52.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F05 / INC (2)	33.5	18.1	15.4	46.0%	NO	95.5	56	4.1	41.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F05 / INC (2)	32.9	18	14.9	45.3%	NO	99.5	93.5	0.6	6.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F05 / INC (2)	32.5	17.9	14.6	44.9%	NO												
F06	R1	RESIDENTIAL	LKD	W1/F06	5.6	5.6	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	62	21	40	12	35.5%	42.9%	YES
			LKD	W2/F06	6	6	0	0.0%	YES												
			LKD	W3/F06	6.4	6.4	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W27/F06 / INC (2)	31.5	17.7	13.8	43.8%	NO												
			LKD	W28/F06 / INC (2)	29.8	17	12.8	43.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F06	7.2	7.2	0	0.0%	YES	47.5	47.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F06	7.6	7.6	0	0.0%	YES	47.6	47.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F06	7.7	7.7	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F06	7.2	7.2	0	0.0%	YES	35.7	35.7	0.0	0.0%	YES	13	5	13	5	0.0%	0.0%	YES
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W8/F06	7.4	7.4	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F06	8.2	8.2	0	0.0%	YES	75.7	74.8	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F06	9	8.3	0.7	7.8%	YES	100	99.9	0.0	0.1%	YES	20	6	18	6	10.0%	0.0%	YES
			LKD	W11/F06	9.2	8.2	1	10.9%	YES												
			LKD	W12/F06	9.5	8.2	1.3	13.7%	YES												
			LKD	W13/F06	30.1	30.1	0	0.0%	YES												
			LKD	W14/F06	30.5	30.5	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F06	33.7	33.5	0.2	0.6%	YES	100	100	0.0	0.0%	YES	75	27	50	15	33.3%	44.4%	YES
			LKD	W16/F06	33.8	33.5	0.3	0.9%	YES												
			LKD	W17/F06	33.9	33.5	0.4	1.2%	YES												
			LKD	W18/F06	35.1	19	16.1	45.9%	NO												
			LKD	W19/F06	34.7	18.6	16.1	46.4%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F06	34.2	18.2	16	46.8%	NO	98.7	74.5	2.5	24.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F06	33.6	17.9	15.7	46.7%	NO	95.8	53.1	4.0	44.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F06	32.8	17.5	15.3	46.6%	NO	97.5	51	5.2	47.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F06 / INC (2)	34.2	18.5	15.7	45.9%	NO	98.7	46.7	5.8	52.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F06 / INC (2)	33.8	18.4	15.4	45.6%	NO	95.5	56.1	4.1	41.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F06 / INC (2)	33.1	18.2	14.9	45.0%	NO	99.5	93.5	0.6	6.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F06 / INC (2)	32.7	18.1	14.6	44.6%	NO												
F07	R1	RESIDENTIAL	LKD	W1/F07	5.7	5.7	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	62	21	40	12	35.5%	42.9%	YES
			LKD	W2/F07	6.2	6.2	0	0.0%	YES												
			LKD	W3/F07	6.5	6.5	0	0.0%	YES												
			LKD	W27/F07 / INC (2)	31.7	17.9	13.8	43.5%	NO												
			LKD	W28/F07 / INC (2)	30	17.1	12.9	43.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F07	7.4	7.4	0	0.0%	YES	48.6	48.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F07	7.8	7.8	0	0.0%	YES	48.4	48.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F07	7.9	7.9	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F07	7.4	7.4	0	0.0%	YES	36.1	36.1	0.0	0.0%	YES	14	5	14	5	0.0%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W8/F07	7.6	7.6	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F07	8.4	8.4	0	0.0%	YES	76.3	75.4	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F07	9.2	8.5	0.7	7.6%	YES	100	99.9	0.0	0.1%	YES	20	6	18	6	10.0%	0.0%	YES
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W11/F07	9.4	8.4	1	10.6%	YES												
			LKD	W12/F07	9.6	8.4	1.2	12.5%	YES												
			LKD	W13/F07	31.1	31.1	0	0.0%	YES												
			LKD	W14/F07	31.7	31.7	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F07	34.9	34.7	0.2	0.6%	YES	100	99.9	0.0	0.1%	YES	77	28	52	16	32.5%	42.9%	YES
			LKD	W16/F07	35	34.7	0.3	0.9%	YES												
			LKD	W17/F07	35.1	34.7	0.4	1.1%	YES												
			LKD	W18/F07	35.4	19.4	16	45.2%	NO												
			LKD	W19/F07	35	18.9	16.1	46.0%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F07	34.4	18.4	16	46.5%	NO	98.7	74.5	2.5	24.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F07	33.8	18.1	15.7	46.4%	NO	95.8	53.3	4.0	44.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F07	33	17.6	15.4	46.7%	NO	97.5	51.2	5.2	47.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F07 / INC (2)	34.5	18.7	15.8	45.8%	NO	98.7	46.9	5.8	52.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F07 / INC (2)	34	18.6	15.4	45.3%	NO	95.5	56.1	4.1	41.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F07 / INC (2)	33.3	18.4	14.9	44.7%	NO	99.5	93.5	0.6	6.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F07 / INC (2)	32.9	18.2	14.7	44.7%	NO												
F08	R1	RESIDENTIAL	LKD	W1/F08	5.8	5.8	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	62	21	40	12	35.5%	42.9%	YES
			LKD	W2/F08	6.4	6.4	0	0.0%	YES												
			LKD	W3/F08	6.7	6.7	0	0.0%	YES												
			LKD	W24/F08 / INC (2)	31.8	18	13.8	43.4%	NO												
			LKD	W25/F08 / INC (2)	30.1	17.2	12.9	42.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F08	7.5	7.5	0	0.0%	YES	38.7	38.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F08	8.1	8.1	0	0.0%	YES	33.9	33.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F08	7.7	7.7	0	0.0%	YES	26.1	26.1	0.0	0.0%	YES	13	4	13	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F08	8.7	8.6	0.1	1.1%	YES	77.4	76.5	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F08	9.4	8.7	0.7	7.4%	YES	100	99.9	0.0	0.1%	YES	20	6	18	6	10.0%	0.0%	YES
			LKD	W9/F08	9.6	8.6	1	10.4%	YES												
			LKD	W10/F08	9.8	8.6	1.2	12.2%	YES												
			LKD	W11/F08	31.9	31.9	0	0.0%	YES												
			LKD	W12/F08	32.5	32.5	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F08	35.7	35.5	0.2	0.6%	YES	100	99.9	0.0	0.1%	YES	78	28	53	16	32.1%	42.9%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W14/F08	35.8	35.5	0.3	0.8%	YES												
			LKD	W15/F08	35.6	19.6	16	44.9%	NO												
			LKD	W16/F08	35.1	19.1	16	45.6%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F08	34.6	18.6	16	46.2%	NO	98.7	86.9	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F08	34.4	18.4	16	46.5%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F08	33.8	18.1	15.7	46.4%	NO	93.3	62.1	3.0	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F08	33	17.8	15.2	46.1%	NO	94.7	67.2	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F08 / INC (2)	34.6	18.9	15.7	45.4%	NO	97.2	57.9	4.4	40.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F08 / INC (2)	34	18.6	15.4	45.3%	NO	91.5	63	2.9	31.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F08 / INC (2)	33.1	18.4	14.7	44.4%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F09	R1	RESIDENTIAL	LKD	W1/F09	5.9	5.9	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	62	21	41	12	33.9%	42.9%	YES
			LKD	W2/F09	6.5	6.5	0	0.0%	YES												
			LKD	W3/F09	6.9	6.9	0	0.0%	YES												
			LKD	W27/F09 / INC (2)	31.9	18	13.9	43.6%	NO												
			LKD	W28/F09 / INC (2)	30.1	17.2	12.9	42.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F09 / INC (2)	7.8	7.8	0	0.0%	YES	50.3	50.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F09 / INC (2)	8.2	8.2	0	0.0%	YES	49.3	49.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F09 / INC (2)	8.4	8.4	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F09	7.8	7.8	0	0.0%	YES	34.1	34.1	0.0	0.0%	YES	14	5	14	5	0.0%	0.0%	YES
			LKD	W8/F09	8	8	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F09	8.9	8.9	0	0.0%	YES	78.7	77.7	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F09	9.6	8.9	0.7	7.3%	YES	100	99.9	0.0	0.1%	YES	22	6	19	6	13.6%	0.0%	YES
			LKD	W11/F09	9.8	8.8	1	10.2%	YES												
			LKD	W12/F09	10	8.8	1.2	12.0%	YES												
			LKD	W13/F09	32.1	32.1	0	0.0%	YES												
			LKD	W14/F09	32.7	32.7	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F09	36.3	36	0.3	0.8%	YES	100	99.9	0.0	0.1%	YES	79	28	54	16	31.6%	42.9%	YES
			LKD	W16/F09	36.3	36	0.3	0.8%	YES												
			LKD	W17/F09	36.3	36	0.3	0.8%	YES												
			LKD	W18/F09	35.7	19.7	16	44.8%	NO												
			LKD	W19/F09	35.2	19.2	16	45.5%	NO												
DEANSGATE EAST TOWER (CONTINUED)																					
	R8	RESIDENTIAL	BEDROOM	W20/F09	34.6	18.7	15.9	46.0%	NO	98.7	74.8	2.4	24.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F09	34	18.3	15.7	46.2%	NO	95.8	53.7	4.0	43.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R10	RESIDENTIAL	BEDROOM	W22/F09	33.2	17.9	15.3	46.1%	NO	97.5	51.3	5.2	47.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F09 / INC (2)	34.7	19	15.7	45.2%	NO	98.7	47.1	5.7	52.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F09 / INC (2)	34.2	18.8	15.4	45.0%	NO	95.5	56.3	4.1	41.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F09 / INC (2)	33.5	18.6	14.9	44.5%	NO	99.5	93.6	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F09 / INC (2)	33.1	18.4	14.7	44.4%	NO												
F10	R1	RESIDENTIAL	LKD	W1/F10	6.1	6.1	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	63	21	42	12	33.3%	42.9%	YES
			LKD	W2/F10	6.7	6.7	0	0.0%	YES												
			LKD	W3/F10	7.1	7.1	0	0.0%	YES												
			LKD	W24/F10 / INC (2)	32	18.1	13.9	43.4%	NO												
			LKD	W25/F10 / INC (2)	30.2	17.3	12.9	42.7%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F10	7.9	7.9	0	0.0%	YES	41.6	41.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F10	8.6	8.6	0	0.0%	YES	34.9	34.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F10	8.1	8.1	0	0.0%	YES	27.2	27.2	0.0	0.0%	YES	14	4	14	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F10	9.1	9.1	0	0.0%	YES	80.1	79.2	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F10	9.8	9.1	0.7	7.1%	YES	100	99.9	0.0	0.1%	YES	22	6	20	6	9.1%	0.0%	YES
			LKD	W9/F10	10	9	1	10.0%	YES												
			LKD	W10/F10	10.1	9	1.1	10.9%	YES												
			LKD	W11/F10	32.1	32.1	0	0.0%	YES												
			LKD	W12/F10	32.8	32.8	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F10	36.7	36.4	0.3	0.8%	YES	100	100	0.0	0.0%	YES	79	28	54	16	31.6%	42.9%	YES
			LKD	W14/F10	36.7	36.4	0.3	0.8%	YES												
			LKD	W15/F10	35.8	19.8	16	44.7%	NO												
			LKD	W16/F10	35.3	19.3	16	45.3%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F10	34.8	18.8	16	46.0%	NO	98.7	87.5	1.2	11.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F10	34.5	18.6	15.9	46.1%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F10	33.9	18.3	15.6	46.0%	NO	93.3	62.1	2.9	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F10	33.2	18	15.2	45.8%	NO	94.7	67.2	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F10 / INC (2)	34.8	19.1	15.7	45.1%	NO	97.2	58.4	4.3	39.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F10 / INC (2)	34.2	18.8	15.4	45.0%	NO	91.5	63	2.9	31.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R13	RESIDENTIAL	BEDROOM	W23/F10 / INC (2)	33.3	18.5	14.8	44.4%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F11	R1	RESIDENTIAL	LKD	W1/F11	6.2	6.2	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	64	22	41	12	35.9%	45.5%	YES
			LKD	W2/F11	6.9	6.9	0	0.0%	YES												
			LKD	W3/F11	7.3	7.3	0	0.0%	YES												
			LKD	W27/F11 / INC (2)	32.1	18.2	13.9	43.3%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W28/F11 / INC (2)	30.3	17.3	13	42.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F11 / INC (2)	8.3	8.3	0	0.0%	YES	53.8	53.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F11 / INC (2)	8.7	8.7	0	0.0%	YES	51.2	51.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F11 / INC (2)	8.9	8.9	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F11	8.3	8.3	0	0.0%	YES	36.4	36.4	0.0	0.0%	YES	15	5	15	5	0.0%	0.0%	YES
			LKD	W8/F11	8.5	8.5	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F11	9.4	9.4	0	0.0%	YES	81.9	81.1	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F11	10.1	9.3	0.8	7.9%	YES	100	99.9	0.0	0.1%	YES	24	6	22	6	8.3%	0.0%	YES
			LKD	W11/F11	10.2	9.2	1	9.8%	YES												
			LKD	W12/F11	10.3	9.1	1.2	11.7%	YES												
			LKD	W13/F11	32.2	32.2	0	0.0%	YES												
			LKD	W14/F11	32.9	32.9	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F11	37	36.7	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W16/F11	37	36.7	0.3	0.8%	YES												
			LKD	W17/F11	37	36.7	0.3	0.8%	YES												
			LKD	W18/F11	35.8	19.9	15.9	44.4%	NO												
			LKD	W19/F11	35.4	19.4	16	45.2%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F11	34.8	18.8	16	46.0%	NO	98.7	75.4	2.4	23.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F11	34.1	18.5	15.6	45.7%	NO	95.8	53.8	4.0	43.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F11	33.3	18	15.3	45.9%	NO	97.5	51.3	5.2	47.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F11 / INC (2)	34.9	19.2	15.7	45.0%	NO	98.7	47.1	5.7	52.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F11 / INC (2)	34.4	19	15.4	44.8%	NO	95.5	56.3	4.0	41.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F11 / INC (2)	33.7	18.7	15	44.5%	NO	99.5	93.6	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F11 / INC (2)	33.3	18.6	14.7	44.1%	NO												
F12	R1	RESIDENTIAL	LKD	W1/F12	6.4	6.4	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	64	22	41	12	35.9%	45.5%	YES
			LKD	W2/F12	7.1	7.1	0	0.0%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W3/F12	7.5	7.5	0	0.0%	YES												
			LKD	W24/F12 / INC (2)	32.1	18.2	13.9	43.3%	NO												
			LKD	W25/F12 / INC (2)	30.3	17.4	12.9	42.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F12	8.4	8.4	0	0.0%	YES	45.2	45.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F12	9.1	9.1	0	0.0%	YES	36.2	36.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F12	8.7	8.7	0	0.0%	YES	28.3	28.3	0.0	0.0%	YES	15	4	15	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F12	9.6	9.6	0	0.0%	YES	84.8	83.9	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F12	10.3	9.6	0.7	6.8%	YES	100	99.9	0.0	0.1%	YES	24	6	22	6	8.3%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W9/F12	10.4	9.4	1	9.6%	YES												
			LKD	W10/F12	10.5	9.4	1.1	10.5%	YES												
			LKD	W11/F12	32.2	32.2	0	0.0%	YES												
			LKD	W12/F12	32.9	32.9	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F12	37.3	37	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W14/F12	37.3	37	0.3	0.8%	YES												
			LKD	W15/F12	35.9	20	15.9	44.3%	NO												
			LKD	W16/F12	35.4	19.4	16	45.2%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F12	34.9	19	15.9	45.6%	NO	98.7	87.7	1.1	11.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F12	34.6	18.8	15.8	45.7%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F12	34	18.4	15.6	45.9%	NO	93.3	62.1	3.0	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F12	33.3	18.1	15.2	45.6%	NO	94.7	67.2	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F12 / INC (2)	34.9	19.3	15.6	44.7%	NO	97.2	58.3	4.3	40.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F12 / INC (2)	34.3	19	15.3	44.6%	NO	91.5	63	2.9	31.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F12 / INC (2)	33.4	18.7	14.7	44.0%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F13	R1	RESIDENTIAL	LKD	W1/F13	6.6	6.6	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	64	22	41	12	35.9%	45.5%	YES
			LKD	W2/F13	7.3	7.3	0	0.0%	YES												
			LKD	W3/F13	7.8	7.8	0	0.0%	YES												
			LKD	W27/F13 / INC (2)	32.2	18.3	13.9	43.2%	NO												
			LKD	W28/F13 / INC (2)	30.4	17.5	12.9	42.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F13 / INC (2)	8.8	8.8	0	0.0%	YES	57.9	57.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F13 / INC (2)	9.2	9.2	0	0.0%	YES	53.9	53.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F13 / INC (2)	9.4	9.4	0	0.0%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
	R4 (3)	RESIDENTIAL	LKD	W7/F13	8.8	8.8	0	0.0%	YES	38.9	38.9	0.0	0.0%	YES	16	5	16	5	0.0%	0.0%	YES
			LKD	W8/F13	9.1	9.1	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F13	9.9	9.9	0	0.0%	YES	87.5	86.6	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F13	10.5	9.8	0.7	6.7%	YES	100	99.9	0.0	0.1%	YES	24	6	22	6	8.3%	0.0%	YES
			LKD	W11/F13	10.6	9.7	0.9	8.5%	YES												
			LKD	W12/F13	10.7	9.6	1.1	10.3%	YES												
			LKD	W13/F13	32.3	32.3	0	0.0%	YES												
			LKD	W14/F13	33	33	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F13	37.6	37.3	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W16/F13	37.6	37.3	0.3	0.8%	YES												
			LKD	W17/F13	37.6	37.3	0.3	0.8%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W18/F13	35.9	20	15.9	44.3%	NO												
			LKD	W19/F13	35.5	19.5	16	45.1%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F13	34.8	18.9	15.9	45.7%	NO	98.7	75.3	2.4	23.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F13	34.2	18.6	15.6	45.6%	NO	95.8	53.6	4.0	44.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F13	33.4	18.1	15.3	45.8%	NO	97.5	51.2	5.2	47.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F13 / INC (2)	35	19.3	15.7	44.9%	NO	98.7	47	5.8	52.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F13 / INC (2)	34.5	19.1	15.4	44.6%	NO	95.5	56.3	4.1	41.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F13 / INC (2)	33.8	18.9	14.9	44.1%	NO	99.5	93.6	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F13 / INC (2)	33.4	18.7	14.7	44.0%	NO												
F14	R1	RESIDENTIAL	LKD	W1/F14	6.7	6.7	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	64	22	41	12	35.9%	45.5%	YES
			LKD	W2/F14	7.5	7.5	0	0.0%	YES												
			LKD	W3/F14	8	8	0	0.0%	YES												
			LKD	W24/F14 / INC (2)	32.2	18.3	13.9	43.2%	NO												
			LKD	W25/F14 / INC (2)	30.4	17.5	12.9	42.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F14	9	9	0	0.0%	YES	51.2	51.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F14	9.7	9.7	0	0.0%	YES	37.5	37.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F14	9.2	9.2	0	0.0%	YES	30.1	30.1	0.0	0.0%	YES	17	4	17	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F14	10.2	10.2	0	0.0%	YES	90.2	89.4	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F14	10.8	10.1	0.7	6.5%	YES	100	99.9	0.0	0.1%	YES	25	6	23	6	8.0%	0.0%	YES
			LKD	W9/F14	10.8	9.9	0.9	8.3%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W10/F14	10.9	9.8	1.1	10.1%	YES												
			LKD	W11/F14	32.3	32.3	0	0.0%	YES												
			LKD	W12/F14	33	33	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F14	37.8	37.5	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W14/F14	37.9	37.6	0.3	0.8%	YES												
			LKD	W15/F14	36	20.1	15.9	44.2%	NO												
			LKD	W16/F14	35.5	19.6	15.9	44.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F14	35	19.1	15.9	45.4%	NO	98.7	87.3	1.2	11.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F14	34.7	18.9	15.8	45.5%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F14	34.1	18.6	15.5	45.5%	NO	93.3	62.1	3.0	33.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F14	33.3	18.2	15.1	45.3%	NO	94.7	67.2	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F14 / INC (2)	35	19.4	15.6	44.6%	NO	97.2	58	4.4	40.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F14 / INC (2)	34.4	19.1	15.3	44.5%	NO	91.5	63	2.9	31.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F14 / INC (2)	33.5	18.8	14.7	43.9%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F15	R1	RESIDENTIAL	LKD	W1/F15	6.9	6.9	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	66	22	43	12	34.8%	45.5%	YES
			LKD	W2/F15	7.7	7.7	0	0.0%	YES												
			LKD	W3/F15	8.3	8.3	0	0.0%	YES												
			LKD	W27/F15 / INC (2)	32.3	18.4	13.9	43.0%	NO												
			LKD	W28/F15 / INC (2)	30.5	17.6	12.9	42.3%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F15 / INC (2)	9.4	9.4	0	0.0%	YES	61.3	61.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F15 / INC (2)	9.8	9.8	0	0.0%	YES	57.9	57.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F15 / INC (2)	10	10	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F15	9.4	9.4	0	0.0%	YES	42.8	42.8	0.0	0.0%	YES	18	5	18	5	0.0%	0.0%	YES
			LKD	W8/F15	9.7	9.7	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F15	10.5	10.5	0	0.0%	YES	90.5	89.7	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F15	11.1	10.4	0.7	6.3%	YES	100	99.9	0.0	0.1%	YES	25	6	23	6	8.0%	0.0%	YES
			LKD	W11/F15	11.1	10.2	0.9	8.1%	YES												
			LKD	W12/F15	11.1	10	1.1	9.9%	YES												
			LKD	W13/F15	32.4	32.4	0	0.0%	YES												
			LKD	W14/F15	33.1	33.1	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F15	38.1	37.8	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W16/F15	38.1	37.8	0.3	0.8%	YES												
			LKD	W17/F15	38.1	37.8	0.3	0.8%	YES												
			LKD	W18/F15	36	20.1	15.9	44.2%	NO												
			LKD	W19/F15	35.5	19.6	15.9	44.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F15	34.9	19.1	15.8	45.3%	NO	98.7	74.9	2.4	24.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F15	34.3	18.7	15.6	45.5%	NO	95.8	53.3	4.0	44.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F15	33.4	18.2	15.2	45.5%	NO	97.5	51.1	5.2	47.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F15 / INC (2)	35.1	19.5	15.6	44.4%	NO	98.7	46.9	5.8	52.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F15 / INC (2)	34.6	19.3	15.3	44.2%	NO	95.5	56.2	4.1	41.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F15 / INC (2)	33.9	19	14.9	44.0%	NO	99.5	93.6	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F15 / INC (2)	33.5	18.8	14.7	43.9%	NO												
F16	R1	RESIDENTIAL	LKD	W1/F16	7.1	7.1	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	66	22	43	12	34.8%	45.5%	YES
			LKD	W2/F16	8	8	0	0.0%	YES												
			LKD	W3/F16	8.5	8.5	0	0.0%	YES												
			LKD	W24/F16 / INC (2)	32.3	18.5	13.8	42.7%	NO												
			LKD	W25/F16 / INC (2)	30.5	17.6	12.9	42.3%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F16	9.6	9.6	0	0.0%	YES	57	57	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	LKD	W5/F16	10.2	10.2	0	0.0%	YES	40.4	40.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F16	9.8	9.8	0	0.0%	YES	32.9	32.9	0.0	0.0%	YES	17	4	17	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F16	10.8	10.7	0.1	0.9%	YES	90.9	90.1	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F16	11.3	10.6	0.7	6.2%	YES	100	99.9	0.0	0.1%	YES	25	6	23	6	8.0%	0.0%	YES
			LKD	W9/F16	11.3	10.4	0.9	8.0%	YES												
			LKD	W10/F16	11.3	10.2	1.1	9.7%	YES												
			LKD	W11/F16	32.4	32.4	0	0.0%	YES												
			LKD	W12/F16	33.2	33.2	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F16	38.3	38	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W14/F16	38.4	38.1	0.3	0.8%	YES												
			LKD	W15/F16	36.1	20.2	15.9	44.0%	NO												
			LKD	W16/F16	35.6	19.7	15.9	44.7%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F16	35.1	19.2	15.9	45.3%	NO	98.7	87	1.2	11.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F16	34.8	19	15.8	45.4%	NO												
DEANSGATE EAST TOWER (CONTINUED)																					
	R9	RESIDENTIAL	BEDROOM	W19/F16	34.2	18.7	15.5	45.3%	NO	93.3	62.1	3.0	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F16	33.4	18.3	15.1	45.2%	NO	94.7	67.2	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F16 / INC (2)	35.1	19.6	15.5	44.2%	NO	97.2	57.8	4.4	40.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F16 / INC (2)	34.5	19.3	15.2	44.1%	NO	91.5	63	2.9	31.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F16 / INC (2)	33.6	18.9	14.7	43.8%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F17	R1	RESIDENTIAL	LKD	W1/F17	7.3	7.3	0	0.0%	YES	99.1	99.1	0.0	0.0%	YES	66	22	43	12	34.8%	45.5%	YES
			LKD	W2/F17	8.2	8.2	0	0.0%	YES												
			LKD	W3/F17	8.8	8.8	0	0.0%	YES												
			LKD	W27/F17 / INC (2)	32.4	18.5	13.9	42.9%	NO												
			LKD	W28/F17 / INC (2)	30.6	17.6	13	42.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F17 / INC (2)	10	10	0	0.0%	YES	62.2	62.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F17 / INC (2)	10.4	10.4	0	0.0%	YES	63.9	63.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F17 / INC (2)	10.6	10.6	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F17	9.9	9.9	0	0.0%	YES	48.7	48.7	0.0	0.0%	YES	19	5	19	5	0.0%	0.0%	YES
			LKD	W8/F17	10.2	10.2	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F17	11	11	0	0.0%	YES	91.3	90.5	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F17	11.5	10.9	0.6	5.2%	YES	100	99.9	0.0	0.1%	YES	26	6	24	6	7.7%	0.0%	YES
			LKD	W11/F17	11.5	10.6	0.9	7.8%	YES												
			LKD	W12/F17	11.5	10.4	1.1	9.6%	YES												
			LKD	W13/F17	32.4	32.4	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W14/F17	33.2	33.2	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F17	38.5	38.3	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W16/F17	38.6	38.3	0.3	0.8%	YES												
			LKD	W17/F17	38.6	38.3	0.3	0.8%	YES												
			LKD	W18/F17	36.1	20.2	15.9	44.0%	NO												
			LKD	W19/F17	35.6	19.7	15.9	44.7%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F17	35	19.2	15.8	45.1%	NO	98.7	74.8	2.4	24.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F17	34.4	18.8	15.6	45.3%	NO	95.8	53.4	4.0	44.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F17	33.5	18.3	15.2	45.4%	NO	97.5	51.3	5.2	47.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F17 / INC (2)	35.2	19.6	15.6	44.3%	NO	98.7	47	5.8	52.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F17 / INC (2)	34.7	19.4	15.3	44.1%	NO	95.5	56.3	4.1	41.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R13	RESIDENTIAL	BEDROOM	W25/F17 / INC (2)	34	19.1	14.9	43.8%	NO	99.5	93.6	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F17 / INC (2)	33.6	19	14.6	43.5%	NO												
F18	R1	RESIDENTIAL	LKD	W1/F18	7.6	7.6	0	0.0%	YES	99.4	99.4	0.0	0.0%	YES	66	22	43	12	34.8%	45.5%	YES
			LKD	W2/F18	8.5	8.5	0	0.0%	YES												
			LKD	W3/F18	9.1	9.1	0	0.0%	YES												
			LKD	W24/F18 / INC (2)	32.4	18.6	13.8	42.6%	NO												
			LKD	W25/F18 / INC (2)	30.6	17.7	12.9	42.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F18	10.2	10.2	0	0.0%	YES	58.6	58.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F18	10.9	10.9	0	0.0%	YES	46.6	46.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F18	10.3	10.3	0	0.0%	YES	37.9	37.9	0.0	0.0%	YES	18	4	18	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F18	11.3	11.3	0	0.0%	YES	91.3	90.6	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F18	11.8	11.1	0.7	5.9%	YES	100	99.9	0.0	0.1%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W9/F18	11.7	10.8	0.9	7.7%	YES												
			LKD	W10/F18	11.7	10.6	1.1	9.4%	YES												
			LKD	W11/F18	32.5	32.5	0	0.0%	YES												
			LKD	W12/F18	33.3	33.3	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F18	38.7	38.4	0.3	0.8%	YES	100	99.9	0.0	0.1%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W14/F18	38.8	38.4	0.4	1.0%	YES												
			LKD	W15/F18	36.1	20.3	15.8	43.8%	NO												
			LKD	W16/F18	35.7	19.8	15.9	44.5%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F18	35.1	19.3	15.8	45.0%	NO	98.7	86.9	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F18	34.8	19.1	15.7	45.1%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F18	34.2	18.8	15.4	45.0%	NO	93.3	62.1	2.9	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R10	RESIDENTIAL	BEDROOM	W20/F18	33.5	18.4	15.1	45.1%	NO	94.7	67.3	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F18 / INC (2)	35.2	19.7	15.5	44.0%	NO	97.2	58	4.4	40.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F18 / INC (2)	34.6	19.4	15.2	43.9%	NO	91.5	62.8	3.0	31.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F18 / INC (2)	33.7	19.1	14.6	43.3%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F19	R1	RESIDENTIAL	LKD	W1/F19	7.8	7.8	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	67	22	45	12	32.8%	45.5%	YES
			LKD	W2/F19	8.8	8.8	0	0.0%	YES												
			LKD	W3/F19	9.4	9.4	0	0.0%	YES												
			LKD	W27/F19 / INC (2)	32.4	18.6	13.8	42.6%	NO												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W28/F19 / INC (2)	30.6	17.7	12.9	42.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F19 / INC (2)	10.6	10.6	0	0.0%	YES	63.1	63.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F19 / INC (2)	11	11	0	0.0%	YES	70.7	70.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F19 / INC (2)	11.2	11.2	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F19	10.5	10.5	0	0.0%	YES	57.2	57.2	0.0	0.0%	YES	19	5	19	5	0.0%	0.0%	YES
			LKD	W8/F19	10.8	10.8	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F19	11.5	11.5	0	0.0%	YES	91.3	90.5	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F19	12	11.3	0.7	5.8%	YES	100	100	0.0	0.0%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W11/F19	11.9	11	0.9	7.6%	YES												
			LKD	W12/F19	11.9	10.8	1.1	9.2%	YES												
			LKD	W13/F19	32.5	32.5	0	0.0%	YES												
			LKD	W14/F19	33.3	33.3	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F19	38.8	38.6	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W16/F19	38.9	38.6	0.3	0.8%	YES												
			LKD	W17/F19	38.9	38.6	0.3	0.8%	YES												
			LKD	W18/F19	36.2	20.4	15.8	43.6%	NO												
			LKD	W19/F19	35.7	19.8	15.9	44.5%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F19	35.1	19.3	15.8	45.0%	NO	98.7	74.9	2.4	24.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F19	34.4	18.9	15.5	45.1%	NO	95.8	53.8	4.0	43.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F19	33.6	18.4	15.2	45.2%	NO	97.5	51.3	5.2	47.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F19 / INC (2)	35.3	19.8	15.5	43.9%	NO	98.7	47.1	5.7	52.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F19 / INC (2)	34.8	19.5	15.3	44.0%	NO	95.5	56.4	4.0	40.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F19 / INC (2)	34.1	19.3	14.8	43.4%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F19 / INC (2)	33.6	19.1	14.5	43.2%	NO												
F20	R1	RESIDENTIAL	LKD	W1/F20	8	8	0	0.0%	YES	100	100	0.0	0.0%	YES	67	22	44	12	34.3%	45.5%	YES
			LKD	W2/F20	9.1	9.1	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W3/F20	9.7	9.7	0	0.0%	YES												
			LKD	W24/F20 / INC (2)	32.5	18.7	13.8	42.5%	NO												
			LKD	W25/F20 / INC (2)	30.7	17.8	12.9	42.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F20	10.8	10.8	0	0.0%	YES	59.1	59.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F20	11.4	11.4	0	0.0%	YES	54.9	54.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R4 (3)	RESIDENTIAL	LKD	W6/F20	10.9	10.9	0	0.0%	YES	43.7	43.7	0.0	0.0%	YES	18	4	18	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F20	11.8	11.8	0	0.0%	YES	91.4	90.7	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F20	12.2	11.5	0.7	5.7%	YES	100	100	0.0	0.0%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W9/F20	12.1	11.2	0.9	7.4%	YES												
			LKD	W10/F20	12	11	1	8.3%	YES												
			LKD	W11/F20	32.6	32.6	0	0.0%	YES												
			LKD	W12/F20	33.4	33.4	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F20	38.9	38.7	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W14/F20	39	38.7	0.3	0.8%	YES												
			LKD	W15/F20	36.2	20.4	15.8	43.6%	NO												
			LKD	W16/F20	35.7	19.9	15.8	44.3%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F20	35.2	19.4	15.8	44.9%	NO	98.7	87.5	1.2	11.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F20	34.9	19.2	15.7	45.0%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F20	34.3	18.9	15.4	44.9%	NO	93.3	62.1	2.9	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F20	33.5	18.6	14.9	44.5%	NO	94.7	67.3	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F20 / INC (2)	35.2	19.8	15.4	43.8%	NO	97.2	58.4	4.3	39.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F20 / INC (2)	34.6	19.5	15.1	43.6%	NO	91.5	62.9	3.0	31.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F20 / INC (2)	33.8	19.2	14.6	43.2%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F21	R1	RESIDENTIAL	LKD	W1/F21	8.3	8.3	0	0.0%	YES	100	100	0.0	0.0%	YES	67	22	44	12	34.3%	45.5%	YES
			LKD	W2/F21	9.4	9.4	0	0.0%	YES												
			LKD	W3/F21	10	10	0	0.0%	YES												
			LKD	W27/F21 / INC (2)	32.5	18.7	13.8	42.5%	NO												
			LKD	W28/F21 / INC (2)	30.7	17.9	12.8	41.7%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F21 / INC (2)	11.2	11.2	0	0.0%	YES	63.7	63.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F21 / INC (2)	11.6	11.6	0	0.0%	YES	78.4	78.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F21 / INC (2)	11.8	11.8	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F21	11	11	0	0.0%	YES	64.5	64.5	0.0	0.0%	YES	19	5	19	5	0.0%	0.0%	YES
			LKD	W8/F21	11.3	11.3	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F21	12	12	0	0.0%	YES	91.4	90.7	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R6	RESIDENTIAL	LKD	W10/F21	12.4	11.7	0.7	5.6%	YES	100	100	0.0	0.0%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W11/F21	12.3	11.5	0.8	6.5%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W12/F21	12.2	11.2	1	8.2%	YES												
			LKD	W13/F21	32.7	32.7	0	0.0%	YES												
			LKD	W14/F21	33.5	33.5	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F21	39	38.8	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W16/F21	39.1	38.8	0.3	0.8%	YES												
			LKD	W17/F21	39.1	38.8	0.3	0.8%	YES												
			LKD	W18/F21	36.2	20.5	15.7	43.4%	NO												
			LKD	W19/F21	35.8	20	15.8	44.1%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F21	35.1	19.4	15.7	44.7%	NO	98.7	75.5	2.4	23.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F21	34.5	19.1	15.4	44.6%	NO	95.8	53.8	4.0	43.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F21	33.6	18.6	15	44.6%	NO	97.5	51.3	5.2	47.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F21 / INC (2)	35.3	19.9	15.4	43.6%	NO	98.7	47.1	5.7	52.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F21 / INC (2)	34.8	19.7	15.1	43.4%	NO	95.5	56.5	4.0	40.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F21 / INC (2)	34.1	19.4	14.7	43.1%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F21 / INC (2)	33.7	19.2	14.5	43.0%	NO												
F22	R1	RESIDENTIAL	LKD	W1/F22	8.6	8.6	0	0.0%	YES	100	100	0.0	0.0%	YES	67	22	44	12	34.3%	45.5%	YES
			LKD	W2/F22	9.7	9.7	0	0.0%	YES												
			LKD	W3/F22	10.3	10.3	0	0.0%	YES												
			LKD	W24/F22 / INC (2)	32.5	18.8	13.7	42.2%	NO												
			LKD	W25/F22 / INC (2)	30.7	17.9	12.8	41.7%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F22	11.4	11.4	0	0.0%	YES	59.6	59.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F22	12	12	0	0.0%	YES	63.3	63.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F22	11.4	11.4	0	0.0%	YES	52.9	52.9	0.0	0.0%	YES	19	4	19	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F22	12.3	12.3	0	0.0%	YES	91.5	90.9	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F22	12.6	12	0.6	4.8%	YES	100	100	0.0	0.0%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W9/F22	12.5	11.7	0.8	6.4%	YES												
			LKD	W10/F22	12.4	11.4	1	8.1%	YES												
			LKD	W11/F22	32.7	32.7	0	0.0%	YES												
			LKD	W12/F22	33.6	33.6	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F22	39.1	38.8	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W14/F22	39.2	38.9	0.3	0.8%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W15/F22	36.3	20.6	15.7	43.3%	NO												
			LKD	W16/F22	35.8	20	15.8	44.1%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F22	35.3	19.6	15.7	44.5%	NO	98.7	87.7	1.1	11.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F22	35	19.4	15.6	44.6%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F22	34.4	19.1	15.3	44.5%	NO	93.3	62.1	2.9	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F22	33.6	18.7	14.9	44.3%	NO	94.7	67.3	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F22 / INC (2)	35.3	20	15.3	43.3%	NO	97.2	58.3	4.3	40.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F22 / INC (2)	34.7	19.7	15	43.2%	NO	91.5	62.8	3.0	31.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F22 / INC (2)	33.8	19.4	14.4	42.6%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F23	R1	RESIDENTIAL	LKD	W1/F23	8.9	8.9	0	0.0%	YES	100	100	0.0	0.0%	YES	67	22	44	12	34.3%	45.5%	YES
			LKD	W2/F23	10	10	0	0.0%	YES												
			LKD	W3/F23	10.6	10.6	0	0.0%	YES												
			LKD	W27/F23 / INC (2)	32.5	18.9	13.6	41.8%	NO												
			LKD	W28/F23 / INC (2)	30.7	18	12.7	41.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F23 / INC (2)	11.9	11.9	0	0.0%	YES	64.3	64.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F23 / INC (2)	12.2	12.2	0	0.0%	YES	85.4	85.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F23 / INC (2)	12.5	12.5	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F23	11.6	11.6	0	0.0%	YES	69.9	69.9	0.0	0.0%	YES	20	5	20	5	0.0%	0.0%	YES
			LKD	W8/F23	11.9	11.9	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F23	12.6	12.6	0	0.0%	YES	91.6	90.9	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F23	12.9	12.3	0.6	4.7%	YES	100	100	0.0	0.0%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W11/F23	12.8	12	0.8	6.3%	YES												
			LKD	W12/F23	12.7	11.7	1	7.9%	YES												
			LKD	W13/F23	32.8	32.8	0	0.0%	YES												
			LKD	W14/F23	33.6	33.6	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F23	39.1	38.9	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W16/F23	39.1	38.9	0.2	0.5%	YES												
			LKD	W17/F23	39.2	38.9	0.3	0.8%	YES												
			LKD	W18/F23	36.3	20.7	15.6	43.0%	NO												
			LKD	W19/F23	35.8	20.1	15.7	43.9%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F23	35.2	19.6	15.6	44.3%	NO	98.7	75.3	2.4	23.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R9	RESIDENTIAL	BEDROOM	W21/F23	34.5	19.2	15.3	44.3%	NO	95.8	53.7	4.0	43.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F23	33.7	18.7	15	44.5%	NO	97.5	51.2	5.2	47.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F23 / INC (2)	35.4	20.1	15.3	43.2%	NO	98.7	47	5.8	52.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R12	RESIDENTIAL	BEDROOM	W24/F23 / INC (2)	34.9	19.9	15	43.0%	NO	95.5	56.4	4.0	40.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F23 / INC (2)	34.2	19.6	14.6	42.7%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F23 / INC (2)	33.7	19.4	14.3	42.4%	NO												
F24	R1	RESIDENTIAL	LKD	W1/F24	9.2	9.2	0	0.0%	YES	100	100	0.0	0.0%	YES	68	22	45	12	33.8%	45.5%	YES
			LKD	W2/F24	10.4	10.4	0	0.0%	YES												
			LKD	W3/F24	11	11	0	0.0%	YES												
			LKD	W24/F24 / INC (2)	32.6	19	13.6	41.7%	NO												
			LKD	W25/F24 / INC (2)	30.8	18.1	12.7	41.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F24	12.1	12.1	0	0.0%	YES	60.4	60.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F24	12.7	12.7	0	0.0%	YES	67	67	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F24	12	12	0	0.0%	YES	55.7	55.7	0.0	0.0%	YES	19	4	19	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F24	12.9	12.9	0	0.0%	YES	91.8	91.2	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F24	13.1	12.5	0.6	4.6%	YES	100	100	0.0	0.0%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W9/F24	13	12.2	0.8	6.2%	YES												
			LKD	W10/F24	12.9	11.9	1	7.8%	YES												
			LKD	W11/F24	32.9	32.9	0	0.0%	YES												
			LKD	W12/F24	33.7	33.7	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F24	39.1	38.9	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W14/F24	39.2	38.9	0.3	0.8%	YES												
			LKD	W15/F24	36.3	20.7	15.6	43.0%	NO												
			LKD	W16/F24	35.9	20.2	15.7	43.7%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F24	35.3	19.7	15.6	44.2%	NO	98.7	87.3	1.2	11.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F24	35	19.5	15.5	44.3%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F24	34.4	19.2	15.2	44.2%	NO	93.3	62.1	3.0	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F24	33.6	18.9	14.7	43.8%	NO	94.7	67.3	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F24 / INC (2)	35.4	20.2	15.2	42.9%	NO	97.2	58.1	4.4	40.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F24 / INC (2)	34.8	19.9	14.9	42.8%	NO	91.5	62.8	3.0	31.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F24 / INC (2)	33.9	19.5	14.4	42.5%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
F25	R1	RESIDENTIAL	LKD	W1/F25	9.6	9.6	0	0.0%	YES	100	100	0.0	0.0%	YES	68	22	45	12	33.8%	45.5%	YES
			LKD	W2/F25	10.8	10.8	0	0.0%	YES												
			LKD	W3/F25	11.4	11.4	0	0.0%	YES												
			LKD	W27/F25 / INC (2)	32.6	19.1	13.5	41.4%	NO												
			LKD	W28/F25 / INC (2)	30.8	18.1	12.7	41.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F25 / INC (2)	12.6	12.6	0	0.0%	YES	65.2	65.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R3	RESIDENTIAL	LKD	W5/F25 / INC (2)	12.9	12.9	0	0.0%	YES	87.4	87.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F25 / INC (2)	13.2	13.2	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F25	12.2	12.2	0	0.0%	YES	72.5	72.5	0.0	0.0%	YES	20	5	20	5	0.0%	0.0%	YES
			LKD	W8/F25	12.5	12.5	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F25	13.2	13.2	0	0.0%	YES	92.2	91.6	0.1	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F25	13.4	12.9	0.5	3.7%	YES	100	100	0.0	0.0%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W11/F25	13.3	12.6	0.7	5.3%	YES												
			LKD	W12/F25	13.2	12.2	1	7.6%	YES												
			LKD	W13/F25	33	33	0	0.0%	YES												
			LKD	W14/F25	33.9	33.9	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F25	39.1	38.9	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W16/F25	39.2	38.9	0.3	0.8%	YES												
			LKD	W17/F25	39.2	38.9	0.3	0.8%	YES												
			LKD	W18/F25	36.4	20.8	15.6	42.9%	NO												
			LKD	W19/F25	35.9	20.3	15.6	43.5%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F25	35.3	19.7	15.6	44.2%	NO	98.7	74.9	2.4	24.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F25	34.6	19.4	15.2	43.9%	NO	95.8	53.4	4.0	44.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F25	33.7	18.9	14.8	43.9%	NO	97.5	51.2	5.2	47.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F25 / INC (2)	35.5	20.3	15.2	42.8%	NO	98.7	46.9	5.8	52.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F25 / INC (2)	35	20	15	42.9%	NO	95.5	56.3	4.0	41.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F25 / INC (2)	34.3	19.8	14.5	42.3%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F25 / INC (2)	33.8	19.6	14.2	42.0%	NO												
F26	R1	RESIDENTIAL	LKD	W1/F26	9.9	9.9	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	46	13	33.3%	43.5%	YES
			LKD	W2/F26	11.2	11.2	0	0.0%	YES												
			LKD	W3/F26	11.8	11.8	0	0.0%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W24/F26 / INC (2)	32.6	19.1	13.5	41.4%	NO												
			LKD	W25/F26 / INC (2)	30.8	18.2	12.6	40.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F26	12.9	12.9	0	0.0%	YES	62	62	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F26	13.5	13.5	0	0.0%	YES	68.6	68.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F26	12.7	12.7	0	0.0%	YES	57.7	57.7	0.0	0.0%	YES	19	4	19	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F26	13.6	13.5	0.1	0.7%	YES	92.7	92.1	0.1	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F26	13.8	13.2	0.6	4.3%	YES	100	100	0.0	0.0%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W9/F26	13.6	12.9	0.7	5.1%	YES												
			LKD	W10/F26	13.5	12.6	0.9	6.7%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W11/F26	33.1	33.1	0	0.0%	YES												
			LKD	W12/F26	34	34	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F26	39.2	38.9	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W14/F26	39.3	39	0.3	0.8%	YES												
			LKD	W15/F26	36.4	20.9	15.5	42.6%	NO												
			LKD	W16/F26	35.9	20.4	15.5	43.2%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F26	35.4	19.9	15.5	43.8%	NO	98.7	87	1.2	11.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F26	35.1	19.7	15.4	43.9%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F26	34.5	19.4	15.1	43.8%	NO	93.3	62.1	3.0	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F26	33.7	19	14.7	43.6%	NO	94.7	67.3	3.1	29.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F26 / INC (2)	35.4	20.4	15	42.4%	NO	97.2	57.9	4.4	40.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F26 / INC (2)	34.8	20.1	14.7	42.2%	NO	91.5	62.8	3.0	31.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F26 / INC (2)	33.9	19.7	14.2	41.9%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F27	R1	RESIDENTIAL	LKD	W1/F27	10.3	10.3	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	46	13	33.3%	43.5%	YES
			LKD	W2/F27	11.5	11.5	0	0.0%	YES												
			LKD	W3/F27	12.2	12.2	0	0.0%	YES												
			LKD	W27/F27 / INC (2)	32.7	19.2	13.5	41.3%	NO												
			LKD	W28/F27 / INC (2)	30.9	18.3	12.6	40.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F27 / INC (2)	13.4	13.4	0	0.0%	YES	66.7	66.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F27 / INC (2)	13.8	13.8	0	0.0%	YES	88.9	88.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F27 / INC (2)	14	14	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F27	12.9	12.9	0	0.0%	YES	75.3	75.3	0.0	0.0%	YES	21	5	21	5	0.0%	0.0%	YES
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W8/F27	13.2	13.2	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F27	13.9	13.9	0	0.0%	YES	93.1	92.5	0.1	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F27	14.1	13.6	0.5	3.5%	YES	100	100	0.0	0.0%	YES	27	6	26	6	3.7%	0.0%	YES
			LKD	W11/F27	14	13.3	0.7	5.0%	YES												
			LKD	W12/F27	13.8	12.9	0.9	6.5%	YES												
			LKD	W13/F27	33.2	33.2	0	0.0%	YES												
			LKD	W14/F27	34.1	34.1	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F27	39.2	38.9	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W16/F27	39.2	39	0.2	0.5%	YES												
			LKD	W17/F27	39.3	39	0.3	0.8%	YES												
			LKD	W18/F27	36.5	21	15.5	42.5%	NO												
			LKD	W19/F27	36	20.5	15.5	43.1%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R8	RESIDENTIAL	BEDROOM	W20/F27	35.3	19.9	15.4	43.6%	NO	98.7	74.8	2.4	24.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F27	34.7	19.6	15.1	43.5%	NO	95.8	53.5	4.0	44.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F27	33.8	19.1	14.7	43.5%	NO	97.5	51.4	5.2	47.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F27 / INC (2)	35.5	20.5	15	42.3%	NO	98.7	47	5.8	52.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F27 / INC (2)	35	20.2	14.8	42.3%	NO	95.5	56.4	4.0	40.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F27 / INC (2)	34.3	20	14.3	41.7%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F27 / INC (2)	33.9	19.8	14.1	41.6%	NO												
F28	R1	RESIDENTIAL	LKD	W1/F28	10.7	10.7	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	46	13	33.3%	43.5%	YES
			LKD	W2/F28	11.9	11.9	0	0.0%	YES												
			LKD	W3/F28	12.6	12.6	0	0.0%	YES												
			LKD	W24/F28 / INC (2)	32.7	19.3	13.4	41.0%	NO												
			LKD	W25/F28 / INC (2)	30.9	18.4	12.5	40.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F28	13.7	13.7	0	0.0%	YES	63.6	63.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F28	14.3	14.3	0	0.0%	YES	70	70	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F28	13.4	13.4	0	0.0%	YES	59.1	59.1	0.0	0.0%	YES	20	4	20	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F28	14.3	14.3	0	0.0%	YES	93.3	92.8	0.1	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F28	14.5	14	0.5	3.4%	YES	100	100	0.0	0.0%	YES	28	6	28	6	0.0%	0.0%	YES
			LKD	W9/F28	14.4	13.7	0.7	4.9%	YES												
			LKD	W10/F28	14.2	13.3	0.9	6.3%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W11/F28	33.4	33.4	0	0.0%	YES												
			LKD	W12/F28	34.3	34.3	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F28	39.2	39	0.2	0.5%	YES	100	99.9	0.0	0.1%	YES	80	28	55	16	31.3%	42.9%	YES
			LKD	W14/F28	39.3	39	0.3	0.8%	YES												
			LKD	W15/F28	36.5	21.1	15.4	42.2%	NO												
			LKD	W16/F28	36	20.6	15.4	42.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F28	35.4	20.1	15.3	43.2%	NO	98.7	86.9	1.2	11.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F28	35.1	19.9	15.2	43.3%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F28	34.5	19.6	14.9	43.2%	NO	93.3	62.1	2.9	33.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F28	33.8	19.2	14.6	43.2%	NO	94.7	67.4	3.1	28.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F28 / INC (2)	35.5	20.6	14.9	42.0%	NO	97.2	58.2	4.3	40.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F28 / INC (2)	34.9	20.3	14.6	41.8%	NO	91.5	62.8	3.0	31.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F28 / INC (2)	34	19.9	14.1	41.5%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F29	R1	RESIDENTIAL	LKD	W1/F29	11.1	11.1	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	46	13	33.3%	43.5%	YES
			LKD	W2/F29	12.4	12.4	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W3/F29	13	13	0	0.0%	YES												
			LKD	W27/F29 / INC (2)	32.7	19.5	13.2	40.4%	NO												
			LKD	W28/F29 / INC (2)	30.9	18.5	12.4	40.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F29 / INC (2)	14.3	14.3	0	0.0%	YES	69.1	69.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F29 / INC (2)	14.7	14.7	0	0.0%	YES	90.6	90.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F29 / INC (2)	15	15	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F29	13.7	13.7	0	0.0%	YES	78.8	78.8	0.0	0.0%	YES	21	5	21	5	0.0%	0.0%	YES
			LKD	W8/F29	14.1	14.1	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F29	14.8	14.7	0.1	0.7%	YES	93.4	93	0.1	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F29	14.9	14.4	0.5	3.4%	YES	100	100	0.0	0.0%	YES	28	6	28	6	0.0%	0.0%	YES
			LKD	W11/F29	14.8	14.1	0.7	4.7%	YES												
			LKD	W12/F29	14.6	13.8	0.8	5.5%	YES												
			LKD	W13/F29	33.6	33.6	0	0.0%	YES												
			LKD	W14/F29	34.5	34.5	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F29	39.2	39	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	56	16	30.0%	42.9%	YES
			LKD	W16/F29	39.3	39	0.3	0.8%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W17/F29	39.3	39	0.3	0.8%	YES												
			LKD	W18/F29	36.5	21.2	15.3	41.9%	NO												
			LKD	W19/F29	36	20.7	15.3	42.5%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F29	35.4	20.1	15.3	43.2%	NO	98.7	74.9	2.4	24.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F29	34.7	19.8	14.9	42.9%	NO	95.8	53.9	4.0	43.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F29	33.9	19.3	14.6	43.1%	NO	97.5	51.4	5.2	47.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F29 / INC (2)	35.6	20.7	14.9	41.9%	NO	98.7	47.1	5.7	52.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F29 / INC (2)	35.1	20.5	14.6	41.6%	NO	95.5	56.7	4.0	40.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F29 / INC (2)	34.4	20.2	14.2	41.3%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F29 / INC (2)	33.9	20	13.9	41.0%	NO												
F30	R1	RESIDENTIAL	LKD	W1/F30	11.5	11.5	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	46	13	33.3%	43.5%	YES
			LKD	W2/F30	12.8	12.8	0	0.0%	YES												
			LKD	W3/F30	13.5	13.5	0	0.0%	YES												
			LKD	W24/F30 / INC (2)	32.8	19.6	13.2	40.2%	NO												
			LKD	W25/F30 / INC (2)	30.9	18.7	12.2	39.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F30	14.7	14.7	0	0.0%	YES	65.7	65.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F30	15.4	15.4	0	0.0%	YES	71.8	71.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F30	14.3	14.3	0	0.0%	YES	60.9	60.9	0.0	0.0%	YES	20	4	20	4	0.0%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R5	RESIDENTIAL	BEDROOM	W7/F30	15.3	15.2	0.1	0.7%	YES	93.4	93	0.1	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F30	15.5	14.9	0.6	3.9%	YES	100	100	0.0	0.0%	YES	28	6	28	6	0.0%	0.0%	YES
			LKD	W9/F30	15.3	14.6	0.7	4.6%	YES												
			LKD	W10/F30	15.1	14.3	0.8	5.3%	YES												
			LKD	W11/F30	33.8	33.8	0	0.0%	YES												
			LKD	W12/F30	34.7	34.7	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F30	39.2	39	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	56	16	30.0%	42.9%	YES
			LKD	W14/F30	39.3	39.1	0.2	0.5%	YES												
			LKD	W15/F30	36.6	21.4	15.2	41.5%	NO												
			LKD	W16/F30	36.1	20.8	15.3	42.4%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F30	35.5	20.3	15.2	42.8%	NO	98.7	87.6	1.1	11.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F30	35.2	20.1	15.1	42.9%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F30	34.6	19.9	14.7	42.5%	NO	93.3	62.2	2.9	33.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R10	RESIDENTIAL	BEDROOM	W20/F30	33.8	19.5	14.3	42.3%	NO	94.7	67.5	3.1	28.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F30 / INC (2)	35.6	20.9	14.7	41.3%	NO	97.2	58.6	4.3	39.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F30 / INC (2)	35	20.6	14.4	41.1%	NO	91.5	63	2.9	31.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F30 / INC (2)	34.1	20.2	13.9	40.8%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F31	R1	RESIDENTIAL	LKD	W1/F31	12	12	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	48	13	30.4%	43.5%	YES
			LKD	W2/F31	13.4	13.4	0	0.0%	YES												
			LKD	W3/F31	14	14	0	0.0%	YES												
			LKD	W27/F31 / INC (2)	32.8	19.8	13	39.6%	NO												
			LKD	W28/F31 / INC (2)	31	18.8	12.2	39.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F31 / INC (2)	15.5	15.5	0	0.0%	YES	72.9	72.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F31 / INC (2)	15.8	15.8	0	0.0%	YES	92.3	92.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F31 / INC (2)	16.1	16.1	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F31	14.7	14.7	0	0.0%	YES	82.6	82.6	0.0	0.0%	YES	21	5	21	5	0.0%	0.0%	YES
			LKD	W8/F31	15.1	15.1	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F31	15.8	15.8	0	0.0%	YES	93.4	93	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F31	16	15.5	0.5	3.1%	YES	100	100	0.0	0.0%	YES	28	6	28	6	0.0%	0.0%	YES
			LKD	W11/F31	15.9	15.2	0.7	4.4%	YES												
			LKD	W12/F31	15.6	14.9	0.7	4.5%	YES												
			LKD	W13/F31	34.1	34.1	0	0.0%	YES												
			LKD	W14/F31	35	35	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F31	39.3	39	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	56	16	30.0%	42.9%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W16/F31	39.3	39.1	0.2	0.5%	YES												
			LKD	W17/F31	39.4	39.1	0.3	0.8%	YES												
			LKD	W18/F31	36.6	21.5	15.1	41.3%	NO												
			LKD	W19/F31	36.1	21	15.1	41.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F31	35.4	20.4	15	42.4%	NO	98.7	75.5	2.4	23.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F31	34.8	20.1	14.7	42.2%	NO	95.8	54.1	4.0	43.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F31	33.9	19.6	14.3	42.2%	NO	97.5	51.5	5.2	47.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F31 / INC (2)	35.7	21	14.7	41.2%	NO	98.7	47.1	5.7	52.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F31 / INC (2)	35.1	20.8	14.3	40.7%	NO	95.5	56.8	4.0	40.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F31 / INC (2)	34.4	20.5	13.9	40.4%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
			BEDROOM	W26/F31 / INC (2)	34	20.3	13.7	40.3%	NO												
F32	R1	RESIDENTIAL	LKD	W1/F32	12.6	12.6	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	48	13	30.4%	43.5%	YES
			LKD	W2/F32	13.9	13.9	0	0.0%	YES												
			LKD	W3/F32	14.6	14.6	0	0.0%	YES												
			LKD	W24/F32 / INC (2)	32.8	19.9	12.9	39.3%	NO												
			LKD	W25/F32 / INC (2)	31	19	12	38.7%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F32	15.9	15.9	0	0.0%	YES	68.4	68.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F32	16.6	16.6	0	0.0%	YES	73.7	73.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F32	15.4	15.4	0	0.0%	YES	62.9	62.9	0.0	0.0%	YES	20	4	20	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F32	16.5	16.4	0.1	0.6%	YES	93.4	93	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F32	16.7	16.2	0.5	3.0%	YES	100	100	0.0	0.0%	YES	28	6	28	6	0.0%	0.0%	YES
			LKD	W9/F32	16.5	15.9	0.6	3.6%	YES												
			LKD	W10/F32	16.3	15.6	0.7	4.3%	YES												
			LKD	W11/F32	34.4	34.4	0	0.0%	YES												
			LKD	W12/F32	35.3	35.3	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F32	39.3	39	0.3	0.8%	YES	100	100	0.0	0.0%	YES	80	28	56	16	30.0%	42.9%	YES
			LKD	W14/F32	39.4	39.1	0.3	0.8%	YES												
			LKD	W15/F32	36.6	21.7	14.9	40.7%	NO												
			LKD	W16/F32	36.1	21.1	15	41.6%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F32	35.6	20.7	14.9	41.9%	NO	98.7	87.7	1.1	11.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F32	35.3	20.5	14.8	41.9%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F32	34.7	20.2	14.5	41.8%	NO	93.3	62.4	2.9	33.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F32	33.9	19.8	14.1	41.6%	NO	94.7	67.7	3.0	28.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F32 / INC (2)	35.6	21.2	14.4	40.4%	NO	97.2	58.7	4.3	39.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R12	RESIDENTIAL	BEDROOM	W22/F32 / INC (2)	35	20.9	14.1	40.3%	NO	91.5	63.1	2.9	31.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F32 / INC (2)	34.1	20.5	13.6	39.9%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F33	R1	RESIDENTIAL	LKD	W1/F33	13.1	13.1	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	49	13	29.0%	43.5%	YES
			LKD	W2/F33	14.5	14.5	0	0.0%	YES												
			LKD	W3/F33	15.3	15.3	0	0.0%	YES												
			LKD	W27/F33 / INC (2)	32.8	20.1	12.7	38.7%	NO												
			LKD	W28/F33 / INC (2)	31	19.2	11.8	38.1%	NO												
DEANSGATE EAST TOWER (CONTINUED)																					
	R2	RESIDENTIAL	BEDROOM	W4/F33 / INC (2)	16.8	16.8	0	0.0%	YES	78.8	78.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F33 / INC (2)	17.2	17.2	0	0.0%	YES	93.5	93.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F33 / INC (2)	17.6	17.6	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F33	15.9	15.9	0	0.0%	YES	86	86	0.0	0.0%	YES	21	5	21	5	0.0%	0.0%	YES
			LKD	W8/F33	16.4	16.4	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F33	17.2	17.2	0	0.0%	YES	93.4	93.1	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F33	17.4	17	0.4	2.3%	YES	100	100	0.0	0.0%	YES	28	6	28	6	0.0%	0.0%	YES
			LKD	W11/F33	17.3	16.7	0.6	3.5%	YES												
			LKD	W12/F33	17.1	16.4	0.7	4.1%	YES												
			LKD	W13/F33	34.7	34.7	0	0.0%	YES												
			LKD	W14/F33	35.6	35.6	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F33	39.3	39.1	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	56	16	30.0%	42.9%	YES
			LKD	W16/F33	39.3	39.1	0.2	0.5%	YES												
			LKD	W17/F33	39.4	39.1	0.3	0.8%	YES												
			LKD	W18/F33	36.6	21.8	14.8	40.4%	NO												
			LKD	W19/F33	36.1	21.3	14.8	41.0%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F33	35.5	20.7	14.8	41.7%	NO	98.7	75.2	2.4	23.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F33	34.8	20.4	14.4	41.4%	NO	95.8	54.1	4.0	43.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F33	34	20	14	41.2%	NO	97.5	51.6	5.2	47.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F33 / INC (2)	35.7	21.4	14.3	40.1%	NO	98.7	47.3	5.7	52.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F33 / INC (2)	35.2	21.2	14	39.8%	NO	95.5	56.9	4.0	40.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F33 / INC (2)	34.5	20.9	13.6	39.4%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F33 / INC (2)	34	20.7	13.3	39.1%	NO												
F34	R1	RESIDENTIAL	LKD	W1/F34	13.7	13.7	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	49	13	29.0%	43.5%	YES
			LKD	W2/F34	15.2	15.2	0	0.0%	YES												
			LKD	W3/F34	16	16	0	0.0%	YES												
			LKD	W24/F34 / INC (2)	32.8	20.3	12.5	38.1%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W25/F34 / INC (2)	31	19.3	11.7	37.7%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F34	17.3	17.3	0	0.0%	YES	69.6	69.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F34	18.2	18.2	0	0.0%	YES	76.4	76.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F34	16.8	16.8	0	0.0%	YES	65.1	65.1	0.0	0.0%	YES	20	4	20	4	0.0%	0.0%	YES
DEANSGATE EAST TOWER (CONTINUED)																					
	R5	RESIDENTIAL	BEDROOM	W7/F34	18	18	0	0.0%	YES	93.4	93.2	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F34	18.3	17.9	0.4	2.2%	YES	100	100	0.0	0.0%	YES	28	6	28	6	0.0%	0.0%	YES
			LKD	W9/F34	18.2	17.7	0.5	2.7%	YES												
			LKD	W10/F34	18	17.3	0.7	3.9%	YES												
			LKD	W11/F34	35.2	35.2	0	0.0%	YES												
			LKD	W12/F34	36	36	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F34	39.3	39.1	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	56	16	30.0%	42.9%	YES
			LKD	W14/F34	39.4	39.1	0.3	0.8%	YES												
			LKD	W15/F34	36.6	22	14.6	39.9%	NO												
			LKD	W16/F34	36.1	21.4	14.7	40.7%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F34	35.6	21	14.6	41.0%	NO	98.7	87.3	1.2	11.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F34	35.3	20.8	14.5	41.1%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F34	34.7	20.5	14.2	40.9%	NO	93.3	62.4	2.9	33.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F34	33.9	20.2	13.7	40.4%	NO	94.8	67.9	3.0	28.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F34 / INC (2)	35.6	21.6	14	39.3%	NO	97.2	58.5	4.3	39.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F34 / INC (2)	35	21.3	13.7	39.1%	NO	91.5	63.3	2.9	30.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F34 / INC (2)	34.1	20.9	13.2	38.7%	NO	98.4	86.6	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F35	R1	RESIDENTIAL	LKD	W1/F35	14.3	14.3	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	49	13	29.0%	43.5%	YES
			LKD	W2/F35	15.8	15.8	0	0.0%	YES												
			LKD	W3/F35	16.7	16.7	0	0.0%	YES												
			LKD	W27/F35 / INC (2)	32.8	20.5	12.3	37.5%	NO												
			LKD	W28/F35 / INC (2)	31	19.6	11.4	36.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F35 / INC (2)	18.4	18.4	0	0.0%	YES	88.6	88.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F35 / INC (2)	18.9	18.9	0	0.0%	YES	94.9	94.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F35 / INC (2)	19.4	19.4	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F35	17.4	17.4	0	0.0%	YES	88.9	88.9	0.0	0.0%	YES	21	5	21	5	0.0%	0.0%	YES
			LKD	W8/F35	17.9	17.9	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F35	18.9	18.8	0.1	0.5%	YES	93.4	93.2	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F35	19.3	18.9	0.4	2.1%	YES	100	100	0.0	0.0%	YES	29	6	29	6	0.0%	0.0%	YES
			LKD	W11/F35	19.2	18.7	0.5	2.6%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W12/F35	19.1	18.4	0.7	3.7%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W13/F35	35.6	35.6	0	0.0%	YES												
			LKD	W14/F35	36.4	36.4	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F35	39.3	39.1	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	57	16	28.8%	42.9%	YES
			LKD	W16/F35	39.3	39.1	0.2	0.5%	YES												
			LKD	W17/F35	39.4	39.1	0.3	0.8%	YES												
			LKD	W18/F35	36.7	22.2	14.5	39.5%	NO												
			LKD	W19/F35	36.2	21.6	14.6	40.3%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F35	35.5	21.1	14.4	40.6%	NO	98.7	74.8	2.5	24.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F35	34.9	20.8	14.1	40.4%	NO	95.8	53.8	4.0	43.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F35	34	20.4	13.6	40.0%	NO	97.5	51.6	5.2	47.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F35 / INC (2)	35.7	21.8	13.9	38.9%	NO	98.7	47.3	5.7	52.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F35 / INC (2)	35.2	21.6	13.6	38.6%	NO	95.5	57	4.0	40.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F35 / INC (2)	34.5	21.3	13.2	38.3%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F35 / INC (2)	34	21.1	12.9	37.9%	NO												
F36	R1	RESIDENTIAL	LKD	W1/F36	14.9	14.9	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	49	13	29.0%	43.5%	YES
			LKD	W2/F36	16.5	16.5	0	0.0%	YES												
			LKD	W3/F36	17.4	17.4	0	0.0%	YES												
			LKD	W24/F36 / INC (2)	32.8	20.8	12	36.6%	NO												
			LKD	W25/F36 / INC (2)	31	19.8	11.2	36.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F36	19	19	0	0.0%	YES	69.9	69.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F36	20	20	0	0.0%	YES	78.9	78.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F36	18.4	18.4	0	0.0%	YES	67.3	67.3	0.0	0.0%	YES	20	4	20	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F36	19.8	19.8	0	0.0%	YES	93.4	93.3	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F36	20.4	20	0.4	2.0%	YES	100	100	0.0	0.0%	YES	29	6	29	6	0.0%	0.0%	YES
			LKD	W9/F36	20.4	19.9	0.5	2.5%	YES												
			LKD	W10/F36	20.3	19.7	0.6	3.0%	YES												
			LKD	W11/F36	36.2	36.2	0	0.0%	YES												
			LKD	W12/F36	36.8	36.8	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F36	39.3	39.1	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	57	16	28.8%	42.9%	YES
			LKD	W14/F36	39.4	39.1	0.3	0.8%	YES												
			LKD	W15/F36	36.7	22.4	14.3	39.0%	NO												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W16/F36	36.2	21.9	14.3	39.5%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R8	RESIDENTIAL	BEDROOM	W17/F36	35.6	21.4	14.2	39.9%	NO	98.7	86.9	1.2	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F36	35.3	21.3	14	39.7%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F36	34.7	21	13.7	39.5%	NO	93.3	63	2.9	32.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F36	33.9	20.7	13.2	38.9%	NO	94.8	68.3	3.0	27.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F36 / INC (2)	35.6	22.1	13.5	37.9%	NO	97.2	58.7	4.3	39.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F36 / INC (2)	35	21.8	13.2	37.7%	NO	91.5	63.7	2.9	30.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F36 / INC (2)	34.1	21.4	12.7	37.2%	NO	98.4	86.6	1.2	11.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F37	R1	RESIDENTIAL	LKD	W1/F37	15.6	15.6	0	0.0%	YES	100	100	0.0	0.0%	YES	69	23	51	13	26.1%	43.5%	YES
			LKD	W2/F37	17.3	17.3	0	0.0%	YES												
			LKD	W3/F37	18.2	18.2	0	0.0%	YES												
			LKD	W27/F37 / INC (2)	32.8	21.1	11.7	35.7%	NO												
			LKD	W28/F37 / INC (2)	31	20.1	10.9	35.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F37 / INC (2)	20.2	20.2	0	0.0%	YES	91.9	91.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F37 / INC (2)	20.9	20.9	0	0.0%	YES	95.2	95.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F37 / INC (2)	21.4	21.4	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F37	19.1	19.1	0	0.0%	YES	92.3	92.3	0.0	0.0%	YES	22	5	22	5	0.0%	0.0%	YES
			LKD	W8/F37	19.8	19.8	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F37	20.9	20.9	0	0.0%	YES	93.4	93.3	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F37	21.6	21.3	0.3	1.4%	YES	100	100	0.0	0.0%	YES	30	6	30	6	0.0%	0.0%	YES
			LKD	W11/F37	21.7	21.3	0.4	1.8%	YES												
			LKD	W12/F37	21.7	21.2	0.5	2.3%	YES												
			LKD	W13/F37	36.8	36.8	0	0.0%	YES												
			LKD	W14/F37	37.3	37.3	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F37	39.3	39.1	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	59	16	26.3%	42.9%	YES
			LKD	W16/F37	39.3	39.1	0.2	0.5%	YES												
			LKD	W17/F37	39.4	39.1	0.3	0.8%	YES												
			LKD	W18/F37	36.7	22.7	14	38.1%	NO												
			LKD	W19/F37	36.2	22.1	14.1	39.0%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F37	35.5	21.6	13.9	39.2%	NO	98.7	74.7	2.5	24.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F37	34.9	21.3	13.6	39.0%	NO	95.8	54.5	3.9	43.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R10	RESIDENTIAL	BEDROOM	W22/F37	34	20.9	13.1	38.5%	NO	97.5	52.3	5.1	46.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F37 / INC (2)	35.7	22.4	13.3	37.3%	NO	98.7	47.7	5.7	51.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F37 / INC (2)	35.2	22.1	13.1	37.2%	NO	95.5	57.8	3.9	39.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F37 / INC (2)	34.5	21.8	12.7	36.8%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			BEDROOM	W26/F37 / INC (2)	34	21.6	12.4	36.5%	NO												
F38	R1	RESIDENTIAL	LKD	W1/F38	16.2	16.2	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	53	13	24.3%	43.5%	YES
			LKD	W2/F38	18	18	0	0.0%	YES												
			LKD	W3/F38	19	19	0	0.0%	YES												
			LKD	W24/F38 / INC (2)	32.8	21.4	11.4	34.8%	NO												
			LKD	W25/F38 / INC (2)	31	20.4	10.6	34.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F38	20.8	20.8	0	0.0%	YES	69.9	69.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F38	22	22	0	0.0%	YES	80	80	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F38	20.2	20.2	0	0.0%	YES	69.6	69.6	0.0	0.0%	YES	21	4	21	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F38	22	21.9	0.1	0.5%	YES	93.4	93.3	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F38	22.9	22.6	0.3	1.3%	YES	100	100	0.0	0.0%	YES	30	6	30	6	0.0%	0.0%	YES
			LKD	W9/F38	23.1	22.7	0.4	1.7%	YES												
			LKD	W10/F38	23.3	22.8	0.5	2.1%	YES												
			LKD	W11/F38	37.4	37.4	0	0.0%	YES												
			LKD	W12/F38	37.8	37.8	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F38	39.3	39.1	0.2	0.5%	YES	100	99.9	0.0	0.1%	YES	80	28	59	16	26.3%	42.9%	YES
			LKD	W14/F38	39.4	39.1	0.3	0.8%	YES												
			LKD	W15/F38	36.7	23	13.7	37.3%	NO												
			LKD	W16/F38	36.2	22.4	13.8	38.1%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F38	35.7	22	13.7	38.4%	NO	98.7	86.1	1.3	12.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F38	35.4	21.9	13.5	38.1%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F38	34.7	21.6	13.1	37.8%	NO	93.3	63.7	2.8	31.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F38	33.9	21.3	12.6	37.2%	NO	94.9	69	2.9	27.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F38 / INC (2)	35.7	22.7	13	36.4%	NO	97.2	59.2	4.2	39.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F38 / INC (2)	35.1	22.4	12.7	36.2%	NO	91.5	64.8	2.8	29.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F38 / INC (2)	34.2	22	12.2	35.7%	NO	98.4	87	1.2	11.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F39	R1	RESIDENTIAL	LKD	W1/F39	16.8	16.8	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	53	13	24.3%	43.5%	YES
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W2/F39	18.6	18.6	0	0.0%	YES												
			LKD	W3/F39	19.7	19.7	0	0.0%	YES												
			LKD	W27/F39 / INC (2)	32.9	21.8	11.1	33.7%	NO												
			LKD	W28/F39 / INC (2)	31	20.8	10.2	32.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F39 / INC (2)	22	22	0	0.0%	YES	91.9	91.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F39 / INC (2)	22.7	22.7	0	0.0%	YES	95.2	95.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F39 / INC (2)	23.4	23.4	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R4 (3)	RESIDENTIAL	LKD	W7/F39	20.8	20.8	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	24	5	24	5	0.0%	0.0%	YES
			LKD	W8/F39	21.6	21.6	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F39	23	23	0	0.0%	YES	93.4	93.4	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F39	24.2	23.9	0.3	1.2%	YES	100	100	0.0	0.0%	YES	31	6	31	6	0.0%	0.0%	YES
			LKD	W11/F39	24.5	24.1	0.4	1.6%	YES												
			LKD	W12/F39	24.9	24.4	0.5	2.0%	YES												
			LKD	W13/F39	37.9	37.9	0	0.0%	YES												
			LKD	W14/F39	38.1	38.1	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F39	39.3	39.1	0.2	0.5%	YES	100	99.9	0.0	0.1%	YES	80	28	62	16	22.5%	42.9%	YES
			LKD	W16/F39	39.3	39.1	0.2	0.5%	YES												
			LKD	W17/F39	39.4	39.1	0.3	0.8%	YES												
			LKD	W18/F39	36.7	23.3	13.4	36.5%	NO												
			LKD	W19/F39	36.2	22.8	13.4	37.0%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F39	35.6	22.3	13.3	37.4%	NO	98.7	74.5	2.5	24.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F39	34.9	22	12.9	37.0%	NO	95.8	55.5	3.8	42.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F39	34.1	21.6	12.5	36.7%	NO	97.5	53.5	4.9	45.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F39 / INC (2)	35.7	23.1	12.6	35.3%	NO	98.7	49	5.5	50.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F39 / INC (2)	35.2	22.9	12.3	34.9%	NO	95.5	59	3.8	38.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F39 / INC (2)	34.5	22.6	11.9	34.5%	NO	99.5	93.7	0.6	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F39 / INC (2)	34.1	22.4	11.7	34.3%	NO												
F40	R1	RESIDENTIAL	LKD	W1/F40	17.2	17.2	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	53	13	24.3%	43.5%	YES
			LKD	W2/F40	19.1	19.1	0	0.0%	YES												
			LKD	W3/F40	20.3	20.3	0	0.0%	YES												
			LKD	W24/F40 / INC (2)	32.9	22.2	10.7	32.5%	NO												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W25/F40 / INC (2)	31	21.2	9.8	31.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F40	22.3	22.3	0	0.0%	YES	69.9	69.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F40	23.7	23.7	0	0.0%	YES	80.6	80.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F40	21.8	21.8	0	0.0%	YES	71.7	71.7	0.0	0.0%	YES	24	4	24	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F40	23.9	23.9	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F40	25.3	25	0.3	1.2%	YES	100	100	0.0	0.0%	YES	33	6	33	6	0.0%	0.0%	YES
			LKD	W9/F40	25.8	25.4	0.4	1.6%	YES												
			LKD	W10/F40	26.3	25.8	0.5	1.9%	YES												
			LKD	W11/F40	38.3	38.3	0	0.0%	YES												
			LKD	W12/F40	38.5	38.5	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R7	RESIDENTIAL	LKD	W13/F40	39.3	39.1	0.2	0.5%	YES	100	99.9	0.0	0.1%	YES	80	28	62	16	22.5%	42.9%	YES
			LKD	W14/F40	39.4	39.2	0.2	0.5%	YES												
			LKD	W15/F40	36.8	23.8	13	35.3%	NO												
			LKD	W16/F40	36.3	23.3	13	35.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F40	35.7	22.9	12.8	35.9%	NO	98.7	86.7	1.2	12.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F40	35.4	22.7	12.7	35.9%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F40	34.8	22.4	12.4	35.6%	NO	93.4	65	2.7	30.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F40	34	22.1	11.9	35.0%	NO	94.9	70.4	2.8	25.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F40 / INC (2)	35.7	23.5	12.2	34.2%	NO	97.2	60.7	4.1	37.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F40 / INC (2)	35.1	23.3	11.8	33.6%	NO	91.5	66	2.6	27.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F40 / INC (2)	34.2	22.9	11.3	33.0%	NO	98.4	87.6	1.1	11.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F41	R1	RESIDENTIAL	LKD	W1/F41	17.6	17.6	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	56	13	20.0%	43.5%	YES
			LKD	W2/F41	19.6	19.6	0	0.0%	YES												
			LKD	W3/F41	20.8	20.8	0	0.0%	YES												
			LKD	W27/F41 / INC (2)	32.9	22.7	10.2	31.0%	NO												
			LKD	W28/F41 / INC (2)	31.1	21.7	9.4	30.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F41 / INC (2)	23.3	23.3	0	0.0%	YES	91.9	91.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F41 / INC (2)	24.2	24.2	0	0.0%	YES	95.3	95.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F41 / INC (2)	24.9	24.9	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F41	22.2	22.2	0	0.0%	YES	93.7	93.7	0.0	0.0%	YES	25	5	25	5	0.0%	0.0%	YES
			LKD	W8/F41	23.1	23.1	0	0.0%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
	R5	RESIDENTIAL	BEDROOM	W9/F41	24.7	24.7	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F41	26.3	26.1	0.2	0.8%	YES	100	100	0.0	0.0%	YES	34	6	34	6	0.0%	0.0%	YES
			LKD	W11/F41	26.9	26.6	0.3	1.1%	YES												
			LKD	W12/F41	27.5	27.1	0.4	1.5%	YES												
			LKD	W13/F41	38.7	38.7	0	0.0%	YES												
			LKD	W14/F41	38.8	38.8	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F41	39.3	39.1	0.2	0.5%	YES	100	99.9	0.0	0.1%	YES	80	28	62	16	22.5%	42.9%	YES
			LKD	W16/F41	39.3	39.2	0.1	0.3%	YES												
			LKD	W17/F41	39.4	39.2	0.2	0.5%	YES												
			LKD	W18/F41	36.8	24.3	12.5	34.0%	NO												
			LKD	W19/F41	36.3	23.8	12.5	34.4%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F41	35.6	23.3	12.3	34.6%	NO	98.7	75	2.4	24.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F41	35	23	12	34.3%	NO	95.8	57.6	3.6	39.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R10	RESIDENTIAL	BEDROOM	W22/F41	34.1	22.6	11.5	33.7%	NO	97.5	55.3	4.7	43.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F41 / INC (2)	35.8	24.1	11.7	32.7%	NO	98.7	50.8	5.3	48.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F41 / INC (2)	35.2	23.9	11.3	32.1%	NO	95.5	60.8	3.6	36.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F41 / INC (2)	34.5	23.6	10.9	31.6%	NO	99.5	93.7	0.6	5.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F41 / INC (2)	34.1	23.3	10.8	31.7%	NO												
F42	R1	RESIDENTIAL	LKD	W1/F42	17.8	17.8	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	57	14	18.6%	39.1%	YES
			LKD	W2/F42	19.8	19.8	0	0.0%	YES												
			LKD	W3/F42	21	21	0	0.0%	YES												
			LKD	W24/F42 / INC (2)	32.9	23.3	9.6	29.2%	NO												
			LKD	W25/F42 / INC (2)	31.1	22.3	8.8	28.3%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F42	23.1	23.1	0	0.0%	YES	70	70	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F42	24.7	24.7	0	0.0%	YES	80.9	80.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F42	22.8	22.8	0	0.0%	YES	72.5	72.5	0.0	0.0%	YES	24	4	24	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F42	25.1	25.1	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F42	26.7	26.5	0.2	0.7%	YES	100	100	0.0	0.0%	YES	34	6	34	6	0.0%	0.0%	YES
			LKD	W9/F42	27.4	27.1	0.3	1.1%	YES												
			LKD	W10/F42	28	27.7	0.3	1.1%	YES												
			LKD	W11/F42	38.9	38.9	0	0.0%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W12/F42	38.9	38.9	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F42	39.3	39.1	0.2	0.5%	YES	100	100	0.0	0.0%	YES	80	28	63	16	21.3%	42.9%	YES
			LKD	W14/F42	39.4	39.2	0.2	0.5%	YES												
			LKD	W15/F42	36.8	24.9	11.9	32.3%	NO												
			LKD	W16/F42	36.3	24.4	11.9	32.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F42	35.8	24	11.8	33.0%	NO	98.7	87.3	1.2	11.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F42	35.5	23.8	11.7	33.0%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F42	34.8	23.5	11.3	32.5%	NO	93.5	67.7	2.4	27.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F42	34	23.2	10.8	31.8%	NO	95	72.4	2.5	23.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F42 / INC (2)	35.7	24.7	11	30.8%	NO	97.2	63.4	3.8	34.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F42 / INC (2)	35.1	24.4	10.7	30.5%	NO	91.5	68.4	2.4	25.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F42 / INC (2)	34.2	24	10.2	29.8%	NO	98.4	89	1.0	9.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F43	R1	RESIDENTIAL	LKD	W1/F43	17.9	17.9	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	58	14	17.1%	39.1%	YES
			LKD	W2/F43	19.9	19.9	0	0.0%	YES												
			LKD	W3/F43	21.1	21.1	0	0.0%	YES												
			LKD	W27/F43 / INC (2)	32.9	24	8.9	27.1%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W28/F43 / INC (2)	31.1	22.9	8.2	26.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F43 / INC (2)	23.8	23.8	0	0.0%	YES	91.9	91.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F43 / INC (2)	24.6	24.6	0	0.0%	YES	95.3	95.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F43 / INC (2)	25.4	25.4	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F43	22.7	22.7	0	0.0%	YES	93.7	93.7	0.0	0.0%	YES	25	5	25	5	0.0%	0.0%	YES
			LKD	W8/F43	23.7	23.7	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F43	25.3	25.3	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F43	27	26.8	0.2	0.7%	YES	100	100	0.0	0.0%	YES	34	6	34	6	0.0%	0.0%	YES
			LKD	W11/F43	27.6	27.3	0.3	1.1%	YES												
			LKD	W12/F43	28.3	28	0.3	1.1%	YES												
			LKD	W13/F43	39	39	0	0.0%	YES												
			LKD	W14/F43	39	39	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F43	39.3	39.2	0.1	0.3%	YES	100	100	0.0	0.0%	YES	80	28	65	16	18.8%	42.9%	YES
			LKD	W16/F43	39.3	39.2	0.1	0.3%	YES												
			LKD	W17/F43	39.4	39.2	0.2	0.5%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W18/F43	36.8	25.6	11.2	30.4%	NO												
			LKD	W19/F43	36.3	25.1	11.2	30.9%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F43	35.7	24.6	11.1	31.1%	NO	98.7	76.8	2.3	22.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F43	35	24.3	10.7	30.6%	NO	95.8	61.2	3.3	36.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F43	34.2	23.9	10.3	30.1%	NO	97.5	58.2	4.4	40.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F43 / INC (2)	35.8	25.4	10.4	29.1%	NO	98.7	54.2	5.0	45.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F43 / INC (2)	35.3	25.1	10.2	28.9%	NO	95.5	64.4	3.2	32.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F43 / INC (2)	34.6	24.8	9.8	28.3%	NO	99.5	94.2	0.5	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F43 / INC (2)	34.1	24.6	9.5	27.9%	NO												
F44	R1	RESIDENTIAL	LKD	W1/F44	18	18	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	58	14	17.1%	39.1%	YES
			LKD	W2/F44	20	20	0	0.0%	YES												
			LKD	W3/F44	21.3	21.3	0	0.0%	YES												
			LKD	W24/F44 / INC (2)	32.9	24.7	8.2	24.9%	NO												
			LKD	W25/F44 / INC (2)	31.1	23.6	7.5	24.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F44	23.5	23.5	0	0.0%	YES	70.1	70.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F44	25	25	0	0.0%	YES	81.2	81.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F44	23.1	23.1	0	0.0%	YES	73	73	0.0	0.0%	YES	24	4	24	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F44	25.5	25.5	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F44	27.2	27	0.2	0.7%	YES	100	100	0.0	0.0%	YES	35	6	35	6	0.0%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W9/F44	27.8	27.6	0.2	0.7%	YES												
			LKD	W10/F44	28.5	28.2	0.3	1.1%	YES												
			LKD	W11/F44	39.1	39.1	0	0.0%	YES												
			LKD	W12/F44	39.1	39.1	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F44	39.3	39.2	0.1	0.3%	YES	100	100	0.0	0.0%	YES	80	28	66	16	17.5%	42.9%	YES
			LKD	W14/F44	39.4	39.2	0.2	0.5%	YES												
			LKD	W15/F44	36.9	26.4	10.5	28.5%	NO												
			LKD	W16/F44	36.4	25.9	10.5	28.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F44	35.8	25.5	10.3	28.8%	NO	98.8	88.4	1.1	10.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F44	35.5	25.3	10.2	28.7%	NO												
	R9	RESIDENTIAL	BEDROOM	W19/F44	34.9	25	9.9	28.4%	NO	93.6	72	2.0	23.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F44	34.1	24.7	9.4	27.6%	NO	95.1	75.7	2.2	20.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R11	RESIDENTIAL	BEDROOM	W21/F44 / INC (2)	35.7	26.2	9.5	26.6%	NO	97.3	67.9	3.3	30.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F44 / INC (2)	35.2	25.9	9.3	26.4%	NO	91.5	71.8	2.0	21.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F44 / INC (2)	34.3	25.4	8.9	25.9%	NO	98.4	91.6	0.7	6.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F45	R1	RESIDENTIAL	LKD	W1/F45	18.1	18.1	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	61	15	12.9%	34.8%	YES
			LKD	W2/F45	20.2	20.2	0	0.0%	YES												
			LKD	W3/F45	21.4	21.4	0	0.0%	YES												
			LKD	W27/F45 / INC (2)	33	25.5	7.5	22.7%	NO												
			LKD	W28/F45 / INC (2)	31.1	24.3	6.8	21.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F45 / INC (2)	24.1	24.1	0	0.0%	YES	92	92	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F45 / INC (2)	25	25	0	0.0%	YES	95.3	95.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F45 / INC (2)	25.7	25.7	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F45	23	23	0	0.0%	YES	93.7	93.7	0.0	0.0%	YES	25	5	25	5	0.0%	0.0%	YES
			LKD	W8/F45	24	24	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F45	25.7	25.7	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F45	27.4	27.3	0.1	0.4%	YES	100	100	0.0	0.0%	YES	35	6	35	6	0.0%	0.0%	YES
			LKD	W11/F45	28.1	27.9	0.2	0.7%	YES												
			LKD	W12/F45	28.8	28.5	0.3	1.0%	YES												
			LKD	W13/F45	39.2	39.2	0	0.0%	YES												
			LKD	W14/F45	39.2	39.2	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F45	39.3	39.2	0.1	0.3%	YES	100	100	0.0	0.0%	YES	80	28	68	17	15.0%	39.3%	YES
			LKD	W16/F45	39.4	39.2	0.2	0.5%	YES												
			LKD	W17/F45	39.4	39.3	0.1	0.3%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W18/F45	36.9	27.3	9.6	26.0%	YES												
			LKD	W19/F45	36.4	26.8	9.6	26.4%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F45	35.8	26.3	9.5	26.5%	NO	98.8	80.6	1.9	18.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F45	35.1	26	9.1	25.9%	NO	95.8	68.6	2.6	28.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F45	34.2	25.5	8.7	25.4%	NO	97.5	64.6	3.7	33.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F45 / INC (2)	35.8	27	8.8	24.6%	YES	98.7	60.6	4.2	38.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F45 / INC (2)	35.3	26.8	8.5	24.1%	NO	95.5	72	2.4	24.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F45 / INC (2)	34.6	26.4	8.2	23.7%	NO	99.5	96.1	0.3	3.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F45 / INC (2)	34.2	26.2	8	23.4%	NO												
DEANSGATE EAST TOWER (CONTINUED)																					
F46	R1	RESIDENTIAL	LKD	W1/F46	18.3	18.3	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	62	15	11.4%	34.8%	YES
			LKD	W2/F46	20.3	20.3	0	0.0%	YES												
			LKD	W3/F46	21.6	21.6	0	0.0%	YES												
			LKD	W24/F46 / INC (2)	33	26.4	6.6	20.0%	YES												
			LKD	W25/F46 / INC (2)	31.2	25.2	6	19.2%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F46	23.8	23.8	0	0.0%	YES	70.3	70.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F46	25.4	25.4	0	0.0%	YES	81.6	81.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F46	23.5	23.5	0	0.0%	YES	73.4	73.4	0.0	0.0%	YES	24	4	24	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F46	25.9	25.9	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F46	27.6	27.5	0.1	0.4%	YES	100	100	0.0	0.0%	YES	36	6	36	6	0.0%	0.0%	YES
			LKD	W9/F46	28.3	28.1	0.2	0.7%	YES												
			LKD	W10/F46	29	28.8	0.2	0.7%	YES												
			LKD	W11/F46	39.3	39.3	0	0.0%	YES												
			LKD	W12/F46	39.3	39.3	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F46	39.3	39.2	0.1	0.3%	YES	100	100	0.0	0.0%	YES	80	28	70	18	12.5%	35.7%	YES
			LKD	W14/F46	39.4	39.3	0.1	0.3%	YES												
			LKD	W15/F46	37	28.3	8.7	23.5%	YES												
			LKD	W16/F46	36.5	27.8	8.7	23.8%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F46	35.9	27.4	8.5	23.7%	YES	98.8	90.4	0.9	8.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F46	35.6	27.2	8.4	23.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W19/F46	35	26.9	8.1	23.1%	NO	93.7	80.2	1.3	14.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F46	34.2	26.5	7.7	22.5%	NO	95.2	82.5	1.4	13.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F46 / INC (2)	35.8	28	7.8	21.8%	YES	97.4	75.4	2.5	22.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F46 / INC (2)	35.2	27.7	7.5	21.3%	YES	91.5	79.4	1.3	13.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F46 / INC (2)	34.3	27.2	7.1	20.7%	YES	98.4	96.9	0.2	1.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F47	R1	RESIDENTIAL	LKD	W1/F47	18.4	18.4	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	64	17	8.6%	26.1%	YES
			LKD	W2/F47	20.5	20.5	0	0.0%	YES												
			LKD	W3/F47	21.7	21.7	0	0.0%	YES												
			LKD	W27/F47 / INC (2)	33	27.3	5.7	17.3%	YES												
			LKD	W28/F47 / INC (2)	31.2	26	5.2	16.7%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F47 / INC (2)	24.4	24.4	0	0.0%	YES	92	92	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R3	RESIDENTIAL	LKD	W5/F47 / INC (2)	25.3	25.3	0	0.0%	YES	95.3	95.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F47 / INC (2)	26.1	26.1	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F47	23.4	23.4	0	0.0%	YES	93.7	93.7	0.0	0.0%	YES	25	5	25	5	0.0%	0.0%	YES
			LKD	W8/F47	24.5	24.5	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F47	26.1	26.1	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F47	27.9	27.8	0.1	0.4%	YES	100	100	0.0	0.0%	YES	38	6	38	6	0.0%	0.0%	YES
			LKD	W11/F47	28.6	28.4	0.2	0.7%	YES												
			LKD	W12/F47	29.3	29.1	0.2	0.7%	YES												
			LKD	W13/F47	39.4	39.4	0	0.0%	YES												
			LKD	W14/F47	39.4	39.4	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F47	39.3	39.2	0.1	0.3%	YES	100	100	0.0	0.0%	YES	80	28	71	19	11.3%	32.1%	YES
			LKD	W16/F47	39.4	39.3	0.1	0.3%	YES												
			LKD	W17/F47	39.4	39.3	0.1	0.3%	YES												
			LKD	W18/F47	37	29.5	7.5	20.3%	YES												
			LKD	W19/F47	36.5	29	7.5	20.5%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F47	35.9	28.5	7.4	20.6%	YES	98.8	89.7	0.9	9.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F47	35.2	28.1	7.1	20.2%	YES	95.9	84.1	1.1	12.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F47	34.3	27.6	6.7	19.5%	YES	97.5	78.4	2.2	19.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F47 / INC (2)	35.9	29.1	6.8	18.9%	YES	98.7	74.6	2.7	24.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F47 / INC (2)	35.4	28.8	6.6	18.6%	YES	95.5	86.9	0.9	9.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F47 / INC (2)	34.7	28.4	6.3	18.2%	YES	99.5	99.2	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F47 / INC (2)	34.2	28.1	6.1	17.8%	YES												
F48	R1	RESIDENTIAL	LKD	W1/F48	18.6	18.6	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	66	19	5.7%	17.4%	YES
			LKD	W2/F48	20.6	20.6	0	0.0%	YES												
			LKD	W3/F48	21.9	21.9	0	0.0%	YES												
			LKD	W24/F48 / INC (2)	33.1	28.4	4.7	14.2%	YES												
			LKD	W25/F48 / INC (2)	31.2	27	4.2	13.5%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F48	24.1	24.1	0	0.0%	YES	70.5	70.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	LKD	W5/F48	25.7	25.7	0	0.0%	YES	81.9	81.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F48	23.9	23.9	0	0.0%	YES	73.5	73.5	0.0	0.0%	YES	24	4	24	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F48	26.4	26.4	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R6	RESIDENTIAL	LKD	W8/F48	28.1	28.1	0	0.0%	YES	100	100	0.0	0.0%	YES	39	6	39	6	0.0%	0.0%	YES
			LKD	W9/F48	28.8	28.7	0.1	0.3%	YES												
			LKD	W10/F48	29.6	29.4	0.2	0.7%	YES												
			LKD	W11/F48	39.5	39.5	0	0.0%	YES												
			LKD	W12/F48	39.5	39.5	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F48	39.3	39.3	0	0.0%	YES	100	100	0.0	0.0%	YES	80	28	73	21	8.8%	25.0%	YES
			LKD	W14/F48	39.4	39.4	0	0.0%	YES												
			LKD	W15/F48	37.1	30.8	6.3	17.0%	YES												
			LKD	W16/F48	36.6	30.3	6.3	17.2%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F48	36	29.8	6.2	17.2%	YES	98.8	98.7	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F48	35.7	29.6	6.1	17.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W19/F48	35.1	29.2	5.9	16.8%	YES	93.8	93.2	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F48	34.3	28.7	5.6	16.3%	YES	95.4	93.5	0.2	2.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F48 / INC (2)	35.9	30.3	5.6	15.6%	YES	97.4	89.9	0.8	7.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F48 / INC (2)	35.3	29.9	5.4	15.3%	YES	91.6	90.2	0.1	1.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F48 / INC (2)	34.4	29.3	5.1	14.8%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F49	R1	RESIDENTIAL	LKD	W1/F49	18.7	18.7	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	67	20	4.3%	13.0%	YES
			LKD	W2/F49	20.7	20.7	0	0.0%	YES												
			LKD	W3/F49	22	22	0	0.0%	YES												
			LKD	W27/F49 / INC (2)	33.1	29.4	3.7	11.2%	YES												
			LKD	W28/F49 / INC (2)	31.3	27.9	3.4	10.9%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F49 / INC (2)	24.8	24.8	0	0.0%	YES	92.1	92.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F49 / INC (2)	25.7	25.7	0	0.0%	YES	95.4	95.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F49 / INC (2)	26.5	26.5	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F49	23.8	23.8	0	0.0%	YES	93.8	93.8	0.0	0.0%	YES	25	5	25	5	0.0%	0.0%	YES
			LKD	W8/F49	24.9	24.9	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F49	26.6	26.6	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F49	28.3	28.3	0	0.0%	YES	100	100	0.0	0.0%	YES	39	6	39	6	0.0%	0.0%	YES
			LKD	W11/F49	29	29	0	0.0%	YES												
			LKD	W12/F49	29.8	29.7	0.1	0.3%	YES												
			LKD	W13/F49	39.5	39.5	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W14/F49	39.5	39.5	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F49	39.3	39.3	0	0.0%	YES	100	100	0.0	0.0%	YES	80	28	75	23	6.3%	17.9%	YES
			LKD	W16/F49	39.4	39.3	0.1	0.3%	YES												
			LKD	W17/F49	39.5	39.4	0.1	0.3%	YES												
			LKD	W18/F49	37.1	32.1	5	13.5%	YES												
			LKD	W19/F49	36.6	31.6	5	13.7%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F49	36	31.1	4.9	13.6%	YES	98.9	98.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F49	35.3	30.6	4.7	13.3%	YES	96	96	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F49	34.5	30	4.5	13.0%	YES	97.6	96.6	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F49 / INC (2)	36	31.5	4.5	12.5%	YES	98.7	98.1	0.1	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F49 / INC (2)	35.5	31.2	4.3	12.1%	YES	95.5	95.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F49 / INC (2)	34.8	30.7	4.1	11.8%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F49 / INC (2)	34.3	30.4	3.9	11.4%	YES												
F50	R1	RESIDENTIAL	LKD	W1/F50	18.8	18.8	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	70	23	0.0%	0.0%	YES
			LKD	W2/F50	20.9	20.9	0	0.0%	YES												
			LKD	W3/F50	22.2	22.2	0	0.0%	YES												
			LKD	W24/F50 / INC (2)	33.2	30.5	2.7	8.1%	YES												
			LKD	W25/F50 / INC (2)	31.3	28.9	2.4	7.7%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F50	24.4	24.4	0	0.0%	YES	71	71	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F50	26	26	0	0.0%	YES	82.1	82.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W6/F50	24.3	24.3	0	0.0%	YES	73.8	73.8	0.0	0.0%	YES	26	4	26	4	0.0%	0.0%	YES
	R5	RESIDENTIAL	BEDROOM	W7/F50	26.8	26.8	0	0.0%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W8/F50	28.6	28.5	0.1	0.3%	YES	100	100	0.0	0.0%	YES	40	6	40	6	0.0%	0.0%	YES
			LKD	W9/F50	29.3	29.2	0.1	0.3%	YES												
			LKD	W10/F50	30	29.9	0.1	0.3%	YES												
			LKD	W11/F50	39.5	39.5	0	0.0%	YES												
			LKD	W12/F50	39.5	39.5	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W13/F50	39.4	39.3	0.1	0.3%	YES	100	100	0.0	0.0%	YES	80	28	77	25	3.8%	10.7%	YES
			LKD	W14/F50	39.5	39.4	0.1	0.3%	YES												
			LKD	W15/F50	37.2	33.6	3.6	9.7%	YES												
			LKD	W16/F50	36.7	33.1	3.6	9.8%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
	R8	RESIDENTIAL	BEDROOM	W17/F50	36.2	32.6	3.6	9.9%	YES	98.8	98.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W18/F50	35.9	32.3	3.6	10.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R9	RESIDENTIAL	BEDROOM	W19/F50	35.3	31.9	3.4	9.6%	YES	94.3	94.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W20/F50	34.4	31.2	3.2	9.3%	YES	95.7	95.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W21/F50 / INC (2)	36	32.8	3.2	8.9%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W22/F50 / INC (2)	35.4	32.3	3.1	8.8%	YES	91.7	91.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W23/F50 / INC (2)	34.5	31.6	2.9	8.4%	YES	98.8	98.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F51	R1	RESIDENTIAL	LKD	W1/F51	18.9	18.9	0	0.0%	YES	100	100	0.0	0.0%	YES	70	23	70	23	0.0%	0.0%	YES
			LKD	W2/F51	21	21	0	0.0%	YES												
			LKD	W3/F51	22.3	22.3	0	0.0%	YES												
			LKD	W27/F51 / INC (2)	33.2	31.5	1.7	5.1%	YES												
			LKD	W28/F51 / INC (2)	31.4	29.9	1.5	4.8%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F51 / INC (2)	25.1	25.1	0	0.0%	YES	92.3	92.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W5/F51 / INC (2)	26	26	0	0.0%	YES	95.5	95.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W6/F51 / INC (2)	26.8	26.8	0	0.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F51	24.2	24.2	0	0.0%	YES	93.7	93.7	0.0	0.0%	YES	27	5	27	5	0.0%	0.0%	YES
			LKD	W8/F51	25.3	25.3	0	0.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W9/F51	27	27	0	0.0%	YES	93.5	93.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W10/F51	28.8	28.7	0.1	0.3%	YES	100	100	0.0	0.0%	YES	42	7	42	7	0.0%	0.0%	YES
			LKD	W11/F51	29.4	29.4	0	0.0%	YES												
			LKD	W12/F51	30.2	30.1	0.1	0.3%	YES												
			LKD	W13/F51	39.5	39.5	0	0.0%	YES												
			LKD	W14/F51	39.4	39.4	0	0.0%	YES												
	R7	RESIDENTIAL	LKD	W15/F51	39.4	39.4	0	0.0%	YES	100	100	0.0	0.0%	YES	80	28	80	28	0.0%	0.0%	YES
			LKD	W16/F51	39.4	39.4	0	0.0%	YES												
			LKD	W17/F51	39.5	39.5	0	0.0%	YES												
			LKD	W18/F51	37.2	35	2.2	5.9%	YES												
			LKD	W19/F51	36.8	34.5	2.3	6.2%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F51	36.1	33.9	2.2	6.1%	YES	99	99	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F51	35.5	33.3	2.2	6.2%	YES	96	96	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F51	34.7	32.6	2.1	6.1%	YES	97.8	97.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE EAST TOWER (CONTINUED)																					
	R11	RESIDENTIAL	BEDROOM	W23/F51 / INC (2)	36.1	34.1	2	5.5%	YES	98.7	98.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F51 / INC (2)	35.6	33.7	1.9	5.3%	YES	95.6	95.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W25/F51 / INC (2)	34.9	33	1.9	5.4%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F51 / INC (2)	34.5	32.6	1.9	5.5%	YES												
F52	R1	RESIDENTIAL	LKD	W1/F52	18.8	18.8	0	0.0%	YES	100	100	0.0	0.0%	YES	83	24	83	24	0.0%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W2/F52	20.6	20.6	0	0.0%	YES												
			LKD	W3/F52	22.2	22.2	0	0.0%	YES												
			LKD	W4/F52	25	25	0	0.0%	YES												
			LKD	W5/F52	26.5	26.5	0	0.0%	YES												
			LKD	W6/F52	27.2	27.2	0	0.0%	YES												
			LKD	W30/F52	35.6	34.7	0.9	2.5%	YES												
			LKD	W31/F52	35	34.1	0.9	2.6%	YES												
			LKD	W32/F52	34.5	33.7	0.8	2.3%	YES												
			LKD	W33/F52	33.3	32.5	0.8	2.4%	YES												
			LKD	W34/F52	31.4	30.7	0.7	2.2%	YES												
	R2	RESIDENTIAL	LKD	W7/F52	25.2	25.2	0	0.0%	YES	100	100	0.0	0.0%	YES	46	8	46	8	0.0%	0.0%	YES
			LKD	W8/F52	26.3	26.3	0	0.0%	YES												
			LKD	W9/F52	27.3	27.3	0	0.0%	YES												
			LKD	W10/F52	29.1	29.1	0	0.0%	YES												
			LKD	W11/F52	29.6	29.6	0	0.0%	YES												
			LKD	W12/F52	30.5	30.5	0	0.0%	YES												
			LKD	W13/F52	39.6	39.6	0	0.0%	YES												
			LKD	W14/F52	39.6	39.6	0	0.0%	YES												
			LKD	W15/F52	39.5	39.5	0	0.0%	YES												
			LKD	W16/F52	39.5	39.5	0	0.0%	YES												
			LKD	W17/F52	39.4	39.4	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W18/F52	38.7	38.7	0	0.0%	YES	100	100	0.0	0.0%	YES	81	28	81	28	0.0%	0.0%	YES
			LKD	W19/F52	39.1	39.1	0	0.0%	YES												
			LKD	W20/F52	39.3	39.3	0	0.0%	YES												
			LKD	W21/F52	39.5	39.5	0	0.0%	YES												
			LKD	W22/F52	39.5	39.5	0	0.0%	YES												
DEANSGATE EAST TOWER (CONTINUED)																					
			LKD	W23/F52	39.5	39.5	0	0.0%	YES												
			LKD	W24/F52	37.3	36.2	1.1	2.9%	YES												
			LKD	W25/F52	36.8	35.7	1.1	3.0%	YES												
			LKD	W26/F52	36.2	35.2	1	2.8%	YES												
			LKD	W27/F52	35.5	34.6	0.9	2.5%	YES												
	R4	RESIDENTIAL	BEDROOM	W28/F52	34.6	33.7	0.9	2.6%	YES	93.6	93.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W29/F52	36.2	35.2	1	2.8%	YES	94.9	94.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F53	R1	RESIDENTIAL	LKD	W1/F53	25.3	25.3	0	0.0%	YES	95	95	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W2/F53	26.8	26.8	0	0.0%	YES												
			LKD	W3/F53	27.5	27.5	0	0.0%	YES												
	R2	RESIDENTIAL	LKD	W4/F53	25.6	25.6	0	0.0%	YES	80.1	80.1	0.0	0.0%	YES	33	6	33	6	0.0%	0.0%	YES
			LKD	W5/F53	26.7	26.7	0	0.0%	YES												
			LKD	W6/F53	27.7	27.7	0	0.0%	YES												
	R3	RESIDENTIAL	LKD	W7/F53	36.2	36.2	0	0.0%	YES	90.2	90.2	0.0	0.0%	YES	72	28	72	28	0.0%	0.0%	YES
			LKD	W8/F53	35.7	35.7	0	0.0%	YES												
	R4	RESIDENTIAL	LKD	W9/F53	35.8	35.8	0	0.0%	YES	89.7	89.7	0.0	0.0%	YES	70	24	70	24	0.0%	0.0%	YES
			LKD	W10/F53	35.1	35.1	0	0.0%	YES												
			LKD	W11/F53	34.6	34.6	0	0.0%	YES												
DEANSGATE WEST TOWER																					
F00	R1	RESIDENTIAL	LKD	W1/F00	14.5	13.1	1.4	9.7%	YES	99.6	99.6	0.0	0.0%	YES	31	1	30	1	3.2%	0.0%	YES
			LKD	W2/F00	13.1	12.3	0.8	6.1%	YES												
			LKD	W26/F00	32.9	32.9	0	0.0%	YES												
			LKD	W27/F00	33	33	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F00	12.6	11.9	0.7	5.6%	YES	66.6	63.1	0.4	5.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F00	12.4	11.7	0.7	5.6%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F00	12	11.3	0.7	5.8%	YES	46.1	43.4	0.3	5.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F00	11.6	11	0.6	5.2%	YES	35.6	32.7	0.3	8.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F00 / INC (2)	12.7	12.2	0.5	3.9%	YES	34	31.7	0.3	6.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F00 / INC (2)	11.5	11	0.5	4.3%	YES	32	29.5	0.3	7.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F00 / INC (2)	10.4	10	0.4	3.8%	YES	46.5	45.3	0.1	2.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
	R8	RESIDENTIAL	LKD	W10/F00 / INC (2)	9.4	9.1	0.3	3.2%	YES	97.4	96.8	0.2	0.7%	YES	40	4	39	3	2.5%	25.0%	YES
			LKD	W11/F00 / INC (2)	8.5	8.2	0.3	3.5%	YES												
			LKD	W12/F00	22.1	22.1	0	0.0%	YES												
			LKD	W13/F00	22.7	22.6	0.1	0.4%	YES												
			LKD	W14/F00	22.9	22.8	0.1	0.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F00	23.4	23.3	0.1	0.4%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F00	23.8	23.7	0.1	0.4%	YES	94.7	94.6	0.0	0.1%	YES	33	4	33	4	0.0%	0.0%	YES
			LKD	W17/F00	24	24	0	0.0%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F00	21.9	21.6	0.3	1.4%	YES	94.2	94	0.0	0.2%	YES	35	5	35	5	0.0%	0.0%	YES
			LKD	W19/F00	22.3	22	0.3	1.3%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F00	23	22.8	0.2	0.9%	YES	97.5	96.7	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R13	RESIDENTIAL	LKD	W21/F00	23.9	23.7	0.2	0.8%	YES	99.5	99.5	0.0	0.0%	YES	40	8	39	7	2.5%	12.5%	YES
			LKD	W22/F00	24.4	24.2	0.2	0.8%	YES												
			LKD	W23/F00	24.7	24.5	0.2	0.8%	YES												
			LKD	W24/F00	23.6	23.6	0	0.0%	YES												
			LKD	W25/F00	23.6	23.6	0	0.0%	YES												
F01	R1	RESIDENTIAL	LKD	W1/F01	15.5	13.8	1.7	11.0%	YES	99.7	99.7	0.0	0.0%	YES	33	2	31	2	6.1%	0.0%	YES
			LKD	W2/F01	14.4	13.1	1.3	9.0%	YES												
			LKD	W26/F01	34	34	0	0.0%	YES												
			LKD	W27/F01	34.1	34.1	0	0.0%	YES												
			LKD	W28/F01	34.1	34.1	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F01	13.8	12.6	1.2	8.7%	YES	76	76	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F01	13.3	12.2	1.1	8.3%	YES	57.8	57	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F01	12.7	11.7	1	7.9%	YES	51.9	50.4	0.2	3.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F01 / INC (2)	14.2	13.3	0.9	6.3%	YES	50.5	50.1	0.0	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F01 / INC (2)	13.2	12.4	0.8	6.1%	YES	62.7	61.2	0.2	2.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F01 / INC (2)	12.4	11.7	0.7	5.6%	YES	82.3	77	0.5	6.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F01 / INC (2)	11.9	11.3	0.6	5.0%	YES												
	R8	RESIDENTIAL	LKD	W10/F01 / INC (2)	11.1	10.5	0.6	5.4%	YES	97.5	96.9	0.2	0.6%	YES	46	5	45	4	2.2%	20.0%	YES
			LKD	W11/F01 / INC (2)	10.1	9.6	0.5	5.0%	YES												
			LKD	W12/F01	22.5	22.5	0	0.0%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W13/F01	23.1	23.1	0	0.0%	YES												
			LKD	W14/F01	23.4	23.3	0.1	0.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F01	23.9	23.8	0.1	0.4%	YES	97.7	97.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F01	24.2	24.2	0	0.0%	YES	94.9	94.8	0.0	0.1%	YES	33	4	33	4	0.0%	0.0%	YES
			LKD	W17/F01	24.5	24.4	0.1	0.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F01	22.3	22	0.3	1.3%	YES	94.3	94.2	0.0	0.2%	YES	35	5	35	5	0.0%	0.0%	YES
			LKD	W19/F01	22.8	22.5	0.3	1.3%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F01	23.5	23.3	0.2	0.9%	YES	97.6	96.9	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F01	24.4	24.2	0.2	0.8%	YES	99.8	99.8	0.0	0.0%	YES	41	8	40	7	2.4%	12.5%	YES
			LKD	W22/F01	25	24.7	0.3	1.2%	YES												
			LKD	W23/F01	25.3	25.1	0.2	0.8%	YES												
			LKD	W24/F01	25	25	0	0.0%	YES												
			LKD	W25/F01	25	25	0	0.0%	YES												
F02	R1	RESIDENTIAL	LKD	W1/F02	16.5	14.5	2	12.1%	YES	100	100	0.0	0.0%	YES	38	5	35	4	7.9%	20.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W2/F02	15.7	13.9	1.8	11.5%	YES												
			LKD	W26/F02	35.1	35.1	0	0.0%	YES												
			LKD	W27/F02	35.1	35.1	0	0.0%	YES												
			LKD	W28/F02	35.2	35.2	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F02	15.1	13.4	1.7	11.3%	YES	76.2	76.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F02	14.5	13	1.5	10.3%	YES	58.2	57.7	0.0	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F02	13.9	12.5	1.4	10.1%	YES	55.2	53.8	0.2	2.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F02 / INC (2)	15.4	14.2	1.2	7.8%	YES	50.8	50.4	0.0	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F02 / INC (2)	14.8	13.7	1.1	7.4%	YES	63.7	62.3	0.1	2.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F02 / INC (2)	14.1	13.1	1	7.1%	YES	92.9	85.8	0.7	7.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F02 / INC (2)	13.7	12.8	0.9	6.6%	YES												
	R8	RESIDENTIAL	LKD	W10/F02 / INC (2)	13	12.1	0.9	6.9%	YES	98.7	98.6	0.1	0.1%	YES	48	6	46	5	4.2%	16.7%	YES
			LKD	W11/F02 / INC (2)	12.1	11.4	0.7	5.8%	YES												
			LKD	W12/F02	23	22.9	0.1	0.4%	YES												
			LKD	W13/F02	23.6	23.5	0.1	0.4%	YES												
			LKD	W14/F02	23.8	23.7	0.1	0.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F02	24.3	24.2	0.1	0.4%	YES	97.7	97.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
	R10	RESIDENTIAL	LKD	W16/F02	24.7	24.6	0.1	0.4%	YES	94.9	94.8	0.0	0.1%	YES	34	5	34	5	0.0%	0.0%	YES
			LKD	W17/F02	25	24.9	0.1	0.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F02	22.8	22.4	0.4	1.8%	YES	94.5	94.3	0.0	0.2%	YES	35	5	35	5	0.0%	0.0%	YES
			LKD	W19/F02	23.2	22.9	0.3	1.3%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F02	24	23.7	0.3	1.3%	YES	97.7	96.9	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F02	24.9	24.7	0.2	0.8%	YES	100	100	0.0	0.0%	YES	43	8	42	8	2.3%	0.0%	YES
			LKD	W22/F02	25.5	25.2	0.3	1.2%	YES												
			LKD	W23/F02	25.8	25.6	0.2	0.8%	YES												
			LKD	W24/F02	26.5	26.5	0	0.0%	YES												
			LKD	W25/F02	26.5	26.5	0	0.0%	YES												
F03	R1	RESIDENTIAL	LKD	W1/F03	17.4	15	2.4	13.8%	YES	100	100	0.0	0.0%	YES	38	5	36	4	5.3%	20.0%	YES
			LKD	W2/F03	16.8	14.6	2.2	13.1%	YES												
			LKD	W26/F03	36.1	36.1	0	0.0%	YES												
			LKD	W27/F03	36.1	36.1	0	0.0%	YES												
			LKD	W28/F03	36.1	36.1	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F03	16.3	14.2	2.1	12.9%	YES	76.3	76.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F03	15.6	13.7	1.9	12.2%	YES	58.3	57.8	0.0	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R4	RESIDENTIAL	BEDROOM	W5/F03	15	13.2	1.8	12.0%	YES	55.4	54.1	0.2	2.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F03 / INC (2)	16.5	14.9	1.6	9.7%	YES	50.9	50.5	0.0	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F03 / INC (2)	16	14.5	1.5	9.4%	YES	63.9	62.6	0.1	2.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F03 / INC (2)	15.3	13.9	1.4	9.2%	YES	93.2	86.1	0.7	7.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F03 / INC (2)	14.9	13.7	1.2	8.1%	YES												
	R8	RESIDENTIAL	LKD	W10/F03 / INC (2)	14.3	13.1	1.2	8.4%	YES	98.8	98.8	0.0	0.0%	YES	50	7	47	6	6.0%	14.3%	YES
			LKD	W11/F03 / INC (2)	13.4	12.4	1	7.5%	YES												
			LKD	W12/F03	23.4	23.3	0.1	0.4%	YES												
			LKD	W13/F03	24	23.9	0.1	0.4%	YES												
			LKD	W14/F03	24.2	24.1	0.1	0.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F03	24.7	24.6	0.1	0.4%	YES	97.7	97.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F03	25.1	25.1	0	0.0%	YES	95.1	94.9	0.0	0.1%	YES	34	5	34	5	0.0%	0.0%	YES
			LKD	W17/F03	25.5	25.4	0.1	0.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F03	23.1	22.8	0.3	1.3%	YES	94.7	94.5	0.0	0.2%	YES	35	5	35	5	0.0%	0.0%	YES
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W19/F03	23.6	23.3	0.3	1.3%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F03	24.4	24.2	0.2	0.8%	YES	98.1	97.1	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F03	25.4	25.2	0.2	0.8%	YES	100	100	0.0	0.0%	YES	44	8	43	8	2.3%	0.0%	YES
			LKD	W22/F03	26	25.7	0.3	1.2%	YES												
			LKD	W23/F03	26.3	26.1	0.2	0.8%	YES												
			LKD	W24/F03	28	28	0	0.0%	YES												
			LKD	W25/F03	28.1	28.1	0	0.0%	YES												
F04	R1	RESIDENTIAL	LKD	W1/F04	17.7	15.4	2.3	13.0%	YES	100	100	0.0	0.0%	YES	38	5	36	4	5.3%	20.0%	YES
			LKD	W2/F04	17.1	14.9	2.2	12.9%	YES												
			LKD	W26/F04	36.9	36.9	0	0.0%	YES												
			LKD	W27/F04	36.9	36.9	0	0.0%	YES												
			LKD	W28/F04	36.9	36.9	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F04	16.6	14.5	2.1	12.7%	YES	76.4	76.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F04	16	14	2	12.5%	YES	58.3	57.8	0.0	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F04	15.4	13.5	1.9	12.3%	YES	55.7	54.2	0.2	2.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F04 / INC (2)	16.8	15.2	1.6	9.5%	YES	50.9	50.7	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F04 / INC (2)	16.3	14.8	1.5	9.2%	YES	64.1	62.9	0.1	1.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F04 / INC (2)	15.7	14.2	1.5	9.6%	YES	93.3	86.4	0.7	7.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F04 / INC (2)	15.3	14	1.3	8.5%	YES												
	R8	RESIDENTIAL	LKD	W10/F04 / INC (2)	14.6	13.4	1.2	8.2%	YES	98.8	98.8	0.0	0.0%	YES	51	7	49	7	3.9%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W11/F04 / INC (2)	13.7	12.7	1	7.3%	YES												
			LKD	W12/F04	23.7	23.7	0	0.0%	YES												
			LKD	W13/F04	24.4	24.3	0.1	0.4%	YES												
			LKD	W14/F04	24.6	24.5	0.1	0.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F04	25.1	25	0.1	0.4%	YES	97.8	97.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F04	25.5	25.5	0	0.0%	YES	95.2	95	0.0	0.1%	YES	34	5	34	5	0.0%	0.0%	YES
			LKD	W17/F04	25.9	25.7	0.2	0.8%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F04	23.5	23.1	0.4	1.7%	YES	94.9	94.7	0.1	0.2%	YES	35	5	35	5	0.0%	0.0%	YES
			LKD	W19/F04	24	23.6	0.4	1.7%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F04	24.8	24.5	0.3	1.2%	YES	98.2	97.1	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F04	25.8	25.6	0.2	0.8%	YES	100	100	0.0	0.0%	YES	46	10	44	9	4.3%	10.0%	YES
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W22/F04	26.3	26.1	0.2	0.8%	YES												
			LKD	W23/F04	26.7	26.5	0.2	0.7%	YES												
			LKD	W24/F04	29.4	29.4	0	0.0%	YES												
			LKD	W25/F04	29.5	29.5	0	0.0%	YES												
F05	R1	RESIDENTIAL	LKD	W1/F05	18.1	15.7	2.4	13.3%	YES	100	100	0.0	0.0%	YES	39	5	37	4	5.1%	20.0%	YES
			LKD	W2/F05	17.5	15.2	2.3	13.1%	YES												
			LKD	W26/F05	37.5	37.5	0	0.0%	YES												
			LKD	W27/F05	37.5	37.5	0	0.0%	YES												
			LKD	W28/F05	37.5	37.5	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F05	16.9	14.8	2.1	12.4%	YES	76.4	76.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F05	16.3	14.3	2	12.3%	YES	58.3	57.8	0.0	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F05	15.7	13.7	2	12.7%	YES	55.7	54.5	0.1	2.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F05 / INC (2)	17.2	15.5	1.7	9.9%	YES	50.9	50.7	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F05 / INC (2)	16.7	15.1	1.6	9.6%	YES	64.3	63	0.1	2.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F05 / INC (2)	16	14.5	1.5	9.4%	YES	93.5	86.6	0.7	7.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F05 / INC (2)	15.6	14.2	1.4	9.0%	YES												
	R8	RESIDENTIAL	LKD	W10/F05 / INC (2)	14.9	13.6	1.3	8.7%	YES	98.8	98.8	0.0	0.0%	YES	52	7	50	7	3.8%	0.0%	YES
			LKD	W11/F05 / INC (2)	14	12.9	1.1	7.9%	YES												
			LKD	W12/F05	24.1	24	0.1	0.4%	YES												
			LKD	W13/F05	24.7	24.6	0.1	0.4%	YES												
			LKD	W14/F05	24.9	24.8	0.1	0.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F05	25.5	25.4	0.1	0.4%	YES	97.8	97.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F05	25.9	25.8	0.1	0.4%	YES	95.2	95.1	0.0	0.2%	YES	35	5	35	5	0.0%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W17/F05	26.2	26.1	0.1	0.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F05	23.8	23.4	0.4	1.7%	YES	95	94.7	0.1	0.3%	YES	36	5	35	5	2.8%	0.0%	YES
			LKD	W19/F05	24.3	23.9	0.4	1.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F05	25.1	24.8	0.3	1.2%	YES	98.4	97.2	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F05	26.1	25.9	0.2	0.8%	YES	100	100	0.0	0.0%	YES	47	10	45	9	4.3%	10.0%	YES
			LKD	W22/F05	26.7	26.4	0.3	1.1%	YES												
			LKD	W23/F05	27.1	26.8	0.3	1.1%	YES												
			LKD	W24/F05	30.9	30.9	0	0.0%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W25/F05	31	31	0	0.0%	YES												
F06	R1	RESIDENTIAL	LKD	W1/F06	18.4	16	2.4	13.0%	YES	100	100	0.0	0.0%	YES	39	5	37	4	5.1%	20.0%	YES
			LKD	W2/F06	17.8	15.5	2.3	12.9%	YES												
			LKD	W24/F06	37.7	37.7	0	0.0%	YES												
			LKD	W25/F06	37.7	37.7	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F06	17.4	15.2	2.2	12.6%	YES	88	81	0.7	7.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F06	17.1	15	2.1	12.3%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F06	16.5	14.5	2	12.1%	YES	64.6	59	0.5	8.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F06	15.9	14	1.9	11.9%	YES	63.7	56.7	0.8	11.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F06 / INC (2)	17.3	15.6	1.7	9.8%	YES	56.5	51.3	0.6	9.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F06 / INC (2)	16.7	15.2	1.5	9.0%	YES	57.1	48.8	0.9	14.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F06 / INC (2)	16	14.6	1.4	8.8%	YES	84	81.2	0.3	3.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F06 / INC (2)	15.2	13.8	1.4	9.2%	YES	98.8	98.8	0.0	0.0%	YES	52	7	50	7	3.8%	0.0%	YES
			LKD	W11/F06 / INC (2)	14.3	13.1	1.2	8.4%	YES												
			LKD	W12/F06	24.3	24.2	0.1	0.4%	YES												
			LKD	W13/F06	25	24.9	0.1	0.4%	YES												
			LKD	W14/F06	25.2	25.1	0.1	0.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F06	25.8	25.6	0.2	0.8%	YES	90.9	90.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F06	26.4	26.3	0.1	0.4%	YES	94.8	94.5	0.1	0.3%	YES	35	4	34	4	2.9%	0.0%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F06	24.2	23.8	0.4	1.7%	YES	90.4	89.4	0.2	1.1%	YES	36	5	35	5	2.8%	0.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F06	25.4	25.1	0.3	1.2%	YES	98.5	97.2	0.2	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F06	26.5	26.2	0.3	1.1%	YES	100	100	0.0	0.0%	YES	51	11	47	8	7.8%	27.3%	YES
			LKD	W20/F06	27.1	26.8	0.3	1.1%	YES												
			LKD	W21/F06	27.4	27.2	0.2	0.7%	YES												
			LKD	W22/F06	32.1	32.1	0	0.0%	YES												
			LKD	W23/F06	32.1	32.1	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F07	R1	RESIDENTIAL	LKD	W1/F07	18.8	16.4	2.4	12.8%	YES	100	100	0.0	0.0%	YES	40	6	38	5	5.0%	16.7%	YES
			LKD	W2/F07	18.2	15.9	2.3	12.6%	YES												
			LKD	W26/F07	37.9	37.9	0	0.0%	YES												
			LKD	W27/F07	37.9	37.9	0	0.0%	YES												
			LKD	W28/F07	37.9	37.9	0	0.0%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
	R2	RESIDENTIAL	BEDROOM	W3/F07	17.6	15.4	2.2	12.5%	YES	76.4	76.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F07	17	14.9	2.1	12.4%	YES	58.5	58.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F07	16.4	14.4	2	12.2%	YES	55.8	54.9	0.1	1.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F07 / INC (2)	17.8	16.1	1.7	9.6%	YES	50.9	50.8	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F07 / INC (2)	17.3	15.7	1.6	9.2%	YES	64.3	63.2	0.1	1.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F07 / INC (2)	16.6	15	1.6	9.6%	YES	94.2	87.3	0.7	7.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F07 / INC (2)	16.2	14.7	1.5	9.3%	YES												
	R8	RESIDENTIAL	LKD	W10/F07 / INC (2)	15.5	14.1	1.4	9.0%	YES	98.8	98.8	0.0	0.0%	YES	52	7	50	7	3.8%	0.0%	YES
			LKD	W11/F07 / INC (2)	14.5	13.3	1.2	8.3%	YES												
			LKD	W12/F07	24.6	24.5	0.1	0.4%	YES												
			LKD	W13/F07	25.3	25.2	0.1	0.4%	YES												
			LKD	W14/F07	25.6	25.4	0.2	0.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F07 / INC (2)	26.3	26.2	0.1	0.4%	YES	97.9	97.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F07 / INC (2)	26.6	26.4	0.2	0.8%	YES	95.2	95	0.1	0.3%	YES	36	5	35	5	2.8%	0.0%	YES
			LKD	W17/F07 / INC (2)	27	26.8	0.2	0.7%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F07	24.4	23.9	0.5	2.0%	YES	95.4	94.7	0.2	0.8%	YES	37	5	36	5	2.7%	0.0%	YES
			LKD	W19/F07	24.9	24.5	0.4	1.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F07	25.7	25.4	0.3	1.2%	YES	98.6	97.2	0.2	1.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F07	26.8	26.5	0.3	1.1%	YES	100	100	0.0	0.0%	YES	50	10	47	8	6.0%	20.0%	YES
			LKD	W22/F07	27.4	27.1	0.3	1.1%	YES												
			LKD	W23/F07	27.8	27.5	0.3	1.1%	YES												
			LKD	W24/F07	33.1	33.1	0	0.0%	YES												
			LKD	W25/F07	33.1	33.1	0	0.0%	YES												
F08	R1	RESIDENTIAL	LKD	W1/F08	19.1	16.7	2.4	12.6%	YES	100	100	0.0	0.0%	YES	42	7	39	5	7.1%	28.6%	YES
			LKD	W2/F08	18.5	16.2	2.3	12.4%	YES												
			LKD	W24/F08	38	38	0	0.0%	YES												
			LKD	W25/F08	38	38	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F08	18.1	15.8	2.3	12.7%	YES	88	82	0.6	6.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F08	17.8	15.6	2.2	12.4%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	BEDROOM	W5/F08	17.3	15.2	2.1	12.1%	YES	65	59.7	0.5	8.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F08	16.7	14.6	2.1	12.6%	YES	64.8	58.1	0.8	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
	R5	RESIDENTIAL	BEDROOM	W7/F08 / INC (2)	18	16.2	1.8	10.0%	YES	57.1	52.3	0.5	8.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F08 / INC (2)	17.4	15.8	1.6	9.2%	YES	58.5	50.6	0.8	13.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F08 / INC (2)	16.7	15.1	1.6	9.6%	YES	84.8	82.1	0.3	3.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F08 / INC (2)	15.8	14.3	1.5	9.5%	YES	98.8	98.8	0.0	0.0%	YES	54	8	51	7	5.6%	12.5%	YES
			LKD	W11/F08 / INC (2)	14.8	13.5	1.3	8.8%	YES												
			LKD	W12/F08	24.9	24.8	0.1	0.4%	YES												
			LKD	W13/F08	25.6	25.5	0.1	0.4%	YES												
			LKD	W14/F08	25.9	25.7	0.2	0.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F08	26.4	26.3	0.1	0.4%	YES	91.4	91.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F08	27	26.9	0.1	0.4%	YES	95	94.7	0.1	0.3%	YES	36	5	34	4	5.6%	20.0%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F08	24.8	24.3	0.5	2.0%	YES	91	89.5	0.4	1.7%	YES	39	7	36	5	7.7%	28.6%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F08	26	25.7	0.3	1.2%	YES	98.7	97.3	0.2	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F08	27.1	26.9	0.2	0.7%	YES	100	100	0.0	0.0%	YES	50	10	47	8	6.0%	20.0%	YES
			LKD	W20/F08	27.7	27.4	0.3	1.1%	YES												
			LKD	W21/F08	28.2	27.9	0.3	1.1%	YES												
			LKD	W22/F08	34.1	34.1	0	0.0%	YES												
			LKD	W23/F08	34.1	34.1	0	0.0%	YES												
F09	R1	RESIDENTIAL	LKD	W1/F09	19.5	17.1	2.4	12.3%	YES	100	100	0.0	0.0%	YES	43	8	40	6	7.0%	25.0%	YES
			LKD	W2/F09	18.9	16.6	2.3	12.2%	YES												
			LKD	W26/F09	38.1	38.1	0	0.0%	YES												
			LKD	W27/F09	38.1	38.1	0	0.0%	YES												
			LKD	W28/F09	38.1	38.1	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F09	18.4	16.1	2.3	12.5%	YES	76.5	76.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F09	17.8	15.6	2.2	12.4%	YES	58.7	58.6	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F09	17.1	15	2.1	12.3%	YES	55.9	55.4	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F09 / INC (2)	18.5	16.7	1.8	9.7%	YES	51	50.8	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F09 / INC (2)	18	16.3	1.7	9.4%	YES	64.3	63.4	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F09 / INC (2)	17.3	15.6	1.7	9.8%	YES	94.2	88.8	0.6	5.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F09 / INC (2)	16.9	15.3	1.6	9.5%	YES												
	R8	RESIDENTIAL	LKD	W10/F09 / INC (2)	16.2	14.6	1.6	9.9%	YES	98.8	98.8	0.0	0.0%	YES	54	8	51	7	5.6%	12.5%	YES
			LKD	W11/F09 / INC (2)	15.2	13.8	1.4	9.2%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W12/F09	25.2	25	0.2	0.8%	YES												
			LKD	W13/F09	25.9	25.7	0.2	0.8%	YES												
			LKD	W14/F09	26.2	26	0.2	0.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F09 / INC (2)	27	26.8	0.2	0.7%	YES	97.9	97.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F09 / INC (2)	27.2	27.1	0.1	0.4%	YES	95.6	95.3	0.1	0.2%	YES	37	6	34	4	8.1%	33.3%	YES
			LKD	W17/F09 / INC (2)	27.6	27.5	0.1	0.4%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F09	25	24.5	0.5	2.0%	YES	95.9	94.7	0.3	1.3%	YES	40	7	37	5	7.5%	28.6%	YES
			LKD	W19/F09	25.5	25	0.5	2.0%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F09	26.3	26	0.3	1.1%	YES	98.8	97.4	0.2	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F09	27.5	27.2	0.3	1.1%	YES	100	100	0.0	0.0%	YES	52	11	48	8	7.7%	27.3%	YES
			LKD	W22/F09	28.1	27.8	0.3	1.1%	YES												
			LKD	W23/F09	28.5	28.3	0.2	0.7%	YES												
			LKD	W24/F09	35	35	0	0.0%	YES												
			LKD	W25/F09	34.9	34.9	0	0.0%	YES												
F10	R1	RESIDENTIAL	LKD	W1/F10	19.9	17.5	2.4	12.1%	YES	100	100	0.0	0.0%	YES	46	8	43	6	6.5%	25.0%	YES
			LKD	W2/F10	19.3	17	2.3	11.9%	YES												
			LKD	W24/F10	38.2	38.2	0	0.0%	YES												
			LKD	W25/F10	38.2	38.2	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F10	18.9	16.6	2.3	12.2%	YES	89.4	83.2	0.6	6.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F10	18.6	16.4	2.2	11.8%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F10	18.1	15.9	2.2	12.2%	YES	66.1	61.1	0.5	7.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F10	17.5	15.3	2.2	12.6%	YES	66.1	59.5	0.7	10.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F10 / INC (2)	18.7	16.9	1.8	9.6%	YES	57.6	53.4	0.5	7.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F10 / INC (2)	18.2	16.4	1.8	9.9%	YES	59.4	52.3	0.7	12.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F10 / INC (2)	17.4	15.7	1.7	9.8%	YES	85.3	83.1	0.2	2.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F10 / INC (2)	16.5	14.9	1.6	9.7%	YES	98.8	98.8	0.0	0.0%	YES	54	8	52	7	3.7%	12.5%	YES
			LKD	W11/F10 / INC (2)	15.5	14	1.5	9.7%	YES												
			LKD	W12/F10	25.5	25.3	0.2	0.8%	YES												
			LKD	W13/F10	26.2	26	0.2	0.8%	YES												
			LKD	W14/F10	26.5	26.3	0.2	0.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F10	27.1	26.9	0.2	0.7%	YES	91.7	91.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
	R10	RESIDENTIAL	LKD	W16/F10	27.7	27.6	0.1	0.4%	YES	95.1	94.8	0.1	0.3%	YES	38	6	35	4	7.9%	33.3%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F10	25.4	24.9	0.5	2.0%	YES	91.4	89.4	0.5	2.1%	YES	40	7	37	5	7.5%	28.6%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F10	26.7	26.3	0.4	1.5%	YES	98.8	97.6	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R13	RESIDENTIAL	LKD	W19/F10	27.8	27.5	0.3	1.1%	YES	100	100	0.0	0.0%	YES	53	12	49	9	7.5%	25.0%	YES
			LKD	W20/F10	28.5	28.1	0.4	1.4%	YES												
			LKD	W21/F10	28.9	28.6	0.3	1.0%	YES												
			LKD	W22/F10	35.9	35.9	0	0.0%	YES												
			LKD	W23/F10	35.8	35.8	0	0.0%	YES												
F11	R1	RESIDENTIAL	LKD	W1/F11	20.3	17.9	2.4	11.8%	YES	100	100	0.0	0.0%	YES	46	8	43	6	6.5%	25.0%	YES
			LKD	W2/F11	19.7	17.4	2.3	11.7%	YES												
			LKD	W26/F11	38.3	38.3	0	0.0%	YES												
			LKD	W27/F11	38.3	38.3	0	0.0%	YES												
			LKD	W28/F11	38.3	38.3	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F11	19.2	16.9	2.3	12.0%	YES	76.6	76.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F11	18.6	16.4	2.2	11.8%	YES	58.8	58.7	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F11	17.9	15.8	2.1	11.7%	YES	56.2	55.7	0.0	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F11 / INC (2)	19.3	17.4	1.9	9.8%	YES	51.1	51	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F11 / INC (2)	18.8	16.9	1.9	10.1%	YES	64.5	63.6	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F11 / INC (2)	18.1	16.2	1.9	10.5%	YES	94.5	89.3	0.5	5.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F11 / INC (2)	17.7	15.9	1.8	10.2%	YES												
	R8	RESIDENTIAL	LKD	W10/F11 / INC (2)	16.9	15.2	1.7	10.1%	YES	98.8	98.8	0.0	0.0%	YES	55	8	52	6	5.5%	25.0%	YES
			LKD	W11/F11 / INC (2)	15.8	14.3	1.5	9.5%	YES												
			LKD	W12/F11	25.7	25.5	0.2	0.8%	YES												
			LKD	W13/F11	26.5	26.3	0.2	0.8%	YES												
			LKD	W14/F11	26.8	26.6	0.2	0.7%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F11 / INC (2)	27.6	27.4	0.2	0.7%	YES	97.9	97.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F11 / INC (2)	27.9	27.7	0.2	0.7%	YES	95.7	95.5	0.1	0.2%	YES	39	6	36	4	7.7%	33.3%	YES
			LKD	W17/F11 / INC (2)	28.3	28.1	0.2	0.7%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F11	25.6	25	0.6	2.3%	YES	96.2	94.8	0.4	1.5%	YES	41	7	38	5	7.3%	28.6%	YES
			LKD	W19/F11	26.1	25.6	0.5	1.9%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F11	27	26.6	0.4	1.5%	YES	98.8	97.8	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
	R13	RESIDENTIAL	LKD	W21/F11	28.1	27.8	0.3	1.1%	YES	100	100	0.0	0.0%	YES	53	12	49	9	7.5%	25.0%	YES
			LKD	W22/F11	28.8	28.4	0.4	1.4%	YES												
			LKD	W23/F11	29.2	28.9	0.3	1.0%	YES												
			LKD	W24/F11	36.6	36.6	0	0.0%	YES												
			LKD	W25/F11	36.6	36.6	0	0.0%	YES												
F12	R1	RESIDENTIAL	LKD	W1/F12	20.7	18.3	2.4	11.6%	YES	100	100	0.0	0.0%	YES	47	9	43	6	8.5%	33.3%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W2/F12	20.2	17.8	2.4	11.9%	YES												
			LKD	W24/F12	38.3	38.3	0	0.0%	YES												
			LKD	W25/F12	38.3	38.3	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F12	19.7	17.4	2.3	11.7%	YES	89.6	84.6	0.5	5.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F12	19.5	17.1	2.4	12.3%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F12	18.9	16.7	2.2	11.6%	YES	66.6	62.3	0.4	6.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F12	18.3	16.1	2.2	12.0%	YES	68.8	62	0.8	9.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F12 / INC (2)	19.5	17.6	1.9	9.7%	YES	58.1	54.6	0.4	6.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F12 / INC (2)	19	17.1	1.9	10.0%	YES	60.1	53.9	0.6	10.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F12 / INC (2)	18.2	16.4	1.8	9.9%	YES	85.6	84.3	0.1	1.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F12 / INC (2)	17.3	15.5	1.8	10.4%	YES	98.9	98.8	0.0	0.0%	YES	55	8	52	6	5.5%	25.0%	YES
			LKD	W11/F12 / INC (2)	16.2	14.6	1.6	9.9%	YES												
			LKD	W12/F12	26	25.7	0.3	1.2%	YES												
			LKD	W13/F12	26.7	26.5	0.2	0.7%	YES												
			LKD	W14/F12	27	26.8	0.2	0.7%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F12	27.7	27.5	0.2	0.7%	YES	92.2	92.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F12	28.3	28.1	0.2	0.7%	YES	95.2	95	0.1	0.2%	YES	39	6	36	4	7.7%	33.3%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F12	26	25.4	0.6	2.3%	YES	91.7	89.7	0.5	2.2%	YES	40	7	37	5	7.5%	28.6%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F12	27.3	26.8	0.5	1.8%	YES	99	97.9	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F12	28.5	28.1	0.4	1.4%	YES	100	100	0.0	0.0%	YES	53	12	49	9	7.5%	25.0%	YES
			LKD	W20/F12	29.1	28.8	0.3	1.0%	YES												
			LKD	W21/F12	29.6	29.3	0.3	1.0%	YES												
			LKD	W22/F12	37.4	37.4	0	0.0%	YES												
			LKD	W23/F12	37.3	37.3	0	0.0%	YES												
F13	R1	RESIDENTIAL	LKD	W1/F13	21.2	18.7	2.5	11.8%	YES	100	100	0.0	0.0%	YES	47	9	43	6	8.5%	33.3%	YES
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W2/F13	20.6	18.2	2.4	11.7%	YES												
			LKD	W26/F13	38.4	38.4	0	0.0%	YES												
			LKD	W27/F13	38.4	38.4	0	0.0%	YES												
			LKD	W28/F13	38.4	38.4	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F13	20.1	17.7	2.4	11.9%	YES	76.9	76.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F13	19.5	17.2	2.3	11.8%	YES	59.2	59.1	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F13	18.8	16.6	2.2	11.7%	YES	56.5	56	0.0	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F13 / INC (2)	20.1	18.1	2	10.0%	YES	51.3	51.2	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F13 / INC (2)	19.6	17.7	1.9	9.7%	YES	64.6	63.7	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R7	RESIDENTIAL	BEDROOM	W8/F13 / INC (2)	18.9	16.9	2	10.6%	YES	95.4	89.7	0.6	6.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F13 / INC (2)	18.5	16.6	1.9	10.3%	YES												
	R8	RESIDENTIAL	LKD	W10/F13 / INC (2)	17.7	15.8	1.9	10.7%	YES	98.9	98.8	0.0	0.0%	YES	56	9	53	7	5.4%	22.2%	YES
			LKD	W11/F13 / INC (2)	16.6	14.9	1.7	10.2%	YES												
			LKD	W12/F13	26.2	26	0.2	0.8%	YES												
			LKD	W13/F13	27	26.8	0.2	0.7%	YES												
			LKD	W14/F13	27.3	27.1	0.2	0.7%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F13 / INC (2)	28.2	28	0.2	0.7%	YES	97.9	97.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F13 / INC (2)	28.5	28.3	0.2	0.7%	YES	95.8	95.6	0.0	0.2%	YES	40	7	36	4	10.0%	42.9%	YES
			LKD	W17/F13 / INC (2)	28.9	28.7	0.2	0.7%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F13	26.2	25.6	0.6	2.3%	YES	96.3	95.1	0.3	1.3%	YES	42	8	38	5	9.5%	37.5%	YES
			LKD	W19/F13	26.7	26.2	0.5	1.9%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F13	27.6	27.2	0.4	1.4%	YES	99	98.1	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F13	28.8	28.5	0.3	1.0%	YES	100	100	0.0	0.0%	YES	53	12	49	9	7.5%	25.0%	YES
			LKD	W22/F13	29.5	29.1	0.4	1.4%	YES												
			LKD	W23/F13	29.9	29.6	0.3	1.0%	YES												
			LKD	W24/F13	38	38	0	0.0%	YES												
			LKD	W25/F13	38	38	0	0.0%	YES												
F14	R1	RESIDENTIAL	LKD	W1/F14	21.6	19.1	2.5	11.6%	YES	100	100	0.0	0.0%	YES	49	9	45	6	8.2%	33.3%	YES
			LKD	W2/F14	21.1	18.6	2.5	11.8%	YES												
			LKD	W24/F14	38.5	38.5	0	0.0%	YES												
			LKD	W25/F14	38.5	38.5	0	0.0%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
	R2	RESIDENTIAL	BEDROOM	W3/F14	20.6	18.2	2.4	11.7%	YES	89.6	85.8	0.4	4.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F14	20.4	18	2.4	11.8%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F14	19.9	17.5	2.4	12.1%	YES	67.4	63.7	0.4	5.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F14	19.3	17	2.3	11.9%	YES	69.8	63.9	0.7	8.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F14 / INC (2)	20.4	18.3	2.1	10.3%	YES	58.5	55.4	0.3	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F14 / INC (2)	19.9	17.8	2.1	10.6%	YES	61.2	55.6	0.6	9.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F14 / INC (2)	19.1	17.1	2	10.5%	YES	86	85.6	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F14 / INC (2)	18.1	16.2	1.9	10.5%	YES	98.9	98.9	0.0	0.0%	YES	56	9	54	8	3.6%	11.1%	YES
			LKD	W11/F14 / INC (2)	17	15.2	1.8	10.6%	YES												
			LKD	W12/F14	26.5	26.2	0.3	1.1%	YES												
			LKD	W13/F14	27.2	27	0.2	0.7%	YES												
			LKD	W14/F14	27.6	27.3	0.3	1.1%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R9	RESIDENTIAL	BEDROOM	W15/F14	28.2	28	0.2	0.7%	YES	93	93	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F14	28.9	28.7	0.2	0.7%	YES	95.2	95	0.0	0.2%	YES	41	7	37	4	9.8%	42.9%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F14	26.6	26	0.6	2.3%	YES	91.8	89.9	0.5	2.0%	YES	42	8	38	5	9.5%	37.5%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F14	27.9	27.5	0.4	1.4%	YES	99	98.4	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F14	29.1	28.8	0.3	1.0%	YES	100	100	0.0	0.0%	YES	55	13	50	9	9.1%	30.8%	YES
			LKD	W20/F14	29.8	29.4	0.4	1.3%	YES												
			LKD	W21/F14	30.2	29.9	0.3	1.0%	YES												
			LKD	W22/F14	38.3	38.4	-0.1	-0.3%	YES												
			LKD	W23/F14	38.3	38.3	0	0.0%	YES												
F15	R1	RESIDENTIAL	LKD	W1/F15	22.1	19.6	2.5	11.3%	YES	100	100	0.0	0.0%	YES	52	10	47	6	9.6%	40.0%	YES
			LKD	W2/F15	21.5	19.1	2.4	11.2%	YES												
			LKD	W26/F15	38.5	38.5	0	0.0%	YES												
			LKD	W27/F15	38.5	38.5	0	0.0%	YES												
			LKD	W28/F15	38.5	38.5	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F15	21.1	18.6	2.5	11.8%	YES	77.1	77.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F15	20.5	18.1	2.4	11.7%	YES	59.7	59.6	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F15	19.8	17.5	2.3	11.6%	YES	56.8	56.4	0.0	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F15 / INC (2)	21.1	18.9	2.2	10.4%	YES	51.5	51.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F15 / INC (2)	20.6	18.4	2.2	10.7%	YES	65	64.2	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
	R7	RESIDENTIAL	BEDROOM	W8/F15 / INC (2)	19.8	17.7	2.1	10.6%	YES	95.4	90	0.6	5.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F15 / INC (2)	19.4	17.4	2	10.3%	YES												
	R8	RESIDENTIAL	LKD	W10/F15 / INC (2)	18.6	16.5	2.1	11.3%	YES	98.9	98.9	0.0	0.0%	YES	57	9	55	8	3.5%	11.1%	YES
			LKD	W11/F15 / INC (2)	17.5	15.5	2	11.4%	YES												
			LKD	W12/F15	26.7	26.4	0.3	1.1%	YES												
			LKD	W13/F15	27.5	27.2	0.3	1.1%	YES												
			LKD	W14/F15	27.8	27.6	0.2	0.7%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F15 / INC (2)	28.7	28.5	0.2	0.7%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F15 / INC (2)	29	28.8	0.2	0.7%	YES	96	95.8	0.0	0.1%	YES	41	7	37	4	9.8%	42.9%	YES
			LKD	W17/F15 / INC (2)	29.4	29.2	0.2	0.7%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F15	26.8	26.2	0.6	2.2%	YES	96.1	94.8	0.3	1.4%	YES	45	8	41	5	8.9%	37.5%	YES
			LKD	W19/F15	27.4	26.8	0.6	2.2%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F15	28.2	27.8	0.4	1.4%	YES	99.1	98.7	0.1	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F15	29.5	29.1	0.4	1.4%	YES	100	100	0.0	0.0%	YES	57	14	53	10	7.0%	28.6%	YES
			LKD	W22/F15	30.1	29.7	0.4	1.3%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	CRITERIA
			LKD	W23/F15	30.6	30.2	0.4	1.3%	YES												
			LKD	W24/F15	38.6	38.6	0	0.0%	YES												
			LKD	W25/F15	38.5	38.5	0	0.0%	YES												
F16	R1	RESIDENTIAL	LKD	W1/F16	22.6	20.1	2.5	11.1%	YES	100	100	0.0	0.0%	YES	53	10	48	6	9.4%	40.0%	YES
			LKD	W2/F16	22.1	19.6	2.5	11.3%	YES												
			LKD	W24/F16	38.6	38.6	0	0.0%	YES												
			LKD	W25/F16	38.6	38.6	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F16	21.6	19.2	2.4	11.1%	YES	89.7	86.3	0.4	3.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F16	21.4	18.9	2.5	11.7%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F16	20.9	18.5	2.4	11.5%	YES	69	65.4	0.3	5.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F16	20.3	17.9	2.4	11.8%	YES	70.8	65.4	0.6	7.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F16 / INC (2)	21.4	19.2	2.2	10.3%	YES	59.5	56.5	0.3	5.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F16 / INC (2)	20.8	18.7	2.1	10.1%	YES	62	56.8	0.5	8.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F16 / INC (2)	20.1	17.9	2.2	10.9%	YES	86.3	86.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F16 / INC (2)	19.1	16.9	2.2	11.5%	YES	98.9	98.9	0.0	0.0%	YES	58	10	56	9	3.4%	10.0%	YES
			LKD	W11/F16 / INC (2)	18	15.9	2.1	11.7%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W12/F16	27	26.7	0.3	1.1%	YES												
			LKD	W13/F16	27.8	27.5	0.3	1.1%	YES												
			LKD	W14/F16	28.1	27.8	0.3	1.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F16	28.7	28.5	0.2	0.7%	YES	93.8	93.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F16	29.4	29.2	0.2	0.7%	YES	95.8	95.6	0.0	0.2%	YES	42	7	38	4	9.5%	42.9%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F16	27.3	26.7	0.6	2.2%	YES	91.8	90.1	0.4	1.8%	YES	45	8	41	5	8.9%	37.5%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F16	28.6	28.1	0.5	1.7%	YES	99.2	99	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F16	29.8	29.4	0.4	1.3%	YES	100	100	0.0	0.0%	YES	57	14	52	9	8.8%	35.7%	YES
			LKD	W20/F16	30.4	30	0.4	1.3%	YES												
			LKD	W21/F16	30.9	30.5	0.4	1.3%	YES												
			LKD	W22/F16	38.8	38.8	0	0.0%	YES												
			LKD	W23/F16	38.8	38.8	0	0.0%	YES												
F17	R1	RESIDENTIAL	LKD	W1/F17	23.1	20.6	2.5	10.8%	YES	100	100	0.0	0.0%	YES	53	10	49	6	7.5%	40.0%	YES
			LKD	W2/F17	22.6	20.1	2.5	11.1%	YES												
			LKD	W26/F17	38.6	38.6	0	0.0%	YES												
			LKD	W27/F17	38.6	38.6	0	0.0%	YES												
			LKD	W28/F17	38.6	38.6	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F17	22.1	19.6	2.5	11.3%	YES	77.2	77.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	BEDROOM	W4/F17	21.6	19.1	2.5	11.6%	YES	60	59.9	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F17	21	18.5	2.5	11.9%	YES	57.5	57.1	0.0	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F17 / INC (2)	22.1	19.8	2.3	10.4%	YES	51.9	51.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F17 / INC (2)	21.6	19.3	2.3	10.6%	YES	65.6	65.1	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F17 / INC (2)	20.9	18.6	2.3	11.0%	YES	95.4	90.1	0.6	5.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F17 / INC (2)	20.5	18.2	2.3	11.2%	YES												
	R8	RESIDENTIAL	LKD	W10/F17 / INC (2)	19.6	17.4	2.2	11.2%	YES	98.9	98.9	0.0	0.0%	YES	62	10	60	9	3.2%	10.0%	YES
			LKD	W11/F17 / INC (2)	18.5	16.3	2.2	11.9%	YES												
			LKD	W12/F17	27.2	26.9	0.3	1.1%	YES												
			LKD	W13/F17	28.1	27.8	0.3	1.1%	YES												
			LKD	W14/F17	28.4	28.1	0.3	1.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F17 / INC (2)	29.3	29	0.3	1.0%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F17 / INC (2)	29.5	29.3	0.2	0.7%	YES	96	95.9	0.0	0.1%	YES	45	7	42	4	6.7%	42.9%	YES
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W17/F17 / INC (2)	29.9	29.7	0.2	0.7%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F17	27.6	26.9	0.7	2.5%	YES	96.2	95.3	0.2	0.9%	YES	49	8	46	5	6.1%	37.5%	YES
			LKD	W19/F17	28.1	27.5	0.6	2.1%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F17	29	28.4	0.6	2.1%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F17	30.2	29.7	0.5	1.7%	YES	100	100	0.0	0.0%	YES	57	12	53	8	7.0%	33.3%	YES
			LKD	W22/F17	30.8	30.4	0.4	1.3%	YES												
			LKD	W23/F17	31.2	30.9	0.3	1.0%	YES												
			LKD	W24/F17	39.1	39.1	0	0.0%	YES												
			LKD	W25/F17	39	39	0	0.0%	YES												
F18	R1	RESIDENTIAL	LKD	W1/F18	23.6	21.1	2.5	10.6%	YES	100	100	0.0	0.0%	YES	53	10	49	6	7.5%	40.0%	YES
			LKD	W2/F18	23.1	20.6	2.5	10.8%	YES												
			LKD	W24/F18	38.6	38.6	0	0.0%	YES												
			LKD	W25/F18	38.7	38.7	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F18	22.7	20.2	2.5	11.0%	YES	89.7	86.4	0.3	3.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F18	22.5	20	2.5	11.1%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F18	22.1	19.5	2.6	11.8%	YES	70	66.4	0.3	5.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F18	21.5	19	2.5	11.6%	YES	73.2	68	0.6	7.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F18 / INC (2)	22.4	20.1	2.3	10.3%	YES	60.1	57.1	0.3	4.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F18 / INC (2)	21.9	19.6	2.3	10.5%	YES	63.5	58.3	0.5	8.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F18 / INC (2)	21.2	18.8	2.4	11.3%	YES	86.3	86.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F18 / INC (2)	20.2	17.8	2.4	11.9%	YES	98.9	98.9	0.0	0.0%	YES	64	11	62	10	3.1%	9.1%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W11/F18 / INC (2)	19	16.7	2.3	12.1%	YES												
			LKD	W12/F18	27.6	27.2	0.4	1.4%	YES												
			LKD	W13/F18	28.4	28.1	0.3	1.1%	YES												
			LKD	W14/F18	28.7	28.4	0.3	1.0%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F18	29.4	29.1	0.3	1.0%	YES	95.2	95.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F18	30	29.8	0.2	0.7%	YES	96.2	96.1	0.0	0.2%	YES	45	7	42	4	6.7%	42.9%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F18	28.1	27.4	0.7	2.5%	YES	91.8	90.5	0.3	1.4%	YES	48	8	45	5	6.3%	37.5%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F18	29.4	28.8	0.6	2.0%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F18	30.5	30.1	0.4	1.3%	YES	100	100	0.0	0.0%	YES	58	13	54	9	6.9%	30.8%	YES
			LKD	W20/F18	31.1	30.7	0.4	1.3%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W21/F18	31.6	31.2	0.4	1.3%	YES												
			LKD	W22/F18	39.3	39.3	0	0.0%	YES												
			LKD	W23/F18	39.2	39.2	0	0.0%	YES												
F19	R1	RESIDENTIAL	LKD	W1/F19	24.1	21.6	2.5	10.4%	YES	100	100	0.0	0.0%	YES	56	11	51	6	8.9%	45.5%	YES
			LKD	W2/F19	23.7	21.2	2.5	10.5%	YES												
			LKD	W26/F19	38.7	38.7	0	0.0%	YES												
			LKD	W27/F19	38.7	38.7	0	0.0%	YES												
			LKD	W28/F19	38.7	38.7	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F19	23.3	20.7	2.6	11.2%	YES	77.3	77.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F19	22.8	20.2	2.6	11.4%	YES	60.5	60.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F19	22.2	19.6	2.6	11.7%	YES	57.9	57.5	0.0	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F19 / INC (2)	23.2	20.8	2.4	10.3%	YES	52.4	52.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F19 / INC (2)	22.7	20.3	2.4	10.6%	YES	66.2	65.7	0.0	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F19 / INC (2)	22	19.6	2.4	10.9%	YES	95.4	90.1	0.5	5.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F19 / INC (2)	21.6	19.2	2.4	11.1%	YES												
	R8	RESIDENTIAL	LKD	W10/F19 / INC (2)	20.8	18.4	2.4	11.5%	YES	98.9	98.9	0.0	0.0%	YES	66	12	65	11	1.5%	8.3%	YES
			LKD	W11/F19 / INC (2)	19.6	17.2	2.4	12.2%	YES												
			LKD	W12/F19	27.9	27.5	0.4	1.4%	YES												
			LKD	W13/F19	28.7	28.4	0.3	1.0%	YES												
			LKD	W14/F19	29.1	28.8	0.3	1.0%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F19 / INC (2)	29.9	29.7	0.2	0.7%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F19 / INC (2)	30.2	29.9	0.3	1.0%	YES	96	96	0.0	0.0%	YES	48	8	45	5	6.3%	37.5%	YES
			LKD	W17/F19 / INC (2)	30.6	30.3	0.3	1.0%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F19	28.5	27.7	0.8	2.8%	YES	96.3	95.8	0.1	0.5%	YES	50	9	47	6	6.0%	33.3%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	CRITERIA
			LKD	W19/F19	28.9	28.3	0.6	2.1%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F19	29.8	29.2	0.6	2.0%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F19	30.9	30.5	0.4	1.3%	YES	100	100	0.0	0.0%	YES	59	14	54	9	8.5%	35.7%	YES
			LKD	W22/F19	31.5	31	0.5	1.6%	YES												
			LKD	W23/F19	31.9	31.5	0.4	1.3%	YES												
			LKD	W24/F19	39.4	39.4	0	0.0%	YES												
			LKD	W25/F19	39.4	39.4	0	0.0%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
F20	R1	RESIDENTIAL	LKD	W1/F20	24.6	22.2	2.4	9.8%	YES	100	100	0.0	0.0%	YES	57	11	52	6	8.8%	45.5%	YES
			LKD	W2/F20	24.2	21.7	2.5	10.3%	YES												
			LKD	W24/F20	38.7	38.7	0	0.0%	YES												
			LKD	W25/F20	38.7	38.7	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F20	23.9	21.3	2.6	10.9%	YES	89.7	86.5	0.3	3.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F20	23.7	21.1	2.6	11.0%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F20	23.3	20.7	2.6	11.2%	YES	71.3	67.8	0.3	5.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F20	22.8	20.2	2.6	11.4%	YES	74.2	69	0.6	7.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F20 / INC (2)	23.6	21.2	2.4	10.2%	YES	60.6	57.7	0.3	4.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F20 / INC (2)	23.1	20.7	2.4	10.4%	YES	65	60.1	0.5	7.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F20 / INC (2)	22.4	19.9	2.5	11.2%	YES	86.3	86.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F20 / INC (2)	21.4	18.9	2.5	11.7%	YES	99.3	98.9	0.1	0.3%	YES	69	13	67	11	2.9%	15.4%	YES
			LKD	W11/F20 / INC (2)	20.3	17.7	2.6	12.8%	YES												
			LKD	W12/F20	28.3	27.9	0.4	1.4%	YES												
			LKD	W13/F20	29.1	28.8	0.3	1.0%	YES												
			LKD	W14/F20	29.4	29.1	0.3	1.0%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F20	30.1	29.8	0.3	1.0%	YES	96.8	96.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F20	30.7	30.4	0.3	1.0%	YES	97.1	97	0.0	0.1%	YES	49	9	45	5	8.2%	44.4%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F20	29	28.3	0.7	2.4%	YES	92.1	91.4	0.2	0.7%	YES	50	10	46	6	8.0%	40.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F20	30.2	29.6	0.6	2.0%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F20	31.3	30.8	0.5	1.6%	YES	100	100	0.0	0.0%	YES	60	14	56	10	6.7%	28.6%	YES
			LKD	W20/F20	31.9	31.4	0.5	1.6%	YES												
			LKD	W21/F20	32.3	31.9	0.4	1.2%	YES												
			LKD	W22/F20	39.5	39.5	0	0.0%	YES												
			LKD	W23/F20	39.4	39.4	0	0.0%	YES												
F21	R1	RESIDENTIAL	LKD	W1/F21	25.2	22.7	2.5	9.9%	YES	100	100	0.0	0.0%	YES	59	11	54	6	8.5%	45.5%	YES
			LKD	W2/F21	24.8	22.3	2.5	10.1%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W26/F21	38.7	38.7	0	0.0%	YES												
			LKD	W27/F21	38.7	38.7	0	0.0%	YES												
			LKD	W28/F21	38.7	38.7	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F21	24.5	21.9	2.6	10.6%	YES	77.4	77.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W4/F21	24	21.4	2.6	10.8%	YES	61.5	61.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F21	23.5	20.8	2.7	11.5%	YES	58.7	58.4	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F21 / INC (2)	24.3	21.9	2.4	9.9%	YES	53	53	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F21 / INC (2)	24	21.5	2.5	10.4%	YES	67	66.7	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F21 / INC (2)	23.3	20.8	2.5	10.7%	YES	95.4	90.2	0.5	5.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F21 / INC (2)	23	20.4	2.6	11.3%	YES												
	R8	RESIDENTIAL	LKD	W10/F21 / INC (2)	22.1	19.5	2.6	11.8%	YES	99.8	98.9	0.4	0.9%	YES	69	13	66	10	4.3%	23.1%	YES
			LKD	W11/F21 / INC (2)	21	18.3	2.7	12.9%	YES												
			LKD	W12/F21	28.7	28.3	0.4	1.4%	YES												
			LKD	W13/F21	29.5	29.2	0.3	1.0%	YES												
			LKD	W14/F21	29.9	29.6	0.3	1.0%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F21 / INC (2)	30.7	30.4	0.3	1.0%	YES	98.1	98.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F21 / INC (2)	31	30.7	0.3	1.0%	YES	95.9	95.9	0.0	0.0%	YES	50	9	46	5	8.0%	44.4%	YES
			LKD	W17/F21 / INC (2)	31.3	31.1	0.2	0.6%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F21	29.5	28.7	0.8	2.7%	YES	96.3	96.3	0.0	0.0%	YES	53	10	49	6	7.5%	40.0%	YES
			LKD	W19/F21	29.9	29.2	0.7	2.3%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F21	30.7	30.1	0.6	2.0%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F21	31.8	31.3	0.5	1.6%	YES	100	100	0.0	0.0%	YES	61	15	58	12	4.9%	20.0%	YES
			LKD	W22/F21	32.3	31.8	0.5	1.5%	YES												
			LKD	W23/F21	32.7	32.3	0.4	1.2%	YES												
			LKD	W24/F21	39.5	39.5	0	0.0%	YES												
			LKD	W25/F21	39.4	39.4	0	0.0%	YES												
F22	R1	RESIDENTIAL	LKD	W1/F22	25.7	23.3	2.4	9.3%	YES	100	100	0.0	0.0%	YES	60	12	55	7	8.3%	41.7%	YES
			LKD	W2/F22	25.4	22.9	2.5	9.8%	YES												
			LKD	W24/F22	38.7	38.7	0	0.0%	YES												
			LKD	W25/F22	38.8	38.8	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F22	25.1	22.6	2.5	10.0%	YES	89.7	86.6	0.3	3.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F22	25	22.4	2.6	10.4%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F22	24.6	22	2.6	10.6%	YES	72.4	69	0.3	4.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F22	24.2	21.5	2.7	11.2%	YES	75.1	70	0.6	6.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R5	RESIDENTIAL	BEDROOM	W7/F22 / INC (2)	24.9	22.4	2.5	10.0%	YES	61.8	59.1	0.3	4.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
	R6	RESIDENTIAL	BEDROOM	W8/F22 / INC (2)	24.4	21.9	2.5	10.2%	YES	66.4	61.6	0.5	7.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F22 / INC (2)	23.8	21.2	2.6	10.9%	YES	86.4	86.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F22 / INC (2)	22.8	20.1	2.7	11.8%	YES	99.9	98.9	0.4	0.9%	YES	71	13	68	10	4.2%	23.1%	YES
			LKD	W11/F22 / INC (2)	21.7	18.9	2.8	12.9%	YES												
			LKD	W12/F22	29.2	28.8	0.4	1.4%	YES												
			LKD	W13/F22	30	29.6	0.4	1.3%	YES												
			LKD	W14/F22	30.4	30	0.4	1.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F22	31	30.7	0.3	1.0%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F22	31.5	31.3	0.2	0.6%	YES	97.1	97.1	0.0	0.1%	YES	51	9	47	5	7.8%	44.4%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F22	30.1	29.3	0.8	2.7%	YES	92.9	92.7	0.0	0.2%	YES	54	10	51	7	5.6%	30.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F22	31.2	30.6	0.6	1.9%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F22	32.3	31.7	0.6	1.9%	YES	100	100	0.0	0.0%	YES	62	16	59	13	4.8%	18.8%	YES
			LKD	W20/F22	32.7	32.2	0.5	1.5%	YES												
			LKD	W21/F22	33.1	32.6	0.5	1.5%	YES												
			LKD	W22/F22	39.5	39.5	0	0.0%	YES												
			LKD	W23/F22	39.4	39.4	0	0.0%	YES												
F23	R1	RESIDENTIAL	LKD	W1/F23	26.3	23.9	2.4	9.1%	YES	100	100	0.0	0.0%	YES	60	12	55	7	8.3%	41.7%	YES
			LKD	W2/F23	26	23.5	2.5	9.6%	YES												
			LKD	W26/F23	38.8	38.8	0	0.0%	YES												
			LKD	W27/F23	38.8	38.8	0	0.0%	YES												
			LKD	W28/F23	38.8	38.8	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F23	25.8	23.2	2.6	10.1%	YES	77.6	77.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F23	25.4	22.8	2.6	10.2%	YES	62.6	62.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F23	25	22.2	2.8	11.2%	YES	59.7	59.5	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F23 / INC (2)	25.6	23.1	2.5	9.8%	YES	54.1	54.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F23 / INC (2)	25.3	22.7	2.6	10.3%	YES	68.1	68	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F23 / INC (2)	24.7	22.1	2.6	10.5%	YES	95.4	90.4	0.5	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F23 / INC (2)	24.4	21.7	2.7	11.1%	YES												
	R8	RESIDENTIAL	LKD	W10/F23 / INC (2)	23.6	20.9	2.7	11.4%	YES	99.9	98.9	0.4	0.9%	YES	73	13	70	10	4.1%	23.1%	YES
			LKD	W11/F23 / INC (2)	22.5	19.7	2.8	12.4%	YES												
			LKD	W12/F23	29.8	29.3	0.5	1.7%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W13/F23	30.6	30.2	0.4	1.3%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W14/F23	30.9	30.5	0.4	1.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F23 / INC (2)	31.7	31.4	0.3	0.9%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F23 / INC (2)	31.9	31.6	0.3	0.9%	YES	95.8	95.8	0.0	0.0%	YES	53	9	50	6	5.7%	33.3%	YES
			LKD	W17/F23 / INC (2)	32.2	31.9	0.3	0.9%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F23	30.7	29.8	0.9	2.9%	YES	96.3	96.3	0.0	0.0%	YES	55	10	52	7	5.5%	30.0%	YES
			LKD	W19/F23	31.1	30.3	0.8	2.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F23	31.8	31.1	0.7	2.2%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F23	32.8	32.2	0.6	1.8%	YES	100	100	0.0	0.0%	YES	62	16	59	13	4.8%	18.8%	YES
			LKD	W22/F23	33.2	32.6	0.6	1.8%	YES												
			LKD	W23/F23	33.5	33.1	0.4	1.2%	YES												
			LKD	W24/F23	39.5	39.5	0	0.0%	YES												
			LKD	W25/F23	39.4	39.4	0	0.0%	YES												
F24	R1	RESIDENTIAL	LKD	W1/F24	26.9	24.5	2.4	8.9%	YES	100	100	0.0	0.0%	YES	60	12	55	7	8.3%	41.7%	YES
			LKD	W2/F24	26.7	24.2	2.5	9.4%	YES												
			LKD	W24/F24	38.8	38.8	0	0.0%	YES												
			LKD	W25/F24	38.8	38.8	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F24	26.5	23.9	2.6	9.8%	YES	89.8	86.6	0.3	3.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F24	26.4	23.7	2.7	10.2%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F24	26.1	23.4	2.7	10.3%	YES	73.8	70.8	0.3	4.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F24	25.8	23	2.8	10.9%	YES	76.4	71.3	0.6	6.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F24 / INC (2)	26.3	23.7	2.6	9.9%	YES	63	60.6	0.3	3.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F24 / INC (2)	25.9	23.3	2.6	10.0%	YES	68.2	63.7	0.5	6.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F24 / INC (2)	25.4	22.6	2.8	11.0%	YES	86.8	86.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F24 / INC (2)	24.5	21.7	2.8	11.4%	YES	99.9	99	0.4	0.9%	YES	75	13	73	11	2.7%	15.4%	YES
			LKD	W11/F24 / INC (2)	23.4	20.5	2.9	12.4%	YES												
			LKD	W12/F24	30.5	30	0.5	1.6%	YES												
			LKD	W13/F24	31.2	30.8	0.4	1.3%	YES												
			LKD	W14/F24	31.5	31.1	0.4	1.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F24	32	31.7	0.3	0.9%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F24	32.5	32.2	0.3	0.9%	YES	97.1	97.1	0.0	0.0%	YES	53	9	50	6	5.7%	33.3%	YES
DEANSGATE WEST TOWER (CONTINUED)																					
	R11 (3)	RESIDENTIAL	LKD	W17/F24	31.4	30.5	0.9	2.9%	YES	94	94	0.0	0.0%	YES	54	10	51	7	5.6%	30.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F24	32.4	31.7	0.7	2.2%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F24	33.3	32.7	0.6	1.8%	YES	100	100	0.0	0.0%	YES	63	17	60	14	4.8%	17.6%	YES
			LKD	W20/F24	33.7	33.1	0.6	1.8%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W21/F24	34	33.5	0.5	1.5%	YES												
			LKD	W22/F24	39.5	39.5	0	0.0%	YES												
			LKD	W23/F24	39.4	39.4	0	0.0%	YES												
F25	R1	RESIDENTIAL	LKD	W1/F25	27.5	25.1	2.4	8.7%	YES	100	100	0.0	0.0%	YES	62	13	57	8	8.1%	38.5%	YES
			LKD	W2/F25	27.4	24.9	2.5	9.1%	YES												
			LKD	W26/F25	38.8	38.8	0	0.0%	YES												
			LKD	W27/F25	38.8	38.8	0	0.0%	YES												
			LKD	W28/F25	38.8	38.8	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F25	27.2	24.6	2.6	9.6%	YES	77.8	77.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F25	26.9	24.2	2.7	10.0%	YES	64.8	64.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F25	26.5	23.8	2.7	10.2%	YES	61.4	61.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F25 / INC (2)	27.1	24.5	2.6	9.6%	YES	55.8	55.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F25 / INC (2)	26.9	24.2	2.7	10.0%	YES	69.9	69.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F25 / INC (2)	26.4	23.6	2.8	10.6%	YES	95.4	90.6	0.5	5.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F25 / INC (2)	26.1	23.3	2.8	10.7%	YES												
	R8	RESIDENTIAL	LKD	W10/F25 / INC (2)	25.4	22.5	2.9	11.4%	YES	99.9	99	0.3	0.9%	YES	78	15	76	13	2.6%	13.3%	YES
			LKD	W11/F25 / INC (2)	24.4	21.4	3	12.3%	YES												
			LKD	W12/F25	31.2	30.7	0.5	1.6%	YES												
			LKD	W13/F25	31.9	31.5	0.4	1.3%	YES												
			LKD	W14/F25	32.2	31.8	0.4	1.2%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F25 / INC (2)	32.8	32.5	0.3	0.9%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F25 / INC (2)	33	32.7	0.3	0.9%	YES	95.9	95.8	0.0	0.0%	YES	55	11	52	8	5.5%	27.3%	YES
			LKD	W17/F25 / INC (2)	33.2	32.9	0.3	0.9%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F25	32	31.1	0.9	2.8%	YES	96.4	96.4	0.0	0.0%	YES	58	13	55	10	5.2%	23.1%	YES
			LKD	W19/F25	32.4	31.5	0.9	2.8%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F25	33	32.2	0.8	2.4%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F25	33.8	33.2	0.6	1.8%	YES	100	100	0.0	0.0%	YES	63	17	61	15	3.2%	11.8%	YES
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W22/F25	34.2	33.5	0.7	2.0%	YES												
			LKD	W23/F25	34.5	33.9	0.6	1.7%	YES												
			LKD	W24/F25	39.5	39.5	0	0.0%	YES												
			LKD	W25/F25	39.4	39.4	0	0.0%	YES												
F26	R1	RESIDENTIAL	LKD	W1/F26	28	25.7	2.3	8.2%	YES	100	100	0.0	0.0%	YES	63	14	58	9	7.9%	35.7%	YES
			LKD	W2/F26	27.9	25.5	2.4	8.6%	YES												
			LKD	W24/F26	38.8	38.8	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W25/F26	38.8	38.8	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F26	27.8	25.3	2.5	9.0%	YES	89.7	86.7	0.3	3.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F26	27.7	25.2	2.5	9.0%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F26	27.6	24.9	2.7	9.8%	YES	76.1	73.3	0.3	3.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F26	27.3	24.6	2.7	9.9%	YES	78.1	73.3	0.5	6.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F26 / INC (2)	27.7	25.1	2.6	9.4%	YES	65.4	63.6	0.2	2.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F26 / INC (2)	27.4	24.8	2.6	9.5%	YES	70.8	66.8	0.4	5.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F26 / INC (2)	27	24.3	2.7	10.0%	YES	88.2	88.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F26 / INC (2)	26.3	23.5	2.8	10.6%	YES	99.9	99.1	0.3	0.8%	YES	79	15	78	14	1.3%	6.7%	YES
			LKD	W11/F26 / INC (2)	25.4	22.4	3	11.8%	YES												
			LKD	W12/F26	32.1	31.6	0.5	1.6%	YES												
			LKD	W13/F26	32.7	32.2	0.5	1.5%	YES												
			LKD	W14/F26	32.9	32.5	0.4	1.2%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F26	33.3	32.9	0.4	1.2%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F26	33.6	33.3	0.3	0.9%	YES	97.1	97.1	0.0	0.0%	YES	56	12	53	9	5.4%	25.0%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F26	32.8	31.9	0.9	2.7%	YES	94	94	0.0	0.0%	YES	58	14	56	12	3.4%	14.3%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F26	33.7	32.8	0.9	2.7%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F26	34.4	33.7	0.7	2.0%	YES	100	100	0.0	0.0%	YES	63	17	60	14	4.8%	17.6%	YES
			LKD	W20/F26	34.7	34	0.7	2.0%	YES												
			LKD	W21/F26	34.9	34.3	0.6	1.7%	YES												
			LKD	W22/F26	39.5	39.5	0	0.0%	YES												
			LKD	W23/F26	39.4	39.4	0	0.0%	YES												
F27	R1	RESIDENTIAL	LKD	W1/F27	28.5	26.2	2.3	8.1%	YES	100	100	0.0	0.0%	YES	64	15	59	10	7.8%	33.3%	YES
			LKD	W2/F27	28.4	26	2.4	8.5%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W26/F27	38.8	38.8	0	0.0%	YES												
			LKD	W27/F27	38.8	38.8	0	0.0%	YES												
			LKD	W28/F27	38.9	38.9	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F27	28.3	25.9	2.4	8.5%	YES	78.9	78.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F27	28.2	25.7	2.5	8.9%	YES	67.8	67.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F27	27.9	25.3	2.6	9.3%	YES	64	64	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F27 / INC (2)	28.3	25.9	2.4	8.5%	YES	58.5	58.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F27 / INC (2)	28.2	25.7	2.5	8.9%	YES	72.7	72.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F27 / INC (2)	27.9	25.3	2.6	9.3%	YES	95.4	91.3	0.4	4.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F27 / INC (2)	27.7	25.1	2.6	9.4%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R8	RESIDENTIAL	LKD	W10/F27 / INC (2)	27.2	24.5	2.7	9.9%	YES	99.9	99.1	0.3	0.7%	YES	80	16	79	15	1.3%	6.3%	YES
			LKD	W11/F27 / INC (2)	26.4	23.6	2.8	10.6%	YES												
			LKD	W12/F27	33	32.5	0.5	1.5%	YES												
			LKD	W13/F27	33.5	33	0.5	1.5%	YES												
			LKD	W14/F27	33.7	33.2	0.5	1.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F27 / INC (2)	34.1	33.8	0.3	0.9%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F27 / INC (2)	34.2	33.9	0.3	0.9%	YES	95.8	95.8	0.0	0.0%	YES	58	14	56	12	3.4%	14.3%	YES
			LKD	W17/F27 / INC (2)	34.4	34	0.4	1.2%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F27	33.5	32.5	1	3.0%	YES	96.5	96.5	0.0	0.0%	YES	60	15	58	13	3.3%	13.3%	YES
			LKD	W19/F27	33.8	32.9	0.9	2.7%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F27	34.3	33.5	0.8	2.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F27	34.9	34.2	0.7	2.0%	YES	100	100	0.0	0.0%	YES	64	18	61	15	4.7%	16.7%	YES
			LKD	W22/F27	35.2	34.5	0.7	2.0%	YES												
			LKD	W23/F27	35.4	34.8	0.6	1.7%	YES												
			LKD	W24/F27	39.5	39.5	0	0.0%	YES												
			LKD	W25/F27	39.4	39.4	0	0.0%	YES												
F28	R1	RESIDENTIAL	LKD	W1/F28	28.9	26.7	2.2	7.6%	YES	100	100	0.0	0.0%	YES	67	16	63	12	6.0%	25.0%	YES
			LKD	W2/F28	28.9	26.6	2.3	8.0%	YES												
			LKD	W24/F28	38.8	38.8	0	0.0%	YES												
			LKD	W25/F28	38.9	38.9	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F28	28.8	26.5	2.3	8.0%	YES	89.8	87.3	0.2	2.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
			BEDROOM	W4/F28	28.8	26.5	2.3	8.0%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F28	28.7	26.3	2.4	8.4%	YES	79.6	77.2	0.2	3.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F28	28.6	26.1	2.5	8.7%	YES	80.7	76.1	0.5	5.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F28 / INC (2)	28.9	26.5	2.4	8.3%	YES	68.5	67.3	0.1	1.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F28 / INC (2)	28.8	26.3	2.5	8.7%	YES	73.8	70.5	0.3	4.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F28 / INC (2)	28.6	26	2.6	9.1%	YES	91.2	91.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F28 / INC (2)	28.1	25.5	2.6	9.3%	YES	99.9	99.5	0.1	0.4%	YES	82	17	81	16	1.2%	5.9%	YES
			LKD	W11/F28 / INC (2)	27.5	24.8	2.7	9.8%	YES												
			LKD	W12/F28	33.9	33.4	0.5	1.5%	YES												
			LKD	W13/F28	34.3	33.9	0.4	1.2%	YES												
			LKD	W14/F28	34.4	34	0.4	1.2%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F28	34.7	34.3	0.4	1.2%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F28	34.9	34.5	0.4	1.1%	YES	97.1	97.1	0.0	0.0%	YES	59	15	57	13	3.4%	13.3%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R11 (3)	RESIDENTIAL	LKD	W17/F28	34.3	33.4	0.9	2.6%	YES	94	94	0.0	0.0%	YES	61	17	59	15	3.3%	11.8%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F28	34.9	34.1	0.8	2.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F28	35.5	34.7	0.8	2.3%	YES	100	100	0.0	0.0%	YES	66	20	63	17	4.5%	15.0%	YES
			LKD	W20/F28	35.7	35	0.7	2.0%	YES												
			LKD	W21/F28	35.9	35.2	0.7	1.9%	YES												
			LKD	W22/F28	39.5	39.5	0	0.0%	YES												
			LKD	W23/F28	39.4	39.4	0	0.0%	YES												
F29	R1	RESIDENTIAL	LKD	W1/F29	29.4	27.3	2.1	7.1%	YES	100	100	0.0	0.0%	YES	67	16	63	12	6.0%	25.0%	YES
			LKD	W2/F29	29.4	27.2	2.2	7.5%	YES												
			LKD	W26/F29	38.9	38.9	0	0.0%	YES												
			LKD	W27/F29	38.9	38.9	0	0.0%	YES												
			LKD	W28/F29	38.9	38.9	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F29	29.4	27.1	2.3	7.8%	YES	81.7	81.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F29	29.3	27	2.3	7.8%	YES	72.9	72.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F29	29.2	26.8	2.4	8.2%	YES	67.8	67.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F29 / INC (2)	29.5	27.2	2.3	7.8%	YES	62.1	62.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F29 / INC (2)	29.5	27.2	2.3	7.8%	YES	77.6	77.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F29 / INC (2)	29.3	26.9	2.4	8.2%	YES	95.7	92.7	0.3	3.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
			BEDROOM	W9/F29 / INC (2)	29.3	26.8	2.5	8.5%	YES												
	R8	RESIDENTIAL	LKD	W10/F29 / INC (2)	29	26.5	2.5	8.6%	YES	99.9	99.6	0.1	0.2%	YES	85	19	84	18	1.2%	5.3%	YES
			LKD	W11/F29 / INC (2)	28.6	26	2.6	9.1%	YES												
			LKD	W12/F29	34.9	34.4	0.5	1.4%	YES												
			LKD	W13/F29	35.2	34.7	0.5	1.4%	YES												
			LKD	W14/F29	35.2	34.8	0.4	1.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F29 / INC (2)	35.5	35.1	0.4	1.1%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F29 / INC (2)	35.5	35.2	0.3	0.8%	YES	96.3	96.3	0.0	0.0%	YES	62	18	60	16	3.2%	11.1%	YES
			LKD	W17/F29 / INC (2)	35.6	35.2	0.4	1.1%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F29	35	34	1	2.9%	YES	96.5	96.5	0.0	0.0%	YES	64	19	62	17	3.1%	10.5%	YES
			LKD	W19/F29	35.2	34.3	0.9	2.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F29	35.6	34.7	0.9	2.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F29	36	35.3	0.7	1.9%	YES	100	100	0.0	0.0%	YES	66	20	63	17	4.5%	15.0%	YES
			LKD	W22/F29	36.2	35.4	0.8	2.2%	YES												
			LKD	W23/F29	36.3	35.6	0.7	1.9%	YES												
			LKD	W24/F29	39.5	39.5	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W25/F29	39.4	39.4	0	0.0%	YES												
F30	R1	RESIDENTIAL	LKD	W1/F30	29.9	27.9	2	6.7%	YES	100	100	0.0	0.0%	YES	68	17	64	13	5.9%	23.5%	YES
			LKD	W2/F30	29.9	27.8	2.1	7.0%	YES												
			LKD	W24/F30	38.9	38.9	0	0.0%	YES												
			LKD	W25/F30	38.9	38.9	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F30	29.9	27.8	2.1	7.0%	YES	89.8	88.2	0.2	1.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F30	29.9	27.7	2.2	7.4%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F30	29.9	27.7	2.2	7.4%	YES	84.7	83.5	0.1	1.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F30	29.9	27.6	2.3	7.7%	YES	84	80.2	0.4	4.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F30 / INC (2)	30.1	27.9	2.2	7.3%	YES	73.3	73	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F30 / INC (2)	30.1	27.9	2.2	7.3%	YES	79.1	76.6	0.3	3.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F30 / INC (2)	30.1	27.8	2.3	7.6%	YES	95.7	95.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F30 / INC (2)	29.9	27.5	2.4	8.0%	YES	99.9	99.7	0.1	0.2%	YES	88	21	87	20	1.1%	4.8%	YES
			LKD	W11/F30 / INC (2)	29.8	27.2	2.6	8.7%	YES												
			LKD	W12/F30	35.8	35.4	0.4	1.1%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W13/F30	36	35.6	0.4	1.1%	YES												
			LKD	W14/F30	36.1	35.6	0.5	1.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F30	36.1	35.7	0.4	1.1%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F30	36.1	35.8	0.3	0.8%	YES	97.1	97.1	0.0	0.0%	YES	63	19	61	17	3.2%	10.5%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F30	35.8	34.8	1	2.8%	YES	94	94	0.0	0.0%	YES	64	20	62	18	3.1%	10.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F30	36.2	35.3	0.9	2.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F30	36.6	35.8	0.8	2.2%	YES	100	100	0.0	0.0%	YES	66	20	63	17	4.5%	15.0%	YES
			LKD	W20/F30	36.7	35.9	0.8	2.2%	YES												
			LKD	W21/F30	36.8	36.1	0.7	1.9%	YES												
			LKD	W22/F30	39.5	39.5	0	0.0%	YES												
			LKD	W23/F30	39.4	39.4	0	0.0%	YES												
F31	R1	RESIDENTIAL	LKD	W1/F31	30.3	28.4	1.9	6.3%	YES	100	100	0.0	0.0%	YES	70	18	66	14	5.7%	22.2%	YES
			LKD	W2/F31	30.4	28.4	2	6.6%	YES												
			LKD	W26/F31	38.9	38.9	0	0.0%	YES												
			LKD	W27/F31	38.9	38.9	0	0.0%	YES												
			LKD	W28/F31	38.9	38.9	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F31	30.4	28.4	2	6.6%	YES	87.5	87.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F31	30.4	28.3	2.1	6.9%	YES	79.5	79.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F31	30.4	28.2	2.2	7.2%	YES	73.8	73.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R5	RESIDENTIAL	BEDROOM	W6/F31 / INC (2)	30.6	28.6	2	6.5%	YES	67.9	67.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F31 / INC (2)	30.8	28.6	2.2	7.1%	YES	84.5	84.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F31 / INC (2)	30.8	28.6	2.2	7.1%	YES	97.6	95.5	0.2	2.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F31 / INC (2)	30.8	28.5	2.3	7.5%	YES												
	R8	RESIDENTIAL	LKD	W10/F31 / INC (2)	30.8	28.5	2.3	7.5%	YES	99.9	99.7	0.1	0.2%	YES	88	21	87	20	1.1%	4.8%	YES
			LKD	W11/F31 / INC (2)	30.8	28.4	2.4	7.8%	YES												
			LKD	W12/F31	36.7	36.3	0.4	1.1%	YES												
			LKD	W13/F31	36.8	36.4	0.4	1.1%	YES												
			LKD	W14/F31	36.8	36.4	0.4	1.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F31 / INC (2)	36.8	36.5	0.3	0.8%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F31 / INC (2)	36.7	36.4	0.3	0.8%	YES	96.6	96.6	0.0	0.0%	YES	63	19	61	17	3.2%	10.5%	YES
			LKD	W17/F31 / INC (2)	36.7	36.3	0.4	1.1%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
	R11 (3)	RESIDENTIAL	LKD	W18/F31	36.4	35.5	0.9	2.5%	YES	96.6	96.6	0.0	0.0%	YES	65	20	63	18	3.1%	10.0%	YES
			LKD	W19/F31	36.6	35.7	0.9	2.5%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F31	36.8	35.9	0.9	2.4%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F31	37.1	36.3	0.8	2.2%	YES	100	100	0.0	0.0%	YES	66	20	63	17	4.5%	15.0%	YES
			LKD	W22/F31	37.1	36.4	0.7	1.9%	YES												
			LKD	W23/F31	37.2	36.5	0.7	1.9%	YES												
			LKD	W24/F31	39.5	39.5	0	0.0%	YES												
			LKD	W25/F31	39.4	39.4	0	0.0%	YES												
F32	R1	RESIDENTIAL	LKD	W1/F32	30.8	28.9	1.9	6.2%	YES	100	100	0.0	0.0%	YES	70	18	66	14	5.7%	22.2%	YES
			LKD	W2/F32	30.8	28.9	1.9	6.2%	YES												
			LKD	W24/F32	38.9	38.9	0	0.0%	YES												
			LKD	W25/F32	39	39	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F32	30.9	28.9	2	6.5%	YES	92.9	92.5	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F32	30.9	29	1.9	6.1%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F32	31	28.9	2.1	6.8%	YES	93.1	92.4	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F32	31	28.9	2.1	6.8%	YES	89.3	87	0.3	2.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F32 / INC (2)	31.1	29.2	1.9	6.1%	YES	80.2	80.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F32 / INC (2)	31.3	29.2	2.1	6.7%	YES	86.5	85.3	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F32 / INC (2)	31.4	29.3	2.1	6.7%	YES	99.1	99.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F32 / INC (2)	31.5	29.3	2.2	7.0%	YES	99.9	99.7	0.1	0.2%	YES	88	21	87	20	1.1%	4.8%	YES
			LKD	W11/F32 / INC (2)	31.6	29.3	2.3	7.3%	YES												
			LKD	W12/F32	37.4	36.9	0.5	1.3%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W13/F32	37.4	37	0.4	1.1%	YES												
			LKD	W14/F32	37.3	37	0.3	0.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F32	37.2	36.9	0.3	0.8%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F32	37.1	36.8	0.3	0.8%	YES	97.1	97.1	0.0	0.0%	YES	63	19	61	17	3.2%	10.5%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F32	36.9	36	0.9	2.4%	YES	94	94	0.0	0.0%	YES	64	20	62	18	3.1%	10.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F32	37.2	36.4	0.8	2.2%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F32	37.4	36.7	0.7	1.9%	YES	100	100	0.0	0.0%	YES	66	20	64	18	3.0%	10.0%	YES
			LKD	W20/F32	37.5	36.7	0.8	2.1%	YES												
			LKD	W21/F32	37.5	36.8	0.7	1.9%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W22/F32	39.5	39.5	0	0.0%	YES												
			LKD	W23/F32	39.4	39.4	0	0.0%	YES												
F33	R1	RESIDENTIAL	LKD	W1/F33	31.1	29.4	1.7	5.5%	YES	100	100	0.0	0.0%	YES	71	19	67	15	5.6%	21.1%	YES
			LKD	W2/F33	31.2	29.4	1.8	5.8%	YES												
			LKD	W26/F33	38.9	38.9	0	0.0%	YES												
			LKD	W27/F33	39	39	0	0.0%	YES												
			LKD	W28/F33	39	39	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F33	31.3	29.4	1.9	6.1%	YES	97.3	97.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F33	31.3	29.4	1.9	6.1%	YES	89.4	89.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F33	31.2	29.3	1.9	6.1%	YES	82.8	82.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F33 / INC (2)	31.4	29.6	1.8	5.7%	YES	77.3	77.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F33 / INC (2)	31.6	29.7	1.9	6.0%	YES	91.2	91.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F33 / INC (2)	31.7	29.7	2	6.3%	YES	98.8	97.5	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F33 / INC (2)	31.7	29.7	2	6.3%	YES												
	R8	RESIDENTIAL	LKD	W10/F33 / INC (2)	31.8	29.8	2	6.3%	YES	99.9	99.7	0.1	0.2%	YES	88	21	87	20	1.1%	4.8%	YES
			LKD	W11/F33 / INC (2)	32	29.8	2.2	6.9%	YES												
			LKD	W12/F33	37.5	37.1	0.4	1.1%	YES												
			LKD	W13/F33	37.5	37.1	0.4	1.1%	YES												
			LKD	W14/F33	37.5	37.1	0.4	1.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F33 / INC (2)	37.4	37	0.4	1.1%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F33 / INC (2)	37.3	36.9	0.4	1.1%	YES	96.9	96.9	0.0	0.0%	YES	63	19	62	18	1.6%	5.3%	YES
			LKD	W17/F33 / INC (2)	37.2	36.9	0.3	0.8%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F33	37	36.1	0.9	2.4%	YES	97	97	0.0	0.0%	YES	65	20	64	19	1.5%	5.0%	YES
			LKD	W19/F33	37.2	36.3	0.9	2.4%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F33	37.3	36.5	0.8	2.1%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R13	RESIDENTIAL	LKD	W21/F33	37.5	36.8	0.7	1.9%	YES	100	100	0.0	0.0%	YES	66	20	65	19	1.5%	5.0%	YES
			LKD	W22/F33	37.6	36.8	0.8	2.1%	YES												
			LKD	W23/F33	37.6	36.9	0.7	1.9%	YES												
			LKD	W24/F33	39.5	39.5	0	0.0%	YES												
			LKD	W25/F33	39.4	39.4	0	0.0%	YES												
F34	R1	RESIDENTIAL	LKD	W1/F34	31.5	29.9	1.6	5.1%	YES	100	100	0.0	0.0%	YES	71	19	68	16	4.2%	15.8%	YES
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W2/F34	31.6	29.9	1.7	5.4%	YES												
			LKD	W24/F34	38.9	38.9	0	0.0%	YES												
			LKD	W25/F34	39	39	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F34	31.6	29.9	1.7	5.4%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F34	31.7	29.9	1.8	5.7%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F34	31.7	29.8	1.9	6.0%	YES	96.3	96.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F34	31.7	29.8	1.9	6.0%	YES	91.9	90.9	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F34 / INC (2)	31.8	30.1	1.7	5.3%	YES	91.2	91.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F34 / INC (2)	31.9	30.1	1.8	5.6%	YES	89.4	89.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F34 / INC (2)	32.1	30.2	1.9	5.9%	YES	99.1	99.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F34 / INC (2)	32.2	30.2	2	6.2%	YES	99.9	99.7	0.1	0.2%	YES	89	21	88	20	1.1%	4.8%	YES
			LKD	W11/F34 / INC (2)	32.3	30.2	2.1	6.5%	YES												
			LKD	W12/F34	37.6	37.2	0.4	1.1%	YES												
			LKD	W13/F34	37.6	37.2	0.4	1.1%	YES												
			LKD	W14/F34	37.6	37.2	0.4	1.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F34	37.4	37.1	0.3	0.8%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F34	37.3	37	0.3	0.8%	YES	97.1	97.1	0.0	0.0%	YES	63	19	62	18	1.6%	5.3%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F34	37.2	36.3	0.9	2.4%	YES	94	94	0.0	0.0%	YES	64	20	63	19	1.6%	5.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F34	37.4	36.7	0.7	1.9%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F34	37.6	36.9	0.7	1.9%	YES	100	100	0.0	0.0%	YES	66	20	65	19	1.5%	5.0%	YES
			LKD	W20/F34	37.7	37	0.7	1.9%	YES												
			LKD	W21/F34	37.7	37.1	0.6	1.6%	YES												
			LKD	W22/F34	39.5	39.5	0	0.0%	YES												
			LKD	W23/F34	39.4	39.4	0	0.0%	YES												
F35	R1	RESIDENTIAL	LKD	W1/F35	31.9	30.4	1.5	4.7%	YES	100	100	0.0	0.0%	YES	71	19	68	16	4.2%	15.8%	YES
			LKD	W2/F35	31.9	30.4	1.5	4.7%	YES												
			LKD	W26/F35	39	39	0	0.0%	YES												
			LKD	W27/F35	39	39	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W28/F35	39	39	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F35	32	30.4	1.6	5.0%	YES	99	99	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F35	32	30.3	1.7	5.3%	YES	92	92	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE WEST TOWER (CONTINUED)																					
	R4	RESIDENTIAL	BEDROOM	W5/F35	31.9	30.2	1.7	5.3%	YES	92.8	92.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F35 / INC (2)	32.1	30.5	1.6	5.0%	YES	88.5	88.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F35 / INC (2)	32.3	30.6	1.7	5.3%	YES	93.7	93.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F35 / INC (2)	32.4	30.6	1.8	5.6%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F35 / INC (2)	32.4	30.6	1.8	5.6%	YES												
	R8	RESIDENTIAL	LKD	W10/F35 / INC (2)	32.5	30.6	1.9	5.8%	YES	100	99.7	0.1	0.3%	YES	90	21	89	20	1.1%	4.8%	YES
			LKD	W11/F35 / INC (2)	32.6	30.6	2	6.1%	YES												
			LKD	W12/F35	37.7	37.3	0.4	1.1%	YES												
			LKD	W13/F35	37.7	37.4	0.3	0.8%	YES												
			LKD	W14/F35	37.7	37.3	0.4	1.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F35 / INC (2)	37.6	37.3	0.3	0.8%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F35 / INC (2)	37.5	37.2	0.3	0.8%	YES	97.3	97.3	0.0	0.0%	YES	63	19	62	18	1.6%	5.3%	YES
			LKD	W17/F35 / INC (2)	37.4	37.1	0.3	0.8%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F35	37.2	36.5	0.7	1.9%	YES	97.1	97.1	0.0	0.0%	YES	65	20	64	19	1.5%	5.0%	YES
			LKD	W19/F35	37.4	36.6	0.8	2.1%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F35	37.5	36.8	0.7	1.9%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F35	37.7	37.1	0.6	1.6%	YES	100	100	0.0	0.0%	YES	66	20	65	19	1.5%	5.0%	YES
			LKD	W22/F35	37.8	37.1	0.7	1.9%	YES												
			LKD	W23/F35	37.8	37.2	0.6	1.6%	YES												
			LKD	W24/F35	39.5	39.5	0	0.0%	YES												
			LKD	W25/F35	39.4	39.4	0	0.0%	YES												
F36	R1	RESIDENTIAL	LKD	W1/F36	32.3	30.8	1.5	4.6%	YES	100	100	0.0	0.0%	YES	73	20	70	17	4.1%	15.0%	YES
			LKD	W2/F36	32.3	30.8	1.5	4.6%	YES												
			LKD	W24/F36	39	39	0	0.0%	YES												
			LKD	W25/F36	39	39	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F36	32.4	30.8	1.6	4.9%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F36	32.4	30.8	1.6	4.9%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F36	32.4	30.7	1.7	5.2%	YES	96.4	96.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F36	32.4	30.7	1.7	5.2%	YES	93.4	93.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F36 / INC (2)	32.5	31	1.5	4.6%	YES	93.6	93.6	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F36 / INC (2)	32.6	31	1.6	4.9%	YES	91.2	91.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
DEANSGATE WEST TOWER (CONTINUED)																					
	R7	RESIDENTIAL	BEDROOM	W9/F36 / INC (2)	32.8	31	1.8	5.5%	YES	99.1	99.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F36 / INC (2)	32.9	31	1.9	5.8%	YES	100	99.7	0.1	0.3%	YES	90	21	89	20	1.1%	4.8%	YES
			LKD	W11/F36 / INC (2)	33	31	2	6.1%	YES												
			LKD	W12/F36	37.8	37.5	0.3	0.8%	YES												
			LKD	W13/F36	37.8	37.5	0.3	0.8%	YES												
			LKD	W14/F36	37.8	37.5	0.3	0.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F36	37.7	37.4	0.3	0.8%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F36	37.5	37.3	0.2	0.5%	YES	97.1	97.1	0.0	0.0%	YES	63	19	62	18	1.6%	5.3%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F36	37.4	36.7	0.7	1.9%	YES	94.2	94.2	0.0	0.0%	YES	64	20	63	19	1.6%	5.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F36	37.6	37	0.6	1.6%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F36	37.9	37.2	0.7	1.8%	YES	100	100	0.0	0.0%	YES	66	20	65	19	1.5%	5.0%	YES
			LKD	W20/F36	37.9	37.3	0.6	1.6%	YES												
			LKD	W21/F36	37.9	37.4	0.5	1.3%	YES												
			LKD	W22/F36	39.5	39.5	0	0.0%	YES												
			LKD	W23/F36	39.4	39.4	0	0.0%	YES												
F37	R1	RESIDENTIAL	LKD	W1/F37	32.7	31.2	1.5	4.6%	YES	100	100	0.0	0.0%	YES	73	20	71	18	2.7%	10.0%	YES
			LKD	W2/F37	32.7	31.2	1.5	4.6%	YES												
			LKD	W26/F37	39	39	0	0.0%	YES												
			LKD	W27/F37	39	39	0	0.0%	YES												
			LKD	W28/F37	39.1	39.1	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F37	32.8	31.2	1.6	4.9%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F37	32.8	31.2	1.6	4.9%	YES	93.9	93.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F37	32.7	31	1.7	5.2%	YES	93.2	93.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F37 / INC (2)	32.9	31.3	1.6	4.9%	YES	91.3	91.1	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F37 / INC (2)	33	31.4	1.6	4.8%	YES	94.9	94.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F37 / INC (2)	33.1	31.4	1.7	5.1%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F37 / INC (2)	33.1	31.4	1.7	5.1%	YES												
	R8	RESIDENTIAL	LKD	W10/F37 / INC (2)	33.2	31.4	1.8	5.4%	YES	100	99.7	0.1	0.3%	YES	90	21	89	20	1.1%	4.8%	YES
			LKD	W11/F37 / INC (2)	33.3	31.4	1.9	5.7%	YES												
			LKD	W12/F37	37.9	37.6	0.3	0.8%	YES												
			LKD	W13/F37	37.9	37.6	0.3	0.8%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W14/F37	37.9	37.6	0.3	0.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F37 / INC (2)	37.8	37.5	0.3	0.8%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R10	RESIDENTIAL	LKD	W16/F37 / INC (2)	37.7	37.4	0.3	0.8%	YES	97.4	97.4	0.0	0.0%	YES	63	19	62	18	1.6%	5.3%	YES
			LKD	W17/F37 / INC (2)	37.6	37.3	0.3	0.8%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F37	37.4	36.8	0.6	1.6%	YES	97.3	97.3	0.0	0.0%	YES	65	20	64	19	1.5%	5.0%	YES
			LKD	W19/F37	37.6	36.9	0.7	1.9%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F37	37.7	37.1	0.6	1.6%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F37	38	37.4	0.6	1.6%	YES	100	100	0.0	0.0%	YES	66	20	65	19	1.5%	5.0%	YES
			LKD	W22/F37	38	37.4	0.6	1.6%	YES												
			LKD	W23/F37	38	37.5	0.5	1.3%	YES												
			LKD	W24/F37	39.5	39.5	0	0.0%	YES												
			LKD	W25/F37	39.4	39.4	0	0.0%	YES												
F38	R1	RESIDENTIAL	LKD	W1/F38	33.1	31.6	1.5	4.5%	YES	100	100	0.0	0.0%	YES	73	20	71	18	2.7%	10.0%	YES
			LKD	W2/F38	33.1	31.6	1.5	4.5%	YES												
			LKD	W24/F38	39	39	0	0.0%	YES												
			LKD	W25/F38	39.1	39.1	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F38	33.2	31.6	1.6	4.8%	YES	99.8	99.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F38	33.2	31.6	1.6	4.8%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F38	33.2	31.5	1.7	5.1%	YES	96.8	96.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F38	33.1	31.5	1.6	4.8%	YES	93.5	93.5	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F38 / INC (2)	33.3	31.7	1.6	4.8%	YES	93.7	93.7	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F38 / INC (2)	33.3	31.7	1.6	4.8%	YES	91.9	91.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F38 / INC (2)	33.5	31.8	1.7	5.1%	YES	99.1	99.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F38 / INC (2)	33.6	31.8	1.8	5.4%	YES	100	99.8	0.1	0.2%	YES	90	21	89	20	1.1%	4.8%	YES
			LKD	W11/F38 / INC (2)	33.7	31.8	1.9	5.6%	YES												
			LKD	W12/F38	38.1	37.8	0.3	0.8%	YES												
			LKD	W13/F38	38	37.8	0.2	0.5%	YES												
			LKD	W14/F38	38	37.7	0.3	0.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F38	37.9	37.6	0.3	0.8%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F38	37.7	37.5	0.2	0.5%	YES	97.2	97.2	0.0	0.0%	YES	63	19	62	18	1.6%	5.3%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F38	37.6	37	0.6	1.6%	YES	94.4	94.4	0.0	0.0%	YES	64	20	63	19	1.6%	5.0%	YES
DEANSGATE WEST TOWER (CONTINUED)																					
	R12	RESIDENTIAL	BEDROOM	W18/F38	37.9	37.3	0.6	1.6%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F38	38.1	37.5	0.6	1.6%	YES	100	100	0.0	0.0%	YES	66	20	65	19	1.5%	5.0%	YES
			LKD	W20/F38	38.1	37.6	0.5	1.3%	YES												
			LKD	W21/F38	38.1	37.7	0.4	1.0%	YES												
			LKD	W22/F38	39.5	39.5	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W23/F38	39.4	39.4	0	0.0%	YES												
F39	R1	RESIDENTIAL	LKD	W1/F39	33.5	32.1	1.4	4.2%	YES	100	100	0.0	0.0%	YES	74	20	72	18	2.7%	10.0%	YES
			LKD	W2/F39	33.5	32.1	1.4	4.2%	YES												
			LKD	W26/F39	39.1	39.1	0	0.0%	YES												
			LKD	W27/F39	39.1	39.1	0	0.0%	YES												
			LKD	W28/F39	39.1	39.1	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F39	33.6	32.1	1.5	4.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F39	33.5	32	1.5	4.5%	YES	94	94	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F39	33.4	31.8	1.6	4.8%	YES	93.3	93.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F39 / INC (2)	33.6	32.1	1.5	4.5%	YES	93.9	93.8	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F39 / INC (2)	33.7	32.2	1.5	4.5%	YES	94.9	94.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F39 / INC (2)	33.8	32.2	1.6	4.7%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F39 / INC (2)	33.8	32.2	1.6	4.7%	YES												
	R8	RESIDENTIAL	LKD	W10/F39 / INC (2)	33.9	32.2	1.7	5.0%	YES	100	99.9	0.0	0.1%	YES	91	22	90	21	1.1%	4.5%	YES
			LKD	W11/F39 / INC (2)	34	32.3	1.7	5.0%	YES												
			LKD	W12/F39	38.2	37.9	0.3	0.8%	YES												
			LKD	W13/F39	38.1	37.9	0.2	0.5%	YES												
			LKD	W14/F39	38.1	37.8	0.3	0.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F39 / INC (2)	38	37.8	0.2	0.5%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F39 / INC (2)	37.9	37.7	0.2	0.5%	YES	97.6	97.6	0.0	0.0%	YES	64	20	63	19	1.6%	5.0%	YES
			LKD	W17/F39 / INC (2)	37.8	37.6	0.2	0.5%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F39	37.6	37.1	0.5	1.3%	YES	97.6	97.6	0.0	0.0%	YES	65	20	64	19	1.5%	5.0%	YES
			LKD	W19/F39	37.8	37.2	0.6	1.6%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F39	38	37.4	0.6	1.6%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F39	38.2	37.7	0.5	1.3%	YES	100	100	0.0	0.0%	YES	67	20	66	19	1.5%	5.0%	YES
			LKD	W22/F39	38.2	37.7	0.5	1.3%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W23/F39	38.2	37.8	0.4	1.0%	YES												
			LKD	W24/F39	39.5	39.5	0	0.0%	YES												
			LKD	W25/F39	39.4	39.4	0	0.0%	YES												
F40	R1	RESIDENTIAL	LKD	W1/F40	33.9	32.5	1.4	4.1%	YES	100	100	0.0	0.0%	YES	74	20	73	19	1.4%	5.0%	YES
			LKD	W2/F40	33.9	32.5	1.4	4.1%	YES												
			LKD	W24/F40	39.1	39.1	0	0.0%	YES												
			LKD	W25/F40	39.2	39.2	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F40	34	32.5	1.5	4.4%	YES	99.8	99.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			BEDROOM	W4/F40	34	32.5	1.5	4.4%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F40	33.9	32.4	1.5	4.4%	YES	96.5	96.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F40	33.9	32.3	1.6	4.7%	YES	93.6	93.5	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F40 / INC (2)	34	32.5	1.5	4.4%	YES	93.8	93.7	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F40 / INC (2)	34.1	32.5	1.6	4.7%	YES	91.9	91.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F40 / INC (2)	34.2	32.6	1.6	4.7%	YES	99.1	99.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F40 / INC (2)	34.3	32.6	1.7	5.0%	YES	100	100	0.0	0.0%	YES	91	22	90	21	1.1%	4.5%	YES
			LKD	W11/F40 / INC (2)	34.4	32.7	1.7	4.9%	YES												
			LKD	W12/F40	38.3	38	0.3	0.8%	YES												
			LKD	W13/F40	38.3	38	0.3	0.8%	YES												
			LKD	W14/F40	38.2	38	0.2	0.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F40	38.1	37.9	0.2	0.5%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F40	37.9	37.7	0.2	0.5%	YES	97.2	97.2	0.0	0.0%	YES	64	20	63	19	1.6%	5.0%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F40	37.8	37.3	0.5	1.3%	YES	94.6	94.6	0.0	0.0%	YES	65	21	64	20	1.5%	4.8%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F40	38.1	37.6	0.5	1.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F40	38.3	37.8	0.5	1.3%	YES	100	100	0.0	0.0%	YES	68	21	67	20	1.5%	4.8%	YES
			LKD	W20/F40	38.3	37.9	0.4	1.0%	YES												
			LKD	W21/F40	38.4	37.9	0.5	1.3%	YES												
			LKD	W22/F40	39.5	39.5	0	0.0%	YES												
			LKD	W23/F40	39.5	39.5	0	0.0%	YES												
F41	R1	RESIDENTIAL	LKD	W1/F41	34.2	32.9	1.3	3.8%	YES	100	100	0.0	0.0%	YES	74	20	74	20	0.0%	0.0%	YES
			LKD	W2/F41	34.3	32.9	1.4	4.1%	YES												
			LKD	W26/F41	39.1	39.1	0	0.0%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W27/F41	39.2	39.2	0	0.0%	YES												
			LKD	W28/F41	39.2	39.2	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F41	34.3	32.9	1.4	4.1%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F41	34.2	32.8	1.4	4.1%	YES	94	94	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F41	34.1	32.6	1.5	4.4%	YES	93.3	93.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F41 / INC (2)	34.3	32.8	1.5	4.4%	YES	94.7	94.7	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F41 / INC (2)	34.4	33	1.4	4.1%	YES	94.9	94.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F41 / INC (2)	34.5	33	1.5	4.3%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F41 / INC (2)	34.5	33	1.5	4.3%	YES												
	R8	RESIDENTIAL	LKD	W10/F41 / INC (2)	34.6	33.1	1.5	4.3%	YES	100	100	0.0	0.0%	YES	92	23	91	22	1.1%	4.3%	YES
			LKD	W11/F41 / INC (2)	34.7	33.1	1.6	4.6%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W12/F41	38.4	38.2	0.2	0.5%	YES												
			LKD	W13/F41	38.4	38.2	0.2	0.5%	YES												
			LKD	W14/F41	38.3	38.1	0.2	0.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F41 / INC (2)	38.2	38	0.2	0.5%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F41 / INC (2)	38.1	37.9	0.2	0.5%	YES	97.6	97.6	0.0	0.0%	YES	64	20	63	19	1.6%	5.0%	YES
			LKD	W17/F41 / INC (2)	38	37.8	0.2	0.5%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F41	37.8	37.4	0.4	1.1%	YES	97.6	97.6	0.0	0.0%	YES	66	21	65	20	1.5%	4.8%	YES
			LKD	W19/F41	38	37.5	0.5	1.3%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F41	38.2	37.7	0.5	1.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F41	38.4	38	0.4	1.0%	YES	100	100	0.0	0.0%	YES	69	21	68	20	1.4%	4.8%	YES
			LKD	W22/F41	38.4	38	0.4	1.0%	YES												
			LKD	W23/F41	38.5	38.1	0.4	1.0%	YES												
			LKD	W24/F41	39.5	39.5	0	0.0%	YES												
			LKD	W25/F41	39.5	39.5	0	0.0%	YES												
F42	R1	RESIDENTIAL	LKD	W1/F42	34.5	33.3	1.2	3.5%	YES	100	100	0.0	0.0%	YES	75	21	75	21	0.0%	0.0%	YES
			LKD	W2/F42	34.5	33.3	1.2	3.5%	YES												
			LKD	W24/F42	39.2	39.2	0	0.0%	YES												
			LKD	W25/F42	39.2	39.2	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F42	34.6	33.3	1.3	3.8%	YES	99.8	99.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F42	34.6	33.3	1.3	3.8%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W5/F42	34.5	33.2	1.3	3.8%	YES	96.5	96.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F42	34.4	33.1	1.3	3.8%	YES	93.6	93.5	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F42 / INC (2)	34.6	33.3	1.3	3.8%	YES	93.8	93.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F42 / INC (2)	34.6	33.3	1.3	3.8%	YES	92	92	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F42 / INC (2)	34.8	33.5	1.3	3.7%	YES	99.1	99.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F42 / INC (2)	34.8	33.5	1.3	3.7%	YES	100	100	0.0	0.0%	YES	94	24	93	23	1.1%	4.2%	YES
			LKD	W11/F42 / INC (2)	34.9	33.5	1.4	4.0%	YES												
			LKD	W12/F42	38.5	38.3	0.2	0.5%	YES												
			LKD	W13/F42	38.5	38.3	0.2	0.5%	YES												
			LKD	W14/F42	38.4	38.3	0.1	0.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F42	38.3	38.1	0.2	0.5%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F42	38.1	38	0.1	0.3%	YES	97.2	97.2	0.0	0.0%	YES	64	20	63	19	1.6%	5.0%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F42	38	37.6	0.4	1.1%	YES	94.7	94.7	0.0	0.0%	YES	65	21	65	21	0.0%	0.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F42	38.3	37.9	0.4	1.0%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R13	RESIDENTIAL	LKD	W19/F42	38.5	38.2	0.3	0.8%	YES	100	100	0.0	0.0%	YES	71	22	71	22	0.0%	0.0%	YES
			LKD	W20/F42	38.5	38.2	0.3	0.8%	YES												
			LKD	W21/F42	38.6	38.3	0.3	0.8%	YES												
			LKD	W22/F42	39.5	39.5	0	0.0%	YES												
			LKD	W23/F42	39.5	39.5	0	0.0%	YES												
F43	R1	RESIDENTIAL	LKD	W1/F43	34.8	33.8	1	2.9%	YES	100	100	0.0	0.0%	YES	77	23	77	23	0.0%	0.0%	YES
			LKD	W2/F43	34.8	33.8	1	2.9%	YES												
			LKD	W26/F43	39.2	39.2	0	0.0%	YES												
			LKD	W27/F43	39.3	39.3	0	0.0%	YES												
			LKD	W28/F43	39.3	39.3	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F43	34.9	33.8	1.1	3.2%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W4/F43	34.8	33.6	1.2	3.4%	YES	94	94	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F43	34.6	33.4	1.2	3.5%	YES	93.3	93.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W6/F43 / INC (2)	34.8	33.6	1.2	3.4%	YES	94.7	94.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W7/F43 / INC (2)	34.9	33.8	1.1	3.2%	YES	94.9	94.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F43 / INC (2)	35	33.8	1.2	3.4%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F43 / INC (2)	35	33.8	1.2	3.4%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
	R8	RESIDENTIAL	LKD	W10/F43 / INC (2)	35.1	33.9	1.2	3.4%	YES	100	100	0.0	0.0%	YES	94	24	94	24	0.0%	0.0%	YES
			LKD	W11/F43 / INC (2)	35.1	33.9	1.2	3.4%	YES												
			LKD	W12/F43	38.7	38.5	0.2	0.5%	YES												
			LKD	W13/F43	38.6	38.5	0.1	0.3%	YES												
			LKD	W14/F43	38.6	38.4	0.2	0.5%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F43 / INC (2)	38.5	38.3	0.2	0.5%	YES	98.2	98.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F43 / INC (2)	38.3	38.2	0.1	0.3%	YES	97.7	97.7	0.0	0.0%	YES	64	20	64	20	0.0%	0.0%	YES
			LKD	W17/F43 / INC (2)	38.2	38.1	0.1	0.3%	YES												
	R11 (3)	RESIDENTIAL	LKD	W18/F43	38	37.7	0.3	0.8%	YES	97.6	97.6	0.0	0.0%	YES	66	21	66	21	0.0%	0.0%	YES
			LKD	W19/F43	38.2	37.8	0.4	1.0%	YES												
	R12	RESIDENTIAL	BEDROOM	W20/F43	38.4	38.1	0.3	0.8%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W21/F43	38.6	38.3	0.3	0.8%	YES	100	100	0.0	0.0%	YES	71	22	71	22	0.0%	0.0%	YES
			LKD	W22/F43	38.7	38.4	0.3	0.8%	YES												
			LKD	W23/F43	38.7	38.4	0.3	0.8%	YES												
			LKD	W24/F43	39.5	39.5	0	0.0%	YES												
			LKD	W25/F43	39.5	39.5	0	0.0%	YES												
F44	R1	RESIDENTIAL	LKD	W1/F44	35.1	34.2	0.9	2.6%	YES	100	100	0.0	0.0%	YES	77	23	77	23	0.0%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W2/F44	35.1	34.2	0.9	2.6%	YES												
			LKD	W24/F44	39.3	39.3	0	0.0%	YES												
			LKD	W25/F44	39.3	39.3	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F44	35.1	34.2	0.9	2.6%	YES	99.8	99.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F44	35.2	34.2	1	2.8%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F44	35.1	34.1	1	2.8%	YES	96.5	96.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F44	35	33.9	1.1	3.1%	YES	93.6	93.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F44 / INC (2)	35.1	34.1	1	2.8%	YES	93.8	93.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W8/F44 / INC (2)	35.2	34.2	1	2.8%	YES	92	92	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W9/F44 / INC (2)	35.3	34.3	1	2.8%	YES	99.1	99.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W10/F44 / INC (2)	35.3	34.3	1	2.8%	YES	100	100	0.0	0.0%	YES	94	24	94	24	0.0%	0.0%	YES
			LKD	W11/F44 / INC (2)	35.4	34.3	1.1	3.1%	YES												
			LKD	W12/F44	38.8	38.6	0.2	0.5%	YES												
			LKD	W13/F44	38.8	38.6	0.2	0.5%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W14/F44	38.7	38.6	0.1	0.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W15/F44	38.6	38.4	0.2	0.5%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W16/F44	38.4	38.2	0.2	0.5%	YES	97.3	97.3	0.0	0.0%	YES	64	20	64	20	0.0%	0.0%	YES
	R11 (3)	RESIDENTIAL	LKD	W17/F44	38.2	37.9	0.3	0.8%	YES	94.8	94.8	0.0	0.0%	YES	66	21	66	21	0.0%	0.0%	YES
	R12	RESIDENTIAL	BEDROOM	W18/F44	38.6	38.3	0.3	0.8%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	LKD	W19/F44	38.8	38.5	0.3	0.8%	YES	100	100	0.0	0.0%	YES	71	22	71	22	0.0%	0.0%	YES
			LKD	W20/F44	38.8	38.5	0.3	0.8%	YES												
			LKD	W21/F44	38.8	38.6	0.2	0.5%	YES												
			LKD	W22/F44	39.5	39.5	0	0.0%	YES												
			LKD	W23/F44	39.4	39.4	0	0.0%	YES												
F45	R1	RESIDENTIAL	LKD	W1/F45	35.3	34.6	0.7	2.0%	YES	100	99.9	0.1	0.1%	YES	80	25	80	25	0.0%	0.0%	YES
			LKD	W2/F45	35.4	34.6	0.8	2.3%	YES												
			LKD	W3/F45	35.5	34.6	0.9	2.5%	YES												
			LKD	W4/F45	35.4	34.5	0.9	2.5%	YES												
			LKD	W29/F45	38.6	38.6	0	0.0%	YES												
			LKD	W30/F45	39	39	0	0.0%	YES												
			LKD	W31/F45	39.2	39.2	0	0.0%	YES												
			LKD	W32/F45	39.3	39.3	0	0.0%	YES												
			LKD	W33/F45	39.4	39.4	0	0.0%	YES												
			LKD	W34/F45	39.4	39.4	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R2	RESIDENTIAL	BEDROOM	W5/F45	35.2	34.3	0.9	2.6%	YES	89	89	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W6/F45	35.3	34.5	0.8	2.3%	YES	88	87.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	LKD	W7/F45	35.4	34.6	0.8	2.3%	YES	100	100	0.0	0.0%	YES	95	25	95	25	0.0%	0.0%	YES
			LKD	W8/F45	35.5	34.7	0.8	2.3%	YES												
			LKD	W9/F45	35.6	34.7	0.9	2.5%	YES												
			LKD	W10/F45	35.6	34.7	0.9	2.5%	YES												
			LKD	W11/F45	35.6	34.7	0.9	2.5%	YES												
			LKD	W12/F45	38.9	38.8	0.1	0.3%	YES												
			LKD	W13/F45	38.9	38.8	0.1	0.3%	YES												
			LKD	W14/F45	38.9	38.7	0.2	0.5%	YES												
			LKD	W15/F45	38.7	38.6	0.1	0.3%	YES												
DEANSGATE WEST TOWER (CONTINUED)																					
			LKD	W16/F45	38.5	38.4	0.1	0.3%	YES												
			LKD	W17/F45	38.3	38.2	0.1	0.3%	YES												
	R5	RESIDENTIAL	LKD	W18/F45	38.4	38.1	0.3	0.8%	YES	100	100	0.0	0.0%	YES	72	23	72	23	0.0%	0.0%	YES
			LKD	W19/F45	38.6	38.3	0.3	0.8%	YES												
			LKD	W20/F45	38.7	38.5	0.2	0.5%	YES												
			LKD	W21/F45	38.9	38.6	0.3	0.8%	YES												
			LKD	W22/F45	38.9	38.7	0.2	0.5%	YES												
			LKD	W23/F45	38.9	38.7	0.2	0.5%	YES												
			LKD	W24/F45	39.6	39.6	0	0.0%	YES												
			LKD	W25/F45	39.6	39.6	0	0.0%	YES												
			LKD	W26/F45	39.5	39.5	0	0.0%	YES												
			LKD	W27/F45	39.5	39.5	0	0.0%	YES												
			LKD	W28/F45	39.4	39.4	0	0.0%	YES												
F46	R1	RESIDENTIAL	LKD	W1/F46	35.6	34.9	0.7	2.0%	YES	88.9	88.9	0.0	0.0%	YES	77	24	77	24	0.0%	0.0%	YES
			LKD	W2/F46	35.8	35	0.8	2.2%	YES												
	R2	RESIDENTIAL	LKD	W3/F46	35.7	35	0.7	2.0%	YES	87.8	87.8	0.0	0.0%	YES	74	25	74	25	0.0%	0.0%	YES
			LKD	W4/F46	35.8	35.1	0.7	2.0%	YES												
			LKD	W5/F46	35.8	35.1	0.7	2.0%	YES												
	R3	RESIDENTIAL	LKD	W6/F46	38.9	38.8	0.1	0.3%	YES	97.9	97.9	0.0	0.0%	YES	65	21	65	21	0.0%	0.0%	YES
			LKD	W7/F46	38.8	38.7	0.1	0.3%	YES												
			LKD	W8/F46	38.5	38.4	0.1	0.3%	YES												
	R4	RESIDENTIAL	LKD	W9/F46	38.6	38.4	0.2	0.5%	YES	95.4	95.4	0.0	0.0%	YES	70	22	70	22	0.0%	0.0%	YES
			LKD	W10/F46	38.8	38.6	0.2	0.5%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W11/F46	38.9	38.7	0.2	0.5%	YES												
DEANSGATE NORTH TOWER																					
F04	R1	RESIDENTIAL	LKD	W1/F04	26.8	26.8	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	31	9	15	1	51.6%	88.9%	NO
			LKD	W2/F04	27.9	27.9	0	0.0%	YES												
			LKD	W26/F04	15.4	12	3.4	22.1%	NO												
			LKD	W27/F04	14.3	11.6	2.7	18.9%	YES												
	R2	RESIDENTIAL	LKD	W3/F04	23.6	23.1	0.5	2.1%	YES	100	99.3	0.3	0.7%	YES	38	13	21	6	44.7%	53.8%	NO
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W4/F04	22.8	22.2	0.6	2.6%	YES												
			LKD	W5/F04	12.6	6.2	6.4	50.8%	NO												
			LKD	W6/F04	13.2	6	7.2	54.5%	NO												
			LKD	W7/F04	13.8	5.9	7.9	57.2%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F04	14.6	5.6	9	61.6%	NO	63.9	51.3	1.5	19.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F04	15.1	5.5	9.6	63.6%	NO	45.9	30.6	3.8	33.3%	NO	30	10	11	4	63.3%	60.0%	NO
			LKD	W10/F04	15.5	5.4	10.1	65.2%	NO												
	R5	RESIDENTIAL	LKD	W11/F04	13.8	3.9	9.9	71.7%	NO	52.9	35.5	4.3	32.9%	NO	36	13	12	4	66.7%	69.2%	NO
			LKD	W12/F04	13.8	3.6	10.2	73.9%	NO												
	R6	RESIDENTIAL	BEDROOM	W13/F04	13.4	3.2	10.2	76.1%	NO	55.5	5.8	5.9	89.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W14/F04	12.8	3.6	9.2	71.9%	NO	100	96	1.6	4.0%	YES	44	15	25	9	43.2%	40.0%	YES
			LKD	W15/F04	12.8	3.9	8.9	69.5%	NO												
			LKD	W16/F04	13.2	4.8	8.4	63.6%	NO												
			LKD	W17/F04 / INC (2)	16	11.5	4.5	28.1%	NO												
			LKD	W18/F04 / INC (2)	15.9	11.8	4.1	25.8%	NO												
	R8	RESIDENTIAL	BEDROOM	W19/F04 / INC (2)	15.4	11.6	3.8	24.7%	NO	79.3	79	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W21/F04 / INC (2)	14.7	11.5	3.2	21.8%	NO	56.5	55.5	0.1	1.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W22/F04	15.7	11.4	4.3	27.4%	NO	52.3	50	0.3	4.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W23/F04	15.5	11.5	4	25.8%	NO	60.2	57.8	0.2	3.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W24/F04	15.4	11.7	3.7	24.0%	NO	89.9	88.2	0.2	1.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W25/F04	15.4	11.8	3.6	23.4%	NO												
F05	R1	RESIDENTIAL	LKD	W1/F05	27.2	27.2	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	31	9	15	1	51.6%	88.9%	NO
			LKD	W2/F05	28	28	0	0.0%	YES												
			LKD	W3/F05	28.5	28.5	0	0.0%	YES												
			LKD	W27/F05	15.7	12.4	3.3	21.0%	NO												
			LKD	W28/F05	15.5	12.7	2.8	18.1%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	LKD	W4/F05	24.4	24	0.4	1.6%	YES	100	99.3	0.3	0.7%	YES	38	13	21	6	44.7%	53.8%	NO
			LKD	W5/F05	23.6	23	0.6	2.5%	YES												
			LKD	W6/F05	12.7	6.2	6.5	51.2%	NO												
			LKD	W7/F05	13.2	6.1	7.1	53.8%	NO												
			LKD	W8/F05	13.8	5.9	7.9	57.2%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W9/F05	14.6	5.7	8.9	61.0%	NO	63.9	51.3	1.5	19.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F05	15.2	5.6	9.6	63.2%	NO	45.9	30.6	3.8	33.2%	NO	30	10	11	4	63.3%	60.0%	NO
			LKD	W11/F05	15.5	5.5	10	64.5%	NO												
	R5	RESIDENTIAL	LKD	W12/F05	13.8	4	9.8	71.0%	NO	52.9	35.5	4.3	32.8%	NO	36	13	12	4	66.7%	69.2%	NO
			LKD	W13/F05	13.8	3.6	10.2	73.9%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F05	13.5	3.3	10.2	75.6%	NO	55.5	6	5.9	89.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F05	12.9	3.7	9.2	71.3%	NO	100	95.9	1.6	4.1%	YES	44	15	25	9	43.2%	40.0%	YES
			LKD	W16/F05	12.9	3.9	9	69.8%	NO												
			LKD	W17/F05	13.2	4.8	8.4	63.6%	NO												
			LKD	W18/F05 / INC (2)	17.2	12.5	4.7	27.3%	NO												
			LKD	W19/F05 / INC (2)	16.4	12.2	4.2	25.6%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F05 / INC (2)	15.8	12	3.8	24.1%	NO	88.8	88.5	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F05 / INC (2)	15.5	11.9	3.6	23.2%	NO												
	R9	RESIDENTIAL	BEDROOM	W22/F05 / INC (2)	15.2	11.9	3.3	21.7%	NO	59	58.6	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F05 / INC (2)	15	12	3	20.0%	YES	56.8	56.5	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F05	16	11.8	4.2	26.2%	NO	54.2	53.2	0.1	2.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F05	15.9	11.9	4	25.2%	NO	67.9	67	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F05	15.8	12.1	3.7	23.4%	NO	88.3	88.3	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F06	R1	RESIDENTIAL	LKD	W1/F06	27.5	27.5	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	32	9	16	1	50.0%	88.9%	NO
			LKD	W2/F06	28.3	28.3	0	0.0%	YES												
			LKD	W3/F06	28.8	28.8	0	0.0%	YES												
			LKD	W27/F06	16.1	12.7	3.4	21.1%	NO												
			LKD	W28/F06	15.8	13	2.8	17.7%	YES												
	R2	RESIDENTIAL	LKD	W4/F06	25.3	24.8	0.5	2.0%	YES	100	99.3	0.3	0.7%	YES	39	13	22	6	43.6%	53.8%	NO
			LKD	W5/F06	24.3	23.8	0.5	2.1%	YES												
			LKD	W6/F06	12.7	6.3	6.4	50.4%	NO												
			LKD	W7/F06	13.3	6.1	7.2	54.1%	NO												
			LKD	W8/F06	13.8	6	7.8	56.5%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F06	14.7	5.8	8.9	60.5%	NO	63.9	51.3	1.5	19.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R4 (3)	RESIDENTIAL	LKD	W10/F06	15.2	5.6	9.6	63.2%	NO	45.8	30.6	3.8	33.2%	NO	30	10	11	4	63.3%	60.0%	NO
			LKD	W11/F06	15.6	5.5	10.1	64.7%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
	R5	RESIDENTIAL	LKD	W12/F06	13.9	4.1	9.8	70.5%	NO	52.9	35.6	4.3	32.7%	NO	37	14	12	4	67.6%	71.4%	NO
			LKD	W13/F06	13.9	3.7	10.2	73.4%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F06	13.5	3.3	10.2	75.6%	NO	55.5	6.1	5.9	88.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F06	13	3.8	9.2	70.8%	NO	100	96	1.6	4.0%	YES	44	15	25	9	43.2%	40.0%	YES
			LKD	W16/F06	12.9	4	8.9	69.0%	NO												
			LKD	W17/F06	13.3	4.9	8.4	63.2%	NO												
			LKD	W18/F06 / INC (2)	17.5	12.8	4.7	26.9%	NO												
			LKD	W19/F06 / INC (2)	16.7	12.5	4.2	25.1%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F06 / INC (2)	16.1	12.3	3.8	23.6%	NO	90.3	90	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F06 / INC (2)	15.9	12.2	3.7	23.3%	NO												
	R9	RESIDENTIAL	BEDROOM	W22/F06 / INC (2)	15.6	12.3	3.3	21.2%	NO	60.2	59.9	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F06 / INC (2)	15.4	12.3	3.1	20.1%	NO	58.9	58.6	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F06	16.4	12.1	4.3	26.2%	NO	57.1	56.2	0.1	1.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F06	16.2	12.3	3.9	24.1%	NO	71.2	70.3	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F06	16.2	12.5	3.7	22.8%	NO	89.7	89.6	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F07	R1	RESIDENTIAL	LKD	W1/F07	27.6	27.6	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	32	9	16	1	50.0%	88.9%	NO
			LKD	W2/F07	28.4	28.4	0	0.0%	YES												
			LKD	W3/F07	28.9	28.9	0	0.0%	YES												
			LKD	W27/F07	16.4	13.1	3.3	20.1%	NO												
			LKD	W28/F07	16.2	13.4	2.8	17.3%	YES												
	R2	RESIDENTIAL	LKD	W4/F07	26	25.5	0.5	1.9%	YES	100	99.3	0.3	0.7%	YES	40	13	23	6	42.5%	53.8%	NO
			LKD	W5/F07	25	24.4	0.6	2.4%	YES												
			LKD	W6/F07	12.8	6.4	6.4	50.0%	NO												
			LKD	W7/F07	13.3	6.2	7.1	53.4%	NO												
			LKD	W8/F07	13.9	6.1	7.8	56.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F07	14.7	5.9	8.8	59.9%	NO	63.9	51.4	1.5	19.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F07	15.3	5.7	9.6	62.7%	NO	45.8	30.7	3.8	33.1%	NO	30	10	11	4	63.3%	60.0%	NO
			LKD	W11/F07	15.6	5.6	10	64.1%	NO												
	R5	RESIDENTIAL	LKD	W12/F07	13.9	4.1	9.8	70.5%	NO	52.9	35.7	4.3	32.5%	NO	37	14	12	4	67.6%	71.4%	NO
			LKD	W13/F07	13.9	3.8	10.1	72.7%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F07	13.6	3.4	10.2	75.0%	NO	55.5	6.6	5.8	88.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE NORTH TOWER (CONTINUED)																					

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R7	RESIDENTIAL	LKD	W15/F07	13	3.8	9.2	70.8%	NO	100	96.1	1.5	3.9%	YES	45	16	26	10	42.2%	37.5%	YES
			LKD	W16/F07	13	4.1	8.9	68.5%	NO												
			LKD	W17/F07	13.3	5	8.3	62.4%	NO												
			LKD	W18/F07 / INC (2)	17.9	13.1	4.8	26.8%	NO												
			LKD	W19/F07 / INC (2)	17.1	12.9	4.2	24.6%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F07 / INC (2)	16.5	12.7	3.8	23.0%	NO	92.3	92	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F07 / INC (2)	16.2	12.6	3.6	22.2%	NO												
	R9	RESIDENTIAL	BEDROOM	W22/F07 / INC (2)	16	12.6	3.4	21.3%	NO	60.6	60.2	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F07 / INC (2)	15.8	12.7	3.1	19.6%	YES	61.8	61.5	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F07	16.7	12.5	4.2	25.1%	NO	61.5	60.5	0.1	1.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F07	16.6	12.7	3.9	23.5%	NO	72.6	71.7	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F07	16.5	12.9	3.6	21.8%	NO	90	90	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F08	R1	RESIDENTIAL	LKD	W1/F08	27.7	27.7	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	33	9	18	1	45.5%	88.9%	NO
			LKD	W2/F08	28.5	28.5	0	0.0%	YES												
			LKD	W3/F08	29	29	0	0.0%	YES												
			LKD	W27/F08	16.8	13.5	3.3	19.6%	YES												
			LKD	W28/F08	16.5	13.7	2.8	17.0%	YES												
	R2	RESIDENTIAL	LKD	W4/F08	26.5	26	0.5	1.9%	YES	100	99.3	0.3	0.7%	YES	40	13	23	6	42.5%	53.8%	NO
			LKD	W5/F08	25.4	24.9	0.5	2.0%	YES												
			LKD	W6/F08	12.8	6.4	6.4	50.0%	NO												
			LKD	W7/F08	13.4	6.3	7.1	53.0%	NO												
			LKD	W8/F08	13.9	6.1	7.8	56.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F08	14.8	5.9	8.9	60.1%	NO	64	51.5	1.5	19.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F08	15.3	5.8	9.5	62.1%	NO	45.9	30.7	3.8	33.0%	NO	30	10	11	4	63.3%	60.0%	NO
			LKD	W11/F08	15.7	5.7	10	63.7%	NO												
	R5	RESIDENTIAL	LKD	W12/F08	13.9	4.2	9.7	69.8%	NO	52.9	35.9	4.2	32.1%	NO	37	14	12	4	67.6%	71.4%	NO
			LKD	W13/F08	14	3.8	10.2	72.9%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F08	13.7	3.5	10.2	74.5%	NO	55.5	7	5.8	87.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F08	13.1	3.9	9.2	70.2%	NO	100	96.2	1.5	3.8%	YES	45	16	26	10	42.2%	37.5%	YES
			LKD	W16/F08	13.1	4.1	9	68.7%	NO												
			LKD	W17/F08	13.4	5	8.4	62.7%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W18/F08 / INC (2)	18.2	13.5	4.7	25.8%	NO												
			LKD	W19/F08 / INC (2)	17.4	13.2	4.2	24.1%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F08 / INC (2)	16.8	13	3.8	22.6%	NO	93.1	92.8	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			BEDROOM	W21/F08 / INC (2)	16.6	13	3.6	21.7%	NO												
	R9	RESIDENTIAL	BEDROOM	W22/F08 / INC (2)	16.4	13.1	3.3	20.1%	NO	60.8	60.4	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F08 / INC (2)	16.2	13.1	3.1	19.1%	YES	65.5	65.2	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F08	17.1	12.9	4.2	24.6%	NO	66.5	65.5	0.1	1.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F08	17	13.1	3.9	22.9%	NO	73.2	72.3	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F08	16.9	13.3	3.6	21.3%	NO	90.3	90.3	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F09	R1	RESIDENTIAL	LKD	W1/F09	27.8	27.8	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	35	9	21	1	40.0%	88.9%	NO
			LKD	W2/F09	28.6	28.6	0	0.0%	YES												
			LKD	W3/F09	29	29	0	0.0%	YES												
			LKD	W27/F09	17.2	13.9	3.3	19.2%	YES												
			LKD	W28/F09	16.9	14.2	2.7	16.0%	YES												
	R2	RESIDENTIAL	LKD	W4/F09	26.6	26.2	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	41	13	24	6	41.5%	53.8%	NO
			LKD	W5/F09	25.6	25	0.6	2.3%	YES												
			LKD	W6/F09	12.8	6.5	6.3	49.2%	NO												
			LKD	W7/F09	13.4	6.4	7	52.2%	NO												
			LKD	W8/F09	14	6.2	7.8	55.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F09	14.8	6	8.8	59.5%	NO	64	51.6	1.5	19.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F09	15.4	5.9	9.5	61.7%	NO	45.9	30.8	3.8	32.9%	NO	30	10	11	4	63.3%	60.0%	NO
			LKD	W11/F09	15.7	5.8	9.9	63.1%	NO												
	R5	RESIDENTIAL	LKD	W12/F09	14	4.3	9.7	69.3%	NO	52.9	35.9	4.2	32.1%	NO	37	14	12	4	67.6%	71.4%	NO
			LKD	W13/F09	14	3.9	10.1	72.1%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F09	13.7	3.6	10.1	73.7%	NO	55.4	7.2	5.7	87.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F09	13.2	4	9.2	69.7%	NO	100	96.3	1.5	3.7%	YES	45	16	26	10	42.2%	37.5%	YES
			LKD	W16/F09	13.1	4.2	8.9	67.9%	NO												
			LKD	W17/F09	13.4	5.1	8.3	61.9%	NO												
			LKD	W18/F09 / INC (2)	18.5	13.9	4.6	24.9%	NO												
			LKD	W19/F09 / INC (2)	17.8	13.6	4.2	23.6%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F09 / INC (2)	17.2	13.5	3.7	21.5%	NO	93.2	92.9	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE NORTH TOWER (CONTINUED)																					
			BEDROOM	W21/F09 / INC (2)	17	13.4	3.6	21.2%	NO												
	R9	RESIDENTIAL	BEDROOM	W22/F09 / INC (2)	16.8	13.5	3.3	19.6%	YES	61.1	60.7	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F09 / INC (2)	16.6	13.6	3	18.1%	YES	67.8	67.5	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F09	17.6	13.4	4.2	23.9%	NO	71	70.1	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F09	17.5	13.6	3.9	22.3%	NO	74	73.1	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F09	17.3	13.7	3.6	20.8%	NO	90.5	90.5	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F10	R1	RESIDENTIAL	LKD	W1/F10	27.8	27.8	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	35	9	21	1	40.0%	88.9%	NO
			LKD	W2/F10	28.9	28.9	0	0.0%	YES												
			LKD	W24/F10	17.6	14.4	3.2	18.2%	YES												
			LKD	W25/F10	17.4	14.6	2.8	16.1%	YES												
	R2	RESIDENTIAL	LKD	W3/F10	26.7	26.3	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	42	13	25	6	40.5%	53.8%	YES
			LKD	W4/F10	25.7	25.1	0.6	2.3%	YES												
			LKD	W5/F10	12.9	6.6	6.3	48.8%	NO												
			LKD	W6/F10	13.4	6.4	7	52.2%	NO												
			LKD	W7/F10	14	6.3	7.7	55.0%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F10	14.9	6.1	8.8	59.1%	NO	64	51.6	1.5	19.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F10	15.7	5.9	9.8	62.4%	NO	32.2	19	3.3	40.9%	NO	30	10	11	4	63.3%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F10	14.1	4.2	9.9	70.2%	NO	34.5	25.5	2.2	26.0%	NO	34	13	11	3	67.6%	76.9%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F10	13.6	3.7	9.9	72.8%	NO	41.7	8.2	4.0	80.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F10	13.2	4.1	9.1	68.9%	NO	100	96.3	1.5	3.7%	YES	45	16	26	10	42.2%	37.5%	YES
			LKD	W13/F10	13.2	4.3	8.9	67.4%	NO												
			LKD	W14/F10	13.5	5.1	8.4	62.2%	NO												
			LKD	W15/F10 / INC (2)	18.9	14.3	4.6	24.3%	NO												
			LKD	W16/F10 / INC (2)	18.2	14.1	4.1	22.5%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F10 / INC (2)	17.6	13.9	3.7	21.0%	NO	82.4	82.2	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F10 / INC (2)	17.4	14	3.4	19.5%	YES	62.4	60.2	0.2	3.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F10 / INC (2)	17.1	14	3.1	18.1%	YES	68.8	67.9	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F10	18.1	13.8	4.3	23.8%	NO	68.6	66.3	0.3	3.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F10	17.9	14	3.9	21.8%	NO	70.5	68.5	0.2	2.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F10	17.8	14.2	3.6	20.2%	NO	99	98.3	0.1	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F10	17.8	14.2	3.6	20.2%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
F11	R1	RESIDENTIAL	LKD	W1/F11	27.9	27.9	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	35	9	21	1	40.0%	88.9%	NO
			LKD	W2/F11	28.7	28.7	0	0.0%	YES												
			LKD	W3/F11	29.1	29.1	0	0.0%	YES												
			LKD	W27/F11	18.1	14.9	3.2	17.7%	YES												
			LKD	W28/F11	17.9	15.1	2.8	15.6%	YES												
	R2	RESIDENTIAL	LKD	W4/F11	26.8	26.4	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	42	13	25	6	40.5%	53.8%	YES
			LKD	W5/F11	25.8	25.2	0.6	2.3%	YES												
			LKD	W6/F11	12.9	6.7	6.2	48.1%	NO												
			LKD	W7/F11	13.5	6.5	7	51.9%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W8/F11	14.1	6.4	7.7	54.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F11	14.9	6.2	8.7	58.4%	NO	64	51.6	1.5	19.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F11	15.4	6.1	9.3	60.4%	NO	45.6	30.6	3.8	32.8%	NO	31	10	12	4	61.3%	60.0%	NO
			LKD	W11/F11	15.8	6	9.8	62.0%	NO												
	R5	RESIDENTIAL	LKD	W12/F11 / INC (2)	14.1	4.4	9.7	68.8%	NO	53.5	37.3	4.1	30.3%	NO	37	14	13	4	64.9%	71.4%	NO
			LKD	W13/F11 / INC (2)	14.1	4	10.1	71.6%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F11 / INC (2)	13.7	3.7	10	73.0%	NO	54.7	7.2	5.7	86.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F11	13.3	4.1	9.2	69.2%	NO	100	96.3	1.5	3.7%	YES	45	16	26	10	42.2%	37.5%	YES
			LKD	W16/F11	13.3	4.4	8.9	66.9%	NO												
			LKD	W17/F11	13.5	5.2	8.3	61.5%	NO												
			LKD	W18/F11 / INC (2)	19.4	14.7	4.7	24.2%	NO												
			LKD	W19/F11 / INC (2)	18.7	14.5	4.2	22.5%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F11 / INC (2)	18.1	14.4	3.7	20.4%	NO	93.5	93.2	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F11 / INC (2)	18	14.4	3.6	20.0%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F11 / INC (2)	17.8	14.5	3.3	18.5%	YES	62.4	62	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F11 / INC (2)	17.6	14.6	3	17.0%	YES	70	69.7	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F11	18.5	14.4	4.1	22.2%	NO	75.2	74.2	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F11	18.5	14.6	3.9	21.1%	NO	74.7	73.9	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F11	18.3	14.7	3.6	19.7%	YES	90.9	90.8	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F12	R1	RESIDENTIAL	LKD	W1/F12	27.9	27.9	0	0.0%	YES	100	100	0.0	0.0%	YES	36	9	23	1	36.1%	88.9%	NO
			LKD	W2/F12	29	29	0	0.0%	YES												
			LKD	W24/F12	18.6	15.4	3.2	17.2%	YES												
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W25/F12	18.4	15.6	2.8	15.2%	YES												
	R2	RESIDENTIAL	LKD	W3/F12	26.9	26.5	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	42	13	25	6	40.5%	53.8%	YES
			LKD	W4/F12	25.9	25.3	0.6	2.3%	YES												
			LKD	W5/F12	13	6.8	6.2	47.7%	NO												
			LKD	W6/F12	13.5	6.6	6.9	51.1%	NO												
			LKD	W7/F12	14.1	6.5	7.6	53.9%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F12	15	6.3	8.7	58.0%	NO	64	51.6	1.5	19.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F12	15.8	6.1	9.7	61.4%	NO	32.3	19.1	3.3	40.8%	NO	31	10	13	4	58.1%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F12	14.2	4.4	9.8	69.0%	NO	34.4	25.5	2.2	25.9%	NO	35	13	12	3	65.7%	76.9%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F12	13.7	3.8	9.9	72.3%	NO	41.6	8.9	3.9	78.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F12	13.3	4.2	9.1	68.4%	NO	100	96.3	1.5	3.7%	YES	45	16	26	10	42.2%	37.5%	YES
			LKD	W13/F12	13.3	4.4	8.9	66.9%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W14/F12	13.6	5.3	8.3	61.0%	NO												
			LKD	W15/F12 / INC (2)	19.9	15.2	4.7	23.6%	NO												
			LKD	W16/F12 / INC (2)	19.2	15.1	4.1	21.4%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F12 / INC (2)	18.6	14.9	3.7	19.9%	YES	82.6	82.4	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F12 / INC (2)	18.5	15.1	3.4	18.4%	YES	63.2	61	0.2	3.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F12 / INC (2)	18.2	15.1	3.1	17.0%	YES	70.4	69.5	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F12	19.1	14.9	4.2	22.0%	NO	69.8	67.5	0.3	3.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F12	19	15.1	3.9	20.5%	NO	71.7	69.8	0.2	2.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F12	18.9	15.3	3.6	19.0%	YES	99.2	99	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F12	18.8	15.3	3.5	18.6%	YES												
F13	R1	RESIDENTIAL	LKD	W1/F13	28	28	0	0.0%	YES	100	100	0.0	0.0%	YES	37	9	24	1	35.1%	88.9%	NO
			LKD	W2/F13	28.8	28.8	0	0.0%	YES												
			LKD	W3/F13	29.3	29.3	0	0.0%	YES												
			LKD	W27/F13	19.2	16	3.2	16.7%	YES												
			LKD	W28/F13	18.9	16.2	2.7	14.3%	YES												
	R2	RESIDENTIAL	LKD	W4/F13	27	26.6	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	43	13	26	6	39.5%	53.8%	YES
			LKD	W5/F13	26	25.4	0.6	2.3%	YES												
			LKD	W6/F13	13	6.9	6.1	46.9%	NO												
			LKD	W7/F13	13.6	6.7	6.9	50.7%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W8/F13	14.2	6.6	7.6	53.5%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F13	15	6.4	8.6	57.3%	NO	64	51.7	1.5	19.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F13	15.5	6.3	9.2	59.4%	NO	45.6	30.6	3.7	32.8%	NO	31	10	13	4	58.1%	60.0%	NO
			LKD	W11/F13	15.9	6.2	9.7	61.0%	NO												
	R5	RESIDENTIAL	LKD	W12/F13 / INC (2)	14.2	4.6	9.6	67.6%	NO	53.5	37.3	4.1	30.3%	NO	38	14	14	4	63.2%	71.4%	NO
			LKD	W13/F13 / INC (2)	14.1	4.2	9.9	70.2%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F13 / INC (2)	13.8	3.9	9.9	71.7%	NO	54.8	8.3	5.5	84.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F13	13.4	4.3	9.1	67.9%	NO	100	96.3	1.5	3.7%	YES	45	16	26	10	42.2%	37.5%	YES
			LKD	W16/F13	13.4	4.5	8.9	66.4%	NO												
			LKD	W17/F13	13.7	5.4	8.3	60.6%	NO												
			LKD	W18/F13 / INC (2)	20.4	15.8	4.6	22.5%	NO												
			LKD	W19/F13 / INC (2)	19.8	15.7	4.1	20.7%	NO												
	R8	RESIDENTIAL	BEDROOM	W20/F13 / INC (2)	19.2	15.5	3.7	19.3%	YES	94.2	94.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F13 / INC (2)	19.1	15.5	3.6	18.8%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F13 / INC (2)	18.9	15.7	3.2	16.9%	YES	63.4	63.1	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R10	RESIDENTIAL	BEDROOM	W23/F13 / INC (2)	18.7	15.8	2.9	15.5%	YES	72.5	72.2	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F13	19.7	15.6	4.1	20.8%	NO	77.6	76.6	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F13	19.6	15.8	3.8	19.4%	YES	76.2	75.4	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F13	19.4	15.9	3.5	18.0%	YES	91.1	91	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F14	R1	RESIDENTIAL	LKD	W1/F14	28.1	28.1	0	0.0%	YES	100	100	0.0	0.0%	YES	37	9	24	1	35.1%	88.9%	NO
			LKD	W2/F14	29.2	29.2	0	0.0%	YES												
			LKD	W24/F14	19.8	16.7	3.1	15.7%	YES												
			LKD	W25/F14	19.6	16.8	2.8	14.3%	YES												
	R2	RESIDENTIAL	LKD	W3/F14	27.1	26.7	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	43	13	26	6	39.5%	53.8%	YES
			LKD	W4/F14	26	25.5	0.5	1.9%	YES												
			LKD	W5/F14	13.1	7	6.1	46.6%	NO												
			LKD	W6/F14	13.6	6.9	6.7	49.3%	NO												
			LKD	W7/F14	14.2	6.8	7.4	52.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F14	15.1	6.6	8.5	56.3%	NO	64	51.8	1.5	19.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F14	15.9	6.3	9.6	60.4%	NO	32.4	19.3	3.3	40.6%	NO	31	10	13	4	58.1%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F14	14.3	4.6	9.7	67.8%	NO	34.5	25.5	2.3	26.2%	NO	35	13	12	3	65.7%	76.9%	NO
DEANSGATE NORTH TOWER (CONTINUED)																					
	R6	RESIDENTIAL	BEDROOM	W11/F14	13.8	4	9.8	71.0%	NO	41.6	9.5	3.8	77.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F14	13.4	4.4	9	67.2%	NO	100	96.5	1.4	3.5%	YES	46	16	27	10	41.3%	37.5%	YES
			LKD	W13/F14	13.4	4.6	8.8	65.7%	NO												
			LKD	W14/F14	13.7	5.5	8.2	59.9%	NO												
			LKD	W15/F14 / INC (2)	21	16.4	4.6	21.9%	NO												
			LKD	W16/F14 / INC (2)	20.4	16.3	4.1	20.1%	NO												
	R8	RESIDENTIAL	BEDROOM	W17/F14 / INC (2)	19.8	16.2	3.6	18.2%	YES	82.7	82.5	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F14 / INC (2)	19.7	16.5	3.2	16.2%	YES	64.7	62.5	0.2	3.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F14 / INC (2)	19.4	16.4	3	15.5%	YES	72.3	71.4	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F14	20.4	16.3	4.1	20.1%	NO	71.2	69	0.2	3.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F14	20.3	16.5	3.8	18.7%	YES	73.6	71.7	0.2	2.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F14	20.1	16.6	3.5	17.4%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F14	20.1	16.6	3.5	17.4%	YES												
F15	R1	RESIDENTIAL	LKD	W1/F15	28.2	28.2	0	0.0%	YES	100	100	0.0	0.0%	YES	38	9	25	1	34.2%	88.9%	NO
			LKD	W2/F15	28.9	28.9	0	0.0%	YES												
			LKD	W3/F15	29.4	29.4	0	0.0%	YES												
			LKD	W27/F15	20.5	17.4	3.1	15.1%	YES												
			LKD	W28/F15	20.2	17.5	2.7	13.4%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	LKD	W4/F15	27.2	26.8	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	44	13	27	6	38.6%	53.8%	YES
			LKD	W5/F15	26.1	25.5	0.6	2.3%	YES												
			LKD	W6/F15	13.1	7.1	6	45.8%	NO												
			LKD	W7/F15	13.7	7	6.7	48.9%	NO												
			LKD	W8/F15	14.3	6.9	7.4	51.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F15	15.1	6.7	8.4	55.6%	NO	64	51.9	1.5	19.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F15	15.7	6.6	9.1	58.0%	NO	45.7	30.8	3.7	32.5%	NO	31	10	13	4	58.1%	60.0%	NO
			LKD	W11/F15	16	6.5	9.5	59.4%	NO												
	R5	RESIDENTIAL	LKD	W12/F15 / INC (2)	14.2	4.8	9.4	66.2%	NO	53.5	37.4	4.0	30.0%	NO	38	14	14	4	63.2%	71.4%	NO
			LKD	W13/F15 / INC (2)	14.2	4.4	9.8	69.0%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F15 / INC (2)	13.9	4.1	9.8	70.5%	NO	54.8	9.3	5.4	83.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F15	13.5	4.5	9	66.7%	NO	100	96.5	1.4	3.5%	YES	47	16	28	10	40.4%	37.5%	YES
			LKD	W16/F15	13.5	4.7	8.8	65.2%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W17/F15	13.8	5.5	8.3	60.1%	NO												
			LKD	W18/F15 / INC (2)	21.7	17.1	4.6	21.2%	NO												
			LKD	W19/F15 / INC (2)	21.1	17.1	4	19.0%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F15 / INC (2)	20.6	16.9	3.7	18.0%	YES	94.7	94.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F15 / INC (2)	20.5	17	3.5	17.1%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F15 / INC (2)	20.4	17.2	3.2	15.7%	YES	65.5	65.1	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F15 / INC (2)	20.1	17.2	2.9	14.4%	YES	74.9	74.6	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F15	21.1	17.1	4	19.0%	YES	80.2	79.3	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F15	21	17.3	3.7	17.6%	YES	77.8	77	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F15	20.8	17.3	3.5	16.8%	YES	90.9	90.8	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F16	R1	RESIDENTIAL	LKD	W1/F16	28.2	28.2	0	0.0%	YES	100	100	0.0	0.0%	YES	38	9	25	1	34.2%	88.9%	NO
			LKD	W2/F16	29.3	29.3	0	0.0%	YES												
			LKD	W24/F16	21.2	18.2	3	14.2%	YES												
			LKD	W25/F16	21	18.2	2.8	13.3%	YES												
	R2	RESIDENTIAL	LKD	W3/F16	27.3	26.9	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	45	13	29	6	35.6%	53.8%	YES
			LKD	W4/F16	26.1	25.6	0.5	1.9%	YES												
			LKD	W5/F16	13.2	7.2	6	45.5%	NO												
			LKD	W6/F16	13.8	7.1	6.7	48.6%	NO												
			LKD	W7/F16	14.3	7	7.3	51.0%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F16	15.2	6.8	8.4	55.3%	NO	64	51.9	1.4	18.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F16	16	6.6	9.4	58.8%	NO	32.5	19.3	3.3	40.6%	NO	31	10	14	4	54.8%	60.0%	NO

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R5	RESIDENTIAL	LKD	W10/F16	14.3	4.8	9.5	66.4%	NO	34.6	25.5	2.3	26.2%	NO	35	13	12	3	65.7%	76.9%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F16	13.9	4.3	9.6	69.1%	NO	41.7	10.4	3.7	75.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F16	13.6	4.7	8.9	65.4%	NO	100	96.6	1.3	3.4%	YES	47	16	28	10	40.4%	37.5%	YES
			LKD	W13/F16	13.5	4.8	8.7	64.4%	NO												
			LKD	W14/F16	13.8	5.6	8.2	59.4%	NO												
			LKD	W15/F16 / INC (2)	22.5	17.9	4.6	20.4%	NO												
			LKD	W16/F16 / INC (2)	21.9	17.9	4	18.3%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F16 / INC (2)	21.4	17.8	3.6	16.8%	YES	83	82.8	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F16 / INC (2)	21.3	18.1	3.2	15.0%	YES	67.8	65.7	0.2	3.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F16 / INC (2)	21	18	3	14.3%	YES	76	75.1	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE NORTH TOWER (CONTINUED)																					
	R11	RESIDENTIAL	BEDROOM	W20/F16	21.9	17.9	4	18.3%	YES	74.2	72.3	0.2	2.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F16	21.8	18.1	3.7	17.0%	YES	77.3	75.5	0.2	2.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F16	21.6	18.1	3.5	16.2%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F16	21.5	18.2	3.3	15.3%	YES												
F17	R1	RESIDENTIAL	LKD	W1/F17	28.3	28.3	0	0.0%	YES	100	100	0.0	0.0%	YES	39	9	27	1	30.8%	88.9%	NO
			LKD	W2/F17	29.1	29.1	0	0.0%	YES												
			LKD	W3/F17	29.6	29.6	0	0.0%	YES												
			LKD	W27/F17	22.1	19	3.1	14.0%	YES												
			LKD	W28/F17	21.7	19.1	2.6	12.0%	YES												
	R2	RESIDENTIAL	LKD	W4/F17	27.3	26.9	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	45	13	29	6	35.6%	53.8%	YES
			LKD	W5/F17	26.2	25.7	0.5	1.9%	YES												
			LKD	W6/F17	13.2	7.3	5.9	44.7%	NO												
			LKD	W7/F17	13.8	7.2	6.6	47.8%	NO												
			LKD	W8/F17	14.4	7.1	7.3	50.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F17	15.3	7	8.3	54.2%	NO	64	52	1.4	18.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F17	15.8	6.9	8.9	56.3%	NO	45.9	31.2	3.7	32.0%	NO	31	10	14	4	54.8%	60.0%	NO
			LKD	W11/F17	16.2	6.8	9.4	58.0%	NO												
	R5	RESIDENTIAL	LKD	W12/F17 / INC (2)	14.3	5.1	9.2	64.3%	NO	53.5	37.8	3.9	29.3%	NO	38	14	15	4	60.5%	71.4%	NO
			LKD	W13/F17 / INC (2)	14.3	4.7	9.6	67.1%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F17 / INC (2)	14	4.4	9.6	68.6%	NO	55	10.6	5.3	80.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F17	13.6	4.8	8.8	64.7%	NO	100	96.6	1.3	3.4%	YES	49	16	30	10	38.8%	37.5%	YES
			LKD	W16/F17	13.6	5	8.6	63.2%	NO												
			LKD	W17/F17	13.9	5.8	8.1	58.3%	NO												
			LKD	W18/F17 / INC (2)	23.4	18.9	4.5	19.2%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W19/F17 / INC (2)	22.9	18.8	4.1	17.9%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F17 / INC (2)	22.3	18.7	3.6	16.1%	YES	95.2	95.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F17 / INC (2)	22.2	18.8	3.4	15.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F17 / INC (2)	22.1	19	3.1	14.0%	YES	68.8	68.4	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F17 / INC (2)	21.8	18.9	2.9	13.3%	YES	77.6	77.3	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F17	22.8	18.9	3.9	17.1%	YES	83.7	82.8	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F17	22.7	19	3.7	16.3%	YES	79.2	78.6	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE NORTH TOWER (CONTINUED)																					
	R13	RESIDENTIAL	BEDROOM	W26/F17	22.4	19	3.4	15.2%	YES	91.1	91.1	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F18	R1	RESIDENTIAL	LKD	W1/F18	28.4	28.4	0	0.0%	YES	100	100	0.0	0.0%	YES	39	9	28	2	28.2%	77.8%	NO
			LKD	W2/F18	29.5	29.5	0	0.0%	YES												
			LKD	W24/F18	22.9	19.9	3	13.1%	YES												
			LKD	W25/F18	22.6	19.9	2.7	11.9%	YES												
	R2	RESIDENTIAL	LKD	W3/F18	27.4	27	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	45	13	29	6	35.6%	53.8%	YES
			LKD	W4/F18	26.3	25.7	0.6	2.3%	YES												
			LKD	W5/F18	13.3	7.4	5.9	44.4%	NO												
			LKD	W6/F18	13.9	7.3	6.6	47.5%	NO												
			LKD	W7/F18	14.5	7.3	7.2	49.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F18	15.4	7.1	8.3	53.9%	NO	64	52	1.4	18.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F18	16.1	6.9	9.2	57.1%	NO	32.5	19.3	3.3	40.6%	NO	32	10	15	4	53.1%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F18	14.4	5.1	9.3	64.6%	NO	34.5	25.5	2.2	25.9%	NO	35	13	13	3	62.9%	76.9%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F18	14	4.6	9.4	67.1%	NO	41.7	11.5	3.6	72.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F18	13.7	4.9	8.8	64.2%	NO	100	96.7	1.3	3.3%	YES	49	16	30	10	38.8%	37.5%	YES
			LKD	W13/F18	13.7	5.1	8.6	62.8%	NO												
			LKD	W14/F18	14	5.9	8.1	57.9%	NO												
			LKD	W15/F18 / INC (2)	24.4	19.9	4.5	18.4%	YES												
			LKD	W16/F18 / INC (2)	23.9	19.9	4	16.7%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F18 / INC (2)	23.3	19.8	3.5	15.0%	YES	84.6	84.5	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F18 / INC (2)	23.3	20.1	3.2	13.7%	YES	73.9	71.9	0.2	2.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F18 / INC (2)	22.9	20	2.9	12.7%	YES	81.7	81	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F18	23.7	19.8	3.9	16.5%	YES	79.9	78.2	0.2	2.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F18	23.6	19.9	3.7	15.7%	YES	83.2	81.6	0.2	2.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F18	23.4	20	3.4	14.5%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F18	23.3	20	3.3	14.2%	YES												
F19	R1	RESIDENTIAL	LKD	W1/F19	28.5	28.5	0	0.0%	YES	100	100	0.0	0.0%	YES	40	10	29	3	27.5%	70.0%	NO

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W2/F19	29.3	29.3	0	0.0%	YES												
			LKD	W3/F19	29.8	29.8	0	0.0%	YES												
			LKD	W27/F19	23.8	20.8	3	12.6%	YES												
			LKD	W28/F19	23.5	20.8	2.7	11.5%	YES												
DEANSGATE NORTH TOWER (CONTINUED)																					
	R2	RESIDENTIAL	LKD	W4/F19	27.5	27.1	0.4	1.5%	YES	100	99.3	0.3	0.7%	YES	45	13	30	6	33.3%	53.8%	YES
			LKD	W5/F19	26.3	25.8	0.5	1.9%	YES												
			LKD	W6/F19	13.3	7.5	5.8	43.6%	NO												
			LKD	W7/F19	13.9	7.5	6.4	46.0%	NO												
			LKD	W8/F19	14.5	7.4	7.1	49.0%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F19	15.4	7.3	8.1	52.6%	NO	64	52.1	1.4	18.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F19	15.9	7.2	8.7	54.7%	NO	45.9	31.3	3.7	31.8%	NO	32	10	15	4	53.1%	60.0%	NO
			LKD	W11/F19	16.3	7.1	9.2	56.4%	NO												
	R5	RESIDENTIAL	LKD	W12/F19 / INC (2)	14.4	5.3	9.1	63.2%	NO	53.5	38.3	3.8	28.4%	NO	39	14	17	4	56.4%	71.4%	NO
			LKD	W13/F19 / INC (2)	14.4	5	9.4	65.3%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F19 / INC (2)	14.1	4.7	9.4	66.7%	NO	55.1	11.8	5.2	78.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F19	13.8	5.1	8.7	63.0%	NO	100	96.7	1.3	3.3%	YES	51	16	32	10	37.3%	37.5%	YES
			LKD	W16/F19	13.8	5.2	8.6	62.3%	NO												
			LKD	W17/F19	14.1	6	8.1	57.4%	NO												
			LKD	W18/F19 / INC (2)	25.6	21.1	4.5	17.6%	YES												
			LKD	W19/F19 / INC (2)	25	21.1	3.9	15.6%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F19 / INC (2)	24.5	20.9	3.6	14.7%	YES	96.1	96.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F19 / INC (2)	24.4	21	3.4	13.9%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F19 / INC (2)	24.2	21.1	3.1	12.8%	YES	74.3	74	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F19 / INC (2)	23.8	21	2.8	11.8%	YES	80.8	80.5	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F19	24.8	20.9	3.9	15.7%	YES	88.1	87.3	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F19	24.6	21	3.6	14.6%	YES	80.7	80.2	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F19	24.2	20.9	3.3	13.6%	YES	91.6	91.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F20	R1	RESIDENTIAL	LKD	W1/F20	28.7	28.7	0	0.0%	YES	100	100	0.0	0.0%	YES	40	10	29	3	27.5%	70.0%	NO
			LKD	W2/F20	29.7	29.7	0	0.0%	YES												
			LKD	W24/F20	24.8	21.8	3	12.1%	YES												
			LKD	W25/F20	24.4	21.8	2.6	10.7%	YES												
	R2	RESIDENTIAL	LKD	W3/F20	27.6	27.2	0.4	1.4%	YES	100	99.3	0.3	0.7%	YES	45	13	30	6	33.3%	53.8%	YES
			LKD	W4/F20	26.4	25.8	0.6	2.3%	YES												
			LKD	W5/F20	13.4	7.6	5.8	43.3%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W6/F20	14	7.6	6.4	45.7%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W7/F20	14.6	7.5	7.1	48.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F20	15.4	7.4	8	51.9%	NO	64	52.3	1.4	18.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F20	16.2	7.2	9	55.6%	NO	32.6	19.3	3.3	40.6%	NO	32	10	15	4	53.1%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F20	14.5	5.4	9.1	62.8%	NO	34.5	25.6	2.2	25.7%	NO	37	13	16	3	56.8%	76.9%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F20	14.2	4.9	9.3	65.5%	NO	41.7	12.4	3.5	70.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F20	13.9	5.2	8.7	62.6%	NO	100	96.8	1.3	3.2%	YES	54	16	37	10	31.5%	37.5%	YES
			LKD	W13/F20	13.9	5.4	8.5	61.2%	NO												
			LKD	W14/F20	14.2	6.2	8	56.3%	NO												
			LKD	W15/F20 / INC (2)	26.8	22.4	4.4	16.4%	YES												
			LKD	W16/F20 / INC (2)	26.3	22.4	3.9	14.8%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F20 / INC (2)	25.7	22.2	3.5	13.6%	YES	91	90.9	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F20 / INC (2)	25.5	22.4	3.1	12.2%	YES	84.8	82.9	0.2	2.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F20 / INC (2)	25	22.2	2.8	11.2%	YES	90.7	90	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F20	25.8	21.9	3.9	15.1%	YES	89	87.5	0.2	1.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F20	25.6	22	3.6	14.1%	YES	91.4	90.3	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F20	25.3	22	3.3	13.0%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F20	25.2	21.9	3.3	13.1%	YES												
F21	R1	RESIDENTIAL	LKD	W1/F21	28.8	28.8	0	0.0%	YES	100	100	0.0	0.0%	YES	41	11	30	4	26.8%	63.6%	NO
			LKD	W2/F21	29.6	29.6	0	0.0%	YES												
			LKD	W3/F21	30	30	0	0.0%	YES												
			LKD	W27/F21	25.8	22.9	2.9	11.2%	YES												
			LKD	W28/F21	25.4	22.8	2.6	10.2%	YES												
	R2	RESIDENTIAL	LKD	W4/F21	27.6	27.2	0.4	1.4%	YES	100	99.3	0.3	0.7%	YES	45	13	30	6	33.3%	53.8%	YES
			LKD	W5/F21	26.4	25.9	0.5	1.9%	YES												
			LKD	W6/F21	13.4	7.8	5.6	41.8%	NO												
			LKD	W7/F21	14	7.7	6.3	45.0%	NO												
			LKD	W8/F21	14.6	7.7	6.9	47.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F21	15.5	7.6	7.9	51.0%	NO	64	52.2	1.4	18.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F21	16	7.5	8.5	53.1%	NO	45.9	31.6	3.6	31.3%	NO	32	10	17	4	46.9%	60.0%	NO
			LKD	W11/F21	16.4	7.4	9	54.9%	NO												
	R5	RESIDENTIAL	LKD	W12/F21 / INC (2)	14.5	5.7	8.8	60.7%	NO	53.5	38.3	3.8	28.4%	NO	39	14	18	4	53.8%	71.4%	NO
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W13/F21 / INC (2)	14.5	5.3	9.2	63.4%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R6	RESIDENTIAL	BEDROOM	W14/F21 / INC (2)	14.3	5	9.3	65.0%	NO	55.1	13	5.0	76.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F21	13.9	5.4	8.5	61.2%	NO	100	96.8	1.3	3.2%	YES	56	16	39	10	30.4%	37.5%	YES
			LKD	W16/F21	13.9	5.6	8.3	59.7%	NO												
			LKD	W17/F21	14.3	6.3	8	55.9%	NO												
			LKD	W18/F21 / INC (2)	28.2	23.8	4.4	15.6%	YES												
			LKD	W19/F21 / INC (2)	27.6	23.7	3.9	14.1%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F21 / INC (2)	27	23.5	3.5	13.0%	YES	99.2	99.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F21 / INC (2)	26.8	23.5	3.3	12.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F21 / INC (2)	26.5	23.5	3	11.3%	YES	81.2	80.9	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F21 / INC (2)	25.9	23.2	2.7	10.4%	YES	84	83.7	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F21	26.8	23	3.8	14.2%	YES	92.1	91.5	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F21	26.6	23.1	3.5	13.2%	YES	83.8	83.4	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F21	26.2	23	3.2	12.2%	YES	92	92	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F22	R1	RESIDENTIAL	LKD	W1/F22	28.9	28.9	0	0.0%	YES	100	100	0.0	0.0%	YES	45	13	34	6	24.4%	53.8%	YES
			LKD	W2/F22	30	30	0	0.0%	YES												
			LKD	W24/F22	26.9	24	2.9	10.8%	YES												
			LKD	W25/F22	26.5	23.9	2.6	9.8%	YES												
	R2	RESIDENTIAL	LKD	W3/F22	27.6	27.2	0.4	1.4%	YES	100	99.3	0.3	0.7%	YES	45	13	31	6	31.1%	53.8%	YES
			LKD	W4/F22	26.4	25.9	0.5	1.9%	YES												
			LKD	W5/F22	13.5	7.9	5.6	41.5%	NO												
			LKD	W6/F22	14.1	7.8	6.3	44.7%	NO												
			LKD	W7/F22	14.6	7.8	6.8	46.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F22	15.5	7.7	7.8	50.3%	NO	64	52.2	1.4	18.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F22	16.3	7.6	8.7	53.4%	NO	32.5	19.4	3.3	40.4%	NO	32	10	17	4	46.9%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F22	14.6	5.7	8.9	61.0%	NO	34.6	25.7	2.2	25.7%	NO	38	14	19	4	50.0%	71.4%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F22	14.3	5.2	9.1	63.6%	NO	41.7	13.7	3.3	67.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F22	14	5.6	8.4	60.0%	NO	100	97.5	1.0	2.5%	YES	56	16	39	10	30.4%	37.5%	YES
			LKD	W13/F22	14	5.7	8.3	59.3%	NO												
			LKD	W14/F22	14.3	6.5	7.8	54.5%	NO												
			LKD	W15/F22 / INC (2)	29.4	25.1	4.3	14.6%	YES												
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W16/F22 / INC (2)	28.8	25	3.8	13.2%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F22 / INC (2)	28	24.6	3.4	12.1%	YES	99.3	99.2	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F22 / INC (2)	27.7	24.6	3.1	11.2%	YES	91.2	89.4	0.2	1.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F22 / INC (2)	27.1	24.3	2.8	10.3%	YES	97.3	96.8	0.1	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R11	RESIDENTIAL	BEDROOM	W20/F22	27.8	24.1	3.7	13.3%	YES	97.8	96.3	0.2	1.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F22	27.6	24.1	3.5	12.7%	YES	95.1	94	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F22	27.4	24.1	3.3	12.0%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F22	27.3	24.1	3.2	11.7%	YES												
F23	R1	RESIDENTIAL	LKD	W1/F23	29.1	29.1	0	0.0%	YES	100	100	0.0	0.0%	YES	45	13	36	7	20.0%	46.2%	YES
			LKD	W2/F23	29.8	29.8	0	0.0%	YES												
			LKD	W3/F23	30.3	30.3	0	0.0%	YES												
			LKD	W27/F23	28	25.2	2.8	10.0%	YES												
			LKD	W28/F23	27.5	25	2.5	9.1%	YES												
	R2	RESIDENTIAL	LKD	W4/F23	27.7	27.3	0.4	1.4%	YES	100	99.3	0.3	0.7%	YES	45	13	31	6	31.1%	53.8%	YES
			LKD	W5/F23	26.5	25.9	0.6	2.3%	YES												
			LKD	W6/F23	13.5	8	5.5	40.7%	NO												
			LKD	W7/F23	14.1	8	6.1	43.3%	NO												
			LKD	W8/F23	14.7	8	6.7	45.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F23	15.6	7.9	7.7	49.4%	NO	64	52.2	1.4	18.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F23	16.1	7.8	8.3	51.6%	NO	45.9	31.9	3.5	30.5%	NO	32	10	18	4	43.8%	60.0%	NO
			LKD	W11/F23	16.5	7.8	8.7	52.7%	NO												
	R5	RESIDENTIAL	LKD	W12/F23 / INC (2)	14.6	6	8.6	58.9%	NO	53.5	38.5	3.8	28.1%	NO	39	14	19	4	51.3%	71.4%	NO
			LKD	W13/F23 / INC (2)	14.6	5.7	8.9	61.0%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F23 / INC (2)	14.4	5.4	9	62.5%	NO	55.2	15.1	4.8	72.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F23	14.1	5.7	8.4	59.6%	NO	100	99.4	0.2	0.6%	YES	59	18	43	11	27.1%	38.9%	YES
			LKD	W16/F23	14.1	5.9	8.2	58.2%	NO												
			LKD	W17/F23	14.4	6.6	7.8	54.2%	NO												
			LKD	W18/F23 / INC (2)	30.4	26.1	4.3	14.1%	YES												
			LKD	W19/F23 / INC (2)	29.8	26	3.8	12.8%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F23 / INC (2)	29.1	25.7	3.4	11.7%	YES	99.2	99.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F23 / INC (2)	28.9	25.6	3.3	11.4%	YES												
DEANSGATE NORTH TOWER (CONTINUED)																					
	R9	RESIDENTIAL	BEDROOM	W22/F23 / INC (2)	28.5	25.6	2.9	10.2%	YES	87.4	87.1	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F23 / INC (2)	28	25.3	2.7	9.6%	YES	89.1	88.8	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F23	28.8	25.1	3.7	12.8%	YES	96.6	96.1	0.1	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F23	28.7	25.3	3.4	11.8%	YES	89.3	89.1	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F23	28.4	25.3	3.1	10.9%	YES	94.3	94.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F24	R1	RESIDENTIAL	LKD	W1/F24	29.3	29.3	0	0.0%	YES	100	100	0.0	0.0%	YES	46	14	37	8	19.6%	42.9%	YES
			LKD	W2/F24	30.3	30.3	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W24/F24	29.1	26.3	2.8	9.6%	YES												
			LKD	W25/F24	28.6	26.1	2.5	8.7%	YES												
	R2	RESIDENTIAL	LKD	W3/F24	27.7	27.3	0.4	1.4%	YES	100	99.3	0.3	0.7%	YES	45	13	32	6	28.9%	53.8%	YES
			LKD	W4/F24	26.5	26	0.5	1.9%	YES												
			LKD	W5/F24	13.5	8.2	5.3	39.3%	NO												
			LKD	W6/F24	14.2	8.1	6.1	43.0%	NO												
			LKD	W7/F24	14.7	8.1	6.6	44.9%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F24	15.6	8	7.6	48.7%	NO	64	52.3	1.4	18.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F24	16.4	7.9	8.5	51.8%	NO	32.5	19.5	3.3	40.0%	NO	32	10	18	4	43.8%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F24	14.7	6.1	8.6	58.5%	NO	34.5	25.9	2.1	24.9%	NO	38	14	19	4	50.0%	71.4%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F24	14.4	5.6	8.8	61.1%	NO	41.7	15.7	3.1	62.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F24	14.2	5.9	8.3	58.5%	NO	100	99.9	0.1	0.1%	YES	59	18	43	11	27.1%	38.9%	YES
			LKD	W13/F24	14.2	6.1	8.1	57.0%	NO												
			LKD	W14/F24	14.5	6.8	7.7	53.1%	NO												
			LKD	W15/F24 / INC (2)	31.3	27	4.3	13.7%	YES												
			LKD	W16/F24 / INC (2)	30.7	26.9	3.8	12.4%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F24 / INC (2)	30	26.7	3.3	11.0%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F24 / INC (2)	29.7	26.7	3	10.1%	YES	92.7	91.2	0.2	1.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F24 / INC (2)	29.2	26.5	2.7	9.2%	YES	98.2	97.8	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F24	29.9	26.3	3.6	12.0%	YES	98.5	97.2	0.2	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F24	29.7	26.4	3.3	11.1%	YES	97.1	96.1	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F24	29.5	26.4	3.1	10.5%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F24	29.4	26.4	3	10.2%	YES												
F25	R1	RESIDENTIAL	LKD	W1/F25	29.5	29.5	0	0.0%	YES	100	100	0.0	0.0%	YES	51	15	42	9	17.6%	40.0%	YES
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W2/F25	30.2	30.2	0	0.0%	YES												
			LKD	W3/F25	30.6	30.6	0	0.0%	YES												
			LKD	W27/F25	30.2	27.5	2.7	8.9%	YES												
			LKD	W28/F25	29.7	27.2	2.5	8.4%	YES												
	R2	RESIDENTIAL	LKD	W4/F25	27.7	27.3	0.4	1.4%	YES	100	99.3	0.3	0.7%	YES	45	13	32	6	28.9%	53.8%	YES
			LKD	W5/F25	26.5	26	0.5	1.9%	YES												
			LKD	W6/F25	13.6	8.3	5.3	39.0%	NO												
			LKD	W7/F25	14.2	8.3	5.9	41.5%	NO												
			LKD	W8/F25	14.8	8.3	6.5	43.9%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F25	15.7	8.2	7.5	47.8%	NO	64	52.4	1.4	18.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R4 (3)	RESIDENTIAL	LKD	W10/F25	16.2	8.2	8	49.4%	NO	45.9	32.1	3.5	30.2%	NO	32	10	19	4	40.6%	60.0%	NO
			LKD	W11/F25	16.6	8.2	8.4	50.6%	NO												
	R5	RESIDENTIAL	LKD	W12/F25 / INC (2)	14.7	6.4	8.3	56.5%	NO	53.5	38.7	3.7	27.6%	NO	40	15	20	4	50.0%	73.3%	NO
			LKD	W13/F25 / INC (2)	14.7	6.1	8.6	58.5%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F25 / INC (2)	14.5	5.8	8.7	60.0%	NO	55.4	16.9	4.6	69.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F25	14.3	6.1	8.2	57.3%	NO	100	99.9	0.1	0.1%	YES	59	18	43	11	27.1%	38.9%	YES
			LKD	W16/F25	14.3	6.3	8	55.9%	NO												
			LKD	W17/F25	14.6	7	7.6	52.1%	NO												
			LKD	W18/F25 / INC (2)	32.1	27.8	4.3	13.4%	YES												
			LKD	W19/F25 / INC (2)	31.6	27.9	3.7	11.7%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F25 / INC (2)	31.1	27.8	3.3	10.6%	YES	99.2	99.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F25 / INC (2)	30.9	27.7	3.2	10.4%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F25 / INC (2)	30.5	27.6	2.9	9.5%	YES	94.5	94.3	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F25 / INC (2)	30	27.4	2.6	8.7%	YES	96.1	96	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F25	30.9	27.3	3.6	11.7%	YES	98.3	97.9	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F25	30.8	27.5	3.3	10.7%	YES	95.6	95.5	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F25	30.6	27.6	3	9.8%	YES	98.4	98.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F26	R1	RESIDENTIAL	LKD	W1/F26	29.7	29.7	0	0.0%	YES	100	100	0.0	0.0%	YES	51	15	42	9	17.6%	40.0%	YES
			LKD	W2/F26	30.6	30.6	0	0.0%	YES												
			LKD	W24/F26	31.3	28.6	2.7	8.6%	YES												
			LKD	W25/F26	30.8	28.3	2.5	8.1%	YES												
DEANSGATE NORTH TOWER (CONTINUED)																					
	R2	RESIDENTIAL	LKD	W3/F26	27.7	27.4	0.3	1.1%	YES	100	99.3	0.3	0.7%	YES	45	13	32	6	28.9%	53.8%	YES
			LKD	W4/F26	26.5	26	0.5	1.9%	YES												
			LKD	W5/F26	13.7	8.5	5.2	38.0%	NO												
			LKD	W6/F26	14.3	8.5	5.8	40.6%	NO												
			LKD	W7/F26	14.8	8.5	6.3	42.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F26	15.7	8.4	7.3	46.5%	NO	64	52.6	1.4	17.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F26	16.5	8.4	8.1	49.1%	NO	32.5	19.6	3.2	39.5%	NO	32	10	19	4	40.6%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F26	14.9	6.5	8.4	56.4%	NO	34.5	26.1	2.1	24.4%	NO	38	14	22	4	42.1%	71.4%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F26	14.6	6	8.6	58.9%	NO	41.8	17.5	2.9	58.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F26	14.3	6.3	8	55.9%	NO	100	99.9	0.1	0.1%	YES	60	18	44	11	26.7%	38.9%	YES
			LKD	W13/F26	14.4	6.5	7.9	54.9%	NO												
			LKD	W14/F26	14.7	7.2	7.5	51.0%	NO												
			LKD	W15/F26 / INC (2)	32.8	28.6	4.2	12.8%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W16/F26 / INC (2)	32.4	28.8	3.6	11.1%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F26 / INC (2)	32	28.7	3.3	10.3%	YES	99.4	99.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F26 / INC (2)	31.6	28.7	2.9	9.2%	YES	93.9	92.7	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F26 / INC (2)	31.2	28.6	2.6	8.3%	YES	98.3	98.1	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F26	32	28.4	3.6	11.3%	YES	98.5	97.6	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F26	31.8	28.6	3.2	10.1%	YES	97.1	96.7	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F26	31.7	28.7	3	9.5%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F26	31.6	28.7	2.9	9.2%	YES												
F27	R1	RESIDENTIAL	LKD	W1/F27	29.9	29.9	0	0.0%	YES	100	100	0.0	0.0%	YES	55	15	47	9	14.5%	40.0%	YES
			LKD	W2/F27	30.6	30.6	0	0.0%	YES												
			LKD	W3/F27	31	31	0	0.0%	YES												
			LKD	W27/F27	32	29.4	2.6	8.1%	YES												
			LKD	W28/F27	31.5	29.1	2.4	7.6%	YES												
	R2	RESIDENTIAL	LKD	W4/F27	27.8	27.4	0.4	1.4%	YES	100	99.3	0.3	0.7%	YES	45	13	32	6	28.9%	53.8%	YES
			LKD	W5/F27	26.6	26.1	0.5	1.9%	YES												
			LKD	W6/F27	13.7	8.6	5.1	37.2%	NO												
			LKD	W7/F27	14.3	8.7	5.6	39.2%	NO												
			LKD	W8/F27	14.9	8.7	6.2	41.6%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W9/F27	15.8	8.6	7.2	45.6%	NO	64	52.8	1.3	17.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F27	16.3	8.6	7.7	47.2%	NO	45.9	32.3	3.4	29.7%	NO	32	10	20	4	37.5%	60.0%	NO
			LKD	W11/F27	16.7	8.6	8.1	48.5%	NO												
	R5	RESIDENTIAL	LKD	W12/F27 / INC (2)	14.9	6.9	8	53.7%	NO	53.5	39.3	3.6	26.6%	NO	40	15	23	4	42.5%	73.3%	NO
			LKD	W13/F27 / INC (2)	14.9	6.6	8.3	55.7%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F27 / INC (2)	14.7	6.2	8.5	57.8%	NO	55.5	18.7	4.4	66.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F27	14.4	6.6	7.8	54.2%	NO	100	99.9	0.1	0.1%	YES	60	18	46	11	23.3%	38.9%	YES
			LKD	W16/F27	14.4	6.7	7.7	53.5%	NO												
			LKD	W17/F27	14.8	7.4	7.4	50.0%	NO												
			LKD	W18/F27 / INC (2)	33.3	29.2	4.1	12.3%	YES												
			LKD	W19/F27 / INC (2)	33	29.4	3.6	10.9%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F27 / INC (2)	32.6	29.4	3.2	9.8%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F27 / INC (2)	32.4	29.4	3	9.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F27 / INC (2)	32.1	29.3	2.8	8.7%	YES	94.9	94.7	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F27 / INC (2)	31.7	29.2	2.5	7.9%	YES	98.6	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F27	32.4	29	3.4	10.5%	YES	98.4	98.3	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R12	RESIDENTIAL	BEDROOM	W25/F27	32.5	29.3	3.2	9.8%	YES	96.3	96.2	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F27	32.3	29.4	2.9	9.0%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F28	R1	RESIDENTIAL	LKD	W1/F28	30.1	30.1	0	0.0%	YES	100	100	0.0	0.0%	YES	55	15	47	9	14.5%	40.0%	YES
			LKD	W2/F28	31.1	31.1	0	0.0%	YES												
			LKD	W24/F28	32.7	30.1	2.6	8.0%	YES												
			LKD	W25/F28	32.2	29.9	2.3	7.1%	YES												
	R2	RESIDENTIAL	LKD	W3/F28	27.8	27.5	0.3	1.1%	YES	100	99.3	0.3	0.7%	YES	45	13	32	6	28.9%	53.8%	YES
			LKD	W4/F28	26.6	26.1	0.5	1.9%	YES												
			LKD	W5/F28	13.8	8.8	5	36.2%	NO												
			LKD	W6/F28	14.4	8.8	5.6	38.9%	NO												
			LKD	W7/F28	15	8.9	6.1	40.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F28	15.8	8.9	6.9	43.7%	NO	64	53	1.3	17.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F28	16.7	8.8	7.9	47.3%	NO	32.5	19.9	3.2	38.9%	NO	32	10	20	4	37.5%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F28	15	7	8	53.3%	NO	34.6	26.4	2.0	23.7%	NO	38	14	22	4	42.1%	71.4%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F28	14.7	6.6	8.1	55.1%	NO	41.8	19.8	2.6	52.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE NORTH TOWER (CONTINUED)																					
	R7	RESIDENTIAL	LKD	W12/F28	14.5	6.8	7.7	53.1%	NO	100	99.9	0.1	0.1%	YES	61	18	48	11	21.3%	38.9%	YES
			LKD	W13/F28	14.5	6.9	7.6	52.4%	NO												
			LKD	W14/F28	14.9	7.6	7.3	49.0%	NO												
			LKD	W15/F28 / INC (2)	33.8	29.8	4	11.8%	YES												
			LKD	W16/F28 / INC (2)	33.5	30	3.5	10.4%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F28 / INC (2)	33.1	30	3.1	9.4%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F28 / INC (2)	32.8	30	2.8	8.5%	YES	93.9	93.1	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F28 / INC (2)	32.5	29.9	2.6	8.0%	YES	98.3	98.2	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F28	33.1	29.7	3.4	10.3%	YES	98.6	97.9	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F28	33	29.9	3.1	9.4%	YES	97.1	97.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F28	32.9	30.1	2.8	8.5%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F28	32.9	30.1	2.8	8.5%	YES												
F29	R1	RESIDENTIAL	LKD	W1/F29	30.4	30.4	0	0.0%	YES	100	100	0.0	0.0%	YES	55	15	48	9	12.7%	40.0%	YES
			LKD	W2/F29	31.1	31.1	0	0.0%	YES												
			LKD	W3/F29	31.5	31.5	0	0.0%	YES												
			LKD	W27/F29	33.3	30.8	2.5	7.5%	YES												
			LKD	W28/F29	32.9	30.6	2.3	7.0%	YES												
	R2	RESIDENTIAL	LKD	W4/F29	27.9	27.5	0.4	1.4%	YES	100	99.4	0.3	0.6%	YES	45	13	33	6	26.7%	53.8%	YES
			LKD	W5/F29	26.6	26.2	0.4	1.5%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W6/F29	13.8	9	4.8	34.8%	NO												
			LKD	W7/F29	14.5	9.1	5.4	37.2%	NO												
			LKD	W8/F29	15	9.1	5.9	39.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F29	15.9	9.1	6.8	42.8%	NO	64	53.4	1.3	16.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F29	16.4	9.1	7.3	44.5%	NO	45.9	32.6	3.3	29.0%	NO	32	10	20	4	37.5%	60.0%	NO
			LKD	W11/F29	16.8	9.1	7.7	45.8%	NO												
	R5	RESIDENTIAL	LKD	W12/F29 / INC (2)	15	7.4	7.6	50.7%	NO	53.5	39.9	3.4	25.4%	NO	40	15	24	4	40.0%	73.3%	NO
			LKD	W13/F29 / INC (2)	15	7.1	7.9	52.7%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F29 / INC (2)	14.8	6.8	8	54.1%	NO	55.8	21.6	4.1	61.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F29	14.6	7.1	7.5	51.4%	NO	100	99.9	0.1	0.1%	YES	62	18	49	11	21.0%	38.9%	YES
			LKD	W16/F29	14.6	7.2	7.4	50.7%	NO												
			LKD	W17/F29	15	7.8	7.2	48.0%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W18/F29 / INC (2)	34.3	30.3	4	11.7%	YES												
			LKD	W19/F29 / INC (2)	34.1	30.6	3.5	10.3%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F29 / INC (2)	33.8	30.7	3.1	9.2%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F29 / INC (2)	33.6	30.7	2.9	8.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F29 / INC (2)	33.3	30.7	2.6	7.8%	YES	95.2	95.2	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F29 / INC (2)	33	30.6	2.4	7.3%	YES	98.7	98.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F29	33.6	30.3	3.3	9.8%	YES	98.4	98.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F29	33.6	30.6	3	8.9%	YES	96.4	96.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F29	33.5	30.8	2.7	8.1%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F30	R1	RESIDENTIAL	LKD	W1/F30	30.7	30.7	0	0.0%	YES	100	100	0.0	0.0%	YES	55	15	49	9	10.9%	40.0%	YES
			LKD	W2/F30	31.6	31.6	0	0.0%	YES												
			LKD	W24/F30	33.8	31.4	2.4	7.1%	YES												
			LKD	W25/F30	33.5	31.3	2.2	6.6%	YES												
	R2	RESIDENTIAL	LKD	W3/F30	27.9	27.6	0.3	1.1%	YES	100	99.4	0.3	0.6%	YES	45	13	34	6	24.4%	53.8%	YES
			LKD	W4/F30	26.7	26.2	0.5	1.9%	YES												
			LKD	W5/F30	13.9	9.2	4.7	33.8%	NO												
			LKD	W6/F30	14.5	9.3	5.2	35.9%	NO												
			LKD	W7/F30	15.1	9.3	5.8	38.4%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F30	16	9.4	6.6	41.2%	NO	64	53.7	1.2	16.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F30	16.8	9.4	7.4	44.0%	NO	32.5	20.3	3.1	37.7%	NO	32	10	20	4	37.5%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F30	15.2	7.6	7.6	50.0%	NO	34.6	26.8	1.9	22.5%	NO	38	14	23	4	39.5%	71.4%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F30	14.9	7.1	7.8	52.3%	NO	42	22.6	2.3	46.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R7	RESIDENTIAL	LKD	W12/F30	14.7	7.3	7.4	50.3%	NO	100	99.9	0.1	0.1%	YES	62	18	49	11	21.0%	38.9%	YES
			LKD	W13/F30	14.7	7.4	7.3	49.7%	NO												
			LKD	W14/F30	15.1	8.1	7	46.4%	NO												
			LKD	W15/F30 / INC (2)	34.8	30.9	3.9	11.2%	YES												
			LKD	W16/F30 / INC (2)	34.6	31.2	3.4	9.8%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F30 / INC (2)	34.3	31.3	3	8.7%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F30 / INC (2)	34	31.4	2.6	7.6%	YES	94	93.7	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F30 / INC (2)	33.7	31.3	2.4	7.1%	YES	98.3	98.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F30	34.2	31	3.2	9.4%	YES	98.6	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE NORTH TOWER (CONTINUED)																					
	R12	RESIDENTIAL	BEDROOM	W21/F30	34.2	31.2	3	8.8%	YES	97.1	97.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F30	34.1	31.4	2.7	7.9%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F30	34	31.4	2.6	7.6%	YES												
F31	R1	RESIDENTIAL	LKD	W1/F31	31	31	0	0.0%	YES	100	100	0.0	0.0%	YES	56	16	50	10	10.7%	37.5%	YES
			LKD	W2/F31	31.6	31.6	0	0.0%	YES												
			LKD	W3/F31	32	32	0	0.0%	YES												
			LKD	W27/F31	34.4	32	2.4	7.0%	YES												
			LKD	W28/F31	34	31.9	2.1	6.2%	YES												
	R2	RESIDENTIAL	LKD	W4/F31	28	27.7	0.3	1.1%	YES	100	99.4	0.3	0.6%	YES	45	13	34	6	24.4%	53.8%	YES
			LKD	W5/F31	26.7	26.3	0.4	1.5%	YES												
			LKD	W6/F31	14	9.5	4.5	32.1%	NO												
			LKD	W7/F31	14.6	9.5	5.1	34.9%	NO												
			LKD	W8/F31	15.2	9.6	5.6	36.8%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F31	16.1	9.7	6.4	39.8%	NO	64	54.1	1.2	15.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F31	16.6	9.7	6.9	41.6%	NO	45.9	33.1	3.2	27.9%	NO	32	10	22	4	31.3%	60.0%	NO
			LKD	W11/F31	17	9.7	7.3	42.9%	NO												
	R5	RESIDENTIAL	LKD	W12/F31 / INC (2)	15.2	8	7.2	47.4%	NO	53.5	40.2	3.3	24.9%	NO	40	15	26	4	35.0%	73.3%	NO
			LKD	W13/F31 / INC (2)	15.3	7.7	7.6	49.7%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F31 / INC (2)	15	7.4	7.6	50.7%	NO	56.2	24.8	3.7	55.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F31	14.8	7.7	7.1	48.0%	NO	100	99.9	0.0	0.1%	YES	63	18	52	11	17.5%	38.9%	YES
			LKD	W16/F31	14.9	7.7	7.2	48.3%	NO												
			LKD	W17/F31	15.2	8.3	6.9	45.4%	NO												
			LKD	W18/F31 / INC (2)	35.3	31.5	3.8	10.8%	YES												
			LKD	W19/F31 / INC (2)	35.1	31.8	3.3	9.4%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F31 / INC (2)	34.9	31.9	3	8.6%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			BEDROOM	W21/F31 / INC (2)	34.8	32	2.8	8.0%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F31 / INC (2)	34.5	32	2.5	7.2%	YES	95.5	95.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F31 / INC (2)	34.2	32	2.2	6.4%	YES	98.9	98.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F31	34.7	31.6	3.1	8.9%	YES	98.4	98.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F31	34.7	31.9	2.8	8.1%	YES	96.5	96.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F31	34.6	32	2.6	7.5%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE NORTH TOWER (CONTINUED)																					
F32	R1	RESIDENTIAL	LKD	W1/F32	31.3	31.3	0	0.0%	YES	100	100	0.0	0.0%	YES	56	16	50	10	10.7%	37.5%	YES
			LKD	W2/F32	32.2	32.2	0	0.0%	YES												
			LKD	W24/F32	34.9	32.6	2.3	6.6%	YES												
			LKD	W25/F32	34.6	32.5	2.1	6.1%	YES												
	R2	RESIDENTIAL	LKD	W3/F32	28.1	27.7	0.4	1.4%	YES	100	99.4	0.2	0.6%	YES	45	13	34	6	24.4%	53.8%	YES
			LKD	W4/F32	26.8	26.4	0.4	1.5%	YES												
			LKD	W5/F32	14.1	9.7	4.4	31.2%	NO												
			LKD	W6/F32	14.7	9.8	4.9	33.3%	NO												
			LKD	W7/F32	15.3	9.9	5.4	35.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F32	16.2	10	6.2	38.3%	NO	64	54.8	1.1	14.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F32	17	10	7	41.2%	NO	32.5	20.7	3.0	36.4%	NO	32	10	24	4	25.0%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F32	15.4	8.3	7.1	46.1%	NO	34.6	27.5	1.8	20.6%	NO	38	14	25	4	34.2%	71.4%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F32	15.1	7.8	7.3	48.3%	NO	42.2	25.3	2.0	40.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F32	15	8	7	46.7%	NO	100	99.9	0.0	0.1%	YES	64	18	53	11	17.2%	38.9%	YES
			LKD	W13/F32	15	8.1	6.9	46.0%	NO												
			LKD	W14/F32	15.3	8.6	6.7	43.8%	NO												
			LKD	W15/F32 / INC (2)	35.8	32	3.8	10.6%	YES												
			LKD	W16/F32 / INC (2)	35.6	32.4	3.2	9.0%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F32 / INC (2)	35.4	32.5	2.9	8.2%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F32 / INC (2)	35.2	32.7	2.5	7.1%	YES	94	93.7	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F32 / INC (2)	34.9	32.7	2.2	6.3%	YES	98.3	98.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F32	35.3	32.3	3	8.5%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F32	35.2	32.4	2.8	8.0%	YES	97.1	97.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F32	35.1	32.6	2.5	7.1%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F32	35.1	32.7	2.4	6.8%	YES												
F33	R1	RESIDENTIAL	LKD	W1/F33	31.7	31.7	0	0.0%	YES	100	100	0.0	0.0%	YES	56	16	50	10	10.7%	37.5%	YES
			LKD	W2/F33	32.3	32.3	0	0.0%	YES												
			LKD	W3/F33	32.6	32.6	0	0.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W27/F33	35.2	33	2.2	6.3%	YES												
			LKD	W28/F33	34.9	32.9	2	5.7%	YES												
	R2	RESIDENTIAL	LKD	W4/F33	28.1	27.8	0.3	1.1%	YES	100	99.4	0.2	0.6%	YES	45	13	36	6	20.0%	53.8%	YES
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W5/F33	26.8	26.4	0.4	1.5%	YES												
			LKD	W6/F33	14.2	10	4.2	29.6%	NO												
			LKD	W7/F33	14.8	10.1	4.7	31.8%	NO												
			LKD	W8/F33	15.4	10.2	5.2	33.8%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F33	16.3	10.3	6	36.8%	NO	64	55.5	1.0	13.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F33	16.8	10.3	6.5	38.7%	NO	45.9	33.6	3.1	26.7%	NO	32	10	24	4	25.0%	60.0%	NO
			LKD	W11/F33	17.2	10.4	6.8	39.5%	NO												
	R5	RESIDENTIAL	LKD	W12/F33 / INC (2)	15.5	8.8	6.7	43.2%	NO	53.5	40.9	3.2	23.6%	NO	40	15	27	4	32.5%	73.3%	NO
			LKD	W13/F33 / INC (2)	15.5	8.5	7	45.2%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F33 / INC (2)	15.3	8.2	7.1	46.4%	NO	56.7	28.8	3.3	49.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F33	15.1	8.3	6.8	45.0%	NO	100	99.9	0.0	0.1%	YES	64	18	53	11	17.2%	38.9%	YES
			LKD	W16/F33	15.1	8.4	6.7	44.4%	NO												
			LKD	W17/F33	15.5	9	6.5	41.9%	NO												
			LKD	W18/F33 / INC (2)	36.1	32.4	3.7	10.2%	YES												
			LKD	W19/F33 / INC (2)	35.9	32.8	3.1	8.6%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F33 / INC (2)	35.7	33	2.7	7.6%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F33 / INC (2)	35.6	33	2.6	7.3%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F33 / INC (2)	35.4	33.1	2.3	6.5%	YES	95.7	95.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F33 / INC (2)	35.2	33.1	2.1	6.0%	YES	98.9	98.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F33	35.5	32.6	2.9	8.2%	YES	98.4	98.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F33	35.5	32.9	2.6	7.3%	YES	96.5	96.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F33	35.4	33.1	2.3	6.5%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F34	R1	RESIDENTIAL	LKD	W1/F34	32.1	32.1	0	0.0%	YES	100	100	0.0	0.0%	YES	56	16	51	11	8.9%	31.3%	YES
			LKD	W2/F34	32.8	32.8	0	0.0%	YES												
			LKD	W24/F34	35.4	33.3	2.1	5.9%	YES												
			LKD	W25/F34	35.1	33.2	1.9	5.4%	YES												
	R2	RESIDENTIAL	LKD	W3/F34	28.2	27.9	0.3	1.1%	YES	100	99.4	0.2	0.6%	YES	45	13	37	6	17.8%	53.8%	YES
			LKD	W4/F34	26.9	26.5	0.4	1.5%	YES												
			LKD	W5/F34	14.3	10.3	4	28.0%	NO												
			LKD	W6/F34	14.9	10.4	4.5	30.2%	NO												
			LKD	W7/F34	15.5	10.5	5	32.3%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
DEANSGATE NORTH TOWER (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W8/F34	16.4	10.7	5.7	34.8%	NO	64	56.1	0.9	12.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F34	17.2	10.7	6.5	37.8%	NO	32.5	21.3	2.8	34.5%	NO	32	10	24	4	25.0%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F34	15.7	9.1	6.6	42.0%	NO	34.6	28.5	1.5	17.7%	YES	38	14	26	4	31.6%	71.4%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F34	15.4	8.6	6.8	44.2%	NO	42.4	28.7	1.6	32.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F34	15.2	8.7	6.5	42.8%	NO	100	100	0.0	0.0%	YES	64	18	55	11	14.1%	38.9%	YES
			LKD	W13/F34	15.2	8.8	6.4	42.1%	NO												
			LKD	W14/F34	15.6	9.3	6.3	40.4%	NO												
			LKD	W15/F34 / INC (2)	36.3	32.8	3.5	9.6%	YES												
			LKD	W16/F34 / INC (2)	36.1	33.1	3	8.3%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F34 / INC (2)	35.9	33.3	2.6	7.2%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F34 / INC (2)	35.7	33.4	2.3	6.4%	YES	94	93.9	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F34 / INC (2)	35.5	33.4	2.1	5.9%	YES	98.3	98.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F34	35.8	32.9	2.9	8.1%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F34	35.7	33.1	2.6	7.3%	YES	97.1	97.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F34	35.6	33.3	2.3	6.5%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F34	35.6	33.3	2.3	6.5%	YES												
F35	R1	RESIDENTIAL	LKD	W1/F35	32.5	32.5	0	0.0%	YES	100	100	0.0	0.0%	YES	56	16	51	11	8.9%	31.3%	YES
			LKD	W2/F35	33	33	0	0.0%	YES												
			LKD	W3/F35	33.3	33.3	0	0.0%	YES												
			LKD	W27/F35	35.6	33.7	1.9	5.3%	YES												
			LKD	W28/F35	35.3	33.6	1.7	4.8%	YES												
	R2	RESIDENTIAL	LKD	W4/F35	28.3	28.1	0.2	0.7%	YES	100	99.4	0.2	0.6%	YES	45	13	37	6	17.8%	53.8%	YES
			LKD	W5/F35	27	26.6	0.4	1.5%	YES												
			LKD	W6/F35	14.5	10.6	3.9	26.9%	NO												
			LKD	W7/F35	15.1	10.8	4.3	28.5%	NO												
			LKD	W8/F35	15.7	10.9	4.8	30.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F35	16.5	11	5.5	33.3%	NO	64	57	0.8	11.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F35	17	11.1	5.9	34.7%	NO	45.9	34.7	2.8	24.4%	NO	32	10	24	4	25.0%	60.0%	NO
			LKD	W11/F35	17.4	11.2	6.2	35.6%	NO												
	R5	RESIDENTIAL	LKD	W12/F35 / INC (2)	15.8	9.6	6.2	39.2%	NO	53.6	41.9	2.9	21.8%	NO	40	15	27	4	32.5%	73.3%	NO
			LKD	W13/F35 / INC (2)	15.8	9.4	6.4	40.5%	NO												
DEANSGATE NORTH TOWER (CONTINUED)																					
	R6	RESIDENTIAL	BEDROOM	W14/F35 / INC (2)	15.6	9.1	6.5	41.7%	NO	57.2	33	2.9	42.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F35	15.4	9.1	6.3	40.9%	NO	100	100	0.0	0.0%	YES	64	18	55	11	14.1%	38.9%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W16/F35	15.4	9.2	6.2	40.3%	NO												
			LKD	W17/F35	15.7	9.7	6	38.2%	NO												
			LKD	W18/F35 / INC (2)	36.5	33.1	3.4	9.3%	YES												
			LKD	W19/F35 / INC (2)	36.3	33.4	2.9	8.0%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F35 / INC (2)	36.2	33.6	2.6	7.2%	YES	99.7	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F35 / INC (2)	36.1	33.7	2.4	6.6%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F35 / INC (2)	35.9	33.7	2.2	6.1%	YES	95.7	95.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W23/F35 / INC (2)	35.6	33.7	1.9	5.3%	YES	99	99	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F35	35.8	33.2	2.6	7.3%	YES	98.4	98.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F35	35.9	33.5	2.4	6.7%	YES	96.6	96.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F35	35.8	33.6	2.2	6.1%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F36	R1	RESIDENTIAL	LKD	W1/F36	32.9	32.9	0	0.0%	YES	100	100	0.0	0.0%	YES	57	16	53	12	7.0%	25.0%	YES
			LKD	W2/F36	33.6	33.6	0	0.0%	YES												
			LKD	W24/F36	35.8	34	1.8	5.0%	YES												
			LKD	W25/F36	35.6	33.9	1.7	4.8%	YES												
	R2	RESIDENTIAL	LKD	W3/F36	28.5	28.2	0.3	1.1%	YES	100	99.6	0.2	0.4%	YES	45	13	38	6	15.6%	53.8%	YES
			LKD	W4/F36	27.1	26.8	0.3	1.1%	YES												
			LKD	W5/F36	14.6	10.9	3.7	25.3%	NO												
			LKD	W6/F36	15.3	11.1	4.2	27.5%	NO												
			LKD	W7/F36	15.8	11.3	4.5	28.5%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F36	16.7	11.5	5.2	31.1%	NO	64.2	58.2	0.7	9.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F36	17.4	11.5	5.9	33.9%	NO	32.5	22.5	2.5	30.8%	NO	32	10	24	4	25.0%	60.0%	NO
	R5	RESIDENTIAL	LKD	W10/F36	16	10	6	37.5%	NO	34.7	29.5	1.3	15.0%	YES	38	14	26	4	31.6%	71.4%	NO
	R6	RESIDENTIAL	BEDROOM	W11/F36	15.8	9.5	6.3	39.9%	NO	42.8	31.8	1.3	25.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F36	15.6	9.6	6	38.5%	NO	100	100	0.0	0.0%	YES	64	18	56	11	12.5%	38.9%	YES
			LKD	W13/F36	15.6	9.6	6	38.5%	NO												
			LKD	W14/F36	15.9	10.1	5.8	36.5%	NO												
			LKD	W15/F36 / INC (2)	36.7	33.4	3.3	9.0%	YES												
			LKD	W16/F36 / INC (2)	36.6	33.8	2.8	7.7%	YES												
DEANSGATE NORTH TOWER (CONTINUED)																					
	R8	RESIDENTIAL	BEDROOM	W17/F36 / INC (2)	36.4	33.9	2.5	6.9%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F36 / INC (2)	36.2	34.1	2.1	5.8%	YES	94	93.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F36 / INC (2)	36	34.1	1.9	5.3%	YES	98.3	98.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F36	36.1	33.5	2.6	7.2%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F36	36.1	33.7	2.4	6.6%	YES	97.1	97.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R13	RESIDENTIAL	BEDROOM	W22/F36	36	33.9	2.1	5.8%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F36	36	33.9	2.1	5.8%	YES												
F37	R1	RESIDENTIAL	LKD	W1/F37	33.4	33.4	0	0.0%	YES	100	100	0.0	0.0%	YES	57	16	53	12	7.0%	25.0%	YES
			LKD	W2/F37	33.9	33.9	0	0.0%	YES												
			LKD	W3/F37	34.2	34.2	0	0.0%	YES												
			LKD	W27/F37	36	34.2	1.8	5.0%	YES												
			LKD	W28/F37	35.8	34.2	1.6	4.5%	YES												
	R2	RESIDENTIAL	LKD	W4/F37	28.6	28.4	0.2	0.7%	YES	100	99.8	0.1	0.2%	YES	45	13	38	6	15.6%	53.8%	YES
			LKD	W5/F37	27.2	26.9	0.3	1.1%	YES												
			LKD	W6/F37	14.8	11.3	3.5	23.6%	NO												
			LKD	W7/F37	15.4	11.5	3.9	25.3%	NO												
			LKD	W8/F37	16	11.7	4.3	26.9%	NO												
	R3	RESIDENTIAL	BEDROOM	W9/F37	16.9	11.9	5	29.6%	NO	64.2	59.2	0.6	7.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W10/F37	17.3	12	5.3	30.6%	NO	45.9	36.1	2.5	21.4%	NO	32	10	26	4	18.8%	60.0%	NO
			LKD	W11/F37	17.7	12	5.7	32.2%	NO												
	R5	RESIDENTIAL	LKD	W12/F37 / INC (2)	16.2	10.6	5.6	34.6%	NO	53.7	44	2.4	18.2%	YES	40	15	29	5	27.5%	66.7%	YES
			LKD	W13/F37 / INC (2)	16.2	10.4	5.8	35.8%	NO												
	R6	RESIDENTIAL	BEDROOM	W14/F37 / INC (2)	16	10.1	5.9	36.9%	NO	58.4	38.6	2.4	33.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W15/F37	15.7	10.1	5.6	35.7%	NO	100	100	0.0	0.0%	YES	64	18	57	11	10.9%	38.9%	YES
			LKD	W16/F37	15.8	10.1	5.7	36.1%	NO												
			LKD	W17/F37	16.1	10.6	5.5	34.2%	NO												
			LKD	W18/F37 / INC (2)	36.9	33.8	3.1	8.4%	YES												
			LKD	W19/F37 / INC (2)	36.8	34.1	2.7	7.3%	YES												
	R8	RESIDENTIAL	BEDROOM	W20/F37 / INC (2)	36.6	34.3	2.3	6.3%	YES	99.7	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W21/F37 / INC (2)	36.6	34.4	2.2	6.0%	YES												
	R9	RESIDENTIAL	BEDROOM	W22/F37 / INC (2)	36.4	34.4	2	5.5%	YES	95.7	95.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE NORTH TOWER (CONTINUED)																					
	R10	RESIDENTIAL	BEDROOM	W23/F37 / INC (2)	36.1	34.4	1.7	4.7%	YES	99	99	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W24/F37	36.2	33.8	2.4	6.6%	YES	98.4	98.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W25/F37	36.2	34.1	2.1	5.8%	YES	96.6	96.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W26/F37	36.2	34.2	2	5.5%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F38	R1	RESIDENTIAL	LKD	W1/F38	33.9	33.9	0	0.0%	YES	100	100	0.0	0.0%	YES	57	16	53	12	7.0%	25.0%	YES
			LKD	W2/F38	34.5	34.5	0	0.0%	YES												
			LKD	W24/F38	36.2	34.6	1.6	4.4%	YES												
			LKD	W25/F38	36	34.5	1.5	4.2%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	LKD	W3/F38	28.8	28.5	0.3	1.0%	YES	100	99.8	0.1	0.2%	YES	45	13	38	6	15.6%	53.8%	YES
			LKD	W4/F38	27.4	27.1	0.3	1.1%	YES												
			LKD	W5/F38	15	11.7	3.3	22.0%	NO												
			LKD	W6/F38	15.6	12	3.6	23.1%	NO												
			LKD	W7/F38	16.2	12.2	4	24.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W8/F38	17.1	12.4	4.7	27.5%	NO	64.2	60.3	0.5	6.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W9/F38	17.7	12.4	5.3	29.9%	NO	32.5	23.9	2.2	26.5%	NO	32	10	27	5	15.6%	50.0%	YES
	R5	RESIDENTIAL	LKD	W10/F38	16.4	11	5.4	32.9%	NO	34.7	30.6	1.0	11.6%	YES	39	14	30	5	23.1%	64.3%	YES
	R6	RESIDENTIAL	BEDROOM	W11/F38	16.2	10.6	5.6	34.6%	NO	43.4	35.9	0.9	17.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W12/F38	15.9	10.6	5.3	33.3%	NO	100	100	0.0	0.0%	YES	65	18	58	11	10.8%	38.9%	YES
			LKD	W13/F38	15.9	10.6	5.3	33.3%	NO												
			LKD	W14/F38	16.2	11	5.2	32.1%	NO												
			LKD	W15/F38 / INC (2)	37.1	34.1	3	8.1%	YES												
			LKD	W16/F38 / INC (2)	37	34.5	2.5	6.8%	YES												
	R8	RESIDENTIAL	BEDROOM	W17/F38 / INC (2)	36.9	34.7	2.2	6.0%	YES	99.5	99.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W18/F38 / INC (2)	36.7	34.8	1.9	5.2%	YES	94	93.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W19/F38 / INC (2)	36.5	34.8	1.7	4.7%	YES	98.3	98.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W20/F38	36.4	34.2	2.2	6.0%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W21/F38	36.4	34.3	2.1	5.8%	YES	97.1	97.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W22/F38	36.4	34.5	1.9	5.2%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F38	36.4	34.5	1.9	5.2%	YES												
F39	R1	RESIDENTIAL	LKD	W1/F39	34.4	34.4	0	0.0%	YES	100	100	0.0	0.0%	YES	58	16	55	13	5.2%	18.8%	YES
			LKD	W2/F39	34.8	34.8	0	0.0%	YES												
DEANSGATE NORTH TOWER (CONTINUED)																					
			LKD	W3/F39	35.1	35.1	0	0.0%	YES												
			LKD	W4/F39	35.5	35.5	0	0.0%	YES												
			LKD	W5/F39	35.6	35.6	0	0.0%	YES												
			LKD	W6/F39	35.4	35.4	0	0.0%	YES												
			LKD	W31/F39	36.7	34.8	1.9	5.2%	YES												
			LKD	W32/F39	36.7	35	1.7	4.6%	YES												
			LKD	W33/F39	36.6	35	1.6	4.4%	YES												
			LKD	W34/F39	36.4	35	1.4	3.8%	YES												
	R2	RESIDENTIAL	LKD	W7/F39	31.3	31.1	0.2	0.6%	YES	100	99	0.9	0.9%	YES	52	14	47	9	9.6%	35.7%	YES
			LKD	W8/F39	30.4	30.3	0.1	0.3%	YES												
			LKD	W9/F39	30	29.8	0.2	0.7%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W10/F39	28.9	28.7	0.2	0.7%	YES												
			LKD	W11/F39	27.5	27.2	0.3	1.1%	YES												
			LKD	W12/F39	15.4	12.3	3.1	20.1%	NO												
			LKD	W13/F39	16.1	12.6	3.5	21.7%	NO												
			LKD	W14/F39	16.5	12.7	3.8	23.0%	NO												
			LKD	W15/F39	17.4	13	4.4	25.3%	NO												
			LKD	W16/F39	17.7	13.1	4.6	26.0%	NO												
			LKD	W17/F39	17.9	13.1	4.8	26.8%	NO												
	R3	RESIDENTIAL	LKD	W18/F39	16.5	11.7	4.8	29.1%	NO	99.9	98.8	1.1	1.1%	YES	75	22	67	14	10.7%	36.4%	YES
			LKD	W19/F39	16.9	11.8	5.1	30.2%	NO												
			LKD	W20/F39	16.6	11.4	5.2	31.3%	NO												
			LKD	W21/F39	16.3	11.2	5.1	31.3%	NO												
			LKD	W22/F39	16.3	11.3	5	30.7%	NO												
			LKD	W23/F39	16.7	11.7	5	29.9%	NO												
			LKD	W24/F39	37.3	34.5	2.8	7.5%	YES												
			LKD	W25/F39	37.2	34.8	2.4	6.5%	YES												
			LKD	W26/F39	37.1	35	2.1	5.7%	YES												
			LKD	W27/F39	37.1	35.1	2	5.4%	YES												
			LKD	W28/F39	36.9	35.1	1.8	4.9%	YES												
	R4	RESIDENTIAL	BEDROOM	W29/F39	36.6	35.1	1.5	4.1%	YES	95.2	95.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEANSGATE NORTH TOWER (CONTINUED)																					
	R5	RESIDENTIAL	BEDROOM	W30/F39	36.7	34.6	2.1	5.7%	YES	95.7	95.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F40	R1	RESIDENTIAL	LKD	W1/F40	17.8	13.7	4.1	23.0%	NO	91.7	64.7	8.3	29.5%	NO	35	10	31	6	11.4%	40.0%	YES
			LKD	W2/F40	18	13.8	4.2	23.3%	NO												
			LKD	W3/F40	18.3	13.8	4.5	24.6%	NO												
	R2	RESIDENTIAL	LKD	W4/F40	16.9	12.5	4.4	26.0%	NO	92.6	61.4	10.0	33.7%	NO	43	15	34	6	20.9%	60.0%	YES
			LKD	W5/F40	17.3	12.6	4.7	27.2%	NO												
			LKD	W6/F40	16.9	12.1	4.8	28.4%	NO												
	R3	RESIDENTIAL	LKD	W7/F40	37.3	35.4	1.9	5.1%	YES	90.3	90.3	0.0	0.0%	YES	54	16	49	11	9.3%	31.3%	YES
			LKD	W8/F40	37.4	35.5	1.9	5.1%	YES												
			LKD	W9/F40	37.2	35.6	1.6	4.3%	YES												
	R4	RESIDENTIAL	LKD	W10/F40	36.9	35.1	1.8	4.9%	YES	90.8	90.8	0.0	0.0%	YES	54	16	49	11	9.3%	31.3%	YES
			LKD	W11/F40	36.9	35.3	1.6	4.3%	YES												
CITY SOUTH BLOCK C																					

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
F00	R1	RESIDENTIAL	BEDROOM	W1/F00	11.5	10.9	0.6	5.2%	YES	58.5	58.4	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F00	11.8	11.3	0.5	4.2%	YES	39.5	39.2	0.0	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F00	11.9	11.4	0.5	4.2%	YES	27.1	27	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F00	11.8	11.3	0.5	4.2%	YES	24.7	24.7	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F00	10.7	10.2	0.5	4.7%	YES	39.8	39	0.1	2.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W6/F00	11.8	9.6	2.2	18.6%	YES	33	27.7	0.7	16.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W7/F00	11.2	8.8	2.4	21.4%	NO	52.9	38	1.0	28.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W8/F00	10.6	8.1	2.5	23.6%	NO	35.1	34	0.1	2.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9 (3)	RESIDENTIAL	LKD	W9/F00	1.4	0.9	0.5	35.7%	NO	11.7	9	0.6	23.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10 (3)	RESIDENTIAL	LKD	W10/F00	0.5	0.1	0.4	80.0%	NO	7.7	3.8	0.8	50.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W11/F00	10.1	7.1	3	29.7%	NO	29.6	24.2	0.4	18.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12	RESIDENTIAL	BEDROOM	W12/F00	10.3	7.1	3.2	31.1%	NO	38.2	34.2	0.2	10.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13 (3)	RESIDENTIAL	BEDROOM	W13/F00	11	7.5	3.5	31.8%	NO	39.8	35.9	0.7	9.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R14	RESIDENTIAL	BEDROOM	W14/F00	13.2	9.6	3.6	27.3%	NO	84.9	84.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W15/F00	13.9	10.2	3.7	26.6%	NO	79.1	76.4	0.7	3.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R16	RESIDENTIAL	BEDROOM	W16/F00	14.4	10.5	3.9	27.1%	NO	65.7	64.1	0.2	2.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R17	RESIDENTIAL	BEDROOM	W17/F00	12.9	9.4	3.5	27.1%	NO	61.3	60.4	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CITY SOUTH BLOCK C (CONTINUED)																					
	R18	RESIDENTIAL	LKD	W18/F00	7.4	5	2.4	32.4%	NO	71.8	65.9	0.9	8.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R19	RESIDENTIAL	BEDROOM	W19/F00	13.5	9.7	3.8	28.1%	NO	55.1	41.5	1.5	24.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R20	RESIDENTIAL	LKD	W20/F00	7.3	4.5	2.8	38.4%	NO	86.3	80	1.3	7.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W21/F00	9.5	6.3	3.2	33.7%	NO												
			LKD	W22/F00	12.1	8.9	3.2	26.4%	NO												
	R21	RESIDENTIAL	BEDROOM	W23/F00	15.5	12.6	2.9	18.7%	YES	98	96.7	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W24/F00	15.3	13.3	2	13.1%	YES												
			BEDROOM	W25/F00	29.4	26.3	3.1	10.5%	YES												
	R22	RESIDENTIAL	BEDROOM	W26/F00	26.2	23.3	2.9	11.1%	YES	93.9	93	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R23	RESIDENTIAL	BEDROOM	W27/F00	29.3	26.6	2.7	9.2%	YES	98.4	96.3	0.3	2.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R24	RESIDENTIAL	BEDROOM	W28/F00	28.8	26.3	2.5	8.7%	YES	98.1	92.7	0.5	5.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R25 (3)	RESIDENTIAL	LKD	W29/F00	25.2	23.5	1.7	6.7%	YES	98.8	98.6	0.1	0.2%	YES	52	20	51	20	1.9%	0.0%	YES
F01	R1	RESIDENTIAL	BEDROOM	W1/F01	13.9	13.2	0.7	5.0%	YES	72.3	72.3	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F01	14.2	13.5	0.7	4.9%	YES	51	50.6	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F01	14.4	13.8	0.6	4.2%	YES	34.5	34.4	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F01	14.2	13.6	0.6	4.2%	YES	33.2	33.1	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F01	12.9	12.3	0.6	4.7%	YES	52.3	51.7	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R6	RESIDENTIAL	BEDROOM	W6/F01	13.2	12.8	0.4	3.0%	YES	36.3	36	0.0	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W7/F01	12.3	12.1	0.2	1.6%	YES	55.8	55.6	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W8/F01	10.7	10.7	0	0.0%	YES												
			LKD	W9/F01	9.1	9.1	0	0.0%	YES												
	R8	RESIDENTIAL	BEDROOM	W10/F01	13.9	11.5	2.4	17.3%	YES	40.4	35.2	0.7	12.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W11/F01	13	10.4	2.6	20.0%	YES	61.3	44.7	1.1	27.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W12/F01	12.2	9.6	2.6	21.3%	NO	40.5	40	0.0	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11 (3)	RESIDENTIAL	LKD	W13/F01	2.6	1.9	0.7	26.9%	NO	19.2	16.3	0.7	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12 (3)	RESIDENTIAL	LKD	W14/F01	1.2	0.4	0.8	66.7%	NO	13.6	9.1	0.9	33.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W15/F01	11.4	8.1	3.3	28.9%	NO	31.9	27	0.4	15.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R14	RESIDENTIAL	BEDROOM	W16/F01	11.5	8.1	3.4	29.6%	NO	41.7	38.3	0.2	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15 (3)	RESIDENTIAL	BEDROOM	W17/F01	12.2	8.6	3.6	29.5%	NO	45.5	41.6	0.7	8.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R16	RESIDENTIAL	BEDROOM	W18/F01	14.4	10.6	3.8	26.4%	NO	87.8	87.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R17	RESIDENTIAL	LKD	W19/F01	14.9	11.1	3.8	25.5%	NO	82.2	80.6	0.4	1.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CITY SOUTH BLOCK C (CONTINUED)																					
	R18	RESIDENTIAL	BEDROOM	W20/F01	15.6	11.7	3.9	25.0%	NO	68.4	67.7	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R19	RESIDENTIAL	BEDROOM	W21/F01	14	10.5	3.5	25.0%	NO	64.5	63.9	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R20	RESIDENTIAL	LKD	W22/F01	10.1	7.3	2.8	27.7%	NO	75.4	71.5	0.6	5.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R21	RESIDENTIAL	BEDROOM	W23/F01	14.6	10.7	3.9	26.7%	NO	58.5	44.9	1.5	23.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R22	RESIDENTIAL	LKD	W24/F01	9.7	6.5	3.2	33.0%	NO	87.6	80.4	1.5	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W25/F01	12	8.4	3.6	30.0%	NO												
			LKD	W26/F01	14.7	11	3.7	25.2%	NO												
	R23	RESIDENTIAL	BEDROOM	W27/F01	18.2	14.9	3.3	18.1%	YES	98	96.7	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W28/F01	17.7	15.2	2.5	14.1%	YES												
			BEDROOM	W29/F01	30.9	27.7	3.2	10.4%	YES												
	R24	RESIDENTIAL	BEDROOM	W30/F01	27.8	24.9	2.9	10.4%	YES	93.8	93	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R25	RESIDENTIAL	BEDROOM	W31/F01	31.5	28.8	2.7	8.6%	YES	98.3	96.3	0.3	2.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R26	RESIDENTIAL	BEDROOM	W32/F01	31.3	28.7	2.6	8.3%	YES	98.2	92.7	0.5	5.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R27 (3)	RESIDENTIAL	LKD	W33/F01	28.7	26.9	1.8	6.3%	YES	98.9	98.7	0.1	0.2%	YES	59	22	58	22	1.7%	0.0%	YES
F02	R1	RESIDENTIAL	BEDROOM	W1/F02	17.1	16.2	0.9	5.3%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F02	17.4	16.6	0.8	4.6%	YES	69.1	68.8	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F02	17.6	16.8	0.8	4.5%	YES	47.3	47.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F02	17.5	16.7	0.8	4.6%	YES	50.4	50.3	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F02	15.7	14.9	0.8	5.1%	YES	72.2	71.9	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W6/F02	16.2	15.6	0.6	3.7%	YES	51	50	0.1	1.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R7	RESIDENTIAL	LKD	W7/F02	15.3	14.8	0.5	3.3%	YES	76.3	76.2	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W8/F02	13.4	13.3	0.1	0.7%	YES												
			LKD	W9/F02	11.2	11.2	0	0.0%	YES												
	R8	RESIDENTIAL	BEDROOM	W10/F02	15.8	13.2	2.6	16.5%	YES	47.2	42	0.7	11.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W11/F02	14.8	12	2.8	18.9%	YES	67.3	49.4	1.2	26.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W12/F02	13.9	11.1	2.8	20.1%	NO	45.1	44.9	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11 (3)	RESIDENTIAL	LKD	W13/F02	3.2	2.4	0.8	25.0%	NO	22.9	18.5	1.0	19.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12 (3)	RESIDENTIAL	LKD	W14/F02	1.7	0.8	0.9	52.9%	NO	21	16.5	0.9	21.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W15/F02	12.7	9.4	3.3	26.0%	NO	36.2	32.1	0.3	11.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R14	RESIDENTIAL	BEDROOM	W16/F02	12.9	9.3	3.6	27.9%	NO	49.6	47.6	0.1	4.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15 (3)	RESIDENTIAL	BEDROOM	W17/F02	13.5	9.8	3.7	27.4%	NO	54.2	50	0.8	7.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CITY SOUTH BLOCK C (CONTINUED)																					
	R16	RESIDENTIAL	BEDROOM	W18/F02	15.6	11.8	3.8	24.4%	NO	91.7	91.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R17	RESIDENTIAL	LKD	W19/F02	16.2	12.3	3.9	24.1%	NO	84.6	84.2	0.1	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R18	RESIDENTIAL	BEDROOM	W20/F02	16.9	13	3.9	23.1%	NO	74.8	74.1	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R19	RESIDENTIAL	BEDROOM	W21/F02	15.3	11.8	3.5	22.9%	NO	70.5	69.9	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R20	RESIDENTIAL	LKD	W22/F02	11.5	8.7	2.8	24.3%	NO	78.4	77.9	0.1	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R21	RESIDENTIAL	BEDROOM	W23/F02	16	12	4	25.0%	NO	64.2	50.5	1.5	21.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R22	RESIDENTIAL	LKD	W24/F02	10.6	7.3	3.3	31.1%	NO	88.1	80.6	1.5	8.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W25/F02	12.8	9.2	3.6	28.1%	NO												
			LKD	W26/F02	15.4	11.7	3.7	24.0%	NO												
	R23	RESIDENTIAL	BEDROOM	W27/F02	18.8	15.4	3.4	18.1%	YES	98	96.7	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W28/F02	18.1	15.6	2.5	13.8%	YES												
			BEDROOM	W29/F02	31.3	28.2	3.1	9.9%	YES												
	R24	RESIDENTIAL	BEDROOM	W30/F02	28.5	25.5	3	10.5%	YES	93.9	93	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R25	RESIDENTIAL	BEDROOM	W31/F02	32.1	29.3	2.8	8.7%	YES	98.3	96.3	0.3	2.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R26	RESIDENTIAL	BEDROOM	W32/F02	31.9	29.2	2.7	8.5%	YES	98.3	92.7	0.5	5.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R27 (3)	RESIDENTIAL	LKD	W33/F02	29.5	27.7	1.8	6.1%	YES	98.9	98.7	0.1	0.2%	YES	59	22	58	22	1.7%	0.0%	YES
F03	R1	RESIDENTIAL	BEDROOM	W1/F03	21.2	20	1.2	5.7%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F03	21.3	20.2	1.1	5.2%	YES	97.9	97.6	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F03	21.1	20	1.1	5.2%	YES	68.4	68.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F03	20.8	19.8	1	4.8%	YES	82.9	82.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F03	19	18	1	5.3%	YES	96.6	96.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W6/F03	19.5	18.6	0.9	4.6%	YES	76.2	75.6	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W7/F03	18.3	17.7	0.6	3.3%	YES	97.8	97.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	CRITERIA
			LKD	W8/F03	16.4	16.1	0.3	1.8%	YES												
			LKD	W9/F03	13.6	13.6	0	0.0%	YES												
	R8	RESIDENTIAL	BEDROOM	W10/F03	17.7	14.9	2.8	15.8%	YES	54.4	49.3	0.7	9.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W11/F03	16.7	13.7	3	18.0%	YES	71.2	53.7	1.2	24.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W12/F03	15.9	12.9	3	18.9%	YES	50.6	50.5	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11 (3)	RESIDENTIAL	LKD	W13/F03	4.2	3.2	1	23.8%	NO	24.9	21.2	0.9	14.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12 (3)	RESIDENTIAL	LKD	W14/F03	2.2	1.2	1	45.5%	NO	23.9	19.4	1.0	19.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W15/F03	14.5	11	3.5	24.1%	NO	44.2	40.6	0.3	8.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CITY SOUTH BLOCK C (CONTINUED)																					
	R14	RESIDENTIAL	BEDROOM	W16/F03	14.5	10.9	3.6	24.8%	NO	62.1	60.5	0.1	2.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15 (3)	RESIDENTIAL	BEDROOM	W17/F03	15	11.3	3.7	24.7%	NO	66.2	62.2	0.8	6.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R16	RESIDENTIAL	BEDROOM	W18/F03	17	13.2	3.8	22.4%	NO	95.2	95.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R17	RESIDENTIAL	LKD	W19/F03	17.5	13.7	3.8	21.7%	NO	89.9	89.7	0.1	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R18	RESIDENTIAL	BEDROOM	W20/F03	18.4	14.5	3.9	21.2%	NO	83.6	82.9	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R19	RESIDENTIAL	BEDROOM	W21/F03	17.1	13.5	3.6	21.1%	NO	80	79.4	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R20	RESIDENTIAL	LKD	W22/F03	13	10.1	2.9	22.3%	NO	84.1	84.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R21	RESIDENTIAL	BEDROOM	W23/F03	17.6	13.6	4	22.7%	NO	74.9	61.6	1.5	17.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R22	RESIDENTIAL	LKD	W24/F03	11.5	8.2	3.3	28.7%	NO	90.6	85.3	1.1	5.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W25/F03	13.7	9.9	3.8	27.7%	NO												
			LKD	W26/F03	16	12.2	3.8	23.8%	NO												
	R23	RESIDENTIAL	BEDROOM	W27/F03	19.2	15.7	3.5	18.2%	YES	98.1	96.7	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W28/F03	18.1	15.6	2.5	13.8%	YES												
			BEDROOM	W30/F03	31.5	28.3	3.2	10.2%	YES												
	R24	RESIDENTIAL	BEDROOM	W29/F03	28.6	25.6	3	10.5%	YES	93.9	93	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R25	RESIDENTIAL	BEDROOM	W31/F03	32.3	29.5	2.8	8.7%	YES	98.4	96.3	0.3	2.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R26	RESIDENTIAL	BEDROOM	W32/F03	32.1	29.5	2.6	8.1%	YES	98.3	92.8	0.5	5.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R27 (3)	RESIDENTIAL	LKD	W33/F03	29.7	27.8	1.9	6.4%	YES	98.9	98.7	0.1	0.3%	YES	59	22	58	22	1.7%	0.0%	YES
F04	R1	RESIDENTIAL	BEDROOM	W1/F04	20.8	19.7	1.1	5.3%	YES	91.7	91	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	LKD	W2/F04	19.6	18.6	1	5.1%	YES	98.5	98.4	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W3/F04	17.8	17.2	0.6	3.4%	YES												
			LKD	W4/F04	15.3	15	0.3	2.0%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F04	19.9	17	2.9	14.6%	YES	64.6	59.6	0.7	7.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W6/F04	18.8	15.8	3	16.0%	YES	77	59.6	1.2	22.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W7/F04	18.3	15.2	3.1	16.9%	YES	58.4	58.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6 (3)	RESIDENTIAL	LKD	W8/F04	9.3	7.2	2.1	22.6%	NO	27.3	25.4	0.4	6.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R7 (3)	RESIDENTIAL	LKD	W9/F04	8.2	7.2	1	12.2%	YES	29.7	28	0.3	5.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W10/F04	16.7	13.2	3.5	21.0%	NO	52.8	49.4	0.3	6.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W11/F04	16.4	12.7	3.7	22.6%	NO	76.7	75.3	0.1	1.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10 (3)	RESIDENTIAL	BEDROOM	W12/F04	17	13.2	3.8	22.4%	NO	72	68.1	0.7	5.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W13/F04	18.8	15	3.8	20.2%	NO	95.9	95.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CITY SOUTH BLOCK C (CONTINUED)																					
	R12	RESIDENTIAL	LKD	W14/F04	19.1	15.3	3.8	19.9%	YES	94.3	94	0.1	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R13	RESIDENTIAL	BEDROOM	W15/F04	20	16.1	3.9	19.5%	YES	90.4	89.7	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R14	RESIDENTIAL	BEDROOM	W16/F04	20.1	16.1	4	19.9%	YES	91	90.5	0.0	0.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R15	RESIDENTIAL	LKD	W17/F04	19.9	15.9	4	20.1%	NO	92.7	92.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R16	RESIDENTIAL	BEDROOM	W18/F04	19.5	15.5	4	20.5%	NO	78.4	65.1	1.5	17.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R17	RESIDENTIAL	LKD	W19/F04	14.9	11	3.9	26.2%	NO	95	92.9	0.4	2.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			LKD	W20/F04	17.3	12.9	4.4	25.4%	NO												
			LKD	W21/F04	19.2	14.7	4.5	23.4%	NO												
	R18	RESIDENTIAL	BEDROOM	W22/F04	21.8	17.7	4.1	18.8%	YES	98.1	96.8	0.1	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W23/F04	19.8	16.8	3	15.2%	YES												
			BEDROOM	W25/F04	31.7	28.4	3.3	10.4%	YES												
	R19	RESIDENTIAL	BEDROOM	W24/F04	28.7	25.7	3	10.5%	YES	93.9	93	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R20	RESIDENTIAL	BEDROOM	W26/F04	32.4	29.6	2.8	8.6%	YES	98.4	96.3	0.3	2.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R21	RESIDENTIAL	BEDROOM	W27/F04	32.6	29.9	2.7	8.3%	YES	98.7	92.8	0.6	6.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R22 (3)	RESIDENTIAL	LKD	W28/F04	32.9	30.3	2.6	7.9%	YES	99.1	98.7	0.1	0.4%	YES	62	22	60	22	3.2%	0.0%	YES
CITY SOUTH BLOCK A																					
F00	R1	RESIDENTIAL	BEDROOM	W1/F00	14	12.4	1.6	11.4%	YES	41.8	41.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F00	13.7	12	1.7	12.4%	YES	61	58.5	0.2	4.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W3/F00	12.8	11	1.8	14.1%	YES	25.4	23.7	0.4	6.7%	YES	17	0	15	0	11.8%	0.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W4/F00	8.8	6.8	2	22.7%	NO	20	19.2	0.2	3.7%	YES	6	0	3	0	50.0%	0.0%	YES
F01	R1	RESIDENTIAL	BEDROOM	W1/F01	16.8	14.8	2	11.9%	YES	54.8	54.8	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F01	16.6	14.5	2.1	12.7%	YES	75.7	73.3	0.2	3.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W3/F01	15.8	13.7	2.1	13.3%	YES	32.4	29.7	0.6	8.3%	YES	26	0	23	0	11.5%	0.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W4/F01	10.7	8.6	2.1	19.6%	YES	24.2	23.6	0.1	2.4%	YES	10	0	6	0	40.0%	0.0%	YES
F02	R1	RESIDENTIAL	BEDROOM	W1/F02	19.7	17.3	2.4	12.2%	YES	75	75	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F02	19.8	17.4	2.4	12.1%	YES	92.8	90.1	0.2	2.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W3/F02	19.5	17.2	2.3	11.8%	YES	44.7	40.5	1.0	9.5%	YES	35	1	30	1	14.3%	0.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W4/F02	13.6	11.4	2.2	16.2%	YES	31.4	30.7	0.2	2.4%	YES	17	0	13	0	23.5%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F03	R1	RESIDENTIAL	BEDROOM	W1/F03	22.4	19.8	2.6	11.6%	YES	94.7	94.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F03	22.8	20.2	2.6	11.4%	YES	97.5	95.1	0.2	2.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CITY SOUTH BLOCK A (CONTINUED)																					
	R3 (3)	RESIDENTIAL	LKD	W3/F03	23	20.5	2.5	10.9%	YES	64.7	57	1.8	11.9%	YES	43	7	37	7	14.0%	0.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W4/F03	19.3	17	2.3	11.9%	YES	53.2	52.8	0.1	0.7%	YES	29	1	25	1	13.8%	0.0%	YES
F04	R1	RESIDENTIAL	BEDROOM	W1/F04	24.6	21.8	2.8	11.4%	YES	97	97	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F04	25.4	22.6	2.8	11.0%	YES	97.5	95.3	0.2	2.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3 (3)	RESIDENTIAL	LKD	W3/F04	26	23.4	2.6	10.0%	YES	83.5	70.2	3.1	16.0%	YES	49	13	43	13	12.2%	0.0%	YES
	R4 (3)	RESIDENTIAL	LKD	W4/F04	26.1	23.7	2.4	9.2%	YES	96.3	95.9	0.1	0.3%	YES	44	10	40	10	9.1%	0.0%	YES
RIVER STREET TOWER																					
F01	R1	RESIDENTIAL	BEDROOM	W1/F01	35.5	34.2	1.3	3.7%	YES	95.8	95.4	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F01	35.3	34	1.3	3.7%	YES	95	94.3	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F01	35.2	33.8	1.4	4.0%	YES	95	94.2	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F01	35.1	33.7	1.4	4.0%	YES	97	96.1	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F01	34.9	33.5	1.4	4.0%	YES	98.2	97.8	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F01	20.8	18.5	2.3	11.1%	YES												
	R6	RESIDENTIAL	BEDROOM	W7/F01	20.7	18.6	2.1	10.1%	YES	63.5	57.9	0.6	8.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F01	20.7	18.7	2	9.7%	YES	63	57.5	0.6	8.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F01	20.7	18.8	1.9	9.2%	YES	63.9	58.6	0.5	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F02	R1	RESIDENTIAL	BEDROOM	W1/F02	35.8	34.5	1.3	3.6%	YES	96.5	96	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F02	35.7	34.3	1.4	3.9%	YES	95.7	95	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F02	35.5	34.2	1.3	3.7%	YES	95.5	94.7	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F02	35.4	34	1.4	4.0%	YES	97.6	96.7	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F02	35.3	33.9	1.4	4.0%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F02	22.2	19.9	2.3	10.4%	YES												
	R6	RESIDENTIAL	BEDROOM	W7/F02	22.2	20.1	2.1	9.5%	YES	78.8	71.9	0.7	8.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F02	22.2	20.2	2	9.0%	YES	79.2	72.7	0.7	8.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F02	22.2	20.3	1.9	8.6%	YES	79.4	73.4	0.6	7.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F03	R1	RESIDENTIAL	BEDROOM	W1/F03	36	34.7	1.3	3.6%	YES	96.5	96.1	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F03	35.9	34.6	1.3	3.6%	YES	95.9	95	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F03	35.8	34.4	1.4	3.9%	YES	95.8	94.7	0.1	1.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F03	35.7	34.3	1.4	3.9%	YES	97.6	96.8	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F03	35.6	34.1	1.5	4.2%	YES	98.7	98.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RIVER STREET TOWER (CONTINUED)																					

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			BEDROOM	W6/F03	23.8	21.5	2.3	9.7%	YES												
	R6	RESIDENTIAL	BEDROOM	W7/F03	23.8	21.7	2.1	8.8%	YES	90.4	83.1	0.7	8.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F03	23.8	21.8	2	8.4%	YES	91.6	84.6	0.7	7.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F03	23.9	22	1.9	7.9%	YES	92.4	86.1	0.6	6.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F04	R1	RESIDENTIAL	BEDROOM	W1/F04	36.2	34.9	1.3	3.6%	YES	96.6	96.1	0.0	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F04	36.1	34.8	1.3	3.6%	YES	96	95.1	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F04	35.9	34.6	1.3	3.6%	YES	95.9	94.8	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F04	35.8	34.5	1.3	3.6%	YES	97.6	96.8	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F04	35.7	34.3	1.4	3.9%	YES	98.7	98.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F04	25.4	23.1	2.3	9.1%	YES												
	R6	RESIDENTIAL	BEDROOM	W7/F04	25.4	23.3	2.1	8.3%	YES	91.4	83.7	0.8	8.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F04	25.4	23.4	2	7.9%	YES	92.4	85	0.8	8.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F04	25.5	23.6	1.9	7.5%	YES	92.9	86.3	0.7	7.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F05	R1	RESIDENTIAL	BEDROOM	W1/F05	36.3	35	1.3	3.6%	YES	96.9	96.2	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F05	36.2	34.8	1.4	3.9%	YES	96.2	95.1	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F05	36	34.7	1.3	3.6%	YES	95.7	94.9	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F05	35.9	34.5	1.4	3.9%	YES	97.6	96.8	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F05	35.8	34.4	1.4	3.9%	YES	98.7	98.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F05	26.9	24.6	2.3	8.6%	YES												
	R6	RESIDENTIAL	BEDROOM	W7/F05	26.8	24.7	2.1	7.8%	YES	92.1	83.7	0.8	9.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F05	26.8	24.8	2	7.5%	YES	92.9	85.1	0.8	8.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F05	26.9	25	1.9	7.1%	YES	93.8	86.5	0.7	7.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F06	R1	RESIDENTIAL	BEDROOM	W1/F06	36.4	35.1	1.3	3.6%	YES	97	96.3	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F06	36.2	34.9	1.3	3.6%	YES	96.3	95.2	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F06	36.1	34.7	1.4	3.9%	YES	95.7	94.9	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F06	36	34.6	1.4	3.9%	YES	97.5	96.8	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F06	35.9	34.5	1.4	3.9%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F06	28.2	25.9	2.3	8.2%	YES												
	R6	RESIDENTIAL	BEDROOM	W7/F06	28.2	26.1	2.1	7.4%	YES	92.7	83.8	0.9	9.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F06	28.2	26.2	2	7.1%	YES	93.4	85.1	0.8	8.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F06	28.3	26.4	1.9	6.7%	YES	93.9	86.6	0.7	7.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RIVER STREET TOWER (CONTINUED)																					
	R9	RESIDENTIAL	BEDROOM	W10/F06	27.5	27	0.5	1.8%	YES	76.4	75.3	0.2	1.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W11/F06	25.9	25.4	0.5	1.9%	YES	77	77	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W12/F06	24.5	24	0.5	2.0%	YES	69.4	69.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R12 (3)	RESIDENTIAL	LD	W13/F06	23.6	22.9	0.7	3.0%	YES	65.2	59.8	1.7	8.2%	YES	48	16	47	16	2.1%	0.0%	YES
			LD	W14/F06	23	22	1	4.3%	YES												
F07	R1	RESIDENTIAL	BEDROOM	W1/F07	36.4	35.1	1.3	3.6%	YES	97	96.3	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F07	36.3	35	1.3	3.6%	YES	95.9	95.1	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F07	36.2	34.8	1.4	3.9%	YES	95.7	95	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F07	36.1	34.7	1.4	3.9%	YES	97.8	96.9	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F07	35.9	34.5	1.4	3.9%	YES	98.7	98.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F07	29.2	26.9	2.3	7.9%	YES												
	R6	RESIDENTIAL	BEDROOM	W7/F07	29.2	27.1	2.1	7.2%	YES	93.7	83.8	1.0	10.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F07	29.2	27.2	2	6.8%	YES	93.9	85.3	0.9	9.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F07	29.2	27.3	1.9	6.5%	YES	94.6	86.8	0.8	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W10/F07	29.7	29	0.7	2.4%	YES	86.5	85.5	0.1	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W11/F07	28.4	27.7	0.7	2.5%	YES	86.5	86.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W12/F07	27.3	26.6	0.7	2.6%	YES	82.1	82.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12 (3)	RESIDENTIAL	LD	W13/F07	26.6	25.8	0.8	3.0%	YES	66.8	65.2	0.5	2.4%	YES	55	17	54	17	1.8%	0.0%	YES
			LD	W14/F07	26.1	25	1.1	4.2%	YES												
F08	R1	RESIDENTIAL	BEDROOM	W1/F08	36.5	35.2	1.3	3.6%	YES	97	96.4	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F08	36.4	35.1	1.3	3.6%	YES	95.9	95.1	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F08	36.2	34.9	1.3	3.6%	YES	95.7	94.9	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F08	36.1	34.8	1.3	3.6%	YES	97.8	96.9	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F08	36	34.6	1.4	3.9%	YES	98.7	98.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F08	29.7	27.4	2.3	7.7%	YES												
	R6	RESIDENTIAL	BEDROOM	W7/F08	29.8	27.7	2.1	7.0%	YES	94.1	83.8	1.0	10.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F08	29.8	27.8	2	6.7%	YES	94.4	85.4	0.9	9.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F08	29.9	27.9	2	6.7%	YES	95.5	87	0.9	8.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W10/F08	32	31.2	0.8	2.5%	YES	97.1	96	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W11/F08	31.1	30.2	0.9	2.9%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W12/F08	30.3	29.4	0.9	3.0%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RIVER STREET TOWER (CONTINUED)																					
	R12 (3)	RESIDENTIAL	LD	W13/F08	29.8	28.8	1	3.4%	YES	80.4	80.4	0.0	0.0%	YES	58	18	57	18	1.7%	0.0%	YES
			LD	W14/F08	29.3	28.2	1.1	3.8%	YES												
F09	R1	RESIDENTIAL	BEDROOM	W1/F09	36.5	35.3	1.2	3.3%	YES	97	96.4	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F09	36.4	35.1	1.3	3.6%	YES	96	95.2	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F09	36.3	35	1.3	3.6%	YES	95.8	95	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F09	36.2	34.8	1.4	3.9%	YES	97.8	96.9	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R5	RESIDENTIAL	BEDROOM	W5/F09	36.1	34.7	1.4	3.9%	YES	98.7	98.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F09	30.1	27.8	2.3	7.6%	YES												
	R6	RESIDENTIAL	BEDROOM	W7/F09	30.2	28.1	2.1	7.0%	YES	94.6	84.4	1.0	10.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W8/F09	30.3	28.3	2	6.6%	YES	94.9	85.7	0.9	9.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W9/F09	30.4	28.4	2	6.6%	YES	96	87.3	0.9	9.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R9	RESIDENTIAL	BEDROOM	W10/F09	34.1	33.2	0.9	2.6%	YES	97.1	96.1	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	BEDROOM	W11/F09	33.6	32.7	0.9	2.7%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R11	RESIDENTIAL	BEDROOM	W12/F09	33.1	32.2	0.9	2.7%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R12 (3)	RESIDENTIAL	LD	W13/F09	32.8	31.8	1	3.0%	YES	99.2	99.2	0.0	0.0%	YES	61	19	60	19	1.6%	0.0%	YES
			LD	W14/F09	32.5	31.4	1.1	3.4%	YES												
F10	R1	RESIDENTIAL	BEDROOM	W1/F10	36	35.1	0.9	2.5%	YES	97.2	96.1	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F10	35.8	34.9	0.9	2.5%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F10	35.7	34.7	1	2.8%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F10	35.5	34.5	1	2.8%	YES	99.1	99.1	0.0	0.0%	YES	64	22	63	22	1.6%	0.0%	YES
			LD	W5/F10	35.4	34.3	1.1	3.1%	YES												
F11	R1	RESIDENTIAL	BEDROOM	W1/F11	36.5	35.6	0.9	2.5%	YES	97.3	96.2	0.1	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F11	36.4	35.4	1	2.7%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F11	36.3	35.3	1	2.8%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F11	36.2	35.2	1	2.8%	YES	99.1	99.1	0.0	0.0%	YES	64	22	63	22	1.6%	0.0%	YES
			LD	W5/F11	36.1	35	1.1	3.0%	YES												
F12	R1	RESIDENTIAL	BEDROOM	W1/F12	36.6	35.7	0.9	2.5%	YES	97.2	96.2	0.1	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F12	36.5	35.5	1	2.7%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F12	36.4	35.4	1	2.7%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F12	36.3	35.3	1	2.8%	YES	99.1	99.1	0.0	0.0%	YES	64	22	63	22	1.6%	0.0%	YES
			LD	W5/F12	36.2	35.1	1.1	3.0%	YES												
RIVER STREET TOWER (CONTINUED)																					
F13	R1	RESIDENTIAL	BEDROOM	W1/F13	36.6	35.7	0.9	2.5%	YES	97.3	96.4	0.1	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F13	36.5	35.6	0.9	2.5%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F13	36.4	35.5	0.9	2.5%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F13	36.3	35.4	0.9	2.5%	YES	99.1	99.1	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F13	36.2	35.2	1	2.8%	YES												
F14	R1	RESIDENTIAL	BEDROOM	W1/F14	36.7	35.8	0.9	2.5%	YES	97.2	96.5	0.1	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F14	36.6	35.7	0.9	2.5%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F14	36.5	35.6	0.9	2.5%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F14	36.4	35.4	1	2.7%	YES	99.1	99.1	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LD	W5/F14	36.3	35.3	1	2.8%	YES												
F15	R1	RESIDENTIAL	BEDROOM	W1/F15	36.8	35.9	0.9	2.4%	YES	97.2	96.8	0.1	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F15	36.6	35.8	0.8	2.2%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F15	36.6	35.6	1	2.7%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F15	36.5	35.5	1	2.7%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F15	36.4	35.4	1	2.7%	YES												
F16	R1	RESIDENTIAL	BEDROOM	W1/F16	36.8	36	0.8	2.2%	YES	97.3	96.9	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F16	36.7	35.8	0.9	2.5%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F16	36.6	35.7	0.9	2.5%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F16	36.5	35.6	0.9	2.5%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F16	36.4	35.5	0.9	2.5%	YES												
F17	R1	RESIDENTIAL	BEDROOM	W1/F17	36.9	36.1	0.8	2.2%	YES	97.4	97.1	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F17	36.8	35.9	0.9	2.4%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F17	36.7	35.8	0.9	2.5%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F17	36.6	35.7	0.9	2.5%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F17	36.5	35.5	1	2.7%	YES												
F18	R1	RESIDENTIAL	BEDROOM	W1/F18	36.9	36.1	0.8	2.2%	YES	97.4	97.1	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F18	36.8	36	0.8	2.2%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F18	36.7	35.9	0.8	2.2%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F18	36.7	35.8	0.9	2.5%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F18	36.6	35.6	1	2.7%	YES												
F19	R1	RESIDENTIAL	BEDROOM	W1/F19	37	36.2	0.8	2.2%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RIVER STREET TOWER (CONTINUED)																					
	R2	RESIDENTIAL	BEDROOM	W2/F19	36.9	36.1	0.8	2.2%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F19	36.8	36	0.8	2.2%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F19	36.7	35.9	0.8	2.2%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F19	36.6	35.7	0.9	2.5%	YES												
F20	R1	RESIDENTIAL	BEDROOM	W1/F20	37.1	36.3	0.8	2.2%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F20	37	36.2	0.8	2.2%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F20	36.9	36.1	0.8	2.2%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F20	36.8	36	0.8	2.2%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F20	36.7	35.8	0.9	2.5%	YES												
F21	R1	RESIDENTIAL	BEDROOM	W1/F21	37.1	36.4	0.7	1.9%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F21	37	36.3	0.7	1.9%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F21	36.9	36.2	0.7	1.9%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R4 (3)	RESIDENTIAL	LD	W4/F21	36.9	36	0.9	2.4%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F21	36.8	35.9	0.9	2.4%	YES												
F22	R1	RESIDENTIAL	BEDROOM	W1/F22	37.2	36.5	0.7	1.9%	YES	97.5	97.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F22	37.1	36.3	0.8	2.2%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F22	37	36.2	0.8	2.2%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F22	36.9	36.1	0.8	2.2%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F22	36.8	36	0.8	2.2%	YES												
F23	R1	RESIDENTIAL	BEDROOM	W1/F23	37.3	36.6	0.7	1.9%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F23	37.2	36.4	0.8	2.2%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F23	37.1	36.3	0.8	2.2%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F23	37	36.2	0.8	2.2%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F23	36.9	36.1	0.8	2.2%	YES												
F24	R1	RESIDENTIAL	BEDROOM	W1/F24	37.3	36.6	0.7	1.9%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F24	37.2	36.5	0.7	1.9%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F24	37.1	36.4	0.7	1.9%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F24	37.1	36.3	0.8	2.2%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F24	37	36.2	0.8	2.2%	YES												
F25	R1	RESIDENTIAL	BEDROOM	W1/F25	37.4	36.7	0.7	1.9%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F25	37.3	36.6	0.7	1.9%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RIVER STREET TOWER (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W3/F25	37.2	36.5	0.7	1.9%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F25	37.1	36.4	0.7	1.9%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F25	37	36.3	0.7	1.9%	YES												
F26	R1	RESIDENTIAL	BEDROOM	W1/F26	37.4	36.8	0.6	1.6%	YES	97.5	97.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F26	37.3	36.7	0.6	1.6%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F26	37.3	36.6	0.7	1.9%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F26	37.2	36.5	0.7	1.9%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F26	37.1	36.4	0.7	1.9%	YES												
F27	R1	RESIDENTIAL	BEDROOM	W1/F27	37.5	36.9	0.6	1.6%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F27	37.4	36.8	0.6	1.6%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F27	37.3	36.7	0.6	1.6%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F27	37.3	36.6	0.7	1.9%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F27	37.2	36.5	0.7	1.9%	YES												
F28	R1	RESIDENTIAL	BEDROOM	W1/F28	37.6	37	0.6	1.6%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F28	37.5	36.9	0.6	1.6%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	BEDROOM	W3/F28	37.4	36.8	0.6	1.6%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F28	37.3	36.7	0.6	1.6%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F28	37.2	36.6	0.6	1.6%	YES												
F29	R1	RESIDENTIAL	BEDROOM	W1/F29	37.6	37.1	0.5	1.3%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F29	37.5	37	0.5	1.3%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F29	37.5	36.9	0.6	1.6%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F29	37.4	36.8	0.6	1.6%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F29	37.3	36.7	0.6	1.6%	YES												
F30	R1	RESIDENTIAL	BEDROOM	W1/F30	37.7	37.1	0.6	1.6%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F30	37.6	37	0.6	1.6%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F30	37.5	37	0.5	1.3%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F30	37.5	36.9	0.6	1.6%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F30	37.4	36.8	0.6	1.6%	YES												
F31	R1	RESIDENTIAL	BEDROOM	W1/F31	37.7	37.2	0.5	1.3%	YES	97.4	97.4	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F31	37.7	37.1	0.6	1.6%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F31	37.6	37.1	0.5	1.3%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RIVER STREET TOWER (CONTINUED)																					
	R4 (3)	RESIDENTIAL	LD	W4/F31	37.5	37	0.5	1.3%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F31	37.5	36.9	0.6	1.6%	YES												
F32	R1	RESIDENTIAL	BEDROOM	W1/F32	37.8	37.3	0.5	1.3%	YES	97.5	97.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F32	37.7	37.2	0.5	1.3%	YES	98	98	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W3/F32	37.7	37.2	0.5	1.3%	YES	97.6	97.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LD	W4/F32	37.6	37.1	0.5	1.3%	YES	99.2	99.2	0.0	0.0%	YES	65	22	64	22	1.5%	0.0%	YES
			LD	W5/F32	37.5	37	0.5	1.3%	YES												
TRANSITION BLOCK 3																					
F00	R1	RESIDENTIAL	LKD	W1/F00	18.2	14.9	3.3	18.1%	YES	65.3	79.5	-1.9	-21.7%	YES	51	11	43	18	15.7%	-63.6%	YES
			LKD	W2/F00	18.4	15.4	3	16.3%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F00	18.9	16.1	2.8	14.8%	YES	77.1	61.1	1.6	20.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W4/F00	19.9	17.6	2.3	11.6%	YES	69.3	94.6	-3.4	-36.6%	YES	54	13	50	22	7.4%	-69.2%	YES
			LKD	W5/F00	20.4	18.3	2.1	10.3%	YES												
	R4	RESIDENTIAL	BEDROOM	W6/F00	21.8	19.5	2.3	10.6%	YES	82.7	77.2	0.6	6.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F01	R1	RESIDENTIAL	BEDROOM	W1/F01	25.5	11.2	14.3	56.1%	NO	97.4	75.9	2.9	22.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W2/F01	25.6	11.4	14.2	55.5%	NO												
	R2	RESIDENTIAL	LKD	W3/F01	25	11.5	13.5	54.0%	NO	97.9	86.9	2.7	11.2%	YES	63	26	34	13	46.0%	50.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W4/F01	25.3	11.6	13.7	54.2%	NO												
			LKD	W5/F01	1.9	0	1.9	100.0%	NO												
	R3	RESIDENTIAL	BEDROOM	W6/F01	2.1	1.8	0.3	14.3%	YES	20.9	11	1.0	47.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	LKD	W7/F01	26.9	12.5	14.4	53.5%	NO	96.1	90.2	1.0	6.1%	YES	67	27	42	17	37.3%	37.0%	YES
			LKD	W8/F01	27.3	13	14.3	52.4%	NO												
			LKD	W9/F01	3.9	3.6	0.3	7.7%	YES												
	R5	RESIDENTIAL	BEDROOM	W10/F01	3.6	1	2.6	72.2%	NO	44.2	5.7	5.3	87.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W11/F01	28.6	15.2	13.4	46.9%	NO	96.2	76.4	5.7	20.6%	NO	69	27	44	18	36.2%	33.3%	YES
			LKD	W12/F01	28.8	15.7	13.1	45.5%	NO												
			LKD	W13/F01	3.9	4.2	-0.3	-7.7%	YES												
	R7	RESIDENTIAL	BEDROOM	W14/F01	7.9	1.5	6.4	81.0%	NO	65.5	46.1	1.8	29.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W15/F01	29.7	17.9	11.8	39.7%	NO	97	71	7.7	26.7%	NO	69	27	50	22	27.5%	18.5%	YES
			LKD	W16/F01	29.9	18.7	11.2	37.5%	NO												
TRANSITION BLOCK 3 (CONTINUED)																					
			LKD	W18/F01	2.9	3.1	-0.2	-6.9%	YES												
	R9	RESIDENTIAL	BEDROOM	W19/F01	10.2	5.9	4.3	42.2%	NO	89.5	89.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F02	R1 (3)	RESIDENTIAL	LKD	W1/F02	25.9	11.3	14.6	56.4%	NO	96.8	86	2.4	11.2%	YES	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F02	26.3	11.3	15	57.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F02	27	11.3	15.7	58.1%	NO	97.2	81.8	2.1	15.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F02	27.3	11.3	16	58.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F02	27.9	11.4	16.5	59.1%	NO	97.8	75.7	3.0	22.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F02	28.3	11.5	16.8	59.4%	NO												
	R4	RESIDENTIAL	LKD	W7/F02	28.9	11.6	17.3	59.9%	NO	98.4	87.1	2.8	11.5%	YES	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F02	29.2	11.7	17.5	59.9%	NO												
			LKD	W9/F02	2.3	0	2.3	100.0%	NO												
	R5	RESIDENTIAL	BEDROOM	W10/F02	2.4	1.8	0.6	25.0%	NO	18.5	9.5	0.9	48.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W11/F02	30.6	12.6	18	58.8%	NO	96	89.5	1.1	6.8%	YES	68	28	42	17	38.2%	39.3%	YES
			LKD	W12/F02	31	13.1	17.9	57.7%	NO												
			LKD	W13/F02	4.5	3.6	0.9	20.0%	YES												
	R7	RESIDENTIAL	BEDROOM	W14/F02	4.1	1	3.1	75.6%	NO	43.3	6.7	4.3	84.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W15/F02	32.1	15.3	16.8	52.3%	NO	94.5	85.5	1.5	9.6%	YES	70	28	44	18	37.1%	35.7%	YES
			LKD	W16/F02	32.3	15.8	16.5	51.1%	NO												
			LKD	W17/F02	0.5	0.2	0.3	60.0%	NO												
	R9	RESIDENTIAL	BEDROOM	W18/F02	8.8	1.1	7.7	87.5%	NO	69.2	46.1	2.8	33.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F02	33	18	15	45.5%	NO	96.1	74.2	3.7	22.8%	NO	70	28	50	22	28.6%	21.4%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W20/F02	33.2	18.8	14.4	43.4%	NO												
			LKD	W22/F02	3.2	3.1	0.1	3.1%	YES												
	R11	RESIDENTIAL	BEDROOM	W23/F02	11.5	6	5.5	47.8%	NO	88.6	88.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F03	R1 (3)	RESIDENTIAL	LKD	W1/F03	26	11.3	14.7	56.5%	NO	96	74.9	5.6	22.1%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F03	26.5	11.4	15.1	57.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F03	27.1	11.4	15.7	57.9%	NO	97.3	81.9	2.1	15.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F03	27.5	11.4	16.1	58.5%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F03	28.1	11.4	16.7	59.4%	NO	97.9	75.7	3.0	22.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F03	28.5	11.5	17	59.6%	NO												
	R4	RESIDENTIAL	LKD	W7/F03	29	11.7	17.3	59.7%	NO	99.2	87.9	2.7	11.4%	YES	64	27	34	13	46.9%	51.9%	YES
TRANSITION BLOCK 3 (CONTINUED)																					
			LKD	W8/F03	29.4	11.8	17.6	59.9%	NO												
			LKD	W9/F03	2.5	0.2	2.3	92.0%	NO												
	R5	RESIDENTIAL	BEDROOM	W10/F03	2.4	1.8	0.6	25.0%	NO	18.5	9.6	0.9	47.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W11/F03	30.8	12.7	18.1	58.8%	NO	96	89.5	1.1	6.8%	YES	68	28	42	17	38.2%	39.3%	YES
			LKD	W12/F03	31.2	13.1	18.1	58.0%	NO												
			LKD	W13/F03	4.6	3.6	1	21.7%	NO												
	R7	RESIDENTIAL	BEDROOM	W14/F03	4.1	1	3.1	75.6%	NO	43.3	6.7	4.3	84.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W15/F03	32.3	15.4	16.9	52.3%	NO	94.5	85.7	1.5	9.3%	YES	70	28	44	18	37.1%	35.7%	YES
			LKD	W16/F03	32.5	15.9	16.6	51.1%	NO												
			LKD	W17/F03	0.5	0.2	0.3	60.0%	NO												
	R9	RESIDENTIAL	BEDROOM	W18/F03	8.9	1	7.9	88.8%	NO	74.1	50.3	2.9	32.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F03	33.2	18.1	15.1	45.5%	NO	96	73.4	3.8	23.5%	NO	70	28	50	22	28.6%	21.4%	YES
			LKD	W20/F03	33.4	18.8	14.6	43.7%	NO												
			LKD	W22/F03	3.2	3.1	0.1	3.1%	YES												
	R11	RESIDENTIAL	BEDROOM	W23/F03	11.6	6	5.6	48.3%	NO	94.3	94.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F04	R1 (3)	RESIDENTIAL	LKD	W1/F04	26.1	11.4	14.7	56.3%	NO	96	74.6	5.6	22.3%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F04	26.5	11.4	15.1	57.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F04	27.2	11.5	15.7	57.7%	NO	97.3	81.6	2.1	16.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F04	27.6	11.5	16.1	58.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F04	28.2	11.5	16.7	59.2%	NO	97.9	75.7	3.0	22.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F04	28.5	11.6	16.9	59.3%	NO												
	R4	RESIDENTIAL	LKD	W7/F04	29.1	11.7	17.4	59.8%	NO	99.3	90.5	2.1	8.8%	YES	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F04	29.4	11.9	17.5	59.5%	NO												
			LKD	W9/F04	3.1	0.8	2.3	74.2%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R5	RESIDENTIAL	BEDROOM	W10/F04	2.5	1.9	0.6	24.0%	NO	23.2	14	0.9	39.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	LKD	W11/F04	30.9	12.7	18.2	58.9%	NO	96	89.4	1.2	6.9%	YES	68	28	42	17	38.2%	39.3%	YES
			LKD	W12/F04	31.3	13.2	18.1	57.8%	NO												
			LKD	W13/F04	4.3	3.4	0.9	20.9%	NO												
	R7	RESIDENTIAL	BEDROOM	W14/F04	3.2	0.7	2.5	78.1%	NO	43.1	6.6	4.3	84.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W15/F04	32.4	15.5	16.9	52.2%	NO	94.5	86	1.4	8.9%	YES	70	28	44	18	37.1%	35.7%	YES
			LKD	W16/F04	32.6	16	16.6	50.9%	NO												
TRANSITION BLOCK 3 (CONTINUED)																					
			LKD	W17/F04	0.5	0.2	0.3	60.0%	NO												
	R9	RESIDENTIAL	BEDROOM	W18/F04	7.2	0.8	6.4	88.9%	NO	73.9	48.7	3.1	34.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R10	RESIDENTIAL	LKD	W19/F04	33.3	18.2	15.1	45.3%	NO	95.9	72.3	4.0	24.7%	NO	70	28	50	22	28.6%	21.4%	YES
			LKD	W20/F04	33.5	18.9	14.6	43.6%	NO												
			LKD	W22/F04	3	3	0	0.0%	YES												
	R11	RESIDENTIAL	BEDROOM	W23/F04	9.1	4.6	4.5	49.5%	NO	93.9	93.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F05	R1 (3)	RESIDENTIAL	LKD	W1/F05	26.1	11.4	14.7	56.3%	NO	96.4	68.4	6.5	29.0%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F05	26.6	11.5	15.1	56.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F05	27.3	11.5	15.8	57.9%	NO	97.5	72.6	3.4	25.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F05	27.6	11.5	16.1	58.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F05	28.2	11.5	16.7	59.2%	NO	97.4	70.5	3.7	27.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F05	28.6	11.6	17	59.4%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F05	29.1	11.8	17.3	59.5%	NO	96.6	60.7	8.5	37.2%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F05	29.5	11.9	17.6	59.7%	NO												
F06	R1 (3)	RESIDENTIAL	LKD	W1/F06	26.1	11.4	14.7	56.3%	NO	96.4	68.3	6.6	29.2%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F06	26.6	11.5	15.1	56.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F06	27.3	11.5	15.8	57.9%	NO	97.5	72.8	3.4	25.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F06	27.6	11.5	16.1	58.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F06	28.2	11.6	16.6	58.9%	NO	97.4	70.7	3.6	27.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F06	28.6	11.7	16.9	59.1%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F06	29.2	11.8	17.4	59.6%	NO	96.6	60.7	8.5	37.2%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F06	29.5	11.9	17.6	59.7%	NO												
F07	R1 (3)	RESIDENTIAL	LKD	W1/F07	26.2	11.5	14.7	56.1%	NO	96.4	68.4	6.6	29.1%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F07	26.6	11.5	15.1	56.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F07	27.3	11.6	15.7	57.5%	NO	97.5	72.5	3.4	25.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F07	27.6	11.6	16	58.0%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F07	28.2	11.6	16.6	58.9%	NO	97.4	70.7	3.6	27.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			BEDROOM	W6/F07	28.6	11.7	16.9	59.1%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F07	29.2	11.8	17.4	59.6%	NO	96.6	60.7	8.5	37.2%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F07	29.5	12	17.5	59.3%	NO												
F08	R1 (3)	RESIDENTIAL	LKD	W1/F08	26.2	11.5	14.7	56.1%	NO	96.4	68.3	6.6	29.1%	NO	60	25	35	13	41.7%	48.0%	YES
TRANSITION BLOCK 3 (CONTINUED)																					
			LKD	W2/F08	26.6	11.6	15	56.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F08	27.3	11.6	15.7	57.5%	NO	97.5	72.7	3.4	25.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F08	27.7	11.6	16.1	58.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F08	28.3	11.6	16.7	59.0%	NO	97.4	70.8	3.6	27.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F08	28.7	11.7	17	59.2%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F08	29.2	11.9	17.3	59.2%	NO	96.6	60.9	8.5	37.0%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F08	29.6	12	17.6	59.5%	NO												
F09	R1 (3)	RESIDENTIAL	LKD	W1/F09	26.2	11.5	14.7	56.1%	NO	96.4	68.4	6.5	29.0%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F09	26.6	11.6	15	56.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F09	27.3	11.6	15.7	57.5%	NO	97.5	73	3.4	25.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F09	27.7	11.6	16.1	58.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F09	28.3	11.7	16.6	58.7%	NO	97.4	70.6	3.7	27.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F09	28.7	11.8	16.9	58.9%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F09	29.2	11.9	17.3	59.2%	NO	96.6	61.1	8.4	36.7%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F09	29.6	12	17.6	59.5%	NO												
F10	R1 (3)	RESIDENTIAL	LKD	W1/F10	26.2	11.6	14.6	55.7%	NO	96.4	68.9	6.4	28.5%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F10	26.7	11.6	15.1	56.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F10	27.4	11.7	15.7	57.3%	NO	97.5	73.1	3.3	25.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F10	27.7	11.7	16	57.8%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F10	28.3	11.7	16.6	58.7%	NO	97.4	71	3.6	27.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F10	28.7	11.8	16.9	58.9%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F10	29.2	11.9	17.3	59.2%	NO	96.6	61.2	8.4	36.6%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F10	29.6	12	17.6	59.5%	NO												
F11	R1 (3)	RESIDENTIAL	LKD	W1/F11	26.2	11.6	14.6	55.7%	NO	96.4	69.1	6.4	28.3%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F11	26.7	11.7	15	56.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F11	27.4	11.7	15.7	57.3%	NO	97.5	73.2	3.3	24.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F11	27.7	11.7	16	57.8%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F11	28.3	11.7	16.6	58.7%	NO	97.4	70.7	3.6	27.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F11	28.7	11.8	16.9	58.9%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F11	29.3	12	17.3	59.0%	NO	96.6	61.3	8.4	36.6%	NO	64	27	34	13	46.9%	51.9%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W8/F11	29.6	12.1	17.5	59.1%	NO												
TRANSITION BLOCK 3 (CONTINUED)																					
F12	R1 (3)	RESIDENTIAL	LKD	W1/F12	26.3	11.7	14.6	55.5%	NO	96.4	69.3	6.3	28.1%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F12	26.7	11.7	15	56.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F12	27.4	11.7	15.7	57.3%	NO	97.5	73.2	3.3	24.9%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F12	27.7	11.7	16	57.8%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F12	28.3	11.8	16.5	58.3%	NO	97.4	71.1	3.6	27.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F12	28.7	11.9	16.8	58.5%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F12	29.3	12	17.3	59.0%	NO	96.6	61.3	8.4	36.5%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F12	29.6	12.1	17.5	59.1%	NO												
F13	R1 (3)	RESIDENTIAL	LKD	W1/F13	26.3	11.7	14.6	55.5%	NO	96.4	69.3	6.3	28.1%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F13	26.7	11.8	14.9	55.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F13	27.4	11.8	15.6	56.9%	NO	97.5	73.1	3.3	25.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F13	27.7	11.8	15.9	57.4%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F13	28.3	11.8	16.5	58.3%	NO	97.4	71	3.6	27.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F13	28.7	11.9	16.8	58.5%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F13	29.3	12	17.3	59.0%	NO	96.6	61.3	8.4	36.5%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F13	29.6	12.2	17.4	58.8%	NO												
F14	R1 (3)	RESIDENTIAL	LKD	W1/F14	26.3	11.7	14.6	55.5%	NO	96.4	69.3	6.3	28.1%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F14	26.7	11.8	14.9	55.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F14	27.4	11.8	15.6	56.9%	NO	97.5	73.1	3.3	25.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F14	27.8	11.8	16	57.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F14	28.4	11.8	16.6	58.5%	NO	97.4	70.8	3.6	27.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F14	28.8	11.9	16.9	58.7%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F14	29.3	12.1	17.2	58.7%	NO	96.6	61.2	8.4	36.6%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F14	29.7	12.2	17.5	58.9%	NO												
F15	R1 (3)	RESIDENTIAL	LKD	W1/F15	26.3	11.8	14.5	55.1%	NO	96.4	69.1	6.4	28.3%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F15	26.7	11.8	14.9	55.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F15	27.4	11.8	15.6	56.9%	NO	97.5	72.9	3.4	25.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F15	27.8	11.8	16	57.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F15	28.4	11.9	16.5	58.1%	NO	97.4	70.9	3.6	27.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F15	28.8	12	16.8	58.3%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F15	29.3	12.1	17.2	58.7%	NO	96.6	61.1	8.4	36.7%	NO	64	27	34	13	46.9%	51.9%	YES
TRANSITION BLOCK 3 (CONTINUED)																					
			LKD	W8/F15	29.7	12.2	17.5	58.9%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F16	R1 (3)	RESIDENTIAL	LKD	W1/F16	26.3	11.8	14.5	55.1%	NO	96.4	68.7	6.5	28.8%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F16	26.8	11.9	14.9	55.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F16	27.5	11.9	15.6	56.7%	NO	97.5	72.7	3.4	25.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F16	27.8	11.9	15.9	57.2%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F16	28.4	11.9	16.5	58.1%	NO	97.4	70.8	3.6	27.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F16	28.8	12	16.8	58.3%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F16	29.4	12.1	17.3	58.8%	NO	96.6	60.9	8.5	37.0%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F16	29.7	12.3	17.4	58.6%	NO												
F17	R1 (3)	RESIDENTIAL	LKD	W1/F17	26.4	11.8	14.6	55.3%	NO	96.4	68.5	6.5	28.9%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F17	26.8	11.9	14.9	55.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F17	27.5	11.9	15.6	56.7%	NO	97.5	72.7	3.4	25.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F17	27.8	11.9	15.9	57.2%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F17	28.4	11.9	16.5	58.1%	NO	97.4	70.7	3.7	27.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F17	28.8	12	16.8	58.3%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F17	29.4	12.2	17.2	58.5%	NO	96.6	61	8.5	36.9%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F17	29.7	12.3	17.4	58.6%	NO												
F18	R1 (3)	RESIDENTIAL	LKD	W1/F18	26.4	11.9	14.5	54.9%	NO	96.4	68.6	6.5	28.9%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F18	26.8	11.9	14.9	55.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F18	27.5	12	15.5	56.4%	NO	97.5	72.8	3.4	25.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F18	27.9	11.9	16	57.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F18	28.5	12	16.5	57.9%	NO	97.4	70.9	3.6	27.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F18	28.8	12.1	16.7	58.0%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F18	29.4	12.2	17.2	58.5%	NO	96.6	61.1	8.4	36.8%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F18	29.7	12.3	17.4	58.6%	NO												
F19	R1 (3)	RESIDENTIAL	LKD	W1/F19	26.4	11.9	14.5	54.9%	NO	96.4	68.5	6.5	28.9%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F19	26.8	12	14.8	55.2%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F19	27.5	12	15.5	56.4%	NO	97.5	73	3.3	25.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F19	27.9	12	15.9	57.0%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F19	28.5	12	16.5	57.9%	NO	97.4	71	3.6	27.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F19	28.9	12.1	16.8	58.1%	NO												
TRANSITION BLOCK 3 (CONTINUED)																					
	R4 (3)	RESIDENTIAL	LKD	W7/F19	29.4	12.3	17.1	58.2%	NO	96.6	61.2	8.4	36.6%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F19	29.8	12.4	17.4	58.4%	NO												
F20	R1 (3)	RESIDENTIAL	LKD	W1/F20	26.4	12	14.4	54.5%	NO	96.4	69.1	6.4	28.3%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F20	26.9	12.1	14.8	55.0%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	BEDROOM	W3/F20	27.6	12.1	15.5	56.2%	NO	97.5	73.5	3.3	24.7%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F20	27.9	12.1	15.8	56.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F20	28.5	12.1	16.4	57.5%	NO	97.4	70.7	3.6	27.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F20	28.9	12.2	16.7	57.8%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F20	29.5	12.3	17.2	58.3%	NO	96.6	61.3	8.4	36.6%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F20	29.8	12.4	17.4	58.4%	NO												
F21	R1 (3)	RESIDENTIAL	LKD	W1/F21	26.5	12.1	14.4	54.3%	NO	96.4	69.3	6.3	28.1%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F21	26.9	12.1	14.8	55.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F21	27.6	12.2	15.4	55.8%	NO	97.5	73.2	3.3	25.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F21	27.9	12.1	15.8	56.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F21	28.5	12.2	16.3	57.2%	NO	97.4	70.8	3.6	27.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F21	28.9	12.3	16.6	57.4%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F21	29.5	12.4	17.1	58.0%	NO	96.6	61.3	8.4	36.5%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F21	29.8	12.5	17.3	58.1%	NO												
F22	R1 (3)	RESIDENTIAL	LKD	W1/F22	26.5	12.2	14.3	54.0%	NO	96.4	69.2	6.4	28.2%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F22	26.9	12.2	14.7	54.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F22	27.6	12.2	15.4	55.8%	NO	97.5	73.2	3.3	25.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F22	28	12.2	15.8	56.4%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F22	28.6	12.3	16.3	57.0%	NO	97.4	71	3.6	27.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F22	29	12.3	16.7	57.6%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F22	29.5	12.5	17	57.6%	NO	96.6	61.3	8.4	36.5%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F22	29.9	12.6	17.3	57.9%	NO												
F23	R1 (3)	RESIDENTIAL	LKD	W1/F23	26.5	12.3	14.2	53.6%	NO	96.4	69.1	6.4	28.3%	NO	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F23	27	12.3	14.7	54.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F23	27.7	12.3	15.4	55.6%	NO	97.5	73.1	3.3	25.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F23	28	12.3	15.7	56.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F23	28.6	12.3	16.3	57.0%	NO	97.4	71	3.6	27.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRANSITION BLOCK 3 (CONTINUED)																					
			BEDROOM	W6/F23	29	12.4	16.6	57.2%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F23	29.6	12.5	17.1	57.8%	NO	96.6	61.3	8.4	36.6%	NO	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F23	29.9	12.7	17.2	57.5%	NO												
F24	R1	RESIDENTIAL	LKD	W1/F24	26.6	12.3	14.3	53.8%	NO	92.5	78.7	1.9	14.9%	YES	60	25	35	13	41.7%	48.0%	YES
			LKD	W2/F24	27	12.4	14.6	54.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F24	27.7	12.4	15.3	55.2%	NO	95.2	83	1.1	12.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F24	28.1	12.4	15.7	55.9%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R3	RESIDENTIAL	BEDROOM	W5/F24	28.6	12.4	16.2	56.6%	NO	96.4	82.3	1.3	14.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F24	29	12.5	16.5	56.9%	NO												
	R4	RESIDENTIAL	LKD	W7/F24	29.6	12.6	17	57.4%	NO	94.7	76.9	2.3	18.8%	YES	64	27	34	13	46.9%	51.9%	YES
			LKD	W8/F24	29.9	12.7	17.2	57.5%	NO												
F25	R1	RESIDENTIAL	LKD	W1/F25	12.8	12.8	0	0.0%	YES	99.6	98	1.0	1.6%	YES	61	25	36	13	41.0%	48.0%	YES
			LKD	W2/F25	12.6	12.6	0	0.0%	YES												
			LKD	W3/F25	12.4	12.4	0	0.0%	YES												
			LKD	W4/F25	12.2	12.2	0	0.0%	YES												
			LKD	W5/F25	2.1	1.1	1	47.6%	NO												
			LKD	W8/F25	0.7	0.7	0	0.0%	YES												
			LKD	W9/F25	26.6	12.4	14.2	53.4%	NO												
			LKD	W10/F25	27.1	12.5	14.6	53.9%	NO												
	R2	RESIDENTIAL	LKD	W15/F25	29.6	12.7	16.9	57.1%	NO	99.8	99.5	0.2	0.2%	YES	78	27	57	18	26.9%	33.3%	YES
			LKD	W16/F25	30	12.8	17.2	57.3%	NO												
			LKD	W17/F25	2.3	1.5	0.8	34.8%	NO												
			LKD	W18/F25	3.2	1.1	2.1	65.6%	NO												
			LKD	W19/F25	35	32.7	2.3	6.6%	YES												
			LKD	W20/F25	35	32.8	2.2	6.3%	YES												
			LKD	W21/F25	35	33	2	5.7%	YES												
			LKD	W22/F25	35	33.1	1.9	5.4%	YES												
TRANSITION BLOCK 2																					
F00	R1	RESIDENTIAL	LKD	W1/F00	11.7	9.5	2.2	18.8%	YES	91.2	88.1	0.9	3.4%	YES	42	17	37	15	11.9%	11.8%	YES
			LKD	W2/F00	6.4	4.3	2.1	32.8%	NO												
TRANSITION BLOCK 2 (CONTINUED)																					
			LKD	W4/F00	11.3	9	2.3	20.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F00	14.3	12.1	2.2	15.4%	YES	50.1	45.6	0.4	9.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	BEDROOM	W5/F00	10.1	7.8	2.3	22.8%	NO	35.7	32.9	0.2	7.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	LKD	W6/F00	4	2	2	50.0%	NO	30.7	28.9	0.6	5.9%	YES	29	6	25	6	13.8%	0.0%	YES
			LKD	W7/F00	8.9	6.8	2.1	23.6%	NO												
	R5	RESIDENTIAL	LKD	W8/F00	8.1	6.2	1.9	23.5%	NO	18	12.3	1.8	31.8%	NO	26	4	21	4	19.2%	0.0%	YES
			LKD	W9/F00	2.8	1.4	1.4	50.0%	NO												
	R6	RESIDENTIAL	BEDROOM	W10/F00	7.4	5.9	1.5	20.3%	NO	22.7	19.1	0.3	15.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	LKD	W11/F00	6.5	5.5	1	15.4%	YES	30.6	20	3.4	34.6%	NO	24	5	22	4	8.3%	20.0%	YES
			LKD	W12/F00	1.4	1.1	0.3	21.4%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R8	RESIDENTIAL	BEDROOM	W13/F00	4.5	4.1	0.4	8.9%	YES	33.7	32	0.2	5.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F01	R1	RESIDENTIAL	BEDROOM	W1/F01	13.1	10	3.1	23.7%	NO	73.9	70.4	0.5	4.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W3/F01	12.7	9.5	3.2	25.2%	NO												
	R2	RESIDENTIAL	LKD	W2/F01	0.3	0.3	0	0.0%	YES	0.5	0.3	0.0	45.3%	NO	1	0	1	0	0.0%	0.0%	YES
	R3	RESIDENTIAL	BEDROOM	W4/F01	0.2	0.1	0.1	50.0%	NO	18.6	8.7	1.1	53.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W5/F01	0	0	0	-	YES	71.3	69.3	0.3	2.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F01	11.3	8	3.3	29.2%	NO												
			BEDROOM	W7/F01	11	7.9	3.1	28.2%	NO												
	R5	RESIDENTIAL	BEDROOM	W8/F01	10.2	7.4	2.8	27.5%	NO	45	26.3	3.1	41.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W9/F01	9.5	7.2	2.3	24.2%	NO												
			BEDROOM	W10/F01	0.1	0.1	0	0.0%	YES												
	R6	RESIDENTIAL	BEDROOM	W11/F01	0.4	0.4	0	0.0%	YES	9.3	9.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W12/F01	8.1	6.6	1.5	18.5%	YES	45.4	21.6	3.5	52.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W13/F01	6	5.6	0.4	6.7%	YES												
			BEDROOM	W14/F01	0.1	0	0.1	100.0%	NO												
	R8	RESIDENTIAL	BEDROOM	W15/F01	0	0	0	-	YES	4.2	4.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F02	R1	RESIDENTIAL	BEDROOM	W1/F02	22.2	18.1	4.1	18.5%	YES	97.4	94.7	0.4	2.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W2/F02	21.1	17.3	3.8	18.0%	YES												
			BEDROOM	W3/F02	19.8	15.9	3.9	19.7%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F02	18	14.1	3.9	21.7%	NO	97.1	91	0.5	6.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W5/F02	17.6	13.6	4	22.7%	NO												
TRANSITION BLOCK 2 (CONTINUED)																					
	R3	RESIDENTIAL	LKD	W6/F02	14.5	10.3	4.2	29.0%	NO	87.3	83.9	1.1	3.8%	YES	42	16	35	16	16.7%	0.0%	YES
			LKD	W7/F02	15.6	11.4	4.2	26.9%	NO												
			LKD	W8/F02	16.3	12.2	4.1	25.2%	NO												
			LKD	W9/F02	14.2	9.8	4.4	31.0%	NO												
	R4	RESIDENTIAL	BEDROOM	W10/F02	0.2	0.1	0.1	50.0%	NO	19.9	5.6	1.7	72.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	LKD	W11/F02	0.4	0.4	0	0.0%	YES	79.2	74.2	0.8	6.2%	YES	34	10	26	10	23.5%	0.0%	YES
			LKD	W12/F02	13.9	9.1	4.8	34.5%	NO												
			LKD	W13/F02	13.8	9.1	4.7	34.1%	NO												
	R6	RESIDENTIAL	LKD	W14/F02	13	8.9	4.1	31.5%	NO	54.9	37.6	2.5	31.6%	NO	36	9	27	9	25.0%	0.0%	YES
			LKD	W15/F02	12.2	8.7	3.5	28.7%	NO												
			LKD	W16/F02	0	0	0	-	YES												
	R7	RESIDENTIAL	BEDROOM	W17/F02	0.5	0.5	0	0.0%	YES	7.1	7.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W18/F02	9.8	8	1.8	18.4%	YES	60.2	28.9	3.6	52.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			BEDROOM	W19/F02	0.1	0.1	0	0.0%	YES												
	R9	RESIDENTIAL	LKD	W20/F02	0.9	0.4	0.5	55.6%	NO	56.9	40.3	4.6	29.3%	NO	12	6	11	5	8.3%	16.7%	YES
			LKD	W21/F02	0	0	0	-	YES												
			LKD	W22/F02	3.2	2.6	0.6	18.8%	YES												
	R10	RESIDENTIAL	BEDROOM	W23/F02	2.8	2.3	0.5	17.9%	YES	40.2	30.8	0.9	23.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W24/F02	6.9	6.7	0.2	2.9%	YES												
F03	R1	RESIDENTIAL	BEDROOM	W1/F03	18.8	14.7	4.1	21.8%	NO	97.4	95	0.3	2.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W2/F03	18	14	4	22.2%	NO												
			BEDROOM	W3/F03	17	13	4	23.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F03	15.7	11.6	4.1	26.1%	NO	98	93.5	0.4	4.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W5/F03	15.4	11.1	4.3	27.9%	NO												
	R3	RESIDENTIAL	LKD	W6/F03	13.3	8.8	4.5	33.8%	NO	95.1	92.8	0.7	2.4%	YES	30	17	22	15	26.7%	11.8%	NO
			LKD	W7/F03	14.1	9.6	4.5	31.9%	NO												
			LKD	W8/F03	14.5	10.1	4.4	30.3%	NO												
			LKD	W9/F03	13.2	8.5	4.7	35.6%	NO												
	R4	RESIDENTIAL	BEDROOM	W10/F03	0.4	0.3	0.1	25.0%	NO	17.2	5.4	1.4	68.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	LKD	W11/F03	0.4	0.4	0	0.0%	YES	93.7	81.2	2.1	13.3%	YES	37	14	25	12	32.4%	14.3%	YES
			LKD	W12/F03	16.9	10	6.9	40.8%	NO												
TRANSITION BLOCK 2 (CONTINUED)																					
			LKD	W13/F03	17.1	10.4	6.7	39.2%	NO												
	R6	RESIDENTIAL	LKD	W14/F03	16.5	10.7	5.8	35.2%	NO	86.6	58	4.7	33.0%	NO	42	15	28	11	33.3%	26.7%	YES
			LKD	W15/F03	15.6	10.5	5.1	32.7%	NO												
			LKD	W16/F03	0	0	0	-	YES												
	R7	RESIDENTIAL	BEDROOM	W17/F03	0.4	0.4	0	0.0%	YES	6.2	6.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	BEDROOM	W18/F03	11.5	9.8	1.7	14.8%	YES	72.4	37.2	4.1	48.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W19/F03	0.1	0.1	0	0.0%	YES												
	R9	RESIDENTIAL	LKD	W20/F03	0.7	0.5	0.2	28.6%	NO	54.2	35.6	5.2	34.3%	NO	12	6	10	5	16.7%	16.7%	YES
			LKD	W21/F03	0	0	0	-	YES												
			LKD	W22/F03	3.1	2.4	0.7	22.6%	NO												
	R10	RESIDENTIAL	BEDROOM	W23/F03	2.6	2.1	0.5	19.2%	YES	40.2	30.1	0.9	25.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W24/F03	7.9	7.7	0.2	2.5%	YES												
F04	R1	RESIDENTIAL	BEDROOM	W1/F04	6	4.7	1.3	21.7%	NO	97.1	92.2	0.7	5.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W2/F04	5.7	4.4	1.3	22.8%	NO												
			BEDROOM	W3/F04	5.4	4.1	1.3	24.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W4/F04	5	3.6	1.4	28.0%	NO	97.8	91.6	0.5	6.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			BEDROOM	W5/F04	4.9	3.5	1.4	28.6%	NO												
	R3	RESIDENTIAL	LKD	W6/F04	4.2	2.6	1.6	38.1%	NO	93.8	88.5	1.7	5.6%	YES	9	9	7	7	22.2%	22.2%	YES
			LKD	W7/F04	4.4	2.9	1.5	34.1%	NO												
			LKD	W8/F04	4.6	3.1	1.5	32.6%	NO												
			LKD	W9/F04	4.2	2.6	1.6	38.1%	NO												
	R4	RESIDENTIAL	BEDROOM	W10/F04	2.5	2	0.5	20.0%	YES	41.2	29.5	1.1	28.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W11/F04	8.8	8.6	0.2	2.3%	YES												
F05	R1 (3)	RESIDENTIAL	LKD	W1/F05	32.4	23.6	8.8	27.2%	NO	96.4	88.4	1.9	8.3%	YES	64	26	51	23	20.3%	11.5%	YES
			LKD	W2/F05	32.3	23.3	9	27.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F05	32.1	22.7	9.4	29.3%	NO	98.1	94.9	0.4	3.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F05	31.9	22.4	9.5	29.8%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F05	31.6	21.8	9.8	31.0%	NO	98	92.8	0.7	5.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F05	31.4	21.4	10	31.8%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F05	31.2	20.8	10.4	33.3%	NO	96.9	86	2.5	11.2%	YES	62	26	47	21	24.2%	19.2%	YES
			LKD	W8/F05	31	20.6	10.4	33.5%	NO												
TRANSITION BLOCK 2 (CONTINUED)																					
F06	R1 (3)	RESIDENTIAL	LKD	W1/F06	32.5	23.7	8.8	27.1%	NO	96.4	88.4	1.9	8.3%	YES	64	26	51	23	20.3%	11.5%	YES
			LKD	W2/F06	32.3	23.4	8.9	27.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F06	32.1	22.8	9.3	29.0%	NO	98.1	94.8	0.4	3.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F06	31.9	22.4	9.5	29.8%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F06	31.7	21.9	9.8	30.9%	NO	90.3	80.9	1.3	10.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4 (3)	RESIDENTIAL	LKD	W7/F06	31.2	20.9	10.3	33.0%	NO	96.8	86	2.6	11.2%	YES	62	26	47	21	24.2%	19.2%	YES
			LKD	W8/F06	31.1	20.6	10.5	33.8%	NO												
F07	R1 (3)	RESIDENTIAL	LKD	W1/F07	32.5	23.8	8.7	26.8%	NO	96.4	88.5	1.9	8.2%	YES	64	26	51	23	20.3%	11.5%	YES
			LKD	W2/F07	32.4	23.5	8.9	27.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F07	32.2	22.9	9.3	28.9%	NO	98.1	94.9	0.4	3.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F07	32	22.5	9.5	29.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F07	31.8	22	9.8	30.8%	NO	98	92.8	0.7	5.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F07	31.6	21.6	10	31.6%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F07 (dup.)	31.3	21	10.3	32.9%	NO	96.8	86	2.5	11.2%	YES	62	26	47	21	24.2%	19.2%	YES
			LKD	W8/F07 (dup.)	31.1	20.7	10.4	33.4%	NO												
	R5 (3)	RESIDENTIAL	LKD	W7/F07	31.3	21	10.3	32.9%	NO	96.9	86.1	2.5	11.1%	YES	62	26	47	21	24.2%	19.2%	YES
			LKD	W8/F07	31.1	20.7	10.4	33.4%	NO												
F08	R1 (3)	RESIDENTIAL	LKD	W1/F08	32.6	23.9	8.7	26.7%	NO	96.4	88.7	1.8	8.1%	YES	64	26	51	23	20.3%	11.5%	YES
			LKD	W2/F08	32.5	23.6	8.9	27.4%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R2	RESIDENTIAL	BEDROOM	W3/F08	32.3	23	9.3	28.8%	NO	98.1	95	0.4	3.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F08	32.1	22.6	9.5	29.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F08	31.8	22	9.8	30.8%	NO	98	92.8	0.7	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F08	31.6	21.7	9.9	31.3%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F08	31.3	21.1	10.2	32.6%	NO	96.9	86.2	2.5	11.0%	YES	62	26	47	21	24.2%	19.2%	YES
			LKD	W8/F08	31.2	20.8	10.4	33.3%	NO												
F09	R1 (3)	RESIDENTIAL	LKD	W1/F09	32.7	24	8.7	26.6%	NO	96.4	88.9	1.8	7.9%	YES	64	26	51	23	20.3%	11.5%	YES
			LKD	W2/F09	32.5	23.7	8.8	27.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F09	32.3	23.1	9.2	28.5%	NO	98.1	95.1	0.4	3.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F09	32.1	22.7	9.4	29.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F09	31.9	22.1	9.8	30.7%	NO	98	92.8	0.7	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F09	31.7	21.8	9.9	31.2%	NO												
TRANSITION BLOCK 2 (CONTINUED)																					
	R4 (3)	RESIDENTIAL	LKD	W7/F09	31.4	21.2	10.2	32.5%	NO	96.9	86.4	2.5	10.9%	YES	62	26	47	21	24.2%	19.2%	YES
			LKD	W8/F09	31.2	20.9	10.3	33.0%	NO												
F10	R1 (3)	RESIDENTIAL	LKD	W1/F10	32.7	24.1	8.6	26.3%	NO	96.4	89	1.8	7.7%	YES	64	26	51	23	20.3%	11.5%	YES
			LKD	W2/F10	32.6	23.8	8.8	27.0%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F10	32.4	23.2	9.2	28.4%	NO	98.1	95.1	0.4	3.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F10	32.2	22.8	9.4	29.2%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F10	31.9	22.2	9.7	30.4%	NO	98	92.8	0.7	5.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F10	31.7	21.8	9.9	31.2%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F10	31.4	21.3	10.1	32.2%	NO	96.9	86.3	2.5	10.9%	YES	63	26	48	21	23.8%	19.2%	YES
			LKD	W8/F10	31.3	21	10.3	32.9%	NO												
F11	R1 (3)	RESIDENTIAL	LKD	W1/F11	32.8	24.2	8.6	26.2%	NO	96.4	89.2	1.7	7.5%	YES	64	26	51	23	20.3%	11.5%	YES
			LKD	W2/F11	32.7	23.9	8.8	26.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F11	32.5	23.3	9.2	28.3%	NO	98.2	95.1	0.4	3.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F11	32.3	22.9	9.4	29.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F11	32	22.3	9.7	30.3%	NO	98	92.8	0.7	5.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F11	31.8	21.9	9.9	31.1%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F11	31.5	21.3	10.2	32.4%	NO	96.8	86.2	2.5	11.0%	YES	63	26	48	21	23.8%	19.2%	YES
			LKD	W8/F11	31.3	21.1	10.2	32.6%	NO												
F12	R1 (3)	RESIDENTIAL	LKD	W1/F12	32.9	24.3	8.6	26.1%	NO	96.4	89.2	1.7	7.5%	YES	64	26	51	23	20.3%	11.5%	YES
			LKD	W2/F12	32.7	24	8.7	26.6%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F12	32.5	23.4	9.1	28.0%	NO	98.2	95	0.4	3.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F12	32.3	23	9.3	28.8%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R3	RESIDENTIAL	BEDROOM	W5/F12	32.1	22.4	9.7	30.2%	NO	98.1	92.8	0.7	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F12	31.9	22	9.9	31.0%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F12	31.6	21.4	10.2	32.3%	NO	96.8	86.2	2.5	11.0%	YES	63	26	48	21	23.8%	19.2%	YES
			LKD	W8/F12	31.4	21.2	10.2	32.5%	NO												
F13	R1 (3)	RESIDENTIAL	LKD	W1/F13	33	24.4	8.6	26.1%	NO	96.4	89	1.8	7.7%	YES	64	26	51	23	20.3%	11.5%	YES
			LKD	W2/F13	32.8	24.1	8.7	26.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F13	32.6	23.5	9.1	27.9%	NO	98.2	95	0.4	3.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F13	32.4	23.1	9.3	28.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F13	32.1	22.5	9.6	29.9%	NO	98.1	92.9	0.7	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRANSITION BLOCK 2 (CONTINUED)																					
			BEDROOM	W6/F13	31.9	22.2	9.7	30.4%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F13	31.6	21.6	10	31.6%	NO	96.9	86.2	2.5	11.0%	YES	63	26	47	20	25.4%	23.1%	YES
			LKD	W8/F13	31.5	21.3	10.2	32.4%	NO												
F14	R1 (3)	RESIDENTIAL	LKD	W1/F14	33.1	24.5	8.6	26.0%	NO	96.4	88.8	1.8	7.9%	YES	65	26	52	23	20.0%	11.5%	YES
			LKD	W2/F14	32.9	24.2	8.7	26.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F14	32.7	23.6	9.1	27.8%	NO	98.2	95	0.4	3.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F14	32.5	23.2	9.3	28.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F14	32.2	22.7	9.5	29.5%	NO	98.1	92.9	0.7	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F14	32	22.3	9.7	30.3%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F14	31.7	21.7	10	31.5%	NO	96.9	86.1	2.5	11.1%	YES	63	26	48	21	23.8%	19.2%	YES
			LKD	W8/F14	31.5	21.4	10.1	32.1%	NO												
F15	R1 (3)	RESIDENTIAL	LKD	W1/F15	33.2	24.7	8.5	25.6%	NO	96.4	88.8	1.8	7.9%	YES	65	26	52	23	20.0%	11.5%	YES
			LKD	W2/F15	33	24.4	8.6	26.1%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F15	32.8	23.8	9	27.4%	NO	98.2	95	0.4	3.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F15	32.6	23.4	9.2	28.2%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F15	32.3	22.8	9.5	29.4%	NO	98.1	92.9	0.7	5.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F15	32.1	22.4	9.7	30.2%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F15	31.8	21.8	10	31.4%	NO	97	86.2	2.5	11.1%	YES	63	26	48	21	23.8%	19.2%	YES
			LKD	W8/F15	31.6	21.5	10.1	32.0%	NO												
F16	R1	RESIDENTIAL	LKD	W1/F16	33.3	24.8	8.5	25.5%	NO	96.3	92.3	0.5	4.1%	YES	65	26	52	23	20.0%	11.5%	YES
			LKD	W2/F16	33.2	24.6	8.6	25.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F16	32.9	24	8.9	27.1%	NO	97.5	94.3	0.3	3.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F16	32.7	23.5	9.2	28.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F16	32.4	23	9.4	29.0%	NO	97.2	91.8	0.5	5.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F16	32.2	22.6	9.6	29.8%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R4	RESIDENTIAL	LKD	W7/F16	31.9	22	9.9	31.0%	NO	95.9	90.4	0.7	5.7%	YES	63	26	48	21	23.8%	19.2%	YES
			LKD	W8/F16	31.7	21.6	10.1	31.9%	NO												
F17	R1	RESIDENTIAL	LKD	W1/F17	29.9	29.9	0	0.0%	YES	100	100	0.0	0.0%	YES	73	26	60	23	17.8%	11.5%	YES
			LKD	W2/F17	29.9	29.9	0	0.0%	YES												
			LKD	W3/F17	29.9	29.9	0	0.0%	YES												
			LKD	W4/F17	29.9	29.9	0	0.0%	YES												
TRANSITION BLOCK 2 (CONTINUED)																					
			LKD	W5/F17	4	3.3	0.7	17.5%	YES												
			LKD	W6/F17	2.1	2.1	0	0.0%	YES												
			LKD	W7/F17	33.4	25	8.4	25.1%	NO												
			LKD	W8/F17	33.3	24.7	8.6	25.8%	NO												
	R2	RESIDENTIAL	LKD	W9/F17	32	22.1	9.9	30.9%	NO	99.2	93.9	3.4	5.3%	YES	65	26	51	22	21.5%	15.4%	YES
			LKD	W10/F17	31.8	21.8	10	31.4%	NO												
			LKD	W11/F17	1	0.1	0.9	90.0%	NO												
			LKD	W12/F17	2.5	1.1	1.4	56.0%	NO												
			LKD	W13/F17	15.5	13.8	1.7	11.0%	YES												
			LKD	W14/F17	15.4	13.8	1.6	10.4%	YES												
			LKD	W15/F17	15.2	13.7	1.5	9.9%	YES												
			LKD	W16/F17	15	13.5	1.5	10.0%	YES												
TRANSITION BLOCK 1																					
F00	R1	RESIDENTIAL	LKD	W1/F00	11.5	11.4	0.1	0.9%	YES	92.3	90.9	0.2	1.5%	YES	30	11	29	11	3.3%	0.0%	YES
			LKD	W2/F00	9.1	8.9	0.2	2.2%	YES												
	R2	RESIDENTIAL	LKD	W3/F00	5	4.7	0.3	6.0%	YES	63.9	45.8	2.4	28.3%	NO	15	4	14	4	6.7%	0.0%	YES
			LKD	W4/F00	4.1	3.8	0.3	7.3%	YES												
	R3	RESIDENTIAL	LKD	W5/F00	2.9	2.8	0.1	3.4%	YES	53.2	38.3	1.7	28.1%	NO	9	0	8	0	11.1%	0.0%	YES
			LKD	W6/F00	2.7	2.4	0.3	11.1%	YES												
	R4	RESIDENTIAL	LKD	W7/F00	2.4	2.2	0.2	8.3%	YES	32.4	9	3.0	72.1%	NO	8	1	7	1	12.5%	0.0%	YES
			LKD	W8/F00	2.7	2.3	0.4	14.8%	YES												
	R5	RESIDENTIAL	LKD	W9/F00	3.1	2.2	0.9	29.0%	NO	19.5	7.5	1.5	61.6%	NO	5	0	4	0	20.0%	0.0%	YES
			LKD	W10/F00	3.2	2.2	1	31.2%	NO												
	R6	RESIDENTIAL	LKD	W11/F00	3.1	2.2	0.9	29.0%	NO	18	13.5	0.6	24.8%	NO	8	0	7	0	12.5%	0.0%	YES
			LKD	W12/F00	3.1	2.2	0.9	29.0%	NO												
	R7	RESIDENTIAL	LKD	W13/F00	3.1	2.2	0.9	29.0%	NO	19.3	14.7	0.6	23.8%	NO	8	0	6	0	25.0%	0.0%	YES
			LKD	W14/F00	3	2.2	0.8	26.7%	NO												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS %	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F01	R1	RESIDENTIAL	LKD	W1/F01	19.3	19.2	0.1	0.5%	YES	97.8	97.8	0.0	0.0%	YES	50	18	48	17	4.0%	5.6%	YES
			LKD	W2/F01	18.6	18.3	0.3	1.6%	YES												
			LKD	W3/F01	14.8	14.6	0.2	1.4%	YES												
TRANSITION BLOCK 1 (CONTINUED)																					
			LKD	W4/F01	12	11.8	0.2	1.7%	YES												
			LKD	W23/F01	24.5	24.5	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W5/F01	8.3	7.9	0.4	4.8%	YES	50.7	44.3	0.6	12.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W6/F01	5	4.6	0.4	8.0%	YES	51.1	45.6	1.5	10.7%	YES	17	6	16	5	5.9%	16.7%	YES
			LKD	W7/F01	4.4	4.1	0.3	6.8%	YES												
			LKD	W8/F01	3.3	3.1	0.2	6.1%	YES												
	R4	RESIDENTIAL	BEDROOM	W9/F01	2.9	2.7	0.2	6.9%	YES	53.7	31.3	3.0	41.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W10/F01	2.7	2.5	0.2	7.4%	YES												
	R5	RESIDENTIAL	LKD	W11/F01	2.6	2.4	0.2	7.7%	YES	31.4	14.9	5.3	52.5%	NO	12	3	8	3	33.3%	0.0%	YES
			LKD	W12/F01	2.6	2.4	0.2	7.7%	YES												
			LKD	W13/F01	4	2.6	1.4	35.0%	NO												
			LKD	W14/F01	4	2.5	1.5	37.5%	NO												
	R6	RESIDENTIAL	BEDROOM	W15/F01	3.9	2.3	1.6	41.0%	NO	21.2	5.2	1.5	75.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W16/F01	4	2.5	1.5	37.5%	NO	20.7	15.6	0.6	24.8%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W17/F01	4	2.6	1.4	35.0%	NO	23.6	18.1	1.7	23.4%	NO	11	0	6	0	45.5%	0.0%	NO
			LKD	W18/F01	4	2.6	1.4	35.0%	NO												
			LKD	W19/F01	4	2.7	1.3	32.5%	NO												
	R9	RESIDENTIAL	LKD	W20/F01	5	4.9	0.1	2.0%	YES	99.8	99.8	0.0	0.0%	YES	11	0	8	0	27.3%	0.0%	YES
			LKD	W21/F01	2.4	2	0.4	16.7%	YES												
			LKD	W22/F01	2.1	1.8	0.3	14.3%	YES												
F02	R1	RESIDENTIAL	LKD	W1/F02	19.8	19.6	0.2	1.0%	YES	97.9	97.8	0.0	0.0%	YES	51	19	49	18	3.9%	5.3%	YES
			LKD	W2/F02	19	18.8	0.2	1.1%	YES												
			LKD	W3/F02	15.3	15	0.3	2.0%	YES												
			LKD	W4/F02	12.4	12.1	0.3	2.4%	YES												
			LKD	W35/F02	25.5	25.5	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W5/F02	8.7	8.2	0.5	5.7%	YES	47.5	41.5	0.6	12.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W6/F02	5.3	4.8	0.5	9.4%	YES	45.9	36.3	2.6	20.9%	NO	16	6	15	5	6.3%	16.7%	YES
			LKD	W7/F02	4.7	4.3	0.4	8.5%	YES												
			LKD	W8/F02	3.6	3.3	0.3	8.3%	YES												
	R4	RESIDENTIAL	BEDROOM	W9/F02	3.2	3	0.2	6.3%	YES	47.8	24.8	3.1	48.1%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W10/F02	3.1	2.8	0.3	9.7%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
TRANSITION BLOCK 1 (CONTINUED)																					
	R5	RESIDENTIAL	LKD	W11/F02	2.9	2.7	0.2	6.9%	YES	40.4	16.8	7.6	58.5%	NO	15	3	8	3	46.7%	0.0%	NO
			LKD	W12/F02	3	2.6	0.4	13.3%	YES												
			LKD	W13/F02	5	2.8	2.2	44.0%	NO												
			LKD	W14/F02	5	2.7	2.3	46.0%	NO												
	R6	RESIDENTIAL	BEDROOM	W15/F02	5.1	2.5	2.6	51.0%	NO	36.1	5.2	2.9	85.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W16/F02	5.3	2.9	2.4	45.3%	NO	37.3	24.2	1.4	35.3%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W17/F02	5.4	3.1	2.3	42.6%	NO	36.8	27.2	2.9	26.2%	NO	14	1	8	1	42.9%	0.0%	NO
			LKD	W18/F02	5.4	3.2	2.2	40.7%	NO												
			LKD	W19/F02	5.5	3.4	2.1	38.2%	NO												
	R9	RESIDENTIAL	LKD	W20/F02	5.4	5.1	0.3	5.6%	YES	59.1	59	0.0	0.1%	YES	19	1	15	1	21.1%	0.0%	YES
			LKD	W21/F02	7	6.8	0.2	2.9%	YES												
			LKD	W22/F02	3.3	2.2	1.1	33.3%	NO												
			LKD	W23/F02	2.8	1.9	0.9	32.1%	NO												
			LKD	W24/F02	2.7	2.1	0.6	22.2%	NO												
	R10	RESIDENTIAL	BEDROOM	W25/F02	2.6	2.1	0.5	19.2%	YES	58.5	54.8	0.5	6.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F02	2.6	2.3	0.3	11.5%	YES												
			BEDROOM	W27/F02	2.5	2.3	0.2	8.0%	YES												
	R11	RESIDENTIAL	BEDROOM	W28/F02	2.5	2.4	0.1	4.0%	YES	72.3	72.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W29/F02	2.8	2.7	0.1	3.6%	YES												
	R12	RESIDENTIAL	LKD	W30/F02	2.8	2.7	0.1	3.6%	YES	82.6	80.6	0.3	2.4%	YES	17	4	14	3	17.6%	25.0%	YES
			LKD	W31/F02	2.8	2.6	0.2	7.1%	YES												
			LKD	W32/F02	4.3	3.9	0.4	9.3%	YES												
			LKD	W33/F02	3.4	3.2	0.2	5.9%	YES												
			LKD	W34/F02	0	0	0	-	YES												
F03	R1	RESIDENTIAL	LKD	W1/F03	20	19.8	0.2	1.0%	YES	97.9	97.8	0.0	0.0%	YES	53	20	51	19	3.8%	5.0%	YES
			LKD	W2/F03	19.3	19	0.3	1.6%	YES												
			LKD	W3/F03	15.6	15.3	0.3	1.9%	YES												
			LKD	W4/F03	12.7	12.4	0.3	2.4%	YES												
			LKD	W35/F03	26.1	26.1	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W5/F03	9.1	8.4	0.7	7.7%	YES	48.9	41.7	0.7	14.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W6/F03	5.6	5	0.6	10.7%	YES	50.5	38.6	3.2	23.6%	NO	15	5	14	4	6.7%	20.0%	YES
TRANSITION BLOCK 1 (CONTINUED)																					
			LKD	W7/F03	5.1	4.5	0.6	11.8%	YES												
			LKD	W8/F03	3.8	3.5	0.3	7.9%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R4	RESIDENTIAL	BEDROOM	W9/F03	3.4	3.1	0.3	8.8%	YES	50.6	28.1	3.0	44.5%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W10/F03	3.3	3	0.3	9.1%	YES												
	R5	RESIDENTIAL	LKD	W11/F03	3.2	2.9	0.3	9.4%	YES	68	17.4	16.2	74.4%	NO	18	6	9	4	50.0%	33.3%	NO
			LKD	W12/F03	3.4	2.8	0.6	17.6%	YES												
			LKD	W13/F03	6.2	3	3.2	51.6%	NO												
			LKD	W14/F03	6.3	2.9	3.4	54.0%	NO												
	R6	RESIDENTIAL	BEDROOM	W15/F03	6.5	2.7	3.8	58.5%	NO	54.3	5.9	4.5	89.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W16/F03	6.9	3.3	3.6	52.2%	NO	58.3	34.3	2.6	41.2%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W17/F03	7.1	3.7	3.4	47.9%	NO	70.1	45.5	7.4	35.1%	NO	17	4	10	3	41.2%	25.0%	NO
			LKD	W18/F03	7.2	3.9	3.3	45.8%	NO												
			LKD	W19/F03	7.3	4.2	3.1	42.5%	NO												
	R9	RESIDENTIAL	LKD	W20/F03	6.7	6.4	0.3	4.5%	YES	74.8	70.1	1.1	6.3%	YES	22	5	16	3	27.3%	40.0%	NO
			LKD	W21/F03	9.8	9.5	0.3	3.1%	YES												
			LKD	W22/F03	3.6	2.1	1.5	41.7%	NO												
			LKD	W23/F03	3.4	2.1	1.3	38.2%	NO												
			LKD	W24/F03	3.1	2.2	0.9	29.0%	NO												
	R10	RESIDENTIAL	BEDROOM	W25/F03	3	2.3	0.7	23.3%	NO	90.5	80.5	1.3	11.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F03	2.9	2.4	0.5	17.2%	YES												
			BEDROOM	W27/F03	2.8	2.5	0.3	10.7%	YES												
	R11	RESIDENTIAL	BEDROOM	W28/F03	2.7	2.5	0.2	7.4%	YES	95.4	90.1	0.4	5.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W29/F03	2.8	2.7	0.1	3.6%	YES												
	R12	RESIDENTIAL	LKD	W30/F03	2.8	2.5	0.3	10.7%	YES	95	91.2	0.7	4.1%	YES	14	8	11	6	21.4%	25.0%	YES
			LKD	W31/F03	2.8	2.5	0.3	10.7%	YES												
			LKD	W32/F03	4	3.6	0.4	10.0%	YES												
			LKD	W33/F03	3.4	3.1	0.3	8.8%	YES												
			LKD	W34/F03	0	0	0	-	YES												
F04	R1	RESIDENTIAL	LKD	W1/F04	20.2	20	0.2	1.0%	YES	98.5	98.4	0.0	0.1%	YES	54	20	52	19	3.7%	5.0%	YES
			LKD	W2/F04	19.5	19.1	0.4	2.1%	YES												
			LKD	W3/F04	15.8	15.5	0.3	1.9%	YES												
TRANSITION BLOCK 1 (CONTINUED)																					
			LKD	W4/F04	12.8	12.5	0.3	2.3%	YES												
			LKD	W35/F04	26.5	26.5	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W5/F04	9.3	8.5	0.8	8.6%	YES	54.6	43.7	1.0	20.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W6/F04	5.8	5.1	0.7	12.1%	YES	56.2	45	3.0	19.9%	YES	15	5	14	4	6.7%	20.0%	YES
			LKD	W7/F04	5.3	4.7	0.6	11.3%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W8/F04	4	3.6	0.4	10.0%	YES												
	R4	RESIDENTIAL	BEDROOM	W9/F04	3.6	3.3	0.3	8.3%	YES	44.8	15	4.0	66.4%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W10/F04	3.6	3.2	0.4	11.1%	YES												
	R5	RESIDENTIAL	LKD	W11/F04	3.4	3.1	0.3	8.8%	YES	73.5	14.2	19.1	80.7%	NO	19	7	9	4	52.6%	42.9%	NO
			LKD	W12/F04	3.7	3	0.7	18.9%	YES												
			LKD	W13/F04	7.5	3.2	4.3	57.3%	NO												
			LKD	W14/F04	7.7	3.1	4.6	59.7%	NO												
	R6	RESIDENTIAL	BEDROOM	W15/F04	8	2.9	5.1	63.8%	NO	54.6	6.5	4.5	88.0%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R7	RESIDENTIAL	BEDROOM	W16/F04	8.7	3.8	4.9	56.3%	NO	58.6	35.4	2.5	39.6%	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R8	RESIDENTIAL	LKD	W17/F04	9	4.4	4.6	51.1%	NO	74.7	51.8	6.9	30.6%	NO	20	7	12	4	40.0%	42.9%	NO
			LKD	W18/F04	9.1	4.6	4.5	49.5%	NO												
			LKD	W19/F04	9.2	5	4.2	45.7%	NO												
	R9	RESIDENTIAL	LKD	W20/F04	11.3	10.8	0.5	4.4%	YES	87.8	72.2	3.7	17.8%	YES	28	9	19	4	32.1%	55.6%	NO
			LKD	W21/F04	15.7	15.3	0.4	2.5%	YES												
			LKD	W22/F04	1.4	0.8	0.6	42.9%	NO												
			LKD	W23/F04	1.2	0.7	0.5	41.7%	NO												
			LKD	W24/F04	1.1	0.7	0.4	36.4%	NO												
	R10	RESIDENTIAL	BEDROOM	W25/F04	1.1	0.7	0.4	36.4%	NO	84.7	75.6	1.2	10.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W26/F04	1	0.8	0.2	20.0%	YES												
			BEDROOM	W27/F04	0.9	0.8	0.1	11.1%	YES												
	R11	RESIDENTIAL	BEDROOM	W28/F04	0.9	0.7	0.2	22.2%	NO	84.8	82.6	0.2	2.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W29/F04	0.9	0.8	0.1	11.1%	YES												
	R12	RESIDENTIAL	LKD	W30/F04	0.9	0.7	0.2	22.2%	NO	90.6	87.7	0.5	3.1%	YES	5	4	4	3	20.0%	25.0%	YES
			LKD	W31/F04	0.9	0.7	0.2	22.2%	NO												
			LKD	W32/F04	1.7	1.5	0.2	11.8%	YES												
			LKD	W33/F04	1.2	1.1	0.1	8.3%	YES												
TRANSITION BLOCK 1 (CONTINUED)																					
			LKD	W34/F04	0	0	0	-	YES												
F05	R1 (3)	RESIDENTIAL	LKD	W1/F05	12.3	10	2.3	18.7%	YES	71.3	50.1	5.0	29.7%	NO	24	9	18	6	25.0%	33.3%	NO
			LKD	W2/F05	12	10.4	1.6	13.3%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F05	11.5	10.6	0.9	7.8%	YES	78.6	69.6	1.2	11.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F05	11.1	10.6	0.5	4.5%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F05	10.5	9.9	0.6	5.7%	YES	85.5	78.5	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F05	10	9.6	0.4	4.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F05	9.6	8.8	0.8	8.3%	YES	56.7	50.2	1.5	11.6%	YES	20	6	19	5	5.0%	16.7%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W8/F05	9.1	8.6	0.5	5.5%	YES												
F06	R1 (3)	RESIDENTIAL	LKD	W1/F06	12.6	10.3	2.3	18.3%	YES	71.7	50.3	5.1	29.9%	NO	24	9	18	6	25.0%	33.3%	NO
			LKD	W2/F06	12.3	10.7	1.6	13.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F06	11.7	10.9	0.8	6.8%	YES	78.7	69.7	1.2	11.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F06	11.4	10.9	0.5	4.4%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F06	10.8	10.2	0.6	5.6%	YES	85.3	78.3	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F06	10.2	9.8	0.4	3.9%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F06	9.8	9.1	0.7	7.1%	YES	57.1	50.4	1.6	11.7%	YES	21	6	20	5	4.8%	16.7%	YES
			LKD	W8/F06	9.4	8.9	0.5	5.3%	YES												
F07	R1 (3)	RESIDENTIAL	LKD	W1/F07	12.9	10.7	2.2	17.1%	YES	71.8	50.3	5.1	29.9%	NO	27	10	20	6	25.9%	40.0%	NO
			LKD	W2/F07	12.6	11	1.6	12.7%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F07	12	11.2	0.8	6.7%	YES	78.7	69.8	1.2	11.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F07	11.7	11.2	0.5	4.3%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F07	11.1	10.5	0.6	5.4%	YES	85.3	78.4	0.9	8.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F07	10.5	10.2	0.3	2.9%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F07	10.1	9.4	0.7	6.9%	YES	57.2	50.4	1.6	11.9%	YES	24	7	23	6	4.2%	14.3%	YES
			LKD	W8/F07	9.7	9.2	0.5	5.2%	YES												
F08	R1 (3)	RESIDENTIAL	LKD	W1/F08	13.3	11.1	2.2	16.5%	YES	71.8	50.4	5.1	29.8%	NO	27	10	20	6	25.9%	40.0%	NO
			LKD	W2/F08	13	11.4	1.6	12.3%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F08	12.4	11.6	0.8	6.5%	YES	78.8	69.9	1.2	11.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F08	12.1	11.6	0.5	4.1%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F08	11.4	10.8	0.6	5.3%	YES	85.6	78.5	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F08	10.9	10.5	0.4	3.7%	YES												
TRANSITION BLOCK 1 (CONTINUED)																					
	R4 (3)	RESIDENTIAL	LKD	W7/F08	10.5	9.8	0.7	6.7%	YES	57.2	50.6	1.6	11.6%	YES	25	7	24	6	4.0%	14.3%	YES
			LKD	W8/F08	10	9.6	0.4	4.0%	YES												
F09	R1 (3)	RESIDENTIAL	LKD	W1/F09	13.7	11.5	2.2	16.1%	YES	72.1	50.8	5.1	29.6%	NO	29	10	23	6	20.7%	40.0%	NO
			LKD	W2/F09	13.4	11.8	1.6	11.9%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F09	12.8	12.1	0.7	5.5%	YES	79	69.9	1.2	11.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F09	12.5	12	0.5	4.0%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F09	11.8	11.3	0.5	4.2%	YES	85.4	78.4	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F09	11.3	10.9	0.4	3.5%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F09	10.9	10.2	0.7	6.4%	YES	57.2	50.6	1.5	11.6%	YES	24	7	23	6	4.2%	14.3%	YES
			LKD	W8/F09	10.4	10	0.4	3.8%	YES												
F10	R1 (3)	RESIDENTIAL	LKD	W1/F10	14.3	12.1	2.2	15.4%	YES	72.4	51.2	5.0	29.2%	NO	32	10	26	6	18.8%	40.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W2/F10	13.9	12.4	1.5	10.8%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F10	13.4	12.6	0.8	6.0%	YES	78.8	69.9	1.2	11.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F10	13	12.6	0.4	3.1%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F10	12.3	11.8	0.5	4.1%	YES	85.5	78.5	1.0	8.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F10	11.8	11.4	0.4	3.4%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F10	11.3	10.6	0.7	6.2%	YES	57.1	50.6	1.5	11.4%	YES	25	7	24	6	4.0%	14.3%	YES
			LKD	W8/F10	10.8	10.4	0.4	3.7%	YES												
F11	R1 (3)	RESIDENTIAL	LKD	W1/F11	14.9	12.7	2.2	14.8%	YES	72.4	51.3	5.0	29.2%	NO	33	10	27	6	18.2%	40.0%	YES
			LKD	W2/F11	14.5	13	1.5	10.3%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F11	13.9	13.2	0.7	5.0%	YES	79	69.9	1.2	11.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F11	13.5	13.1	0.4	3.0%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F11	12.8	12.3	0.5	3.9%	YES	85.4	78.4	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F11	12.3	11.9	0.4	3.3%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F11	11.8	11.1	0.7	5.9%	YES	57.1	50.9	1.5	10.9%	YES	28	7	27	6	3.6%	14.3%	YES
			LKD	W8/F11	11.3	10.9	0.4	3.5%	YES												
F12	R1 (3)	RESIDENTIAL	LKD	W1/F12	15.6	13.5	2.1	13.5%	YES	72.4	51.3	5.0	29.2%	NO	34	10	28	6	17.6%	40.0%	YES
			LKD	W2/F12	15.3	13.7	1.6	10.5%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F12	14.6	13.8	0.8	5.5%	YES	78.9	70.1	1.2	11.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F12	14.2	13.7	0.5	3.5%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F12	13.4	12.9	0.5	3.7%	YES	85.4	78.4	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRANSITION BLOCK 1 (CONTINUED)																					
			BEDROOM	W6/F12	12.8	12.5	0.3	2.3%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F12	12.3	11.7	0.6	4.9%	YES	57.1	51.2	1.4	10.4%	YES	30	9	28	7	6.7%	22.2%	YES
			LKD	W8/F12	11.8	11.4	0.4	3.4%	YES												
F13	R1 (3)	RESIDENTIAL	LKD	W1/F13	16.4	14.3	2.1	12.8%	YES	72.5	51.4	5.0	29.0%	NO	37	11	31	7	16.2%	36.4%	YES
			LKD	W2/F13	16	14.5	1.5	9.4%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F13	15.3	14.5	0.8	5.2%	YES	79.2	70.4	1.2	11.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F13	14.9	14.4	0.5	3.4%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F13	14	13.5	0.5	3.6%	YES	85.7	78.6	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F13	13.5	13.1	0.4	3.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F13	12.9	12.2	0.7	5.4%	YES	57.4	51.5	1.4	10.4%	YES	35	11	32	8	8.6%	27.3%	YES
			LKD	W8/F13	12.4	12	0.4	3.2%	YES												
F14	R1 (3)	RESIDENTIAL	LKD	W1/F14	17.4	15.2	2.2	12.6%	YES	72.5	51.6	5.0	28.9%	NO	39	13	33	9	15.4%	30.8%	YES
			LKD	W2/F14	16.9	15.3	1.6	9.5%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F14	16.1	15.3	0.8	5.0%	YES	79.4	70.8	1.2	10.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			BEDROOM	W4/F14	15.6	15.1	0.5	3.2%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F14	14.8	14.2	0.6	4.1%	YES	85.5	78.4	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F14	14.2	13.7	0.5	3.5%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F14	13.6	12.9	0.7	5.1%	YES	57.4	51.5	1.4	10.4%	YES	37	13	34	10	8.1%	23.1%	YES
			LKD	W8/F14	13.1	12.6	0.5	3.8%	YES												
F15	R1 (3)	RESIDENTIAL	LKD	W1/F15	18.4	16.1	2.3	12.5%	YES	72.7	52	4.9	28.5%	NO	42	15	36	11	14.3%	26.7%	YES
			LKD	W2/F15	17.8	16.1	1.7	9.6%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F15	17	16	1	5.9%	YES	79.8	71.3	1.2	10.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F15	16.5	15.8	0.7	4.2%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F15	15.6	14.8	0.8	5.1%	YES	85.8	78.7	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F15	15	14.4	0.6	4.0%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F15	14.3	13.5	0.8	5.6%	YES	57.6	51.8	1.4	10.0%	YES	40	13	36	10	10.0%	23.1%	YES
			LKD	W8/F15	13.8	13.2	0.6	4.3%	YES												
F16	R1 (3)	RESIDENTIAL	LKD	W1/F16	19.5	17.1	2.4	12.3%	YES	72.9	52.4	4.9	28.1%	NO	44	16	38	12	13.6%	25.0%	YES
			LKD	W2/F16	18.9	17	1.9	10.1%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F16	17.9	16.8	1.1	6.1%	YES	80.5	72	1.2	10.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F16	17.4	16.6	0.8	4.6%	YES												
TRANSITION BLOCK 1 (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W5/F16	16.5	15.5	1	6.1%	YES	85.5	78.5	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F16	15.8	15.1	0.7	4.4%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F16	15.2	14.2	1	6.6%	YES	57.9	52.2	1.3	9.9%	YES	40	13	36	10	10.0%	23.1%	YES
			LKD	W8/F16	14.7	13.8	0.9	6.1%	YES												
F17	R1 (3)	RESIDENTIAL	LKD	W1/F17	20.6	18	2.6	12.6%	YES	73.3	53.1	4.8	27.5%	NO	47	17	40	13	14.9%	23.5%	YES
			LKD	W2/F17	19.9	17.9	2	10.1%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F17	18.9	17.5	1.4	7.4%	YES	81.4	73.1	1.1	10.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F17	18.4	17.3	1.1	6.0%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F17	17.4	16.3	1.1	6.3%	YES	85.5	78.6	0.9	8.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F17	16.8	15.7	1.1	6.5%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F17	16.1	14.9	1.2	7.5%	YES	58.2	52.7	1.3	9.5%	YES	44	14	38	11	13.6%	21.4%	YES
			LKD	W8/F17	15.6	14.5	1.1	7.1%	YES												
F18	R1 (3)	RESIDENTIAL	LKD	W1/F18	21.5	18.6	2.9	13.5%	YES	74	54	4.7	27.0%	NO	48	17	41	13	14.6%	23.5%	YES
			LKD	W2/F18	20.9	18.5	2.4	11.5%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F18	19.8	18.1	1.7	8.6%	YES	82.8	74.3	1.2	10.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F18	19.3	17.8	1.5	7.8%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F18	18.4	16.9	1.5	8.2%	YES	85.8	78.7	1.0	8.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			BEDROOM	W6/F18	17.8	16.3	1.5	8.4%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F18	17.1	15.5	1.6	9.4%	YES	58.4	53	1.3	9.3%	YES	45	14	39	11	13.3%	21.4%	YES
			LKD	W8/F18	16.6	15.2	1.4	8.4%	YES												
F19	R1 (3)	RESIDENTIAL	LKD	W1/F19	22.3	19.1	3.2	14.3%	YES	74.3	54.5	4.7	26.7%	NO	48	16	41	13	14.6%	18.8%	YES
			LKD	W2/F19	21.6	18.9	2.7	12.5%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F19	20.7	18.5	2.2	10.6%	YES	83.8	75.5	1.1	9.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F19	20.2	18.3	1.9	9.4%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F19	19.3	17.4	1.9	9.8%	YES	86	79.3	0.9	7.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F19	18.7	16.9	1.8	9.6%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F19	18.1	16.1	2	11.0%	YES	58.6	53.6	1.2	8.6%	YES	46	13	38	10	17.4%	23.1%	YES
			LKD	W8/F19	17.7	15.8	1.9	10.7%	YES												
F20	R1 (3)	RESIDENTIAL	LKD	W1/F20	23.1	19.5	3.6	15.6%	YES	74.9	55.8	4.5	25.5%	NO	50	16	42	13	16.0%	18.8%	YES
			LKD	W2/F20	22.5	19.3	3.2	14.2%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F20	21.7	19	2.7	12.4%	YES	84.4	77.2	1.0	8.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRANSITION BLOCK 1 (CONTINUED)																					
			BEDROOM	W4/F20	21.2	18.8	2.4	11.3%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F20	20.4	17.9	2.5	12.3%	YES	85.8	80.3	0.8	6.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F20	19.9	17.5	2.4	12.1%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F20	19.3	16.8	2.5	13.0%	YES	59.1	54.5	1.1	7.6%	YES	48	14	40	10	16.7%	28.6%	YES
			LKD	W8/F20	18.9	16.5	2.4	12.7%	YES												
F21	R1 (3)	RESIDENTIAL	LKD	W1/F21	24.1	20	4.1	17.0%	YES	70.8	58.9	2.8	16.9%	YES	51	17	43	13	15.7%	23.5%	YES
			LKD	W2/F21	23.6	19.9	3.7	15.7%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F21	22.8	19.5	3.3	14.5%	YES	85.6	76.9	1.2	10.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F21	22.4	19.3	3.1	13.8%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F21	21.7	18.6	3.1	14.3%	YES	83.6	79.6	0.5	4.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F21	21.2	18.2	3	14.2%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F21	20.7	17.6	3.1	15.0%	YES	55	48.3	1.5	12.0%	YES	49	15	41	11	16.3%	26.7%	YES
			LKD	W8/F21	20.3	17.3	3	14.8%	YES												
F22	R1 (3)	RESIDENTIAL	LKD	W1/F22	25.2	20.6	4.6	18.3%	YES	76.5	67.8	2.1	11.5%	YES	53	19	44	14	17.0%	26.3%	YES
			LKD	W2/F22	24.8	20.4	4.4	17.7%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F22	24.1	20.1	4	16.6%	YES	95.5	91	0.6	4.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F22	23.8	19.9	3.9	16.4%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F22	23.1	19.3	3.8	16.5%	YES	94.4	90.6	0.5	4.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F22	22.7	18.9	3.8	16.7%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F22	22.2	18.4	3.8	17.1%	YES	62.8	61	0.4	2.9%	YES	50	16	45	14	10.0%	12.5%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
			LKD	W8/F22	21.9	18.2	3.7	16.9%	YES												
F23	R1 (3)	RESIDENTIAL	LKD	W1/F23	26.4	21.2	5.2	19.7%	YES	94.4	87.5	1.6	7.3%	YES	53	19	44	14	17.0%	26.3%	YES
			LKD	W2/F23	26	21	5	19.2%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F23	25.5	20.7	4.8	18.8%	YES	98.2	96.8	0.2	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F23	25.2	20.6	4.6	18.3%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F23	24.7	20.1	4.6	18.6%	YES	97.7	97.4	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F23	24.3	19.7	4.6	18.9%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F23	23.9	19.4	4.5	18.8%	YES	95	87.8	1.7	7.6%	YES	54	19	48	16	11.1%	15.8%	YES
			LKD	W8/F23	23.6	19.2	4.4	18.6%	YES												
F24	R1 (3)	RESIDENTIAL	LKD	W1/F24	27.6	21.8	5.8	21.0%	NO	94.8	91.6	0.8	3.4%	YES	57	22	46	14	19.3%	36.4%	YES
			LKD	W2/F24	27.3	21.6	5.7	20.9%	NO												
TRANSITION BLOCK 1 (CONTINUED)																					
	R2	RESIDENTIAL	BEDROOM	W3/F24	26.9	21.4	5.5	20.4%	NO	98.2	96.8	0.2	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F24	26.7	21.2	5.5	20.6%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F24	26.2	20.8	5.4	20.6%	NO	97.7	97.5	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F24	25.9	20.6	5.3	20.5%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F24	25.6	20.3	5.3	20.7%	NO	95.7	92	0.9	3.9%	YES	58	23	50	17	13.8%	26.1%	YES
			LKD	W8/F24	25.3	20.1	5.2	20.6%	NO												
F25	R1 (3)	RESIDENTIAL	LKD	W1/F25	28.8	22.4	6.4	22.2%	NO	95	91.9	0.7	3.3%	YES	57	22	46	14	19.3%	36.4%	YES
			LKD	W2/F25	28.5	22.3	6.2	21.8%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F25	28.2	22	6.2	22.0%	NO	98.2	96.9	0.2	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F25	28.1	21.9	6.2	22.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F25	27.7	21.6	6.1	22.0%	NO	97.7	97.5	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F25	27.4	21.4	6	21.9%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F25	27.1	21.2	5.9	21.8%	NO	95.8	92.6	0.8	3.4%	YES	58	23	50	17	13.8%	26.1%	YES
			LKD	W8/F25	26.9	21.1	5.8	21.6%	NO												
F26	R1 (3)	RESIDENTIAL	LKD	W1/F26	29.4	22.9	6.5	22.1%	NO	95.1	92	0.7	3.2%	YES	57	22	46	14	19.3%	36.4%	YES
			LKD	W2/F26	29.2	22.8	6.4	21.9%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F26	29	22.6	6.4	22.1%	NO	98.2	96.9	0.2	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F26	28.9	22.5	6.4	22.1%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F26	28.6	22.2	6.4	22.4%	NO	97.7	97.5	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F26	28.3	22	6.3	22.3%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F26	28.1	21.9	6.2	22.1%	NO	95.8	92.8	0.7	3.2%	YES	58	23	50	17	13.8%	26.1%	YES
			LKD	W8/F26	27.9	21.8	6.1	21.9%	NO												
F27	R1 (3)	RESIDENTIAL	LKD	W1/F27	29.7	23.3	6.4	21.5%	NO	94.9	91.9	0.7	3.2%	YES	57	22	46	14	19.3%	36.4%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W2/F27	29.5	23.2	6.3	21.4%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F27	29.2	23	6.2	21.2%	NO	98.2	96.9	0.2	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F27	29.1	22.9	6.2	21.3%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F27	28.8	22.7	6.1	21.2%	NO	97.7	97.5	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F27	28.6	22.5	6.1	21.3%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F27	28.4	22.3	6.1	21.5%	NO	95.8	92.9	0.7	3.0%	YES	59	23	51	17	13.6%	26.1%	YES
			LKD	W8/F27	28.2	22.2	6	21.3%	NO												
F28	R1 (3)	RESIDENTIAL	LKD	W1/F28	29.9	23.7	6.2	20.7%	NO	94.9	91.9	0.7	3.2%	YES	58	22	47	14	19.0%	36.4%	YES
TRANSITION BLOCK 1 (CONTINUED)																					
			LKD	W2/F28	29.7	23.6	6.1	20.5%	NO												
	R2	RESIDENTIAL	BEDROOM	W3/F28	29.5	23.4	6.1	20.7%	NO	98.2	96.9	0.2	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F28	29.4	23.3	6.1	20.7%	NO												
	R3	RESIDENTIAL	BEDROOM	W5/F28	29.1	23.1	6	20.6%	NO	97.7	97.5	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F28	28.8	22.9	5.9	20.5%	NO												
	R4 (3)	RESIDENTIAL	LKD	W7/F28	28.6	22.8	5.8	20.3%	NO	95.8	92.9	0.7	3.0%	YES	59	23	52	17	11.9%	26.1%	YES
			LKD	W8/F28	28.5	22.7	5.8	20.4%	NO												
F29	R1 (3)	RESIDENTIAL	LKD	W1/F29	30.1	24.2	5.9	19.6%	YES	94.9	91.9	0.7	3.2%	YES	58	22	47	14	19.0%	36.4%	YES
			LKD	W2/F29	30	24	6	20.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W3/F29	29.7	23.8	5.9	19.9%	YES	98.2	97.1	0.2	1.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W4/F29	29.6	23.7	5.9	19.9%	YES												
	R3	RESIDENTIAL	BEDROOM	W5/F29	29.4	23.5	5.9	20.1%	NO	97.7	97.5	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F29	29.1	23.3	5.8	19.9%	YES												
	R4 (3)	RESIDENTIAL	LKD	W7/F29	28.9	23.2	5.7	19.7%	YES	95.8	92.9	0.7	3.0%	YES	59	23	52	17	11.9%	26.1%	YES
			LKD	W8/F29	28.8	23.1	5.7	19.8%	YES												
F30	R1	RESIDENTIAL	BEDROOM	W1/F30	35.9	35.5	0.4	1.1%	YES	99	99	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W2/F30	35.9	35.5	0.4	1.1%	YES												
			BEDROOM	W3/F30	30.8	25	5.8	18.8%	YES												
			BEDROOM	W4/F30	30.6	24.8	5.8	19.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W5/F30	30.4	24.6	5.8	19.1%	YES	95.5	94.3	0.2	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W6/F30	30.2	24.5	5.7	18.9%	YES												
	R3	RESIDENTIAL	BEDROOM	W7/F30	30	24.3	5.7	19.0%	YES	97.6	95.8	0.2	1.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W8/F30	29.9	24.2	5.7	19.1%	YES												
	R4	RESIDENTIAL	BEDROOM	W9/F30	29.6	24	5.6	18.9%	YES	96.2	95.5	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W10/F30	29.4	23.8	5.6	19.0%	YES												
	R5	RESIDENTIAL	BEDROOM	W11/F30	29.2	23.7	5.5	18.8%	YES	94	93.5	0.1	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			BEDROOM	W12/F30	29.1	23.6	5.5	18.9%	YES												
	R6	RESIDENTIAL	BEDROOM	W13/F30	28.8	23.4	5.4	18.8%	YES	98.9	98.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W14/F30	28.5	23.2	5.3	18.6%	YES												
			BEDROOM	W15/F30	25.2	25.1	0.1	0.4%	YES												
			BEDROOM	W16/F30	25.2	25.1	0.1	0.4%	YES												
TRANSITION BLOCK 1 (CONTINUED)																					
F31	R1	RESIDENTIAL	LKD	W1/F31	36.1	35.8	0.3	0.8%	YES	99.4	99.4	0.0	0.0%	YES	77	22	70	16	9.1%	27.3%	YES
			LKD	W2/F31	36.1	35.8	0.3	0.8%	YES												
			LKD	W3/F31	36.1	35.8	0.3	0.8%	YES												
			LKD	W4/F31	36.1	35.7	0.4	1.1%	YES												
			LKD	W9/F31	30.7	25.1	5.6	18.2%	YES												
			LKD	W10/F31	30.5	25	5.5	18.0%	YES												
	R2	RESIDENTIAL	LKD	W15/F31	29.5	24.3	5.2	17.6%	YES	99.4	99.4	0.0	0.0%	YES	65	22	58	16	10.8%	27.3%	YES
			LKD	W16/F31	29.4	24.2	5.2	17.7%	YES												
			LKD	W21/F31	25.7	25.6	0.1	0.4%	YES												
			LKD	W22/F31	25.6	25.5	0.1	0.4%	YES												
			LKD	W23/F31	25.4	25.3	0.1	0.4%	YES												
			LKD	W24/F31	25.2	25.2	0	0.0%	YES												
THE CIRCLE																					
F01	R1	RESIDENTIAL	UNKNOWN	W1/F01	28.5	26.5	2	7.0%	YES	98.5	92.9	1.2	5.6%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F01	28.8	26.8	2	6.9%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F01	29.5	27.5	2	6.8%	YES	98.6	97.3	0.2	1.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F01	30.2	28.2	2	6.6%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F01	31	28.9	2.1	6.8%	YES	96.1	90.3	1.1	6.1%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F01	31.8	29.8	2	6.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F01	32.9	31.1	1.8	5.5%	YES	95.7	92.1	0.8	3.8%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F01	33.8	32.1	1.7	5.0%	YES												
F02	R1	RESIDENTIAL	UNKNOWN	W1/F02	28.9	26.9	2	6.9%	YES	98.5	93.5	1.0	5.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F02	29.2	27.2	2	6.8%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F02	29.9	27.9	2	6.7%	YES	98.6	97.6	0.2	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F02	30.6	28.6	2	6.5%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F02	31.3	29.3	2	6.4%	YES	96	90.5	1.0	5.8%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F02	32.1	30.2	1.9	5.9%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F02	33.3	31.4	1.9	5.7%	YES	95.7	92.2	0.7	3.6%	YES	63	22	59	22	6.3%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			UNKNOWN	W8/F02	34.2	32.4	1.8	5.3%	YES												
F03	R1	RESIDENTIAL	UNKNOWN	W1/F03	29.3	27.3	2	6.8%	YES	98.5	94.3	0.9	4.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
THE CIRCLE (CONTINUED)																					
			UNKNOWN	W2/F03	29.6	27.6	2	6.8%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F03	30.3	28.2	2.1	6.9%	YES	98.6	97.7	0.2	0.9%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F03	30.9	28.9	2	6.5%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F03	31.6	29.6	2	6.3%	YES	96	91.6	0.8	4.7%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F03	32.4	30.5	1.9	5.9%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F03	33.5	31.7	1.8	5.4%	YES	96.2	92.6	0.7	3.6%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F03	34.4	32.7	1.7	4.9%	YES												
F04	R1	RESIDENTIAL	UNKNOWN	W1/F04	29.6	27.7	1.9	6.4%	YES	98.5	95.3	0.7	3.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F04	29.9	27.9	2	6.7%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F04	30.6	28.5	2.1	6.9%	YES	98.6	97.9	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F04	31.2	29.2	2	6.4%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F04	31.9	29.9	2	6.3%	YES	96.4	92.3	0.8	4.3%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F04	32.6	30.7	1.9	5.8%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F04	33.7	31.9	1.8	5.3%	YES	96.2	92.9	0.7	3.5%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F04	34.6	32.9	1.7	4.9%	YES												
F05	R1	RESIDENTIAL	UNKNOWN	W1/F05	30	28	2	6.7%	YES	98.5	96.4	0.4	2.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F05	30.3	28.3	2	6.6%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F05	30.8	28.8	2	6.5%	YES	98.6	98.3	0.1	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F05	31.5	29.4	2.1	6.7%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F05	32.1	30.1	2	6.2%	YES	96.7	92.9	0.7	3.9%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F05	32.8	30.9	1.9	5.8%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F05	33.9	32.1	1.8	5.3%	YES	96.4	93.1	0.7	3.4%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F05	34.8	33.1	1.7	4.9%	YES												
F06	R1	RESIDENTIAL	UNKNOWN	W1/F06	30.3	28.3	2	6.6%	YES	98.5	97.2	0.3	1.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F06	30.6	28.6	2	6.5%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F06	31.1	29.1	2	6.4%	YES	98.6	98.3	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F06	31.7	29.7	2	6.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F06	32.3	30.4	1.9	5.9%	YES	97.6	93.8	0.7	3.9%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F06	33	31.1	1.9	5.8%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F06	34.1	32.3	1.8	5.3%	YES	96.5	93.1	0.7	3.5%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F06	34.9	33.2	1.7	4.9%	YES												
THE CIRCLE (CONTINUED)																					

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F07	R1	RESIDENTIAL	UNKNOWN	W1/F07	30.6	28.7	1.9	6.2%	YES	98.5	97.6	0.2	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F07	30.9	28.9	2	6.5%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F07	31.4	29.4	2	6.4%	YES	98.6	98.3	0.0	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F07	32	30	2	6.2%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F07	32.5	30.6	1.9	5.8%	YES	97.8	94.4	0.6	3.5%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F07	33.2	31.3	1.9	5.7%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F07	34.2	32.4	1.8	5.3%	YES	96.7	93.6	0.6	3.2%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F07	35	33.4	1.6	4.6%	YES												
F08	R1	RESIDENTIAL	UNKNOWN	W1/F08	30.9	29	1.9	6.1%	YES	98.5	97.5	0.2	1.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F08	31.1	29.2	1.9	6.1%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F08	31.7	29.7	2	6.3%	YES	98.6	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F08	32.2	30.2	2	6.2%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F08	32.7	30.8	1.9	5.8%	YES	97.9	94.6	0.6	3.3%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F08	33.4	31.5	1.9	5.7%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F08	34.4	32.6	1.8	5.2%	YES	96.7	93.6	0.6	3.2%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F08	35.2	33.5	1.7	4.8%	YES												
F09	R1	RESIDENTIAL	UNKNOWN	W1/F09	31.2	29.3	1.9	6.1%	YES	98.5	97.7	0.2	0.8%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F09	31.4	29.5	1.9	6.1%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F09	31.9	30	1.9	6.0%	YES	98.6	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F09	32.4	30.5	1.9	5.9%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F09	33	31.1	1.9	5.8%	YES	97.9	94.7	0.6	3.3%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F09	33.6	31.8	1.8	5.4%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F09	34.5	32.8	1.7	4.9%	YES	96.7	93.7	0.6	3.2%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F09	35.3	33.7	1.6	4.5%	YES												
F10	R1	RESIDENTIAL	UNKNOWN	W1/F10	31.5	29.7	1.8	5.7%	YES	98.5	97.9	0.1	0.7%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F10	31.7	29.8	1.9	6.0%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F10	32.2	30.2	2	6.2%	YES	98.6	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F10	32.7	30.8	1.9	5.8%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F10	33.2	31.3	1.9	5.7%	YES	97.9	94.7	0.6	3.2%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F10	33.8	32	1.8	5.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F10	34.7	33	1.7	4.9%	YES	96.7	93.7	0.6	3.2%	YES	63	22	59	22	6.3%	0.0%	YES
THE CIRCLE (CONTINUED)																					
			UNKNOWN	W8/F10	35.4	33.8	1.6	4.5%	YES												
F11	R1	RESIDENTIAL	UNKNOWN	W1/F11	31.8	30	1.8	5.7%	YES	98.5	98	0.1	0.5%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F11	32	30.1	1.9	5.9%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	UNKNOWN	W3/F11	32.4	30.5	1.9	5.9%	YES	98.6	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F11	32.9	31	1.9	5.8%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F11	33.4	31.5	1.9	5.7%	YES	97.9	94.7	0.6	3.2%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F11	34	32.2	1.8	5.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F11	34.8	33.1	1.7	4.9%	YES	96.7	93.7	0.6	3.2%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F11	35.5	34	1.5	4.2%	YES												
F12	R1	RESIDENTIAL	UNKNOWN	W1/F12	32.1	30.3	1.8	5.6%	YES	98.5	98.1	0.1	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F12	32.3	30.4	1.9	5.9%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F12	32.7	30.8	1.9	5.8%	YES	98.6	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F12	33.1	31.3	1.8	5.4%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F12	33.6	31.8	1.8	5.4%	YES	97.9	94.8	0.6	3.2%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F12	34.2	32.4	1.8	5.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F12	35	33.3	1.7	4.9%	YES	96.7	93.7	0.6	3.2%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F12	35.7	34.1	1.6	4.5%	YES												
F13	R1	RESIDENTIAL	UNKNOWN	W1/F13	32.4	30.6	1.8	5.6%	YES	98.5	98.2	0.1	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F13	32.5	30.8	1.7	5.2%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F13	32.9	31.1	1.8	5.5%	YES	98.6	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F13	33.4	31.5	1.9	5.7%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F13	33.8	32	1.8	5.3%	YES	97.9	94.8	0.6	3.2%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F13	34.3	32.6	1.7	5.0%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F13	35.1	33.5	1.6	4.6%	YES	96.8	93.8	0.6	3.0%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F13	35.8	34.3	1.5	4.2%	YES												
F14	R1	RESIDENTIAL	UNKNOWN	W1/F14	32.7	30.9	1.8	5.5%	YES	98.5	98.2	0.1	0.3%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F14	32.8	31.1	1.7	5.2%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F14	33.2	31.4	1.8	5.4%	YES	98.6	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F14	33.6	31.8	1.8	5.4%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F14	34	32.3	1.7	5.0%	YES	97.9	94.8	0.6	3.2%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F14	34.5	32.8	1.7	4.9%	YES												
THE CIRCLE (CONTINUED)																					
	R4	RESIDENTIAL	UNKNOWN	W7/F14	35.3	33.7	1.6	4.5%	YES	96.8	93.8	0.6	3.0%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F14	35.9	34.4	1.5	4.2%	YES												
F15	R1	RESIDENTIAL	UNKNOWN	W1/F15	33	31.2	1.8	5.5%	YES	98.5	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F15	33.1	31.3	1.8	5.4%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F15	33.4	31.6	1.8	5.4%	YES	98.6	98.4	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F15	33.8	32	1.8	5.3%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	UNKNOWN	W5/F15	34.2	32.5	1.7	5.0%	YES	97.9	94.8	0.6	3.2%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F15	34.7	33	1.7	4.9%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F15	35.4	33.9	1.5	4.2%	YES	96.8	94.2	0.5	2.7%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F15	36	34.6	1.4	3.9%	YES												
F16	R1	RESIDENTIAL	UNKNOWN	W1/F16	33.2	31.5	1.7	5.1%	YES	98.5	98.3	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F16	33.3	31.6	1.7	5.1%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F16	33.7	31.9	1.8	5.3%	YES	98.6	98.4	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F16	34	32.3	1.7	5.0%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F16	34.4	32.7	1.7	4.9%	YES	97.9	94.8	0.6	3.2%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F16	34.9	33.2	1.7	4.9%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F16	35.6	34	1.6	4.5%	YES	96.8	94.4	0.5	2.5%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F16	36.1	34.7	1.4	3.9%	YES												
F17	R1	RESIDENTIAL	UNKNOWN	W1/F17	33.4	31.8	1.6	4.8%	YES	98.5	98.3	0.0	0.2%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F17	33.6	31.9	1.7	5.1%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F17	33.8	32.2	1.6	4.7%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F17	34.2	32.5	1.7	5.0%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F17	34.6	32.9	1.7	4.9%	YES	97.9	95.2	0.5	2.8%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F17	35	33.4	1.6	4.6%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F17	35.7	34.2	1.5	4.2%	YES	97.1	94.7	0.5	2.5%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F17	36.2	34.8	1.4	3.9%	YES												
F18	R1	RESIDENTIAL	UNKNOWN	W1/F18	33.7	32.1	1.6	4.7%	YES	98.5	98.4	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F18	33.8	32.2	1.6	4.7%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F18	34	32.4	1.6	4.7%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F18	34.4	32.7	1.7	4.9%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F18	34.7	33.1	1.6	4.6%	YES	97.9	95.4	0.5	2.5%	YES	53	18	49	18	7.5%	0.0%	YES
THE CIRCLE (CONTINUED)																					
			UNKNOWN	W6/F18	35.2	33.6	1.6	4.5%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F18	35.8	34.3	1.5	4.2%	YES	97.3	95.4	0.4	2.0%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F18	36.3	35	1.3	3.6%	YES												
F19	R1	RESIDENTIAL	UNKNOWN	W1/F19	33.9	32.3	1.6	4.7%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F19	34	32.4	1.6	4.7%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F19	34.2	32.6	1.6	4.7%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F19	34.6	33	1.6	4.6%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F19	34.9	33.3	1.6	4.6%	YES	97.9	96.1	0.3	1.9%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F19	35.3	33.8	1.5	4.2%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R4	RESIDENTIAL	UNKNOWN	W7/F19	35.9	34.5	1.4	3.9%	YES	97.6	95.8	0.4	1.8%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F19	36.4	35.1	1.3	3.6%	YES												
F20	R1	RESIDENTIAL	UNKNOWN	W1/F20	34.1	32.6	1.5	4.4%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F20	34.2	32.7	1.5	4.4%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F20	34.4	32.9	1.5	4.4%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F20	34.7	33.2	1.5	4.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F20	35.1	33.5	1.6	4.6%	YES	98.1	96.9	0.2	1.2%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F20	35.4	34	1.4	4.0%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F20	36.1	34.7	1.4	3.9%	YES	97.7	96.6	0.2	1.2%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F20	36.5	35.3	1.2	3.3%	YES												
F21	R1	RESIDENTIAL	UNKNOWN	W1/F21	34.3	32.9	1.4	4.1%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F21	34.4	32.9	1.5	4.4%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F21	34.6	33.1	1.5	4.3%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F21	34.9	33.4	1.5	4.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F21	35.2	33.7	1.5	4.3%	YES	98.3	97.8	0.1	0.5%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F21	35.6	34.2	1.4	3.9%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F21	36.2	34.8	1.4	3.9%	YES	98.2	97.2	0.2	1.0%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F21	36.7	35.4	1.3	3.5%	YES												
F22	R1	RESIDENTIAL	UNKNOWN	W1/F22	34.5	33.1	1.4	4.1%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F22	34.6	33.2	1.4	4.0%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F22	34.8	33.3	1.5	4.3%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F22	35.1	33.6	1.5	4.3%	YES												
THE CIRCLE (CONTINUED)																					
	R3	RESIDENTIAL	UNKNOWN	W5/F22	35.4	33.9	1.5	4.2%	YES	98.4	98.4	0.0	0.0%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F22	35.7	34.4	1.3	3.6%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F22	36.3	35	1.3	3.6%	YES	98.3	97.7	0.1	0.6%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F22	36.8	35.5	1.3	3.5%	YES												
F23	R1	RESIDENTIAL	UNKNOWN	W1/F23	34.8	33.4	1.4	4.0%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F23	34.8	33.4	1.4	4.0%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F23	35	33.6	1.4	4.0%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F23	35.3	33.8	1.5	4.2%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F23	35.5	34.2	1.3	3.7%	YES	98.4	98.4	0.0	0.0%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F23	35.9	34.5	1.4	3.9%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F23	36.4	35.2	1.2	3.3%	YES	98.4	97.9	0.1	0.5%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F23	36.9	35.7	1.2	3.3%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F24	R1	RESIDENTIAL	UNKNOWN	W1/F24	35	33.6	1.4	4.0%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F24	35	33.7	1.3	3.7%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F24	35.2	33.8	1.4	4.0%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F24	35.4	34.1	1.3	3.7%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F24	35.7	34.4	1.3	3.6%	YES	98.4	98.4	0.0	0.0%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F24	36	34.7	1.3	3.6%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F24	36.5	35.3	1.2	3.3%	YES	98.4	98	0.1	0.4%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F24	37	35.8	1.2	3.2%	YES												
F25	R1	RESIDENTIAL	UNKNOWN	W1/F25	35.2	33.9	1.3	3.7%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F25	35.2	33.9	1.3	3.7%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F25	35.4	34.1	1.3	3.7%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F25	35.6	34.3	1.3	3.7%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F25	35.9	34.6	1.3	3.6%	YES	98.4	98.4	0.0	0.0%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F25	36.2	34.9	1.3	3.6%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F25	36.7	35.5	1.2	3.3%	YES	98.4	98	0.1	0.4%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F25	37.1	36	1.1	3.0%	YES												
F26	R1	RESIDENTIAL	UNKNOWN	W1/F26	35.4	34.2	1.2	3.4%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F26	35.4	34.2	1.2	3.4%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F26	35.6	34.3	1.3	3.7%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
THE CIRCLE (CONTINUED)																					
			UNKNOWN	W4/F26	35.8	34.5	1.3	3.6%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F26	36	34.8	1.2	3.3%	YES	98.4	98.4	0.0	0.0%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F26	36.3	35.1	1.2	3.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F26	36.8	35.7	1.1	3.0%	YES	98.4	98	0.1	0.4%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F26	37.2	36.1	1.1	3.0%	YES												
F27	R1	RESIDENTIAL	UNKNOWN	W1/F27	35.6	34.4	1.2	3.4%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F27	35.6	34.4	1.2	3.4%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F27	35.8	34.6	1.2	3.4%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F27	36	34.8	1.2	3.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F27	36.2	35	1.2	3.3%	YES	98.4	98.4	0.0	0.0%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F27	36.5	35.3	1.2	3.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F27	36.9	35.8	1.1	3.0%	YES	98.4	98	0.1	0.4%	YES	63	22	59	22	6.3%	0.0%	YES
			UNKNOWN	W8/F27	37.3	36.3	1	2.7%	YES												
F28	R1	RESIDENTIAL	UNKNOWN	W1/F28	35.8	34.7	1.1	3.1%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F28	35.8	34.7	1.1	3.1%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	UNKNOWN	W3/F28	36	34.8	1.2	3.3%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F28	36.2	35	1.2	3.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F28	36.4	35.2	1.2	3.3%	YES	98.4	98.4	0.0	0.0%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F28	36.6	35.5	1.1	3.0%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F28	37	36	1	2.7%	YES	98.4	98	0.1	0.4%	YES	63	22	60	22	4.8%	0.0%	YES
			UNKNOWN	W8/F28	37.4	36.4	1	2.7%	YES												
F29	R1	RESIDENTIAL	UNKNOWN	W1/F29	36	35	1	2.8%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F29	36	35	1	2.8%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F29	36.2	35.1	1.1	3.0%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F29	36.3	35.2	1.1	3.0%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F29	36.5	35.4	1.1	3.0%	YES	98.4	98.4	0.0	0.0%	YES	53	18	49	18	7.5%	0.0%	YES
			UNKNOWN	W6/F29	36.8	35.7	1.1	3.0%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F29	37.2	36.2	1	2.7%	YES	98.4	98	0.1	0.4%	YES	63	22	60	22	4.8%	0.0%	YES
			UNKNOWN	W8/F29	37.5	36.6	0.9	2.4%	YES												
F30	R1	RESIDENTIAL	UNKNOWN	W1/F30	36.2	35.2	1	2.8%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F30	36.2	35.2	1	2.8%	YES												
THE CIRCLE (CONTINUED)																					
	R2	RESIDENTIAL	UNKNOWN	W3/F30	36.3	35.3	1	2.8%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F30	36.5	35.5	1	2.7%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F30	36.7	35.7	1	2.7%	YES	98.4	98.4	0.0	0.0%	YES	53	18	50	18	5.7%	0.0%	YES
			UNKNOWN	W6/F30	36.9	35.9	1	2.7%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F30	37.3	36.3	1	2.7%	YES	98.4	98.1	0.1	0.3%	YES	63	22	60	22	4.8%	0.0%	YES
			UNKNOWN	W8/F30	37.6	36.7	0.9	2.4%	YES												
F31	R1	RESIDENTIAL	UNKNOWN	W1/F31	36.4	35.4	1	2.7%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F31	36.4	35.4	1	2.7%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F31	36.5	35.5	1	2.7%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F31	36.6	35.7	0.9	2.5%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F31	36.8	35.8	1	2.7%	YES	98.4	98.4	0.0	0.0%	YES	54	18	51	18	5.6%	0.0%	YES
			UNKNOWN	W6/F31	37	36.1	0.9	2.4%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F31	37.4	36.5	0.9	2.4%	YES	98.4	98.3	0.0	0.1%	YES	64	22	61	22	4.7%	0.0%	YES
			UNKNOWN	W8/F31	37.7	36.8	0.9	2.4%	YES												
F32	R1	RESIDENTIAL	UNKNOWN	W1/F32	36.6	35.7	0.9	2.5%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F32	36.6	35.6	1	2.7%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F32	36.7	35.7	1	2.7%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F32	36.8	35.9	0.9	2.4%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	UNKNOWN	W5/F32	36.9	36	0.9	2.4%	YES	98.4	98.4	0.0	0.0%	YES	54	18	51	18	5.6%	0.0%	YES
			UNKNOWN	W6/F32	37.2	36.3	0.9	2.4%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F32	37.5	36.6	0.9	2.4%	YES	98.4	98.4	0.0	0.0%	YES	64	22	61	22	4.7%	0.0%	YES
			UNKNOWN	W8/F32	37.7	37	0.7	1.9%	YES												
F33	R1	RESIDENTIAL	UNKNOWN	W1/F33	36.7	35.9	0.8	2.2%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F33	36.7	35.9	0.8	2.2%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F33	36.8	35.9	0.9	2.4%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F33	36.9	36.1	0.8	2.2%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F33	37.1	36.2	0.9	2.4%	YES	98.4	98.4	0.0	0.0%	YES	54	18	51	18	5.6%	0.0%	YES
			UNKNOWN	W6/F33	37.3	36.4	0.9	2.4%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F33	37.6	36.8	0.8	2.1%	YES	98.4	98.4	0.0	0.0%	YES	64	22	61	22	4.7%	0.0%	YES
			UNKNOWN	W8/F33	37.8	37.1	0.7	1.9%	YES												
F34	R1	RESIDENTIAL	UNKNOWN	W1/F34	36.9	36.1	0.8	2.2%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
THE CIRCLE (CONTINUED)																					
			UNKNOWN	W2/F34	36.9	36.1	0.8	2.2%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F34	37	36.1	0.9	2.4%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F34	37.1	36.3	0.8	2.2%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F34	37.2	36.4	0.8	2.2%	YES	98.4	98.4	0.0	0.0%	YES	54	18	51	18	5.6%	0.0%	YES
			UNKNOWN	W6/F34	37.4	36.6	0.8	2.1%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F34	37.7	36.9	0.8	2.1%	YES	98.4	98.4	0.0	0.0%	YES	64	22	61	22	4.7%	0.0%	YES
			UNKNOWN	W8/F34	37.9	37.2	0.7	1.8%	YES												
F35	R1	RESIDENTIAL	UNKNOWN	W1/F35	37.1	36.3	0.8	2.2%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F35	37	36.3	0.7	1.9%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F35	37.1	36.4	0.7	1.9%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F35	37.2	36.5	0.7	1.9%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F35	37.3	36.6	0.7	1.9%	YES	98.4	98.4	0.0	0.0%	YES	54	18	51	18	5.6%	0.0%	YES
			UNKNOWN	W6/F35	37.5	36.8	0.7	1.9%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F35	37.8	37.1	0.7	1.9%	YES	98.4	98.4	0.0	0.0%	YES	64	22	62	22	3.1%	0.0%	YES
			UNKNOWN	W8/F35	38	37.4	0.6	1.6%	YES												
F36	R1	RESIDENTIAL	UNKNOWN	W1/F36	37.2	36.5	0.7	1.9%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F36	37.2	36.5	0.7	1.9%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F36	37.3	36.6	0.7	1.9%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F36	37.4	36.7	0.7	1.9%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F36	37.5	36.8	0.7	1.9%	YES	98.4	98.4	0.0	0.0%	YES	54	18	52	18	3.7%	0.0%	YES
			UNKNOWN	W6/F36	37.6	37	0.6	1.6%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R4	RESIDENTIAL	UNKNOWN	W7/F36	37.9	37.3	0.6	1.6%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F36	38.1	37.5	0.6	1.6%	YES												
F37	R1	RESIDENTIAL	UNKNOWN	W1/F37	37.4	36.8	0.6	1.6%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F37	37.4	36.7	0.7	1.9%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F37	37.4	36.8	0.6	1.6%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F37	37.5	36.9	0.6	1.6%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F37	37.6	37	0.6	1.6%	YES	98.4	98.4	0.0	0.0%	YES	54	18	53	18	1.9%	0.0%	YES
			UNKNOWN	W6/F37	37.7	37.1	0.6	1.6%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F37	38	37.4	0.6	1.6%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F37	38.2	37.6	0.6	1.6%	YES												
THE CIRCLE (CONTINUED)																					
F38	R1	RESIDENTIAL	UNKNOWN	W1/F38	37.5	37	0.5	1.3%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F38	37.5	36.9	0.6	1.6%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F38	37.6	37	0.6	1.6%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F38	37.6	37.1	0.5	1.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F38	37.7	37.2	0.5	1.3%	YES	98.4	98.4	0.0	0.0%	YES	54	18	53	18	1.9%	0.0%	YES
			UNKNOWN	W6/F38	37.9	37.3	0.6	1.6%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F38	38.1	37.6	0.5	1.3%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F38	38.2	37.8	0.4	1.0%	YES												
F39	R1	RESIDENTIAL	UNKNOWN	W1/F39	37.7	37.2	0.5	1.3%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F39	37.6	37.1	0.5	1.3%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F39	37.7	37.2	0.5	1.3%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F39	37.8	37.2	0.6	1.6%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F39	37.8	37.3	0.5	1.3%	YES	98.4	98.4	0.0	0.0%	YES	54	18	53	18	1.9%	0.0%	YES
			UNKNOWN	W6/F39	38	37.5	0.5	1.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F39	38.2	37.7	0.5	1.3%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F39	38.3	37.9	0.4	1.0%	YES												
F40	R1	RESIDENTIAL	UNKNOWN	W1/F40	37.8	37.3	0.5	1.3%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F40	37.8	37.3	0.5	1.3%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F40	37.8	37.3	0.5	1.3%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F40	37.9	37.4	0.5	1.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F40	37.9	37.5	0.4	1.1%	YES	98.4	98.4	0.0	0.0%	YES	54	18	53	18	1.9%	0.0%	YES
			UNKNOWN	W6/F40	38.1	37.6	0.5	1.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F40	38.2	37.8	0.4	1.0%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F40	38.4	38	0.4	1.0%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F41	R1	RESIDENTIAL	UNKNOWN	W1/F41	37.9	37.5	0.4	1.1%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F41	37.9	37.5	0.4	1.1%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F41	37.9	37.5	0.4	1.1%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F41	38	37.6	0.4	1.1%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F41	38	37.6	0.4	1.1%	YES	98.4	98.4	0.0	0.0%	YES	54	18	54	18	0.0%	0.0%	YES
			UNKNOWN	W6/F41	38.1	37.8	0.3	0.8%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F41	38.3	37.9	0.4	1.0%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
THE CIRCLE (CONTINUED)																					
			UNKNOWN	W8/F41	38.4	38.1	0.3	0.8%	YES												
F42	R1	RESIDENTIAL	UNKNOWN	W1/F42	38	37.7	0.3	0.8%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F42	38	37.6	0.4	1.1%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F42	38	37.7	0.3	0.8%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F42	38.1	37.7	0.4	1.0%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F42	38.1	37.8	0.3	0.8%	YES	98.4	98.4	0.0	0.0%	YES	54	18	54	18	0.0%	0.0%	YES
			UNKNOWN	W6/F42	38.2	37.9	0.3	0.8%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F42	38.4	38.1	0.3	0.8%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F42	38.5	38.2	0.3	0.8%	YES												
F43	R1	RESIDENTIAL	UNKNOWN	W1/F43	38.1	37.9	0.2	0.5%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F43	38.1	37.8	0.3	0.8%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F43	38.1	37.8	0.3	0.8%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F43	38.2	37.9	0.3	0.8%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F43	38.2	37.9	0.3	0.8%	YES	98.4	98.4	0.0	0.0%	YES	54	18	54	18	0.0%	0.0%	YES
			UNKNOWN	W6/F43	38.3	38	0.3	0.8%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F43	38.4	38.2	0.2	0.5%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F43	38.6	38.3	0.3	0.8%	YES												
F44	R1	RESIDENTIAL	UNKNOWN	W1/F44	38.3	38	0.3	0.8%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F44	38.2	38	0.2	0.5%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F44	38.2	38	0.2	0.5%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F44	38.3	38	0.3	0.8%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F44	38.3	38.1	0.2	0.5%	YES	98.4	98.4	0.0	0.0%	YES	54	18	54	18	0.0%	0.0%	YES
			UNKNOWN	W6/F44	38.4	38.2	0.2	0.5%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F44	38.5	38.3	0.2	0.5%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F44	38.6	38.4	0.2	0.5%	YES												
F45	R1	RESIDENTIAL	UNKNOWN	W1/F45	38.4	38.2	0.2	0.5%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F45	38.3	38.1	0.2	0.5%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	UNKNOWN	W3/F45	38.3	38.1	0.2	0.5%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F45	38.4	38.2	0.2	0.5%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F45	38.4	38.2	0.2	0.5%	YES	98.4	98.4	0.0	0.0%	YES	54	18	54	18	0.0%	0.0%	YES
			UNKNOWN	W6/F45	38.5	38.3	0.2	0.5%	YES												
THE CIRCLE (CONTINUED)																					
	R4	RESIDENTIAL	UNKNOWN	W7/F45	38.6	38.4	0.2	0.5%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F45	38.7	38.5	0.2	0.5%	YES												
F46	R1	RESIDENTIAL	UNKNOWN	W1/F46	38.4	38.3	0.1	0.3%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F46	38.4	38.3	0.1	0.3%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F46	38.4	38.3	0.1	0.3%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F46	38.4	38.3	0.1	0.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F46	38.5	38.3	0.2	0.5%	YES	98.4	98.4	0.0	0.0%	YES	54	18	54	18	0.0%	0.0%	YES
			UNKNOWN	W6/F46	38.5	38.4	0.1	0.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F46	38.6	38.5	0.1	0.3%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F46	38.7	38.6	0.1	0.3%	YES												
F47	R1	RESIDENTIAL	UNKNOWN	W1/F47	38.5	38.4	0.1	0.3%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F47	38.5	38.4	0.1	0.3%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F47	38.5	38.4	0.1	0.3%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F47	38.5	38.4	0.1	0.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F47	38.5	38.5	0	0.0%	YES	98.4	98.4	0.0	0.0%	YES	54	18	54	18	0.0%	0.0%	YES
			UNKNOWN	W6/F47	38.6	38.5	0.1	0.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F47	38.7	38.6	0.1	0.3%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F47	38.8	38.7	0.1	0.3%	YES												
F48	R1	RESIDENTIAL	UNKNOWN	W1/F48	38.6	38.5	0.1	0.3%	YES	98.5	98.5	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W2/F48	38.5	38.5	0	0.0%	YES												
	R2	RESIDENTIAL	UNKNOWN	W3/F48	38.6	38.5	0.1	0.3%	YES	98.6	98.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			UNKNOWN	W4/F48	38.6	38.5	0.1	0.3%	YES												
	R3	RESIDENTIAL	UNKNOWN	W5/F48	38.6	38.6	0	0.0%	YES	98.4	98.4	0.0	0.0%	YES	54	18	54	18	0.0%	0.0%	YES
			UNKNOWN	W6/F48	38.7	38.6	0.1	0.3%	YES												
	R4	RESIDENTIAL	UNKNOWN	W7/F48	38.8	38.7	0.1	0.3%	YES	98.4	98.4	0.0	0.0%	YES	64	22	64	22	0.0%	0.0%	YES
			UNKNOWN	W8/F48	38.8	38.8	0	0.0%	YES												
THE BLADE																					
F01	R1	RESIDENTIAL	UNKNOWN	W1/F01	23.9	23.3	0.6	2.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F01	23.9	23.4	0.5	2.1%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
	R3	RESIDENTIAL	UNKNOWN	W3/F01	24	23.6	0.4	1.7%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
THE BLADE (CONTINUED)																					
			UNKNOWN	W4/F01	20.8	19.3	1.5	7.2%	YES												
			UNKNOWN	W5/F01	20.3	18.8	1.5	7.4%	YES												
F02	R1	RESIDENTIAL	UNKNOWN	W1/F02	24.5	23.9	0.6	2.4%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F02	24.6	24.1	0.5	2.0%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F02	24.7	24.3	0.4	1.6%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F02	21.1	19.5	1.6	7.6%	YES												
			UNKNOWN	W5/F02	20.5	19	1.5	7.3%	YES												
F03	R1	RESIDENTIAL	UNKNOWN	W1/F03	25.2	24.6	0.6	2.4%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F03	25.3	24.8	0.5	2.0%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F03	25.3	25	0.3	1.2%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F03	21.3	19.8	1.5	7.0%	YES												
			UNKNOWN	W5/F03	20.7	19.2	1.5	7.2%	YES												
F04	R1	RESIDENTIAL	UNKNOWN	W1/F04	25.9	25.4	0.5	1.9%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F04	26	25.5	0.5	1.9%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F04	26	25.7	0.3	1.2%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F04	21.5	20	1.5	7.0%	YES												
			UNKNOWN	W5/F04	20.9	19.4	1.5	7.2%	YES												
F05	R1	RESIDENTIAL	UNKNOWN	W1/F05	26.7	26.1	0.6	2.2%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F05	26.7	26.2	0.5	1.9%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F05	26.7	26.4	0.3	1.1%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F05	21.6	20.2	1.4	6.5%	YES												
			UNKNOWN	W5/F05	21.1	19.6	1.5	7.1%	YES												
F06	R1	RESIDENTIAL	UNKNOWN	W1/F06	27.4	26.8	0.6	2.2%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F06	27.4	26.9	0.5	1.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F06	27.4	27	0.4	1.5%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F06	21.8	20.4	1.4	6.4%	YES												
			UNKNOWN	W5/F06	21.2	19.8	1.4	6.6%	YES												
F07	R1	RESIDENTIAL	UNKNOWN	W1/F07	28.1	27.6	0.5	1.8%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F07	28.1	27.6	0.5	1.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F07	28.1	27.7	0.4	1.4%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F07	22	20.5	1.5	6.8%	YES												
THE BLADE (CONTINUED)																					
			UNKNOWN	W5/F07	21.4	20	1.4	6.5%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
F08	R1	RESIDENTIAL	UNKNOWN	W1/F08	28.9	28.3	0.6	2.1%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F08	28.8	28.3	0.5	1.7%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F08	28.8	28.4	0.4	1.4%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F08	22.1	20.7	1.4	6.3%	YES												
			UNKNOWN	W5/F08	21.5	20.2	1.3	6.0%	YES												
F09	R1	RESIDENTIAL	UNKNOWN	W1/F09	29.6	29.1	0.5	1.7%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F09	29.5	29.1	0.4	1.4%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F09	29.5	29.2	0.3	1.0%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F09	22.3	20.9	1.4	6.3%	YES												
			UNKNOWN	W5/F09	21.7	20.3	1.4	6.5%	YES												
F10	R1	RESIDENTIAL	UNKNOWN	W1/F10	30.4	29.8	0.6	2.0%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F10	30.2	29.8	0.4	1.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F10	30.2	29.9	0.3	1.0%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F10	22.4	21.1	1.3	5.8%	YES												
			UNKNOWN	W5/F10	21.8	20.5	1.3	6.0%	YES												
F11	R1	RESIDENTIAL	UNKNOWN	W1/F11	31.1	30.6	0.5	1.6%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F11	31	30.6	0.4	1.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F11	30.9	30.6	0.3	1.0%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F11	22.6	21.3	1.3	5.8%	YES												
			UNKNOWN	W5/F11	22	20.7	1.3	5.9%	YES												
F12	R1	RESIDENTIAL	UNKNOWN	W1/F12	31.9	31.3	0.6	1.9%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F12	31.7	31.3	0.4	1.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F12	31.6	31.3	0.3	0.9%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F12	22.8	21.5	1.3	5.7%	YES												
			UNKNOWN	W5/F12	22.1	20.9	1.2	5.4%	YES												
F13	R1	RESIDENTIAL	UNKNOWN	W1/F13	32.6	32.1	0.5	1.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F13	32.5	32	0.5	1.5%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F13	32.3	32	0.3	0.9%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F13	22.9	21.7	1.2	5.2%	YES												
			UNKNOWN	W5/F13	22.3	21.1	1.2	5.4%	YES												
THE BLADE (CONTINUED)																					
F14	R1	RESIDENTIAL	UNKNOWN	W1/F14	33.2	32.7	0.5	1.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F14	33	32.6	0.4	1.2%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F14	32.9	32.6	0.3	0.9%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F14	23.1	21.9	1.2	5.2%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			UNKNOWN	W5/F14	22.4	21.2	1.2	5.4%	YES												
F15	R1	RESIDENTIAL	UNKNOWN	W1/F15	33.8	33.3	0.5	1.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F15	33.6	33.2	0.4	1.2%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F15	33.5	33.2	0.3	0.9%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F15	23.3	22.1	1.2	5.2%	YES												
			UNKNOWN	W5/F15	22.6	21.4	1.2	5.3%	YES												
F16	R1	RESIDENTIAL	UNKNOWN	W1/F16	34.3	33.8	0.5	1.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F16	34.1	33.8	0.3	0.9%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F16	34	33.7	0.3	0.9%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F16	23.4	22.3	1.1	4.7%	YES												
			UNKNOWN	W5/F16	22.7	21.6	1.1	4.8%	YES												
F17	R1	RESIDENTIAL	UNKNOWN	W1/F17	34.8	34.3	0.5	1.4%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F17	34.6	34.2	0.4	1.2%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F17	34.4	34.2	0.2	0.6%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F17	23.6	22.5	1.1	4.7%	YES												
			UNKNOWN	W5/F17	22.9	21.8	1.1	4.8%	YES												
F18	R1	RESIDENTIAL	UNKNOWN	W1/F18	35.2	34.7	0.5	1.4%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F18	34.9	34.6	0.3	0.9%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F18	34.8	34.5	0.3	0.9%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F18	23.8	22.7	1.1	4.6%	YES												
			UNKNOWN	W5/F18	23.1	22	1.1	4.8%	YES												
F19	R1	RESIDENTIAL	UNKNOWN	W1/F19	35.5	35.1	0.4	1.1%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F19	35.3	35	0.3	0.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F19	35.2	34.9	0.3	0.9%	YES	100	100	0.0	0.0%	YES	36	15	35	15	2.8%	0.0%	YES
			UNKNOWN	W4/F19	23.9	22.9	1	4.2%	YES												
			UNKNOWN	W5/F19	23.2	22.2	1	4.3%	YES												
F20	R1	RESIDENTIAL	UNKNOWN	W1/F20	35.8	35.4	0.4	1.1%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
THE BLADE (CONTINUED)																					
	R2	RESIDENTIAL	UNKNOWN	W2/F20	35.6	35.3	0.3	0.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F20	35.4	35.2	0.2	0.6%	YES	100	100	0.0	0.0%	YES	37	15	36	15	2.7%	0.0%	YES
			UNKNOWN	W4/F20	24.1	23.1	1	4.1%	YES												
			UNKNOWN	W5/F20	23.4	22.4	1	4.3%	YES												
F21	R1	RESIDENTIAL	UNKNOWN	W1/F21	35.9	35.5	0.4	1.1%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F21	35.8	35.4	0.4	1.1%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F21	35.6	35.3	0.3	0.8%	YES	100	100	0.0	0.0%	YES	37	15	36	15	2.7%	0.0%	YES

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			UNKNOWN	W4/F21	24.3	23.3	1	4.1%	YES												
			UNKNOWN	W5/F21	23.6	22.6	1	4.2%	YES												
F22	R1	RESIDENTIAL	UNKNOWN	W1/F22	36.1	35.7	0.4	1.1%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F22	35.9	35.6	0.3	0.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F22	35.7	35.5	0.2	0.6%	YES	100	100	0.0	0.0%	YES	37	15	36	15	2.7%	0.0%	YES
			UNKNOWN	W4/F22	24.5	23.5	1	4.1%	YES												
			UNKNOWN	W5/F22	23.7	22.8	0.9	3.8%	YES												
F23	R1	RESIDENTIAL	UNKNOWN	W1/F23	36.2	35.9	0.3	0.8%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F23	36	35.7	0.3	0.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F23	35.9	35.6	0.3	0.8%	YES	100	100	0.0	0.0%	YES	39	15	38	15	2.6%	0.0%	YES
			UNKNOWN	W4/F23	24.7	23.8	0.9	3.6%	YES												
			UNKNOWN	W5/F23	23.9	23	0.9	3.8%	YES												
F24	R1	RESIDENTIAL	UNKNOWN	W1/F24	36.4	36	0.4	1.1%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F24	36.2	35.9	0.3	0.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F24	36	35.8	0.2	0.6%	YES	100	100	0.0	0.0%	YES	39	15	38	15	2.6%	0.0%	YES
			UNKNOWN	W4/F24	24.9	24	0.9	3.6%	YES												
			UNKNOWN	W5/F24	24.1	23.3	0.8	3.3%	YES												
F25	R1	RESIDENTIAL	UNKNOWN	W1/F25	36.5	36.2	0.3	0.8%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F25	36.3	36	0.3	0.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F25	36.2	36	0.2	0.6%	YES	100	100	0.0	0.0%	YES	39	15	38	15	2.6%	0.0%	YES
			UNKNOWN	W4/F25	25.1	24.2	0.9	3.6%	YES												
			UNKNOWN	W5/F25	24.3	23.5	0.8	3.3%	YES												
F26	R1	RESIDENTIAL	UNKNOWN	W1/F26	36.7	36.4	0.3	0.8%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F26	36.5	36.3	0.2	0.5%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
THE BLADE (CONTINUED)																					
	R3	RESIDENTIAL	UNKNOWN	W3/F26	36.4	36.1	0.3	0.8%	YES	100	100	0.0	0.0%	YES	39	15	38	15	2.6%	0.0%	YES
			UNKNOWN	W4/F26	25.3	24.5	0.8	3.2%	YES												
			UNKNOWN	W5/F26	24.5	23.7	0.8	3.3%	YES												
F27	R1	RESIDENTIAL	UNKNOWN	W1/F27	36.8	36.5	0.3	0.8%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F27	36.7	36.4	0.3	0.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F27	36.5	36.3	0.2	0.5%	YES	100	100	0.0	0.0%	YES	39	15	38	15	2.6%	0.0%	YES
			UNKNOWN	W4/F27	25.5	24.7	0.8	3.1%	YES												
			UNKNOWN	W5/F27	24.7	24	0.7	2.8%	YES												
F28	R1	RESIDENTIAL	UNKNOWN	W1/F28	37	36.7	0.3	0.8%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F28	36.8	36.5	0.3	0.8%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	UNKNOWN	W3/F28	36.7	36.5	0.2	0.5%	YES	100	100	0.0	0.0%	YES	39	15	38	15	2.6%	0.0%	YES
			UNKNOWN	W4/F28	25.8	25	0.8	3.1%	YES												
			UNKNOWN	W5/F28	25	24.3	0.7	2.8%	YES												
F29	R1	RESIDENTIAL	UNKNOWN	W1/F29	37.1	36.9	0.2	0.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F29	36.9	36.7	0.2	0.5%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F29	36.9	36.7	0.2	0.5%	YES	100	100	0.0	0.0%	YES	39	15	38	15	2.6%	0.0%	YES
			UNKNOWN	W4/F29	26	25.3	0.7	2.7%	YES												
			UNKNOWN	W5/F29	25.2	24.5	0.7	2.8%	YES												
F30	R1	RESIDENTIAL	UNKNOWN	W1/F30	37.3	37	0.3	0.8%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F30	37.1	36.9	0.2	0.5%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F30	37	36.8	0.2	0.5%	YES	100	100	0.0	0.0%	YES	40	15	39	15	2.5%	0.0%	YES
			UNKNOWN	W4/F30	26.2	25.6	0.6	2.3%	YES												
			UNKNOWN	W5/F30	25.5	24.8	0.7	2.7%	YES												
F31	R1	RESIDENTIAL	UNKNOWN	W1/F31	37.4	37.2	0.2	0.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F31	37.2	37	0.2	0.5%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F31	37.1	37	0.1	0.3%	YES	100	100	0.0	0.0%	YES	40	15	39	15	2.5%	0.0%	YES
			UNKNOWN	W4/F31	26.5	25.9	0.6	2.3%	YES												
			UNKNOWN	W5/F31	25.7	25.1	0.6	2.3%	YES												
F32	R1	RESIDENTIAL	UNKNOWN	W1/F32	37.5	37.3	0.2	0.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F32	37.4	37.2	0.2	0.5%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F32	37.3	37.1	0.2	0.5%	YES	100	100	0.0	0.0%	YES	40	15	39	15	2.5%	0.0%	YES
THE BLADE (CONTINUED)																					
			UNKNOWN	W4/F32	26.8	26.2	0.6	2.2%	YES												
			UNKNOWN	W5/F32	26	25.4	0.6	2.3%	YES												
F33	R1	RESIDENTIAL	UNKNOWN	W1/F33	37.7	37.5	0.2	0.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F33	37.5	37.4	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F33	37.4	37.3	0.1	0.3%	YES	100	100	0.0	0.0%	YES	41	15	40	15	2.4%	0.0%	YES
			UNKNOWN	W4/F33	27.1	26.6	0.5	1.8%	YES												
			UNKNOWN	W5/F33	26.3	25.8	0.5	1.9%	YES												
F34	R1	RESIDENTIAL	UNKNOWN	W1/F34	37.8	37.6	0.2	0.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F34	37.6	37.5	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F34	37.6	37.4	0.2	0.5%	YES	100	100	0.0	0.0%	YES	41	15	40	15	2.4%	0.0%	YES
			UNKNOWN	W4/F34	27.5	27	0.5	1.8%	YES												
			UNKNOWN	W5/F34	26.7	26.2	0.5	1.9%	YES												
F35	R1	RESIDENTIAL	UNKNOWN	W1/F35	37.9	37.8	0.1	0.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R2	RESIDENTIAL	UNKNOWN	W2/F35	37.8	37.6	0.2	0.5%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F35	37.7	37.6	0.1	0.3%	YES	100	100	0.0	0.0%	YES	41	15	40	15	2.4%	0.0%	YES
			UNKNOWN	W4/F35	27.9	27.4	0.5	1.8%	YES												
			UNKNOWN	W5/F35	27.1	26.6	0.5	1.8%	YES												
F36	R1	RESIDENTIAL	UNKNOWN	W1/F36	38.1	37.9	0.2	0.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F36	37.9	37.8	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F36	37.9	37.8	0.1	0.3%	YES	100	100	0.0	0.0%	YES	42	15	41	15	2.4%	0.0%	YES
			UNKNOWN	W4/F36	28.3	27.9	0.4	1.4%	YES												
			UNKNOWN	W5/F36	27.5	27.1	0.4	1.5%	YES												
F37	R1	RESIDENTIAL	UNKNOWN	W1/F37	38.2	38	0.2	0.5%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F37	38	37.9	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F37	38	37.9	0.1	0.3%	YES	100	100	0.0	0.0%	YES	44	15	43	15	2.3%	0.0%	YES
			UNKNOWN	W4/F37	28.8	28.4	0.4	1.4%	YES												
			UNKNOWN	W5/F37	28	27.6	0.4	1.4%	YES												
F38	R1	RESIDENTIAL	UNKNOWN	W1/F38	38.3	38.2	0.1	0.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F38	38.2	38.1	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F38	38.1	38.1	0	0.0%	YES	100	100	0.0	0.0%	YES	45	15	44	15	2.2%	0.0%	YES
			UNKNOWN	W4/F38	29.4	29	0.4	1.4%	YES												
THE BLADE (CONTINUED)																					
			UNKNOWN	W5/F38	28.6	28.2	0.4	1.4%	YES												
F39	R1	RESIDENTIAL	UNKNOWN	W1/F39	38.4	38.3	0.1	0.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F39	38.3	38.2	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F39	38.3	38.2	0.1	0.3%	YES	100	100	0.0	0.0%	YES	47	15	46	15	2.1%	0.0%	YES
			UNKNOWN	W4/F39	30	29.7	0.3	1.0%	YES												
			UNKNOWN	W5/F39	29.2	28.9	0.3	1.0%	YES												
F40	R1	RESIDENTIAL	UNKNOWN	W1/F40	38.5	38.4	0.1	0.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F40	38.4	38.3	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F40	38.4	38.3	0.1	0.3%	YES	100	100	0.0	0.0%	YES	49	15	48	15	2.0%	0.0%	YES
			UNKNOWN	W4/F40	30.7	30.4	0.3	1.0%	YES												
			UNKNOWN	W5/F40	29.9	29.7	0.2	0.7%	YES												
F41	R1	RESIDENTIAL	UNKNOWN	W1/F41	38.6	38.5	0.1	0.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F41	38.5	38.4	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F41	38.5	38.4	0.1	0.3%	YES	100	100	0.0	0.0%	YES	51	15	50	15	2.0%	0.0%	YES
			UNKNOWN	W4/F41	31.4	31.2	0.2	0.6%	YES												
			UNKNOWN	W5/F41	30.7	30.5	0.2	0.7%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F42	R1	RESIDENTIAL	UNKNOWN	W1/F42	38.7	38.6	0.1	0.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F42	38.6	38.5	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F42	38.6	38.5	0.1	0.3%	YES	100	100	0.0	0.0%	YES	52	15	52	15	0.0%	0.0%	YES
			UNKNOWN	W4/F42	32.3	32.1	0.2	0.6%	YES												
			UNKNOWN	W5/F42	31.7	31.5	0.2	0.6%	YES												
F43	R1	RESIDENTIAL	UNKNOWN	W1/F43	38.7	38.6	0.1	0.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F43	38.6	38.6	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F43	38.6	38.6	0	0.0%	YES	100	100	0.0	0.0%	YES	55	16	55	16	0.0%	0.0%	YES
			UNKNOWN	W4/F43	33.2	33.1	0.1	0.3%	YES												
			UNKNOWN	W5/F43	32.7	32.5	0.2	0.6%	YES												
F44	R1	RESIDENTIAL	UNKNOWN	W1/F44	38.8	38.7	0.1	0.3%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F44	38.7	38.7	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F44	38.7	38.7	0	0.0%	YES	100	100	0.0	0.0%	YES	57	17	57	17	0.0%	0.0%	YES
			UNKNOWN	W4/F44	34.3	34.1	0.2	0.6%	YES												
			UNKNOWN	W5/F44	33.8	33.6	0.2	0.6%	YES												
THE BLADE (CONTINUED)																					
F45	R1	RESIDENTIAL	UNKNOWN	W1/F45	38.8	38.8	0	0.0%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F45	38.8	38.7	0.1	0.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F45	38.8	38.8	0	0.0%	YES	100	100	0.0	0.0%	YES	57	17	57	17	0.0%	0.0%	YES
			UNKNOWN	W4/F45	35.3	35.2	0.1	0.3%	YES												
			UNKNOWN	W5/F45	34.9	34.8	0.1	0.3%	YES												
F46	R1	RESIDENTIAL	UNKNOWN	W1/F46	38.9	38.9	0	0.0%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F46	38.8	38.8	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F46	38.9	38.9	0	0.0%	YES	100	100	0.0	0.0%	YES	60	20	60	20	0.0%	0.0%	YES
			UNKNOWN	W4/F46	36.4	36.3	0.1	0.3%	YES												
			UNKNOWN	W5/F46	36	36	0	0.0%	YES												
F47	R1	RESIDENTIAL	UNKNOWN	W1/F47	38.9	38.9	0	0.0%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN	W2/F47	38.9	38.9	0	0.0%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	UNKNOWN	W3/F47	39	39	0	0.0%	YES	100	100	0.0	0.0%	YES	60	20	60	20	0.0%	0.0%	YES
			UNKNOWN	W4/F47	37.4	37.3	0.1	0.3%	YES												
			UNKNOWN	W5/F47	37.2	37.1	0.1	0.3%	YES												
ELIZABETH TOWER C1																					
F01	R1	RESIDENTIAL	BEDROOM	W1/F01	8.4	8.4	0	0.0%	YES	85.1	85.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F01	10.5	9.6	0.9	8.6%	YES	71.6	71.5	0.0	0.1%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	BEDROOM	W3/F01	9.3	9.3	0	0.0%	YES	73.2	73.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	BEDROOM	W4/F01	10.5	9.5	1	9.5%	YES	72.1	72.1	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R5	RESIDENTIAL	BEDROOM	W5/F01	12.1	11.1	1	8.3%	YES	84.2	84.2	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R6	RESIDENTIAL	BEDROOM	W6/F01	12.3	11.3	1	8.1%	YES	91.3	91.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			BEDROOM	W7/F01	21.6	20.2	1.4	6.5%	YES												
			BEDROOM	W8/F01	21.6	20.2	1.4	6.5%	YES												
	R7	RESIDENTIAL	BEDROOM	W9/F01	8.8	8.1	0.7	8.0%	YES	83.3	83	0.0	0.4%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F02	R1	RESIDENTIAL	LKD	W1/F02	2.6	2.2	0.4	15.4%	YES	99.3	99.3	0.0	0.0%	YES	5	2	3	1	40.0%	50.0%	YES
			LKD	W2/F02	12.5	11.4	1.1	8.8%	YES												
			LKD	W3/F02	10.5	10.4	0.1	1.0%	YES												
			LKD	W5/F02	2.1	2.1	0	0.0%	YES												
	R2	RESIDENTIAL	BEDROOM	W4/F02	1.9	1.8	0.1	5.3%	YES	99.9	99.9	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ELIZABETH TOWER C1 (CONTINUED)																					
F03	R1	RESIDENTIAL	LKD	W1/F03	23.3	22.2	1.1	4.7%	YES	88.5	88.5	0.0	0.0%	YES	49	17	45	16	8.2%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F03	24.1	22.9	1.2	5.0%	YES	100	100	0.0	0.0%	YES	52	19	50	18	3.8%	5.3%	YES
			LKD	W3/F03	24.4	23.2	1.2	4.9%	YES												
			LKD	W4/F03	24.7	23.4	1.3	5.3%	YES												
			LKD	W5/F03	25	23.7	1.3	5.2%	YES												
			LKD	W6/F03	30.2	29	1.2	4.0%	YES												
			LKD	W7/F03	30.4	29.1	1.3	4.3%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F03	22.3	21.2	1.1	4.9%	YES	99.7	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F04	R1	RESIDENTIAL	LKD	W1/F04	23.5	22.4	1.1	4.7%	YES	88.5	88.5	0.0	0.0%	YES	49	17	46	16	6.1%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F04	24.2	23	1.2	5.0%	YES	100	100	0.0	0.0%	YES	52	19	50	18	3.8%	5.3%	YES
			LKD	W3/F04	24.5	23.3	1.2	4.9%	YES												
			LKD	W4/F04	24.8	23.6	1.2	4.8%	YES												
			LKD	W5/F04	25.1	23.8	1.3	5.2%	YES												
			LKD	W6/F04	30.7	29.4	1.3	4.2%	YES												
			LKD	W7/F04	30.8	29.5	1.3	4.2%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F04	22.4	21.3	1.1	4.9%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F05	R1	RESIDENTIAL	LKD	W1/F05	23.6	22.5	1.1	4.7%	YES	88.5	88.5	0.0	0.0%	YES	50	17	47	16	6.0%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F05	24.3	23.2	1.1	4.5%	YES	100	100	0.0	0.0%	YES	52	19	50	18	3.8%	5.3%	YES
			LKD	W3/F05	24.7	23.5	1.2	4.9%	YES												
			LKD	W4/F05	24.9	23.7	1.2	4.8%	YES												
			LKD	W5/F05	25.2	23.9	1.3	5.2%	YES												
			LKD	W6/F05	31	29.7	1.3	4.2%	YES												

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX.		PR.		LOSS %		MEETS CRITERIA
															ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER	
			LKD	W7/F05	31.1	29.9	1.2	3.9%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F05	22.5	21.5	1	4.4%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F06	R1	RESIDENTIAL	LKD	W1/F06	23.7	22.6	1.1	4.6%	YES	88.5	88.5	0.0	0.0%	YES	50	17	47	16	6.0%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F06	24.4	23.3	1.1	4.5%	YES	100	100	0.0	0.0%	YES	53	19	51	18	3.8%	5.3%	YES
			LKD	W3/F06	24.8	23.6	1.2	4.8%	YES												
			LKD	W4/F06	25	23.8	1.2	4.8%	YES												
			LKD	W5/F06	25.3	24	1.3	5.1%	YES												
			LKD	W6/F06	31.3	30.1	1.2	3.8%	YES												
			LKD	W7/F06	31.5	30.2	1.3	4.1%	YES												
ELIZABETH TOWER C1 (CONTINUED)																					
	R3	RESIDENTIAL	BEDROOM	W8/F06	22.7	21.6	1.1	4.8%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F07	R1	RESIDENTIAL	LKD	W1/F07	23.8	22.7	1.1	4.6%	YES	88.6	88.6	0.0	0.0%	YES	51	17	48	16	5.9%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F07	24.5	23.4	1.1	4.5%	YES	100	100	0.0	0.0%	YES	54	19	52	18	3.7%	5.3%	YES
			LKD	W3/F07	24.9	23.7	1.2	4.8%	YES												
			LKD	W4/F07	25.1	23.9	1.2	4.8%	YES												
			LKD	W5/F07	25.4	24.2	1.2	4.7%	YES												
			LKD	W6/F07	31.6	30.4	1.2	3.8%	YES												
			LKD	W7/F07	31.7	30.5	1.2	3.8%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F07	22.8	21.7	1.1	4.8%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F08	R1	RESIDENTIAL	LKD	W1/F08	23.9	22.8	1.1	4.6%	YES	88.6	88.6	0.0	0.0%	YES	51	17	48	16	5.9%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F08	24.7	23.5	1.2	4.9%	YES	100	100	0.0	0.0%	YES	55	19	53	18	3.6%	5.3%	YES
			LKD	W3/F08	25	23.8	1.2	4.8%	YES												
			LKD	W4/F08	25.2	24	1.2	4.8%	YES												
			LKD	W5/F08	25.5	24.3	1.2	4.7%	YES												
			LKD	W6/F08	31.9	30.7	1.2	3.8%	YES												
			LKD	W7/F08	32	30.8	1.2	3.7%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F08	22.9	21.8	1.1	4.8%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F09	R1	RESIDENTIAL	LKD	W1/F09	24	22.9	1.1	4.6%	YES	88.6	88.6	0.0	0.0%	YES	51	17	48	16	5.9%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F09	24.8	23.6	1.2	4.8%	YES	100	100	0.0	0.0%	YES	55	19	53	18	3.6%	5.3%	YES
			LKD	W3/F09	25.1	23.9	1.2	4.8%	YES												
			LKD	W4/F09	25.3	24.2	1.1	4.3%	YES												
			LKD	W5/F09	25.6	24.4	1.2	4.7%	YES												
			LKD	W6/F09	32.2	31	1.2	3.7%	YES												
			LKD	W7/F09	32.3	31.1	1.2	3.7%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F09	23	21.9	1.1	4.8%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
F10	R1	RESIDENTIAL	LKD	W1/F10	24.1	23.1	1	4.1%	YES	88.6	88.6	0.0	0.0%	YES	51	17	48	16	5.9%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F10	24.9	23.8	1.1	4.4%	YES	100	100	0.0	0.0%	YES	56	19	54	18	3.6%	5.3%	YES
			LKD	W3/F10	25.2	24	1.2	4.8%	YES												
			LKD	W4/F10	25.4	24.3	1.1	4.3%	YES												
			LKD	W5/F10	25.7	24.5	1.2	4.7%	YES												
			LKD	W6/F10	32.4	31.2	1.2	3.7%	YES												
ELIZABETH TOWER C1 (CONTINUED)																					
			LKD	W7/F10	32.5	31.4	1.1	3.4%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F10	23.1	22	1.1	4.8%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F11	R1	RESIDENTIAL	LKD	W1/F11	24.2	23.2	1	4.1%	YES	88.6	88.6	0.0	0.0%	YES	51	17	48	16	5.9%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F11	25	23.9	1.1	4.4%	YES	100	100	0.0	0.0%	YES	56	19	54	18	3.6%	5.3%	YES
			LKD	W3/F11	25.3	24.2	1.1	4.3%	YES												
			LKD	W4/F11	25.5	24.4	1.1	4.3%	YES												
			LKD	W5/F11	25.8	24.6	1.2	4.7%	YES												
			LKD	W6/F11	32.7	31.5	1.2	3.7%	YES												
			LKD	W7/F11	32.8	31.6	1.2	3.7%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F11	23.2	22.2	1	4.3%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F12	R1	RESIDENTIAL	LKD	W1/F12	24.3	23.3	1	4.1%	YES	88.5	88.5	0.0	0.0%	YES	51	17	48	16	5.9%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F12	25.1	24	1.1	4.4%	YES	100	100	0.0	0.0%	YES	56	19	54	18	3.6%	5.3%	YES
			LKD	W3/F12	25.4	24.3	1.1	4.3%	YES												
			LKD	W4/F12	25.7	24.5	1.2	4.7%	YES												
			LKD	W5/F12	25.9	24.8	1.1	4.2%	YES												
			LKD	W6/F12	32.9	31.8	1.1	3.3%	YES												
			LKD	W7/F12	33	31.9	1.1	3.3%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F12	23.3	22.3	1	4.3%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F13	R1	RESIDENTIAL	LKD	W1/F13	24.4	23.4	1	4.1%	YES	88.5	88.5	0.0	0.0%	YES	51	17	48	16	5.9%	5.9%	YES
	R2	RESIDENTIAL	LKD	W2/F13	25.2	24.1	1.1	4.4%	YES	100	100	0.0	0.0%	YES	56	19	54	18	3.6%	5.3%	YES
			LKD	W3/F13	25.5	24.4	1.1	4.3%	YES												
			LKD	W4/F13	25.8	24.7	1.1	4.3%	YES												
			LKD	W5/F13	26.1	24.9	1.2	4.6%	YES												
			LKD	W6/F13	33.2	32	1.2	3.6%	YES												
			LKD	W7/F13	33.3	32.2	1.1	3.3%	YES												
	R3	RESIDENTIAL	BEDROOM	W8/F13	23.4	22.4	1	4.3%	YES	99.8	99.7	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F14	R1	RESIDENTIAL	BEDROOM	W1/F14	24.4	23.4	1	4.1%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F14	25	24	1	4.0%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

					VSC (WINDOW)					NSL					APSH (ROOM)						
FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	EX. %	PR. %	LOSS	LOSS %	MEETS CRITERIA	EX. %	PR. %	LOSS SQM	LOSS %	MEETS CRITERIA	EX. ANNUAL	EX. WINTER	PR. ANNUAL	PR. WINTER	LOSS % ANNUAL	LOSS % WINTER	MEETS CRITERIA
	R3	RESIDENTIAL	LKD	W3/F14	25.2	24.1	1.1	4.4%	YES	100	100	0.0	0.0%	YES	57	19	55	18	3.5%	5.3%	YES
			LKD	W4/F14	25.5	24.5	1	3.9%	YES												
			LKD	W5/F14	26	24.9	1.1	4.2%	YES												
ELIZABETH TOWER C1 (CONTINUED)																					
			LKD	W6/F14	33.3	32.1	1.2	3.6%	YES												
			LKD	W7/F14	33.3	32.2	1.1	3.3%	YES												
			LKD	W8/F14	33.4	32.3	1.1	3.3%	YES												
F15	R1	RESIDENTIAL	BEDROOM	W1/F15	24.5	23.5	1	4.1%	YES	99.3	99.3	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	BEDROOM	W2/F15	25.1	24.1	1	4.0%	YES	99.6	99.6	0.0	0.0%	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	RESIDENTIAL	LKD	W3/F15	25.3	24.3	1	4.0%	YES	100	100	0.0	0.0%	YES	57	19	55	18	3.5%	5.3%	YES
			LKD	W4/F15	25.7	24.6	1.1	4.3%	YES												
			LKD	W5/F15	26.1	25	1.1	4.2%	YES												
			LKD	W6/F15	33.5	32.4	1.1	3.3%	YES												
			LKD	W7/F15	33.5	32.5	1	3.0%	YES												
			LKD	W8/F15	33.6	32.5	1.1	3.3%	YES												
F16	R1	RESIDENTIAL	LKD	W1/F16	31.9	31	0.9	2.8%	YES	99.9	99.9	0.0	0.0%	YES	45	14	44	13	2.2%	7.1%	YES
			LKD	W2/F16	33.3	32.3	1	3.0%	YES												
			LKD	W3/F16	25	24	1	4.0%	YES												
F17	R1	RESIDENTIAL	LKD	W1/F17	32.7	31.8	0.9	2.8%	YES	100	100	0.0	0.0%	YES	46	14	45	13	2.2%	7.1%	YES
			LKD	W2/F17	33.8	32.8	1	3.0%	YES												
			LKD	W3/F17	25.3	24.4	0.9	3.6%	YES												

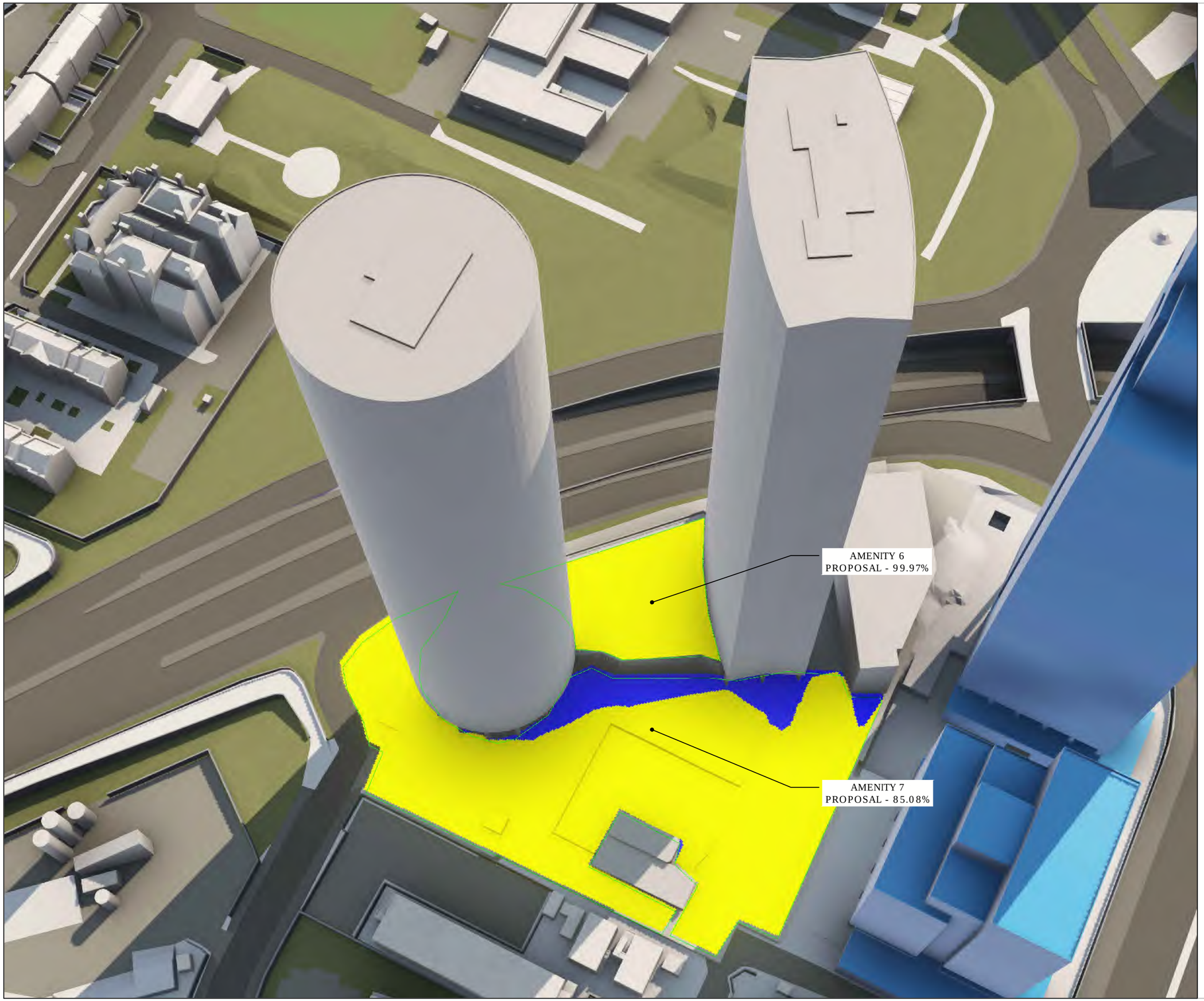
(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

(3) SINGLE ASPECT ROOM DEEPER THAN 5m

Appendix 8.3 – Overshadowing Results and Drawings

FLOOR	AMENITY	AMENITY AREA SQM	LIT AREA EXISTING SQM	LIT AREA EXISTING %	LIT AREA PROPOSED SQM	LIT AREA PROPOSED %	LOSS %
Amenity 6							
F00	A1	1017.77	1017.42	99.97%	1017.42	99.97%	0.00%
TOTAL		1017.77	1017.42	99.97%	1017.42	99.97%	0.00%
Amenity 7							
F00	A1	3872.92	3295.04	85.08%	3295.04	85.08%	0.00%
TOTAL		3872.92	3295.04	85.08%	3295.04	85.08%	0.00%



SOURCES OF INFORMATION

IR18-20210611-SimpsonHaugh
IR20-Vertex

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ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

.

+2 HR AREA LIT

-2 HR AREA LIT

NOTES:
PROPOSED SCHEME SHOWN IN TEAL

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:

PLOT F, GREAT JACKSON ST, MANCHESTER

DRAWING NAME:

PLAN VIEW PROPOSED
SUN ON GROUND ASSESSMENT
MARCH 21

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS	MB	4	JULY21
PROJ No.	REL No.	IS No.	DWG No.	REV No.
1366	02	03	01	-

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FLOOR	AMENITY	AMENITY AREA SQM	LIT AREA EXISTING SQM	LIT AREA EXISTING %	LIT AREA PROPOSED SQM	LIT AREA PROPOSED %	LOSS %
Amenity 1							
F00	A1	1653.58	281.49	17.02%	165.94	10.04%	41.05%
F00	A2	2526.83	90.86	3.60%	44.77	1.77%	50.73%
TOTAL		4180.41	372.35	8.91%	210.71	5.04%	43.41%
Amenity 2							
F03	A1	1663.71	412.52	24.80%	32.64	1.96%	92.09%
TOTAL		1663.71	412.52	24.80%	32.64	1.96%	92.09%



SOURCES OF INFORMATION

IR18-20210611-SimpsonHaugh
IR20-Vertex

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

+2 HR AREA LIT

-2 HR AREA LIT

LOSS

NOTES:
PROPOSED SCHEME SHOWN IN TEAL
CONSENTED SCHEME SHOWN IN ORANGE

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:

PLOT F, GREAT JACKSON ST, MANCHESTER

DRAWING NAME:

PLAN VIEW PROPOSED

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS	MB	4	JULY21
PROJ No.	REL No.	IS No.	DWG No.	REV No.
1366	02	03	02	-

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9. Noise and Vibration

Appendix 9.1 – Figures 9.1 – 9.4, Daytime Internal Noise Assessment (Table A1) and Night-Time Internal Noise Assessment (Table A2)

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Plot F Great Jackson Street, Manchester

Environmental Noise Study

November 2021

Report Reference: PR0660-REP01-MPF

Flint Glass Works, 64 Jersey Street, Manchester, M4 6JW

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fisher acoustics

PROJECT TITLE	PLOT F, GREAT JACKSON STREET, MANCHESTER
REPORT TITLE	ENVIRONMENTAL NOISE STUDY
CLIENT	RENAKER BUILD LIMITED NQ BUILDING 47 BENGAL STREET ANCOATS MANCHESTER M4 6BB
REPORT REFERENCE	PR0660-REP01-MPF
DATE	4 NOVEMBER 2021
AUTHOR	MATT FISHER, BENG (HONS) CENG MIOA
DOCUMENT HISTORY	
FIRST ISSUE	4 NOVEMBER 2021

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1.0 SUMMARY

Fisher Acoustics Ltd has been commissioned by Renaker Build Limited to conduct an environmental noise study relating to a proposed residential development at Plot F, Great Jackson Street, Manchester.

An assessment of environmental noise around the proposed site has determined the pre-existing environmental noise levels during the day and night at and around the site.

The recommended acoustic performance of the curtain wall to achieve the recommended internal noise levels within apartments has been determined.

The expected acoustic sound insulation performance of the solid elements of the façade are also identified.

Overall environmental noise limits have also been recommended for building services plant serving the development and in relation to potential noise egress from the proposed residential amenity areas within the Development.

2.0 INTRODUCTION

Fisher Acoustics Ltd has been commissioned by Renaker Build to conduct an environmental noise assessment relating to a full planning application for the proposed residential development at Plot F Great Jackson Street, Manchester. The proposals provide for a new residential development of two 51 storey residential towers comprising a total of 988 residential units and internal residential amenity uses, private car parking within a multi-storey basement and cycle parking facilities.

This report examines the pre-existing environmental noise conditions at the site and advises on the required sound insulation performance of façade elements to habitable rooms to achieve recommended internal noise criteria.

The steps undertaken in compiling this study are as follows:

- Assessment of daytime and night time external noise survey data to determine the typical levels of noise at the site during daytime and night time periods
- Calculation of the required weighted sound reduction index of the curtain wall to habitable rooms to allow the achievement of appropriate internal noise levels due to external noise sources.
- Determination of suitable overall noise limits for building services plant to safeguard residential amenity
- Determination of suitable overall noise limits relating to potential noise egress from the residential amenity spaces

Ordinarily an environmental noise assessment relating to a proposed residential development would involve the carrying out of an external noise survey to determine the pre-existing noise levels at and surrounding the development site due to typical external noise sources. However, due to reduced road traffic volumes and general activity in line with government guidelines relating to the ongoing Coronavirus pandemic at the time of the technical assessments discussed herein, it was not considered possible to obtain representative noise levels at noise sensitive receptors around the proposed development site. In addition, noise surveys at and around the site would have been compromised by noise from ongoing construction activities in the area, including the operation of the temporary concrete batching plant on Great Jackson Street close to the site.

Therefore, and in line with guidance published by the Association of Noise Consultants [ANC] and the Institute of Acoustics [IOA] 'Joint Guidance on the Impact of COVID-19 on the Practicality and Reliability of Baseline Sound Level Surveying and the Provision of Sound & Noise Impact Assessments', in order to establish the typical noise levels at and around the site, this report references the results of previous environmental noise surveys undertaken by Fisher Acoustics around the development site.

The above approach has been discussed and agreed with Laura Miller, Environmental Protection Officer at Manchester City Council.

3.0 DESCRIPTION OF SITE

General Site Description

The overall site area is 0.88 hectares and is located to the south of Manchester City Centre within the inner ring road. The site is bordered by Great Jackson Street to the west and south. The site has eastern boundaries with Owen Street and residential properties on River Place ('The Boatmans'). The site has northern boundaries with warehouse space (Plot E, Great Jackson Street) and by Deansgate Square.

Further to the south of the site are warehouse units that border the Mancunian Way (A57(M)). Further to the west are additional development plots within the Great Jackson Street Strategic Development Framework area including Plot C, currently under construction.

The overall site is currently occupied by a low-rise industrial unit and a construction compound with associated car parking (supporting the construction of Deansgate Square)

The Mancunian Way (A57(M)) is a major road that is heavily trafficked. Great Jackson Street is relatively lightly trafficked.

Figure 1 shows the overall Plot F Development site in the context of the surrounding roads and buildings.

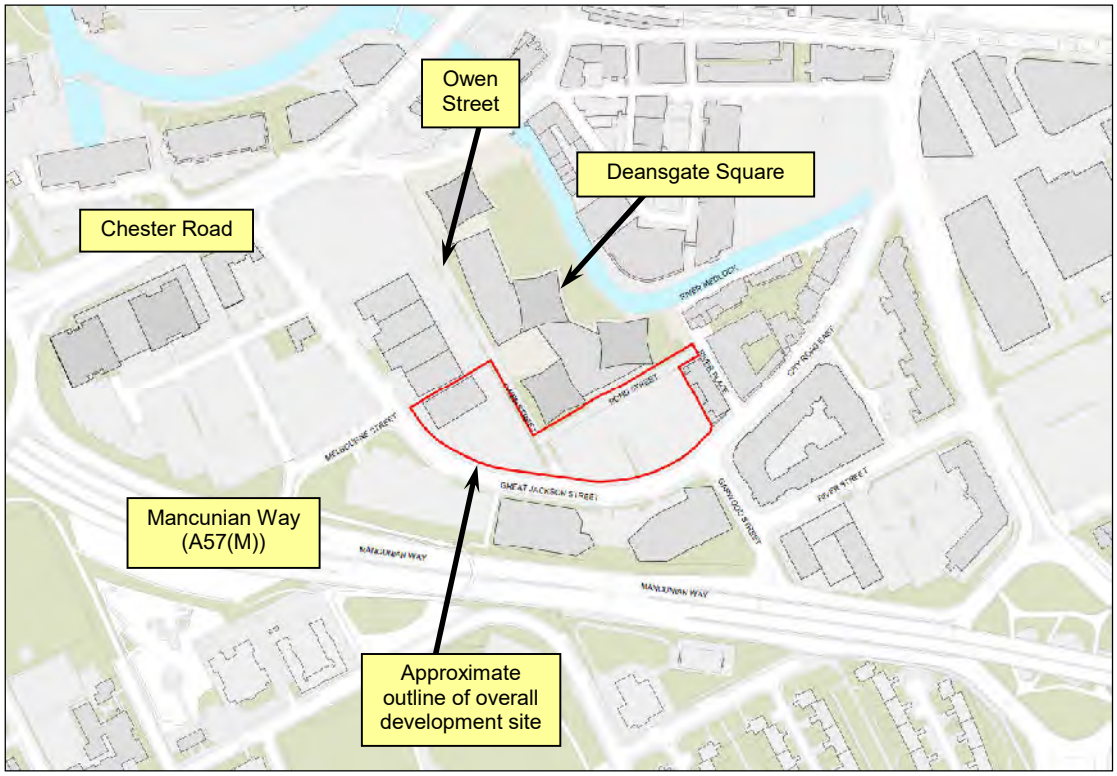


Figure 1: Site location plan – Plot F, Great Jackson Street

4.0 DESCRIPTION OF PROPOSED DEVELOPMENT

The development proposals are for the erection of two 51 storey residential towers comprising a total of 988 apartments (Use Class C3) and internal residential amenity uses, private car parking within a multi-storey basement and cycle parking facilities, together with public realm, highway and associated works.

The residential amenity spaces are to be located on the ground floor and first floor of each tower and are proposed to include lounges, shared workspaces and a gym.

The two towers are named Plot F1 and Plot F2.

Figure 2 shows the proposed location of each building on the Site.



Figure 2: Plot F, Second Floor Plans

5.0 RELEVANT GUIDANCE DOCUMENTS

NATIONAL PLANNING POLICY

The National Planning Policy Framework (NPPF), published in July 2021 by the Ministry of Housing, Communities and Local Government 'sets out the Government's planning policies for England and how these should be applied'.

Clause 174 of the National Planning Policy Framework states that 'Planning policies and decisions should contribute to enhance the natural and local environment by:

> 'preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability'.

Clause 185 of the National Planning Policy Framework states:

> "Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. In doing so they should:
>
> a) mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life;
>
> b) identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason; and
>
> c) limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation."

The National Planning Policy Framework document cross references the 'Explanatory Note to the Noise Policy Statement for England'. The 'Noise Policy Statement for England' (NPSE) was published by the Department for Environment Roof and Rural Affairs in March 2010.

The NPSE does not give suggested external noise criteria for commercial Developments. In the absence of specific criteria, reference shall be made in this document to established guidance and principles, as established in British Standards and the local Planning policy.

National Planning Practice Guidance – Noise

'Planning Practice Guidance – Noise' is a web-based resource provided by the Ministry of Housing, Communities and Local Government (last revision date 22 July 2019) which gives guidance on Planning considerations in relation to noise.

The document identifies the subjective grading of noise and the recommended actions and different effect levels. Again, as Planning Practice Guidance – Noise' does not refer to objective criteria, reference shall be made in this document to established guidance and principles, as established in British Standards and the local Planning policy

LOCAL PLANNING POLICY

Manchester City Council's Core Strategy was adopted on 11th July 2012 and is the key Development Plan Document in the Local Development Framework (LDF).

Section 13.6 'Development Management' of the Core Strategy states that 'all new developments should follow the 'Development Principles' and accord with the design guidance set out in the Supplementary Planning Documents.

Policy DM 1, 'Development Management' of the Core Strategy states that:

- All development should have regard to the following specific issues for which more detailed guidance may be given within a supplementary planning document:-Effects on amenity, including …..noise, vibration…. This could also include proposals which would be sensitive to existing environmental conditions, such as noise.

'Planning & Noise, Technical Guidance', dated December 2015 has been issued by the Environmental Protection, Environmental Health and The Neighbourhoods Service sections of Manchester City Council. The document provides guidance to applicants and consultants concerning the assessment and prediction of environmental noise associated with a particular development. Reference is also made in the document to the relevant supporting information and guidance documents that Developers are expected to refer to when submitting a planning application.

Internal noise criteria

Internal noise levels within the proposed living accommodation must be appropriate for the intended use.

With regard to noise ingress to residential dwellings, section 3.5 'National & International Standards' of the 'Planning & Noise, Technical Guidance' advises that Manchester City Council has adopted the internal noise limits for residential properties identified in Table 1.

Activity	Location	07:00 to 23:00	23:00 to 07:00
Resting	Living room	35 dB $L_{Aeq, 16\ hours}$	-
Dining	Dining room / area	40 dB $L_{Aeq, 16\ hours}$	-
Sleeping (daytime resting)	Bedroom	35 dB $L_{Aeq, 16\ hours}$	30 dB $L_{Aeq, 8\ hours}$ 45dB LAmax (fifteen excesses over 45dB LAmax allowed per night)

Table 1: Intrusive noise criteria

Manchester City Council has also advised that planning applications for residential applications must include an assessment in line with 'Acoustics, Ventilation and Overheating, Residential Design Guide', (AVO) published by the Association of Noise Consultants and the Institute of Acoustics in January 2020. The requested assessment is provided under separate cover.

Building Services Noise

With regard to external noise due to building services plant, Section 3.6.1.5.1 of 'Planning & Noise, Technical Guidance' states:

- 'Externally mounted ancillary plant, equipment and servicing shall be selected and/or acoustically treated in accordance with a scheme designed so as to achieve a rating level of 5dB (LAeq) below the typical background (LA90) level at the nearest noise sensitive location'

Figure 3 identifies the nearest noise sensitive premises to the proposed development site.

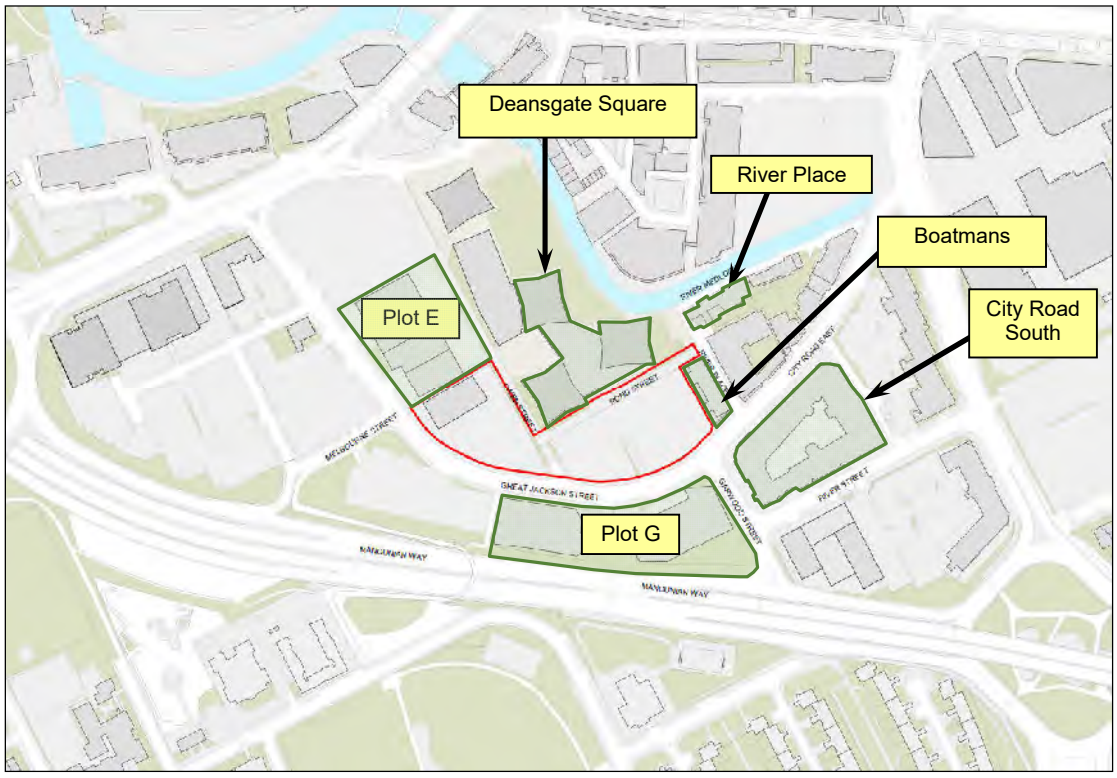


Figure 3: Nearest noise sensitive premises to Plot F

Noise from Amenity Spaces

Noise egress from the proposed amenity areas within the proposed development must be controlled to appropriate levels so as to avoid noise nuisance to existing sensitive receptors.

With regard to 'entertainment venues', 'Planning & Noise, Technical Guidance' states:

- 'When considering the potential impact of a proposal for an entertainment venue, consultants should consider the overall noise level (LAeq) and the 63 Hz and 125 Hz octave band noise levels (Leq). Music noise in the 63 Hz and 125 Hz octave bands, which is often described as "bass noise", is particularly difficult to contain and the impulsive character of this low frequency music noise is particularly disturbing for local residents exposed to it'.

- 'A planning application for a new entertainment venue that is structurally detached from other building uses should demonstrate that music noise from the proposal will not be 'audible' in nearby residential properties, assuming that the residential properties in question have their windows open. The criterion here is:

  Entertainment noise (LAeq) should be controlled to 10dB below the background noise level (LA90) without the entertainment noise present, in each octave band at the nearest noise sensitive location'.

Although the amenity spaces are not 'entertainment venues', the spaces may employ music replay and thus it would be appropriate to establish external environmental noise limits for music noise to ensure that during design development, the building incorporates any required mitigation measures to maintain residential amenity at and around the site.

6.0 ENVIRONMENTAL NOISE SURVEY

In order to determine the prevailing ambient noise levels at and around the site, reference has made to previous surveys conducted by Fisher Acoustics. Surveys of the existing noise environment at and around the Site were carried out by Fisher Acoustics Ltd over daytime periods on Tuesday 3 November 2015, Thursday 5 November 2015 and Wednesday 23 November 2015 and overnight time periods on Saturday 19 September 2015 and Thursday 19 November 2015.

The measurement locations used for the surveys are identified on Figure 4 and are representative of the positions of the façades of the proposed Development and of the nearest existing residential properties. The measured noise levels can therefore be used to assess the expected internal noise levels within the proposed buildings and also to determine acceptable levels of noise at the existing sensitive properties around the site due to noise from the Development.

The measurement locations from the Owen Street Survey were as follows:

- Location 1: 20 metres from Mancunian Way (A57(M)) at a microphone height of 15.0 metres above street level
- Location 4: At SE corner of Tower 2 at a microphone height of 1.5 metres above street level
- Location 5: At SW corner of Tower 1, at position of closest residential façade to Great Jackson Street, at a microphone height of 1.5 metres above street level
- Location 8: At SE edge of site, adjacent to River City residential building, at a microphone height of 1.5 metres above street level
- Location 9: At SE corner of site, adjacent to The Boatmans residential building, at a microphone height of 1.5 metres above street level

As street-level locations on the proposed site are physically screened from the Mancunian Way by intervening buildings, the typical daytime and night time noise level at location 1 was measured in order to allow the determination of the expected noise level at the proposed development due to road traffic on the Mancunian Way.

Full survey details are given in Appendix A. Appendix A also contains a summary of the results obtained from the surveys.

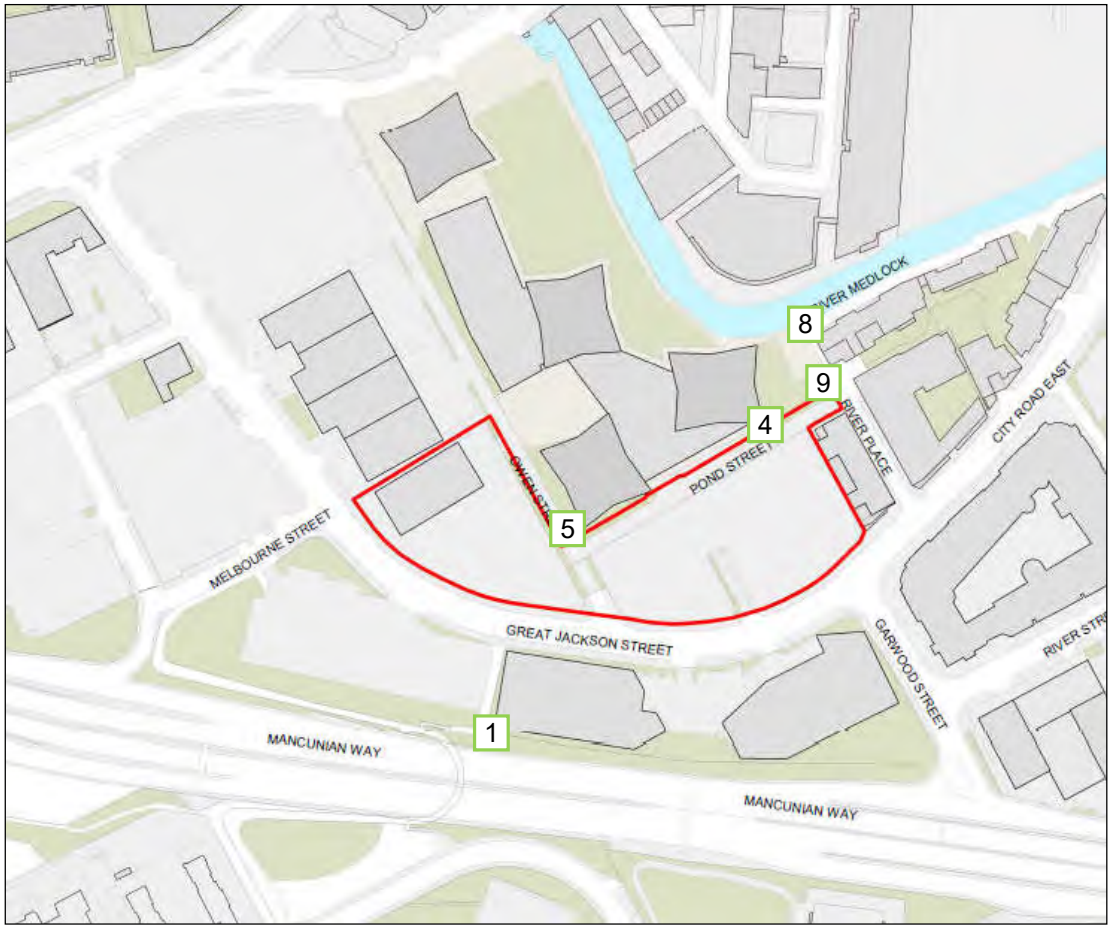


Figure 4: Noise survey measurement locations

The long-term noise environment around the Application Site is currently determined by the following principal external noise sources:

- Road traffic on Mancunian Way (A57 (M)), Great Jackson Street

The noise levels measured during the noise surveys are summarised in Table 2.

Measurement Location	Measured Noise Level					
	Daytime (defined as 7 am to 11 pm)			Night time (defined as 11 pm to 7 am)		
	L_{Aeq} dB	L_{Amax} dB	L_{A90} dB	L_{Aeq} dB	L_{Amax} dB	L_{A90} dB
1 (15m height)	68 (slow moving traffic) 75 (free flowing traffic)	70 to 92	62 to 64	74	75 to 91	57 to 74
4	-	-	-	54	56 to 64	51 to 43
5	61	70 to 80	47 to 49	55	56 to 73	48 to 56
8	56	61 to 65	54 to 55	57	60 to 63	55 to 56
9	56	61 to 67	53 to 54	56	59 to 65	52 to 54

Table 2: Summary of measured environmental noise levels

The statistical noise levels ('LAmax' and 'LA90') given in Table 2 show the range of noise levels measured over the sample periods. The quoted average (LAeq) noise levels are the average noise levels measured over the full measurement periods in question at each measurement position.

Figure 5 shows the calculated external daytime average (LAeq) noise levels incident upon the various façades of the proposed buildings. The identified noise levels assume that the development sites to the south of Plot F have not been built out. The noise levels presented are therefore a worst case, as these proposed large-scale buildings, including the planning-approved development at Plot G Great Jackson Street, will provide a degree of acoustic screening from noise due to road traffic on Mancunian Way.



Figure 5: Summary external daytime noise levels incident on each façade (dB LAeq)

7.0 NOISE INGRESS

By taking into account the measured levels of noise at the site, the areas of the façade to each room and the likely reverberation time of the apartment rooms, the required sound insulation performance of the curtain wall to achieve the target internal noise criteria can be determined.

The apartments of the proposed development are to be provided with continuously running supply and extract ventilation in order to achieve the background ventilation requirements of Approved Document F of the Building Regulations. Therefore, no passive trickle ventilators are required within the façade of the proposed habitable rooms. Purge ventilation is to be achieved through via opening purge vents. The calculations assume that the purge vents are closed. As identified above, an assessment of the noise impact of opening purge vents has been carried out in response to the guidance given in the 'Acoustics, Ventilation and Overheating, Residential Design Guide', (AVO). The assessment is provided under separate cover.

Design recommendations

Calculations of noise ingress have been carried out to determine the minimum required weighted sound reduction index of the curtain wall to achieve the internal noise criteria detailed in Section 5 of this report. The calculations are based upon the room sizes and layouts identified on the drawings submitted for Planning purposes.

It has been determined that a range of acoustic specifications for the curtain wall will be required to achieve the recommended internal noise levels. Figures 6 to 15 identify the locations of the various recommended specifications. The curtain wall a performance requirements are detailed below.

Table 3 identifies the minimum recommended weighted sound reduction index of the curtain wall specifications referred to below and in Figures 6 to 15. The recommended performance values in Table 3 relate to the composite performance of the full curtain wall assembly including glazing, drylined non-vision panels, the curtain wall frame and purge vents.

During the detailed design phase, the acoustic performance requirements of the individual elements of the curtain will be determined and advised.

Specification	Rw
TYPE A	45 dB
TYPE B	42 dB
TYPE C	40 dB
TYPE D	37 dB

Table 3: Minimum Recommended Sound Reduction Index of facade



Figure 6: Acoustic specification location Level 02 to Level 03, Living rooms & Bedrooms

KEY

- Acoustic Spec A
- Acoustic Spec B
- Acoustic Spec C
- Acoustic Spec D



Figure 7: Acoustic specification location Level 04 to Level 10, Living rooms & Bedrooms

KEY

- Acoustic Spec A
- Acoustic Spec B
- Acoustic Spec C
- Acoustic Spec D



Figure 8: Acoustic specification location Level 11, Living rooms & Bedrooms

KEY

- Acoustic Spec A
- Acoustic Spec B
- Acoustic Spec C
- Acoustic Spec D



Figure 9: Acoustic specification location Level 12 to Level 13, Living rooms & Bedrooms

KEY

- Acoustic Spec A
- Acoustic Spec B
- Acoustic Spec C
- Acoustic Spec D



Figure 10: Acoustic specification location Level 14 to Level 20, Living rooms & Bedrooms

KEY

- Acoustic Spec A
- Acoustic Spec B
- Acoustic Spec C
- Acoustic Spec D



Figure 11: Acoustic specification location Level 21 to Level 35, Living rooms & Bedrooms

KEY

- Acoustic Spec A
- Acoustic Spec B
- Acoustic Spec C
- Acoustic Spec D



Figure 12: Acoustic specification location Level 36 to Level 48, Living rooms & Bedrooms

KEY

- Acoustic Spec A
- Acoustic Spec B
- Acoustic Spec C
- Acoustic Spec D



Figure 13: Acoustic specification location Level 49, Living rooms

KEY

- Acoustic Spec A
- Acoustic Spec B
- Acoustic Spec C
- Acoustic Spec D



Figure 14: Acoustic specification location Level 50, Bedrooms

KEY

- Acoustic Spec A
- Acoustic Spec B
- Acoustic Spec C
- Acoustic Spec D

Roof

The principle acoustic elements of the proposed roof of the development are a concrete slab and a ceiling that comprises a single layer of 12.5 mm wallboard fixed to a suspended metal frame. The expected minimum weighted sound reduction index of the roof construction is 60 dB Rw. This performance is fully commensurate with the achievement of the target internal noise levels within the proposed apartments.

External noise ingress via MVHR ductwork

It is possible that in-line ductwork silencers would need to be introduced to some of the proposed apartment MVHR systems to reduce external noise ingress via the atmosphere terminations of the MVHR systems (i.e. the intake and exhaust of the MVHR fans) and to achieve the recommended internal noise.

As the detailed design progresses, the acoustic requirements of any in-line ductwork silencers will be assessed.

Conclusion

Compliance with the recommended sound insulation performances of the façade and roof elements is expected to allow full compliance with the daytime and night time 'average' noise level criteria identified in Section 5 above.

Given the recommended sound insulation performances given above for the façade and roof, compliance with the recommendations of the World Health Organisation in relation to maximum (LAmax) internal noise events is expected.

8.0 EXTERNAL NOISE LEVELS DUE TO BUILDING SERVICES

The measured background noise levels around the site can be used to establish the acceptable level of noise from plant serving the development. Final plant selections have not been made at this early design stage. In the absence of specific selection of plant items, overall plant noise limits can be provided.

With reference to the discussion in Section 5, the cumulative rating level due to all simultaneously operating non-emergency plant must be at least 5 dB lower than the typical pre-existing background noise level at the nearest residential receptors to the site.

Table 4 identifies the allowable combined noise level at the nearest residential receptors to the development, due to all simultaneously-operating non-emergency building services plant and equipment.

Location	Rating noise level (dB L_{Aeq})	
	Daytime (07:00 hrs to 23:00 hrs)	Night time (23:00 hrs to 07:00 hrs)
Residences, 'River City'	47	41
Residences, 'The Boatmans'	48	47
Residences, Hill Quays	49	49
Plot G, Great Jackson Street	47	41
Plot E, Great Jackson Street	43	45
Deansgate Square, South Tower	43	45
Deansgate Square, East Tower	43	42
Proposed Residences, Plot F1	49	49
Proposed Residences, Plot F2	49	49

Table 4: Environmental noise limits for non-emergency building services plant

Emergency plant

If any emergency plant is required at the Development, it is expected that such plant would only operate during emergencies and during periodical test runs (perhaps test runs of thirty minutes every two weeks).

On this basis, it is not considered appropriate to require emergency plant to comply with the noise limits for continuously operating non-emergency plant. It is therefore suggested that the noise level from any emergency plant is no more than 10dB(A) greater than the ambient noise level (measured as an L_{Aeq}) at any residential receptor.

It is therefore recommended that the noise level at any residential façade during operation of any emergency plant does not exceed the daytime noise levels given in Table 5.

Location	Daytime noise level (dB L_{Aeq})
Residences, 'River City'	66
Residences, 'The Boatmans'	66
Residences, Hill Quays	66
Plot G, Great Jackson Street	67
Plot E, Great Jackson Street	71
Deansgate Square, South Tower	71
Deansgate Square, East Tower	71
Proposed Residences, Plot F1 (northwest elevation)	71
Proposed Residences, Plot F2 (northwest elevation)	71

Table 5: Environmental noise limits for emergency building services plant

The above noise limits for non-emergency and emergency plant must be forwarded to the project's Mechanical Engineer to allow the selection of appropriate equipment and any associated noise control hardware. Building services equipment must also be provided with appropriate vibration isolation to minimise the risk of disturbance to the building occupants by structureborne noise.

9.0 NOISE EGRESS FROM GYM AND AMENITY SPACES

In order to avoid potential noise nuisance to the existing and proposed noise-sensitive buildings around the site, activity noise egress from the proposed amenity spaces, including gyms, on the ground and first floor of each building must be controlled.

As detailed in Section 5 above, Manchester City Council suggests that external music noise levels (measured as an L_{eq} noise level) external to a residential property due to an entertainment venue should be 10 dB lower than the prevailing background noise level in each octave band.

Octave band noise limits at the nearest noise sensitive receptors have been determined by reference to noise survey data at the nearby noise sensitive premises

Table 6 identifies the recommended maximum allowable cumulative daytime and night time free-field noise levels at the closest residential façades due to music noise from the gym and Amenity spaces within the proposed development to comply with the guidance of Manchester City Council.

Location/period	Sound Pressure Level (dB Leq) @ Octave Band Centre Frequency (Hz)						
	63	125	250	500	1k	2k	4k
Residences, Deansgate Quay (0700 to 2300)	51	43	38	36	38	32	25
Residences, Deansgate Quay (2300 to 0700)	49	40	37	38	39	33	25
Residences, River City (0700 to 2300)	51	42	41	39	40	33	21
Residences, River City (2300 to 0700)	49	40	37	37	40	34	21
Residences, The Boatmans (0700 to 2300)	51	42	41	39	40	33	21
Residences, The Boatmans (2300 to 0700)	49	38	37	37	40	34	21
Residences, Hill Quays (0700 to 2300)	50	41	41	40	42	35	26
Residences, Hill Quays (2300 to 0700)	49	40	38	39	41	35	26
Proposed Residential Towers (0700 to 2300)	50	41	41	40	42	35	26
Proposed Residential Towers (2300 to 0700)	49	40	38	39	41	35	26

Table 6: Maximum allowable external music noise levels due to proposed commercial units

INTERNAL NOISE TRANSFER- AMENITY AREAS TO APARTMENTS

There are residential apartments directly above the proposed amenity areas. There is therefore the possibility of internal noise transfer between the amenity areas and the apartments above via the party floor structures. In order to avoid potential noise nuisance, it is recommended that the internal noise levels within an apartment due solely to music replay in the amenity areas do not exceed the values given in Table 7.

Room	**Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)**						
	63	**125**	**250**	**500**	**1k**	**2k**	**4k**
Apartment Unit 3B	40	30	23	20	17	15	12

Table 7: Maximum recommended noise levels in apartments due to music replay in amenity areas

During the detailed design stages, the sound insulation requirements of the party floor to comply with the above noise limits will be determined given the potential noise levels generated within the amenity spaces.

APPENDIX 8.1

NOISE SURVEY DETAILS AND SUMMARY RESULTS

LOCATION

Owen Street, Manchester

DATES AND TIMES

Saturday 19 September 2015	22:45 to 02:00
Tuesday 3 November 2015	15:45 to 19:15
Thursday 5 November 2015	12:45 to 13:45
Friday 20 November 2015	01:20 to 02:00
Monday 23 November 2015	14:55 to 17:20

Weather during surveys

Saturday 19 September 2015	4/8 cloud cover, 1 m/s very light breeze, no rain, 14 ^{o}C
Tuesday 3 November 2015	7/8 cloud cover, 2 m/s very light breeze, no rain, 10 ^{o}C
Thursday 5 November 2015	8/8 cloud cover, 2 m/s very light breeze, no rain, 15 ^{o}C
Friday 20 November 2015	2/8 cloud cover, 4 m/s light breeze, no rain, 5 ^{o}C
Monday 23 November 2015	8/8 cloud cover, 4 m/s light breeze, no rain, 5 ^{o}C

Personnel present during survey

Matt Fisher – Fisher Acoustics

Instrumentation

Norsonic Type 118 IEC 60651 Type 1 Integrating-Averaging Sound Level Meter (serial no. 31498)
Norsonic Type 140 IEC 60651 Type 1 Integrating-Averaging Sound Level Meters (serial no. 1403193)
Norsonic Type 1251 IEC 60942-1997 Class 1 Sound Calibrators (x2) (serial nos. 31971, 27878)

Measurement methodology

Before and after the noise survey the sound level meters were check calibrated to an accuracy of ±0.3dB using the Norsonic Type 1251 Calibrators - no drift in sensitivity was detected. The measurement microphones were installed at the locations identified in this report.

Table A1 to A16 and Figure A1 identify the free-field noise levels measured around the Site. Measurement locations are shown on Figure 4 and described below.

- Location 1: 20 metres from Mancunian Way (A57(M)) at a microphone height of 15.0 metres above street level
- Location 4: At SE corner of Tower 2 at a microphone height of 1.5 metres above street level
- Location 5: At SW corner of Tower 1, at position of closest residential façade to Great Jackson Street, at a microphone height of 1.5 metres above street level
- Location 8: At SE edge of site, adjacent to River City residential building, at a microphone height of 1.5 metres above street level
- Location 9: At SE corner of site, adjacent to The Boatmans residential building, at a microphone height of 1.5 metres above street level

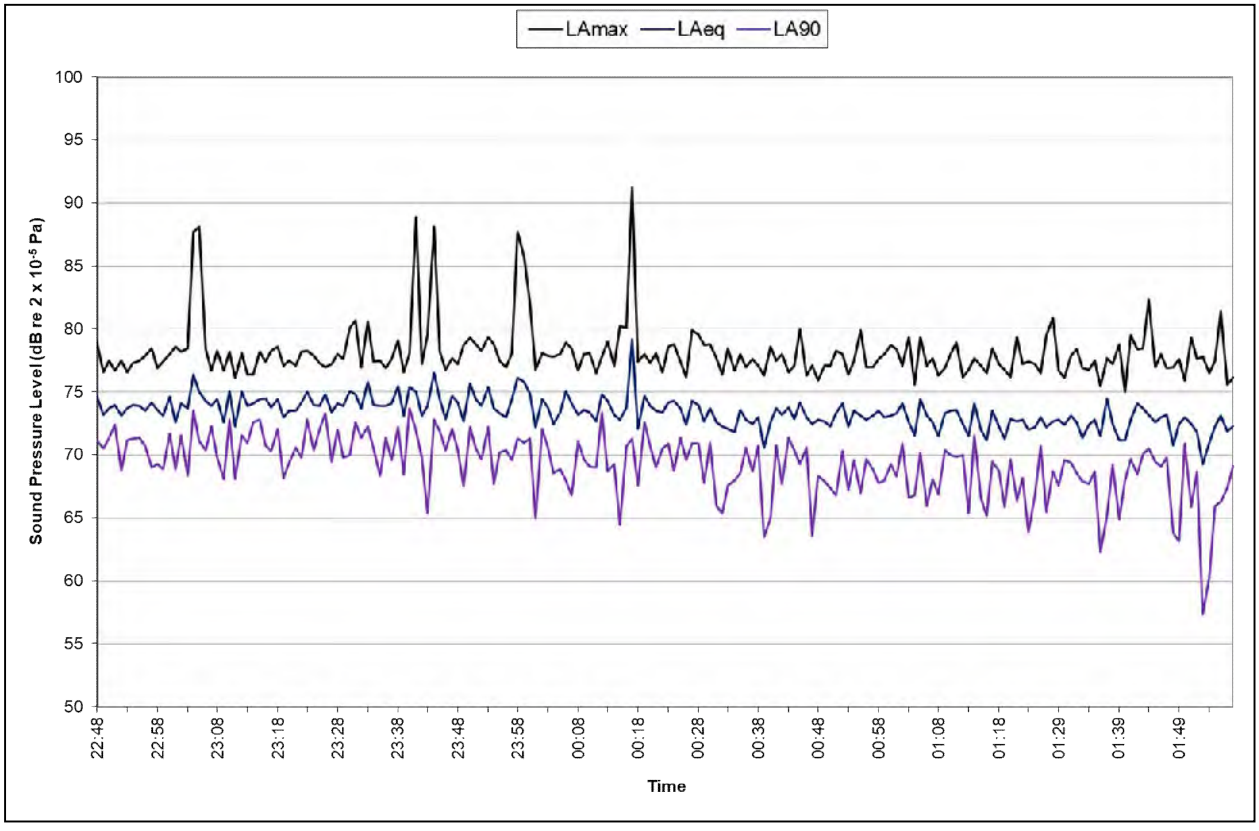


Figure A1: Noise survey measurement results, Position 1, night time, 19 Sep 2015

Measurement Position	Start Time	Measured Noise Levels, dB				Noise sources
		L_{Aeq}	L_{Amax}	L_{A10}	L_{A90}	
4	23:46	54.8	60.4	56.2	53.2	Road traffic
4	23:47	54.9	57.9	56.0	53.4	"
4	23:49	54.1	56.5	55.1	52.6	"
4	23:50	53.6	56.9	54.9	52.1	"
4	23:51	55.3	64.2	56.4	53.7	"
4	23:52	53.7	56.4	55.3	51.7	"
4	23:53	54.4	57.7	55.6	52.8	"
4	23:54	54.5	58.8	56.2	51.5	"
4	23:55	54.7	60.0	56.8	51.9	"
4	23:56	53.5	59.8	55.0	51.8	"
4	01:06	54.6	59.8	56.3	52.4	"
4	01:07	53.6	57.9	55.3	51.2	"
4	01:08	53.7	58.2	55.4	51.0	"
4	01:09	53.8	60.2	55.5	51.2	"
4	01:10	55.2	60.4	56.9	52.7	"
4	01:11	54.6	57.4	56.0	52.8	"
4	01:12	54.2	60.4	55.9	52.6	"
4	01:13	53.6	59.3	55.1	51.9	"
4	01:14	54.0	57.9	55.8	52.0	"

Table A1: Summary Statistical Noise Levels – Night time, 19 September 2015, Position 4

Measurement Position	Start Time	Noise Level, dB LAeq	Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)						
			63	125	250	500	1k	2k	4k
4	23:46	54.8	57.6	50.1	48.8	49.5	52.9	45.5	34.8
4	23:47	54.9	58.0	50.5	49.1	48.7	53.1	45.7	33.4
4	23:49	54.1	58.0	50.6	48.5	47.7	52.4	44.8	31.3
4	23:50	53.6	61.1	53.3	48.8	47.6	51.6	44.7	33.4
4	23:51	55.3	57.5	49.7	48.2	49.5	53.4	46.2	34.9
4	23:52	53.7	57.7	49.4	48.0	48.0	51.9	44.6	32.5
4	23:53	54.4	60.5	53.3	50.6	49.6	52.1	45.0	33.9
4	23:54	54.5	60.5	50.9	49	49.4	52.4	45.6	34.9
4	23:55	54.7	59.4	50.9	48.3	49.6	52.5	46.1	35.9
4	23:56	53.5	59.4	52.1	48.3	48.3	51.2	45.1	35.7
4	01:06	54.6	58.4	51.0	48.6	49.0	52.7	45.2	33.2
4	01:07	53.6	61.4	51.6	48.9	48.6	51.5	44.3	32.7
4	01:08	53.7	59.5	52.8	49.1	48.8	51.5	44.7	32.9
4	01:09	53.8	56.6	50.8	48.2	48.9	51.7	44.3	33.2
4	01:10	55.2	58.2	52.6	50.1	50.3	52.9	46.2	34.6
4	01:11	54.6	58.8	50.6	47.7	48.1	52.8	45.8	33.6
4	01:12	54.2	58.4	50.3	48.1	49.1	52.1	45.2	33.5
4	01:13	53.6	59.7	52.2	48.2	48.2	51.6	44.4	32.4
4	01:14	54.0	60.9	54.8	50.2	49.1	51.5	45.0	35.0

Table A2: Measured Octave Band L_{eq} Noise Levels – Night time, 19 September 2015, Position 4

Measurement Position	Start Time	Measured Noise Levels, dB				Noise sources
		L_{Aeq}	L_{Amax}	L_{A10}	L_{A90}	
5	23:58	55.1	60.8	56.6	52.7	Road traffic
5	23:59	63.2	73.1	67.7	55.6	"
5	00:00	55.2	59.8	56.8	53.4	"
5	00:01	54.4	60.4	56.2	51.4	"
5	00:02	54.8	60.0	56.0	52.8	"
5	00:03	54.0	56.3	55.3	52.5	"
5	00:04	53.1	56.7	54.9	50.4	"
5	00:05	53.6	56.2	55.0	51.9	"
5	00:06	53.6	61.2	56.1	49.2	"
5	00:07	54.3	57.8	56.4	50.7	"
5	00:08	54.8	60.4	56.4	52.8	"
5	01:17	51.6	57.3	53.3	48.8	"
5	01:18	53.3	57.8	55.0	50.3	"
5	01:19	53.1	59.5	55.2	50.1	"
5	01:20	51.6	55.6	53.8	48.5	"
5	01:21	53.0	60.1	54.5	50.0	"
5	01:22	52.4	58.6	54.4	49.9	"
5	01:23	52.8	60.3	54.5	50.3	"
5	01:24	51.7	56.8	54.3	48.0	"

Table A3: Summary Statistical Noise Levels – Night time, 19 September 2015, Position 5

Measurement Position	Start Time	Noise Level, dB LAeq	Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)						
			63	125	250	500	1k	2k	4k
5	23:58	55.1	61.0	53.0	48.1	49.8	53.2	45.7	33.9
5	23:59	63.2	59.4	54.1	47.9	51.1	61.0	57.1	47.9
5	00:00	55.2	60.7	52.2	47.7	49.0	53.3	46.7	34.6
5	00:01	54.4	62.6	52.8	49.3	49.2	52.3	45.0	32.6
5	00:02	54.8	59.4	51.2	48.1	48.8	53.0	45.5	32.4
5	00:03	54.0	59.7	51.2	47.1	48.0	52.3	44.4	30.8
5	00:04	53.1	59.8	51.3	47.5	48.0	51.1	43.8	31.2
5	00:05	53.6	58.4	49.5	45.7	47.4	51.9	44.3	30.9
5	00:06	53.6	59.8	49.7	46.9	48.2	51.7	44.5	32.8
5	00:07	54.3	58.1	49.0	45.9	47.8	52.7	45.2	30.8
5	00:08	54.8	59.3	50.3	47.6	49.3	52.9	45.5	33.1
5	01:17	51.6	58.3	50.9	45.1	45.6	49.8	42.2	30.6
5	01:18	53.3	59.3	50.2	46.7	47.4	51.6	44.1	30.7
5	01:19	53.1	61.2	51.6	48.5	47.2	51.2	44.2	32.1
5	01:20	51.6	58.4	49.2	44.9	46.3	49.7	42.3	29.2
5	01:21	53.0	59.8	49.9	46.7	47.5	51.1	43.6	31.3
5	01:22	52.4	57.4	48.8	45.1	47.2	50.7	42.7	29.2
5	01:23	52.8	57.8	48.9	46.5	47.1	50.9	43.9	29.8
5	01:24	51.7	57.7	48.9	44.9	46.2	49.7	42.7	31.4

Table A4: Measured Octave Band L_{eq} Noise Levels – Night time, 19 September 2015, Position 5

Measurement Position	Start Time	Measured Noise Levels, dB				Noise sources
		L_{Aeq}	L_{Amax}	L_{A10}	L_{A90}	
1	15:47	69.3	75.0	71.2	66.8	Road traffic
1	15:52	68.4	73.6	70.2	65.2	"
1	15:57	67.0	84.5	68.5	64.1	"
1	16:02	66.6	74.5	68.3	63.8	"
1	16:07	66.1	74.8	68.3	63.0	"
1	16:12	73.0	91.8	71.1	63.5	"
1	16:17	67.1	73.7	69.2	64.0	"
1	16:22	66.9	71.7	68.7	63.2	"
1	16:27	70.7	86.9	72.3	63.0	"
1	16:32	65.5	72.8	67.4	61.5	"
1	16:37	67.3	71.1	69.1	64.3	"
1	16:42	69.5	83.9	70.5	64.1	"
1	16:47	65.8	72.9	68.0	62.8	"
1	16:52	65.1	69.5	66.9	62.2	"
1	16:57	65.8	77.3	67.9	62.4	"
1	17:02	68.0	85.4	69.3	63.6	"
1	17:07	73.1	90.6	73.9	65.3	"
1	17:12	67.9	73.8	69.9	64.7	"
1	17:17	66.2	74.2	68.2	62.9	"
1	17:22	66.9	74.5	69.0	64.0	"
1	17:27	66.3	72.5	68.2	63.7	"
1	17:32	66.8	71.7	68.7	64.1	"

Table A5: Summary Statistical Noise Levels – Daytime, 3 November 2015, Position 1

Measurement Position	Start Time	Noise Level, dB LAeq	Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)						
			63	125	250	500	1k	2k	4k
1	15:47	69.3	70.5	64.8	65.0	64.0	67.2	60.3	50.5
1	15:52	68.4	72.8	66.3	64.2	62.9	66.0	60.0	50.8
1	15:57	67.0	72.5	65.8	62.7	61.7	64.2	59.1	51.9
1	16:02	66.6	71.6	65.1	62.9	61.6	64.0	58.3	50.3
1	16:07	66.1	71.3	65.4	62.9	61.2	63.3	57.9	50.2
1	16:12	73.0	71.0	64.8	62.2	61.6	70.5	66.8	59.9
1	16:17	67.1	70.6	64.3	61.8	61.7	64.7	58.8	50.1
1	16:22	66.9	70.8	64.3	62.3	61.4	64.5	58.7	49.9
1	16:27	70.7	71.0	66.0	63.6	62.5	68.1	64.2	55.2
1	16:32	65.5	70.0	63.8	61.0	60.1	63.0	57.4	48.2
1	16:37	67.3	71.6	65.7	62.7	62.0	64.8	59.0	50.0
1	16:42	69.5	71.0	67.7	62.8	62.6	65.6	63.6	58.4
1	16:47	65.8	70.9	64.5	61.5	60.5	63.2	57.6	50.2
1	16:52	65.1	70.4	63.4	61.7	59.8	62.6	56.7	48.1
1	16:57	65.8	70.3	63.8	61.1	60.2	63.3	57.7	48.8
1	17:02	68.0	71.5	66.4	63.9	62.4	64.9	60.1	56.2
1	17:07	73.1	70.2	66.4	63.1	62.0	70.2	67.4	59.4
1	17:12	67.9	71.5	66.3	64.3	62.6	65.4	59.3	50.6
1	17:17	66.2	70.2	65.5	61.6	60.6	64.0	57.9	48.2
1	17:22	66.9	69.9	63.3	61.6	61.3	64.6	58.4	50.6
1	17:27	66.3	70.2	65.3	61.7	60.9	64.1	57.6	47.9
1	17:32	66.8	69.7	63.6	63.1	60.9	64.6	58.5	49.7

Table A6: Measured Octave Band L_{eq} Noise Levels – Daytime, 3 November 2015, Position 1

Measurement Position	Start Time	Measured Noise Levels, dB				Noise sources
		L_{Aeq}	L_{Amax}	L_{A10}	L_{A90}	
5	16:30	60.3	78.2	62.0	47.4	Road traffic
5	16:40	62.5	79.5	64.1	47.3	“
5	16:50	54.2	69.5	55.4	47.1	“
5	16:58	62.3	76.2	66.7	48.1	“
5	17:04	61.4	79.7	62.9	48.9	“
5	17:09	62.6	79.7	65.7	48.2	“
6	17:50	56.0	66.1	58.1	53.1	“
6	17:55	57.0	66.3	59.5	54.1	“
6	18:00	55.8	67.6	57.8	53.0	“
6	18:40	59.9	68.4	61.9	56.8	“
6	18:45	60.8	68.2	62.8	57.9	“
6	18:50	60.5	67.5	62.3	57.4	“

Table A7: Summary Statistical Noise Levels – Daytime, 3 November 2015, Positions 5, 6

Measurement Position	Start Time	Noise Level, dB LAeq	Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)						
			63	125	250	500	1k	2k	4k
5	16:30	60.3	63.9	56.2	54.7	51.3	50.8	43.3	35.9
5	16:40	62.5	68.3	62.0	59.9	59.4	59.5	51.8	45.3
5	16:50	54.2	66.3	61.0	58.6	58.2	58.8	50.8	44.3
5	16:58	62.3	67.9	62.3	59.6	59.5	60.1	51.7	43.9
5	17:04	61.4	69.9	60.5	55.1	51.5	52.3	47.1	40.8
5	17:09	62.6	69.9	61.2	56.6	53.1	53.3	47.5	40.3
6	17:50	56.0	69.8	60.7	55.7	52.0	51.6	46.5	40.8
6	17:55	57.0	68.1	61.3	58.4	55.3	57.3	50.5	40.4
6	18:00	55.8	67.3	61.6	59.6	56.3	58.2	51.2	41.0
6	18:40	59.9	67.8	62.3	59.6	55.5	57.8	51.3	41.5
6	18:45	60.8	69.2	60.1	54.6	52.4	53.4	48.6	43.1
6	18:50	60.5	70.7	67.7	57.8	54.7	56.3	50.2	42.7

Table A8: Measured Octave Band L_{eq} Noise Levels – Daytime, 3 November 2015, Positions 5, 6

Measurement Position	Start Time	Measured Noise Levels, dB				Noise sources
		L_{Aeq}	L_{Amax}	L_{A10}	L_{A90}	
6	12:15	59.1	64.8	60.9	56.8	Road traffic
6	12:20	58.4	64.7	60.3	55.7	“
6	12:25	57.2	61.1	59.0	54.6	“
6	12:30	58.1	62.7	60.3	55.3	“
6	12:35	58.6	64.2	60.5	56.3	“
6	12:40	58.4	62.9	60.6	55.9	“

Table A9: Summary Statistical Noise Levels – Daytime, 5 November 2015, Position 6

Measurement Position	Start Time	Noise Level, dB LAeq	Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)						
			63	125	250	500	1k	2k	4k
6	12:15	59.1	64.7	54.3	53.4	53.2	57.3	49.7	38.4
6	12:20	58.4	65.2	54.1	53.0	52.4	56.6	49.1	38.4
6	12:25	57.2	65.6	54.7	52.7	51.4	55.2	48.0	38.0
6	12:30	58.1	67.2	56.2	54.4	53.5	55.8	48.6	38.7
6	12:35	58.6	66.4	56.2	53.2	52.6	56.7	49.2	39.0
6	12:40	58.4	65.1	54.8	52.8	52.7	56.6	48.8	38.2

Table A10: Measured Octave Band L_{eq} Noise Levels – Daytime, 5 November 2015, Position 6

Measurement Position	Start Time	Measured Noise Levels, dB				Noise sources
		L_{Aeq}	L_{Amax}	L_{A10}	L_{A90}	
8	01:10	57.5	62.6	59.3	55.7	Road traffic
8	01:15	56.9	59.8	58.1	55.6	"
8	01:20	56.9	60.6	58.7	55.0	"
9	01:26	54.8	59.7	56.9	51.9	"
9	01:31	56.6	61.5	58.9	53.5	"
9	01:36	55.3	58.8	56.9	52.8	"
9	02:21	55.9	59.8	57.4	53.3	"
9	02:26	55.1	64.6	57.2	52.4	"

Table A11: Summary Statistical Noise Levels – Night time, 20 November 2015, Positions 8, 9

Measurement Position	Start Time	Noise Level, dB LAeq	Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)						
			63	125	250	500	1k	2k	4k
8	01:10	57.5	58.0	52.5	50.7	52.4	55.1	49.4	41.8
8	01:15	56.9	56.1	49.4	48.7	51.3	54.4	49.1	41.5
8	01:20	56.9	57.7	50.3	48.9	51.7	54.4	49.0	41.6
9	01:26	54.8	57.2	49.9	48.6	49.2	52.8	46.1	33.2
9	01:31	56.6	56.1	50.9	49.3	50.3	54.8	48.0	34.0
9	01:36	55.3	56.4	50.5	48.6	49.0	53.4	46.8	32.6
9	02:21	55.9	60.1	52.6	49.1	49.7	53.9	47.5	36.7
9	02:26	55.1	58.0	51.7	48.3	48.7	53.1	46.8	35.2

Table A12: Measured Octave Band L_{eq} Noise Levels – Night time, 20 November 2015, Positions 8, 9

Measurement Position	Start Time	Measured Noise Levels, dB				Noise sources
		L_{Aeq}	L_{Amax}	L_{A10}	L_{A90}	
1	14:55	75.9	83.1	77.4	73.7	Road traffic
1	15:00	75.8	83.4	77.3	73.8	"
1	15:05	75.4	82.1	77.3	73.2	"
1	15:12	75.2	81.6	76.8	73.2	"
1	15:18	74.3	87.4	76.0	71.0	"
1	15:23	71.8	80.3	73.9	69.0	"
1	15:28	74.9	88.1	76.2	70.7	"
1	15:33	71.1	75.7	73.3	68.2	"
1	15:38	70.5	82.0	72.6	66.9	"
1	15:43	72.2	80.5	74.0	69.1	"
1	15:48	70.7	78.7	72.5	68.5	"
1	15:53	68.0	75.5	70.3	64.7	"
1	15:59	67.3	75.1	69.5	63.6	"

Table A13: Summary Statistical Noise Levels – Day time, 23 November 2015, Position 1

Measurement Position	Start Time	Noise Level, dB LAeq	Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)						
			63	125	250	500	1k	2k	4k
1	14:55	75.9	71.3	67.5	68.0	70.1	74.3	67.1	54.2
1	15:00	75.8	71.7	67.6	68.2	69.8	74.1	66.9	54.3
1	15:05	75.4	71.5	66.5	67.8	69.4	73.8	66.7	53.9
1	15:12	75.2	71.4	66.7	68.1	69.6	73.5	66.2	53.1
1	15:18	74.3	70.8	67.1	67.0	68.0	72.2	66.3	58.1
1	15:23	71.8	71.6	65.3	65.9	66.2	69.8	63.2	51.6
1	15:28	74.9	72.9	71.5	69.8	68.8	72.3	67.6	56.2
1	15:33	71.1	71.4	64.7	64.7	65.1	69.2	62.7	51.4
1	15:38	70.5	72.7	66.0	65.2	65.7	68.1	61.9	54.0
1	15:43	72.2	72.4	67.3	66.3	66.7	70.1	63.8	52.1
1	15:48	70.7	72.4	68.0	64.9	65.0	68.5	62.5	51.3
1	15:53	68.0	71.4	64.7	62.7	62.4	65.8	59.8	50.0
1	15:59	67.3	72.2	65.6	62.6	61.8	64.6	59.6	51.0

Table A14: Measured Octave Band L_{eq} Noise Levels – Day time, 23 November 2015, Position 1

Measurement Position	Start Time	Measured Noise Levels, dB				Noise sources
		L_{Aeq}	L_{Amax}	L_{A10}	L_{A90}	
8	16:19	55.6	60.8	56.6	54.6	Road traffic
8	16:24	55.3	61.0	56.2	54.3	"
8	16:29	56.1	65.0	57.2	55.0	"
9	16:36	55.6	62.3	57.7	53.6	"
9	16:41	55.6	63.6	57.1	53.9	"
9	16:46	54.8	63.1	56.3	52.7	"
9	17:10	55.4	67.2	56.9	53.3	"
9	17:15	55.5	61.3	57.1	53.4	"
9	17:20	55.9	62.2	57.6	54.3	"

Table A15: Summary Statistical Noise Levels – Day time, 23 November 2015, Positions 8, 9

Measurement Position	Start Time	Noise Level, dB LAeq	Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)						
			63	125	250	500	1k	2k	4k
8	16:19	55.6	63.0	55.7	52.8	51.3	52.9	46.5	36.8
8	16:24	55.3	63.2	53.8	52.3	51.0	52.7	46.0	36.7
8	16:29	56.1	63.1	56.3	52.9	51.6	53.3	47.3	37.9
9	16:36	55.6	63.4	58.4	53.0	51.4	52.9	46.2	34.4
9	16:41	55.6	62.9	54.7	53.2	51.9	52.6	46.2	40.0
9	16:46	54.8	63.0	54.0	52.2	50.8	52.2	45.4	34.3
9	17:10	55.4	64.3	59.3	53.4	51.1	52.2	45.9	39.1
9	17:15	55.5	63.4	53.6	51.8	50.8	52.6	47.3	39.3
9	17:20	55.9	63.9	54.0	52.2	51.6	53.1	47.4	38.7

Table A16: Measured Octave Band L_{eq} Noise Levels – Day time, 23 November 2015, Positions 8, 9

10. Human Health

No Appendices

11. Solar Glare

Appendix 11.1 – Solar Glare Assessment

Appendix 11.1

Solar Glare Assessment Results

gia CHARTERED SURVEYORS

DAYLIGHT & SUNLIGHT

SOLAR GLARE ASSESSMENT

Great Jackson Street - Plot F

06 July 2021

GIA No: **17759**

PROJECT DATA:

Client	**Renaker Build**
Architect	**Simpson Haugh**
Project Title	**Great Jackson Street - Plot F**
Project Number	**17759**

REPORT DATA:

Report Title	**Solar Glare Assessment**
GIA Department	**Daylight & Sunlight**
Dated	**06 July 2021**

Prepared by	**KST**
Checked by	**-**
Type	**ES APPENDIX**

Revisions	No:	Date:	Notes:	Signed:

SOURCES OF INFORMATION:

Information Received	**IR-04-05-17759**
Release Number	**Rel_01_17759_DSD**
Issue Number	**01**
Site Photos	**GIA**
3D models	**VERTEX**
OS Data	**FIND Maps**

Map data

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OS 100047514

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4 SCENARIO OVERVIEW 8

5 SENSITIVE RECEPTOR LOCATIONS 10

6 SOLAR GLARE ASSESSMENT 12

1 INTRODUCTION

GIA have assessed the proposed scheme in order to ascertain whether solar reflections given off the proposed building's facade will be visible from sensitive viewpoints which may affect road users and train drivers.

1.1 GLARE

Glare is a phenomenon occurring in the eye that is caused by the presence of bright light sources within the visual field. It can lead to visual discomfort and, if the glare source is very bright compared to its surrounding, even be disabling in the sense that objects become hard or impossible to see. This is because they are cloaked by the high intensity glare source, whose light gets scattered within the eye.

The CIE 146:2002 Collection on Glare expresses the latter type of glare more formally as:

"Disability glare is glare that impairs vision (CIE, 1987). It is caused by scattering of light inside the eye [...]. The veiling luminance of scattered light will have a significant effect on visibility when intense light sources are present in the peripheral visual field and the contrast of objects to be seen is low. "

"Disability glare is most often of importance at night when contrast sensitivity is low and there may well be one or more bright light sources near to the line of sight, such as car headlights, streetlights or floodlights. But even in daylight conditions disability glare may be of practical significance: think of traffic lights when the sun is close to them, or the difficulty viewing paintings hanging next to windows."

Glare is of particular concern if it affects drivers of motor vehicles or trains, since it might impair the visibility of signals and traffic signs, potentially putting the driver, passengers or other parties at risk.

1.2 GLARE FROM REFLECTED SUNLIGHT

Whether or not a sun reflection will cause an instance of glare depends upon a number of factors, these are summarised below:

- The location of the observer and his view direction;
- The sun's position in the sky, which changes not only with the hour of the day, but with the seasons too;
- The location and orientation of the reflective surface, e.g. a glazed facade, in relation to the observer's view direction;
- The specific quality of the reflective surface, e.g. sheen, specularity, etc.;
- The observer's physiology, e.g. age and eye pigmentation; and
- The background brightness defining the state of adaptation in the observer's eye;

This final point is an important one as the same brightness which could cause glare against a dark background may be perfectly acceptable when looked against a light one. A typical example of adaptation is illustrated in Fig. 01 and Fig. 02 where the same headlights cause glare at night whereas they do not during daytime hours.

Understanding whether solar glare is likely to occur is based on the observer's position and view direction. Given the transitory nature of the phenomenon, due to the sun's constant movement, any glare assessment should be carried out for a number of representative locations and view directions.

Such studies are often carried out with the help of sun path protractors, as depicted in Fig. 03 opposite, or with the aid of a full 3 dimensional computer simulation.

When a large number of locations need to be looked at, studies involving solar protractors become rather impractical. Computer software allows multiple view points to be assessed with greater ease so that it has even become feasible to render video sequences showing when and where reflections may become an issue.

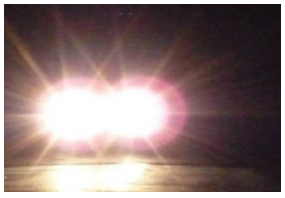


Fig. 01: Headlights at night



Fig. 02: Headlights during day

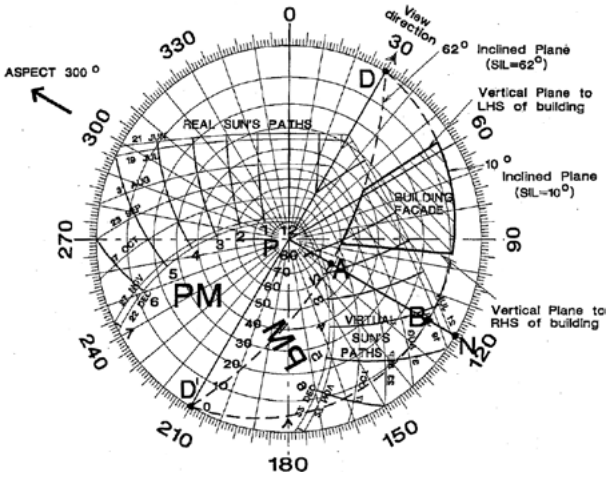


Fig. 03: Hassall's Protractor

1.3 EXISTING GUIDANCE

In the UK, guidance that is relevant to glare assessments is limited to a short section in Littlefair's Site Layout Planning for Daylight and Sunlight published by the BRE in 2011. This document is commonly referred to as BR 209. It suggests that:

"If it is likely that a building may cause solar dazzle the exact scale of the problem should be evaluated. This is done by identifying key locations such as road junctions and windows of nearby buildings, and working out the number of hours of the year that sunlight can be reflected to these points. BRE Information Paper IP 3/87 gives details."

BR IP3/87 provides more detailed instructions on why and how solar dazzle can be calculated:

"Glare or dazzle can occur when sunlight is reflected from a glazed facade. For vertical facades this problem usually occurs only when the sun is low in the sky; but some types of modern design incorporate sloping glazed facades which can, under certain circumstances, reflect unwanted high altitude sunlight into the eyes of motorists, pedestrians and people in nearby buildings."

Both BR 209 and BR IP3/87 only deal with geometrical considerations of glare by identifying when and where reflections occur. However, neither pieces of guidance suggest any threshold values above which reflected sunlight may give rise to an instance of glare. That such a threshold exists in theory becomes clear from the guidance in BR 209:

"... Substituting clear or absorbing glass for reflective glass can also help although sometimes even clear glass may cause reflected glare if, eg, a motorist has the reflected sun close to the centre of their line of sight."

Recommendations on acceptable limits for solar glare is equally sparse in other countries. The only document dealing with the subject is Hassall's Dealing with Rogue Solar Reflections from 1996. Although published in Australia, the theory, methodology and recommendations it introduced are equally applicable in other countries such as the UK.

The severity of glare can be calculated as the equivalent veiling luminance which is caused by the excess light being scattered in the eye thereby creating a 'veil' through which objects are seen. If the brightness of the veil is sufficiently high compared to that of the actual object, the latter becomes less visible. In very severe cases of disability glare, the object cannot be seen at all.

The veiling luminance can be calculated with a simple empirical formula first proposed by Holladay:

$$L_{seq}\ [cd/m^2] = K^*E_{gl}\ /Q^n < threshold$$

The Holladay glare formula depends on four variables, namely:

- **K**, which is a factor accounting for the observer's sensitivity to glare (eg. age);
- **Egl**, which is the illuminance from the glare source, measured at the eye of the observer;
- **Q**, the angle between the line of sight and the glare source;
- **n**, indicating the power with which Q affects the outcome;

An individual's sensitivity to glare is affected primarily by age. We used a K factor of 17.5 in our calculations, which represents a 65-year old driver.

According to CIE 146:2002, the n power in Holladay's equation has three angular domains:

- Q3 for angles between 0.1° and 1°;
- Q2 for angles between 1° and 30°; and
- Q for angles beyond 30°;

This angular dependency means that a glare source close to the object being looked at has a much more severe impact upon the visibility of that object than a glare source at the periphery of the observer's visual field.

As stated in CIE 146:2002, occurrences at angles beyond 30° would be of little significance in most situations, but may be relevant in exceptional circumstances. When seated in a driving seat of a typical car, for example, the limits of the windscreen would generally obstruct the driver's view at angles beyond 30° from the line of sight. We have therefore adopted the 1° to 30° domain as a reference for our calculations.

Hassall in his paper proposes a threshold value of 500 cd/m^2, which we have adopted as a threshold in our assessments.

2 GIA'S APPROACH

Following the guidance documents referenced above, GIA have developed specialised computer software in order to undertake reflected glare assessments.

The preparation of reflected solar glare assessments is based upon the approach described below, which entails:

- The construction of a three-dimensional computer model that includes the proposed building and its relevant setting;
- Rendering of stills of the solar reflections;
- Masking the images to represent the human field of view; and
- Image analysis.

The individual steps of our work flow are further explained below.

2a 3D COMPUTER MODELLING

Detailed geometry of the proposed building, specifically of its facade and glazing configuration is provided by the project architects either in 2d format i.e. plans, sections and elevation drawings, or 3d format as a computer model. The received information is processed by GIA and prepared for assessment with our proprietary software.

A computer model of the proposed building's context is built from high resolution stereoscopic aerial photographs, examples of which are shown in Fig. 04 and Fig. 05.

This includes rail tracks, sleepers, gantries and signals as well as relevant neighbouring buildings. An example is provided in Fig. 06.



Fig. 04: High-resolution aerial photograph



Fig. 05: High-resolution aerial photograph (close-up)

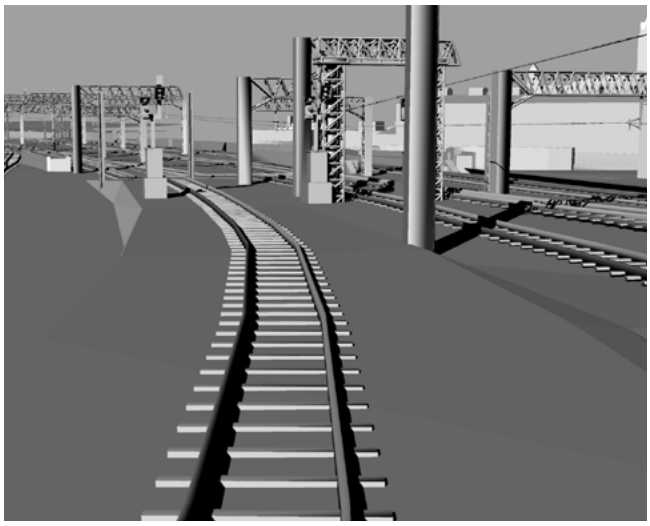


Fig. 06: Computer model of train tracks & signals from photogrammetry

3 METHODOLOGY

The methodology described below is not aimed at addressing the intensity of an instance of reflected solar glare, but its occurrence and duration throughout the year and the location of this occurrence in respect of a driver's line of sight.

This will inform the necessity of implementing mitigations at either early or detailed design stage.

For this purpose the glazed facade of the proposed development is assumed to have the same properties of a mirror i.e. it is fully reflective and all of its reflected component is specular. This therefore portrays a worst-case scenario.

The potential for reflected solar glare or dazzle from the glazed or reflective façades of the development are assessed using specialist lighting software.

Potentially sensitive viewpoints around the site are selected. These viewpoints representing locations where reflected solar glare may cause adverse impacts to those travelling towards the development, such as road users or train drivers. The viewpoints are generally located at the minimum stopping distance and at the driver's eye height. The focal point is a relevant traffic element, such as signals or incoming traffic.

The stopping distance is calculated as the combination of thinking and breaking distances $D_{total} = D_{thinking} + D_{breaking} = V*T + V^2/(2\mu*g)$, where each component is:

V = Relevant vehicle speed, typically the road speed limit.

T = Thinking time (0.67 sec)

μ = Breaking effort (considered 0.65 for cars, 0.5 for buses and 0.031 for trains)

g = Gravity acceleration.

The height of the viewpoint is considered to be 1.5 m for cars, 2.0 m for buses and 2.5 m for trains.

I.e. A viewpoint for car driving at 30 mph would be placed at 23 m (see Figure 4) from a traffic light and at 1.5 m above the ground.

2.3 FIELD OF VIEW

"The field of view (also field of vision) is the angular extent of the observable world that is seen at any given moment."

"Different animals have different fields of view, depending on the placement of the eyes. Humans have an almost 180-degree forward-facing field of view[...]."

(http://en.wikipedia.org/wiki/Field_of_view)

"The normal human visual field extends to approximately 60° nasally (toward the nose, or inward) in each eye, to 100° temporally (away from the nose, or outwards), and approximately 60° above and 75° below the horizontal meridian. In the United Kingdom, the minimum field requirement for driving is 60° either side of the vertical meridian, and 20° above and below horizontal. The macula corresponds to the central 13° of the visual field; the fovea to the central 3°."

(http://en.wikipedia.org/wiki/Visual_field)

"The fovea centralis, also generally known as the fovea, is a part of the eye, located in the centre of the macula region of the retina. The fovea is responsible for sharp central vision (also called foveal vision), which is necessary in humans for reading, watching

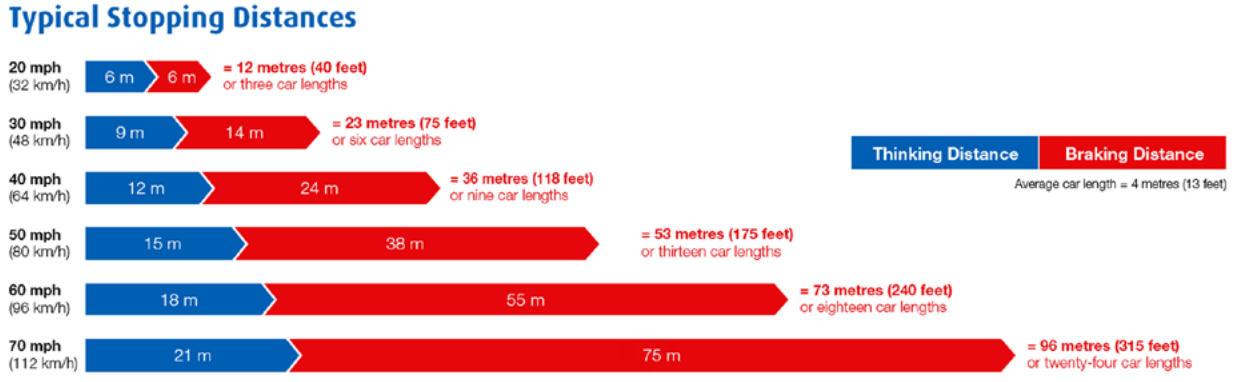


Fig. 07: Typical car stopping distances for various speed limits

television or movies, driving, and any activity where visual detail is of primary importance."

(http://en.wikipedia.org/wiki/Fovea_centralis_in_macula)

2.4 RENDERING OF STILLS AND VIDEO ANIMATIONS

As mentioned above, glare is a phenomenon that depends on the observer's location, but also on his view direction. In the case of a train driver the view direction is defined by the rail tracks. UK recommendations set the eye level of the driver at 2.75 m above the rails. The view point is centred between the tracks for ease of reference. Although train drivers sit slightly to the left within the cabin, this bears no material effect on the analysis of the images as the signals are visible at a distance of hundreds of metres at which point the slight shift in the cabin equates to a very small angular change. Fig. 09 shows the typical set up of our viewpoints. Actual trains and driver's cabin are not included in our 3d computer model.

Individual virtual cameras located accordingly in our 3d computer model are spaced between 1 and 3m apart in the direction of travel. Before the stills are compiled into video clips, a human field of view mask is overlaid onto them in order to define the angular distance between the instance of reflection and the observer's line of sight.

This procedure allows for the assessment of entire stretches of railway tracks providing a complete overview of potential risks as well as information about signal sighting.

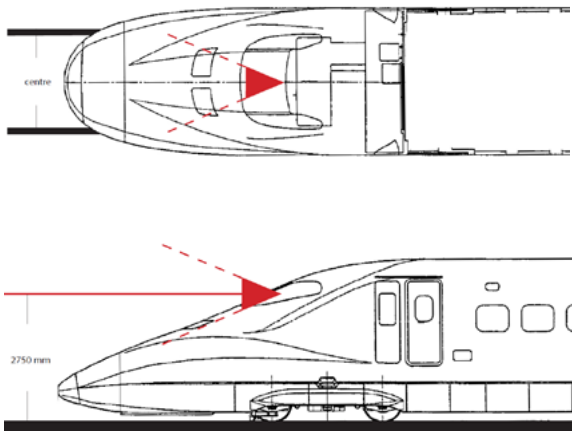


Fig. 08: Driver Viewpoint

2.5 IMAGE ANALYSIS

The assessment shows the path of the sun for the entire year around the development. Two computer generated angular images are produced for each selected viewpoint, indicating the area which sees the reflection of the sunpath at any point during the year. A modified diagram portraying a standardised extent of human vision (Fig. 09) is then overlaid onto the image.

The image highlights the degrees of vision corresponding to the foveal view with a red circle of 3° of angle in order to identify the area most sensitive to reflected solar glare.

Another red circle represents the incidence of the 30° radius of our typical field of view in order to identify a secondary area of sensitivity to potential reflected glare instances.

As stated in the CIE 146:2002 occurrences at angles beyond 30° would be of little significance in most situations, but may be relevant in exceptional circumstances. When seated in a driving seat of a typical car, for example, the limits of the windscreen would generally obstruct the driver's view at angles beyond 30° from the line of sight.

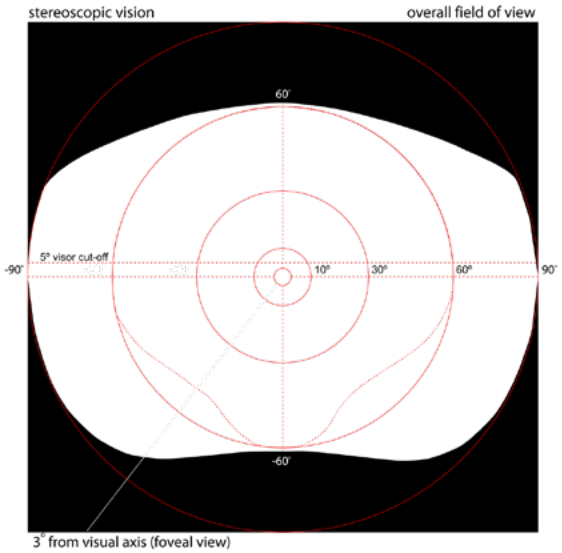


Fig. 09: Typical human field of view

2.6 STAGE 1

In order to establish the potential for the occurrence of reflected sunlight with regards to the times of the year and hours of the day when this may happen, as well as its relative location to the observer's line of sight, the yearly sun path is mapped onto the sky and colour-coded so that the hours of the day and the period of the year can be distinguished. This sun path is picked up by the reflective elements of the proposed buildings in our rendered stills.

Fig. 10 shows the colour coded sunpaths projected onto the sky dome to visualise the time of day and season during which solar reflections occur.

Two identical viewpoints are rendered, shown in Figs. 11 and 12, one focussing on the times of the day when the reflection would be visible, and the second looking at the months throughout the year.

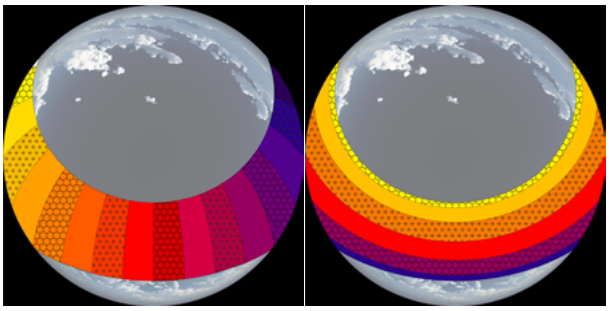


Fig. 10: Stage 2 - Colour coded sunpath for time of day and seasons

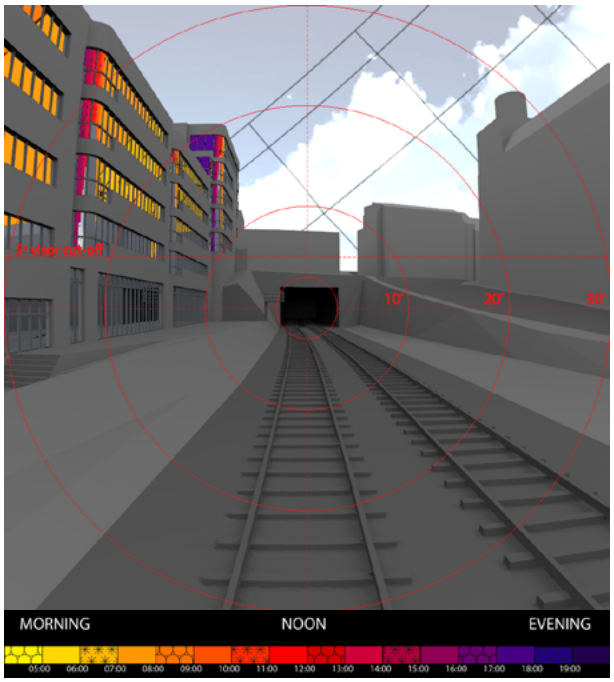


Fig. 11: Stage 1 Example - Hours

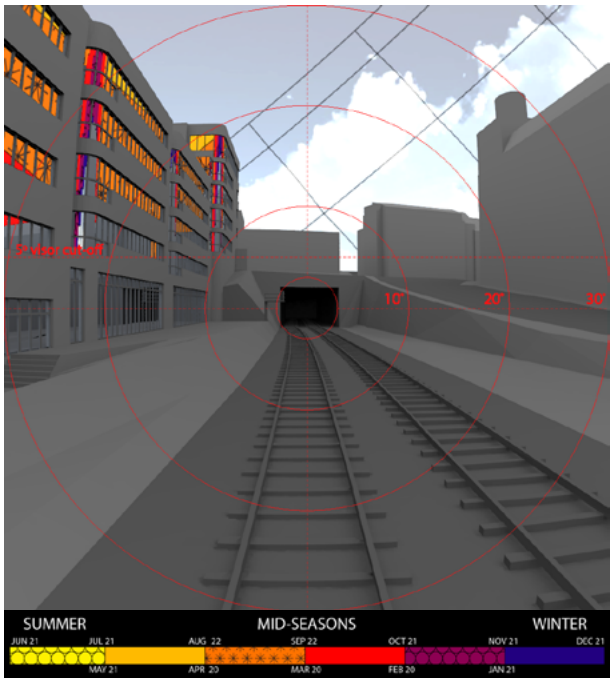


Fig. 12: Stage 1 Example - Months

2.7 LIMITATIONS

Although great care is taken in identifying typical viewpoints around a new development this does not guarantee that there are no further sensitive locations where reflected solar glare could present a particular risk. This assessment is based on the assumption that in an urban environment moving traffic represents the biggest risk factor and so viewpoints and focus points are selected accordingly.

For practical reasons the area of the assessment is limited to the vicinity of a new development. The occurrence of reflected solar glare at greater distances is not subject of this assessment.

IMPORTANT: The hours shown in the diagrams and described in the text reflect solar time and therefore do not take Daylight Saving Hours into account.

4 SCENARIO OVERVIEW



Fig. 13: Site Overview Perspective - Proposed Development



Fig. 14: Site Plan - Top - Proposed Development

5 SENSITIVE RECEPTOR LOCATIONS

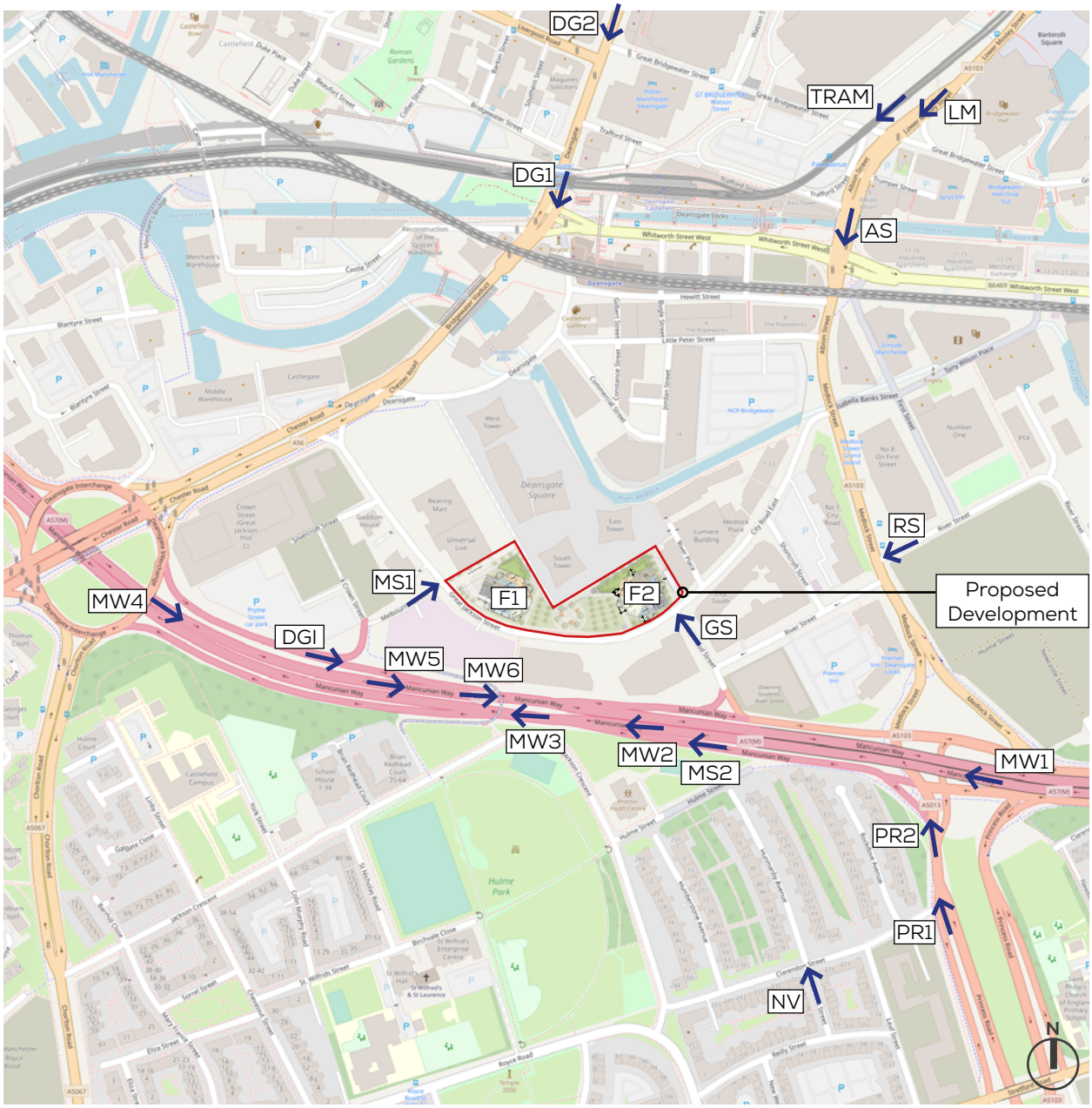


Fig. 15: Site Plan - Junctions

Viewpoint Key

DG1 - Deansgate junction with Whitworth Street West (page 12 - 17)

DG2 -Deansgate junction with Great Bridgewater Street (page 18 - 23)

LM - Lower Mosley Street junction with Whitworth Street West (page 24 - 29)

AS - Albion Street junction with Great Bridgewater Street (page 30 - 37)

RS - River Street junction with Medlock Street (page 38 - 41)

GS - Garwood Street junction with Great Jackson Street (page 42 - 45)

MS1 - Melbourne Street junction with Great Jackson Street (page 46 - 49)

DGI - Deansgate Interchange slip-road to Mancunian Way/Ring Road (page 50 - 53)

MW4 - Mancunian Way/Ring Road viewpoint emerging from beneath Deansgate Intechange underpass (page 54 - 57)

MW5 - Mancunian Way/Ring Road viewpoint approach merging traffic from Deansgate Interchange slip-road (page 58 - 61)

MW6 - Mancunian Way/Ring Road viewpoint approaching Medlock Street Junction off-ramp (page 62 - 65)

MS1 - Mancunian Way/Ring Road viewpoint when passing over Medlock Street Junction (page 66 - 69)

MW2 - Mancunian Way/Ring Road viewpoint approach merging traffic from Medlock Street Junction slip-road (page 70 - 73)

MW3 - Mancunian Way/Ring Road viewpoint approach Deansgate Interchange off-ramp (page 74 - 77)

MS2 - Medlock Street Junction slip-road to Mancunian Way/Ring Road (page 78 - 81)

PR1 - Princess Road and Medlock Street junction (page 82 - 87)

PR2 - Medlock Street Junction approaching slip-road to Mancunian Way/Ring Road (page 88 - 91)

NV - New Vine Street junction with Clarendon Street (page 92 - 95)

TRAM - Tram lines approaching Deansgate-Castlefield Station (page 96 - 99)

6 SOLAR GLARE ASSESSMENT

Deansgate Southbound Junction 1 (with Whitworth Street West)



Fig. 16: Junction Location



Fig. 17: Traffic Light Location

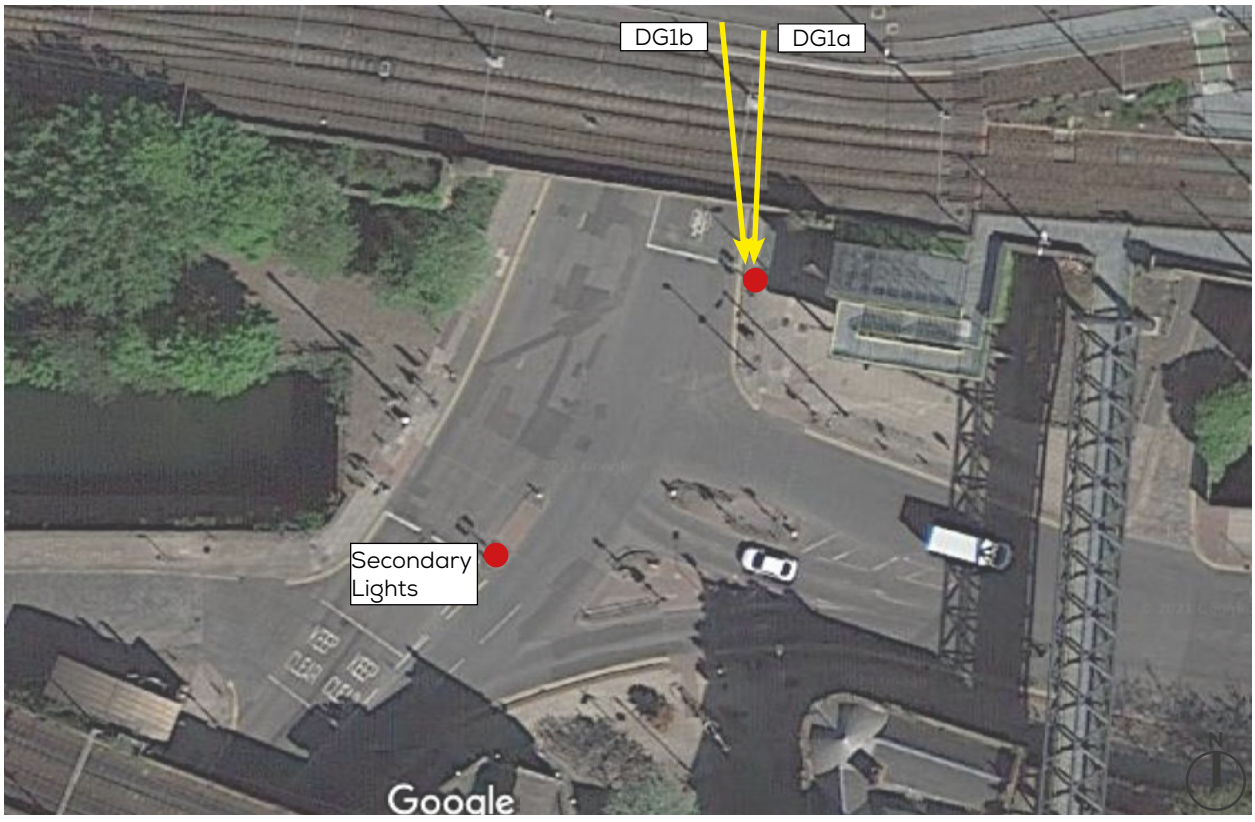


Fig. 18: Viewpoints

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT DG1A - DEANSGATE JUNCTION 1 (WITH WHITWORTH STREET WEST) LEFT LANE, LOOKING AT TRAFFIC LIGHT

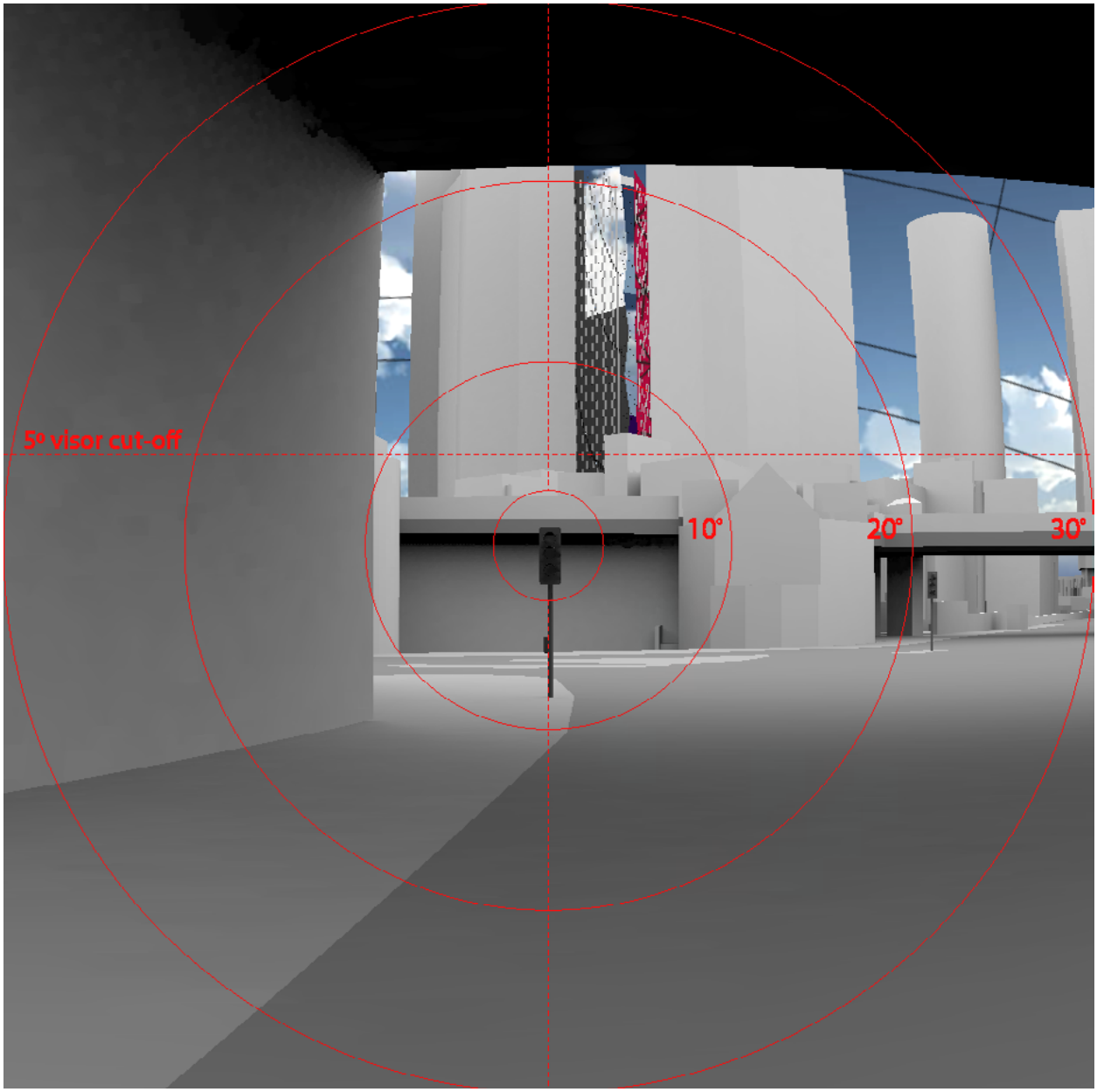
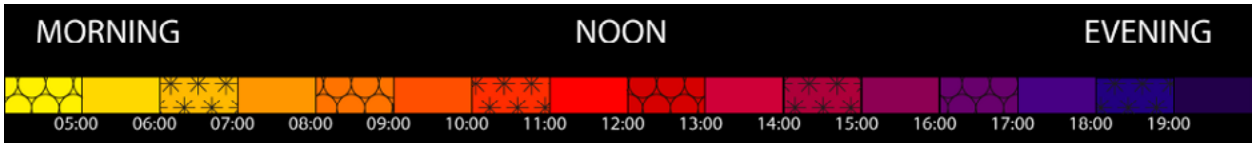


Fig. 19: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT DG1A - DEANSGATE JUNCTION 1 (WITH WHITWORTH STREET WEST) LEFT LANE, LOOKING AT TRAFFIC LIGHT

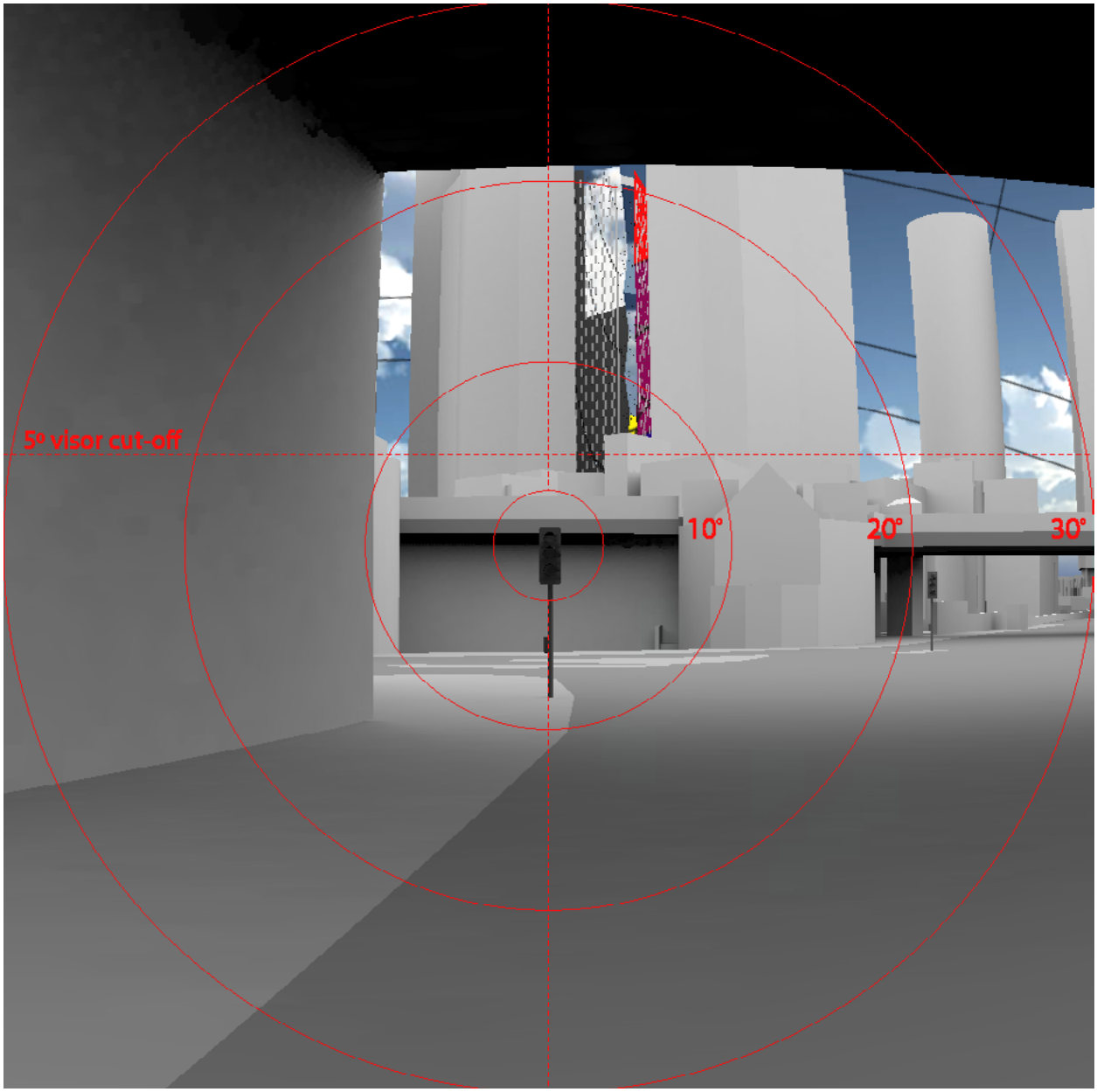


Fig. 20: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT DG1B - DEANSGATE JUNCTION 1 (WITH WHITWORTH STREET WEST) RIGHT LANE, LOOKING AT TRAFFIC LIGHT

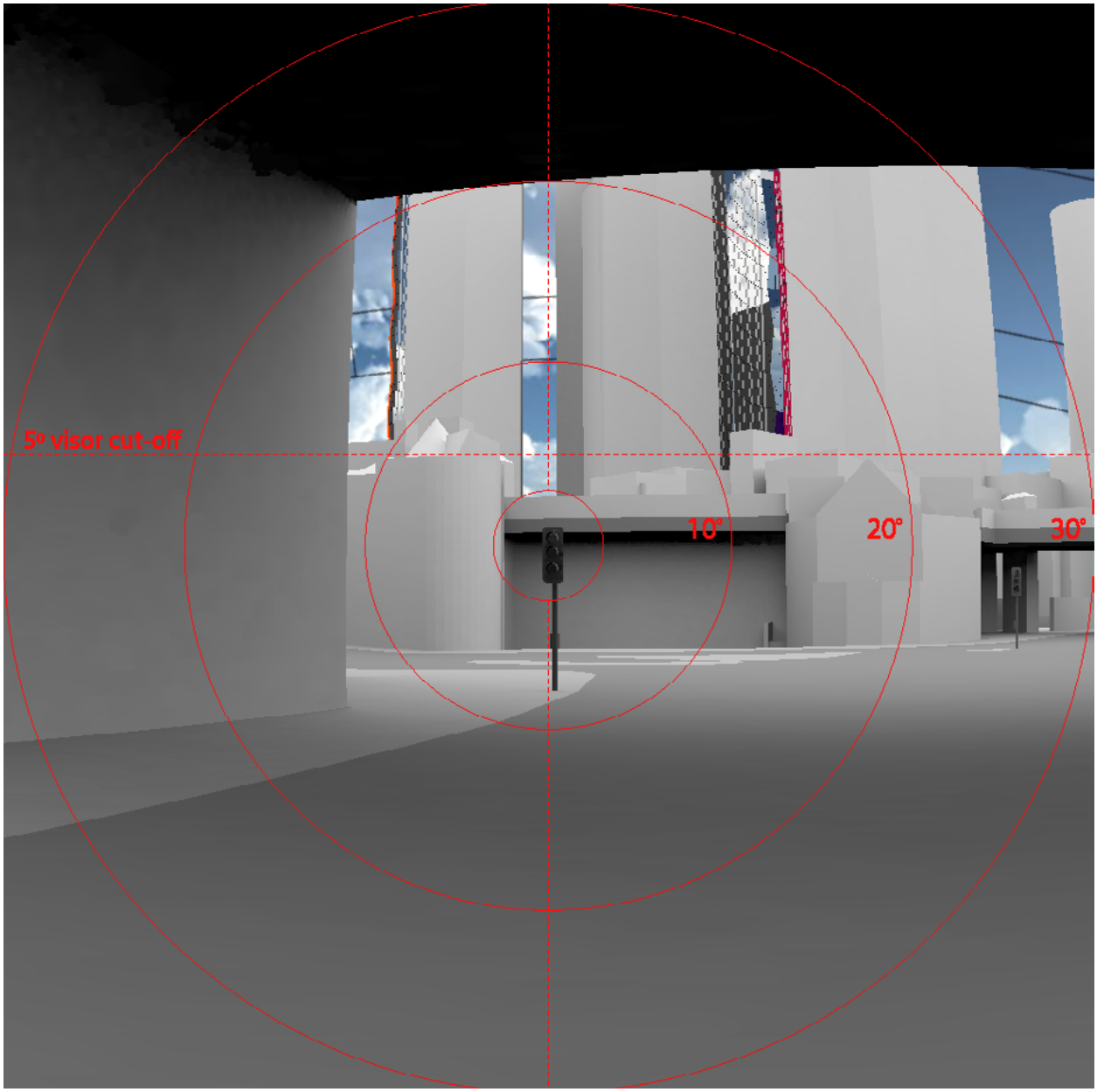
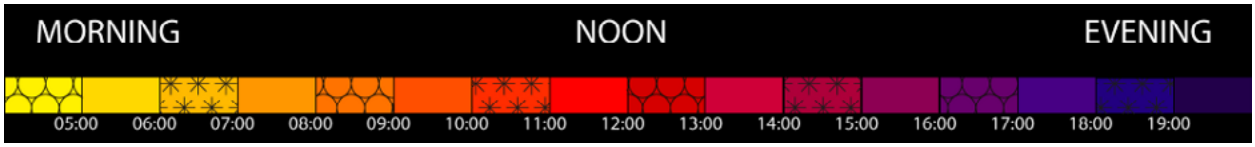


Fig. 21: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT DG1B - DEANSGATE JUNCTION 1 (WITH WHITWORTH STREET WEST) RIGHT LANE, LOOKING AT TRAFFIC LIGHT

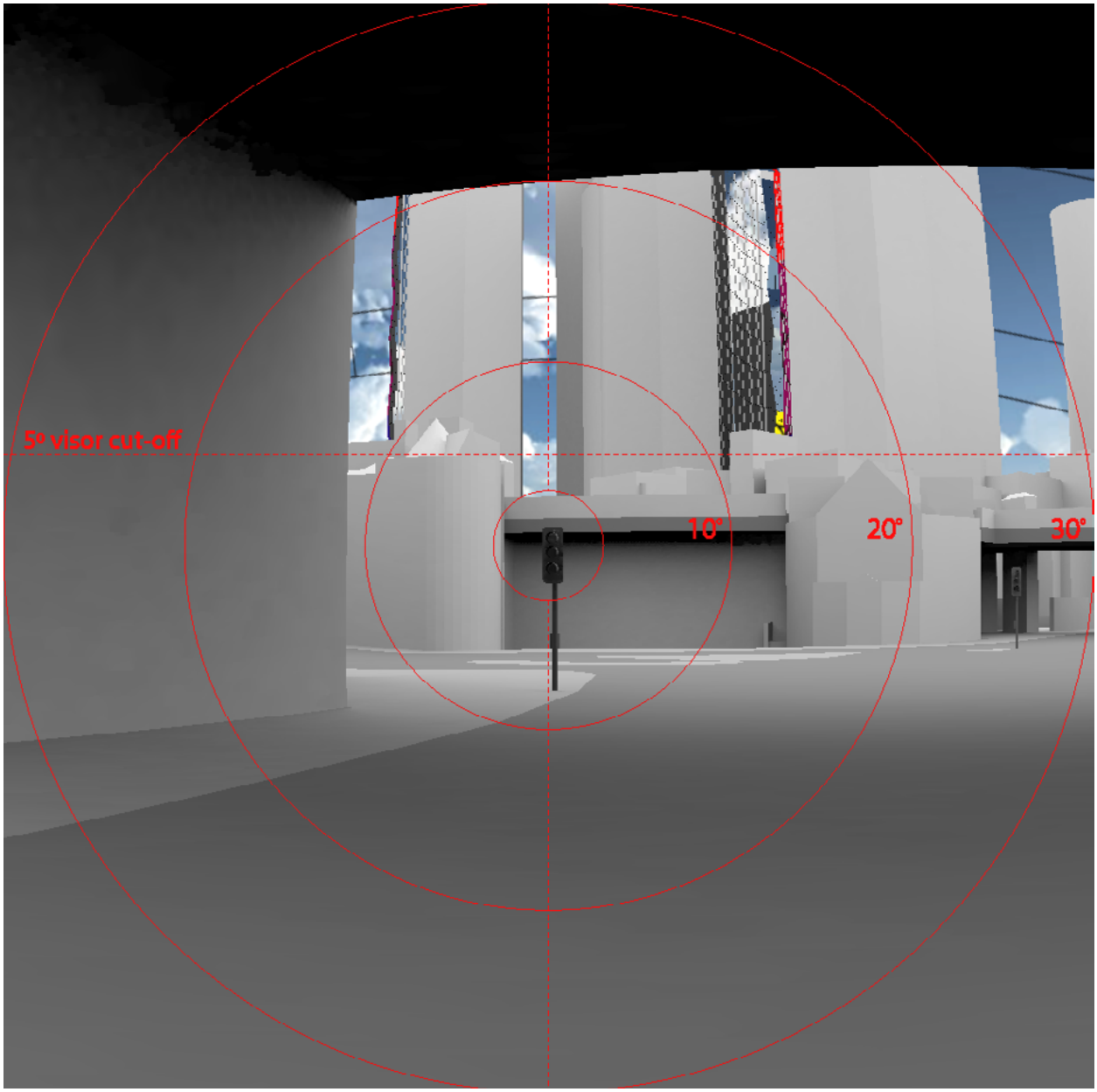


Fig. 22: Solar reflections



Deangate Southbound Junction 2 (with Great Bridgewater Street)



Fig. 23: Junction Location

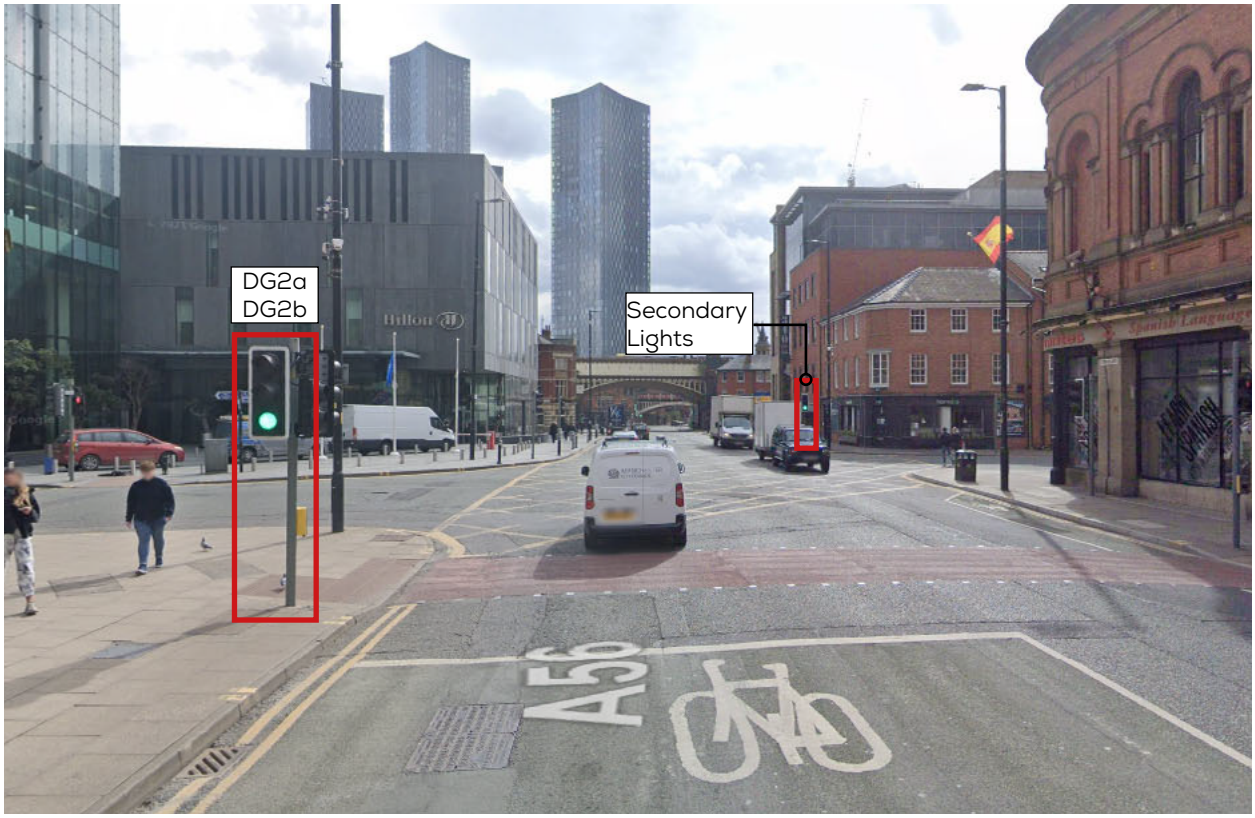


Fig. 24: Traffic Light Location

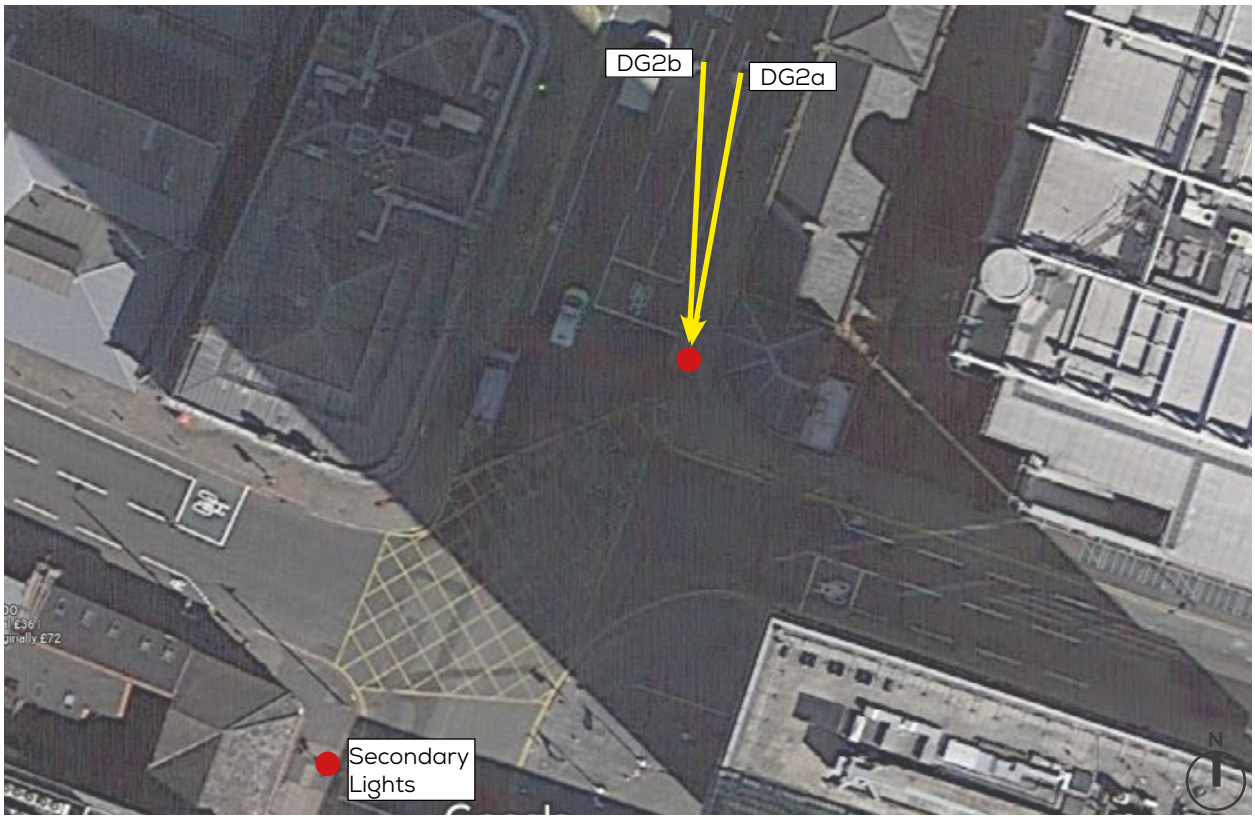


Fig. 25: Viewpoints

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT DG2A - DEANSGATE JUNCTION 2 (WITH GREAT BRIDGEWATER STREET) LEFT LANE, LOOKING AT TRAFFIC LIGHT

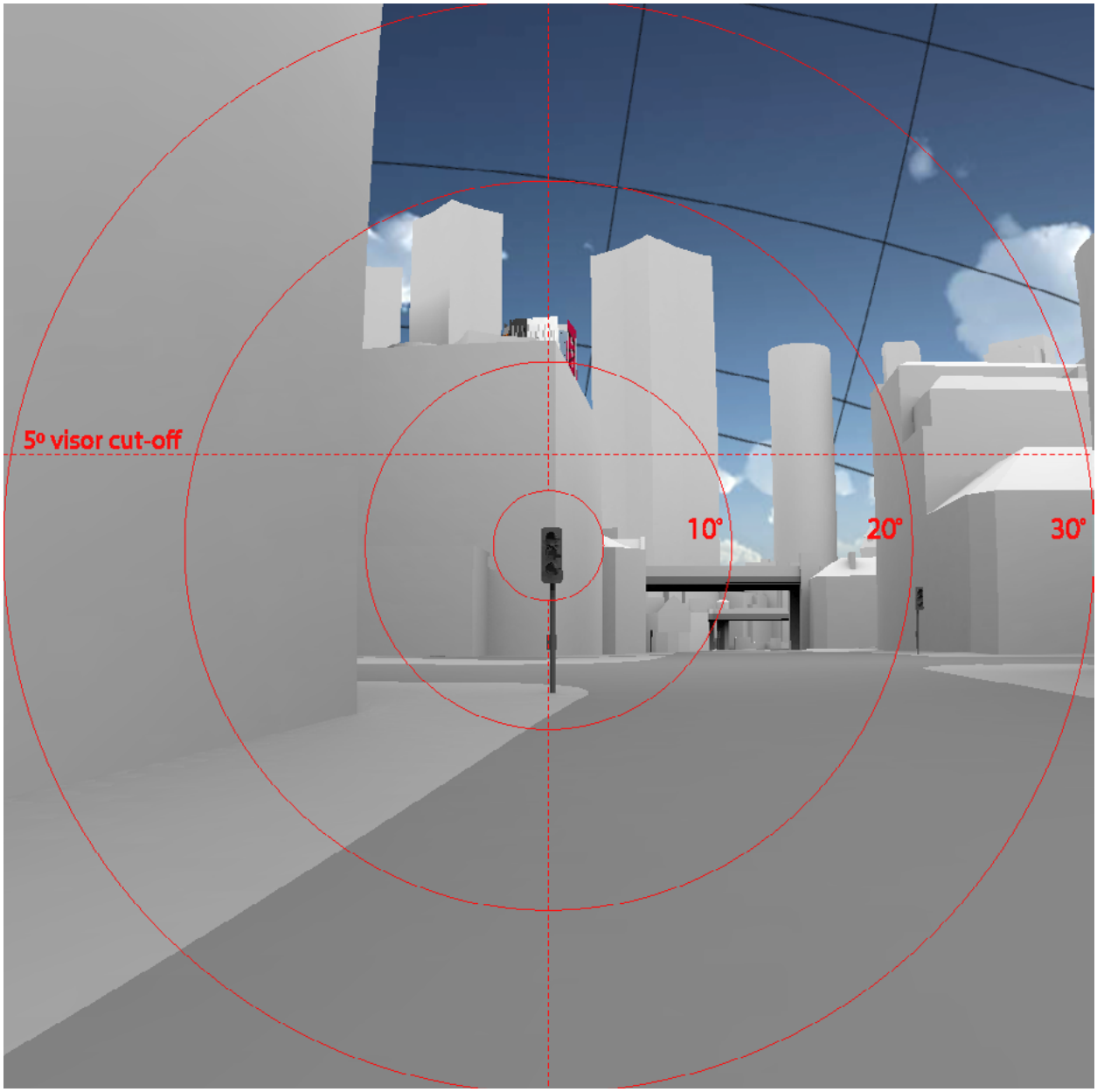
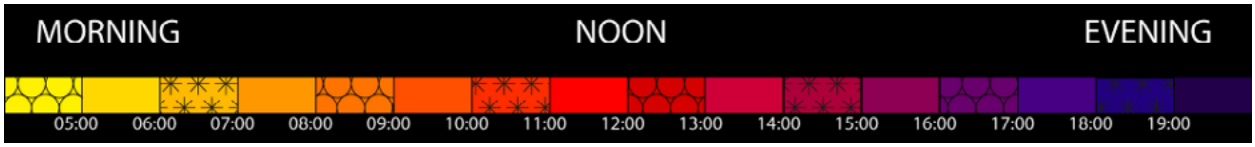


Fig. 26: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT DG2A - DEANSGATE JUNCTION 2 (WITH GREAT BRIDGEWATER STREET) LEFT LANE, LOOKING AT TRAFFIC LIGHT

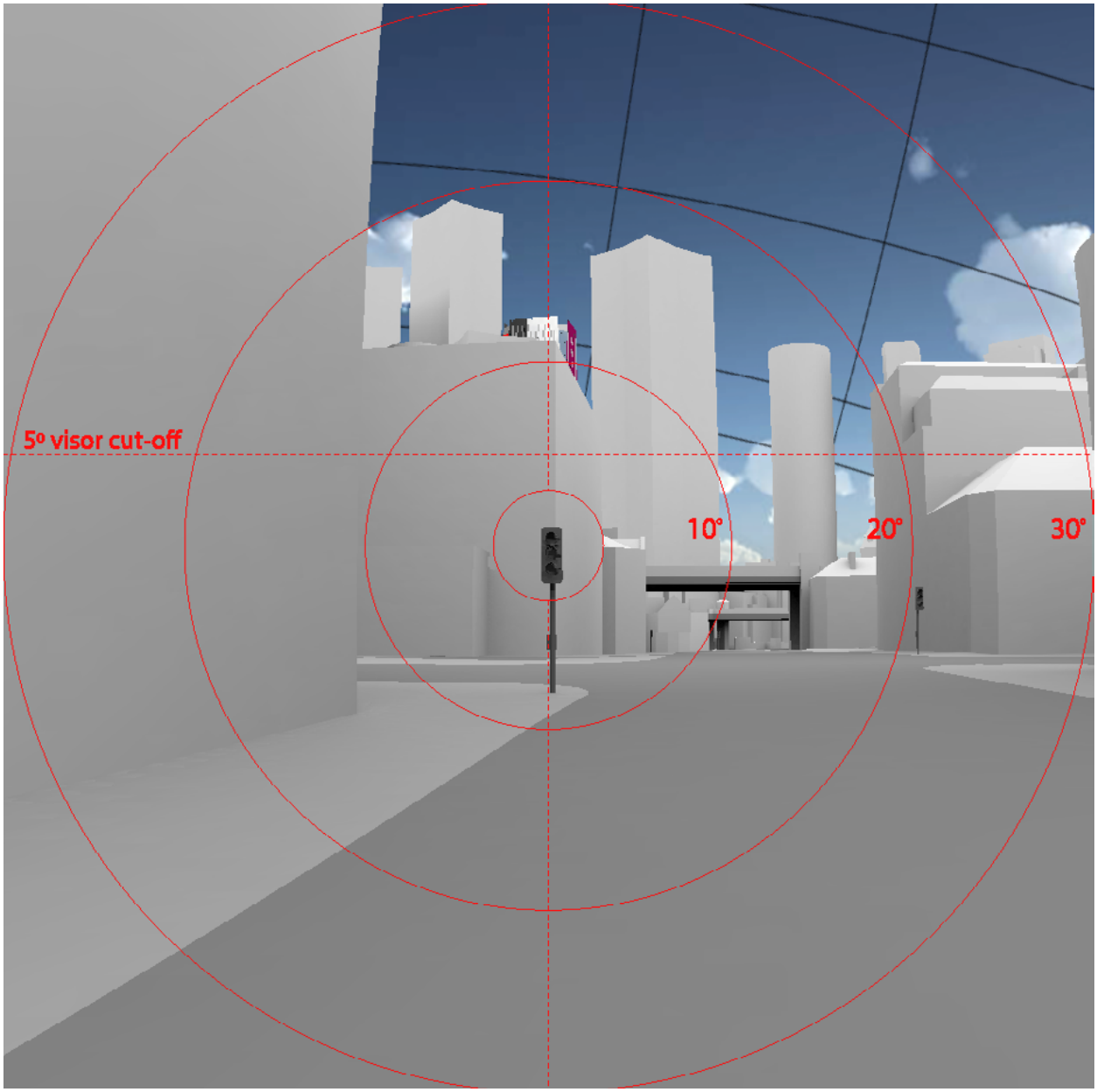


Fig. 27: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT DG2B - DEANSGATE JUNCTION 2 (WITH GREAT BRIDGEWATER STREET) RIGHT LANE, LOOKING AT TRAFFIC LIGHT

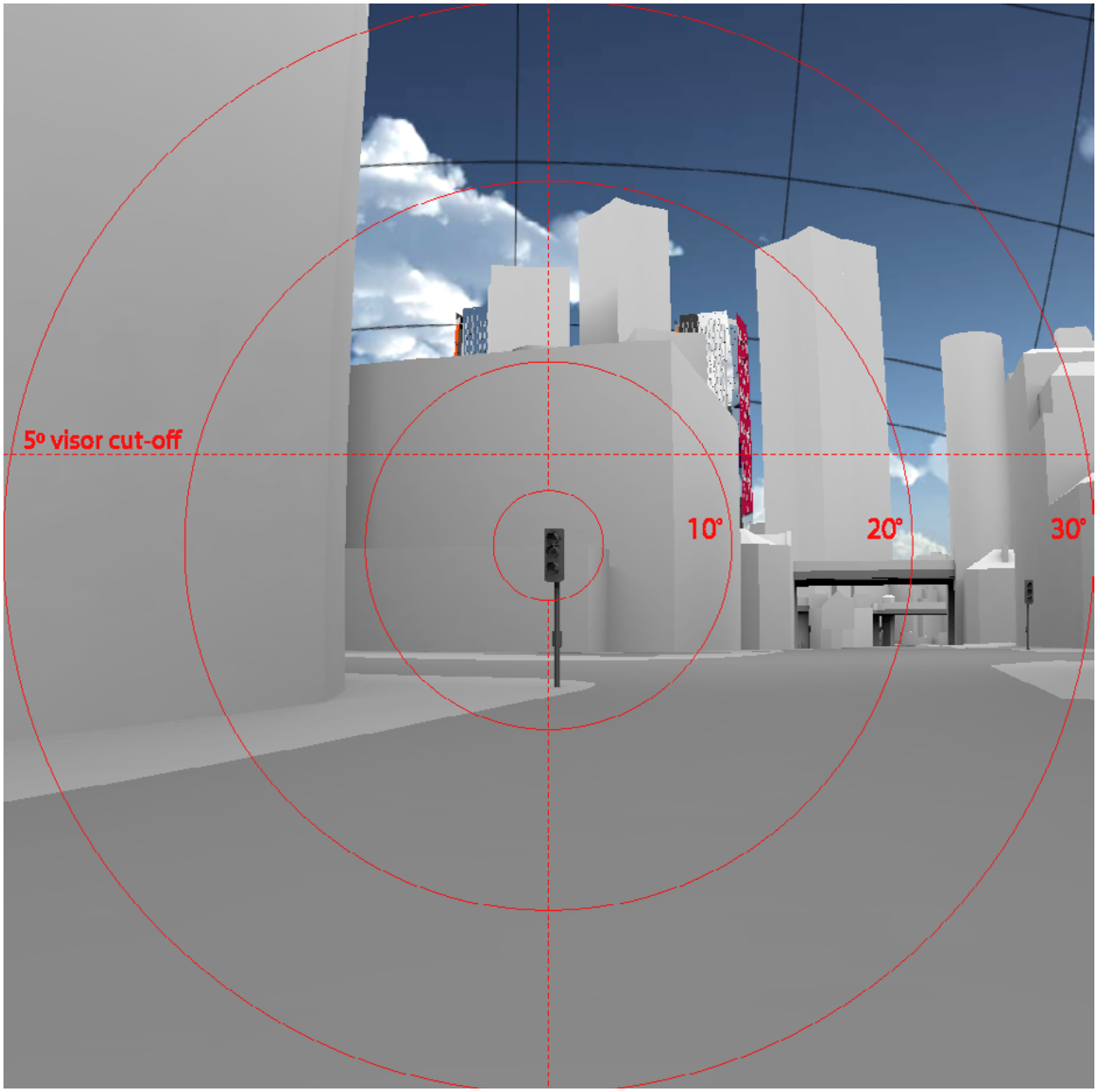
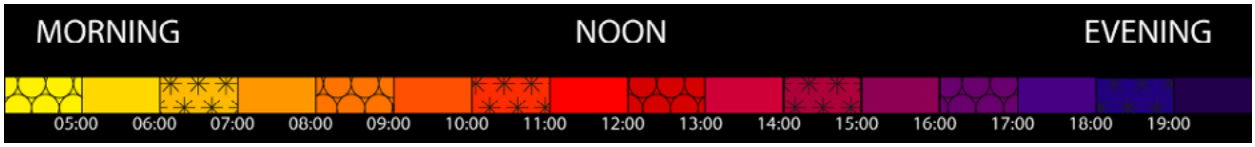


Fig. 28: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT DG2B - DEANSGATE JUNCTION 2 (WITH GREAT BRIDGEWATER STREET) RIGHT LANE, LOOKING AT TRAFFIC LIGHT

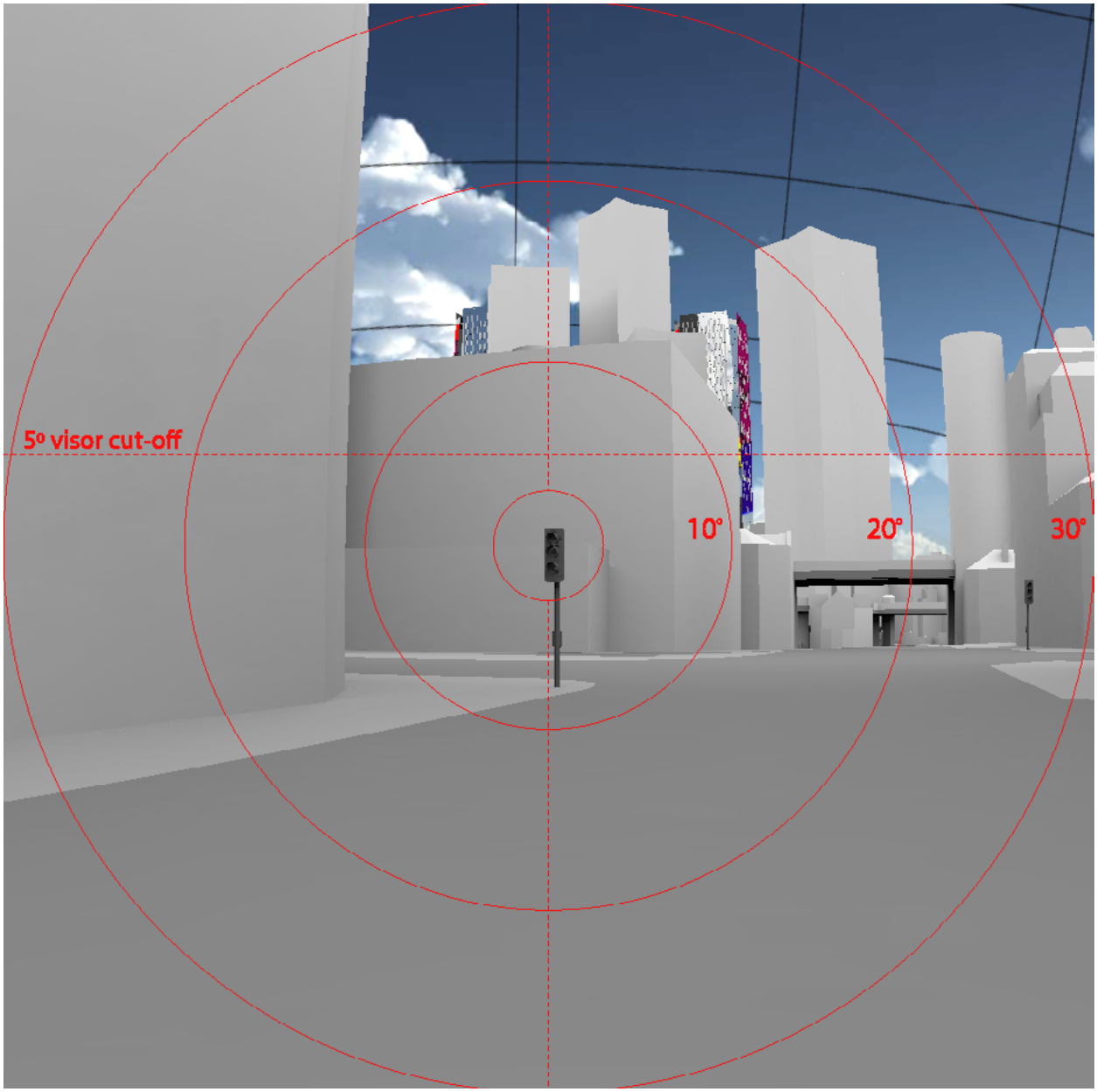


Fig. 29: Solar reflections



Lower Mosely Street Southbound Junction (with Great Bridgewater Street)



Fig. 30: Junction Location



Fig. 31: Traffic Light Location

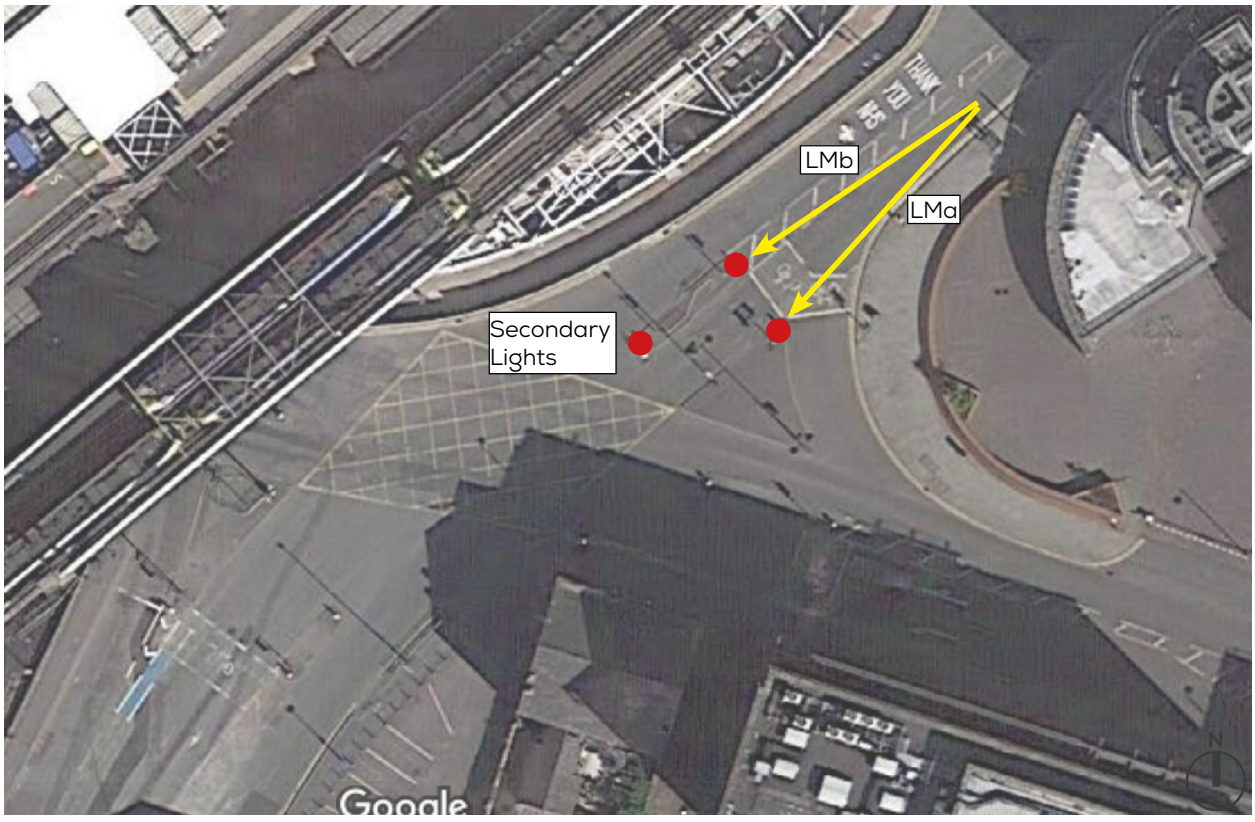


Fig. 32: Viewpoints

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT LMA - LOWER MOSLEY STREET JUNCTION (WITH GREAT BRIDGEWATER STREET) LOOKING AT LEFT TRAFFIC LIGHT

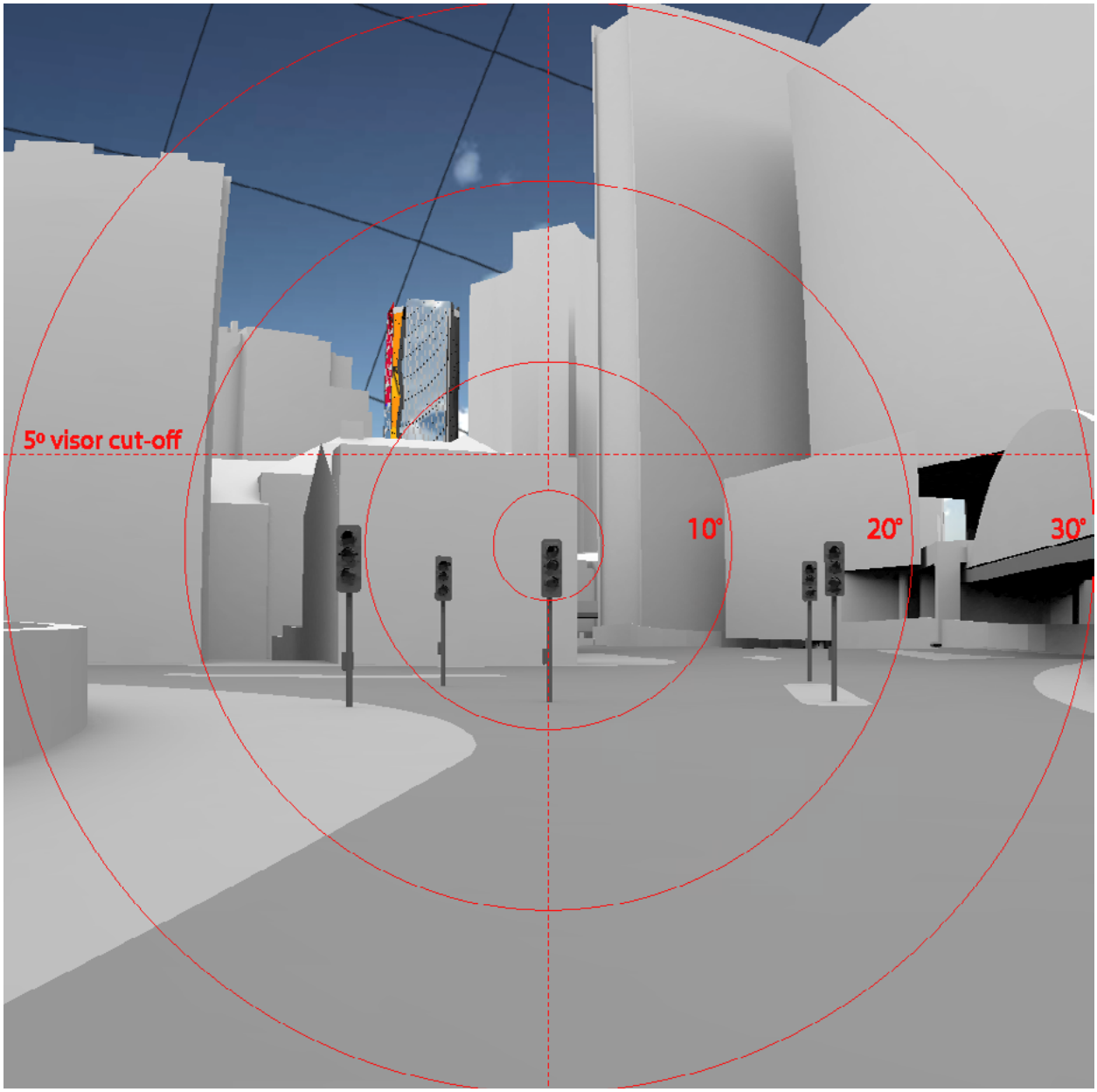
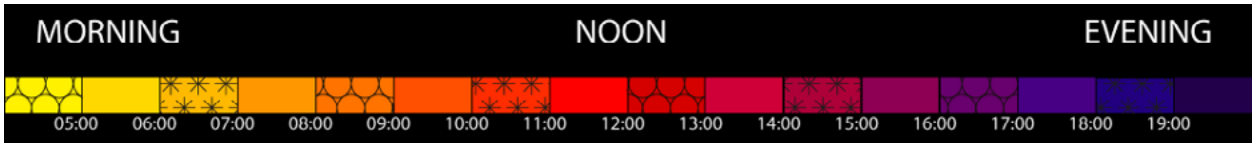


Fig. 33: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT LMA - LOWER MOSLEY STREET JUNCTION (WITH GREAT BRIDGEWATER STREET) LOOKING AT LEFT TRAFFIC LIGHT

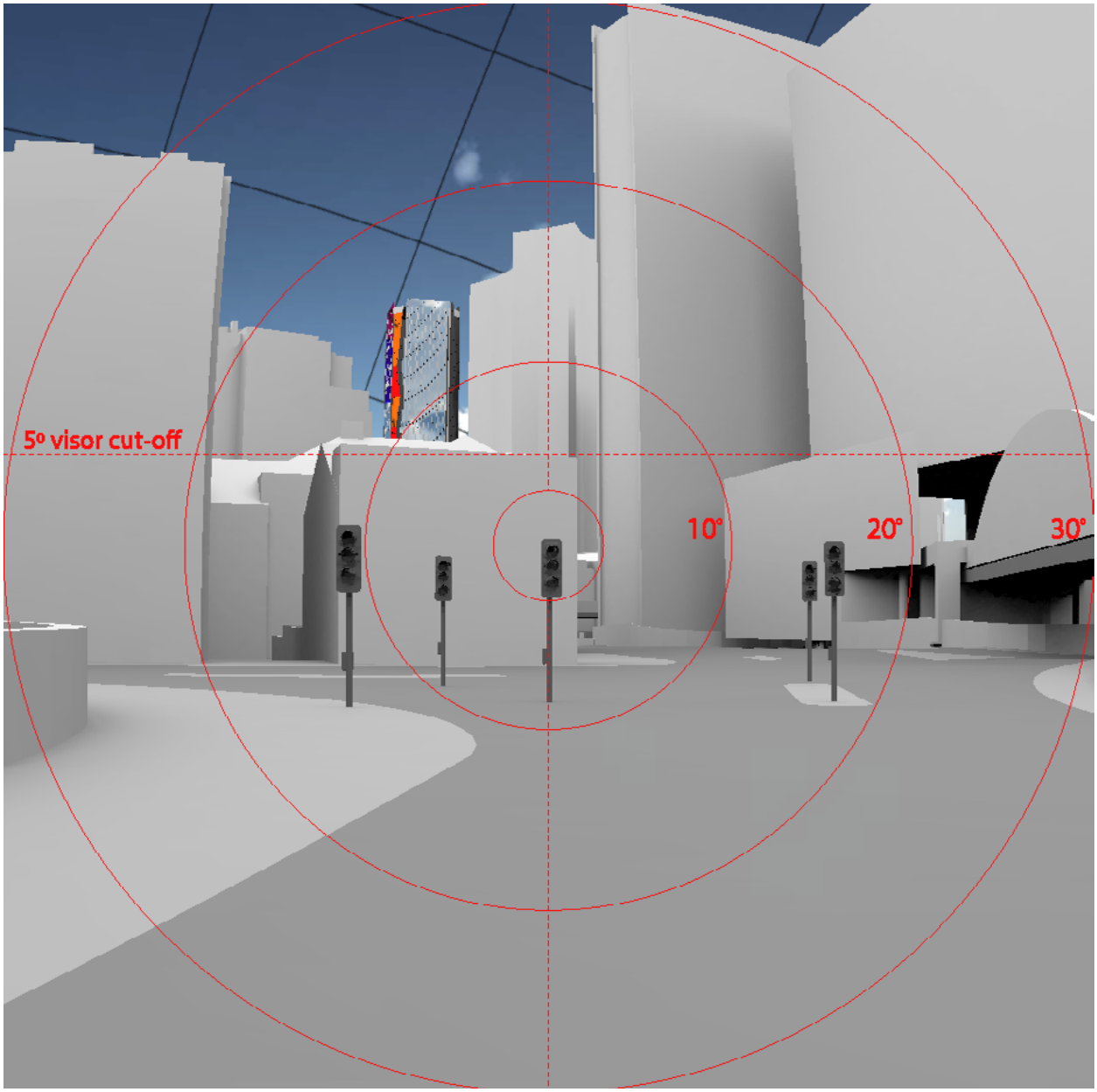


Fig. 34: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT LMB - LOWER MOSLEY STREET JUNCTION (WITH GREAT BRIDGEWATER STREET) LOOKING AT RIGHT TRAFFIC LIGHT

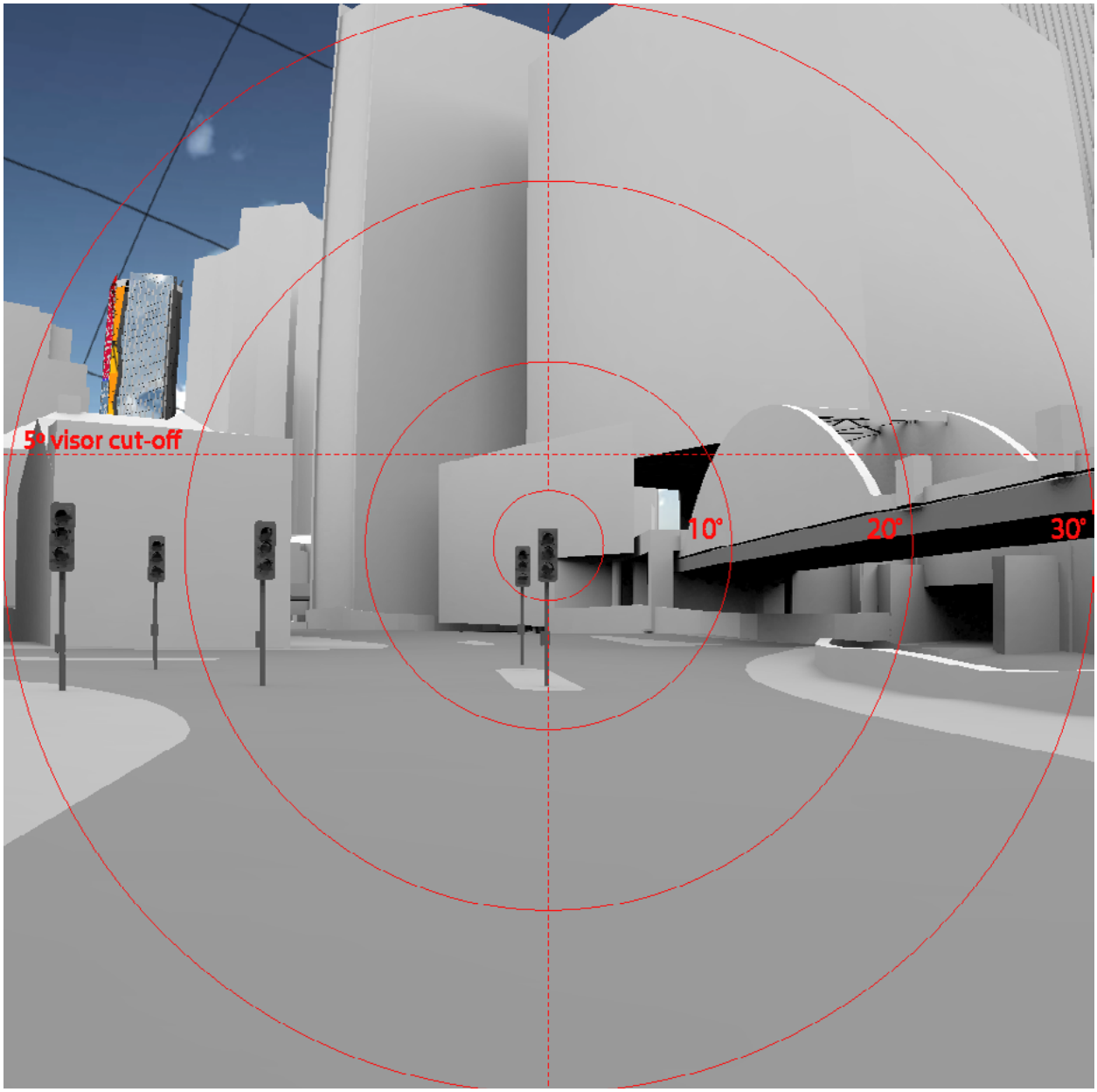
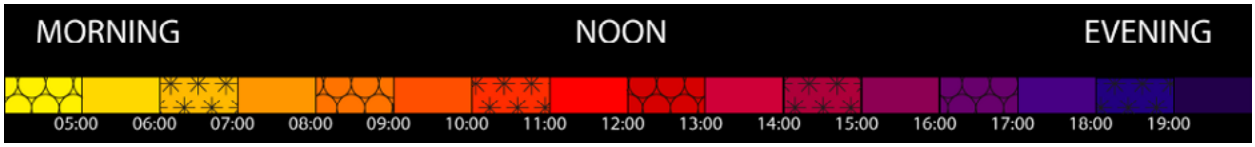


Fig. 35: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT LMB - LOWER MOSLEY STREET JUNCTION (WITH GREAT BRIDGEWATER STREET) LOOKING AT RIGHT TRAFFIC LIGHT

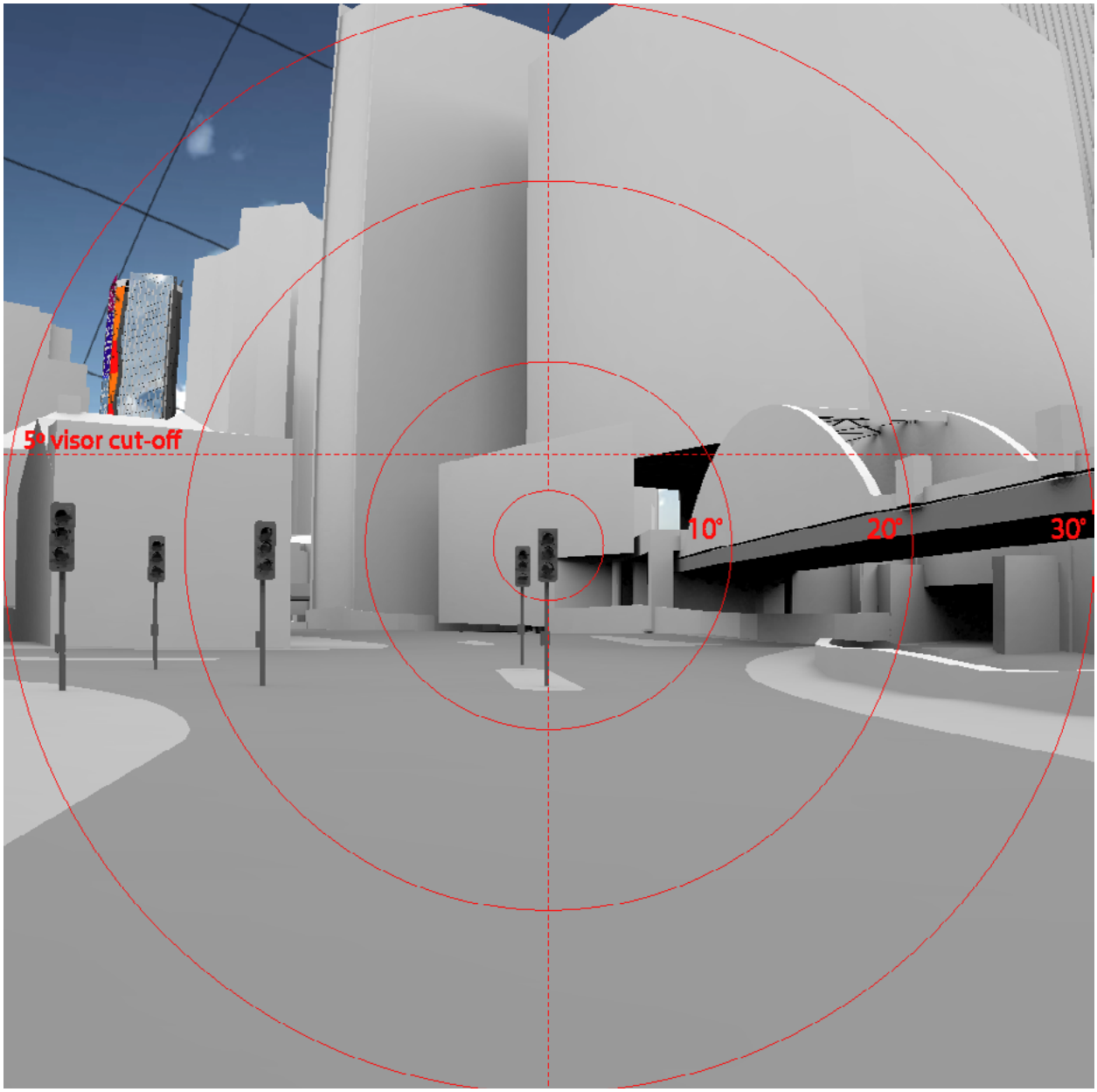


Fig. 36: Solar reflections



Albion Street Southbound Junction (with Whitworth Street West)



Fig. 37: Junction Location

Please note that Streetview image from the direct being assessed was unable to be obtained.



Fig. 38: Traffic Light Location

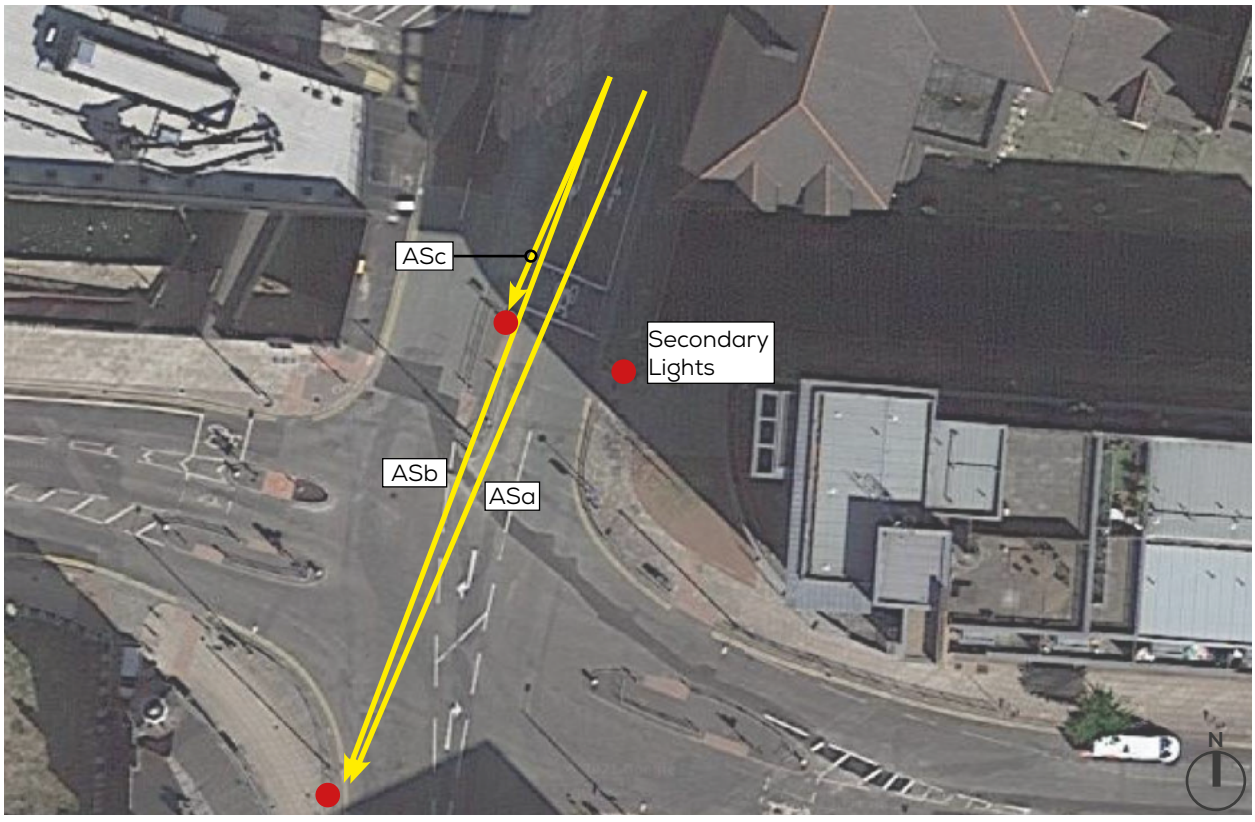


Fig. 39: Viewpoints

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT ASA - ALBION STREET JUNCTION (WITH WHITWORTH STREET WEST) LEFT LANE, LOOKING AT FAR TRAFFIC LIGHT

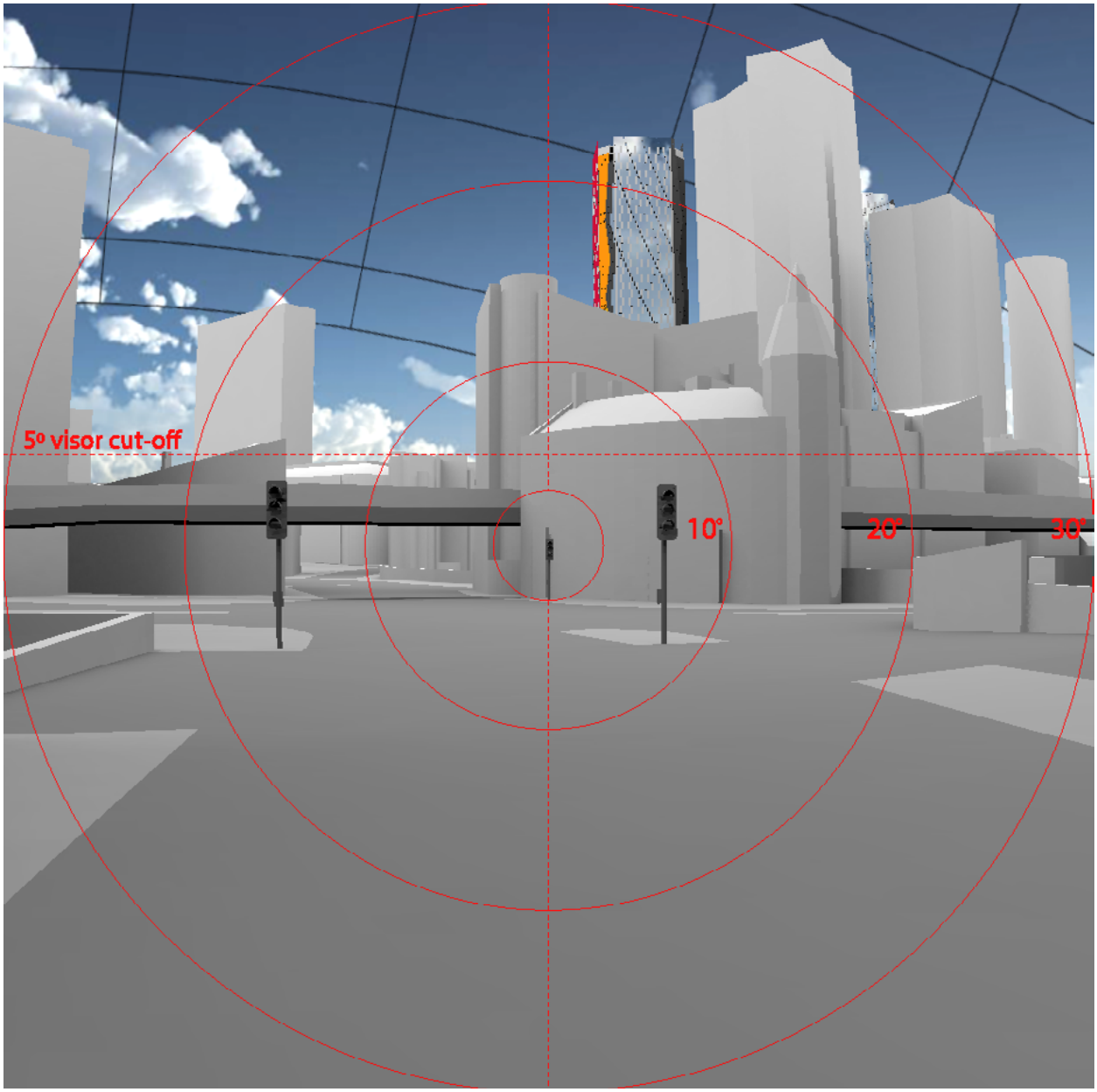
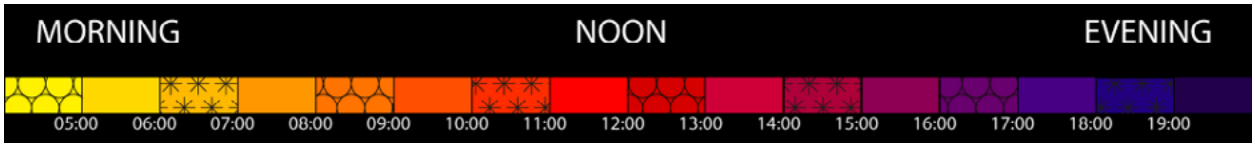


Fig. 40: Solar reflections



60° FIELD OF VIEW: SEASON

VIEWPOINT ASA - ALBION STREET JUNCTION (WITH WHITWORTH STREET WEST) LEFT LANE, LOOKING AT FAR TRAFFIC LIGHT

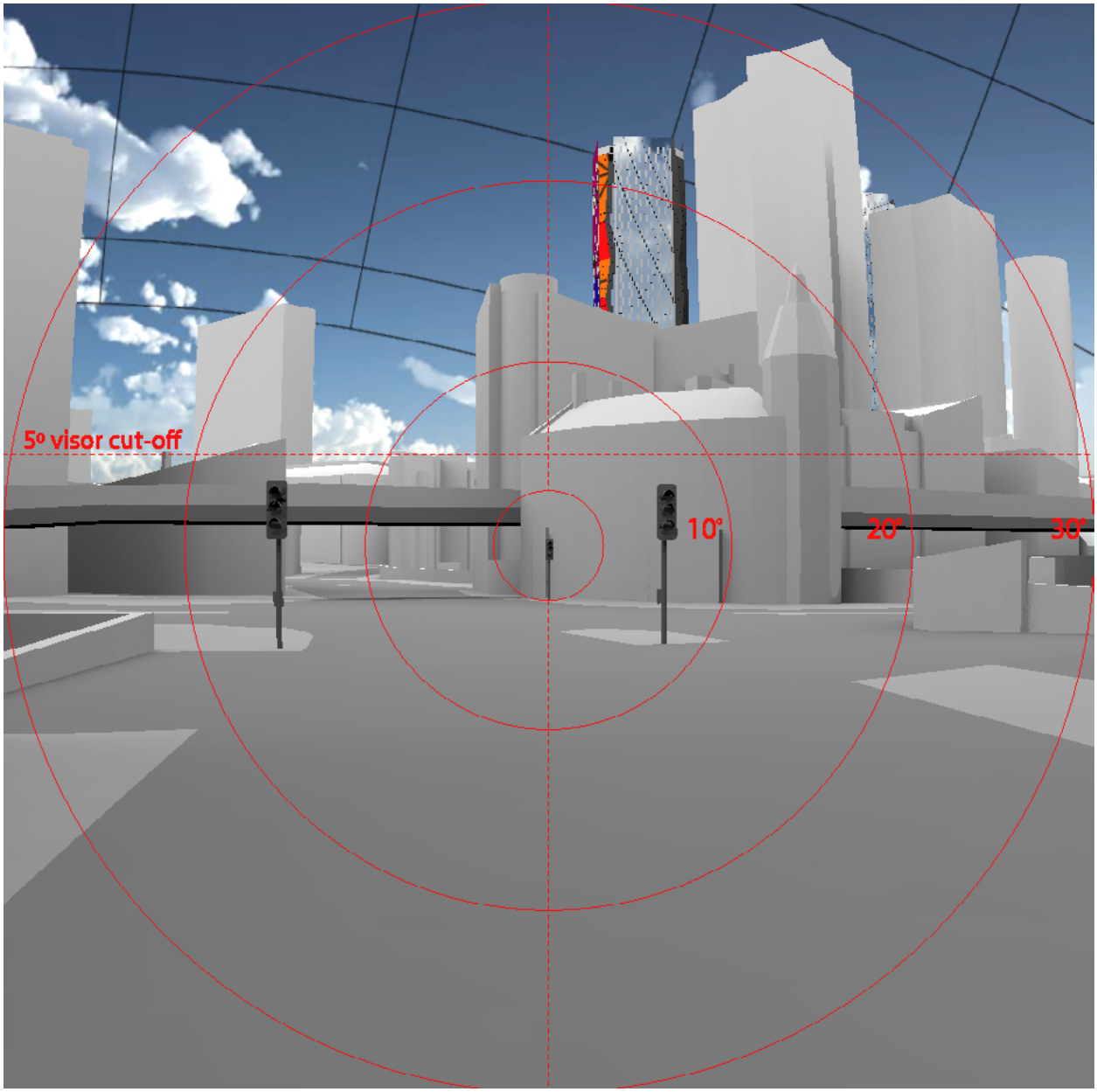


Fig. 41: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT ASB - ALBION STREET JUNCTION (WITH WHITWORTH STREET WEST) RIGHT LANE, LOOKING AT FAR TRAFFIC LIGHT

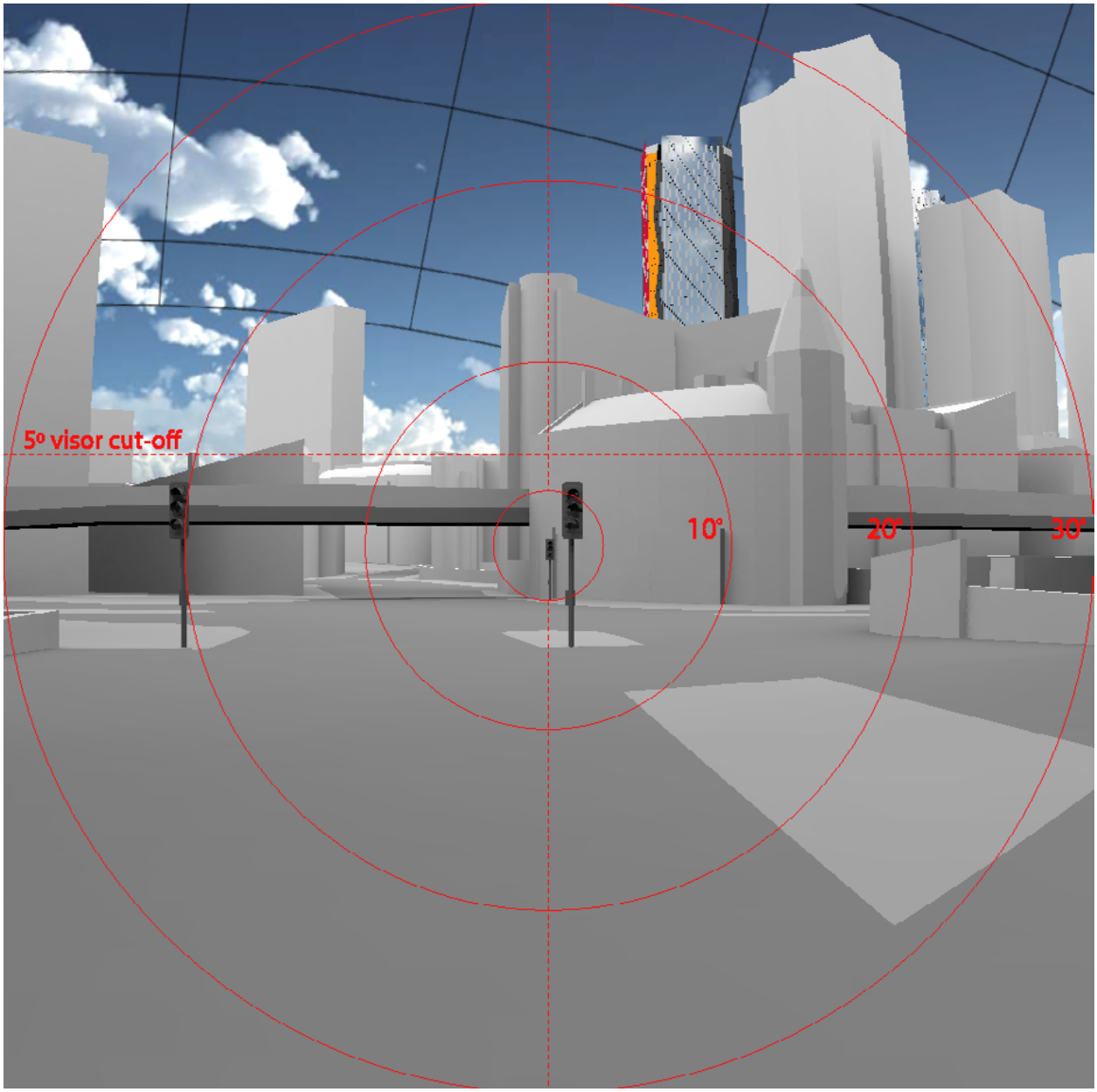
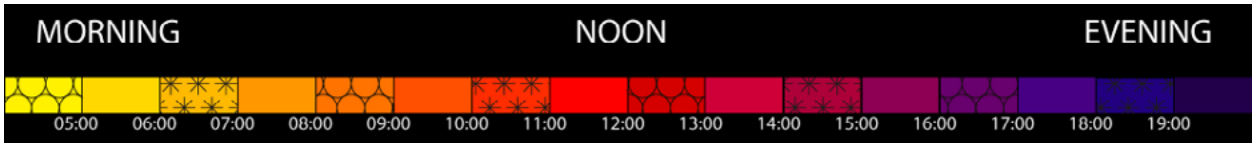


Fig. 42: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT ASB - ALBION STREET JUNCTION (WITH WHITWORTH STREET WEST) RIGHT LANE, LOOKING AT FAR TRAFFIC LIGHT

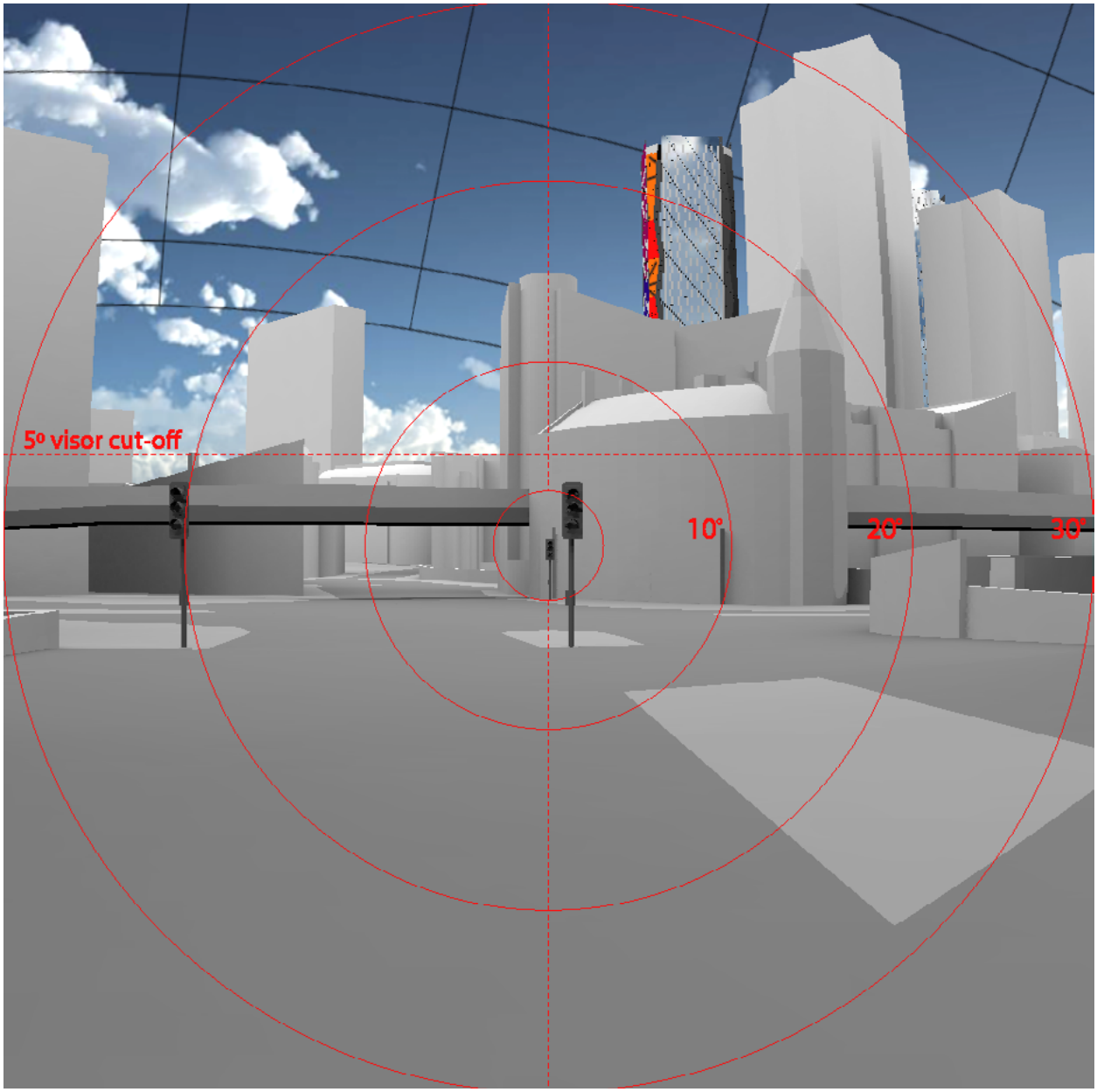


Fig. 43: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT ASC - ALBION STREET JUNCTION (WITH WHITWORTH STREET WEST) RIGHT LANE, LOOKING AT RIGHT TRAFFIC LIGHT

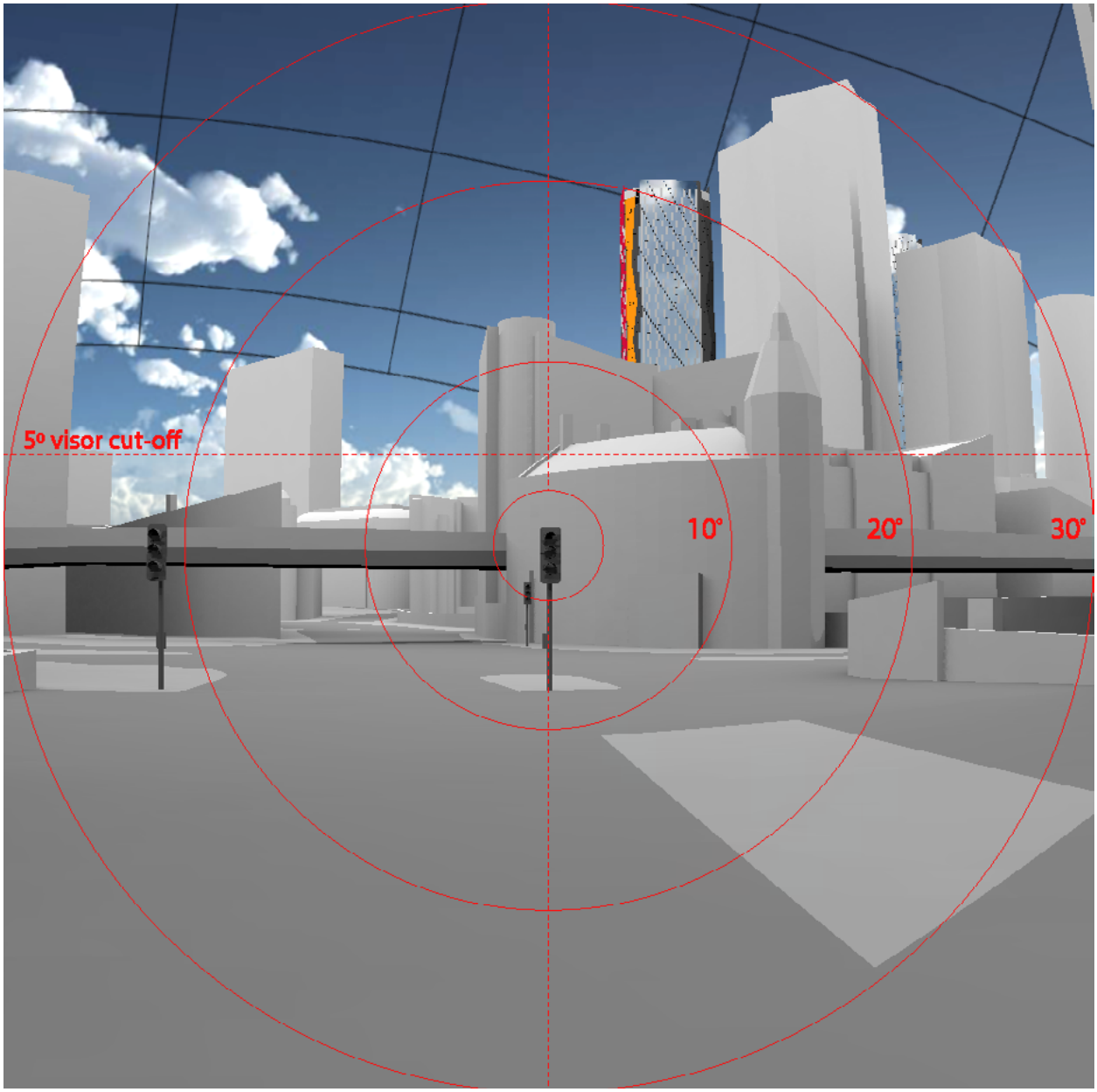
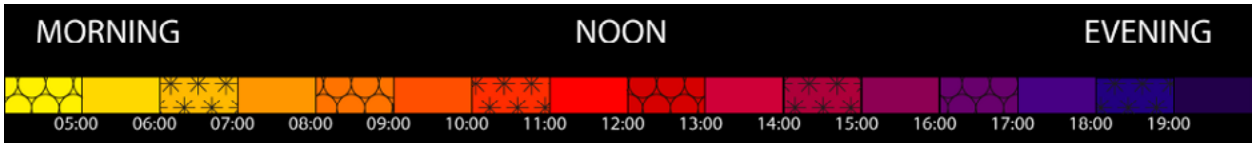


Fig. 44: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT ASC - ALBION STREET JUNCTION (WITH WHITWORTH STREET WEST) RIGHT LANE, LOOKING AT RIGHT TRAFFIC LIGHT

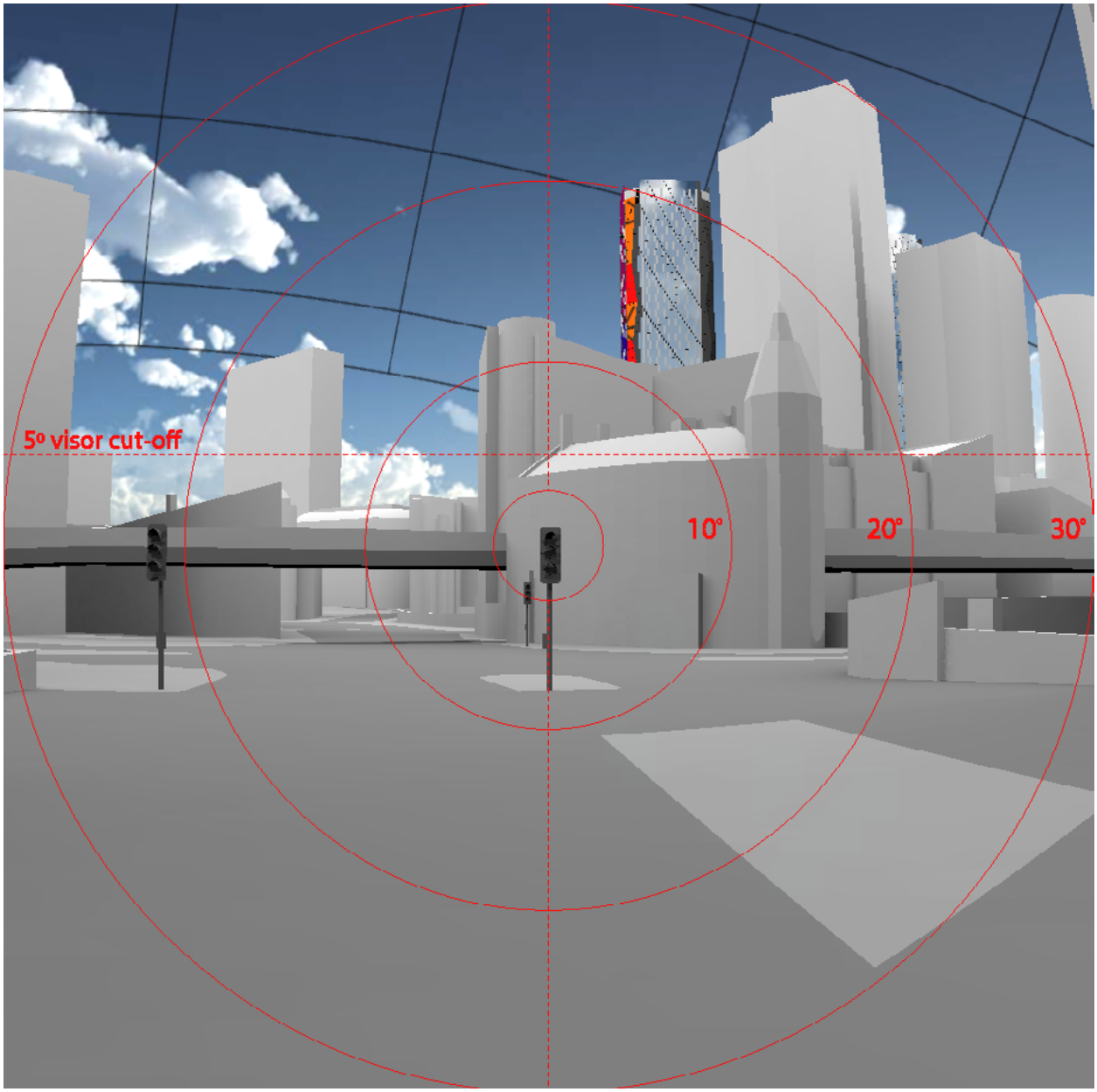


Fig. 45: Solar reflections



River Street Westbound Junction (with Medlock Street)



Fig. 46: Junction Location



Fig. 47: Junction

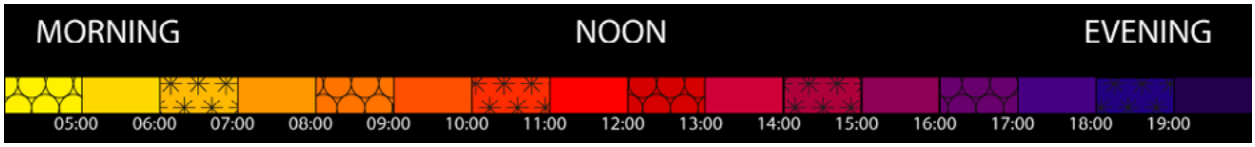


Fig. 48: Viewpoints

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT RS - RIVER STREET JUNCTION (WITH MEDLOCK STREET) LOOKING FORWARD



Fig. 49: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT RS - WILMOTT STREET JUNCTION (WITH MEDLOCK STREET) LOOKING FORWARD

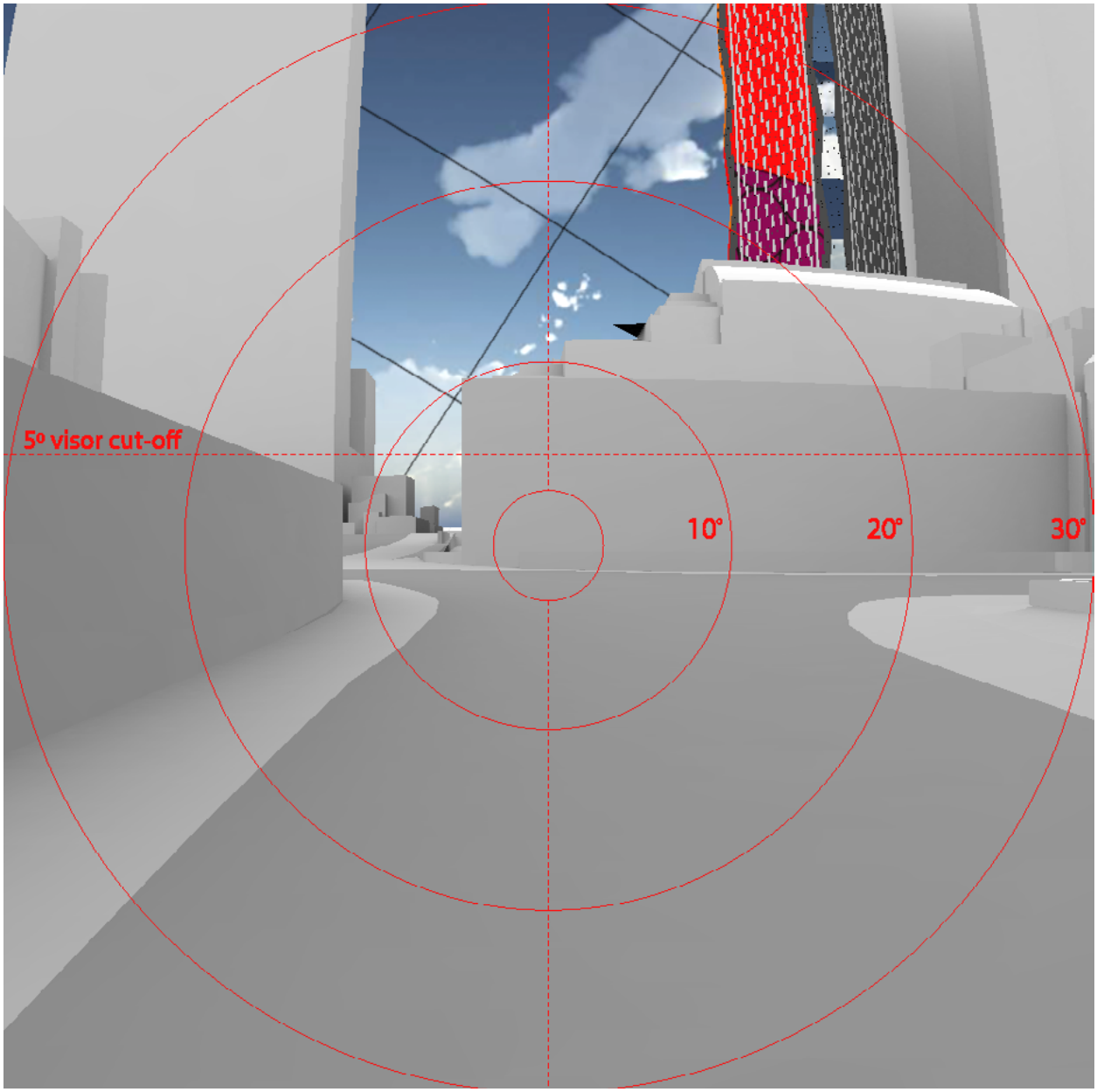


Fig. 50: Solar reflections



Garwood Street Northbound Junction (with Great Jackson Street)



Fig. 51: Junction Location



Fig. 52: Junction



Fig. 53: Viewpoints

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT GS - GARWOOD STREET JUNCTION (WITH GREAT JACKSON STREET) LOOKING FORWARD

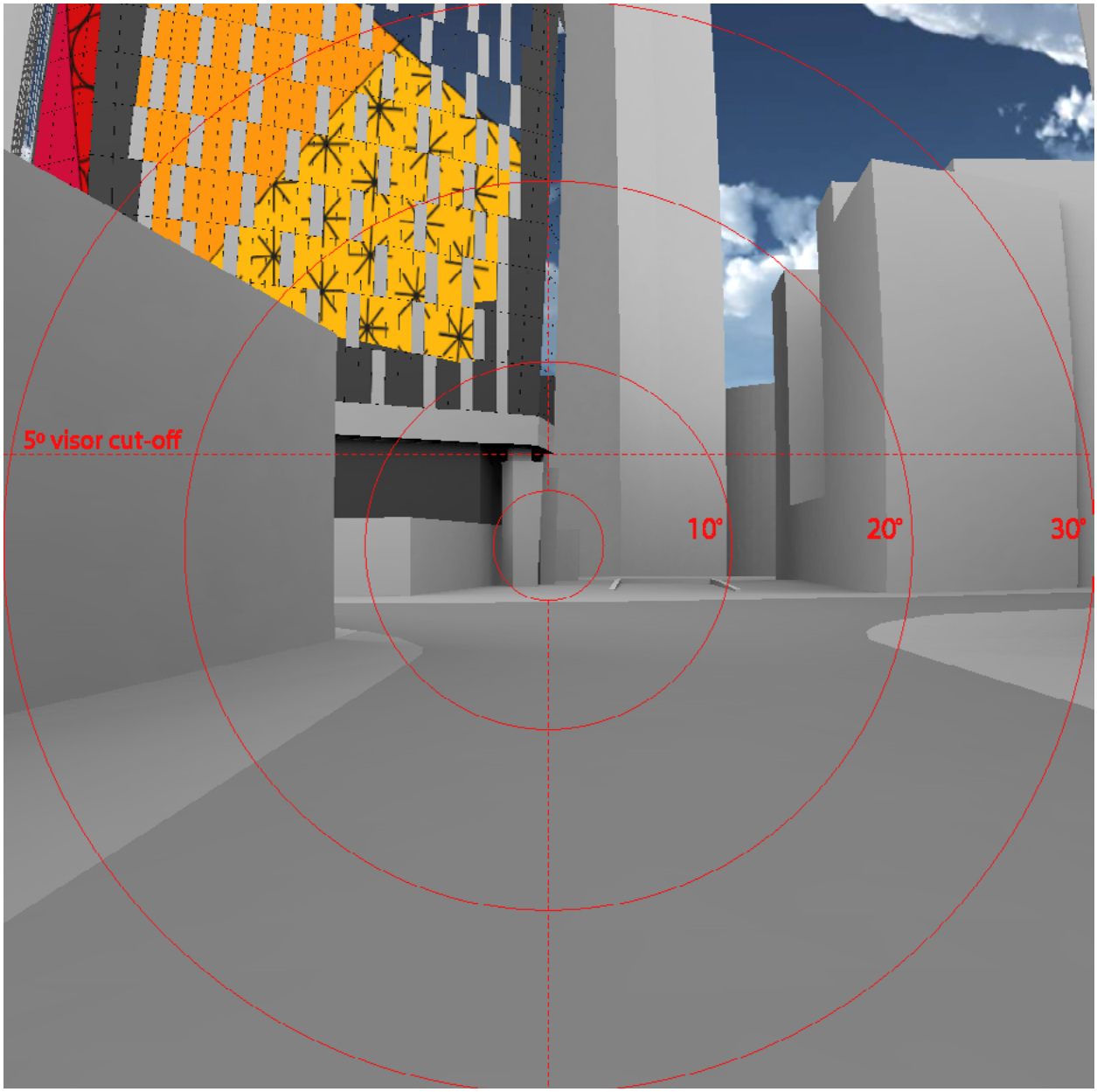
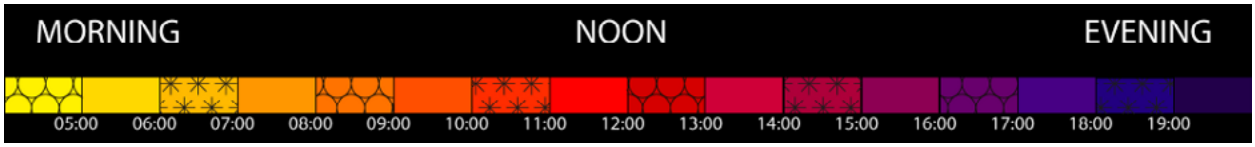


Fig. 54: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT GS - GARWOOD STREET JUNCTION (WITH GREAT JACKSON STREET) LOOKING FORWARD

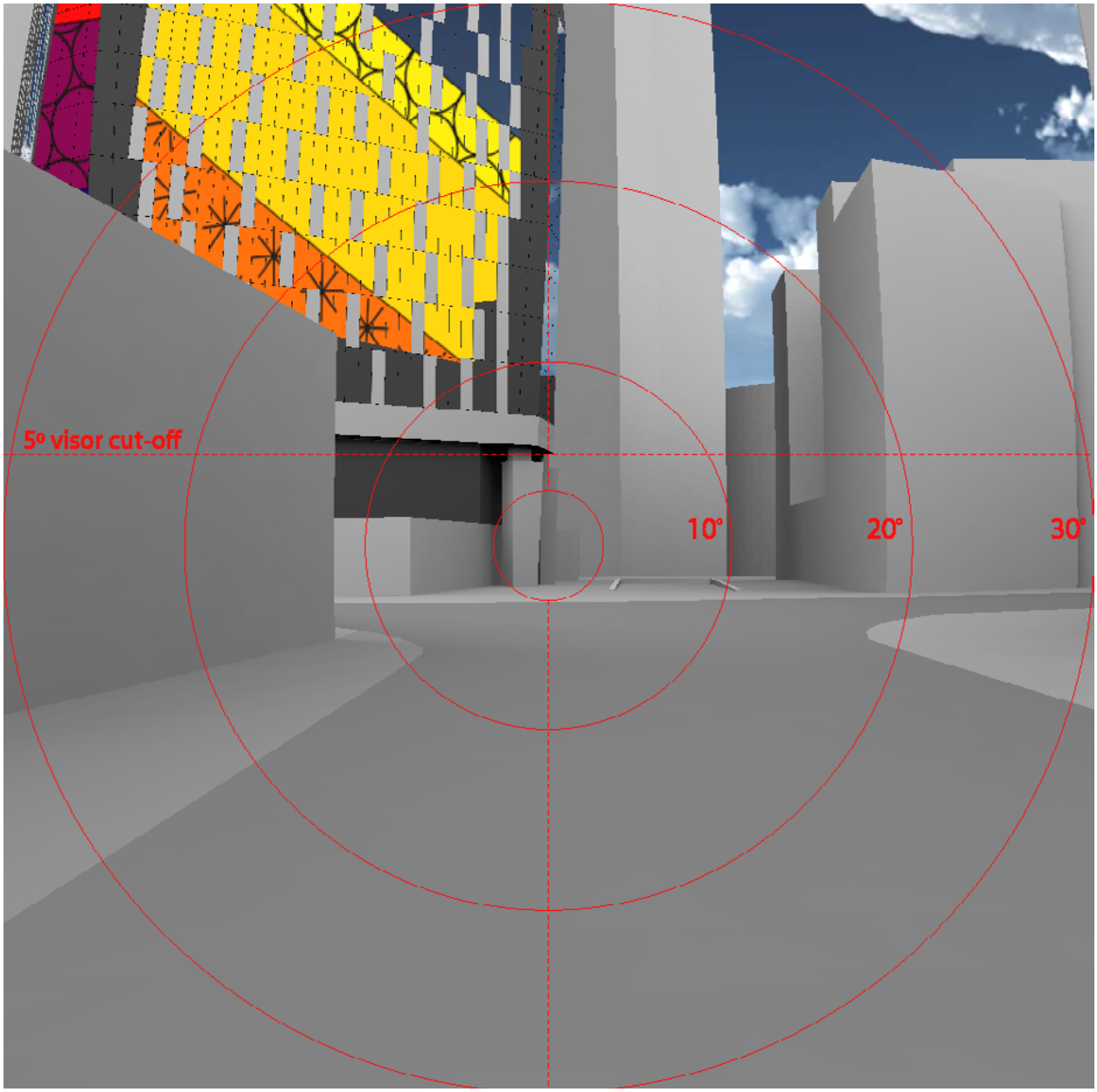


Fig. 55: Solar reflections



Melbourne Street Northbound Junction (with Great Jackson Street)



Fig. 56: Junction Location



Fig. 57: Junction



Fig. 58: Viewpoints

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MS1 - MELBOURNE STREET LOOKING FORWARD

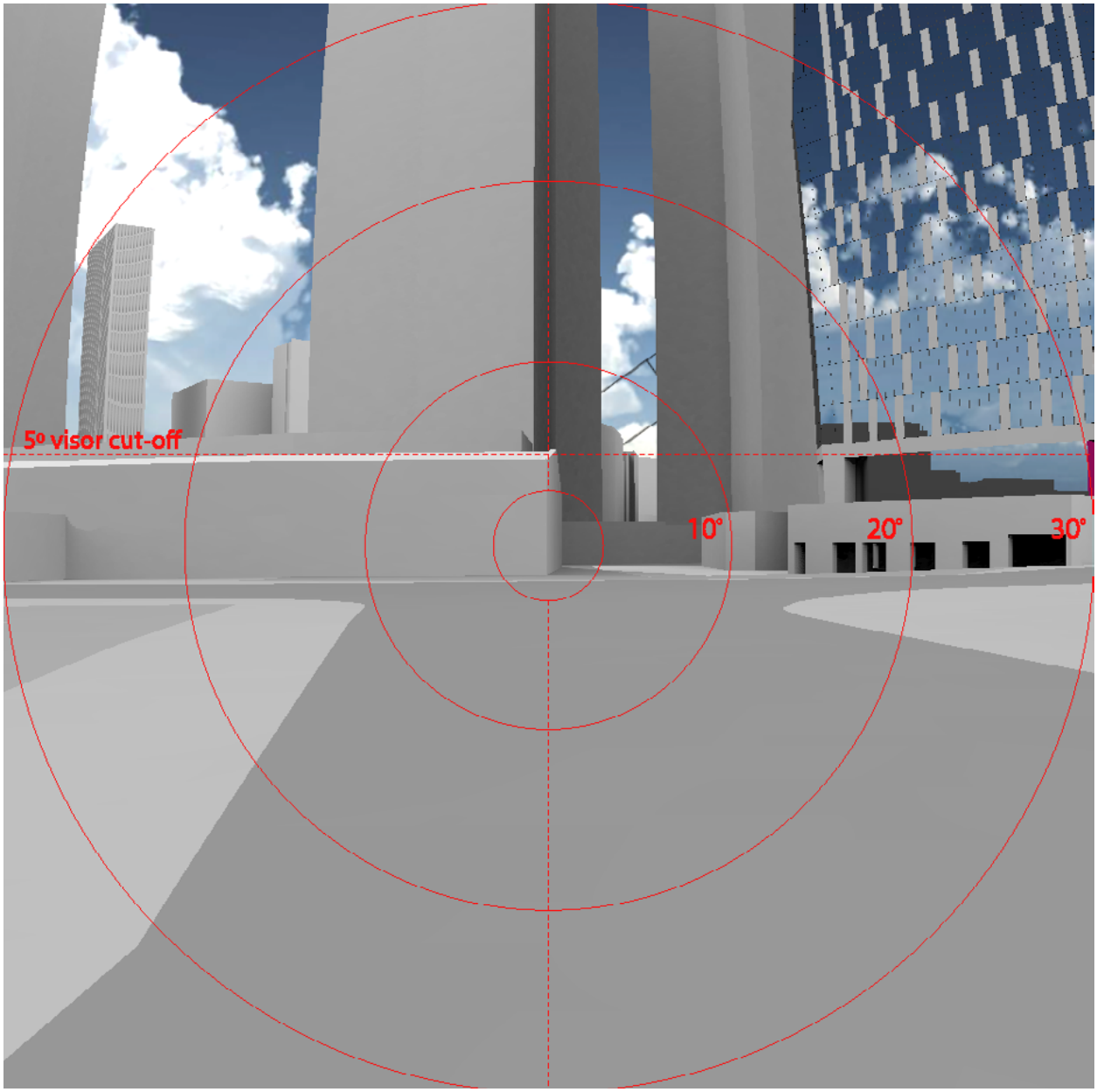
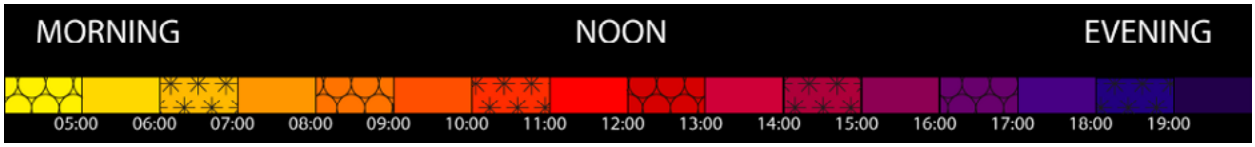


Fig. 59: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MS1 - MELBOURNE STREET
LOOKING FORWARD

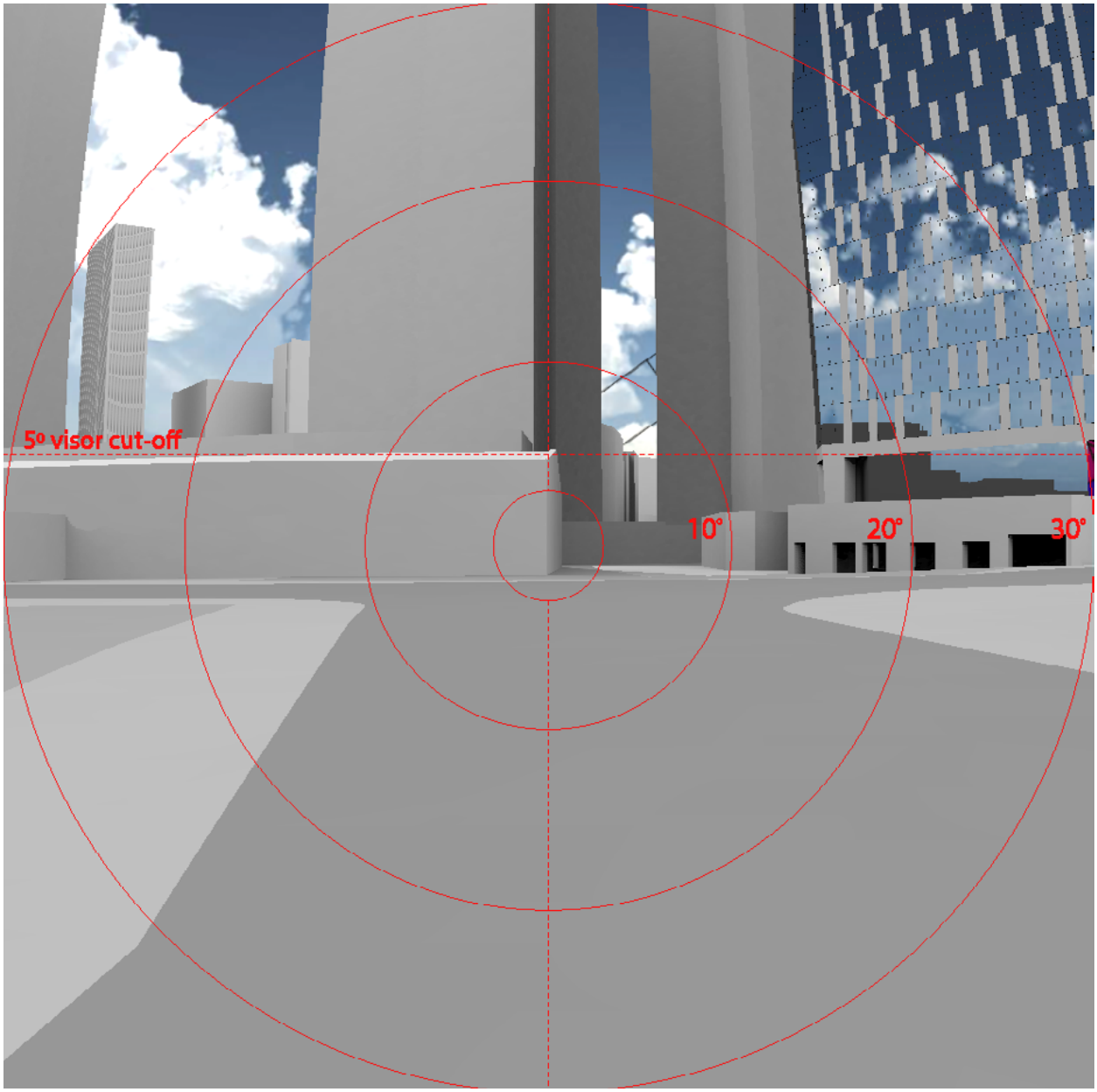


Fig. 60: Solar reflections



Deansgate Interchange Slip-road Eastbound (with Mancunian Way/Ring Road)



Fig. 61: Junction Location



Fig. 62: Junction



Fig. 63: Viewpoint

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT DGI - DEANSGATE INTERCHANGE SLIP-ROAD (WITH MANCUNIAN WAY/RING ROAD) LOOKING FORWARD

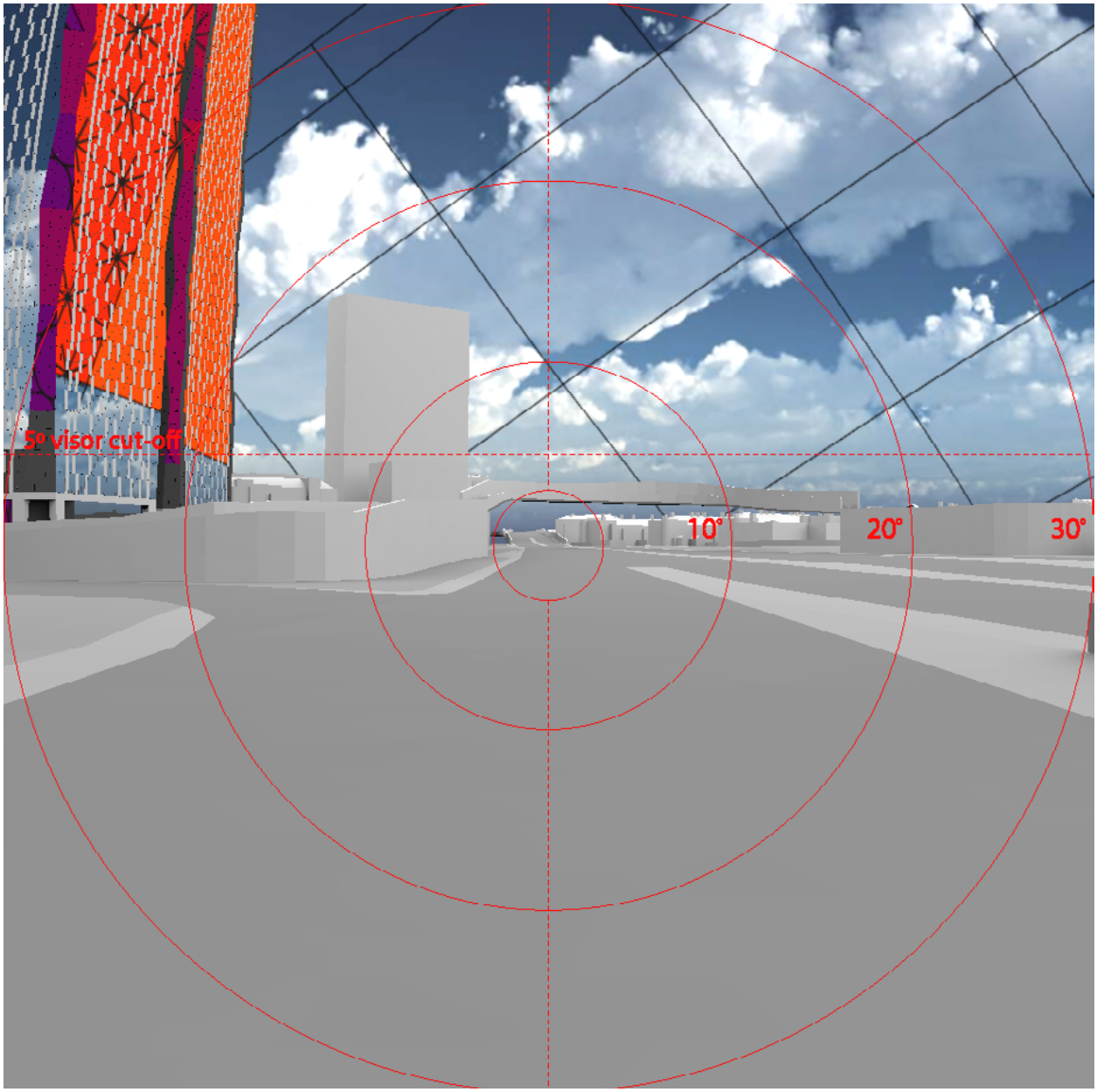
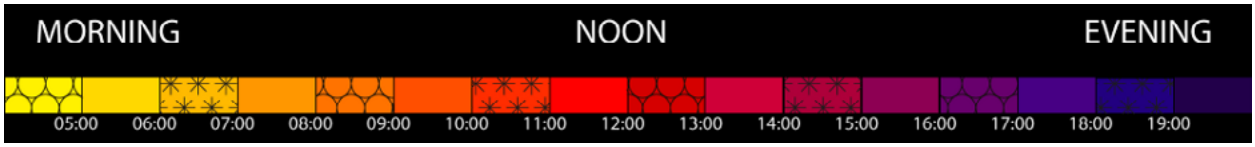


Fig. 64: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT DGI - DEANSGATE INTERCHANGE SLIP-ROAD (WITH MANCUNIAN WAY/RING ROAD) LOOKING FORWARD

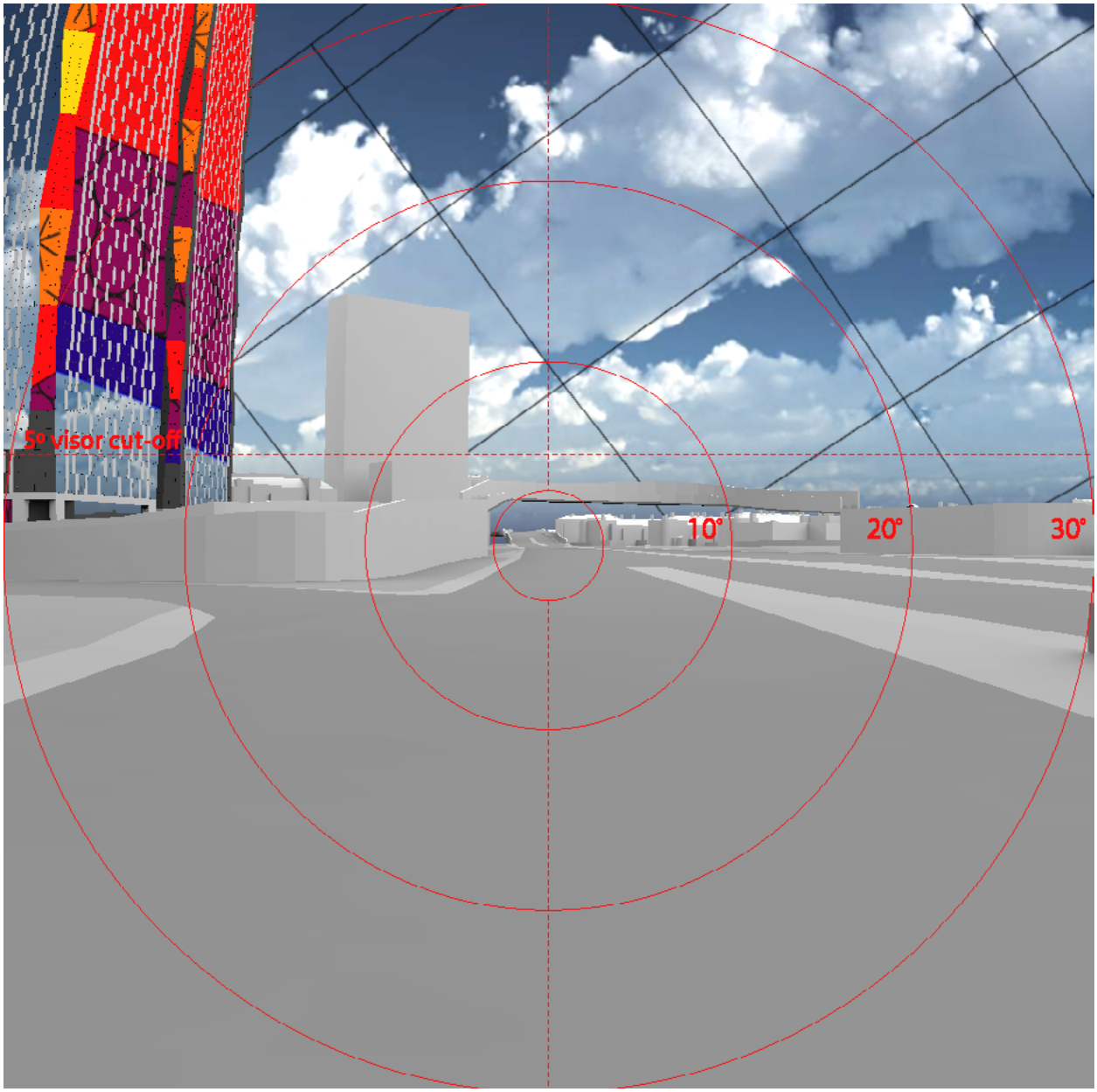


Fig. 65: Solar reflections



Mancunian Way/Ring Road Eastbound (emerging from benath Deansgate Overpass)



Fig. 66: Junction Location



Fig. 67: Viewpoint

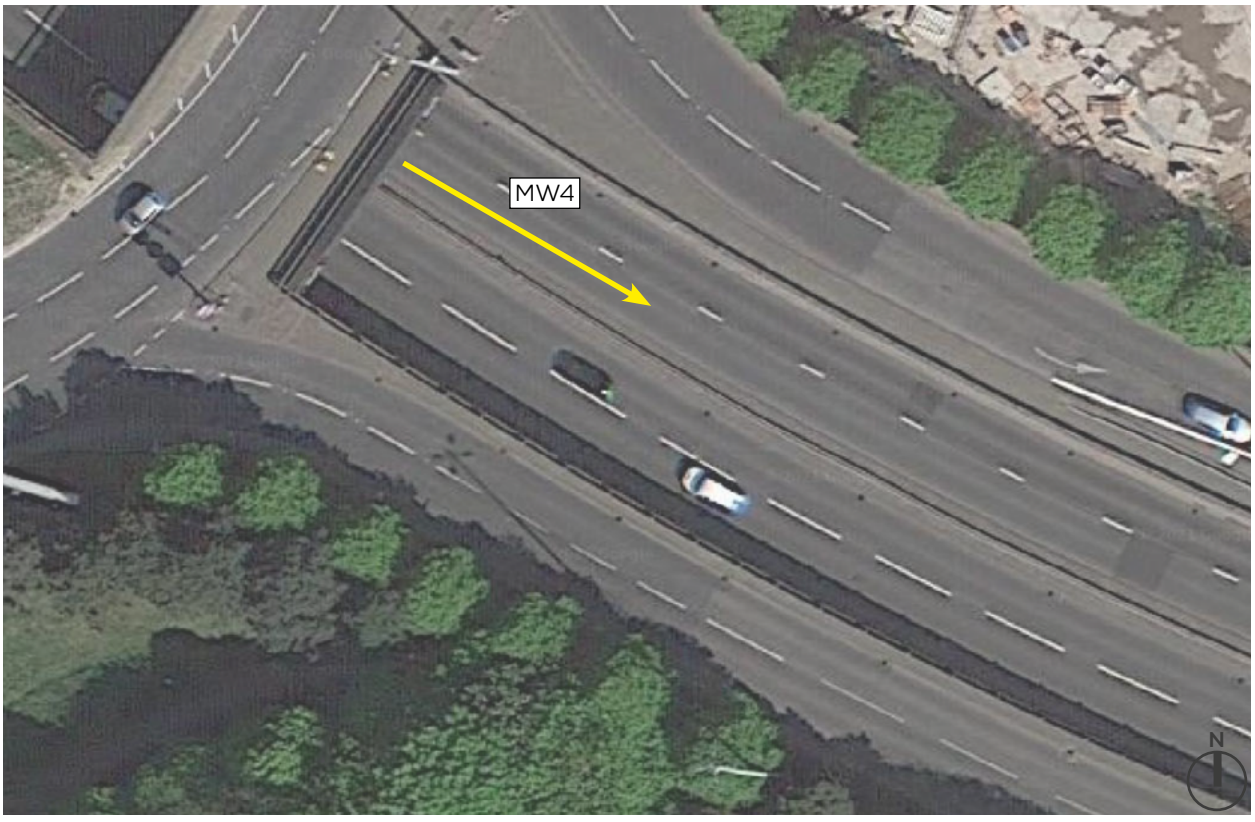


Fig. 68: Viewpoint

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MW4 - MANCUNIAN WAY 4
RIGHT LANE, LOOKING FORWARD

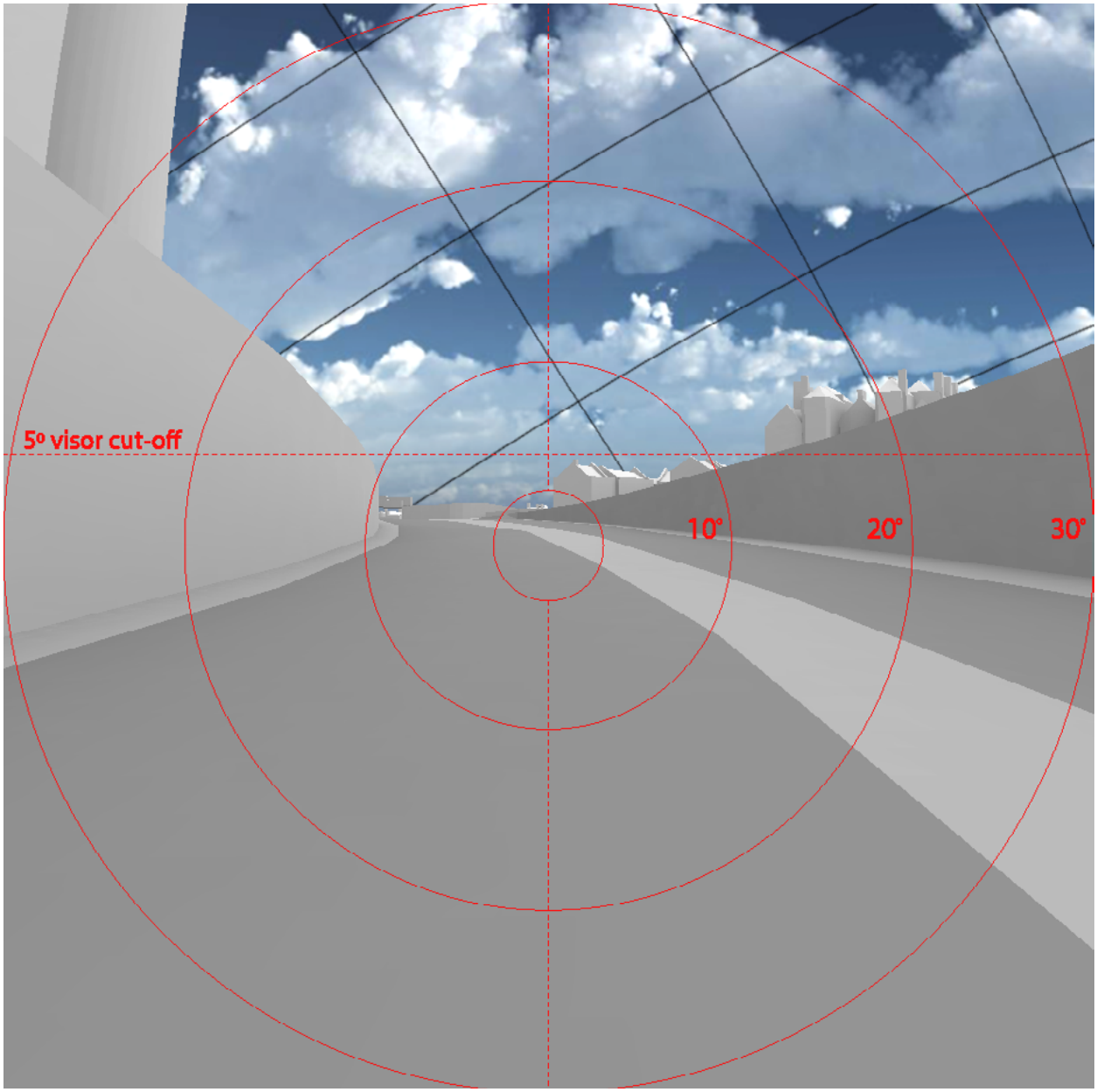
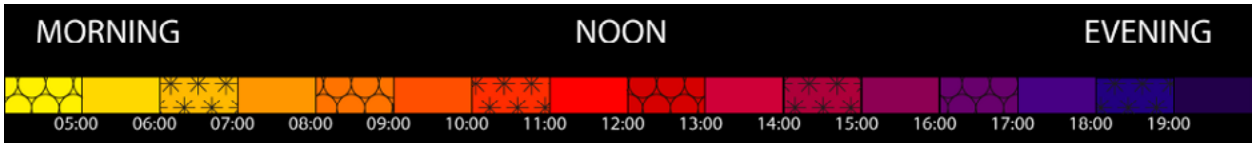


Fig. 69: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MW4 - MANCUNIAN WAY 4
RIGHT LANE, LOOKING FORWARD

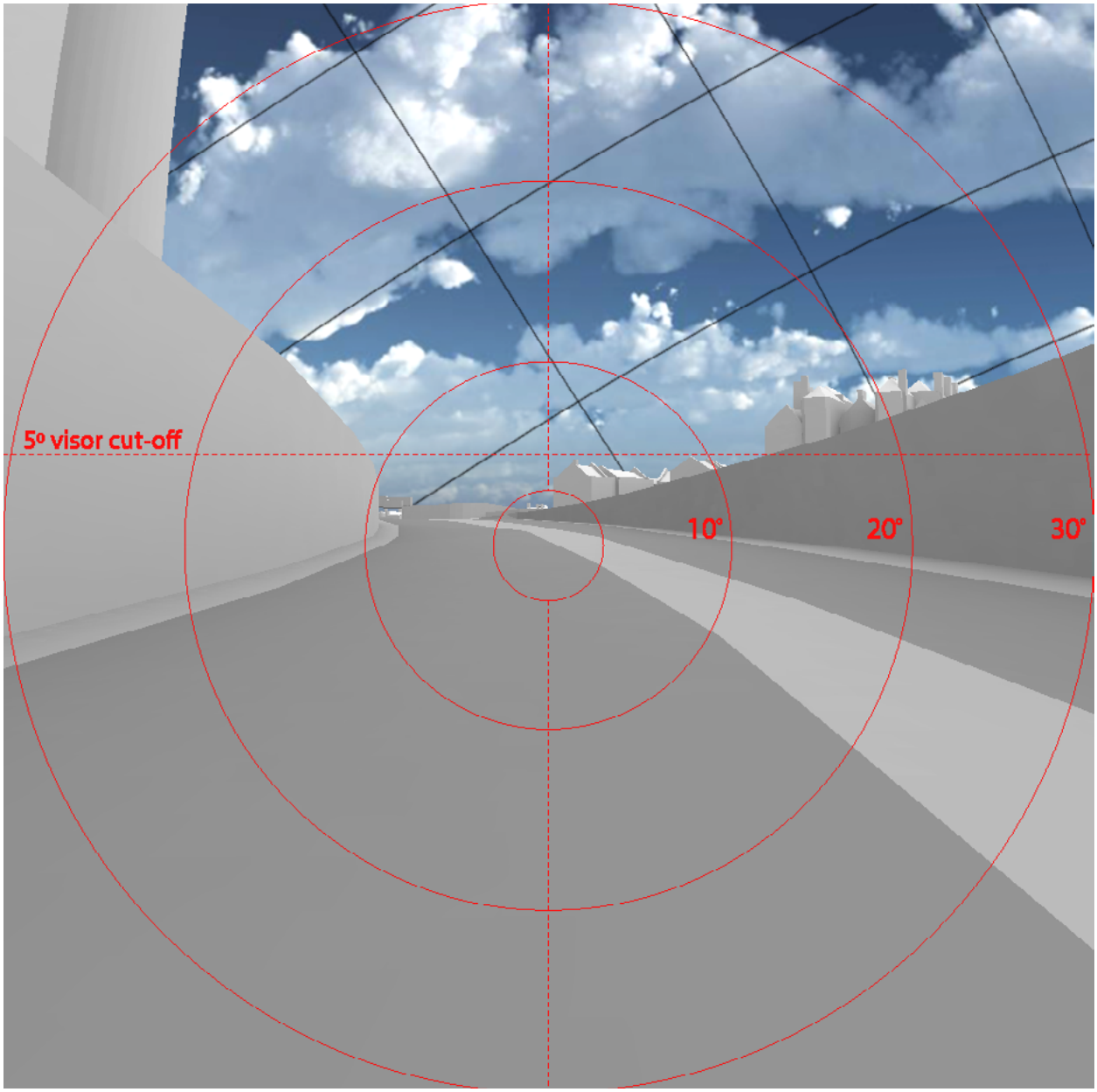


Fig. 70: Solar reflections



Mancunian Way/Ring Road Eastbound (approaching merging traffic from Deansgate Interchange Slip-road)





Fig. 71: Viewpoint



Fig. 72: Viewpoint

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MW5 - MANCUNIAN WAY 5
LEFT LANE, LOOKING FORWARD

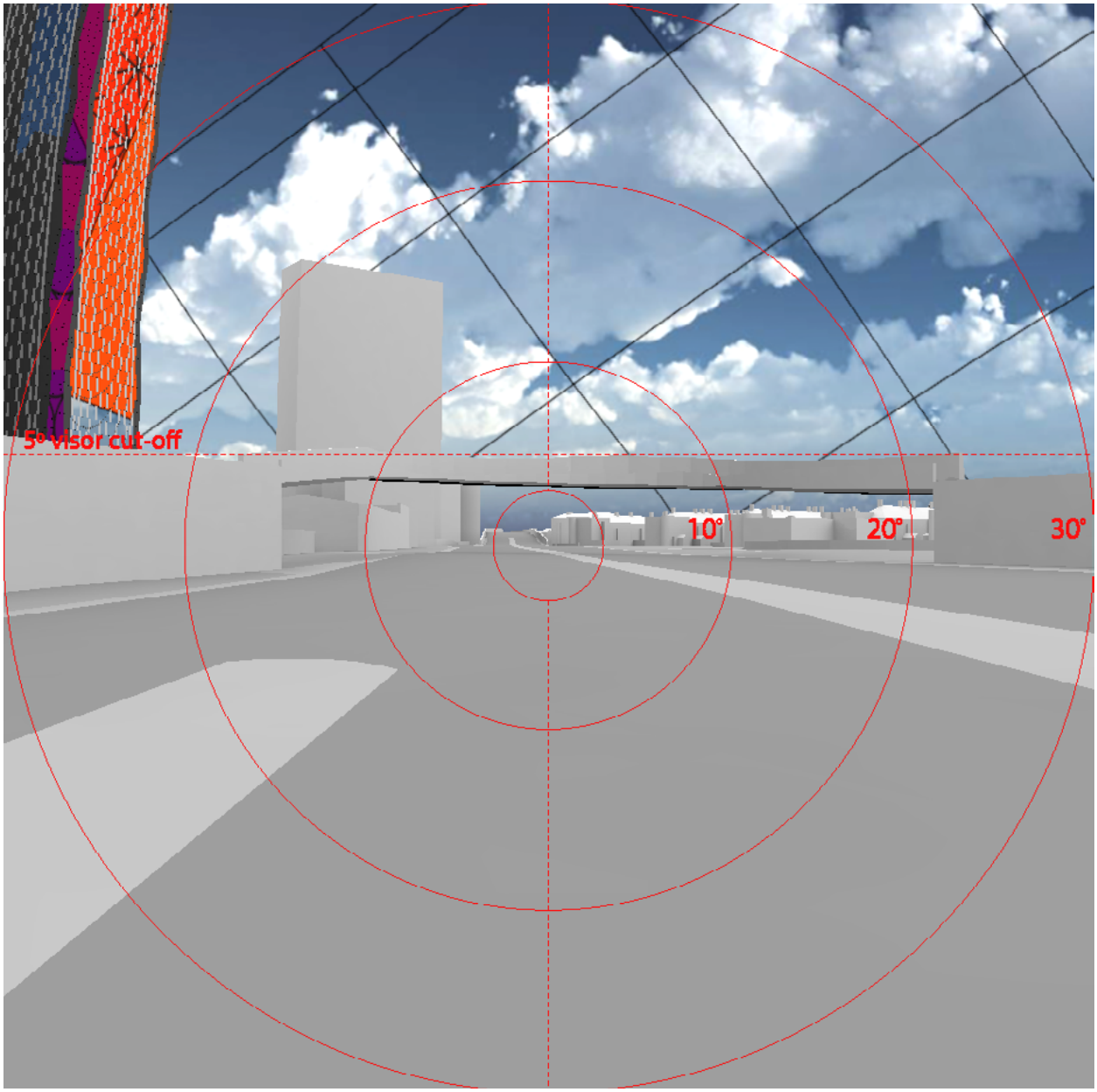
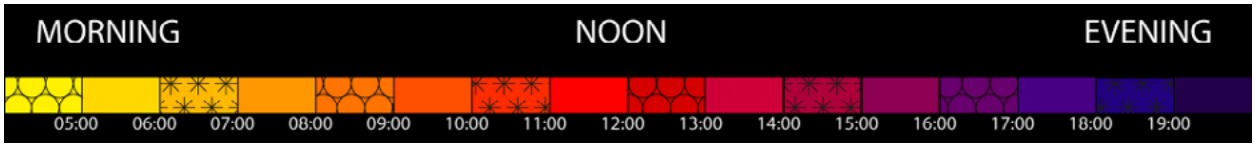


Fig. 73: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MW5 - MANCUNIAN WAY 5 LEFT LANE, LOOKING FORWARD

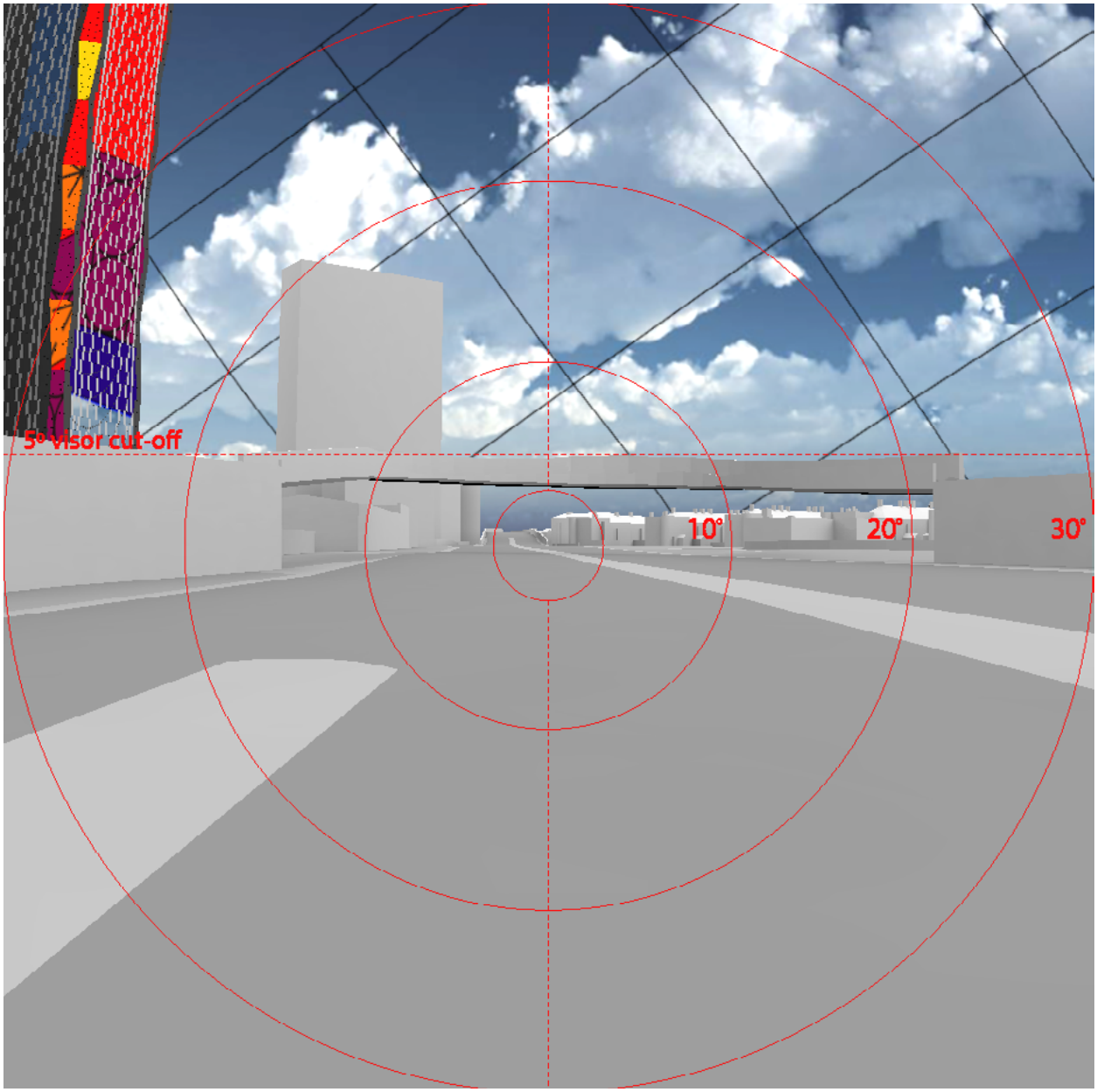


Fig. 74: Solar reflections



Mancunian Way/Ring Road Eastbound (approaching the Medlock Street off-ramp)





Fig. 75: Viewpoint

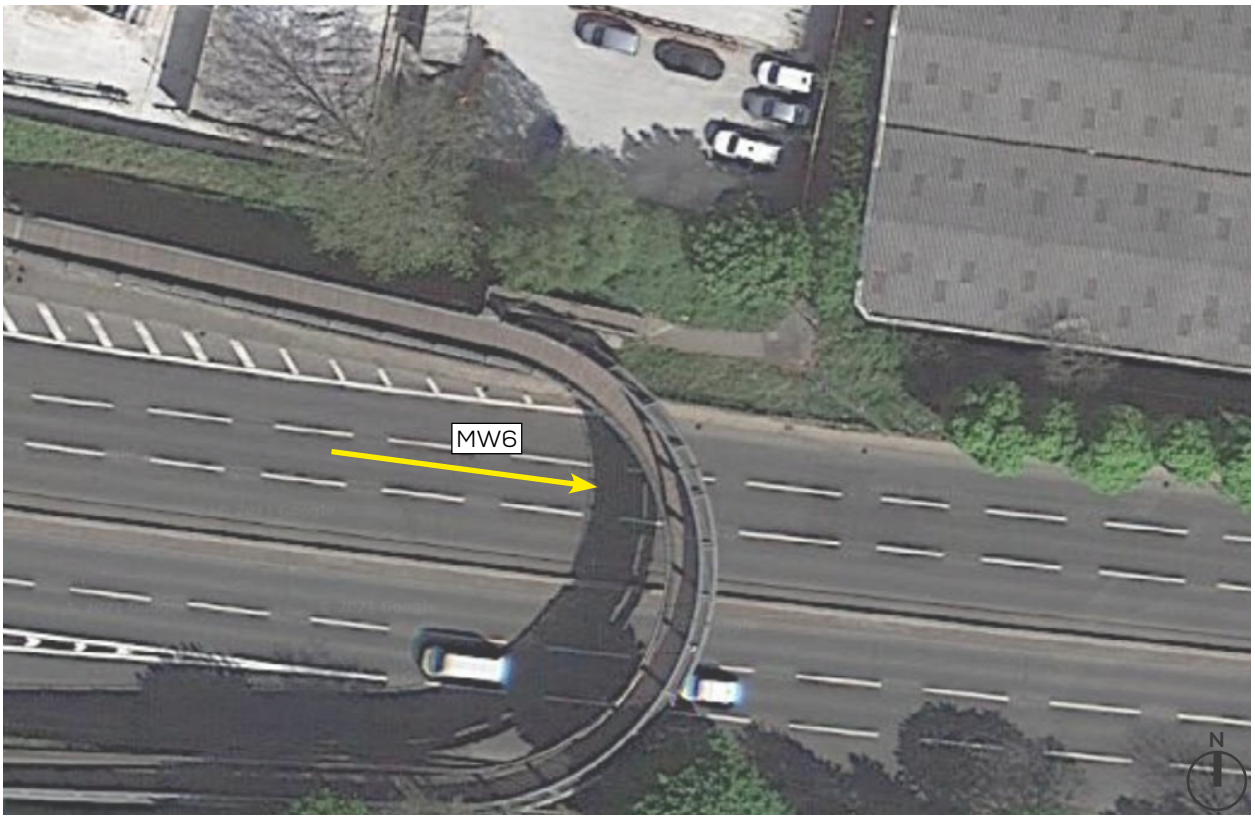


Fig. 76: Viewpoint

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MW6 - MANCUNIAN WAY 6 CENTRAL LANE, LOOKING FORWARD

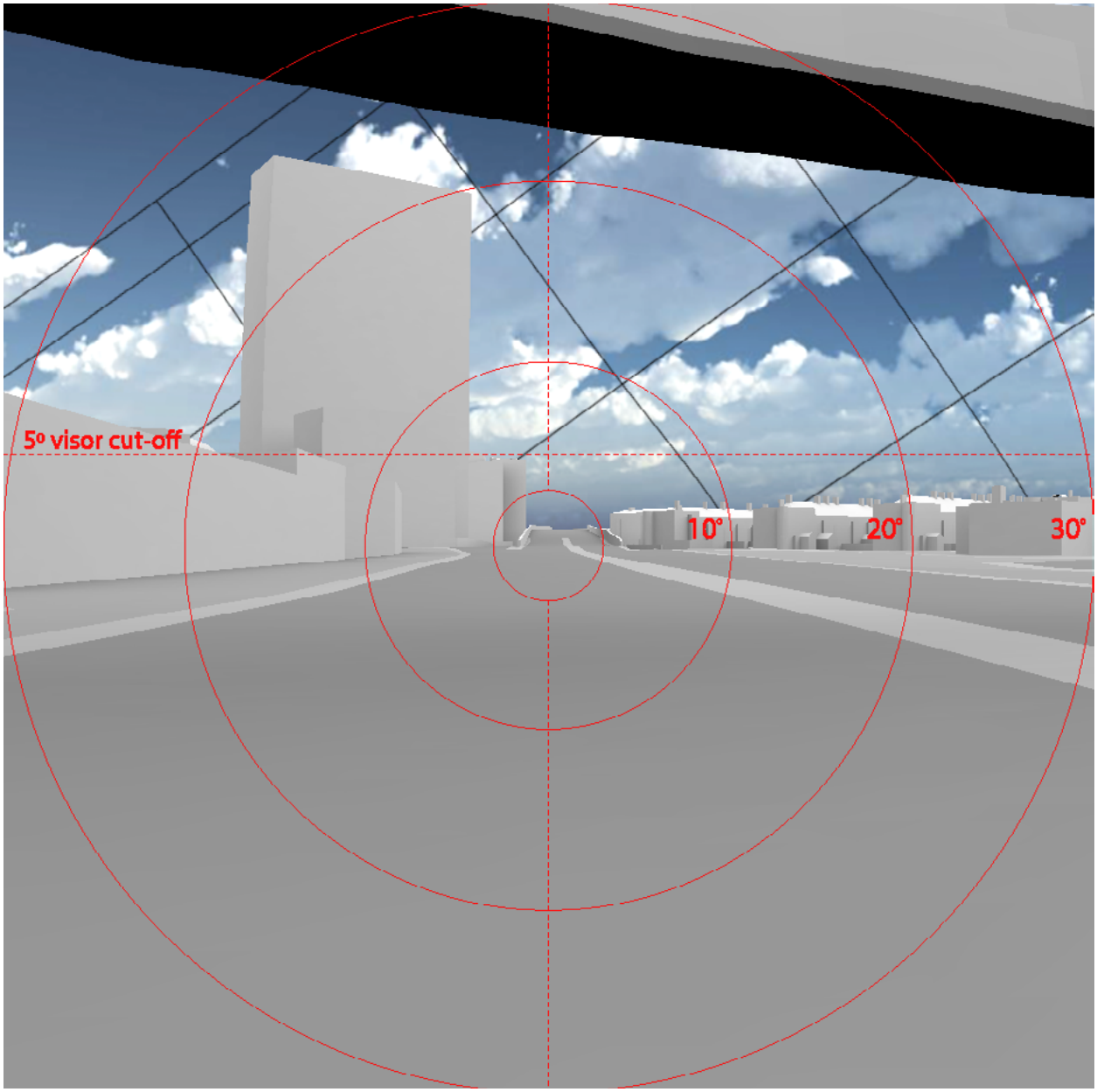
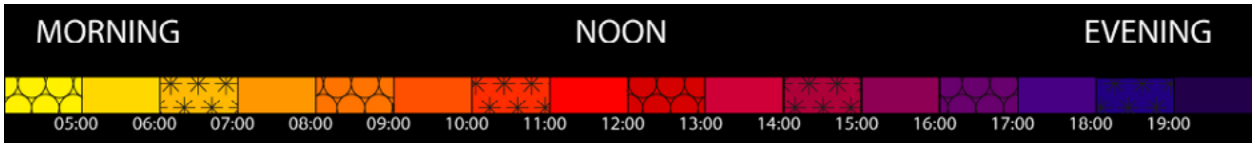


Fig. 77: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MW6 - MANCUNIAN WAY 6
CENTRAL LANE, LOOKING FORWARD

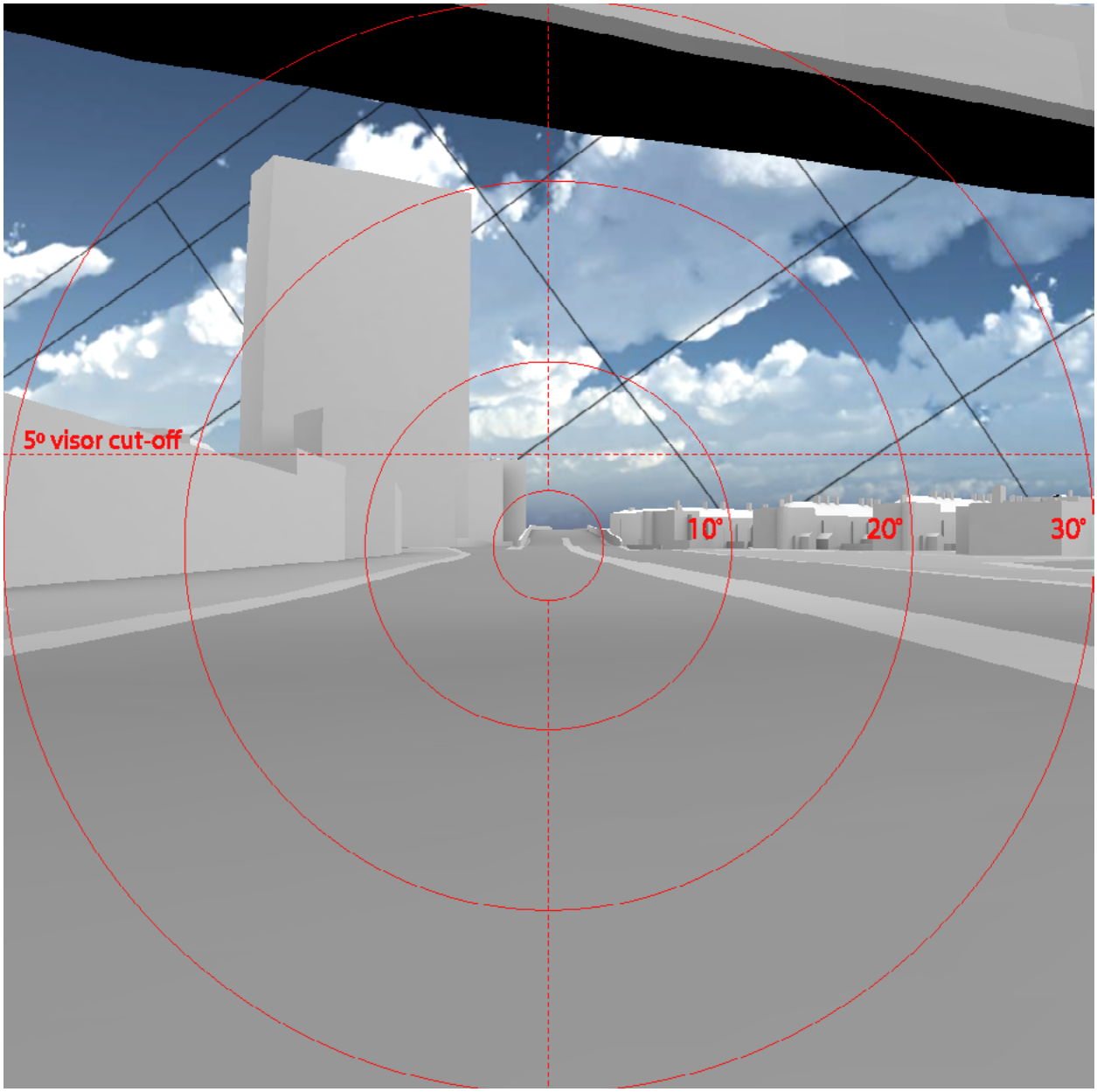


Fig. 78: Solar reflections



Mancunian Way/Ring Road Westbound (travelling over Medlock Street Junction)





Fig. 79: Viewpoint



Fig. 80: Viewpoint

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MW1 - MANCUNIAN WAY 1
RIGHT LANE, LOOKING FORWARD

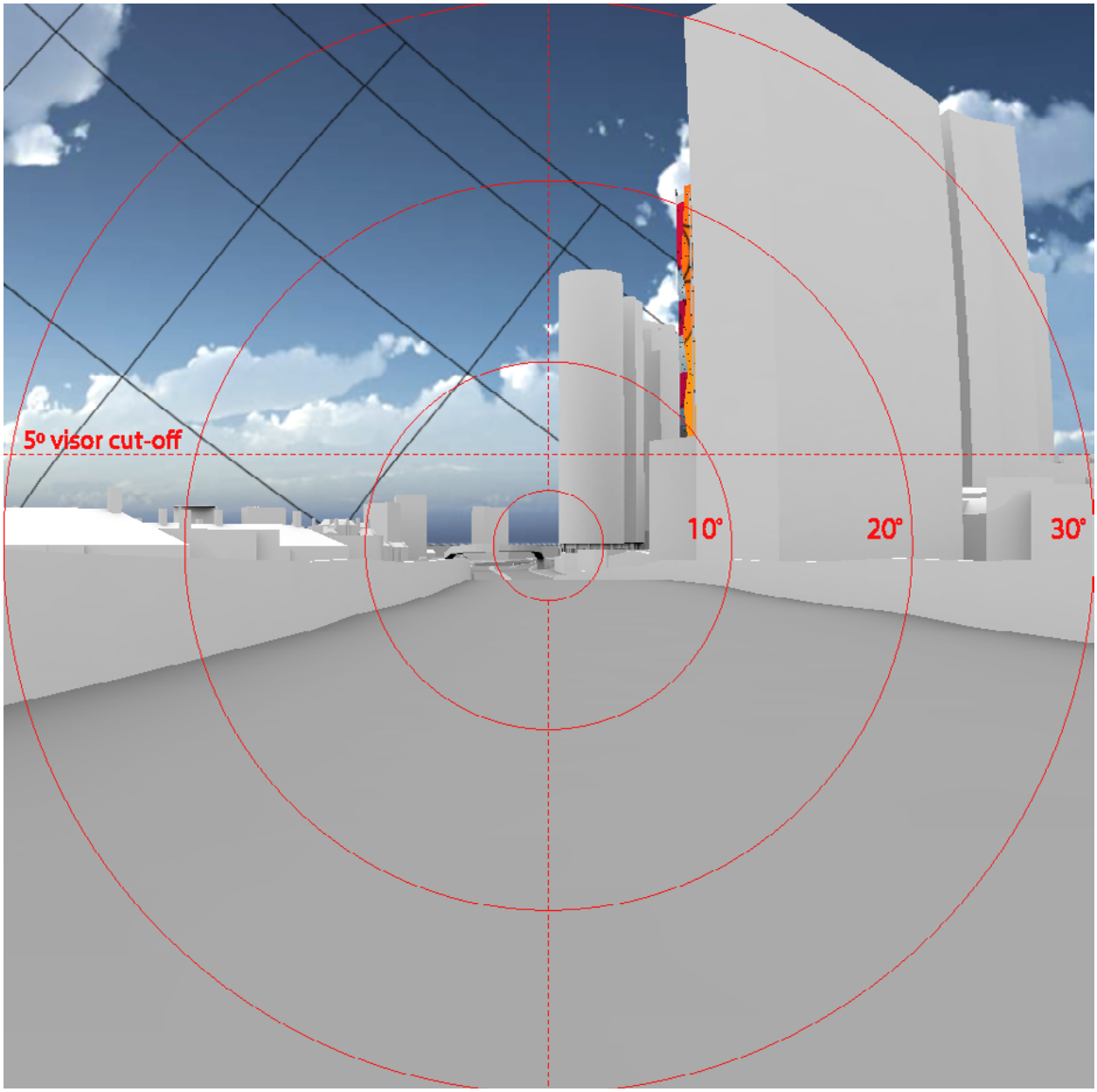
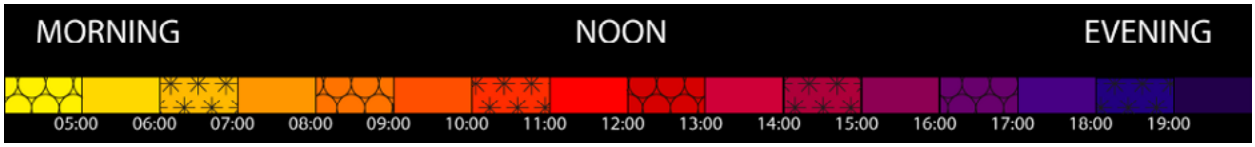


Fig. 81: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MW1 - MANCUNIAN WAY 1
RIGHT LANE, LOOKING FORWARD

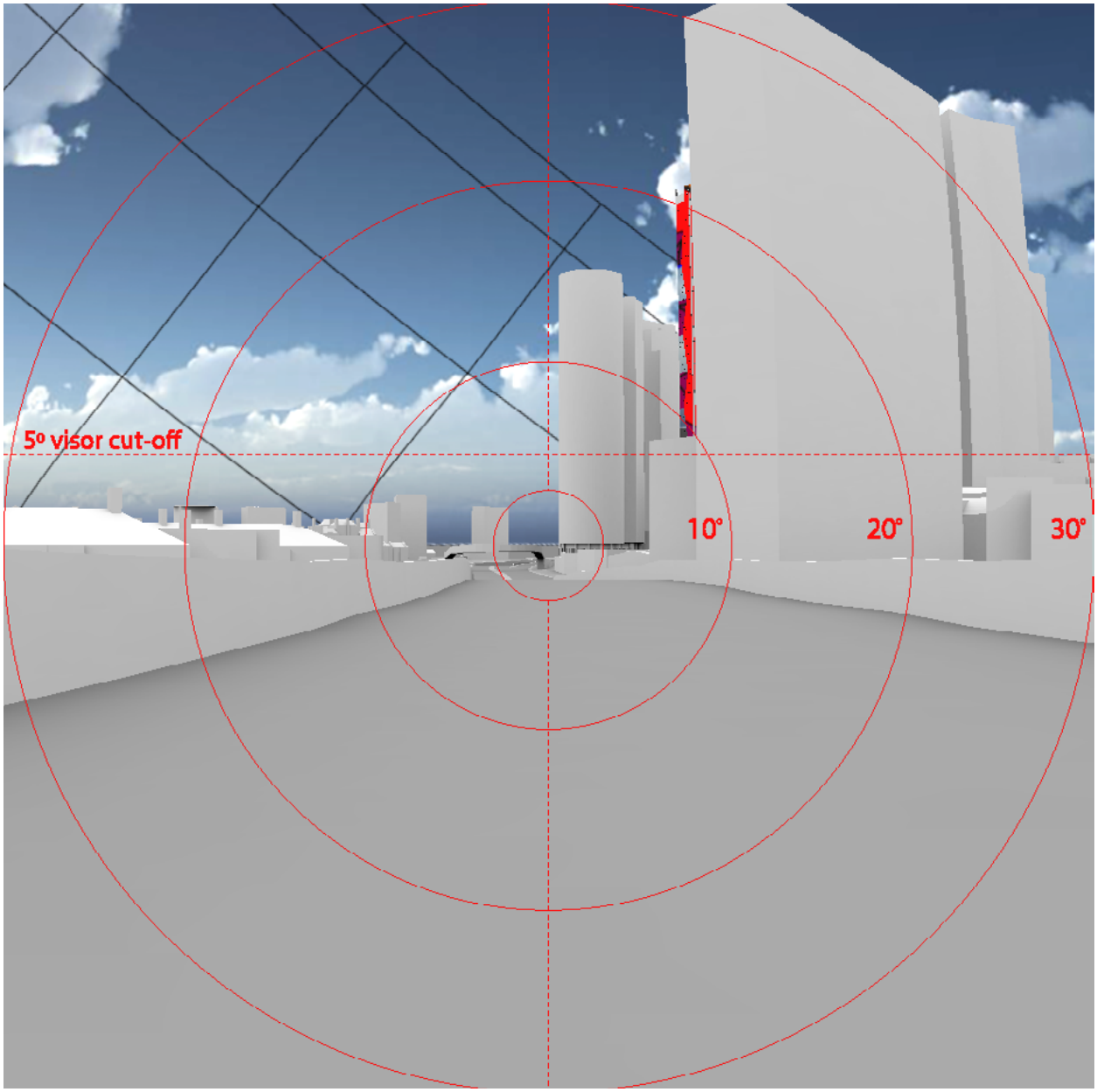


Fig. 82: Solar reflections



Mancunian Way/Ring Road Westbound (approaching merging traffic from Medlock Street Junction Slip-road)





Fig. 83: Viewpoint



Fig. 84: Viewpoint

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MW2 - MANCUNIAN WAY 2
RIGHT LANE, LOOKING FORWARD

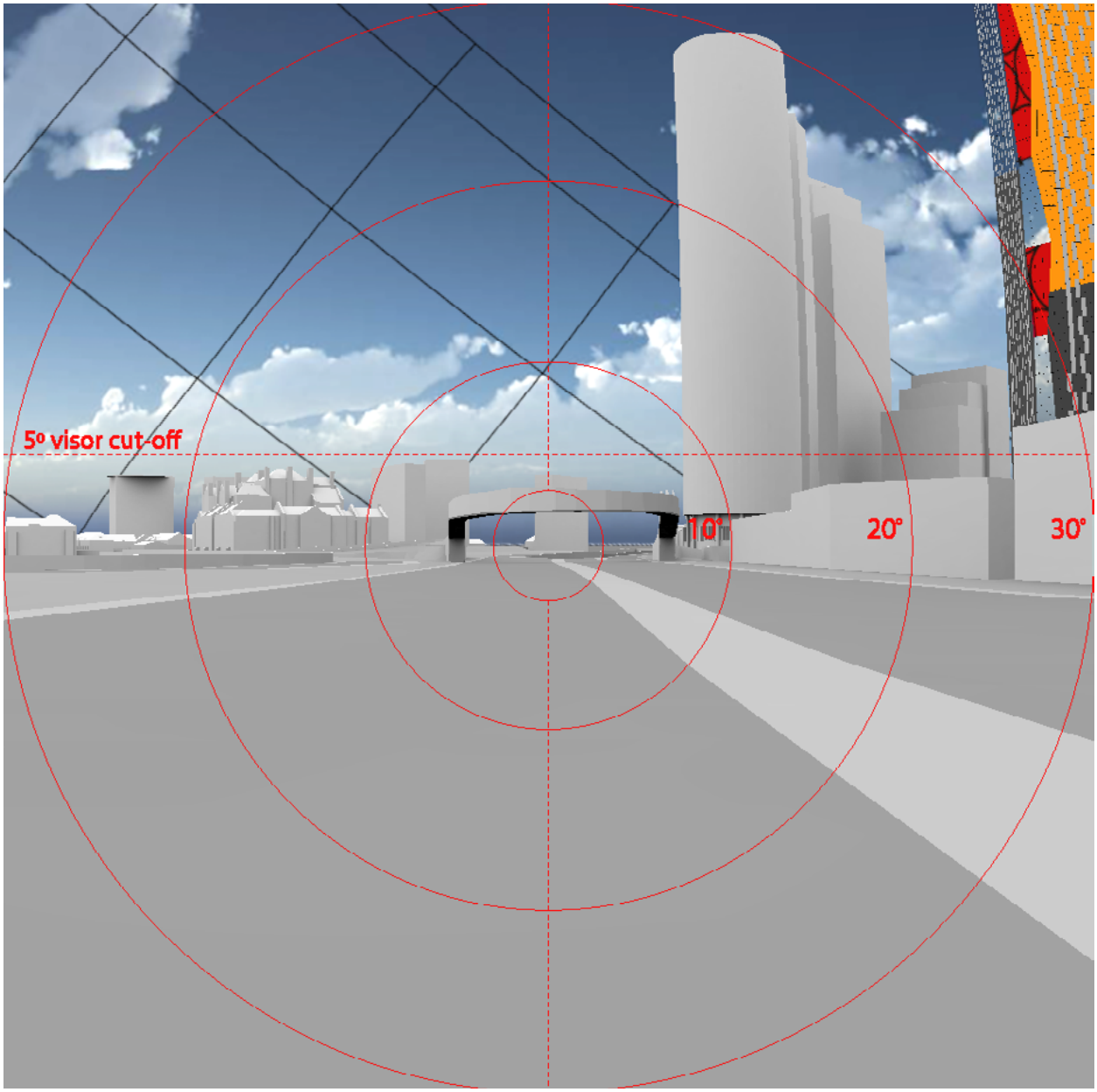
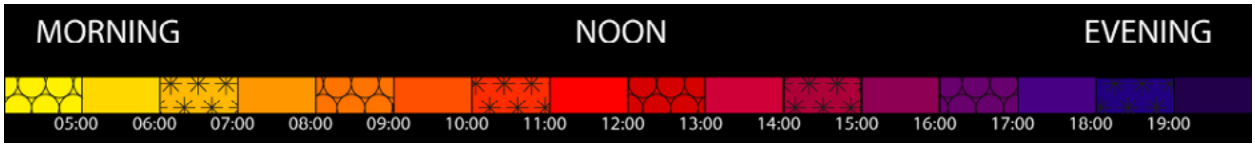


Fig. 85: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MW2 - MANCUNIAN WAY 2 RIGHT LANE, LOOKING FORWARD

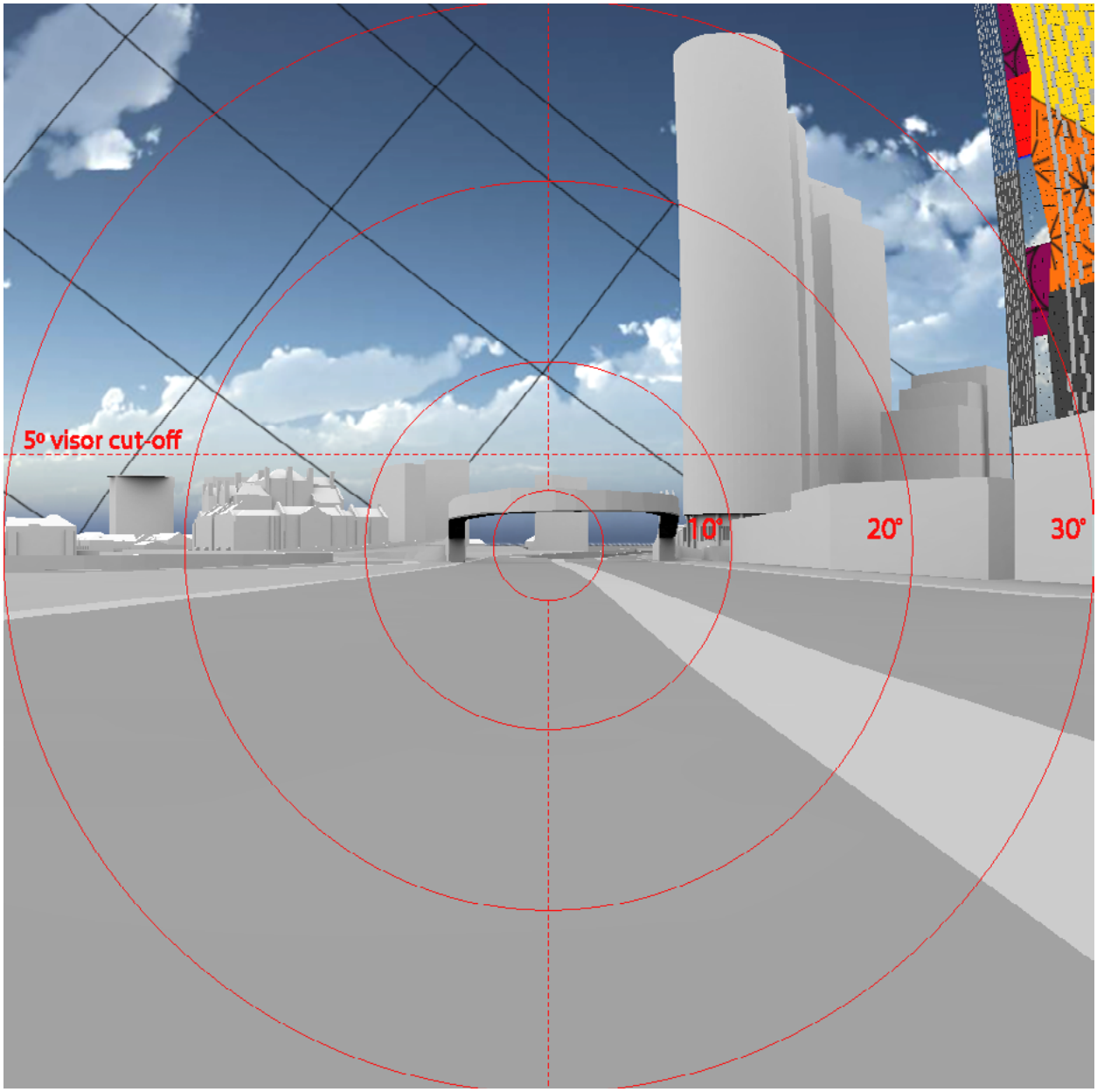


Fig. 86: Solar reflections



Mancunian Way/Ring Road Westbound (approaching the Deansgate Interchange off-ramp)





Fig. 87: Viewpoint



Fig. 88: Viewpoint Location

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MW3 - MANCUNIAN WAY 3 RIGHT LANE, LOOKING FORWARD

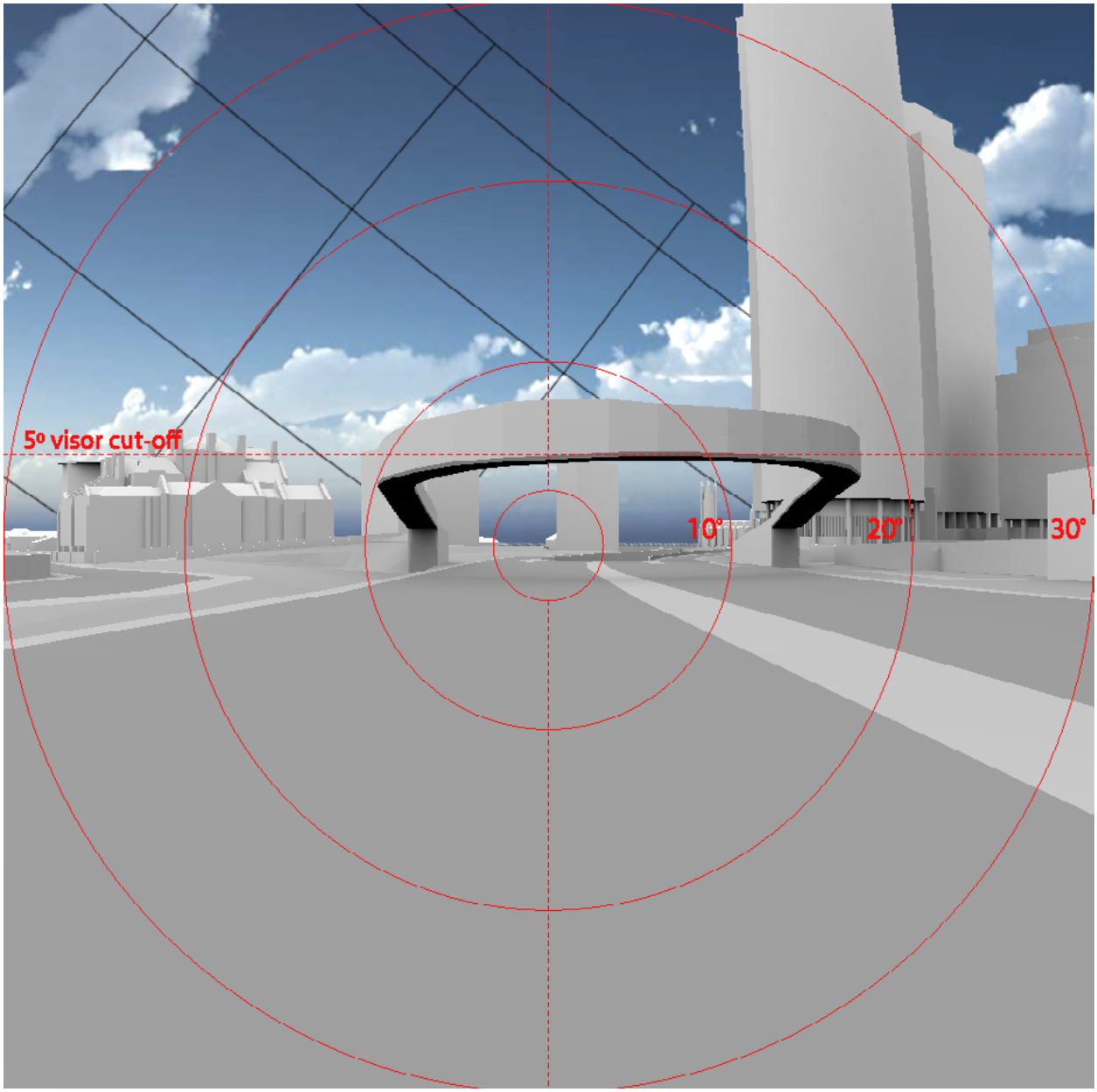
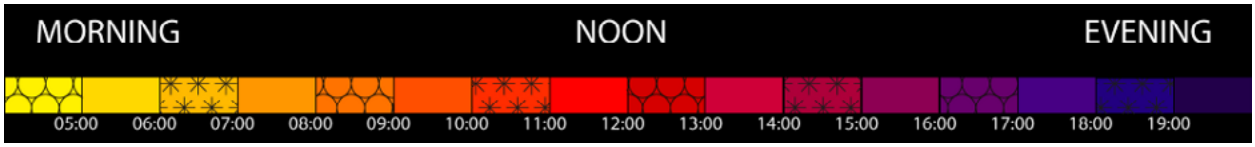


Fig. 89: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MW3 - MANCUNIAN WAY 3
RIGHT LANE, LOOKING FORWARD

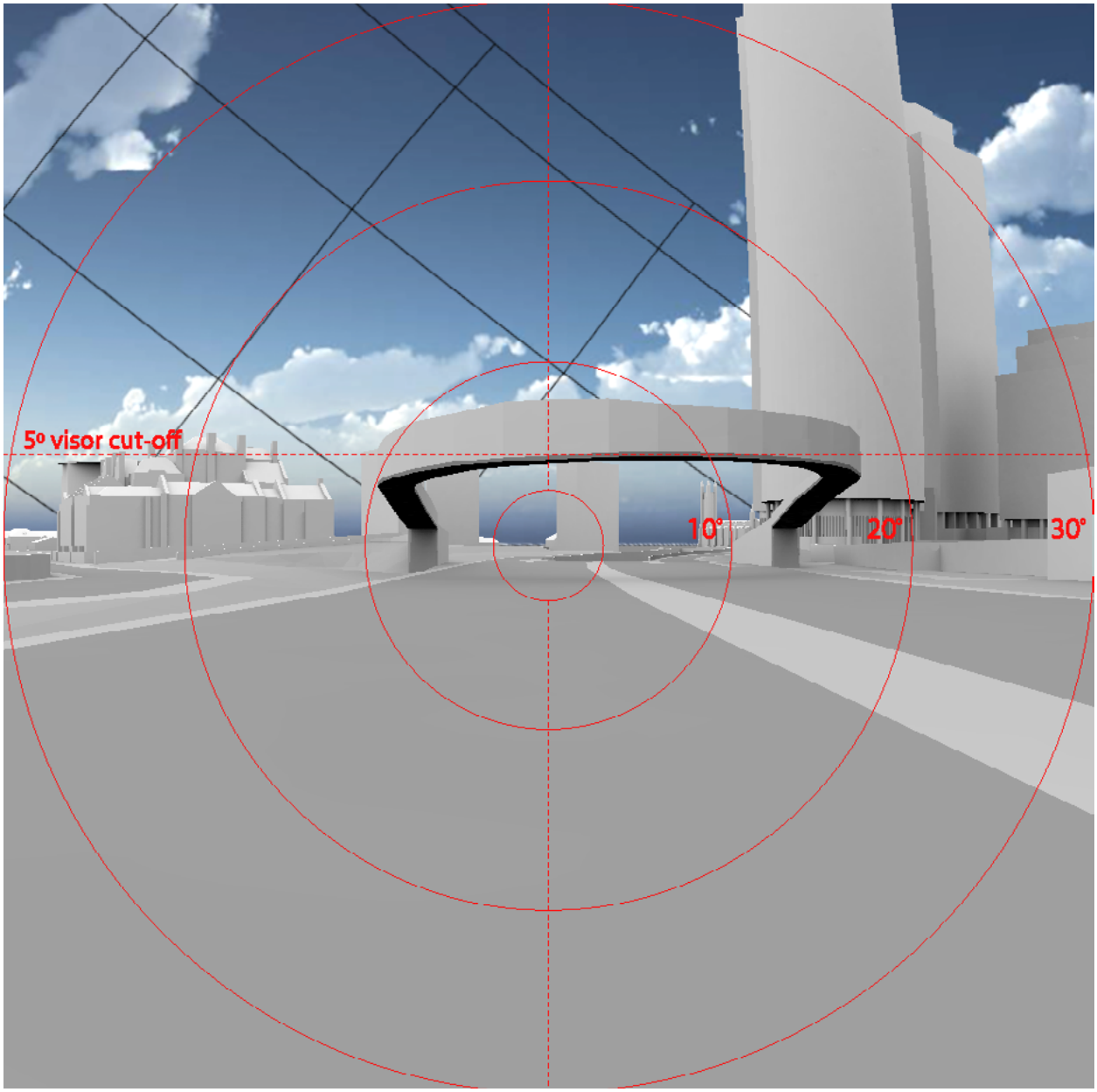


Fig. 90: Solar reflections



Medlock Street Junction Slip-road Westbound (with Mancunian Way/Ring Road)



Fig. 91: Viewpoint Location



Fig. 92: Viewpoint

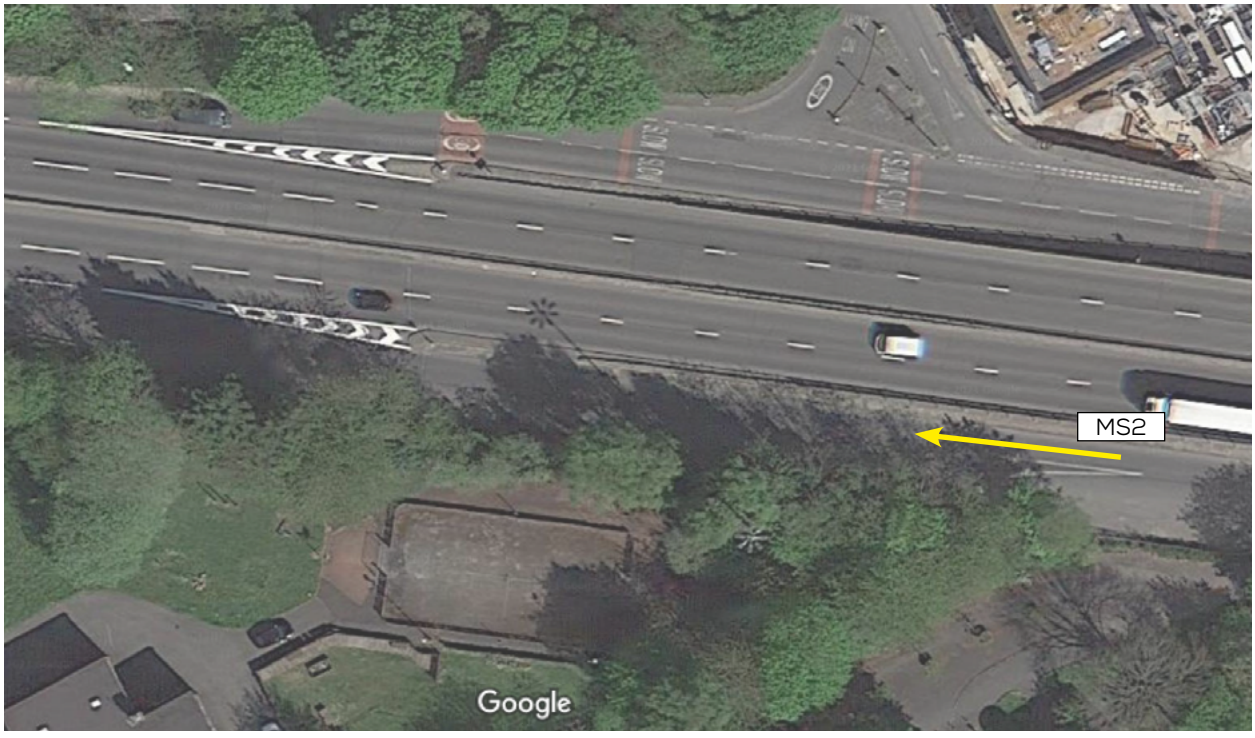


Fig. 93: Viewpoint Location

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT MS2 - MEDLOCK STREET JUNCTION SLIP-ROAD LOOKING FORWARD

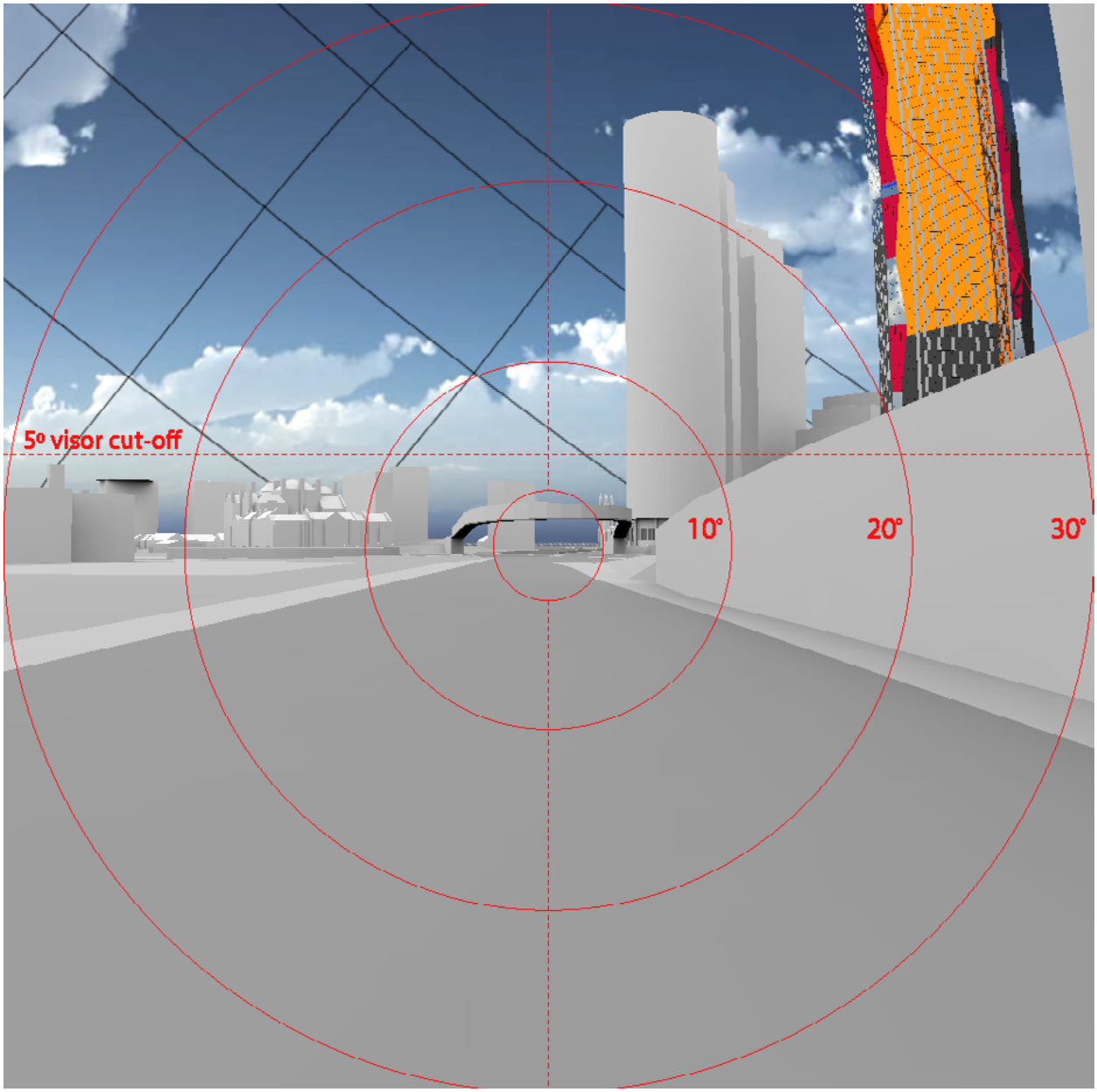
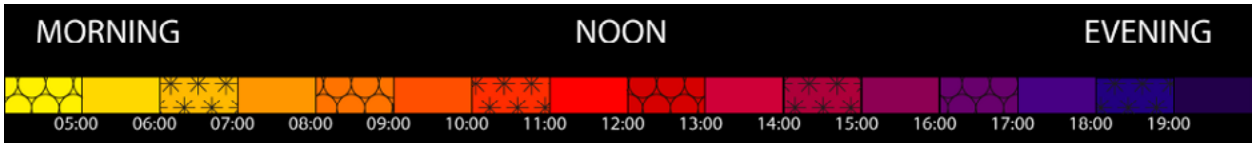


Fig. 94: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT MS2 - MEDLOCK STREET JUNCTION SLIP-ROAD LOOKING FORWARD

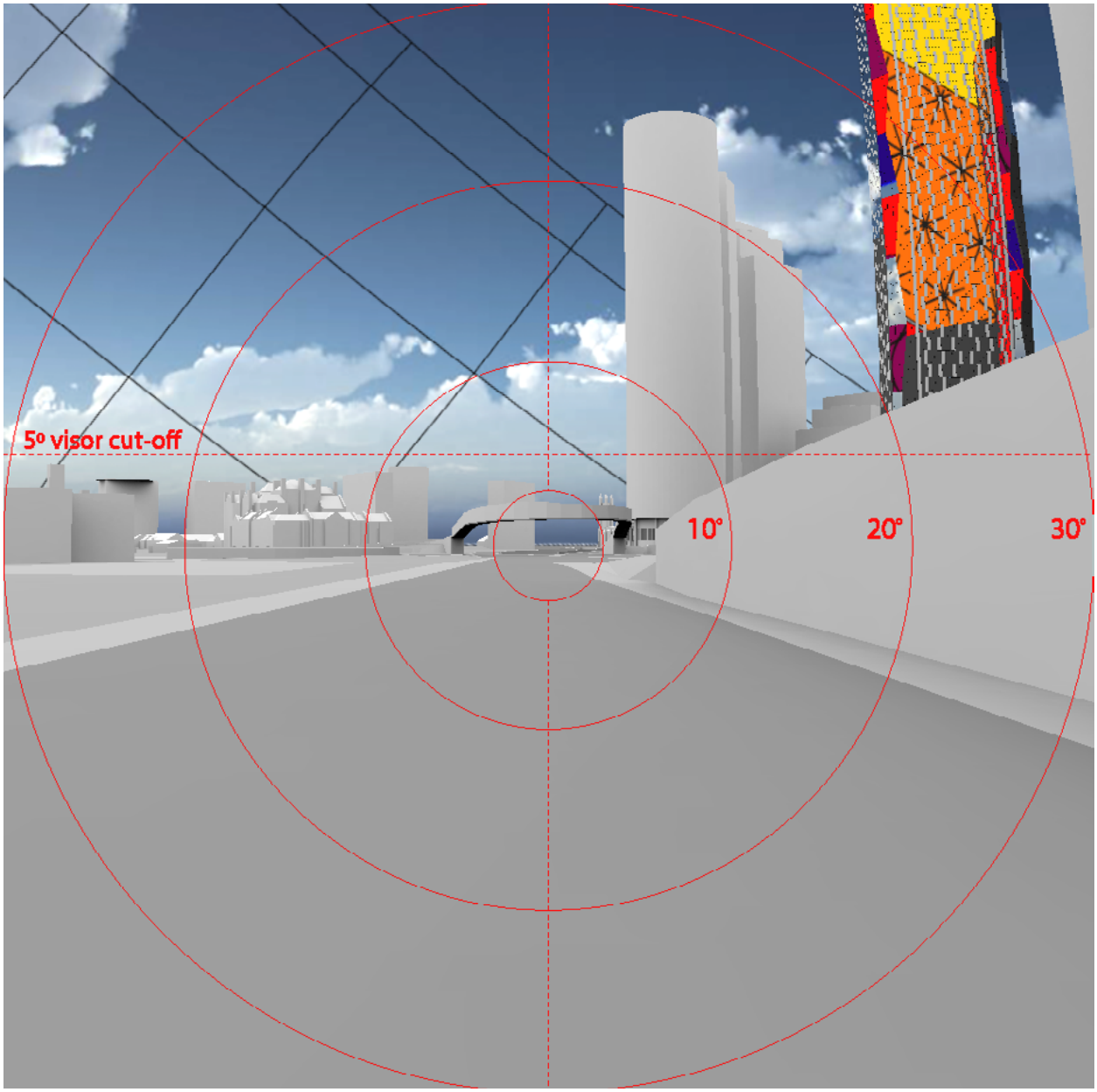


Fig. 95: Solar reflections



Princess Road/Medlock Street Junction Northbound 1



Fig. 96: Viewpoint Location

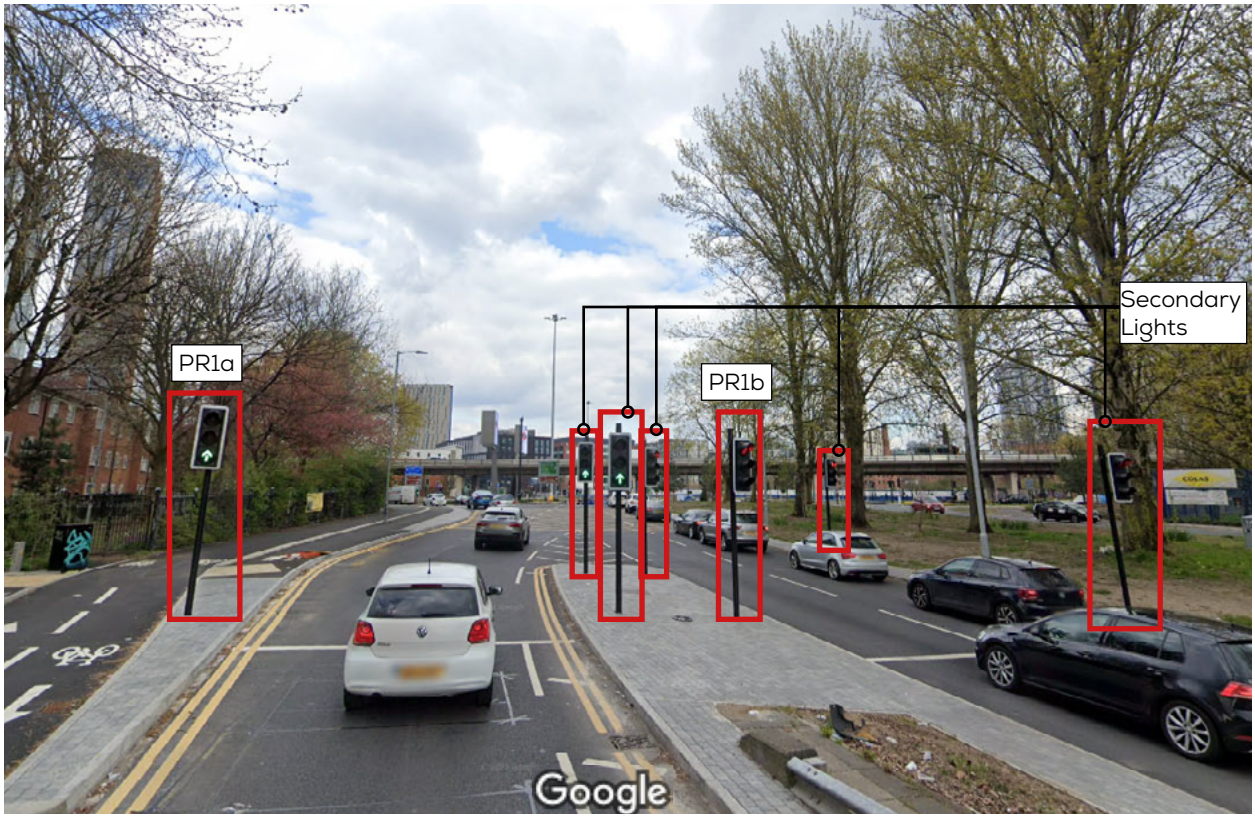


Fig. 97: Traffic Light Location

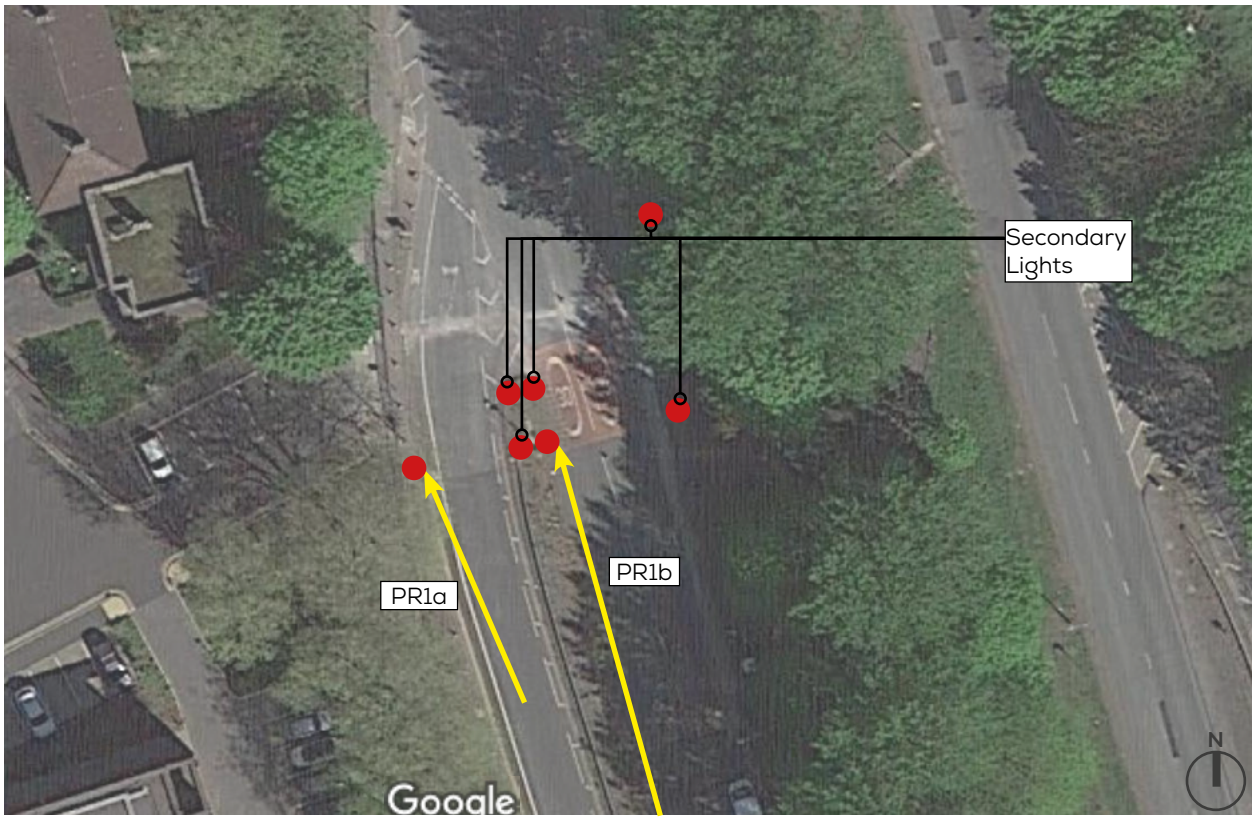


Fig. 98: Viewpoints

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT PR1A - PRINCESS ROAD JUNCTION 1 LOOKING AT LEFT TRAFFIC LIGHT

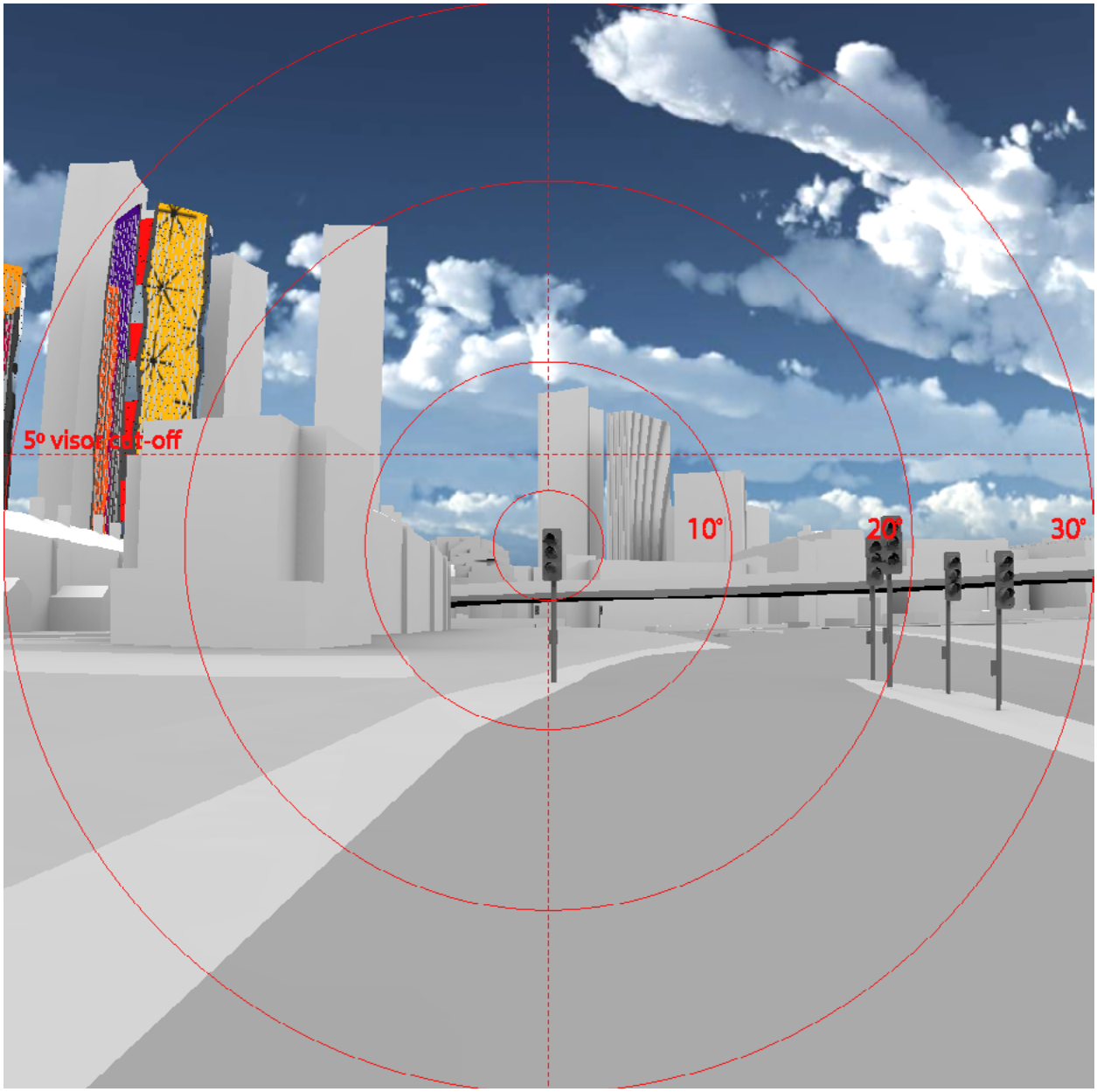
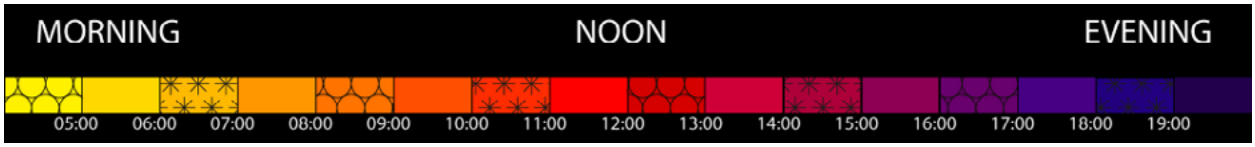


Fig. 99: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT PR1A - PRINCESS ROAD JUNCTION 1 LOOKING AT LEFT TRAFFIC LIGHT

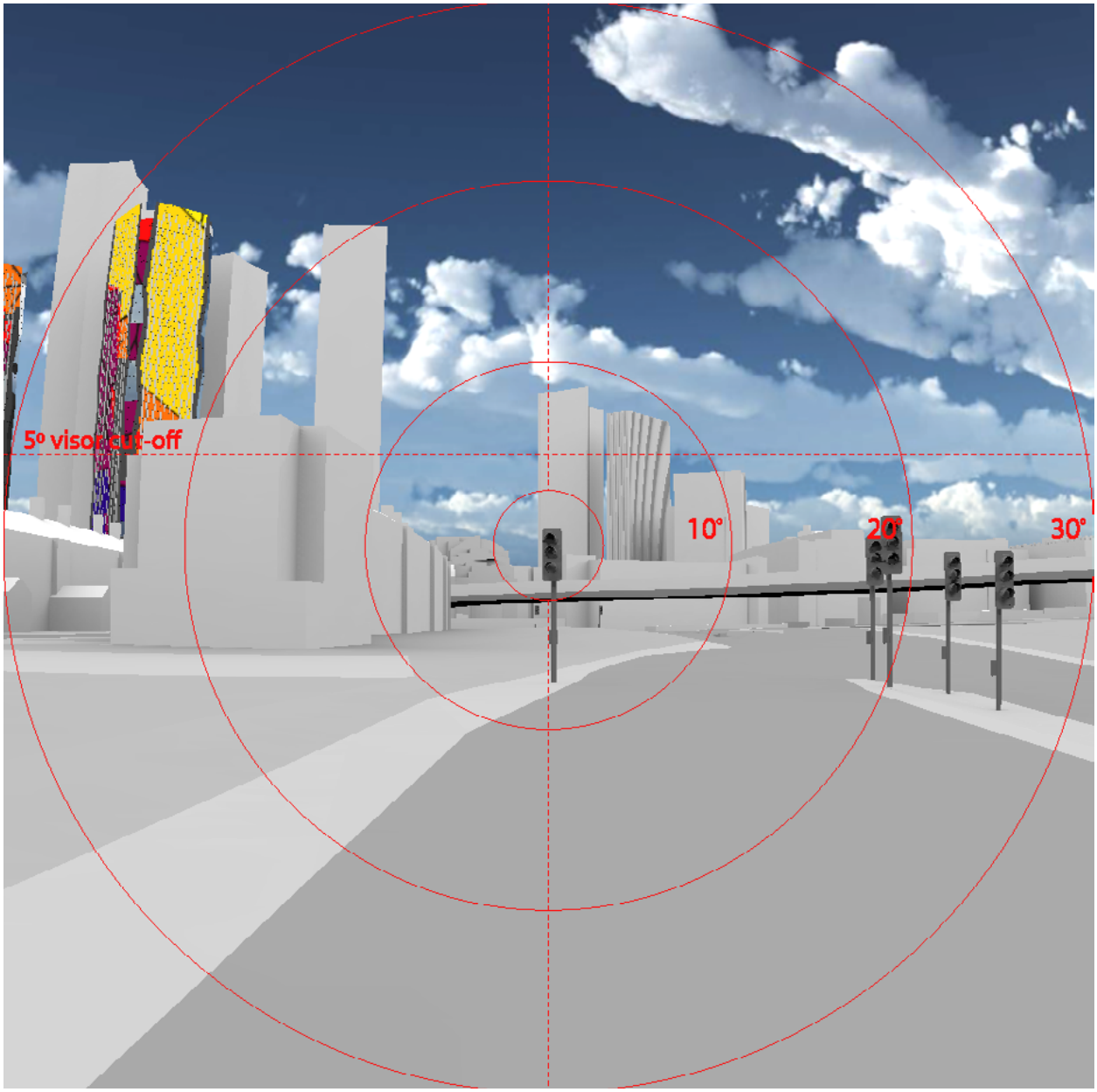


Fig. 100: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT PR1B - PRINCESS ROAD JUNCTION 1 LEFT LANE, LOOKING AT LEFT TRAFFIC LIGHT

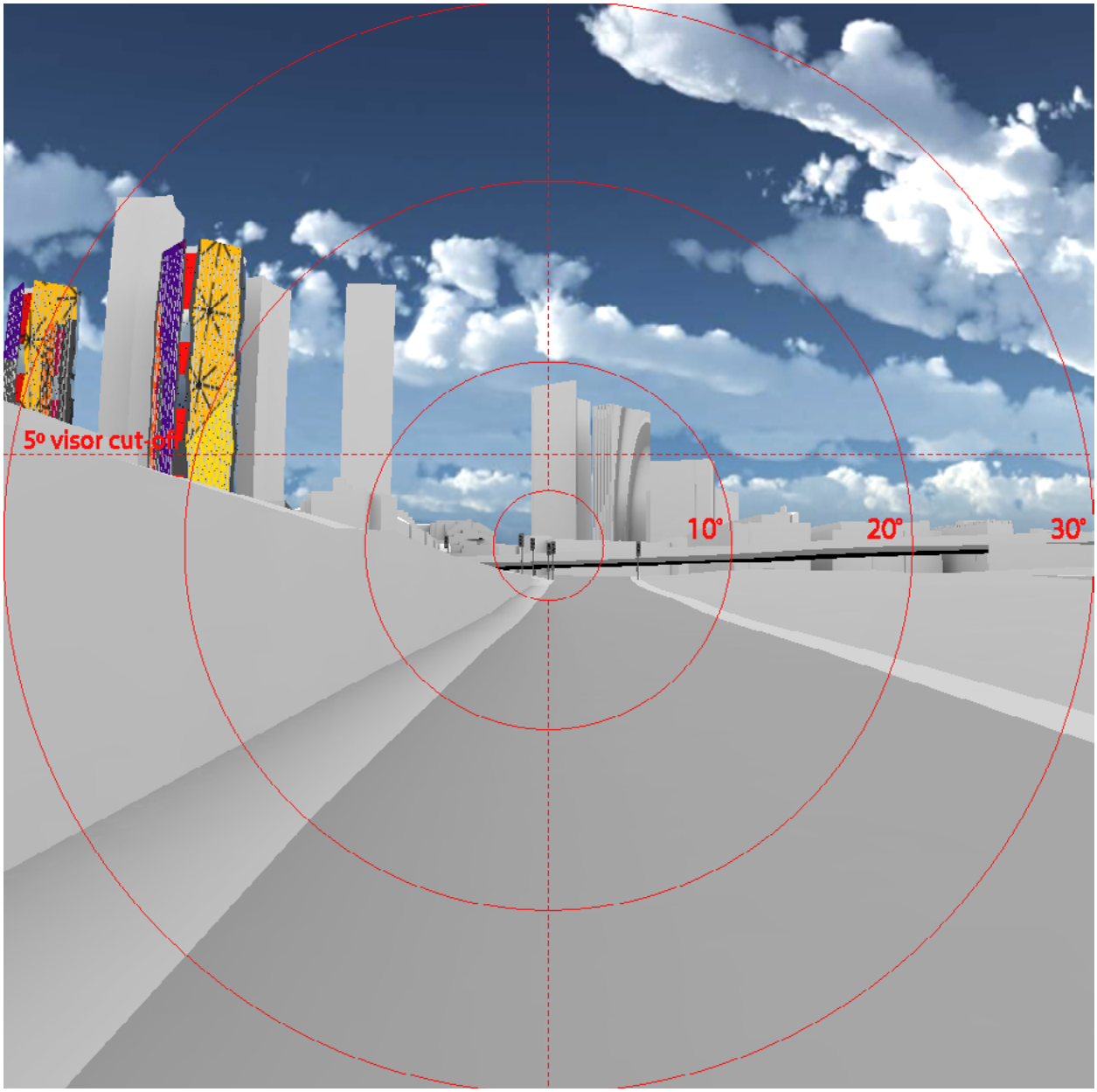
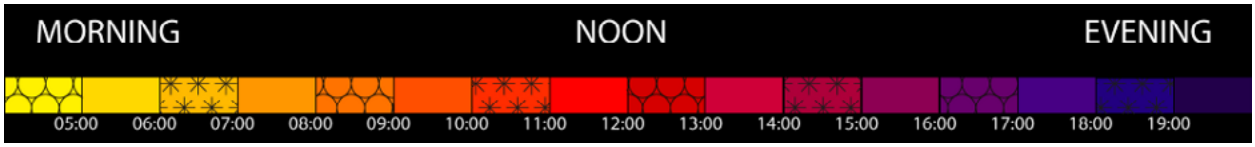


Fig. 101: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT PR1B - PRINCESS ROAD JUNCTION 1 LEFT LANE, LOOKING AT LEFT TRAFFIC LIGHT

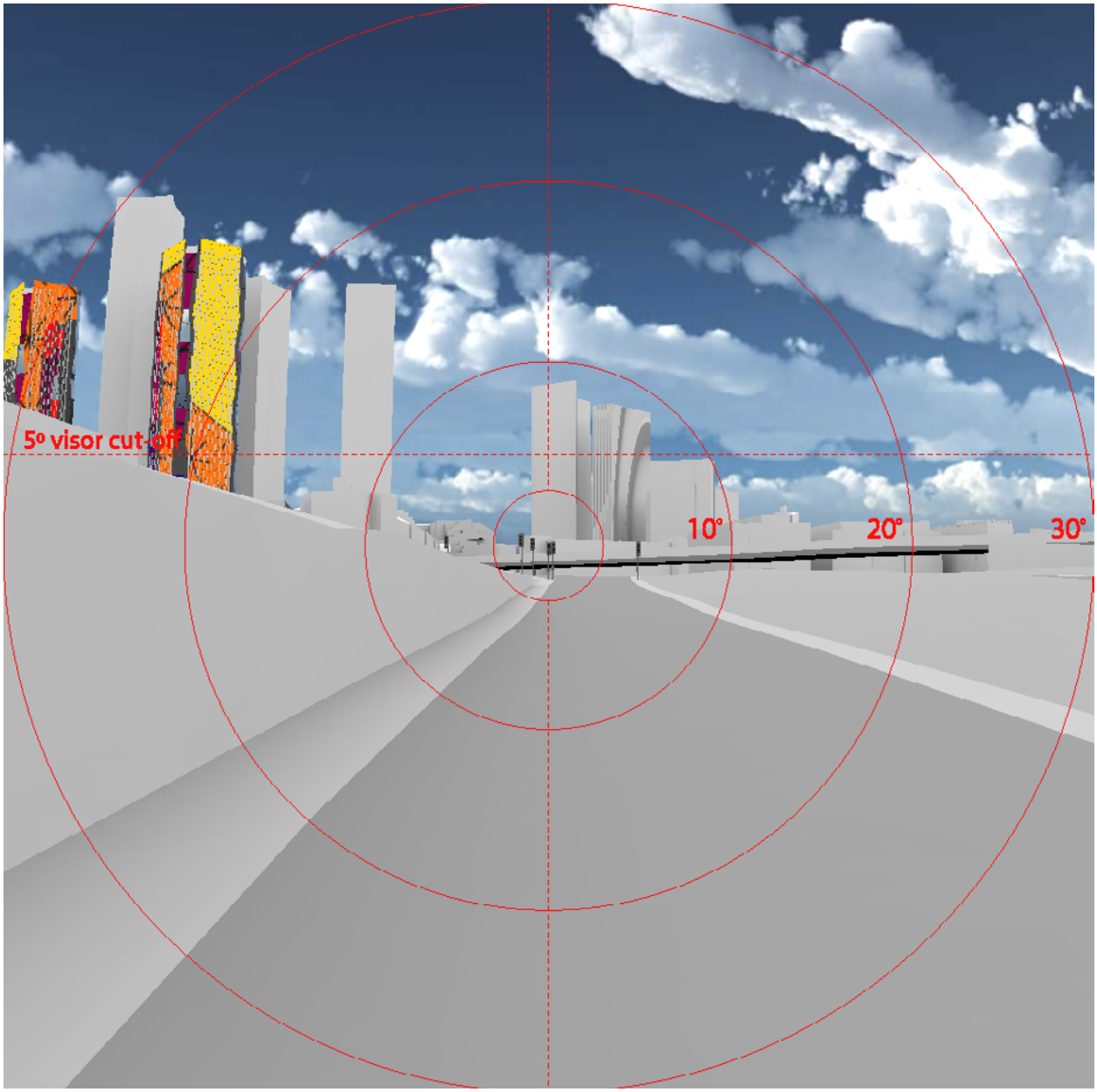


Fig. 102: Solar reflections



Medlock Street Junction with Slip-road Northbound 2



Fig. 103: Viewpoint Location

Please note that amendments have recently been made to this junction, up-to-date aerial imagery was not able to be obtained.

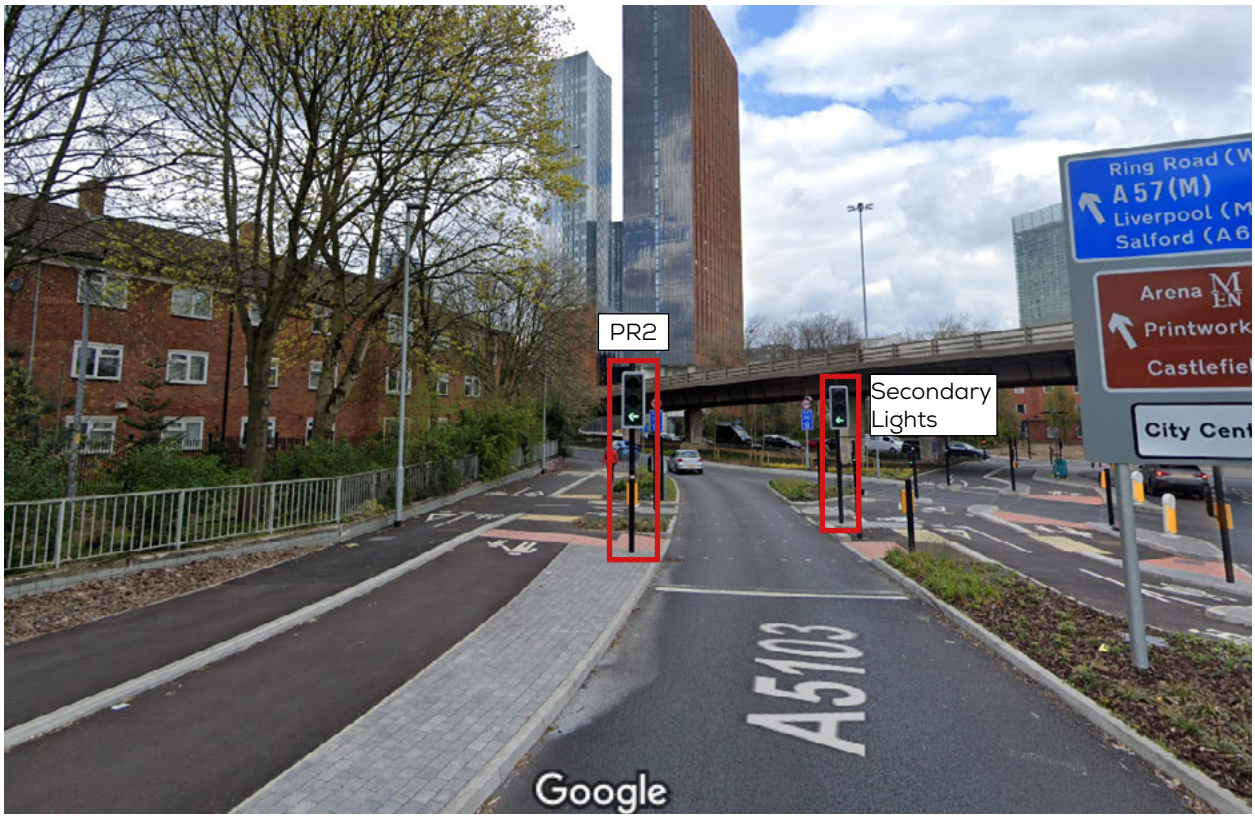


Fig. 104: Traffic Light Location

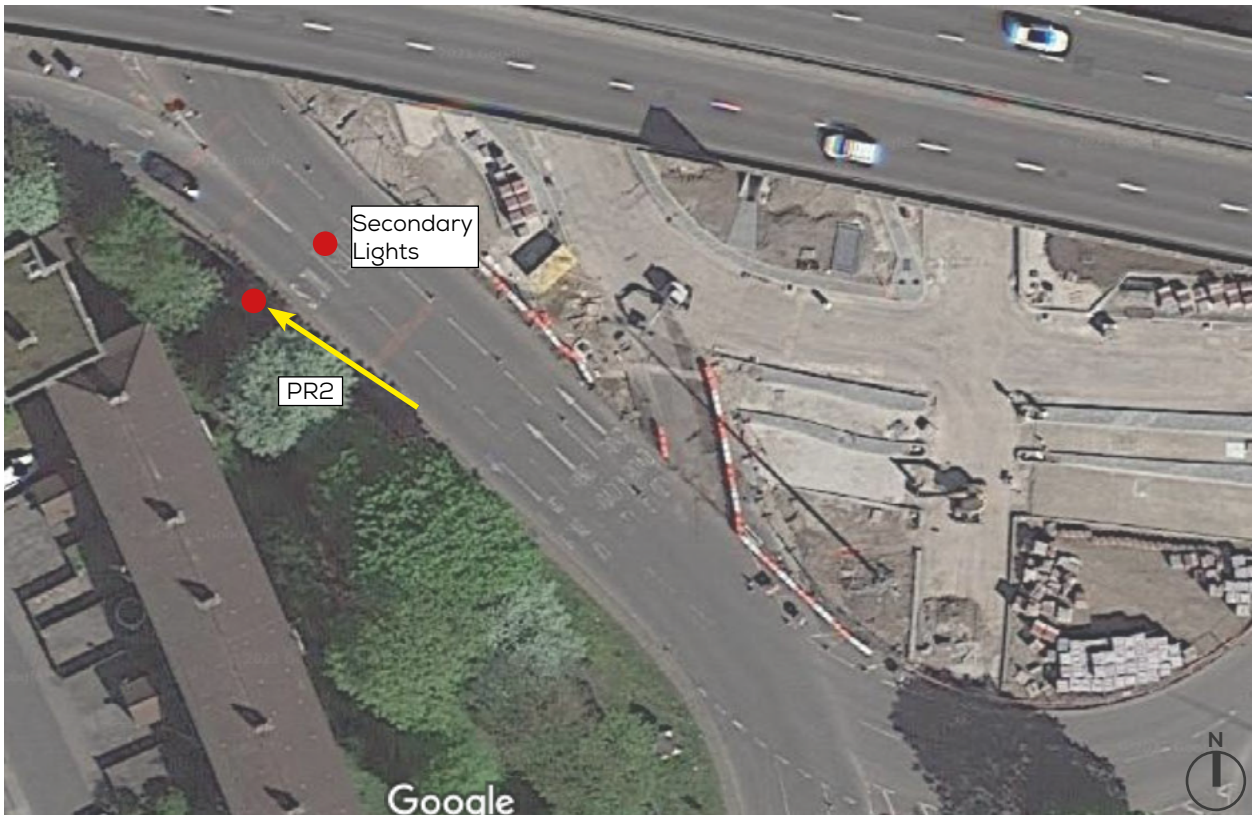


Fig. 105: Viewpoints

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT PR2 - MEDLOCK STREET JUNCTION 2 LOOKING AT LEFT TRAFFIC LIGHTS

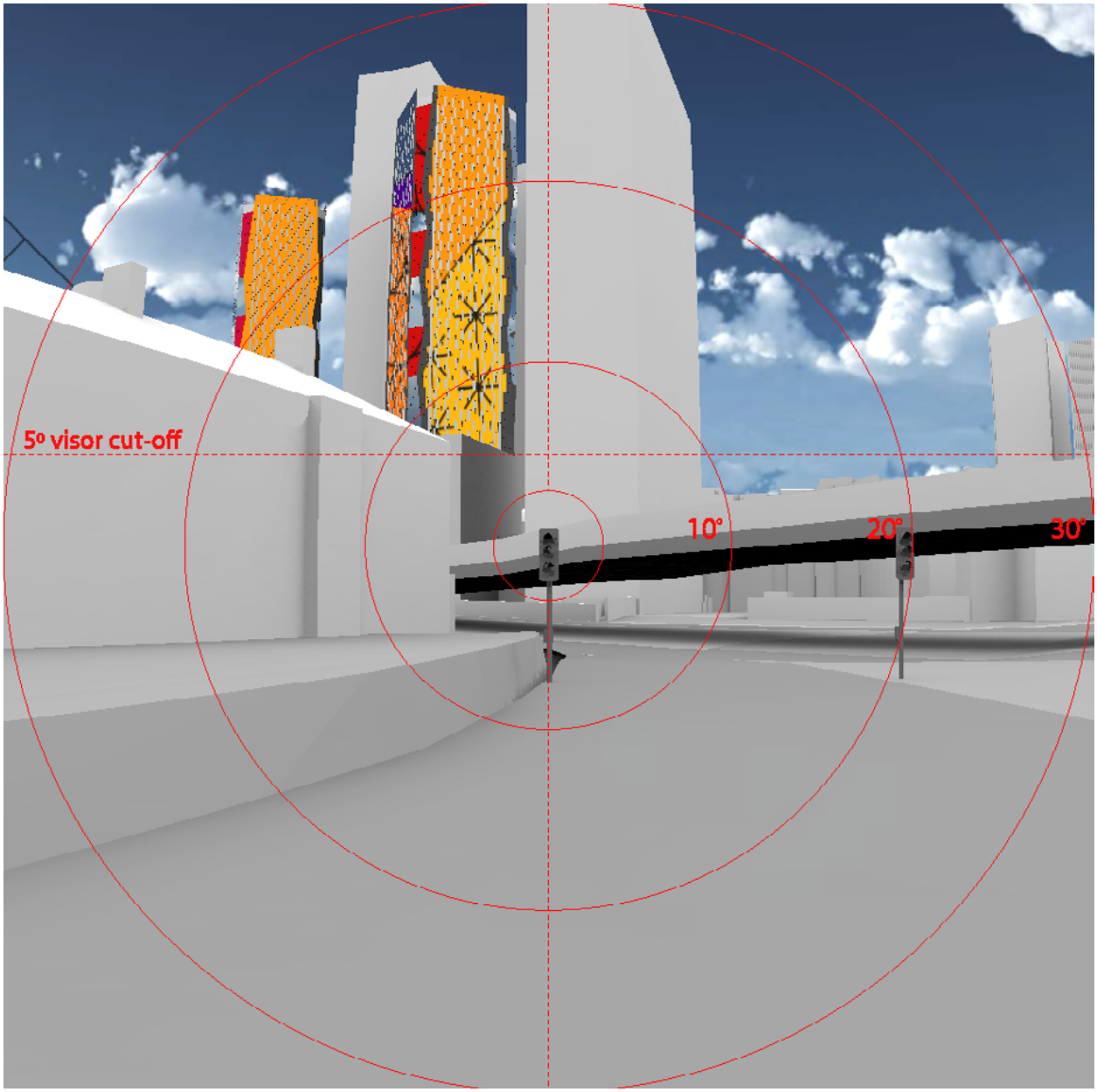
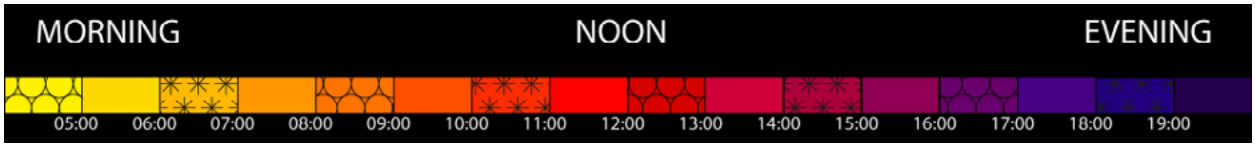


Fig. 106: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT PR2 - MEDLOCK STREET JUNCTION 2 LOOKING AT LEFT TRAFFIC LIGHTS

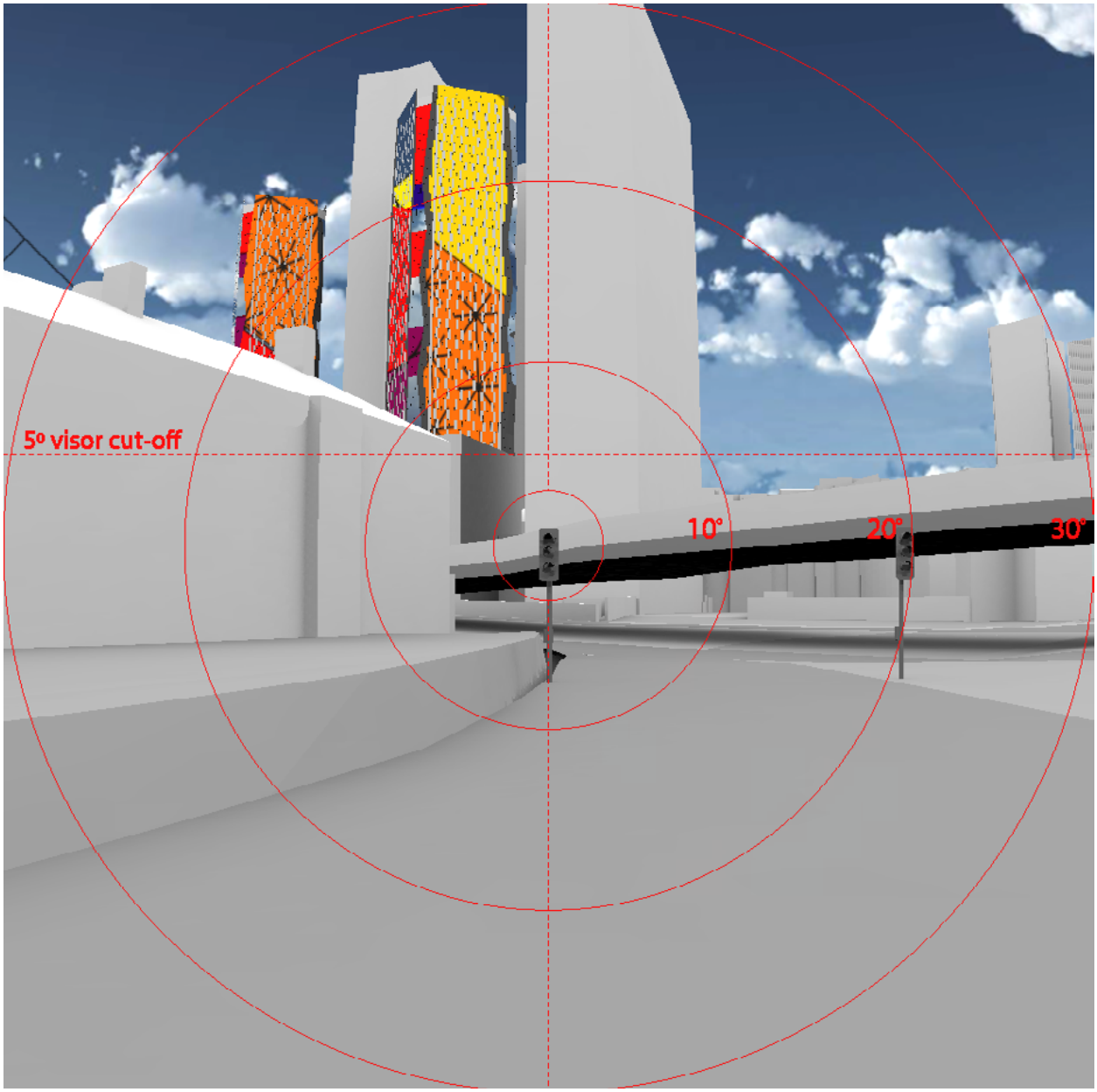


Fig. 107: Solar reflections



New Vine Street Northbound Junction (with Clarendon Street)



Fig. 108: Viewpoint Location



Fig. 109: Viewpoint

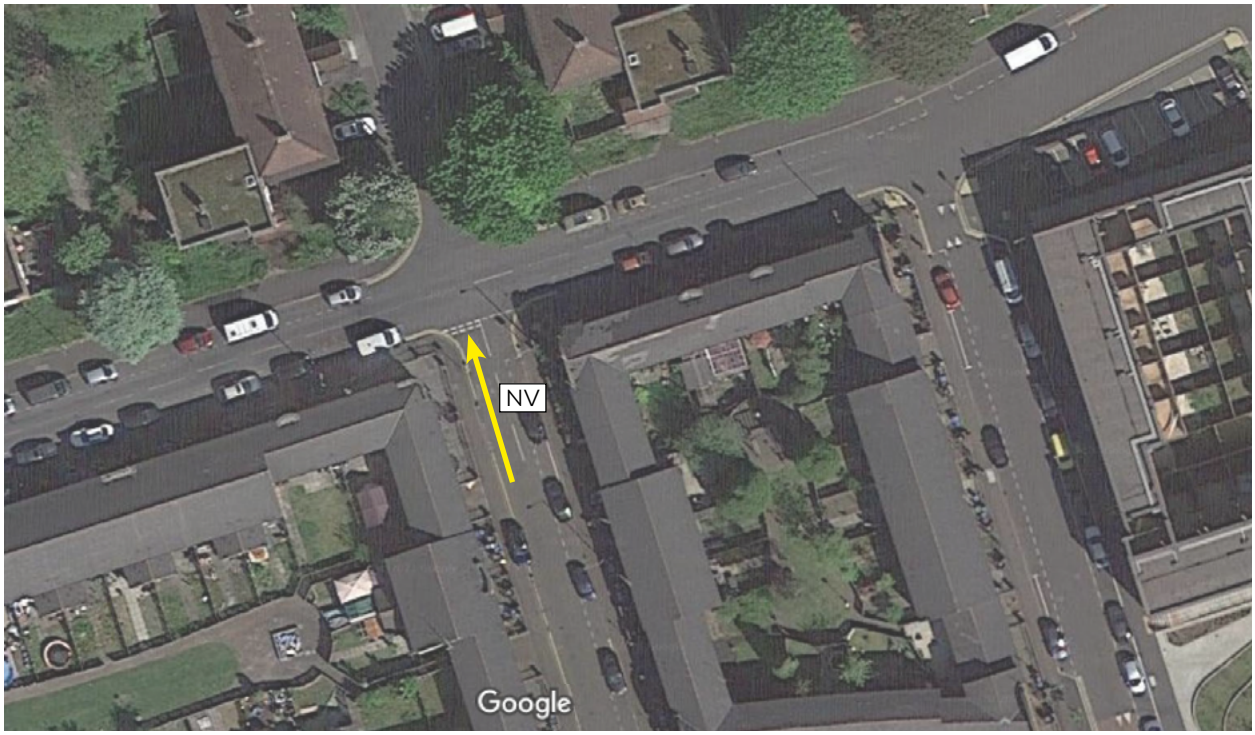


Fig. 110: Viewpoint Location

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT NV - NEW VINE STREET
LOOKING FORWARD

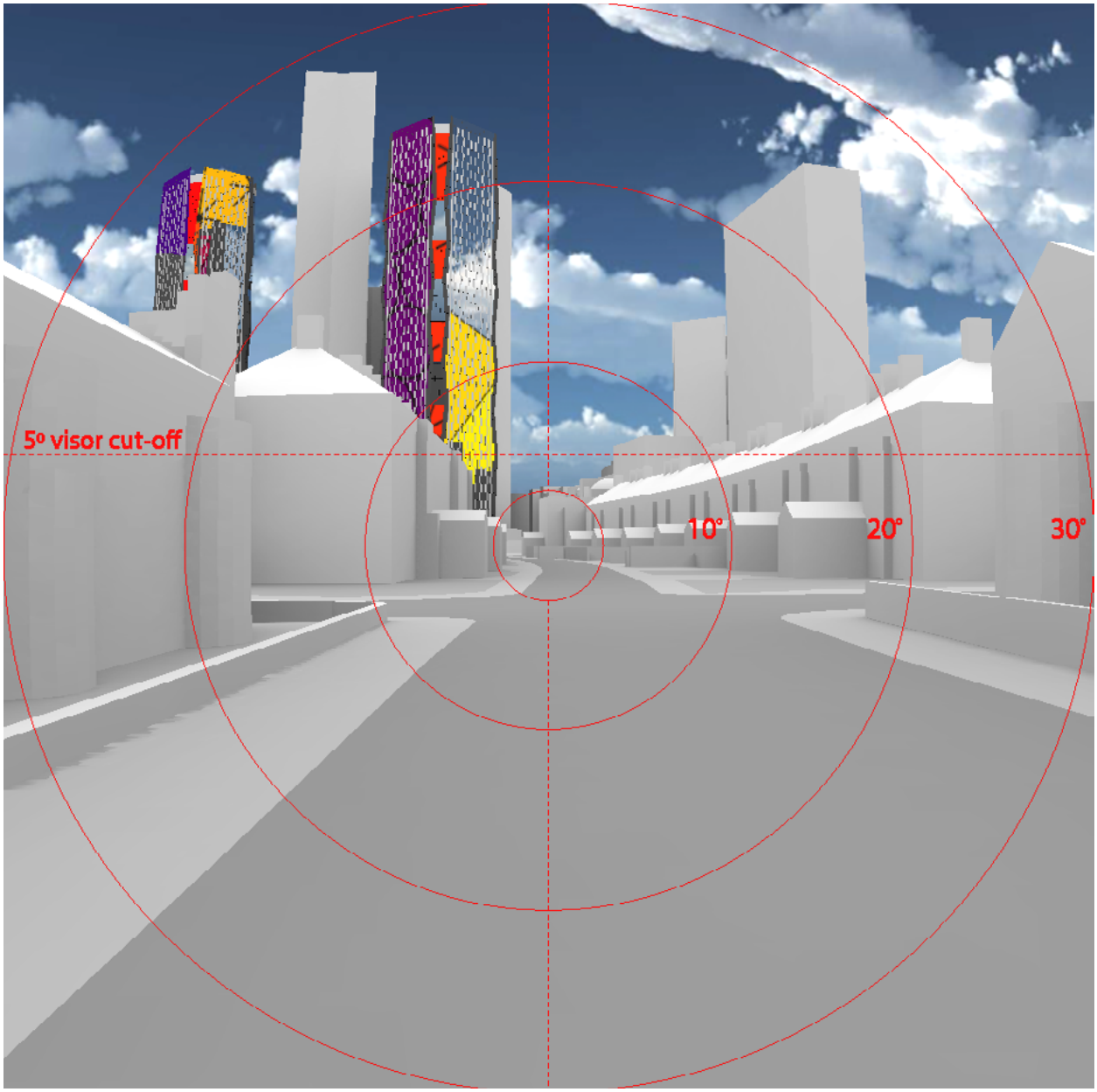
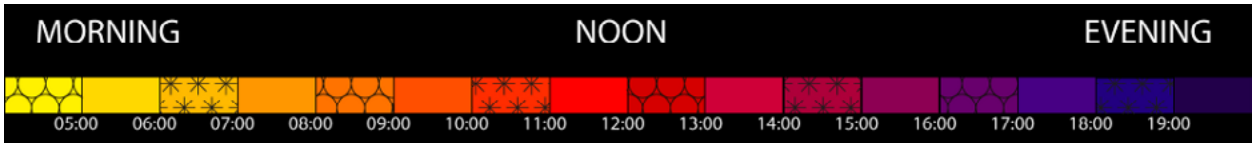


Fig. 111: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT NV - NEW VINE STREET LOOKING FORWARD

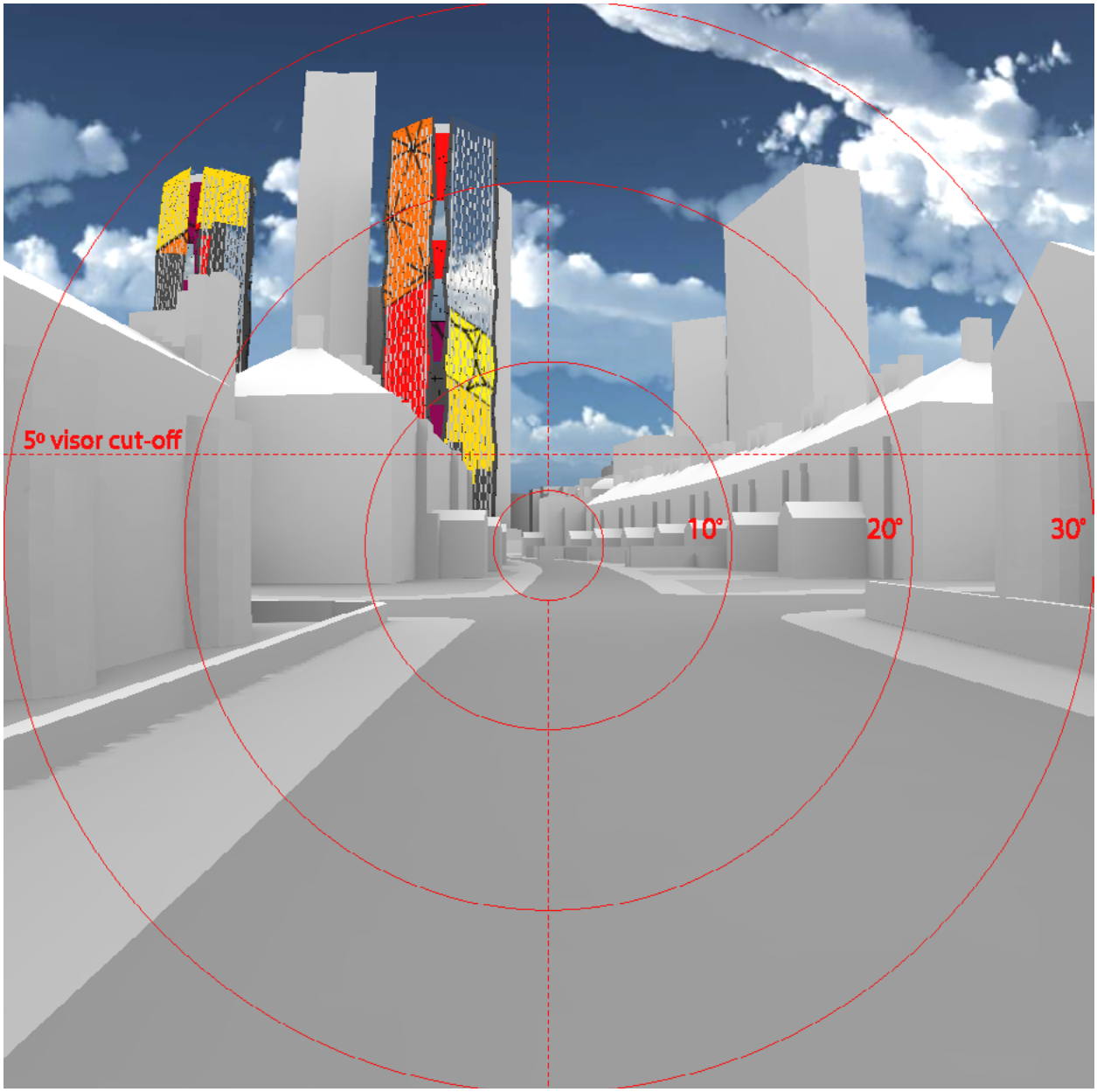


Fig. 112: Solar reflections



Tramline Travelling Westbound toward Deansgate-Castlefield Station



Fig. 113: Viewpoint Location



Fig. 114: Viewpoint Location

60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT TRAM - DEANSGATE-CASTLEFIELD TRAM LOOKING FORWARD

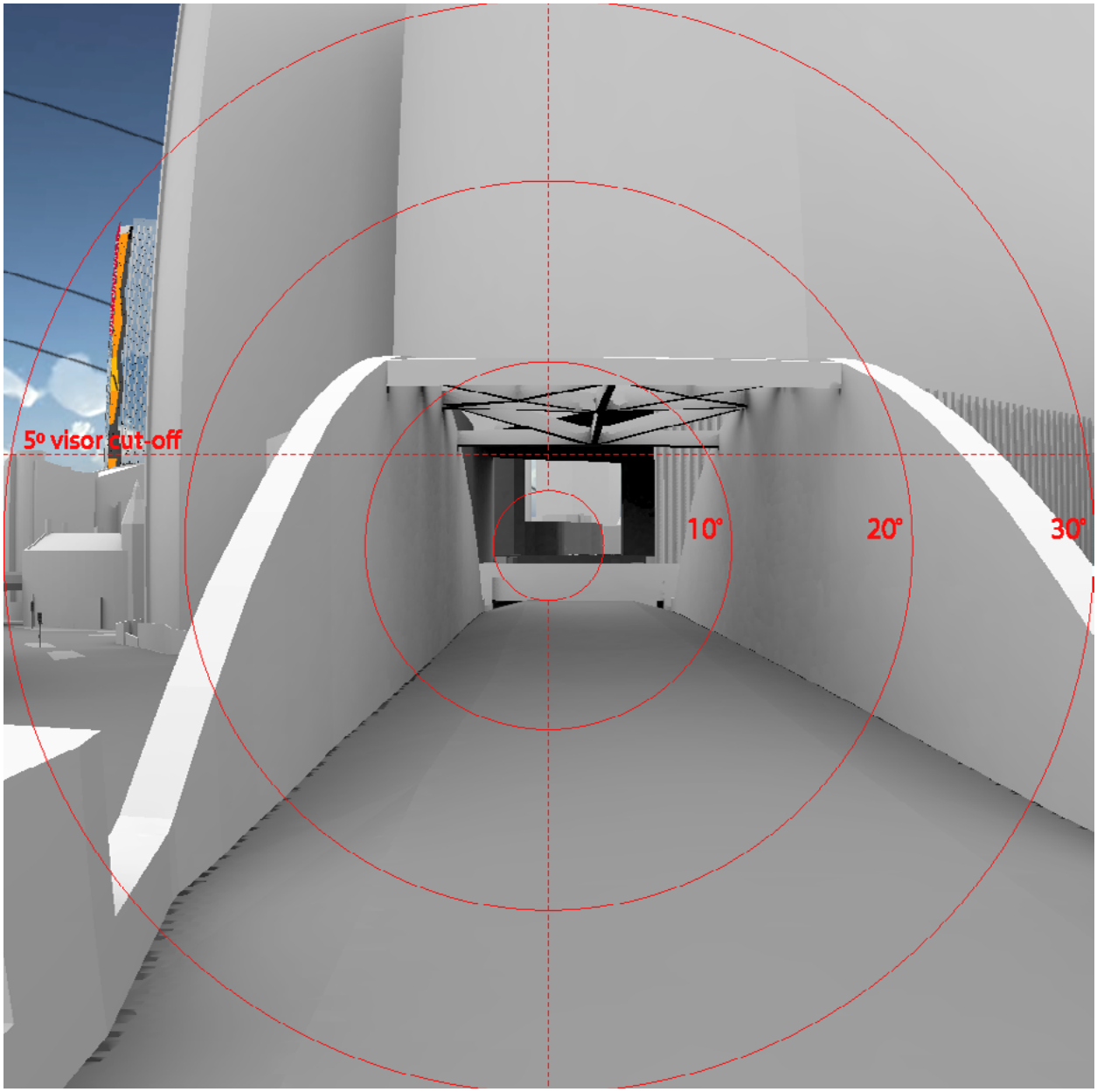
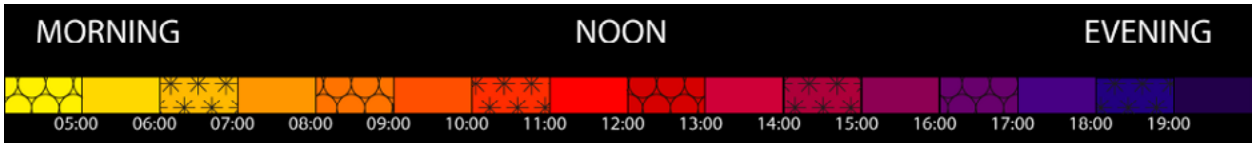


Fig. 115: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT TRAM - DEANSGATE-CASTLEFIELD TRAM LOOKING FORWARD

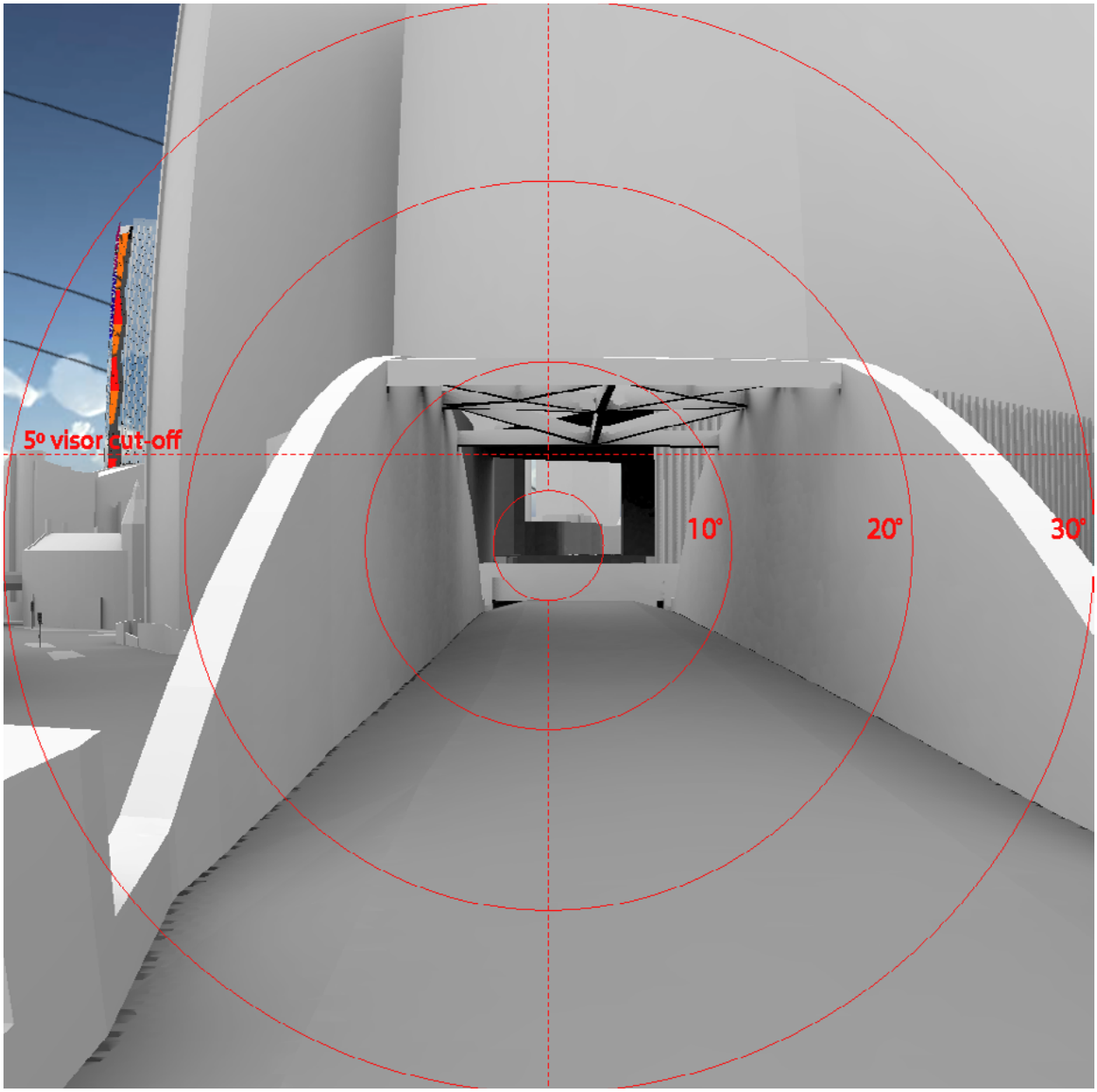


Fig. 116: Solar reflections



12. Townscape and Visual Impact

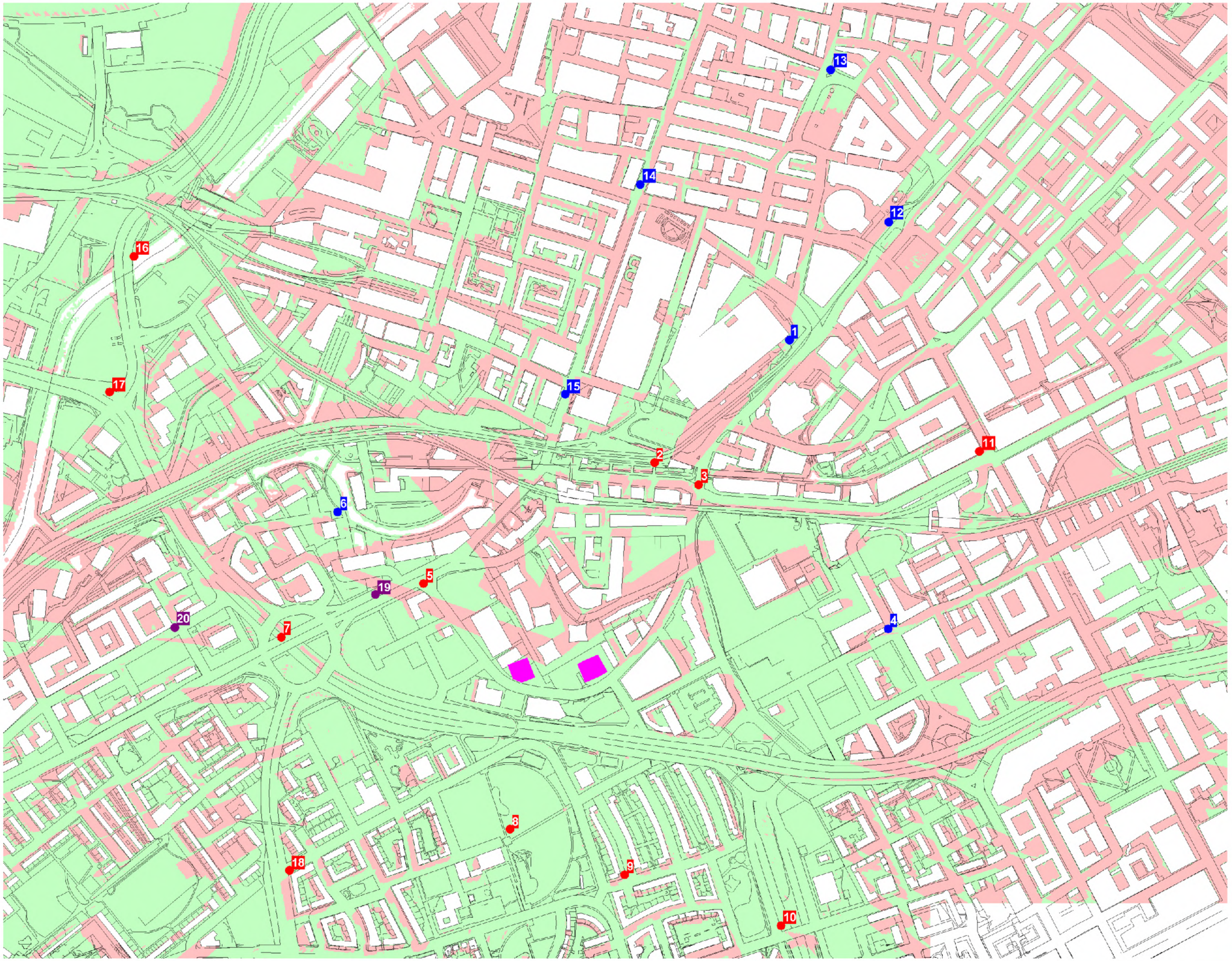
Appendix 12.1: Maps



APPENDIX 8.1

Chris Burnett Associates

22 09 21



Key

- building footprints
- buildings visible
- buildings not visible
- OS Local Vector building footprints and/or DSM no-data values
- townscape viewpoint location
- townscape and heritage viewpoint location
- heritage viewpoint location

(NB Viewshed analysis is calculated from the top of the buildings to locations 1.6m above the surface of the DSM data taking into account a normal earth surface curvature correction.)

0 0 57.5 115.0 metres

Date	Details	Revision
20/05/21	Revised viewpoint locations.	-01
24/05/21	Identification of heritage only viewpoint locations.	-02
25/05/21	Minor amendment.	-03
24/06/21	Minor amendment.	-04

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Client **Renaker**

Project **Plot F Great Jackson Street, Manchester**

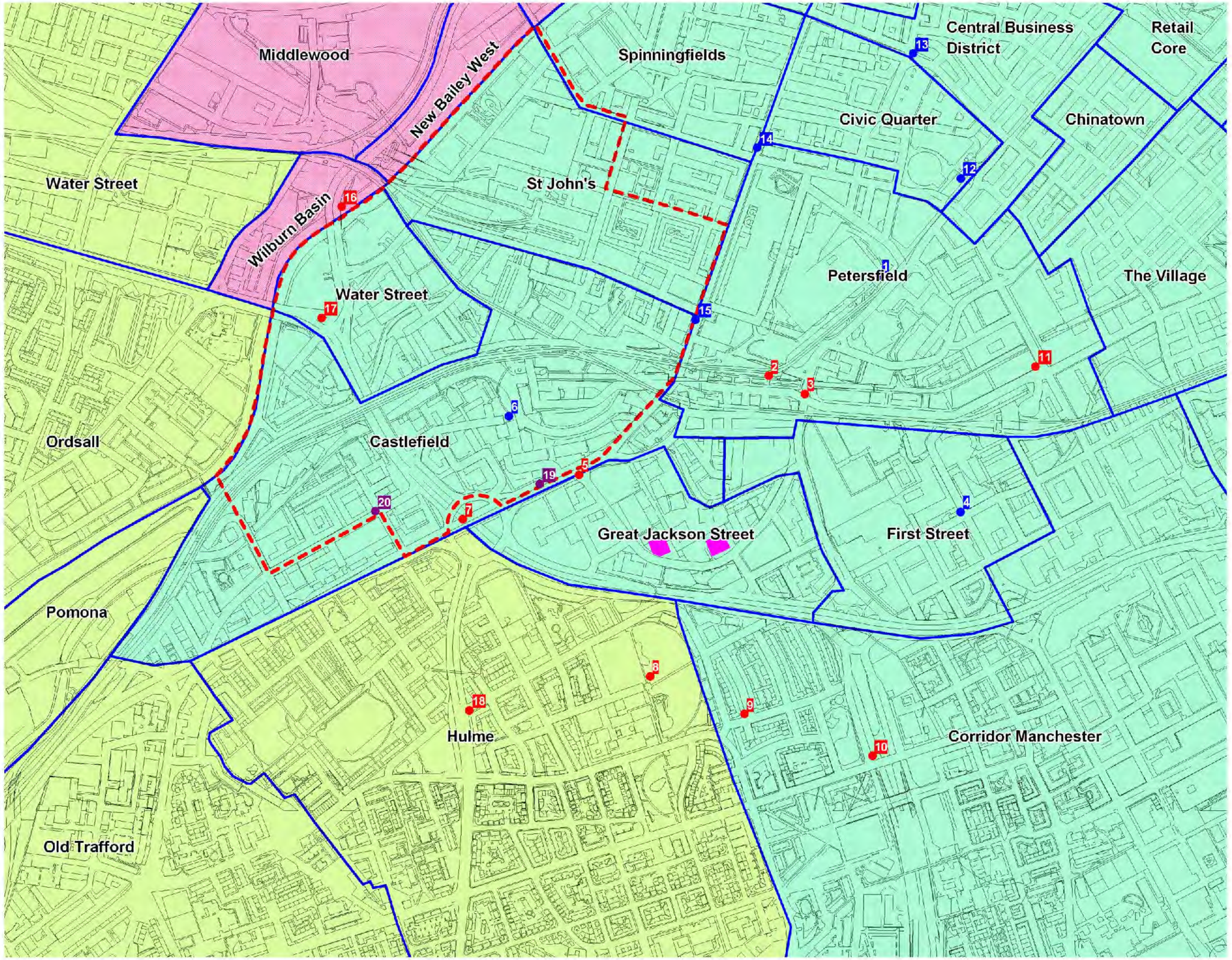
Title **Viewshed Analysis & Viewpoint Locations**

Scale **1:5,750 @ A3**

Date	Drawn	Checked
24/06/21	JHD	CB

Reference **PFGJSM21.01** Revision **-04**

N



Key

- building footprints
- Castlefield Conservation Area
- Residential Neighbourhood Area
- Townscape Character Area
- Salford City Centre Areas
- townscape viewpoint location
- townscape and heritage viewpoint location
- heritage viewpoint location

0 70 140 metres

Date	Details	Revision
21/09/21	Minor amendment.	-01

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CHRIS BURNETT

Client: **Renaker**

Project: **Plot F Great Jackson Street, Manchester**

Title: **Character Areas & Viewpoint Locations**

Scale: **7,000 @ A3**

Date	Drawn	Checked
21/09/21	JHD	CB

Reference: **PFGJSM21.02 -01**

Revision

Appendix 12.2: Viewpoint and townscape photographs including AVR and block images.



PLOT F

Townscape and Visual Impact Assessment: VIEWPOINT PHOTOS

APPENDIX 8.2

Chris Burnett Associates

24 09 21



KEY FOR CUMULATIVE / PERMITTED DEVELOPMENT SCHEMES



All photographs and verified photomontages supplied by Ambiente . See Technical Appendix for details.



All photographs and verified photomontages supplied by Ambiente See Technical Appendix for details.



All photographs and verified photomontages supplied by Ambiente . See Technical Appendix for details.



All photographs and verified photomontages supplied by Ambiente . See Technical Appendix for details.

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CHRIS BURNETT ASSOCIATES 01 09 21

PLOT F Townscape and Visual Impact Assessment

Deansgate Tram Station
PROPOSED

2



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Appendix 12.3: Visualization methodology

13. Traffic and Transport

Appendix 13.1 - Transport Statement









Great Jackson Street, Plot F

Transport Assessment

Curtins Ref: 078616-CUR-00-XX-RP-TP-001

Revision: V03

Issue Date: 14 October 2021

Client Name: Renaker Build Limited

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Control Sheet

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Author	Signature	Date
David Dominguez Senior Transport Planner		14 October 2021

Reviewed	Signature	Date
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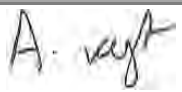
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Drawing 078616-CUR-00-XX-DR-TP-06005 – Accessibility – Public Transport Catchment

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Drawing 078616-CUR-00-XX-DR-TP-75001 – Access Arrangement
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Appendices

Appendix A – Site Layout Plan & Accommodation Schedule
Appendix B – Traffic Figures
Appendix C – TRICS Output
Appendix D – Junction Capacity Assessment Results

1.0 Introduction

1.1 Background

1.1.1 Curtins has been appointed by Renaker Build Limited to provide traffic and transport advice in relation to the redevelopment of a Site known as Plot F at Great Jackson Street, Manchester.

1.1.2 The proposals include the demolition of the existing building on-Site and the construction of a high quality residential scheme across two 51 storey towers (identified as F1 and F2), alongside both publicly accessible and private public realm, internal residential amenity uses, private car parking within two and three tiered multi-storey basements and extensive cycle parking facilities.

1.1.3 Plot F forms part of the wider Great Jackson Street Strategic Regeneration Framework (SRF) which encompasses a Site area of 7.78 hectares, as shown in **Figure 1.1** below:

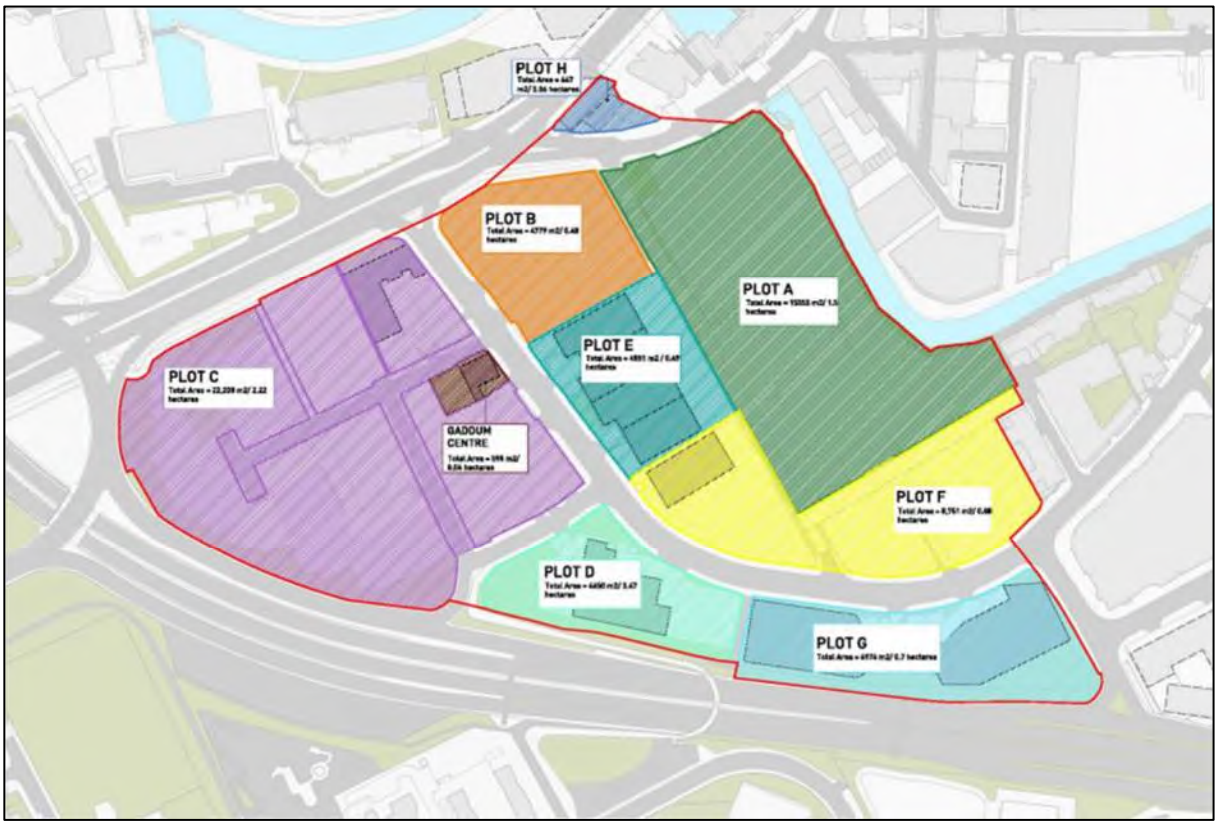


Figure 1.1 – Great Jackson Street SRF – Development Plots (Source: Great Jackson Street Development Framework. 2018 Update)

1.1.4 Manchester City Council originally endorsed a Development Framework for Great Jackson Street in 2007, based on a mix of residential and commercial uses. This was subsequently updated in 2015 and finally in 2018 in order to establish a set of development principles appropriate to the creation of a new, more focused residential-led neighbourhood and community in this part of the city centre. This

neighbourhood has an essential role to play in supporting Manchester's growth, productivity and quality of life.

1.1.5 The proposed Site layout plan for Plot F is included in **Appendix A**.

1.2 Purpose of the Report

1.2.1 This TA has been prepared to inform Highway Officers at Manchester City Council (MCC) and Transport for Greater Manchester (TfGM) with regard to the Proposed Development and the potential impact on the surrounding area from a traffic and transportation perspective.

1.2.2 A Framework Travel Plan (FTP) has also been prepared (**Document Reference: 078616-CUR-00-XX-RP-TP-002)** to minimise the number of car trips generated by the Proposed Development and encourage residents to use sustainable modes of transport.

1.3 Scope of the Report

1.3.1 A meeting was held with MCC on 7th June 2021, which set out the key parameters to be used for the TA. TfGM was also consulted as part of the scoping process.

1.3.2 The following key points were agreed during scoping discussions:

- Vehicular access strategy for the Site;
- Car and cycle parking proposals;
- Existing and proposed trip generation of the Site, including net traffic flows;
- Methodology for trip distribution and assignment;
- Traffic data for the assessment;
- Traffic modelling study area; and
- Proposed scope of the TA and FTP.

1.3.3 Based on scoping discussions with MCC and TfGM, this TA contains the following:

- Details of the existing situation;
- Details of the Proposed Development;
- Summary of relevant transport planning policy;
- Review of the accessibility of the Site by all modes of transport including walking, cycling, and public transport;
- Review of collision data for a five-year period in the vicinity of the Site;
- Details of the access, parking, and servicing arrangements; and
- Traffic impact of the Proposed Development.

1.4 Structure of the Report

1.4.1 Following on from this introduction, **Section 2** of this report considers the Site location and existing situation. It also considers the surrounding highway network and a review of highway safety in the vicinity of the Site.

1.4.2 The Proposed Development is summarised in **Section 3**, including the proposed access arrangements and parking provision. It also sets out the arrangements for servicing and delivery vehicles.

1.4.3 The accessibility of the Site by sustainable modes of transport is assessed in **Section 4**.

1.4.4 **Section 5** outlines the traffic forecasting methodology used to establish the likely traffic generation associated with the Proposed Development and the highway impact. **Section 6** provides the junction capacity assessment results for the study area.

1.4.5 **Section 7** summarises key national and local transport planning policy, and **Section 8** provides a report summary and conclusions.

2.0 Existing Situation

2.1 Site Location

2.1.1 The Site is located on the south-west edge of Manchester City Centre, situated in the Deansgate-Castlefield area. The Site is also within walking distance of the Deansgate rail station, the Deansgate-Castlefield Metrolink station, and is well connected to central Manchester, Spinningfields, and Hulme.

2.1.2 The Site is bounded to the north by Plot A of the SRF (Deansgate Square development), to the east by existing residential buildings, to the west by Plot E of the SRF (currently vacant buildings), and to the south by Great Jackson Street. The Site is also in the vicinity of many local amenities and leisure / entertainment facilities such as Deansgate Locks and First Street. The following **Figure 2.1** illustrates the Site in relation to the local highway network:

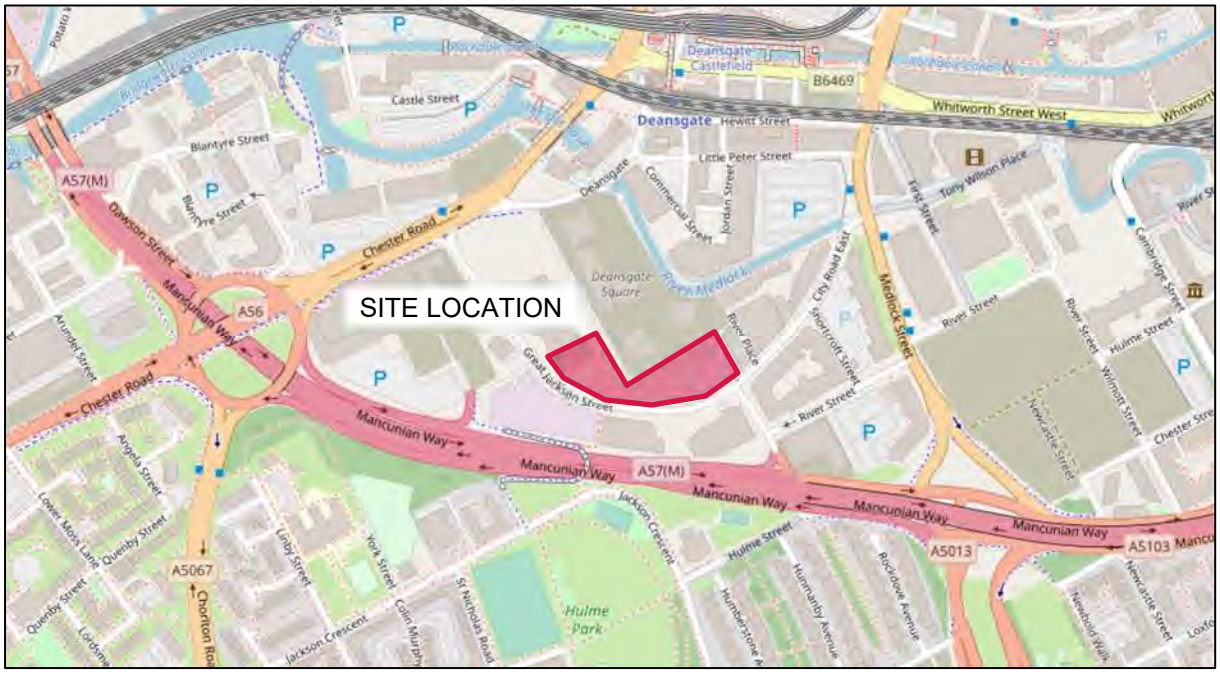


Figure 2.1 – Indicative Site Location in Relation to the Local Highway Network. (Source: ©OpenStreetMap)

2.2 Existing Use and Access

2.2.1 The Site comprises areas of hardstanding formerly used as Peugeot car compound. It is currently occupied by the site cabins and surface car parking associated with the construction of Deansgate Square, in addition to an existing industrial building to the west of the Site. There is no recent planning history of relevance to the Site.

2.2.2 The car park is located to the west of the Site (Plot F1). This car park is accessed via Great Jackson Street and provides c. 68 parking spaces.

2.2.3 The construction compound is located to the east of the Site (Plot F2) and is currently in use accommodating materials in storage, contractor's welfare and some vehicular parking. Access is also provided from Great Jackson Street.

2.2.4 Various site visits have been undertaken in May and June 2021. During these sites visits Curtins had the opportunity to observe and analyse the current usage and levels of traffic associated with the existing uses, as well as on-street parking levels along Great Jackson Street. The site visits also provided the opportunity to review the surrounding highway network and provision for pedestrians and cyclists.

2.3 Surrounding Highway Network

Great Jackson Street

2.3.1 Forming the northern boundary of the Site, Great Jackson Street connects the A56 Chester Road to the A5103 Medlock Street in a semi-circular route from west to east, continuing on as City Road East past the priority junction with Garwood Street at the north-east of the Site. The roads form the minor arm of a priority junction at both ends and have a combined length of circa 580m. The priority junction at the western end of Great Jackson Street has a left-in, left-out arrangement, whilst the priority junction at the eastern end of the road allows for all traffic movements.

2.3.2 Great Jackson Street comprises a single carriageway with a typical width of 10m. There are also footways of an average 2.5m with on both sides of the road, along with street lighting at regular intervals on the southern side of the road. The road is also subject to a speed limit of 20mph

2.3.3 Great Jackson Street is in Zone 4 of Manchester City Centre's Controlled Parking Zone (CPZ), where Pay and Display (P&D) parking is provided for up to 10 hours between 08:00 and 20:00 on Mondays to Sundays, with no return within 1 hour and no charge for parking on a Bank Holiday. There is a total of c.73 bays available along the road at present.

2.3.4 Where the road meets other minor junctions leading into other car parks or minor roads, there are Traffic Regulation Orders (TROs) present in the form of double yellow line parking restrictions.

Garwood Street

2.3.5 To the east and south of the Site, Garwood Street measures c.85m and serves as a link between Great Jackson Street / City Road East and the A57 Mancunian Way. At its northern end, it forms a priority junction with Great Jackson Street and City Road East, whereas at its southern end it forms a priority junction with the Ring Road leading into Manchester City Centre and the universities.

2.3.6 The road is clearly signed to prevent westbound entry onto the Ring Road. In the northbound direction from the Mancunian Way, there are also many signs indicating the change of speed limit from 50mph on the Mancunian Way to 30mph along the slip road, and then to 20mph along Garwood Street.

2.3.7 Garwood Street comprises a single carriageway of approximately 10m in width and wide footways of up to 5m on both sides of the road. There are some street light columns. The road is also within Zone 4 of the CPZ and has 3 P&D bays adjacent to the eastern boundary of the Site. There are also TROs in the form of double yellow line parking restrictions at the major junctions.

Melbourne Street

2.3.8 To the west and south of the Site, Melbourne Street measures circa 70m and serves as a link between Great Jackson Street and the A57 Mancunian Way. At its northern end, it forms a priority junction with Great Jackson Street, whereas at its southern end it commences at the junction between the end of the Ring Road slip road and Crown Street.

2.3.9 Access from the A57 Mancunian Way is only possible from the slip road coming from Deansgate Interchange, which has been recently improved as part of the Manchester Salford Inner Relief Route (MSIRR) improvements, and the only movement possible is outbound from the Mancunian Way. Speeds reduce from 50mph on the Mancunian Way to 30mph along the slip road onto Melbourne Street, and then to 20mph along Melbourne Street.

2.3.10 Melbourne Street comprises a single carriageway of approximately 7m in width and footways of c.2.5m on both sides of the road. There are some street light columns along both sides. The road is also within Zone 4 of the CPZ and has a number of P&D bays along the road, with TROs in the form of double yellow line parking restrictions along the rest of the carriageway and junctions.

2.3.11 Melbourne Street currently provides pedestrian access to Hulme and other areas to the south of the city centre via a pedestrian and cycle bridge over the Mancunian Way, located at the end of Melbourne Street. This bridge can be accessed within a 250m walk from the centre off the Site.

A57 (M) Mancunian Way

2.3.12 Located to the south of the Site, the A57 (M) Mancunian Way forms part of the inner ring road around Manchester City Centre by connecting Deansgate in the west to Manchester Piccadilly in the east. The road commences at a signalised junction with the A57 Regent Road, A6042 Trinity Way and Water Street, then extends to the east for a length of circa 2.75km before it terminates and continues on as the A635 Ring Road.

2.3.13 In the vicinity of the Site, the A57 (M) Mancunian Way comprises a dual carriageway with a total width of 28m and up to three lanes in each direction. The road is subject to a speed limit of 50mph and is lit by regularly spaced lighting columns.

A56 Chester Road

2.3.14 The A56 Chester Road is one of the main radial routes into Manchester City Centre and provides the main route for outlaying towns such as Altrincham and Sale to gain access to the city. In the vicinity of the Site, Chester Road has an overall carriageway width of around 19m.

2.3.15 Chester Road serves as a bus route into and out of Manchester and also features an on-road cycle lane along its southern side and an unsegregated footway / cycleway on its northern side. Chester Road is subject to a 30mph speed limit and is lit by regularly spaced lighting columns.

2.3.16 There are bus stops on both sides Chester Road, where the closest bus stop to the Site is within a 500m walking distance from the proposed northern Site access. More details regarding bus services are provided in **Section 4** of this report.

Owen Street

2.3.17 Owen Street is located to the north of the Proposed Development. It currently links Deansgate with Great Jackson Street, extending for c.210m.

2.3.18 Owen Street has undergone a major refurbishment as part of the SRF proposals. At the time of writing, the carriageway and eastern footway have been fully completed, with only the western footway to be fully constructed.

2.3.19 The road is privately owned and has barrier access at both ends. The carriageway is c.5.5m wide with vehicular speeds limited by the barrier system acting as a traffic calming measure. The current footway to the east ranges in width, with a minimum of c.2.5m. Street lighting is currently only provided along the eastern footway, as the western footway will be built as part of other plots of the SRF. On-street parking is restricted by double red line markings along the entirety of the road.

River Place

2.3.20 River Place is located to the east of the development and provides access to the Lumiere Building, The Boatmans Building and The Rhine Apartments. The road is a no through route. River Place currently provides an exit route for servicing vehicles coming off Deansgate Square via a barrier system along Pond Street.

2.3.21 The carriageway is two-way and c.5m wide. Footways of c.2m in width are provided along both sides of the road. There are TROs in the form of single yellow line parking restrictions along both sides of the carriageway with double yellow line parking restrictions at junctions.

2.4 Highway Safety

2.4.1 Personal Injury Collision data for the main junctions along the highway network adjacent to the Site has been obtained from the Transport for Greater Manchester reported road collisions database for the most recent five-year period.

2.4.2 The details of the search are contained in **Figure 2.2**, and a breakdown of the information is contained in **Table 2.1** below:

Junction/Link	Slight	Serious	Fatal	Totals
Great Jackson Street	0	0	0	**0**
City Road East	1	0	0	**1**
Garwood Street	0	0	0	**0**
Great Jackson Street / A56 Chester Road	0	1	0	**1**
A56 Chester Road	0	0	0	**0**
City Road East / Medlock Street	1	2	0	**3**
A56 Chester Road / Deansgate	0	0	0	**0**
A56 Deansgate Interchange	11	1	0	**12**
A57 Mancunian Way	9	2	0	**11**
Owen Street	0	0	0	**0**
River Place	0	0	0	**0**
Totals	**22**	**6**	**0**	**28**

Table 2.1 – Personal Injury Collision Data Summary

2.4.3 There has been a total of 28 collisions recorded in the latest five-year period available, which resulted in 22 slight injuries and 6 serious injuries. There are no fatal injuries recorded in the vicinity of the Site.

2.4.4 There have been no collisions recorded in the immediate vicinity of the Site along Great Jackson Street according to TfGM's available data.

2.4.5 On the above basis, it is clear that the safety record is not particularly onerous or indicative of a pre-existing safety problem that would be exacerbated by the Proposed Development. It is therefore concluded that road safety is not a material concern in the context of the Proposed Development.

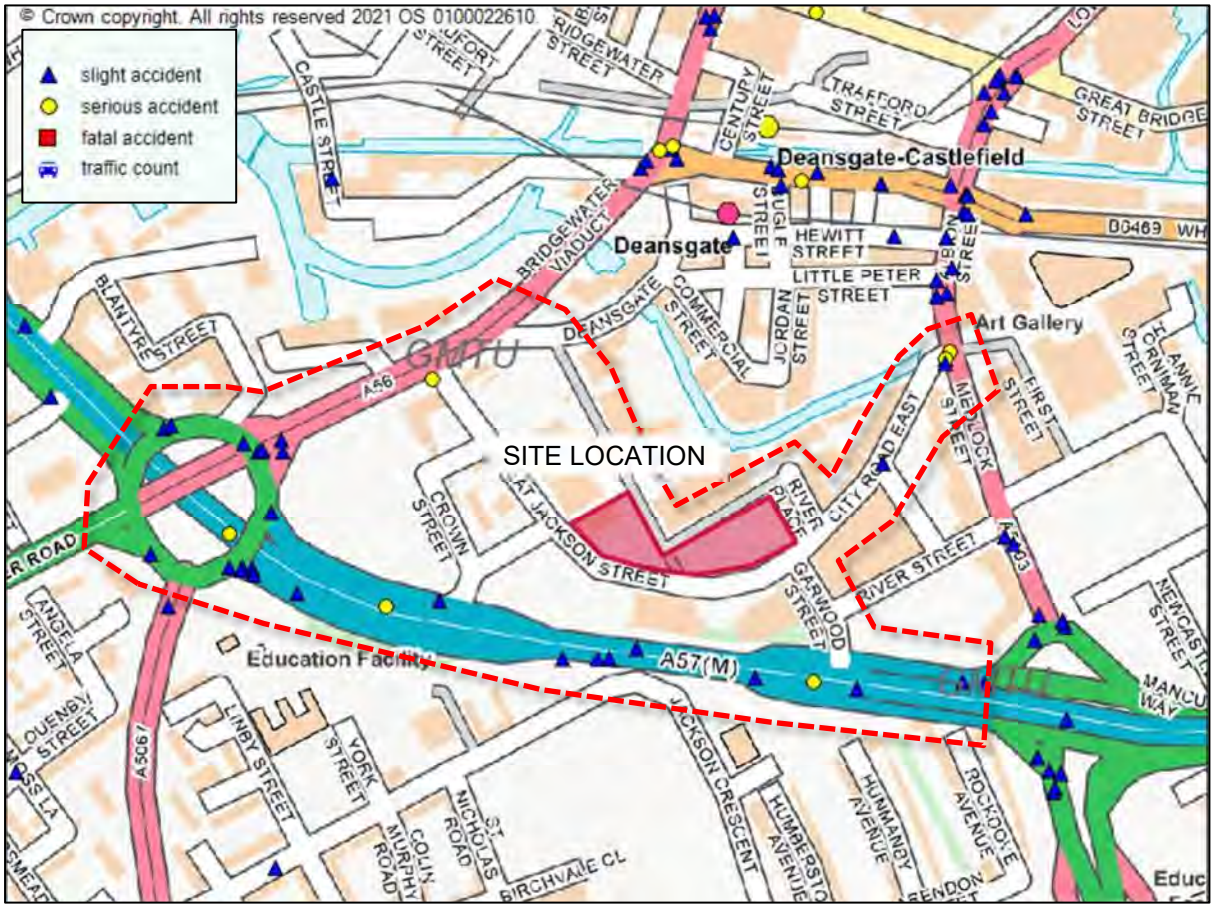


Figure 2.2 – Area Assessed for Personal Injury Collision Data (Source: TfGM Reported Road Accidents)

3.0 Development Proposals

3.1 Phasing

3.1.1 The Proposed Development will be delivered in two phases to deliver the two proposed buildings (F1 and F2).

- Phase A – Construction of Building F2, plus F2 basement car parking, landscaping and access; and
- Phase B – Demolition of the existing building on-Site and the construction of Building F1, plus F1 basement car parking, landscaping and access.

3.1.2 **Figure 3.1** below demonstrates the phasing proposals:



Figure 3.1 –Proposed Development Phasing (Source: Simpson Haugh Architects)

3.2 Development Proposals

3.2.1 The proposals include demolition of existing structures and the construction of a residential-led scheme comprising two buildings of 51 storeys each, together accommodating 988 residential units (Use Class

C3) equally distributed as 494 dwellings at Building F1 and 494 dwellings at Building F2; complete with basement car parking, cycle provision, landscaping, access and other associated works.

3.2.2 The scheme will comprise 158 one-bedroom apartments, 312 two-bedroom apartments, and 24 three-bedroom apartments per tower.

3.2.3 There will also be 296 car parking spaces (circa 30% provision) divided as:

- Building F1 – 148 within three basement levels; and
- Building F2 – 148 within two basement levels.

3.2.4 The Proposed Development will offer 100% cycle parking provision. The spaces will be covered and secure, distributed across the levels of basement car park. These spaces will be complemented by visitor cycle parking, which will be provided at ground floor level, within the landscaped proposals, and will consist of one cycle shelter per building.

3.2.5 The proposed Site layout plan is included in **Appendix A**.

3.3 Vehicular Access Strategy

3.3.1 An access strategy has been prepared to support the Proposed Development. This is summarised below and shown on **Drawing 078616-CUR-00-XX-DR-TP-75001**. The following **Figures 3.2** and **3.3** provide details of the car parks and service vehicles access strategy respectively:

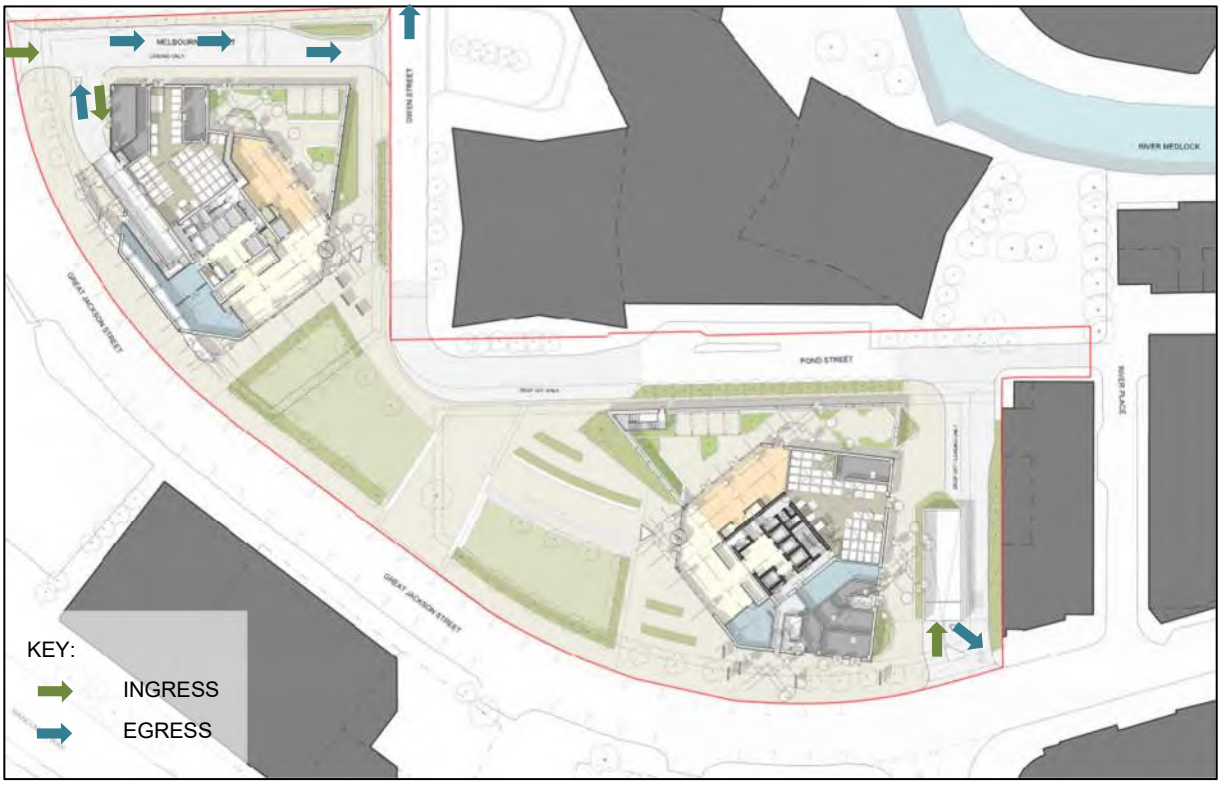


Figure 3.2 – Proposed Car Parks Access Strategy (Source: Simpson Haugh Architects)

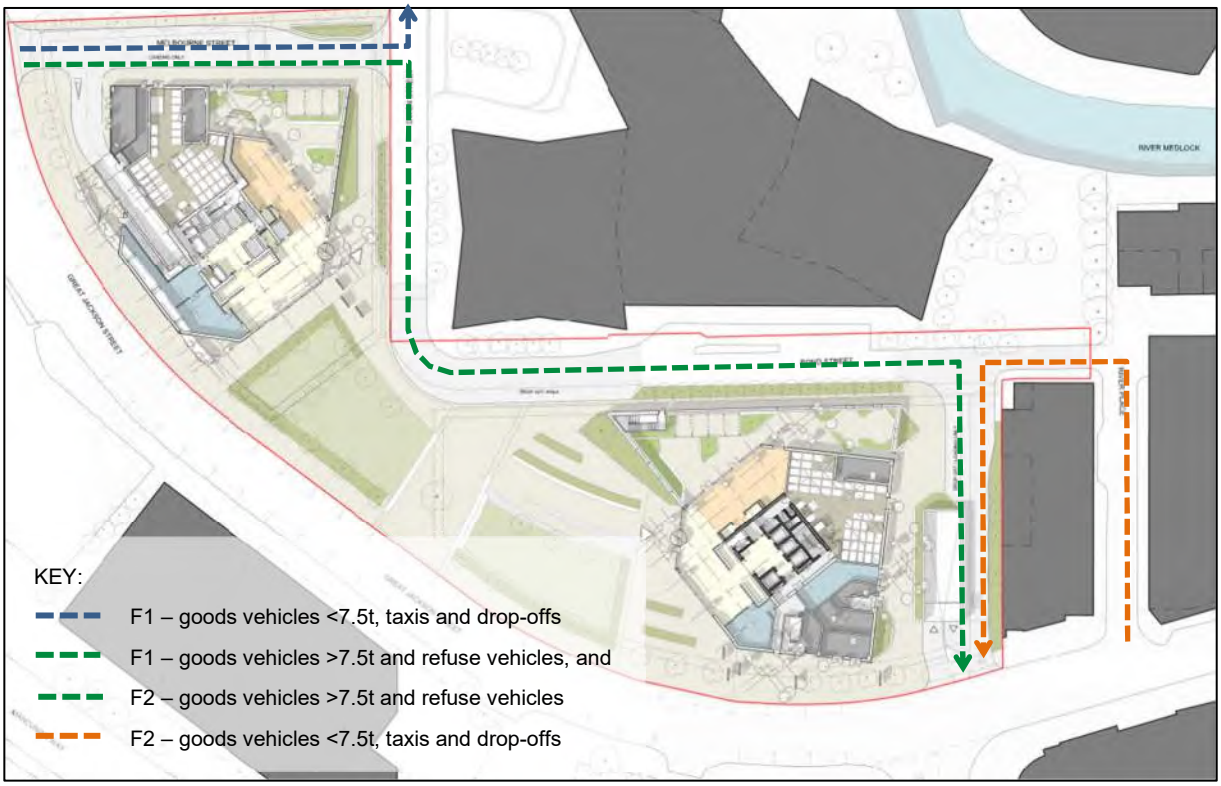


Figure 3.3 – Proposed Service Vehicles Access Strategy (Source: Simpson Haugh Architects)

3.3.2 Two vehicular access points will be created to access the Site, both located off Great Jackson Street.

3.3.3 The eastern access will be located in the vicinity of Garwood Street and will provide access to Phase A (Building F2). This access point will be two way, with the ingress movement limited to access to the basement car park. The egress movement will encompass cars egressing Building F2 car park, and service vehicles leaving the Site from Building F2 loading and drop-off areas and Deansgate Square loading area. Cars egressing the car park will have priority over incoming vehicles along the service road, managed by a stop line.

3.3.4 Small service vehicles, taxis and private vehicles dropping off residents of the development will access the Building F2 loading and drop-off area via River Place, turning left at the end to Pond Street and left again onto the loading / drop-off area. This short section of Pond Street will have its direction of travel reversed, so vehicles will only be allowed to travel westbound, from River Place to Pond Street. Access will be controlled by droppable bollards located 10m away from the public highway. The remainder of Pond Street will remain one-way eastbound as per the current arrangement.

3.3.5 The western access will be located in the vicinity of Melbourne Street and will provide access to Phase B (Building F1) car park and loading and drop-off areas. This access will be ingress only. Vehicles leaving Building F1 would turn left at the junction with Owen Street, returning to A56 Chester Road via Deansgate. To facilitate access for servicing vehicles, it is proposed that one P&D parking space will be relocated to the north of the access along Great Jackson Street. This is shown on **Drawing 078616-CUR-00-XX-DR-TP-75001.**

3.3.6 Owen Street will be reconfigured as part of the development proposals and will no longer end at a priority junction with Great Jackson Street. This junction will be replaced with landscaping and a pedestrianised area. Following completion of the development, Owen Street will end to the south at the bend providing access to Pond Street. Owen Street will become one-way southbound only, past the proposed junction with the new road to access Building F1. This arrangement matches the SRF proposals and aspirations for this area.

3.3.7 Owen Street, Pond Street and the proposed access roads as part of the Proposed Development will not be offered for adoption and will remain private. Barriers will control access to the area and also to the different plots. These will also act as traffic calming measures, reducing vehicular speeds along the Site access roads.

3.3.8 The proposed eastern junction has been designed to achieve visibility requirements of 2.4m x 25m (20mph) in line with the Manual for Streets (MfS) guidelines. The visibility splays will impact approximately seven P&D parking bays, which will be relocated along Great Jackson Street. Both the visibility requirements and the relocated spaces are shown on **Drawing 078616-CUR-00-XX-DR-TP-75001.**

3.3.9 All P&D parking bays affected by the Proposed Development will be relocated along Great Jackson Street, resulting in no loss of P&D parking spaces.

3.3.10 **Drawing 078616-CUR-00-XX-DR-TP-05001** illustrates the swept path assessment of a large car accessing the car parks of both buildings.

3.4 Pedestrian & Cycle Access Strategy

3.4.1 The Site layout has been designed to promote walking and cycling. Cyclists would be able to access the Site in a similar manner to vehicles, as the cycle stores are located within the car parks. Moreover, as a result of the Proposed Development, the surrounding highway infrastructure would also benefit from a more pleasant environment with landscaping and the provision of trees, improved footways and the provision of public realm within the Site. This would ensure a safe physical environment for pedestrian and cyclists to promote active travel for commuting, leisure and recreation.

3.4.2 It is envisaged that pedestrian and cycle friendly routes, which respond to the principal north-east and south-west alignment of streets, would be provided to establish safe and attractive alternative routes to Great Jackson Street and A56 Chester Road, therefore enhancing connectivity / integrating between the city centre and communities to the south. Furthermore, these routes within the Site will enhance the connectivity with Hulme via the existing pedestrian and cycle bridge over the A57 Mancunian Way.

3.4.3 As stated in **Section 2.3**, the surrounding roads have footways available for pedestrian use, and the carriageways are well lit by street lighting. At the major junctions near the Site, there are signalised crossing points, pedestrian refuge islands, dropped kerbs and tactile paving to aid pedestrians.

3.5 Car and Cycle Parking

3.5.1 It is proposed that there will be 296 car parking spaces provided for the future occupants of the Site; these will be split equally between the two aforementioned phases of Proposed Development, resulting in:

- Building F1 – 148 spaces within three basement levels; and
- Building F2 – 148 spaces within two basement levels.

3.5.2 This represents c.30% car parking provision to reflect the highly accessible location of the Site in terms of opportunities for active and sustainable travel. This level of provision, which is similar to other city centre schemes, supports the sustainability ethos of the Proposed Development and Manchester City Council's aim of making Manchester a zero-carbon city by 2038.

3.5.3 Furthermore, the proposed car parking provision is 80 spaces less than the number identified for Plot F in the SRF. The proposed parking ratio is c.30%, as opposed to 40% identified in the SRF.

3.5.4 The development proposals seek to reach a balance by providing sufficient provision to meet demand from future residents and encouraging sustainable travel. The experience of Renaker Build Limited has shown that parking provision results in a wider demographic of resident, therefore resulting in less transient and more sustainable communities (e.g. young families and owner occupiers).

3.5.5 Car use is also largely focussed on weekends, as the majority of residents in such locations work in the city centre. On this basis, trip generation is unlikely to have a significant effect on the local highway network during the week.

3.5.6 There will be up to 20% demand-led Electric Vehicle Charge (EVC) provision (7kw each). Spaces will be future proofed with containment channels that enable cable connections to be installed as and when required.

3.5.7 There will also be 29 accessible spaces provided on site, which equates to approximately 10% provision. This exceeds Manchester City Council's minimum requirement of 5% that was provided during scoping discussions.

3.5.8 Access to Phase A (Building F2) will be via a two-way ramp, whilst Access to Phase B (Building F1) will be provided via one-way ramps. The ramps will be equipped with traffic signals to provide safe and efficient means of access for vehicles, including cyclists.

3.5.9 At the car park accesses at ground floor level, there is space for two vehicles to wait. Vehicles accessing the car park from street level will have priority over vehicles exiting the car park by having a green light to access the car park by default, minimising the chances of queueing vehicles at street level.

3.5.10 Consideration has also been given to waiting space outside the path of vehicles travelling through the car park.

3.5.11 **Drawings 078616-CUR-00-XX-DR-TP-05003 / 05004 and 05005** detail the swept path analysis along the car park layout at the different basement levels.

3.5.12 Cycle parking for residents will be provided in the car parks in a safe, secure and weatherproof environment. The level of cycle parking for the Proposed Development will be 100% provision (1 space per unit).

3.5.13 Visitor cycle parking will be provided at ground floor level, within the landscaped proposals, and will consist of one cycle shelter per building.

3.6 Servicing and Delivery Access

3.6.1 Buildings F1 and F2 will have separate servicing strategies to minimise impacts on any one area. Movements would be as follows:

- Building F1 service vehicles would all arrive via a new junction opposite Melbourne Street. This would be an ingress only junction. All cars and smaller service vehicles would then exit via Owen Street to the north. This will avoid F1 and F2 traffic combining on the F2 service road.
- Building F2 small service vehicles and box vans will enter via River Place, turn west onto Pond Street and south onto the F2 service road.
- Building F2 refuse vehicles and larger service vehicles will arrive via Owen Street or the F1 new access at Melbourne Street once constructed.

3.6.2 The proposed loading areas will also serve as drop-off for taxis and other vehicles.

3.6.3 Deansgate Square to the north would continue to use Owen Street North for small parcels and taxis. Refuse and larger vehicles would use Pond Street and the F2 service road.

3.6.4 The loading bay to the west of Building F1 and the main service point for this building is proposed to be 18m long to cater for a wide range of vehicles. The main loading bay for Building F2 is located to the northeast of the building and is 12m long. A third loading bay of 18m of length is proposed between both buildings along Pond Street. This third loading bay is envisaged to act as an overspill bay in case both main loading areas are at full capacity.

3.6.5 **Drawing 078616-CUR-00-XX-DR-TP-05002** detail the swept path assessment of a large refuse and 7.5t rigid heavy goods vehicle (HGV) accessing and egressing the Site in a forward gear.

4.0 Accessibility by Sustainable Modes of Travel

4.1 Introduction

4.1.1 A key element of national and local policy is to ensure that new developments are located in areas where alternative modes of travel are available. It is important to ensure that developments are not isolated, but are located close to complementary land uses. This supports the aims of integrating planning and transport, providing more sustainable transport choices, and reducing overall travel and car use.

4.1.2 The accessibility of the Proposed Development is considered in this context for the following modes of travel:

- Pedestrian Accessibility;
- Cycle Accessibility; and
- Public Transport Accessibility.

4.2 TRACC Analysis

4.2.1 Accessibility has been assessed through the use of TRACC Software. TRACC is the leading multi-modal transport accessibility tool which was developed in conjunction with the Department for Transport (DfT), local authorities and transport planners.

4.2.2 It is designed to calculate travel time using a multitude of public transport and road travel modes to give accurate journey times from many origins to many destinations in one calculation. The software covers a wide range of transport modes including walking, cycling, driving and public transport.

4.2.3 TRACC analysis has been undertaken to establish the pedestrian, public transport and cycle accessibility of the Site and demonstrate the connectivity of the Site to adjacent areas using these modes of transport.

4.3 Pedestrian Accessibility

4.3.1 Research has indicated that acceptable walking distances depend on a number of factors, including the quality of the development, the type of amenity offered, the surrounding area, and other local facilities. The Chartered Institution for Highways and Transportation (CIHT) document entitled 'Providing for Journeys on Foot' suggests walking distances which are relevant to this planning application. These are reproduced in **Table 4.1**.

	Town Centres (m)	Commuting/School/ Sightseeing (m)	Elsewhere/Local Services (m)
Desirable	200	500	400
Acceptable	400	1,000	800
Preferred Maximum	800	2,000	1,200

Table 4.1 – CIHT Suggested Acceptable Walking Distances

4.3.2 To assist in summarising the accessibility of the Site by foot, an indicative pedestrian catchment plan has been produced. **Plan 078616-CUR-00-XX-RP-TP-06001** shows distances of 500m, 1,000m and 2,000m which are termed 'Desirable', 'Acceptable' and the 'Preferred Maximum' by the CIHT for commuting trips.

4.3.3 The pedestrian catchment plan confirms that the Site is well located in relation to local services and facilities within Manchester. Most notably, several bus stops along the A56 Chester Road and A5103 Medlock Street are located within the 500m walking catchment. Future residents can also access the Procters Young Peoples Centre in Hulme, several office buildings east of the Site, the Deansgate Locks Premier Inn hotel, the Manchester School of Acting, several small coffee shops, and the Castlefield Gallery.

4.3.4 The First Street development comprising a Sainsbury's, INNSIDE hotel, HOME theatre, public houses, several bars and restaurants is also within the 500m walking catchment. Once the Crown Street Phase 2 development is completed, a primary school will be available to residents within 500m of the Site.

4.3.5 Within 1,000m of the Site, more bus stops and tram stops are accessible for residents of the Site. The Deansgate Railway Station and the Deansgate-Castlefield Metrolink station can be accessed within an 8-minute walk (or 600m walk distance) north of the Site. The entirety of the leisure / entertainment in the Deansgate and Spinningfields areas is also accessible, with Deansgate Locks fronting Whitworth Street West, the Bridgewater Hall and Manchester Central Convention Complex, Manchester Great Northern (comprising the ODEON cinema, bowling alley, and food/drink establishments), Science and Industry Museum and Beetham Tower.

4.3.6 To the east of the Site, the Oxford Road rail station is accessible within 1,000m, along with the Palace Theatre and more entertainment facilities. The Oxford Road Corridor is accessible too, and it is known as the busiest bus corridor in Europe, connecting Manchester City Centre to the surrounding neighbourhoods including Ardwick, Hulme, Longsight, Moss Side and Rusholme. Along the corridor are many pharmacies, a Tesco and Sainsbury's store, food and drink outlets, and health clubs.

4.3.7 To the south of the Site, the Manchester Metropolitan University campus lies within the 1,000m catchment, which includes student accommodation along with places of worship. There are also several primary schools, Hulme Park and St Georges Park.

4.3.8 At 2,000m beyond the Site, the whole of Manchester City Centre including the Central Business and Retail Districts, Manchester Piccadilly, Piccadilly Gardens, Market Street, Shudehill, the Northern Quarter, Chinatown, Salford Central, the outskirts of Ordsall and Old Trafford, Hulme, Moss Side, Brunswick, Manchester Science Park and the University of Manchester campus are all within reach. the Site is strategically situated in Manchester City Centre such that the surrounding facilities can benefit future residents of all ages.

4.3.9 As part of the Manchester and Salford Inner Relief Route (MSIRR) works programme, the Mancunian Way / A56 Chester Road roundabout (Deansgate Interchange) has been recently improved to offer capacity improvements and also improved pedestrian and cycle linkages, which will therefore be of benefit to residents of the development when routing to / from Manchester City Centre.

4.3.10 The topography of the local area is generally flat and conducive to pedestrian trips, and the area benefits from natural surveillance from the commercial and residential properties that abut all the main walk routes.

4.3.11 The Site is therefore considered to be highly accessible by foot with various employment, education, health, retail and leisure facilities within walking distance of the Site. The Site is also conveniently located to various public transport routes and interchanges.

4.4 Cycle Accessibility

4.4.1 The Greater Manchester Cycling Strategy has been introduced to set out a regional approach to prioritise future investment in cycling and associated infrastructure. Greater Manchester's vision is of a city "fit for the future" – a healthy, safe, sustainable city where people want to live, work and visit and where a well-established cycling culture is integral.

4.4.2 In order to assist in assessing the accessibility of this Site by cycle, **Plan 078616-CUR-00-XX-RP-TP-06002** presents an 8km cycle catchment for the Site. The 8km cycling distance refers to a recommendation by Cycling England in the document 'Integrating Cycling into Development Proposals' (2009).

4.4.3 The 8km catchment extends as far as Blackley in the north, Fairfield to the east, Didsbury in the south and Trafford Park to the west.

4.4.4 There are multiple local on and off-road routes that surround the Site, for example; along Great Jackson Street and City Road East, the A56 Chester Road, Whitworth Street West and Medlock Street and adjacent to the Bridgewater Canal, as shown on **Figure 4.1** below:

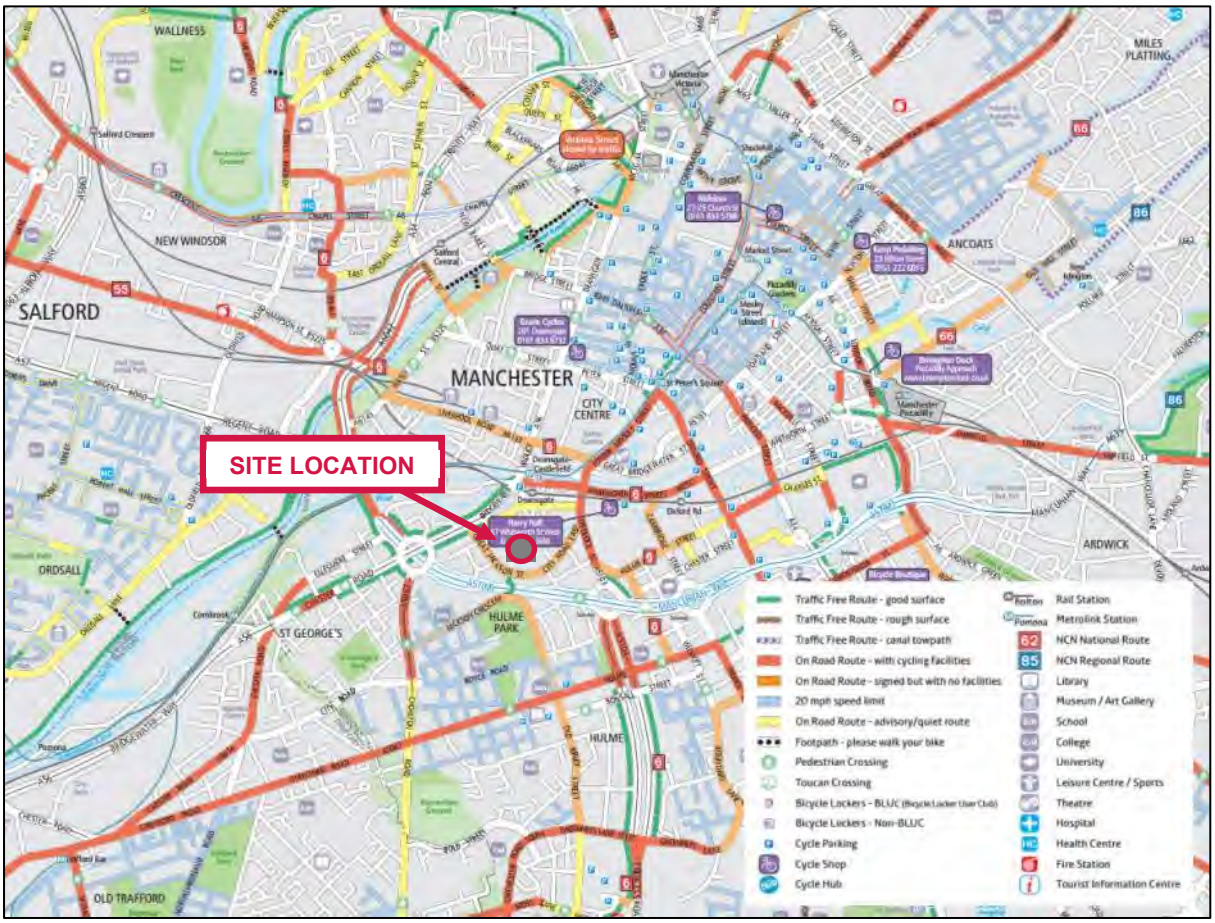


Figure 4.1 – Local Cycle Routes (Source TfGM)

4.4.5 Some of the most attractive cycle routes in the area lie alongside the waterway network. There are cycle routes alongside both the Bridgewater Canal and the River Irwell that are easily accessible from the Site. Local routes in the vicinity of the Site have been developed to include segregated cycle lanes as part of the Oxford Road Bus Priority Package. The segregated cycle lanes are part of the city's new high- quality cycle infrastructure to improve cyclist safety along the Oxford Road Corridor.

4.4.6 National Cycle Route 6 is located some 650m to the north of the Site on Liverpool Road. Route 6 passes through Watford, Luton, Milton Keynes, Northampton, Market Harborough, Leicester, Derby, Nottingham, Worksop, Sheffield, Manchester, Blackburn, Preston, Lancaster, Kendal and Windermere, and will connect London and Threlkeld in Cumbria when complete. More locally, the route connects the Site to areas in the north west of Greater Manchester such as Radcliffe, and to the south west including areas such as Chorlton-cum-Hardy.

4.4.7 The local cycle network shown above is also a part of Greater Manchester's cycling and walking infrastructure proposal, named the "Bee Network". The Bee Network comprises signed routes that mark the most direct and pleasant way to navigate an area on foot or by bike.

4.4.8 The site is surrounded by Beeways and confirmed infrastructure improvements, as illustrated in **Figure 4.2**, allowing future residents and visitors that cycle to benefit from better safety and quality of commute.

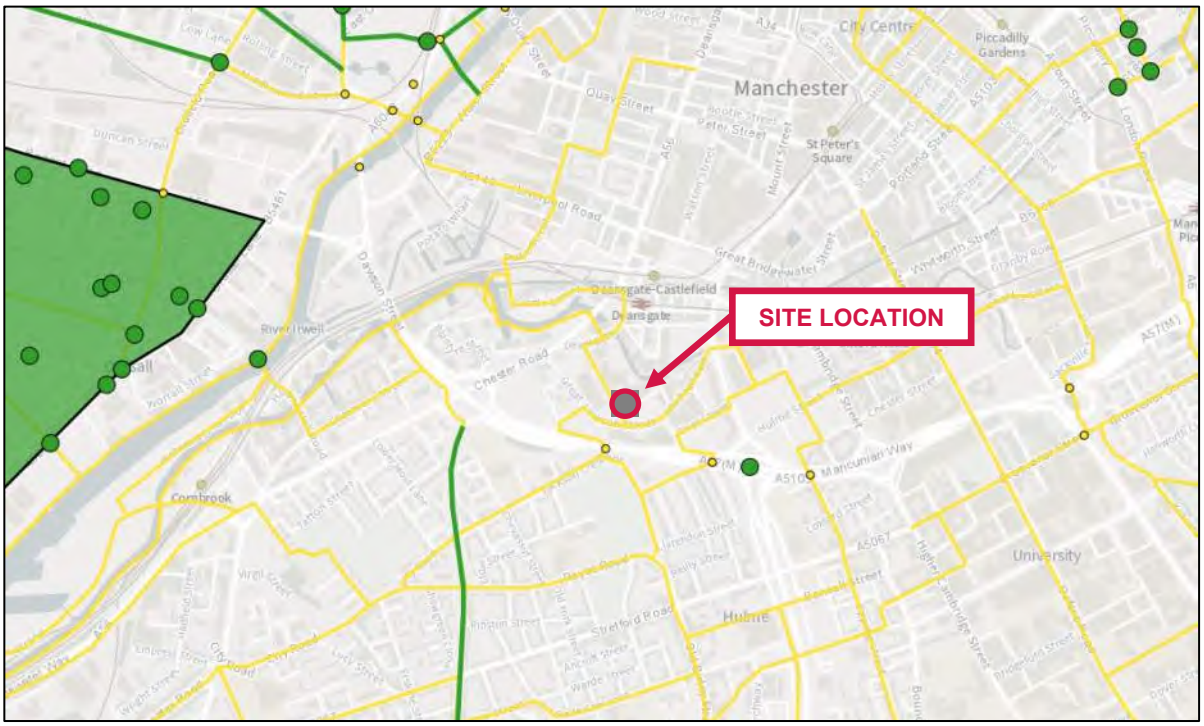


Figure 4.2 – Proposed Bee Network (Source: MappingGM)

4.4.9 As mentioned earlier, there will be 100% provision of secure, covered cycle parking spaces provided at the Proposed Development, thereby encouraging this mode of transport.

4.4.10 The Site is therefore considered to be highly accessible by bicycle, and would provide a realistic alternative to travel by car.

4.5 Public Transport Accessibility

4.5.1 Developed by Transport for Greater Manchester, Greater Manchester Accessibility Levels (GMAL) are a measure of the accessibility of a point to both the conventional public transport network (i.e. bus, Metrolink and rail) and Greater Manchester's Local Link (flexible transport service), considering walk access time, service availability, and average waiting time. The method is essentially a way of measuring the density of the public transport provision at any location within the Greater Manchester region.

4.5.2 The accessibility index score is categorised into eight levels (1 to 8), where level 8 represents a high level of accessibility (described as 'excellent') and level 1 represents a low level of accessibility (described as 'very poor'). the Site is located in an area with a GMAL rating of 8, with excellent accessibility. This is a particular strength of the Site, which offers strong multi-modal links opportunities.

4.5.3 Accessibility by bus, rail and Metrolink are considered further below.

Bus Accessibility

4.5.4 Guidance from the Chartered Institution of Highways and Transportation (CIHT) document *'Buses in Urban Developments'* (2018) indicates that ideally, a bus stop should be located within the following from a new development based on its location and the number of services:

Situation	Maximum Walking Distance (m)
Core bus corridors with two or more high-frequency services	500
Single high-frequency routes (every 12 minutes or better)	400
Less frequent routes	300
Town/city centres	250

Table 4.2 – CIHT Maximum Suggested Walking Distances to Bus Stops

4.5.5 A distance of 400m, which equates to an approximate 5-minute walk, is also commonly cited as a benchmark for access to local bus services.

4.5.6 The nearest bus stop is located to the north-east of the Site on Medlock Street, within a c.400m walk, thereby at the CIHT's 400m walk distance threshold. Future residents could also walk c.550m to the bus stops along Whitworth Street West and opposite the Deansgate rail station with more services and the number 2 Free Bus. **Table 4.3** details the bus services that call at these stops and their associated frequencies:

Bus Service	Route	Peak Hourly Frequency		
		Mon – Fri	Sat	Sun/Hols
From Medlock Street				
84	Manchester – Whalley Range – Chorlton – Chorlton Green	Hourly	Hourly	-
256	Manchester – Hulme – Stretford – Davyhulme – Flixton	10 mins	15 mins	30 mins
733	Cheetham Hill – Whalley Range High School (school bus)	1 in the AM 1 in the PM	-	-
From Whitworth Street West				
255	Manchester – Old Trafford – Stretford – Urmston – Flixton – Partington	30 mins	30 mins	Hourly
291	Manchester – Old Trafford – Trafford Park – intu Trafford Centre	30 mins in the early AM	-	-

Bus Service	Route	Peak Hourly Frequency		
		Mon – Fri	Sat	Sun/Hols
X50	Manchester – Old Trafford – intu Trafford Centre	10 mins	10 mins	10 mins
X58	Manchester – Davyhulme – Flixton Express	1 in the AM	-	-

Table 4.3 – Summary of Bus Service Frequencies

4.5.7 As shown in **Table 4.3**, there is a reasonably good frequency of bus services (in combination) stopping close to the Site which provide convenient access to locations such as The Trafford Centre, Manchester City Centre, Urmston and Stretford, amongst others.

4.5.8 Furthermore, the Site is situated within a c.550m walking distance to Whitworth Street West, which is one of the calling points of the number 2 Manchester free bus route. The free bus is a service providing direct access to the Deansgate and Oxford Road railway stations along with key city centre locations. The free bus frequencies are detailed in **Table 4.4**:

Free Bus Service		Peak Frequency		
		Weekday	Saturdays	Sun/Hols
1	Piccadilly – Piccadilly Gardens – Chinatown – Market Street – Deansgate – Opera House – Albert Square – New York Street – Central Coach Station circular	07:00 – 22:00 Every 10 mins (Every 15 mins after 18:30)	08:30 – 22:00 Every 10 mins (Every 15 mins after 18:30)	09:30 – 18:00 Every 12 mins
2	Piccadilly – Oxford Road – Deansgate – Manchester Victoria – Shudehill – Northern Quarter circular	06:30 – 22:00 Every 10 mins (Every 15 mins after 18:30)		
2 (peak only)	Piccadilly – Oxford Road – Deansgate – Salford Central – Manchester Victoria – Shudehill – Northern Quarter circular	06:30 – 09:10 and 16:00 – 18:30	-	-

Table 4.4 – Free Bus Services

4.5.9 Overall, the Site is well served by bus. the Site also benefits from the free bus service that operates along Whitworth Street West.

Rail Accessibility

4.5.10 The Chartered Institution of Highways and Transportation (CIHT) document, *'Planning for Public Transport in Developments'* notes that those travelling to a site by rail will typically be prepared to walk further to the site than those travelling by bus, with a preferred distance of 800m.

4.5.11 The nearest railway station is Deansgate Railway Station, located approximately 600m to the north of the Site. A summary of rail services from the station is summarised in **Table 4.5**:

Destination	Service Frequency		
	Peak Weekday	Peak Saturday	Peak Sunday
Blackpool North	2	1	1
Bolton	3	2	1
Liverpool Lime Street	2	2	1
Preston	2	1	1
Southport	2	2	1
Stockport	1	1	1
Warrington Central	2	2	1
Wigan	3	3	3

Table 4.5 – Summary of Rail Services from Deansgate Railway Station

4.5.12 The rail services that run to Deansgate Railway Station provide access to various locations across the North West of England, including, Liverpool, Manchester Airport, Southport and Manchester Oxford Road, amongst others. Trains run throughout the day and evening 7 days a week.

4.5.13 In addition to the locations noted above, they also serve key local destinations such as Bolton, Wigan, Preston, Buxton, Birchwood, Widnes and Warrington.

4.5.14 A short connection from Deansgate to Manchester Oxford Road or Manchester Piccadilly facilitates for journeys to destinations further afield such as London, Nottingham, Norwich, Leeds, Hull and Sheffield.

4.5.15 It is therefore considered the Site is highly accessible via rail.

Metrolink (Light Rail) Accessibility

4.5.16 There are Metrolink stops located at Deansgate-Castlefield (c.550m walking distance north of the Site). **Table 4.6** outlines the frequencies of services that can be utilised at this Metrolink stop:

Route	Monday to Thursday	Friday and Saturday	Sundays/Hols
[Blue Line] Eccles or MediaCity UK – Ashton-Under-Lyne	6-minute frequency between 05:53 and 23:03	6-minute frequency between 05:53 and 00:03	6-minute frequency between 06:53 and 22:53
[Purple Line] Altrincham – Piccadilly	12-minute frequency between 05:49 and 23:37	12-minute frequency between 05:49 and 00:37	12-minute frequency between 06:49 and 23:37
[Green Line] Altrincham – Bury	12-minute frequency between 05:49 and 23:01	12-minute frequency between 05:49 and 00:01	12-minute frequency between 06:49 and 23:01
[Pink Line] East Didsbury – Rochdale	12-minute frequency between 05:50 and 23:14	12-minute frequency between 05:50 and 23:50	12-minute frequency between 06:46 and 22:46
[Navy Line] Victoria – Manchester Airport	12-minute frequency between 05:57 and 23:09 20-minute frequency between 03:00 and 06:00	12-minute frequency between 05:57 and 00:09 20-minute frequency between 03:00 and 06:00	12-minute frequency between 06:52 and 23:04 20-minute frequency between 03:00 and 07:00

Table 4.6 – Summary of Metrolink Services

4.5.17 The Metrolink services provide access to the Site seven days a week with trams running from a variety of locations within Manchester and the wider area between 6 and 20 minutes all day and into the evening.

4.5.18 It is therefore considered that the Site is highly accessible via Metrolink.

4.6 Summary

4.6.1 The above sections have demonstrated that the site is highly accessible by active and sustainable modes of transport; the surrounding area exhibits excellent levels of pedestrian and cycling infrastructure, and there are a number of public transport opportunities within walking distance of the site.

4.6.2 The site is well located to take advantage of the excellent existing public transport facilities, including bus, Metrolink and rail, in addition to walking and cycling opportunities, which will therefore provide viable alternatives to travel by car.

5.0 Highway Impact Assessment

5.1 Introduction

5.1.1 This section of the note sets out the proposed study area as well as the trip rate analysis of the Proposed Development during the weekday AM and PM peak hours, and the subsequent distribution of these trips on the surrounding highway network.

5.1.2 The assessment is based on both phases of the development completed, encompassing a total of 988 apartments.

5.1.3 The TRICS database (v. 7.8.4) has been used to determine the number of trips that could be generated. TRICS is the industry recognised tool for calculating the anticipated future trip demand of a Proposed Development. The database contains multi-modal surveys of varying land uses in multiple destinations across the UK.

5.2 Assessment Years and Traffic Growth

5.2.1 The Proposed Development is expected to be completed, in full, by December 2027. The impact of the Proposed Development upon the local road network in future years has been discussed with MCC Highways and a future year of 2028 has been agreed.

5.2.2 MCC Highways Officers have also agreed that base flows for the 2028 year can be extracted from the Crown Street Phase 2 development, also part of the same SRF, which was approved last year. This data was used to support various major developments in this part of Manchester in recent years.

5.2.3 The extracted traffic flows from the Crown Street Phase 2 are robust and consider a 2028 assessment year with growth and all committed development over the past 5-6 years. Furthermore, new committed development has been added to create another scenario to consider all the committed development listed below in **Section 5.3**.

5.2.4 The commissioning of new survey data was considered and discussed with MCC Highways. It is Curtins' view that traffic surveys in the immediate vicinity of the site would not be representative of typical traffic conditions, as the Melbourne Street junction opposite the site is currently closed due to construction work. There is also a high level of general construction activity in the local area related to adjacent sites. These factors would significantly reduce the reliability of any new survey data.

5.2.5 The extracted traffic flows from the Crown Street Phase 2 TA are robust and consider a 2028 assessment year with background traffic growth and committed developments over the past 5-6 years. These flows have been supplemented with additional committed developments. The Crown Street

Phase 2 development was approved last year, therefore the use of this data from this recent consent is considered reasonable and appropriate.

5.2.6 **Appendix B**, to the rear of this report, contains **Figures 1** and **2** the 2028 Base scenario for both AM and PM peaks.

5.3 Committed Development

5.3.1 The following committed developments situated in proximity to the Site have been taken into account; this has been agreed with Highways Officers at Manchester City Council:

- **2-4 Chester Road** (application reference: 113870/FO/2016);
- **Deansgate Square** (application reference: 111719/FO/2016/C1);
- **Crown Street Phase 1** (application reference: 119806/FO/2018);
- **Crown Street Phase 2** (application reference: 126668/FO/2020);
- **Viadux** (application reference: 126868/JO/2020);
- **10-12 Whitworth Street** (application reference: 111003/FO/2016/C1);
- **Transition** (application reference: 116850/FO/2017);
- **1 Alpha Place** (application reference: 120113/FO/2018);
- **Plot 9, First Street** (application reference: 125833/FO/2019);
- **325 Deansgate** (application reference: 125804/FO/2019);
- **Hotspur Press** (application reference: 120635/FO/2018);
- **Plot 11, First Street** (application reference: 125573/FO/2019);
- **One City Road** (application reference: 128002/FO/2020);
- **Plot G, Great Jackson Street** (application reference: 129273/FO/2021); and
- **2-4, Whitworth Street** (application reference: 126308/FO/2020).

5.3.2 Following a review of the approved TA reports for the above developments, it was shown that only a small number of committed developments generated a significant number of two-way trips in the AM and PM peak hours, with a large number generating negligible or zero car trips.

5.3.3 The AM and PM 2028 Baseline flows were obtained from the Crown Street Phase 2 planning application (application reference: 126668/FO/2020), which include all the committed development listed above with the exception of Crown Street Phase 2's school (application reference: 126668/FO/2020), and Transition (application reference: 116850/FO/2017).

5.3.4 The development traffic from the planning application Transition and the school from Crown Street Phase 2 were added to complete all committed development in the area.

5.4 Trip Generation

Existing Trip Generation

5.4.1 As noted in **Section 2.2** earlier, the Site is currently operated as a surface car park / construction compound.

5.4.2 The car park is located to the west of the Site (Building F1) and occupies land formerly used as a car showroom and provides c. 68 parking spaces. The construction compound is located to the east of the Site (Building F2) and is currently in use accommodating materials in storage, contractor's welfare and some vehicular parking.

5.4.3 The existing car park is currently used by contractors accessing the neighbouring construction Site. On this basis, and for purposes of the assessment, it has been assumed that the car becomes fully occupied in the AM peak and empties in the PM peak. This equates to 68 arrivals in the AM and 68 departures in the PM. On-site observations by Curtins has shown that the site and adjacent roads in the local area are busy with construction related traffic.

5.4.4 Additionally, the construction compound can generate c.6 two-way trips in the AM and PM peaks, based on observations made on-site by Curtins.

5.4.5 Overall, based on the above analysis, it has been established that the current trip generation of the Site is 74 trips in each of the peak hours, summarised in the following **Table 5.1:**

Use	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arrive	Depart	Total	Arrive	Depart	Total
Car Park	68	0	68	0	68	68
Construction Compound	3	3	6	3	3	6
Total	**71**	**3**	**74**	**3**	**71**	**74**

Table 5.1 – Existing Trip Generation

5.4.6 Both the car parking and construction compound operations would cease once the Proposed Development is constructed, and as such, the vehicular arrivals and departures in the AM and PM peak hours can be deducted from the residential trip generation.

5.4.7 Notwithstanding, the area is currently accommodating a number of large construction sites, including a cement processing plant opposite the development. These works generate a considerable amount of traffic including construction workers accessing the plots and a large number of HGVs. These traffic flows have not been considered for the purpose of this report, providing a very robust approach.

Proposed Development Trip Generation

5.4.8 In order to derive the trips associated with the Proposed Development, the Trip Rate Information Computer System (TRICS) database (multi-modal) has been interrogated for similar Sites. The selection criteria used is as follows:

- Residential Sites (Flats Privately Owned);
- All Sites in England excluding Greater London; and
- Sites located on Edge of Town Centre location.

5.4.9 **Table 5.2** below summarises the person trip rates derived from the TRICS database. The full TRICS output is provided in **Appendix C** at the rear of this document.

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arrive	Depart	Total	Arrive	Depart	Total
Person Trip Rate	0.099	0.529	0.628	0.435	0.191	0.626
Person Trips	98	522	620	430	189	618

Table 5.2 – Person Trip Generation (Residential – 988 Units)

5.4.10 **Table 5.1** confirms that the Proposed Development would generate 620 person trips in the AM peak and 618 person trips in the PM peak.

5.4.11 In order to derive the mode share for the Proposed Development, journey to work data by mode based on the 2011 Census for the middle super output area (MSOA) Manchester 060 as origin has been used.

5.4.12 A review of the Census data confirmed that 28.41% of the journeys to/from the Proposed Development would be undertaken as a car driver. This is considered a worst-case assessment as travel patterns in the city centre are increasingly made by active and sustainable modes of travel.

5.4.13 **Table 5.3** summarises the mode share data for Manchester 060 obtained from the 2011 Census:

Mode	Number of People	Percentage
Public Transport	493	15.66%
Car Driver	**895**	**28.41%**
Motorcycle, scooter or moped	1	0.03%
Passenger in a car or van	54	1.71%
Bicycle	62	1.97%
On foot	1,636	51.94%
Others	9	0.29%
Total	**3,150**	**100%**

Table 5.3 – Mode Share

5.4.14 Using the above mode share, the likely residential trips have been summarised in **Table 5.4**:

Mode	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arrive	Depart	Total	Arrive	Depart	Total
Public Transport	15	82	97	67	30	97
Car Driver	**28**	**148**	**176**	**122**	**54**	**176**
Car Occupant	0	0	0	0	0	0
Motorcycle	2	9	11	7	3	11
Bicycle	2	10	12	8	4	12
On Foot	51	271	322	223	98	321
Other	0	2	2	1	1	2
Total	**98**	**522**	**620**	**430**	**189**	**618**

Table 5.4 – Residential Trips by Travel Mode

5.4.15 Using the above mode share, the Proposed Development would generate 176 two-way vehicle trips in the AM and PM peaks. There would also be a significant amount of public transport passengers and those travelling on foot.

5.4.16 It is envisaged that the majority of public transport passengers would be directed towards Deansgate Castlefield tram and rail stop, with those travelling by bus heading to the direction of the bus stops along the A56 Chester Road or Medlock Street. Hence, the forecast number of trips would distribute between the various rail, Metrolink and bus services available. Whereas pedestrians are likely to travel into Manchester city centre to access the central business district, retail, leisure, and educational opportunities.

Net Trip Generation

5.4.17 **Table 5.2** demonstrates the net vehicular impact of the Proposed Development, with consideration given to the existing uses traffic and proposed residential traffic.

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arrive	Depart	Total	Arrive	Depart	Total
Existing Situation	71	3	74	3	71	74
Proposed Development	28	148	176	122	54	176
Net Impact	**-43**	**+145**	**+102**	**+119**	**-17**	**+102**

Table 5.5 – Net Vehicular Impact

5.4.18 **Table 5.2** confirms that the Proposed Development would result in a potential increase of 102 two-way vehicular trips on the highway network in the AM and PM peaks.

5.5 Distribution and Assignment of Development Trips

5.5.1 The trip distribution for the Proposed Development has been calculated using journey to work data from the 2011 Census.

5.5.2 The dataset used is the 'Location of Usual Residence and Place of Work by Method of Travel to Work' (MSOA Level). This has been used to find the destinations of trips to work from home-based origins centred around the MSOA where the Site is located – Manchester 060.

5.5.3 The distribution has been calculated with GIS software by considering the total car trips from each phase of the Proposed Development and the most likely route to be selected by future residents to/from the Proposed Development, based on the existing traffic conditions, expected route and suggested route by online route planners.

5.5.4 Based on the distribution of development traffic, the vehicular arrival and departures attributed to the Proposed Development have been prepared for both the AM and PM peaks.

5.6 Assessment Traffic Flows

5.6.1 All committed development has been listed above in **Section 5.3**. The committed developments not included in the 2028 Baseline, limited to Crown Street Phase 2's school (application reference: 126668/FO/2020) and Transition (application reference: 116850/FO/2017), have been considered to create a scenario which includes all the Committed Development added to the 2028 Baseline, contained in **Traffic Figures 1** and **2** in **Appendix B**. The resultant trips are presented in **Figures 3** and **4**.

5.6.2 The existing flows generated by the current uses of the Site have been subtracted from the Proposed Development traffic flows to calculate the net development trips. The net development trips have been added to the 2028 baseline and all Committed Development trips to form the 'Baseline + Committed Development + Net Development' scenario traffic flows. The resultant figures are set out in **Traffic Figures 5** and **6**.

5.6.3 In summary, this TA contains three main scenarios:

- 2028 Baseline (counts taken from Crown Street Phase 2 TA planning application, including committed developments);
- 2028 Baseline + Committed Development (additional to the Crown Street Phase 2 TA); and
- 2028 Baseline + Committed Development + Net Development.

5.7 Net Impact

5.7.1 Utilising both the existing use flows and the Proposed Development trips, a net impact assessment has been undertaken to assess the level of impact at key junctions in proximity to the Site.

5.7.2 The net vehicular impact in both the AM and PM peak has been assessed. It is noted that the majority of junctions will experience a modest increase. There are four junctions that see an increase of more than 30 trips in at least one of the peak hours:

- Garwood Street / Great Jackson Street / Site Access junction;
- Melbourne Street / Great Jackson Street / Site Access junction;
- Great Jackson Street / A56 Chester Road junction; and
- Deansgate / A56 Chester Road junction.

5.7.3 It is acknowledged that the traffic related with the Proposed Development along Deansgate Interchange does exceed the 30 trip threshold, but it has been considered that the recent improvements as part of the MSIRR package works would have been designed to accommodate the traffic generated by the Proposed Development as part of the SRF. Furthermore, this junction is a major distributor junction with several thousand trips a day and the percentage impact of the development would be insignificant.

6.0 Capacity Assessments

6.1 Introduction

6.1.1 As part of the net impact exercise described above, the following junctions were noted to be above the 30 trip threshold in the AM and / or PM peaks. As such, the operation of the existing highway network has been assessed at the following locations:

- **Junction 1** – Garwood Street / Great Jackson Street / Site Access (F2) junction;
- **Junction 2** – Melbourne Street / Great Jackson Street / Site Access (F1) junction;
- **Junction 3** – Great Jackson Street / A56 Chester Road junction; and
- **Junction 4** – Deansgate / A56 Chester Road junction.

6.1.2 The above junctions are all priority junctions and on this basis have been modelled utilising TRL's Junctions programme. Junctions allows traffic engineers to model priority junctions and their effect on traffic capacities and queuing.

6.1.3 Junctions results refer to the Ratio of Flow to Capacity (RFC), delay and queue length predicted on each arm of the junction. An RFC of 1.00 indicates that the arm in question is operating at its theoretical capacity, whilst an RFC of 0.85 or less indicates that the arm is operating within its practical capacity.

6.1.4 The results of the assessments are shown in the following sub-sections. The relevant junction modelling output reports are attached in **Appendix D**, to the rear of this report.

6.2 Junction 1 – Garwood Street / Great Jackson Street / Site Access (F2) Junction

6.2.1 **Table 6.1** presents a summary of the Junctions results for the 2028 Baseline, the 2028 Baseline + Committed Development and 2028 Baseline + Committed Development + Net Development scenarios.

Stream	2028 Base				2028 Base + Comm Dev				2028 Base + Comm Dev + Dev			
	AM Peak		PM Peak		AM Peak		PM Peak		AM Peak		PM Peak	
	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)
Garwood Street	0.29	0.4	0.40	0.7	0.29	0.4	0.40	0.7	0.28	0.4	0.46	0.9
Great Jackson Street (E)	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.01	0.0	0.03	0.1
Site Access	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.17	0.2	0.05	0.1
Great Jackson Street (W)	0.05	0.1	0.02	0.0	0.05	0.1	0.02	0.0	0.05	0.1	0.01	0.0

Table 6.1 – Garwood Street / Great Jackson Street / Site Access (F2) Priority Junction

6.2.2 Based on the results shown in the above **Table 6.1**, the Garwood Street / Great Jackson Street / Site Access (F2) priority junction is predicted to operate well within practical capacity in all the assessed scenarios.

6.3 Junction 2 – Melbourne Street / Great Jackson Street / Site Access (F1) Junction

6.3.1 **Table 6.2** below presents a summary of the Junctions results for the 2028 Baseline, the 2028 Baseline + Committed Development and 2028 Baseline + Committed Development + Net Development scenarios for this junction:

Stream	2028 Base				2028 Base + Comm Dev				2028 Base + Comm Dev + Dev			
	AM Peak		PM Peak		AM Peak		PM Peak		AM Peak		PM Peak	
	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)
Melbourne Street	0.05	0.1	0.00	0.0	0.26	0.4	0.20	0.3	0.23	0.3	0.36	0.6
Great Jackson Street (S)	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.01	0.0	0.03	0.1
Site Access	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
Great Jackson Street (N)	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0

Table 6.2 – Melbourne Street / Great Jackson Street / Site Access (F1) Priority Junction

6.3.2 Based on the results shown in the above **Table 6.2**, the Melbourne Street / Great Jackson Street / Site Access (F1) priority junction is predicted to operate well within practical capacity in all the assessed scenarios.

6.4 Junction 3 –Great Jackson Street / A56 Chester Road Junction

6.4.1 **Table 6.3** presents a summary of the Junctions results for the 2028 Baseline, the 2028 Baseline + Committed Development and 2028 Baseline + Committed Development + Net Development scenarios. As this junction does not allow a right turn from the A56 Chester Road to Great Jackson Street, there is only one arm giving way:

Stream	2028 Base				2028 Base + Comm Dev				2028 Base + Comm Dev + Dev			
	AM Peak		PM Peak		AM Peak		PM Peak		AM Peak		PM Peak	
	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)
Great Jackson Street	0.28	0.4	0.62	1.7	0.38	0.7	0.78	3.6	0.46	0.9	0.70	2.4

Table 6.3 – Great Jackson Street / A56 Chester Road Priority Junction

6.4.2 Based on the results shown in the above **Table 6.3**, the Great Jackson Street / A56 Chester Road priority junction is predicted to operate within practical capacity in all the assessed scenarios.

6.5 Junction 4 – Deansgate / A56 Chester Road Junction

6.5.1 **Table 6.4** below presents a summary of the Junctions results for the 2028 Baseline, the 2028 Baseline + Committed Development and 2028 Baseline + Committed Development + Net Development scenarios for this junction:

Stream	2028 Base				2028 Base + Comm Dev				2028 Base + Comm Dev + Dev			
	AM Peak		PM Peak		AM Peak		PM Peak		AM Peak		PM Peak	
	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)	RFC	MMQ (PCU)
Deansgate	0.35	0.6	0.57	1.4	0.38	0.7	0.62	1.7	0.52	1.2	0.68	2.2
A56 Chester Road (S)	0.92	19.8	0.65	2.3	0.94	25.0	0.71	3.1	0.94	25.0	0.71	3.1

Table 6.4 – Deansgate / A56 Chester Road Priority Junction

6.5.2 Based on the results shown in the above **Table 6.4**, the Deansgate / Great Jackson Street priority junction is predicted to operate well within theoretical capacity in all the assessed scenarios; no approach has a degree of saturation above 100%. The Deansgate arm is forecast to operate above the 0.85 threshold determining practical capacity in the AM peak on all scenarios. Notwithstanding, the Proposed Development is not exacerbating the anticipated levels of traffic which are already above the practical threshold on the base year.

6.6 Conclusions

6.6.1 It has been demonstrated in this Transport Assessment that the majority of the junctions on the local highway network are predicted to operate safely with a sufficient amount of residual capacity available in the 2028 baseline traffic scenario, without and with the development in place.

6.6.2 The Deansgate / A56 Chester Road junction is predicted to operate above practical capacity, but below theoretical capacity in all scenarios in the AM peak. However, the impact from the Proposed Development is considered to be negligible, and mitigation is not considered to be necessary.

7.0 Transport Planning Policy

7.1 Introduction

7.1.1 The following section sets out key local and national transport planning policies, and how the proposals relate to them.

7.2 National Planning Policy Framework (2021)

7.2.1 The National Planning Policy Framework (NPPF) sets out the current national transport planning policy and outlines the important role that transport policies have to play in facilitating sustainable development.

7.2.2 Paragraph 11 states that:

"Plans and decisions should apply a presumption in favour of sustainable development."

7.2.3 For decision taking this means granting permission unless:

"*…any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies*."

7.2.4 Section 9 of the NPPF is entitled *Promoting Sustainable Transport* and outlines the important role that transport policies have to play in facilitating sustainable development. It states that:

"*The planning system should actively manage patterns of growth …Significant development should be focused on locations which are or can be made sustainable, through limiting the need to travel and offering a genuine choice of transport modes.*"

7.2.5 The document emphasises the need for developments to offer a choice of sustainable modes of transport to *"reduce congestion and emissions, and improve air quality and public health"* and provide *"safe and suitable access"* for all users.

7.2.6 Paragraph 110 of the NPPF states that in assessing Sites that may be allocated for development in plans, or specific applications in development, it should be ensured that:

a) "appropriate opportunities to promote sustainable transport modes can be – or have been – taken up, given the type of development and its location;

b) safe and suitable access to the Site can be achieved for all users;

c) the design of streets, parking areas, other transport elements and the content of associated standards reflects current national guidance, including the National Design Guide and the National Model Design Code; and

d) any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree."

7.2.7 The Proposed Development shows that safe and suitable access to the Site can be achieved, where improvements would be put in place to improve pedestrian and cycle amenity and permeability. There is excellent public transport accessibility and it is also not anticipated that the proposals would result in any significant impacts on the highway network.

7.2.8 Paragraph 111 of the NPPF states that:

"Development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe."

7.2.9 The junction capacity assessment results demonstrate that the junctions on the local highway network operate well during peak hours with a sufficient amount of residual capacity available in both the future year assessment scenarios, without and with the Proposed Development in place. The overall impact is negligible and mitigation is not considered to be necessary.

7.2.10 Paragraph 112 of the NPPF states that applications for development should:

- *"give priority first to pedestrian and cycle movements, both within the scheme and with neighbouring areas; and second – so far as possible – to facilitating access to high quality public transport, with layouts that maximise the catchment area for bus or other public transport services, and appropriate facilities that encourage public transport use;*
- *address the needs of people with disabilities and reduced mobility in relation to all modes of transport;*
- *create places that are safe, secure and attractive – which minimise the scope for conflicts between pedestrians, cyclists and vehicles, avoid unnecessary street clutter, and respond to local character and design standards;*
- *allow for the efficient delivery of goods, and access by service and emergency vehicles; and*
- *be designed to enable charging of plug-in and other ultra-low emission vehicles in safe, accessible and convenient locations."*

7.2.11 The Proposed Development is situated in a highly accessible location at the edge of Manchester City Centre. There is a good level of walking and cycling infrastructure adjacent to the Site, and a wide range of public transport services are accessible within walking distance of the Site. The streetscape has been designed to provide access for all users, and the parking proposals include provision for EVCs.

7.2.12 The Proposed Development therefore accords with the general principles of the NPPF.

7.3 National Planning Practice Guidance (2014)

7.3.1 In addition to the NPPF, a National Planning Practice Guidance (NPPG) document has also been developed by the Ministry of Housing, Communities & Local Government in 2012. It brings together planning practice guidance for England and sits alongside the NPPF. Within this document there is a specific section that clarifies the over-arching principles on Travel Plans, Transport Assessments and Transport Statements, that was last updated in 2014. The guidance states that:

"Travel Plans, Transport Assessments and Statements can positively contribute to:

- *Encouraging sustainable travel;*
- *Lessening traffic generation and its detrimental impacts;*
- *Reducing carbon emissions and climate impacts;*
- *Creating accessible, connected, inclusive communities;*
- *Improving health outcomes and quality of life;*
- *Improving road safety; and*
- *Reducing the need for new development to increase existing road capacity or provide new roads."*

7.3.2 The guidance on Transport Assessments and Statements re-iterates the circumstances in which either document would usually be required. Based on the size and nature of the proposed development, and through discussions with Manchester City Council and Transport for Greater Manchester, a Transport Assessment has been prepared to consider the impacts of the Proposed Development.

7.3.3 The NPPG has been considered in the production of this TA and the accompanying FTP (**Document Reference: 078616-CUR-00-XX-RP-TP-002**).

7.3.4 As outlined above, this TA demonstrates that the Site is accessible by active and sustainable modes of travel, and that safe and suitable access can be gained to the Site. The Proposed Development therefore applies the principles set out in the NPPG and will seek to create a sustainable development.

7.4 Manchester Core Strategy (2012 – 2027)

7.4.1 The Manchester Core Strategy promotes similar principles to the NPPF. It contains three specific "Transport" policies, comprising:

- Policy T1 – Sustainable Transport;
- Policy T2 – Accessible areas of opportunity and need; and
- Policy T3 – Strategic Integration.

7.4.2 Policy T1 focuses on sustainable transport and access for all. The accessibility of the Site would encourage users of the Proposed Development to travel by sustainable modes.

7.4.3 Policy T2 of the Manchester Core Strategy states:

"The Council will actively manage the pattern of development to ensure that new development…Within the City Centre, provides a level of car parking which reflects the highly accessible nature of the location, as well as the realistic requirements of the users of the development."

7.4.4 The proposed parking provision at the Site is reflective of the highly accessible nature of the Proposed Development, whilst considering the realistic requirements of the users. The Proposed Development would benefit from active and sustainable transport links across the city centre.

7.4.5 Manchester City Council considers parking provision in the city on a case-by-case basis, and it is noted that Manchester City Council has recently accepted new developments with low or no parking provision in areas that have high levels of public transport accessibility in the vicinity and proximity to city centre locations. The approach to car parking at the Site has been agreed in-principle with Highways Officers at Manchester City Council as part of scoping discussions, as well as being agreed as part of the 2018 SRF.

7.4.6 The cycle parking proposals are in accordance with the transport policies set out in the Manchester City Council Core Strategy, with 100% provision for residents. The location of the Site also fulfils the above criteria and therefore accords with Policy T2.

7.4.7 Policy T3 is in relation to strategic integration of developments with the sustainable transport network. The Proposed Development would not prejudice the implementation of any of the strategic integration projects.

7.5 Greater Manchester Transport Strategy 2040

7.5.1 In January 2021, TfGM published a 2040 Vision for Transport to develop flexible and customer-focused travel choices, supported by smart information, ticketing and payment systems, across a truly integrated Greater Manchester transport network. The Transport Strategy states an ambition for a well-connected, zero carbon Regional Centre at the heart of the North.

7.5.2 Under Policy 3, the Transport Strategy states that TfGM will "maintain a programme of interventions encouraging people to make sustainable journeys, supported through journey planning tools, and information to encourage travel behaviour change and mode shift, in order to make the most efficient use of available capacity (particularly during peak periods)". Such interventions comprise:

- *"Reducing the carbon and environmental cost of journeys;*
- *New ways of working which make the best use of the transport network;*
- *Delivering public health benefits through enabling more active travel;*
- *Improving access to key services and jobs;*
- *Maximising sustainable travel in new developments; and*

- *Becoming more resilient to disruption."*

7.5.3 Under Policy 4, TfGM will also "work with developers to ensure that new developments are accessible by sustainable modes, and to reduce transport emissions and impacts on the highway network". This will be in accordance with the principles of:

- *"Reducing the need to travel;*
- *Reducing the need to travel by car, and the distance travelled;*
- *Maximising accessibility by sustainable modes;*
- *Making the best use of existing infrastructure, particularly through increasing the density of development close to public transport nodes;*
- *Maximising opportunities to provide additional public transport; and*
- *Designing to encourage active travel."*

7.5.4 It is considered that the Proposed Development will not adversely impact the transport network, and instead would support the Transport Strategy by enhancing opportunities for sustainable travel by integrating into existing infrastructure.

7.6 Manchester Residential Quality Guidance

7.6.1 The 'Manchester Residential Quality Guidance' document was approved as a material consideration in the Council's decision making as a Local Planning Authority by the executive in December 2016. The document sets out guidance for design quality standards for residential development in Manchester including maximum car parking provision.

7.6.2 The document seeks to promote development that will be designed with full regard to the principles of sustainability, including accessibility for all, energy efficiency and the contribution that the public realm can make to the 'greening' of the city.

7.6.3 It also seeks to underpin and contribute to the ambitions for the city of being a beacon for sustainable design; energy-efficient, sustainable and affordable homes to rent and buy; encourage walking, cycling and the use of public transport. The document also seeks to promote the development of neighbourhoods that make it easy for people to get around by means other than the car.

7.6.4 Finally, it also states: *"City Centre - Developments will be required to provide where possible, an appropriate level of car parking within the constraints of site specific circumstances and other requirements".*

7.6.5 The Proposed Development supports these principles through the provision of an accessible and connected sustainable development, with sufficient parking based on its accessible location.

7.7 Great Jackson Street Development Framework

7.7.1 This Development Framework has been prepared in 2018 in order to guide the future comprehensive regeneration of the Great Jackson Street area of Manchester City Centre. It updated the previous 2007 and 2015 Development Frameworks, which have been endorsed by Manchester City Council.

7.7.2 The Development Framework vision remains consistent with the 2015 endorsed version of the document. This is to create a vibrant, safe, secure and sustainable community.

7.7.3 The masterplan principally relates to creation of an enhanced format of high density development, which will enable the provision of a higher level of public realm and will improve the quality of the residential environment.

7.7.4 The Framework key principles include:

- *"Create a series of robustly tested tall buildings located around the perimeter of the site, in line with the originally agreed locations in the 2015 Framework;*
- *Create a larger network of pleasant, landscaped and naturally secure streets throughout the site to enhance the amenity of future residents, as well as strengthen connections with Hulme Park, adjoining neighbourhoods, adjoining regeneration areas, and the wider City Centre;*
- *Create fully accessible public and private spaces, as part of a distinctive and broader place-making strategy. This will be essential in terms of supporting high density forms of development. as well as improving the amenity for the communities that are proposed to be formed within this area;*
- *New public realm will continue to incorporate well-designed hard and soft landscaping, open up the River Medlock, and establish successful linkages back to Hulme Park."*

7.7.5 The Proposed Development supports these principles through the creation of an accessible and sustainable development with a focus on open, public spaces. This will be achieved by opening up new routes between the buildings and the high-quality public realm environment.

7.8 Conclusions

7.8.1 This policy review demonstrates that the Proposed Development is in line with national and local transport policies and guidance. the Site is located within an area which has a wide range of existing local facilities and plenty of sustainable travel choices

7.8.2 The Proposed Development supports these principles through the provision of an accessible and connected sustainable development, with sufficient parking based on its accessible location.

8.0 Summary and Conclusions

8.1 Summary

8.1.1 Curtins has been appointed by Renaker Build Limited to provide traffic and transport advice in relation to the redevelopment of a Site known as Plot F at Great Jackson Street, Deansgate-Castlefield, Manchester.

8.1.2 The Proposed Development will be delivered in two phases to deliver the two proposed buildings (F1 and F2).

8.1.3 The proposals include demolition of existing structures and the construction of a residential-led scheme comprising two buildings of 51 storeys each, together accommodating 988 residential units (Use Class C3) equally distributed as 494 dwellings at Building F1 and 494 dwellings at Building F2; complete with basement car parking, cycle provision, landscaping, access and other associated works.

8.1.4 Plot F forms part of the wider Great Jackson Street Strategic Regeneration Framework which encompasses a Site area of 7.78 hectares. The Proposed Development supports the principles of the Strategic Regeneration Framework.

8.1.5 A review of baseline conditions and highway safety in the vicinity of the Site has been undertaken, which has identified there are no existing highway safety issues that are likely to be exacerbated by the Proposed Development.

8.1.6 The scope of this Transport Assessment and the accompanying Framework Travel Plan has been agreed with Highways Officers at Manchester City Council. Transport for Greater Manchester was also consulted as part of pre-application discussions.

8.1.1 Two vehicular access points will be created to access the Site, with both accesses located off Great Jackson Street. Owen Street will be reconfigured in the vicinity of Great Jackson Street, as proposed by the Strategic Regeneration Framework.

8.1.2 A suitable level of parking is proposed to meet demand yet reflect the highly accessible location of the Site in terms of opportunities for active and sustainable travel.

8.1.3 Accessibility by sustainable modes of travel is excellent, reflected by the Greater Manchester Accessibility Level 8. The Site is well located to benefit from existing pedestrian, cycle and public transport networks within its immediate vicinity. This will be further enhanced by opening up new routes between the buildings and the high-quality public realm environment.

8.1.4 A range of improvements are proposed to the surrounding area as part of the Strategic Regeneration Framework to enhance the environment for all road users, most notably pedestrians and cyclists.

8.1.5 An assessment of existing and future traffic flows at the Site shows that the traffic will disperse quickly across a number of junctions in the study area. However, some junctions will experience a modest increase.

8.1.6 Where the traffic flow increase is 30 trips or above, junction capacity assessments show that all the junctions on the local highway network operate well within practical capacity during peak hours with a sufficient amount of residual capacity available in all scenarios, without and with the Proposed Development in place, with the exception of The Deansgate / A56 Chester Road junction. This junction is predicted to operate above practical capacity, but below theoretical capacity in all scenarios in the AM peak, but this is not considered to be related with the Proposed Development. Notwithstanding, the overall impact is negligible, and mitigation is not considered to be necessary.

8.1.7 A review of relevant local and national transport planning guidance has been undertaken. It is demonstrated that Proposed Development conforms with such policy and represents a sustainable development.

8.2 Conclusions

8.2.1 It is Curtins view that from a traffic and transportation perspective there are no reasons why the Proposed Development should not be granted planning approval.

Plans

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Project:
GREAT JACKSON STREET - PLOT F

Drg Title:
ACCESSIBILITY
INDICATIVE WALKING CATCHMENT

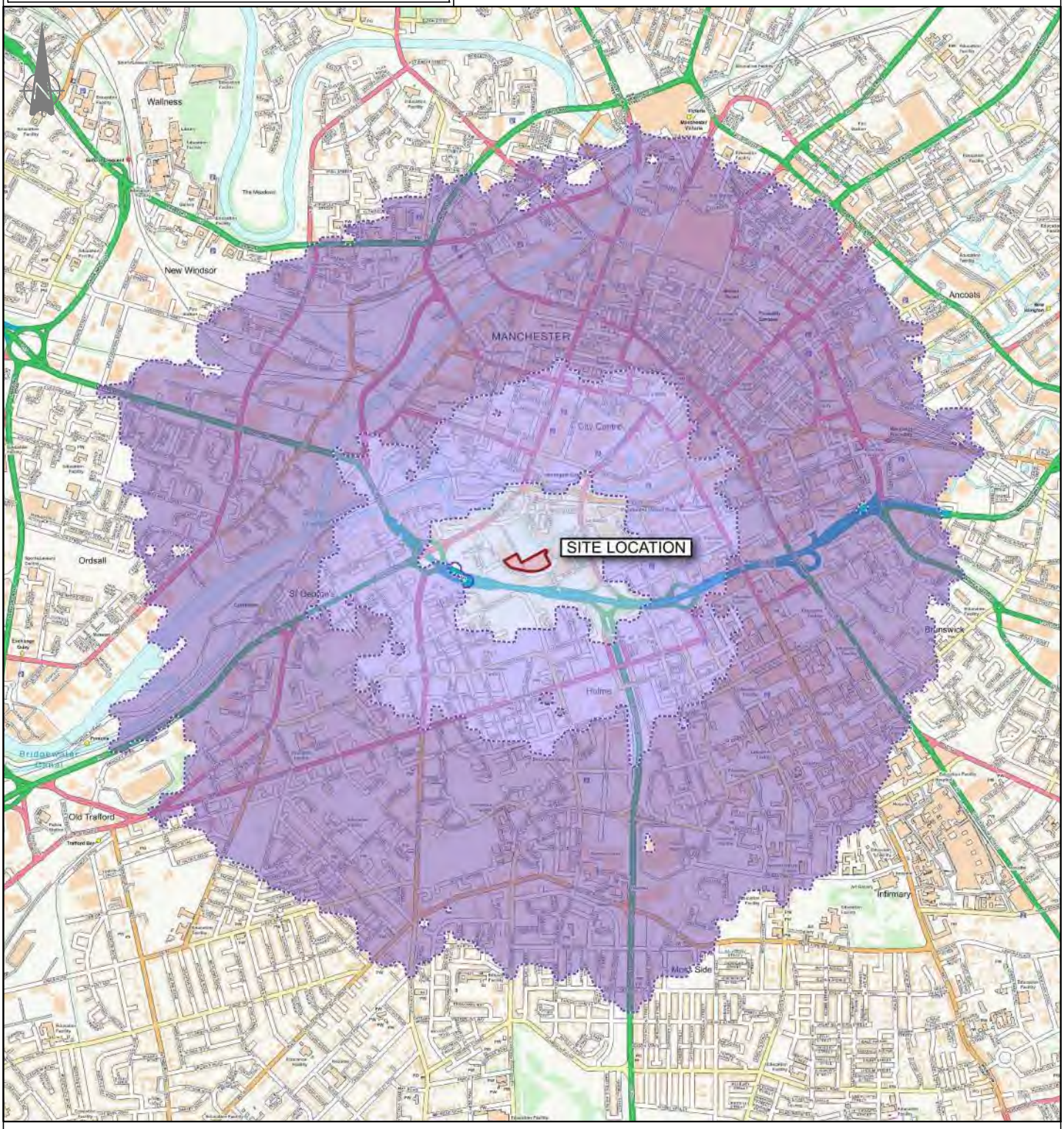
Status:
PRELIMINARY

Drawn By: JM | Checked By: DD

Designed By: JM | Date: 01/06/21

Scale: NTS

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
78524	CUR	00	XX	DR	TP	06003	P01



KEY:
Site
Walking Catchment:
500m
1000m
2000m

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\\mafs02\Projects\078001 - 079000\078524 - Plot F Great Jackson StreetIQ4-Production\4A-Models-Drawings\TP\CAD\06\

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Project:
GREAT JACKSON STREET - PLOT F

Drg Title:
ACCESSIBILITY
INDICATIVE CYCLE CATCHMENT

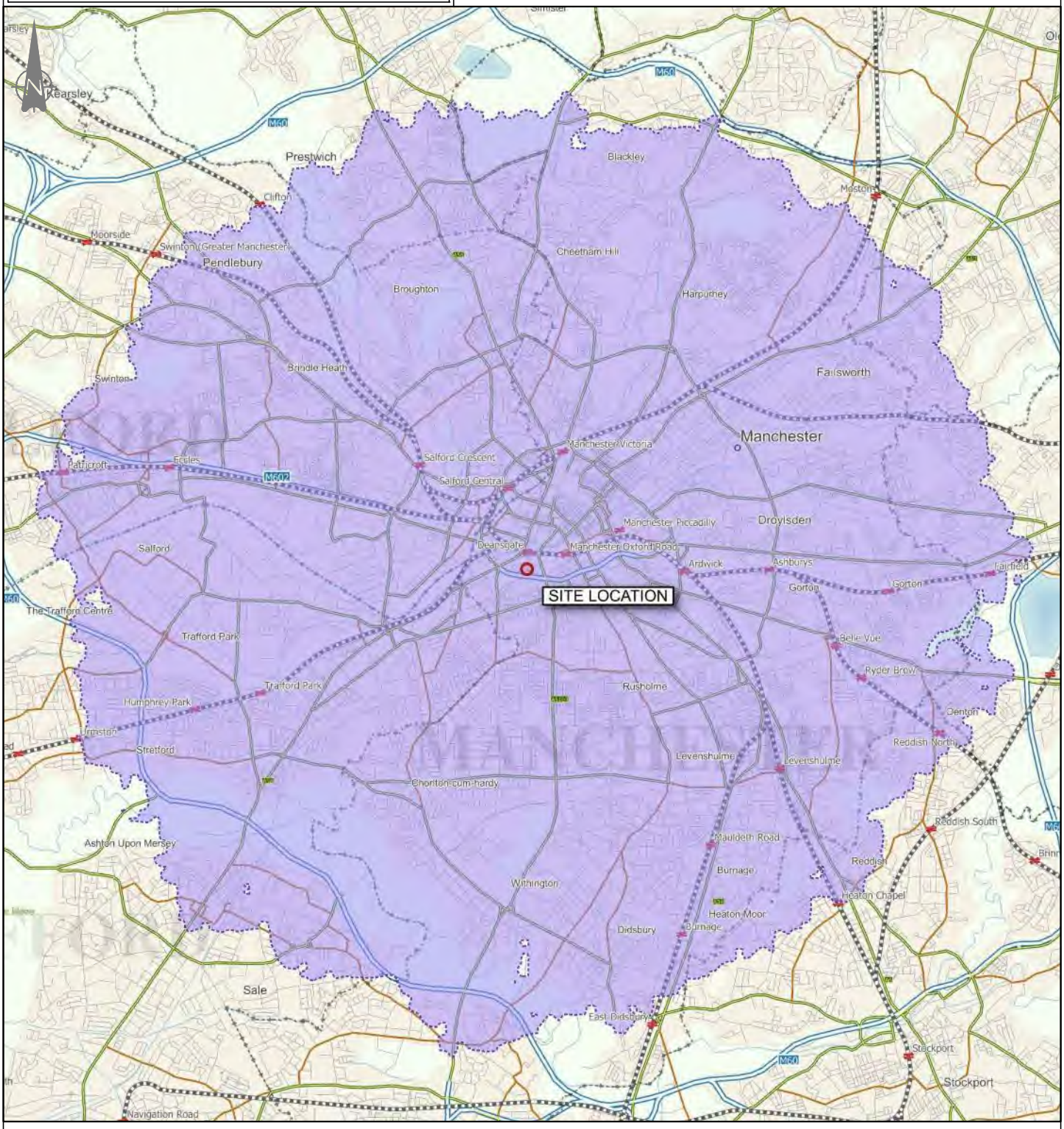
Status:
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Drawn By: JM | Checked By: DD

Designed By: JM | Date: 01/06/21

Scale: NTS

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
78524	CUR	00	XX	DR	TP	06004	P01



KEY:
Site
Cycle Catchment:
8000m

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Project:
GREAT JACKSON STREET - PLOT F

Drg Title:
ACCESSIBILITY
INDICATIVE PUBLIC
TRANSPORT CATCHMENT

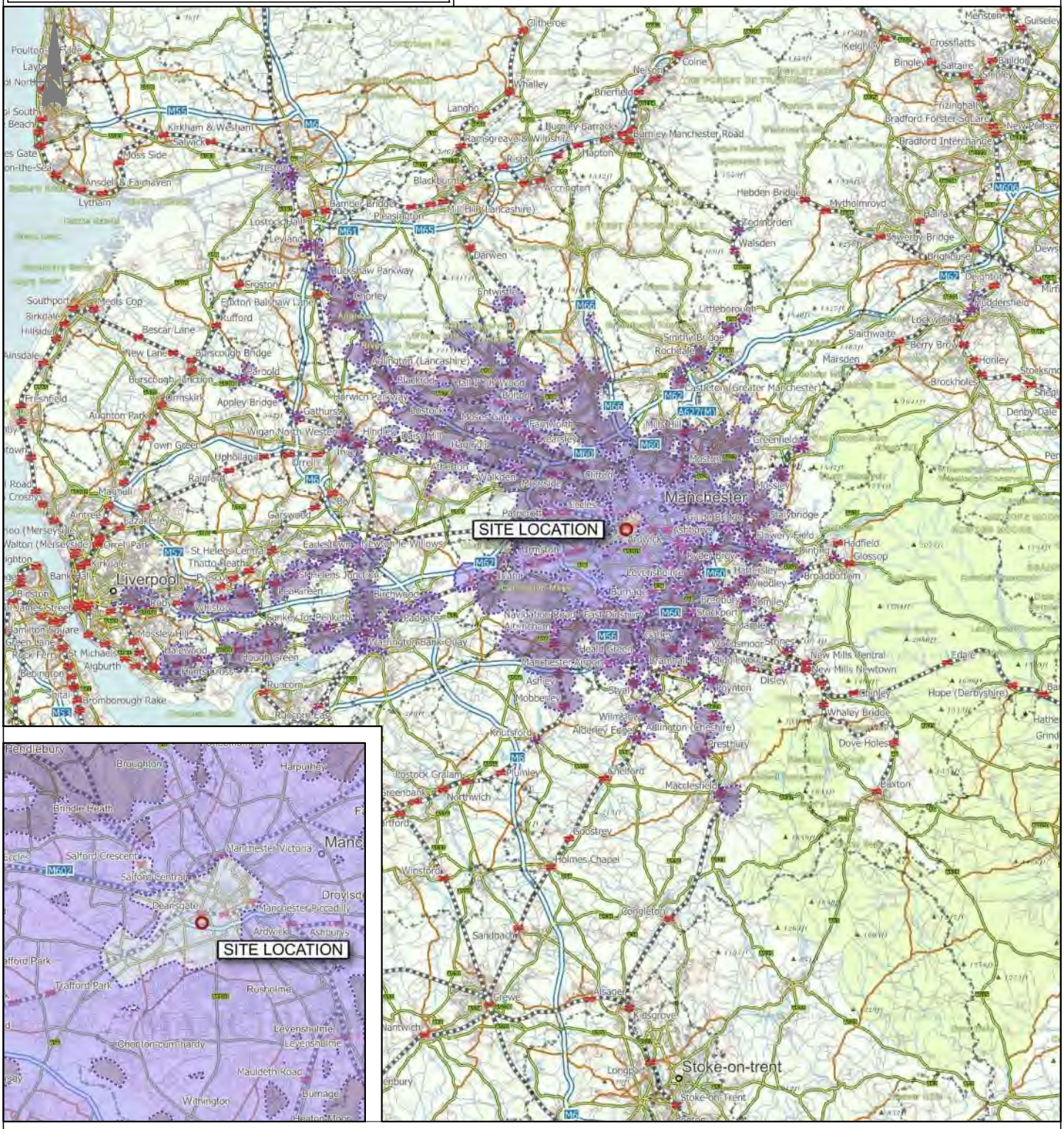
Status:
PRELIMINARY

Drawn By: JM | Checked By: DD

Designed By: JM | Date: 01/06/21

Scale: NTS

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
78524	CUR	00	XX	DR	TP	06005	P01



KEY:

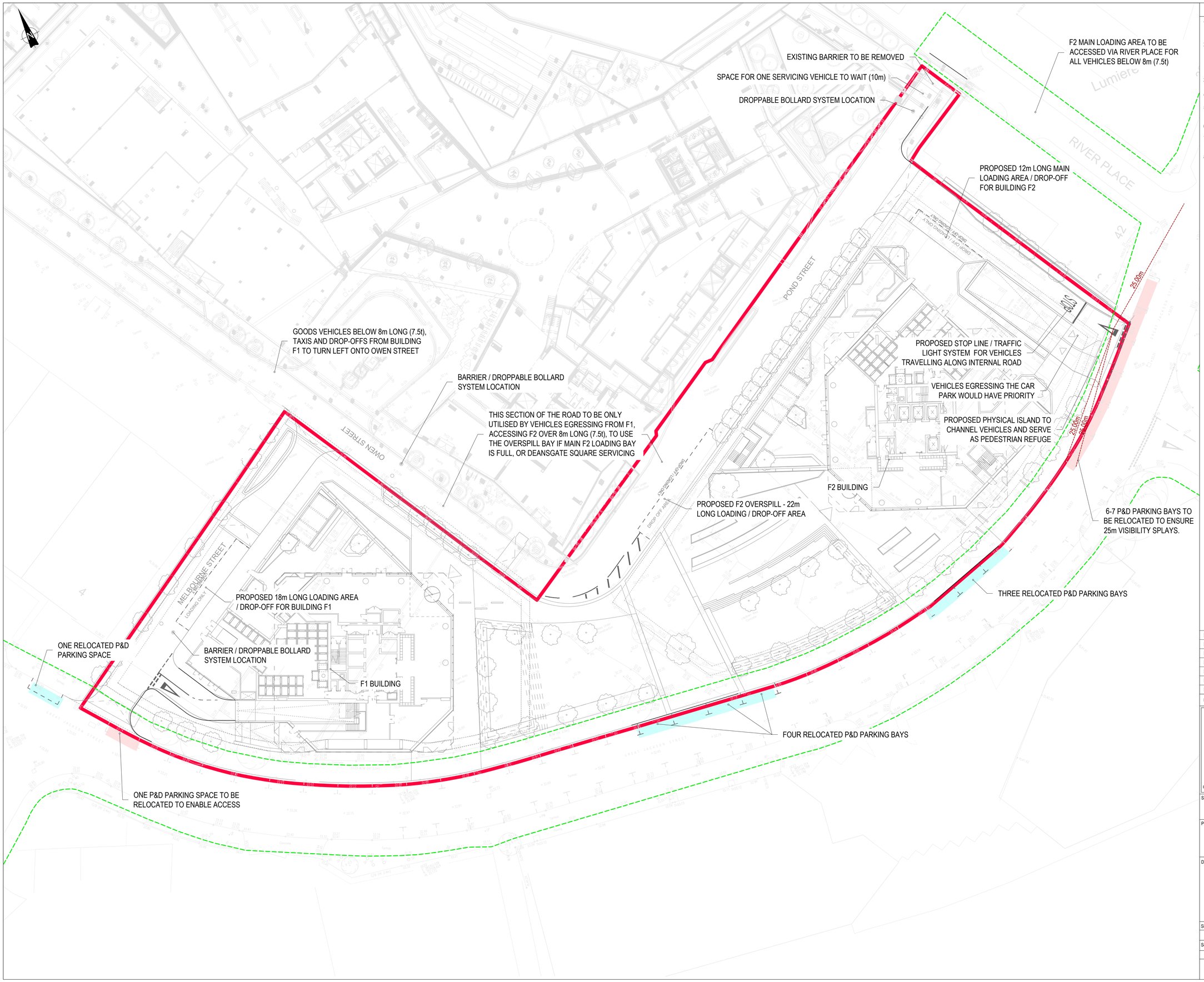
Site

Public Transport Catchment:
20 minutes
40 minutes
60 minutes

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Drawings



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6. BASED ON SIMPSON HAUGH'S LAYOUT: 'Z1-SHP-G100-PL-Grd-001'
7. PLANNING BOUNDARY OBTAINED FROM SIMPSON HAUGH'S DRAWING REF.: 'Z1-SHP-G100-PL-XX-001'
8. POND STREET JUNCTION WITH RIVER PLACE BASED ON LATEST DEANSGATE SQUARE DEVELOPMENT DRAWINGS PROVIDED BY RENAKER

KEY:

- PLOT F PLANNING BOUNDARY
- EXTENTS OF PUBLIC HIGHWAY (BASED ON MCC RECORDS - OS BASE)
- PROPOSED KERB LINE
- PROPOSED ROAD MARKINGS
- 2.40 x 25.00m — PROPOSED VISIBILITY SPLAYS (20mph)
- P&D PARKING SPACES TO BE RELOCATED
- RELOCATED P&D PARKING SPACES

Rev:	Description:	Date:	By:	Chkd:
P08	Layout updated	13/10/21	DD	CP
P07	River Place barrier and bollards rearranged	07/10/21	DD	CP
P06	F1 Layout and access to basement updated	25/08/21	DD	DD
P05	Ownership line updated	06/08/21	DD	DD
P04	Layout updated	03/08/21	DD	DD
P03	Access Strategy updated	23/06/21	DD	AV
P02	Layout updated	16/06/21	DD	CP

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Status: PLANNING

Project: PLOT F - GREAT JACKSON STREET MANCHESTER

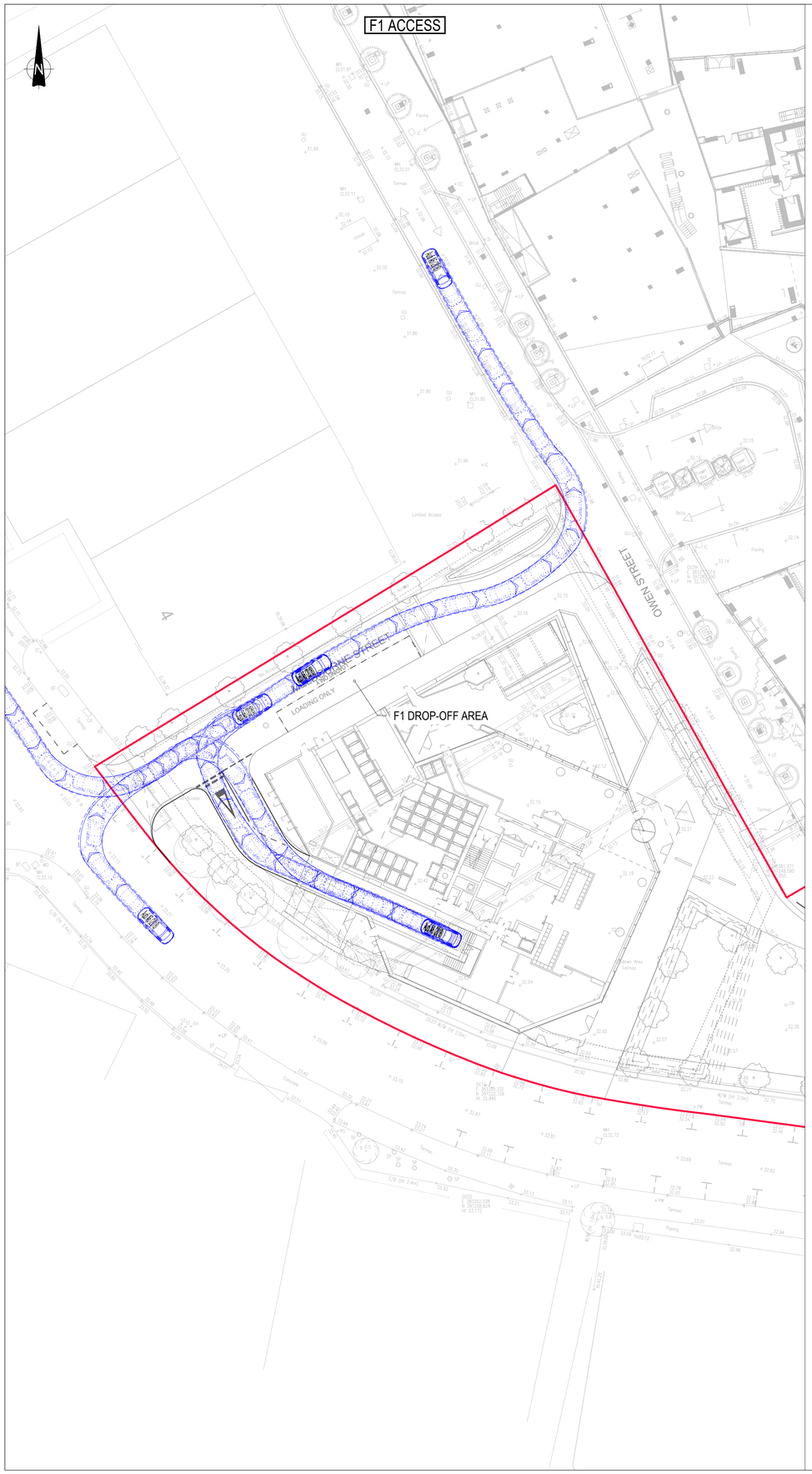
Drg Title: ACCESS ARRANGEMENT

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	01/06/21	DD	DD	CP
Scale: 1:300				

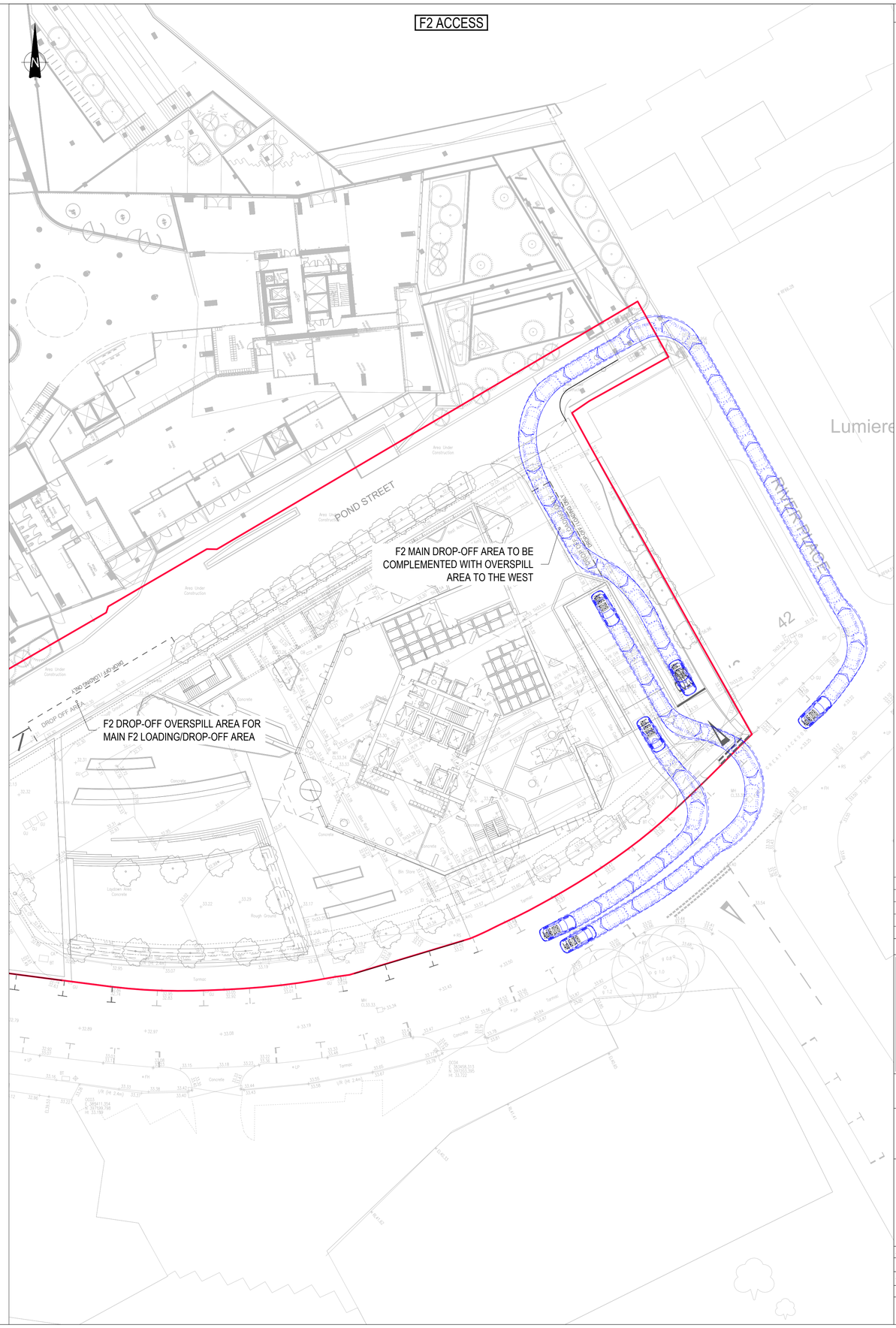
Project No: 78616 - Originator: CUR - Volume: 00 - Level: XX - Type: DR - Role: TP - Category / Number: 75001 - Rev: P08

\\mafs02\Projects\078001 - 079000\078616 - Renaker Build - Plot F\Q4-Production\4A-Models-Drawings\TP\CAD\75\

F1 ACCESS



F2 ACCESS



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6. BASED ON SIMPSON HAUGH'S LAYOUT: 'Z1-SHP-G100-PL-B1-001'
7. POND STREET JUNCTION WITH RIVER PLACE BASED ON LATEST DEANSGATE SQUARE DEVELOPMENT DRAWINGS PROVIDED BY RENAKER
8. PLANNING BOUNDARY OBTAINED FROM SIMPSON HAUGH'S DRAWING REF.: 'Z1-SHP-G100-PL-XX-001'

KEY:

- PLOT F PLANNING BOUNDARY
- PROPOSED RAISED KERB LINE
- PROPOSED FLUSH KERB LINE
- PROPOSED ROAD MARKINGS

VEHICLE PROFILE:



Audi A6 (2018)	
Overall Length	4.939m
Overall Width	1.847m
Overall Body Height	1.457m
Min Body Ground Clearance	0.142m
Max Track Width	1.872m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	5.950m

Rev:	Description:	Date:	By:	Chkd:
P06	Layout updated	13/10/21	DD	CP
P05	Key updated	06/08/21	DD	DD
P04	Layout updated	03/08/21	DD	DD
P03	Routes updated	22/06/21	DD	CP
P02	Access arrangement and layout updated	16/06/21	DD	CP

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Status: FOR PLANNING

Project: PLOT F - GREAT JACKSON STREET MANCHESTER

Drg Title: SWEPT PATH ANALYSIS LARGE CAR GROUND FLOOR ACCESS

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	01/06/21	DD	DD	CP
Scale: 1:300				

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
78616	CUR	00	XX	DR	TP	05001	P06

\\mafs02\Projects\078001 - 079000\078616 - Renaker Build - Plot F\04-Production\4A-Models-Drawings\TP\CAD\05\

F1 SERVICE ROUTES + F2 >8m LONG VEHICLES

ALL VEHICLES BELOW 8m LONG (7.5t) FROM F1 TO TURN LEFT ONTO OWEN STREET

RELOCATED P&D PARKING SPACE

F1 LOADING AREA

ONE P&D PARKING SPACE TO BE RELOCATED TO FACILITATE ACCESS OR LARGE HGVs

THIS SECTION OF THE ROAD TO BE ONLY UTILISED BY VEHICLES EGRESSING FROM F1, ACCESSING F2 OVER 8m LONG (7.5t), TO USE THE OVERSPILL BAY IF MAIN F2 LOADING BAY IS FULL, OR DEANSGATE SQUARE SERVICING

F2 MAIN LOADING AREA

F2 DROP-OFF OVERSPILL AREA FOR MAIN F2 LOADING/DROP-OFF AREA

MELBOURNE STREET

OWEN STREET

POND STREET

LOADING ONLY

DROP OFF AREA

ONE DIRECTION ONLY

RIVER

F2 <8m LONG VEHICLES

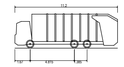
Lumiere

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6. BASED ON SIMPSON HAUGH'S LAYOUT: 'Z1-SHP-G100-PL-Grd-001'
7. POND STREET JUNCTION WITH RIVER PLACE BASED ON LATEST DEANSGATE SQUARE DEVELOPMENT DRAWINGS PROVIDED BY RENAKER
8. PLANNING BOUNDARY OBTAINED FROM SIMPSON HAUGH'S DRAWING REF.: 'Z1-SHP-G100-PL-XX-001'

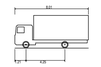
KEY:
- PLOT F PLANNING BOUNDARY
- PROPOSED KERB LINE
- PROPOSED ROAD MARKINGS

VEHICLE PROFILE:



Phoenix 2 Duo (P2-15W with Elite 6x4 chassis)

Overall Length	11.200m
Overall Width	2.500m
Overall Body Height	3.751m
Min Body Ground Clearance	0.391m
Track Width	2.500m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	9.500m



7.5t Box Van

Overall Length	8.010m
Overall Width	2.100m
Overall Body Height	3.556m
Min Body Ground Clearance	0.391m
Track Width	2.100m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	7.400m

Rev:	Description:	Date:	By:	Chkd:
P07	Layout updated	13/10/21	DD	CP
P06	Key updated	06/08/21	DD	DD
P05	Layout updated	03/08/21	DD	DD
P04	Access to Owen St updated	22/06/21	DD	AV
P03	Servicing routes updated	22/06/21	DD	AV
P02	Service arrangement and layout updated	16/06/21	DD	CP

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Status: FOR PLANNING

Project: PLOT F - GREAT JACKSON STREET MANCHESTER

Drg Title: SWEPT PATH ANALYSIS SERVICING

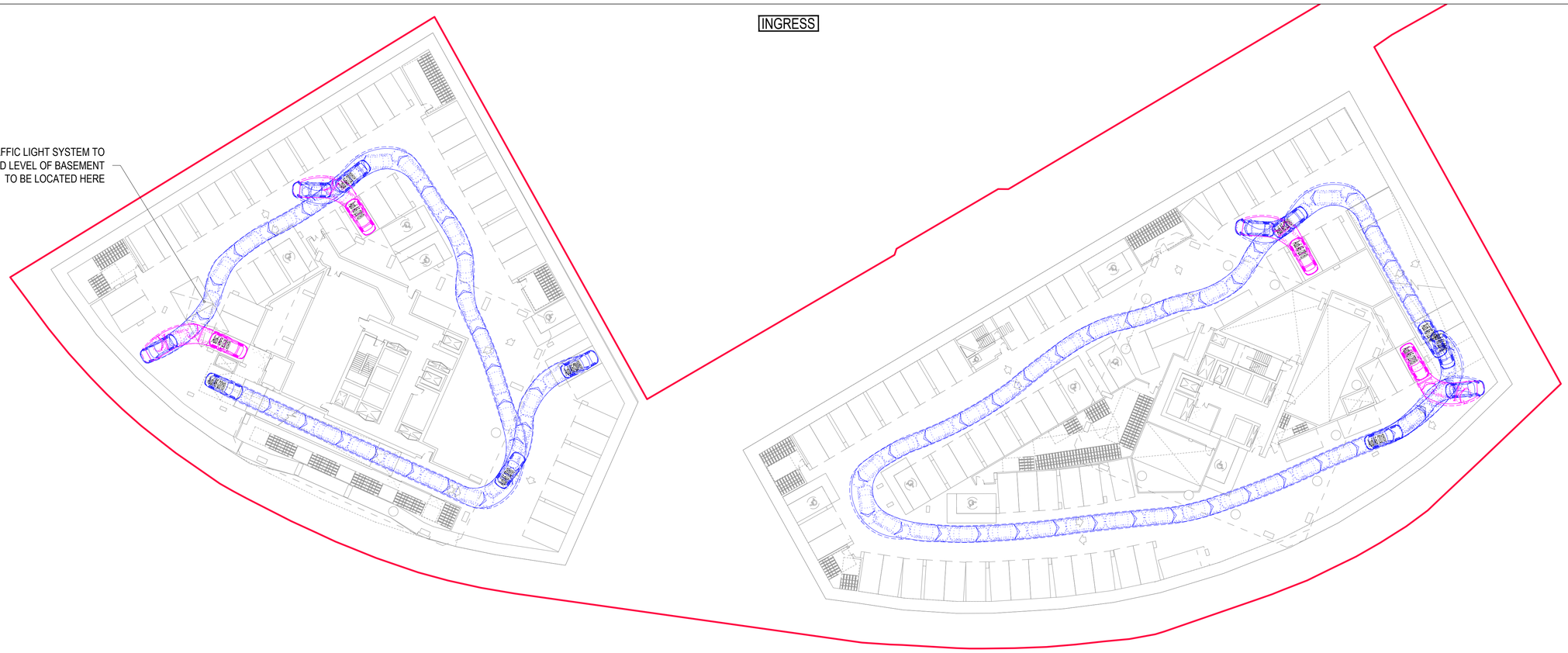
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A1	01/06/21	DD	DD	CP

Scale: 1:300

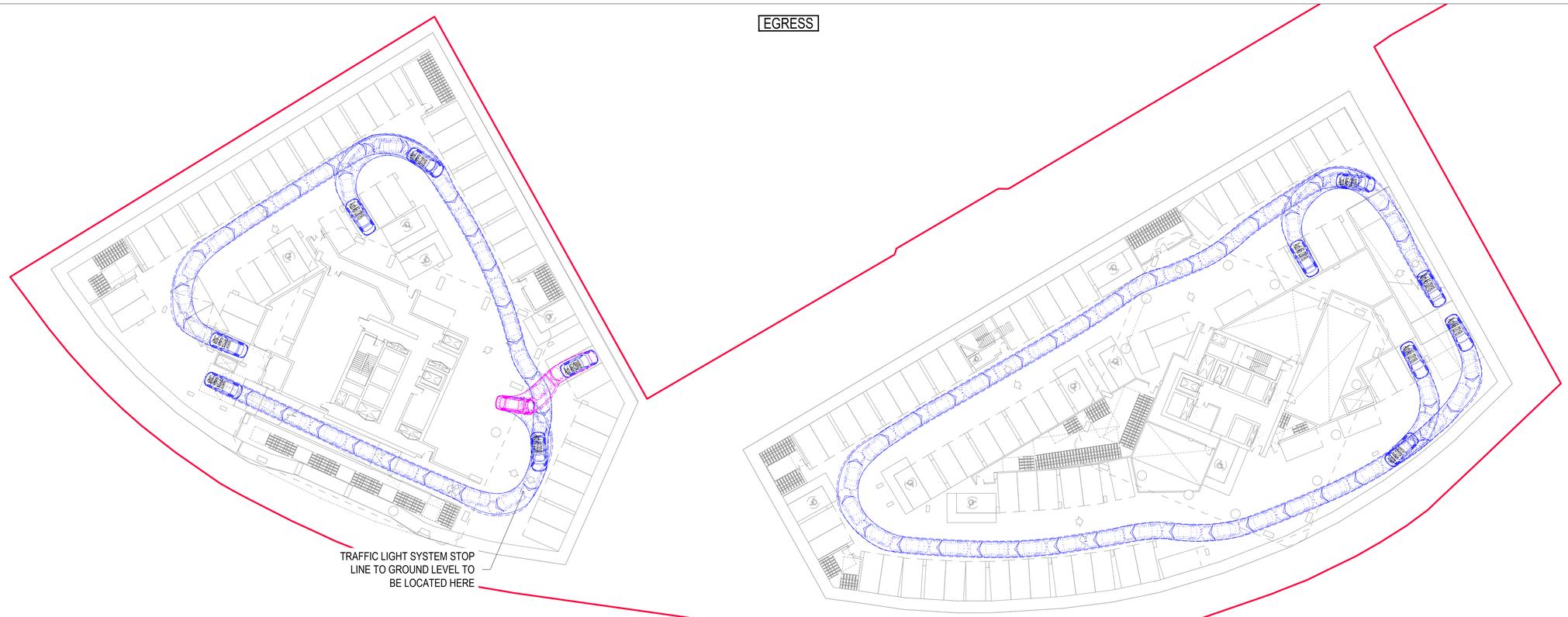
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78616	- CUR -	00	- XX -	DR	- TP -	05002	- P07

\\mafs02\Projects\078001 - 079000\078616 - Renaker Build - Plot F\04-Production\4A-Models-Drawings\TP\CAD\05\

INGRESS



EGRESS



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6. BASED ON SIMPSON HAUGH'S LAYOUT: 'Z1-SHP-G100-PL-B1-001'

VEHICLE PROFILE:



Audi A6 (2018)	
Overall Length	4.939m
Overall Width	2.114m
Overall Body Height	1.457m
Min Body Ground Clearance	0.142m
Track Width	1.748m
Lock to lock time	4.0s
Kerb to Kerb Turning Radius	5.950m

Rev:	Description:	Date:	By:	Chkd:
P05	Layout updated	13/10/21	DD	CP
P04	Layout updated	04/08/21	DD	DD
P03	Layout updated	11/06/21	DD	CP
P02	Tower F1 stop line for traffic lights relocated	09/06/21	DD	DD

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Status:

FOR PLANNING

Project:

PLOT F - GREAT JACKSON STREET
MANCHESTER

Drg Title:

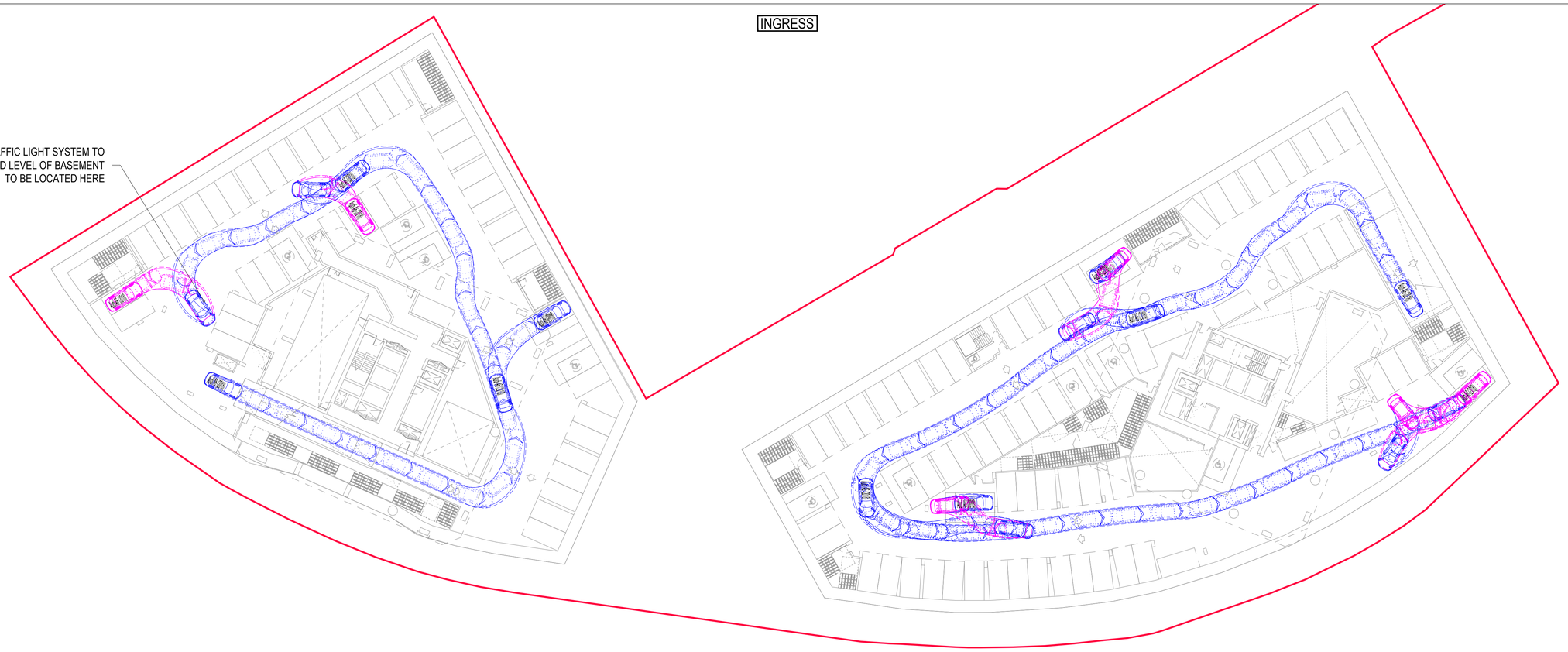
SWEPT PATH ANALYSIS
LARGE CAR
BASEMENT LEVEL 1

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	08/06/21	DD	DD	DD
Scale: 1:300				

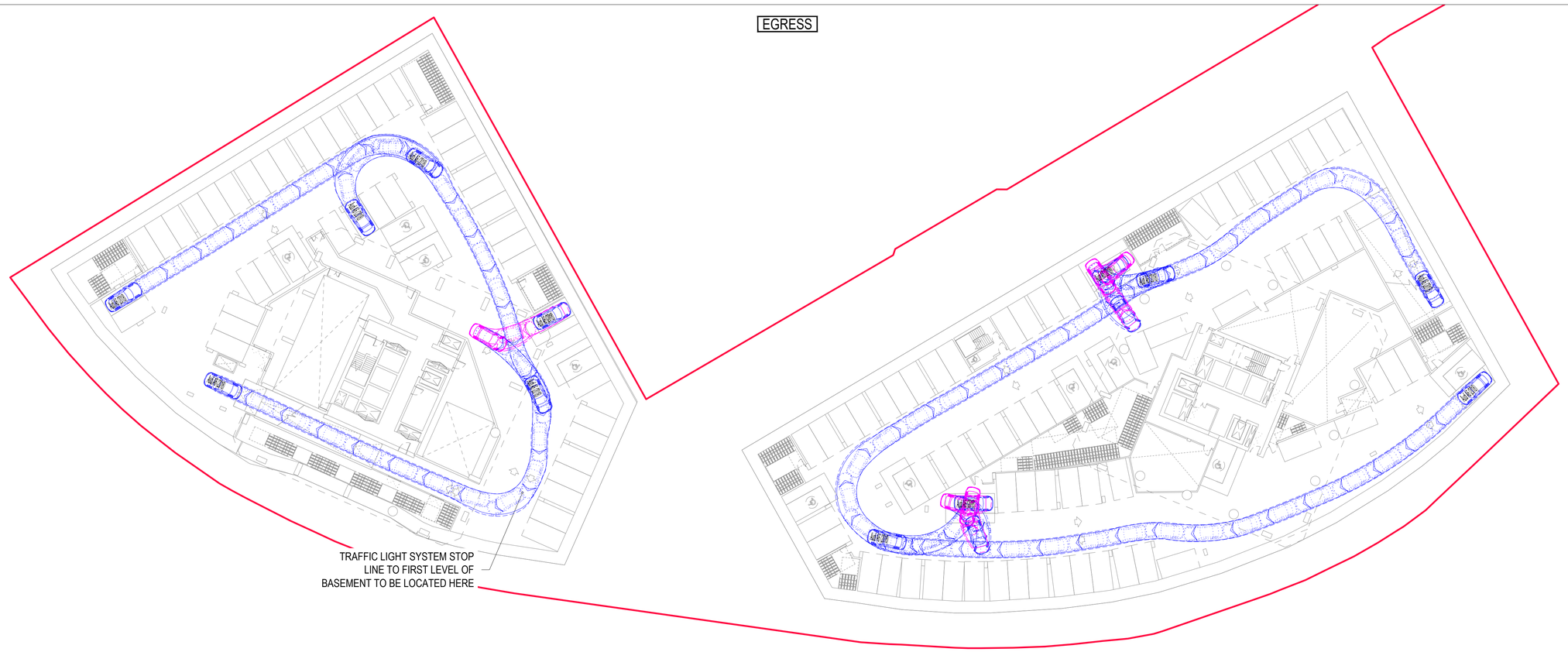
Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
78616	- CUR -	00	- XX -	DR	- TP -	05003	- P05

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6. BASED ON SIMPSON HAUGH'S LAYOUT: 'Z1-SHP-G100-PL-B2-001'

VEHICLE PROFILE:



Audi A6 (2018)	
Overall Length	4.939m
Overall Width	2.114m
Overall Body Height	1.457m
Min Body Ground Clearance	0.142m
Track Width	1.748m
Lock to lock time	4.0s
Kerb to Kerb Turning Radius	5.950m

Rev:	Description:	Date:	By:	Chkd:
P04	Layout updated	13/10/21	DD	CP
P03	Layout updated	04/08/21	DD	DD
P02	Tower F2 last spaces retracked	11/06/21	DD	DD

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Status:

FOR PLANNING

Project:

PLOT F - GREAT JACKSON STREET
MANCHESTER

Drg Title:

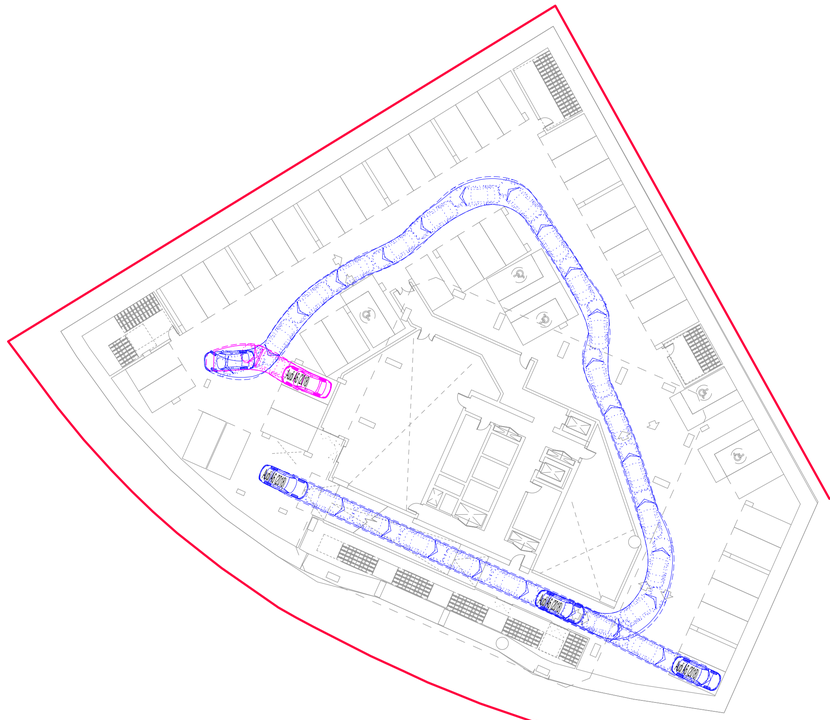
SWEPT PATH ANALYSIS
LARGE CAR
BASEMENT LEVEL 2

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	11/06/21	DD	DD	CP
Scale: 1:300				

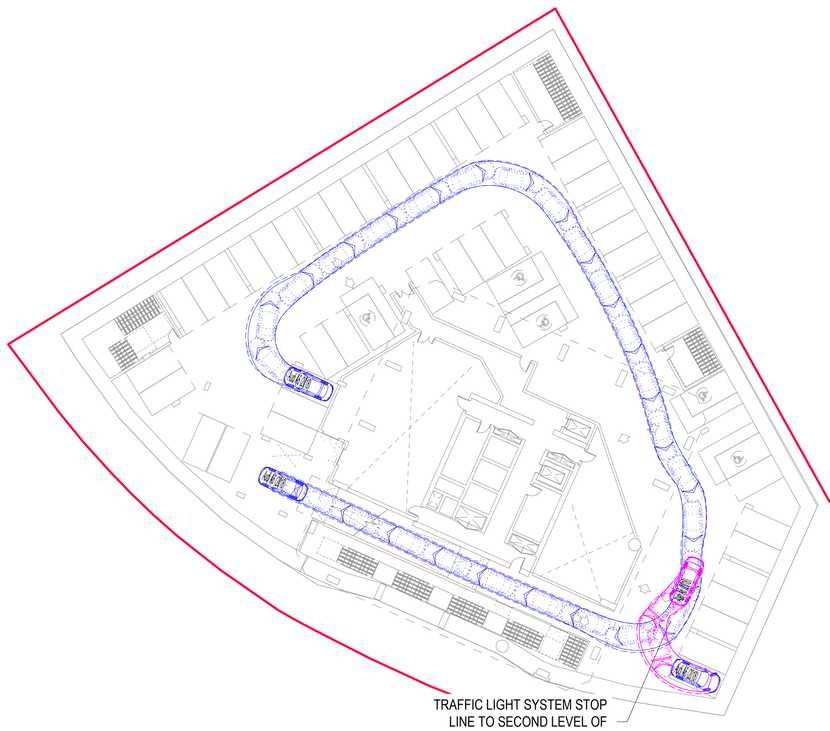
Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
78616	- CUR -	00	- XX -	DR	- TP -	05004	- P04

\\mel-fs02\Projects\078001 - 079000\078616 - Reinaker Build - Plot F\Q4-Production\A4-Models\Drawings\TP\CAD\05\

INGRESS



EGRESS



TRAFFIC LIGHT SYSTEM STOP
LINE TO SECOND LEVEL OF
BASEMENT TO BE LOCATED HERE

GENERAL NOTES:

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5. THE CONTENT OF THIS DRAWING IS FOR INDICATIVE INFORMATION ONLY AND NOT SUITABLE FOR CONSTRUCTION PURPOSES
6. BASED ON SIMPSON HAUGH'S LAYOUT: 'Z1-SHP-G100-PL-B3-001'

VEHICLE PROFILE:



Audi A6 (2018)	
Overall Length	4.939m
Overall Width	2.114m
Overall Body Height	1.457m
Min Body Ground Clearance	0.142m
Track Width	1.930m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	5.950m

Rev:	Description:	Date:	By:	Chkd:
P02	Layout updated	13/10/21	DD	CP

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Status:

FOR PLANNING

Project:

PLOT F - GREAT JACKSON STREET
MANCHESTER

Drg Title:

SWEPT PATH ANALYSIS
LARGE CAR
BASEMENT LEVEL 3

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	11/06/21	DD	DD	CP
Scale: 1:300				

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
78616	CUR	00	XX	DR	TP	05005	P02

\\mel502\Projects\078001 - 079000\078616 - Reinaker Build - Plot F\04-Production\4A-Models-Drawings\TP\CAD\05\

Appendix A – Site Layout Plan



This drawing is copyright
Do not scale off dimensions.
All dimensions to be checked on site by contractor.

Contractor to report any dimensional discrepancies, errors or omissions prior to commencing on site.

NOTE:
Previously issued as Z1-SHP-G100-PL-00-001

NORTH

Rev	Date	Description
P10	11-05-2021	Street Carpark Analysis
P11	27-05-2021	Public space update
P12	03-06-2021	Layout update
P13	09-06-2021	Ground floor layout to TPM
P14	11-06-2021	Design Update
P15	01-07-2021	Issue to design team
P16	09-07-2021	Landscape update
P17	14-07-2021	Private garden update
P18	21-07-2021	Design Development
P19	28-07-2021	F2 emergency stair update
P20	11-10-2021	Bollard update

Project Title
Great Jackson Street - Plot F
Manchester

Drawing Title
Site Plan
Level 00

Project No
10334

Scale
1 : 500 @ A3

Status
FOR INFORMATION

SHP Drawing Code PROJ - ORIG - ZONE - ROLE - CLAS - TYPE - LOC - SEQ
10334-Z1-SHP-G100-PL-Grd-001

Revision
P20

simpsonhaugh

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London
+44 (0)20 7549 4000

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Appendix B – Traffic Figures

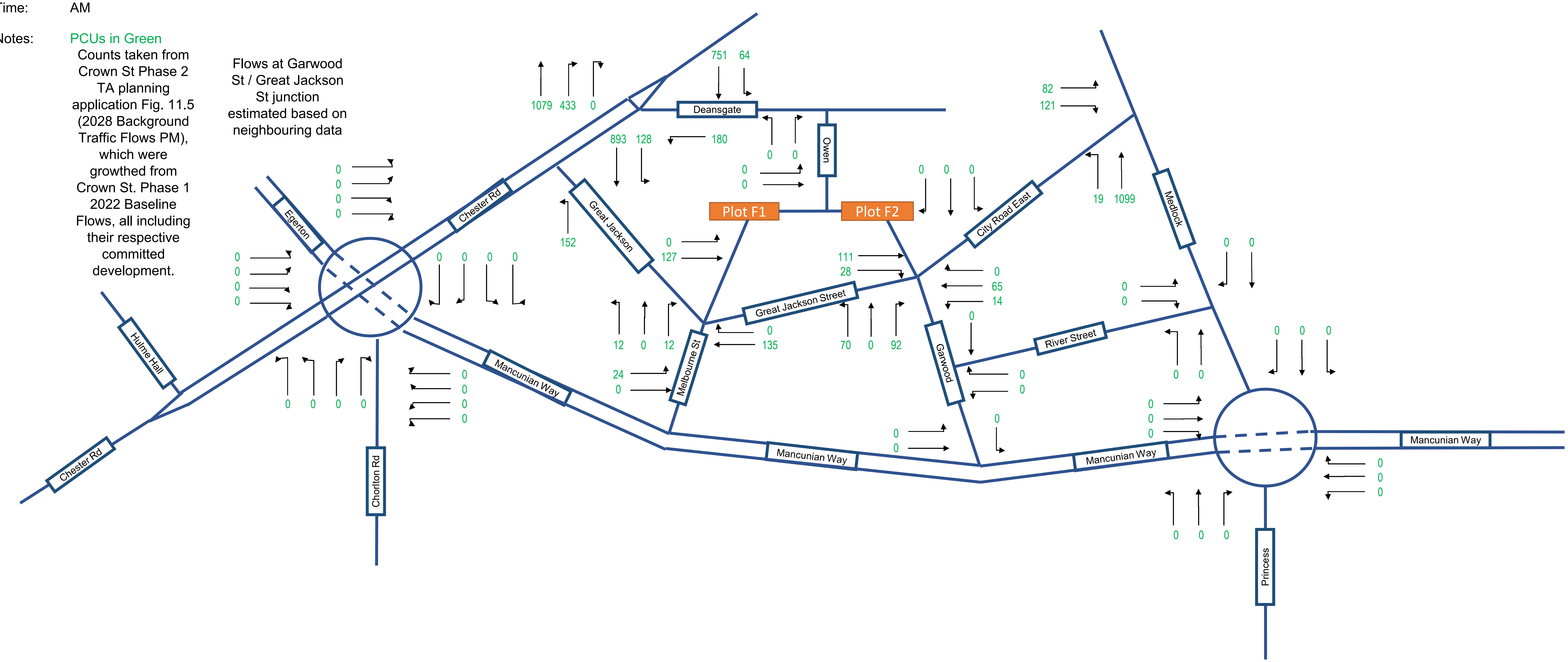
78616 Plot F - Great Jackson Street

Fig 001: 2028 Base (based on Crown St Phase 2 TA)
Time: AM

Notes: PCUs in Green

Counts taken from Crown St Phase 2 TA planning application Fig. 11.5 (2028 Background Traffic Flows PM), which were growthed from Crown St. Phase 1 2022 Baseline Flows, all including their respective committed development.

Flows at Garwood St / Great Jackson St junction estimated based on neighbouring data



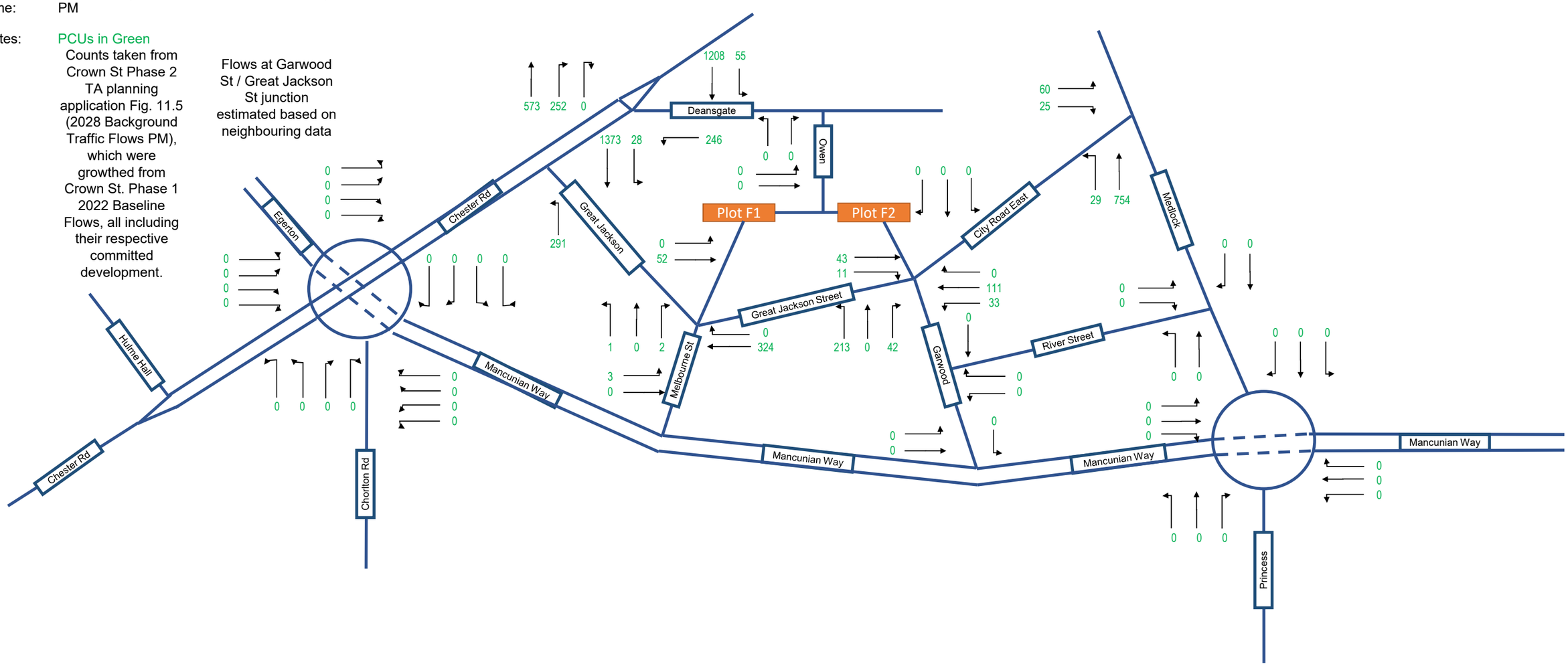
78616 Plot F - Great Jackson Street

Fig 002: 2028 Base (based on Crown St Phase 2 TA)
Time: PM

Notes: PCUs in Green

Counts taken from Crown St Phase 2 TA planning application Fig. 11.5 (2028 Background Traffic Flows PM), which were growthed from Crown St. Phase 1 2022 Baseline Flows, all including their respective committed development.

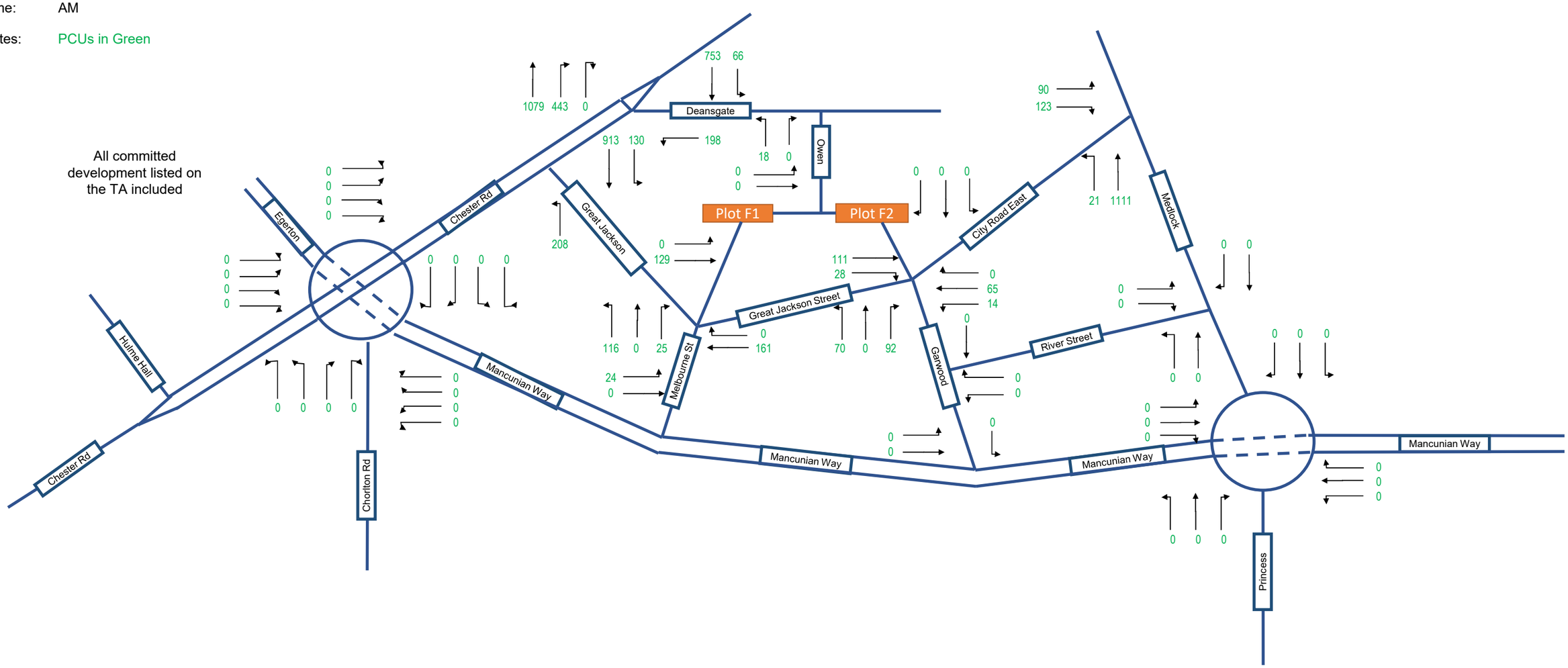
Flows at Garwood St / Great Jackson St junction estimated based on neighbouring data



78616 Plot F - Great Jackson Street

Fig 003: 2028 Base + Committed Development Trips
Time: AM

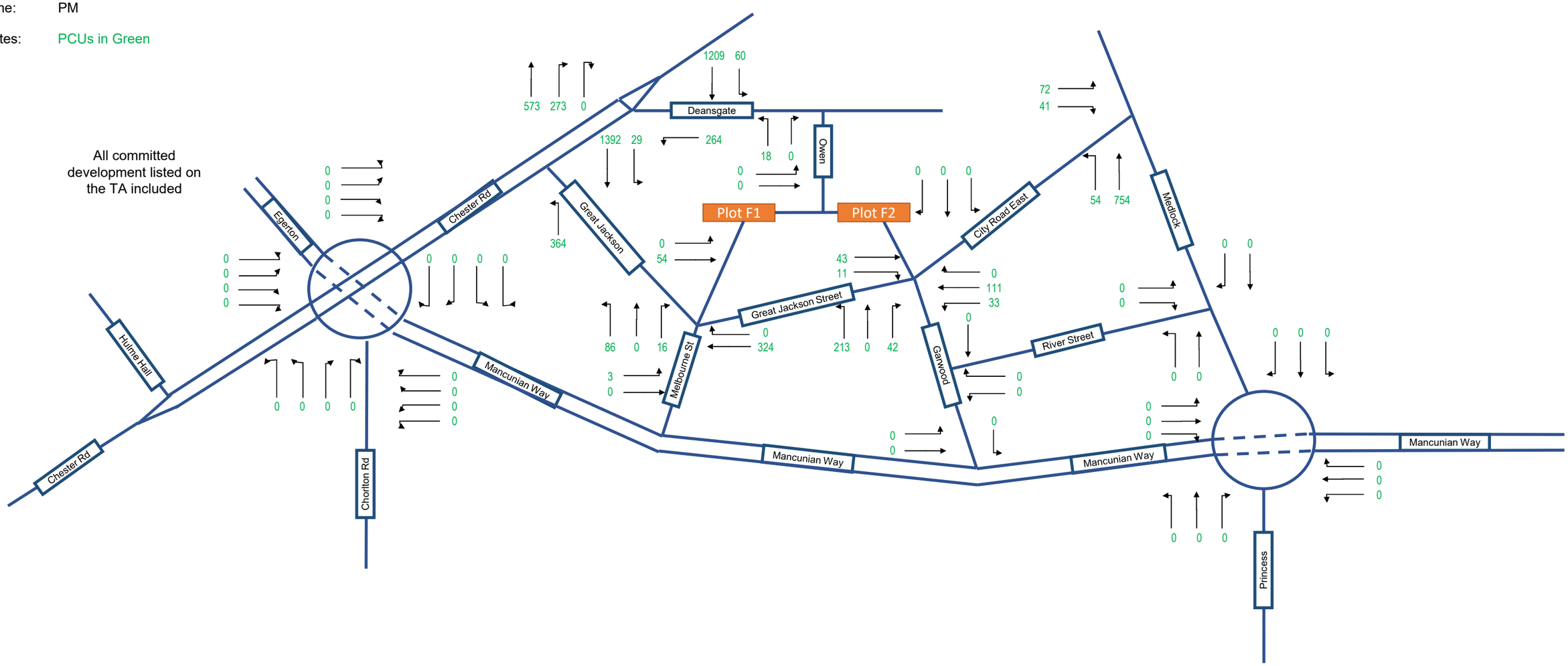
Notes: PCUs in Green



78616 Plot F - Great Jackson Street

Fig 004: 2028 Base + Committed Development Trips
Time: PM

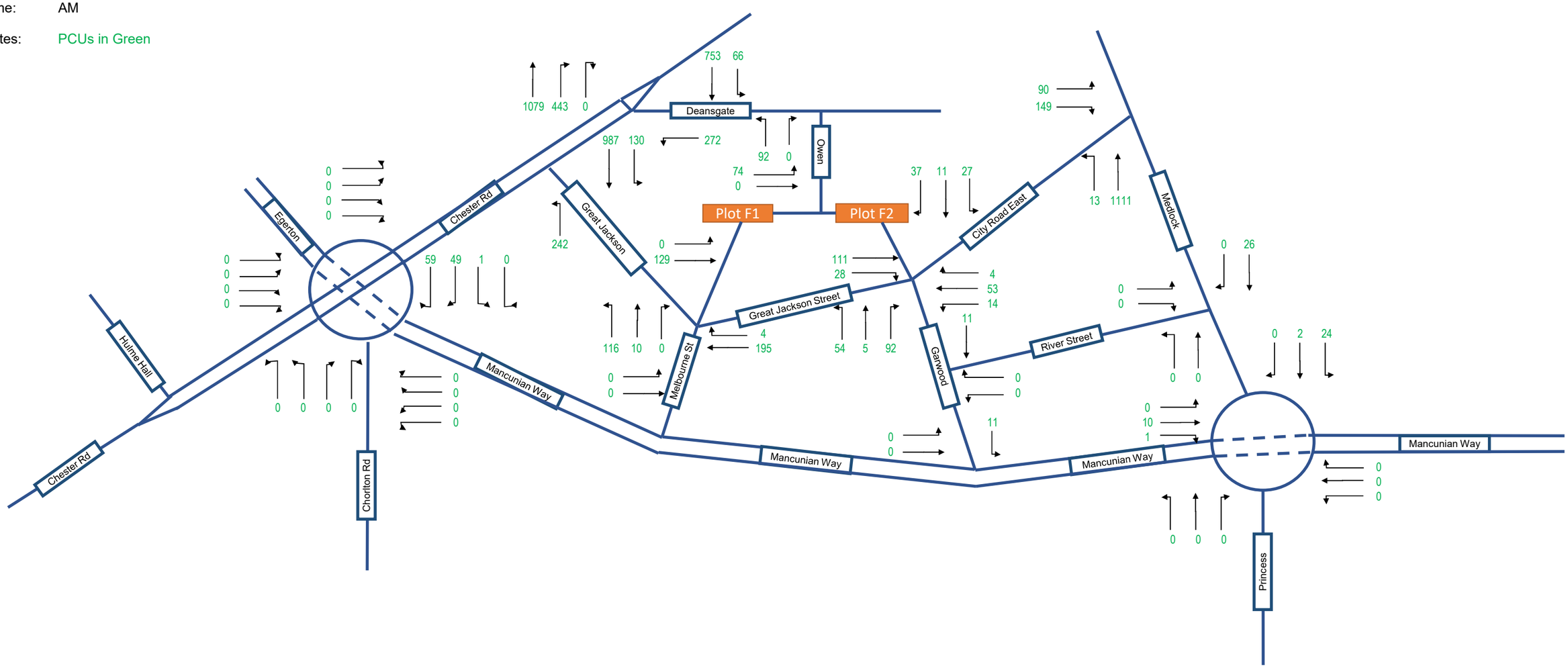
Notes: PCUs in Green



78616 Plot F - Great Jackson Street

Fig 005: 2028 Base + Net Development Trips + Committed Development
Time: AM

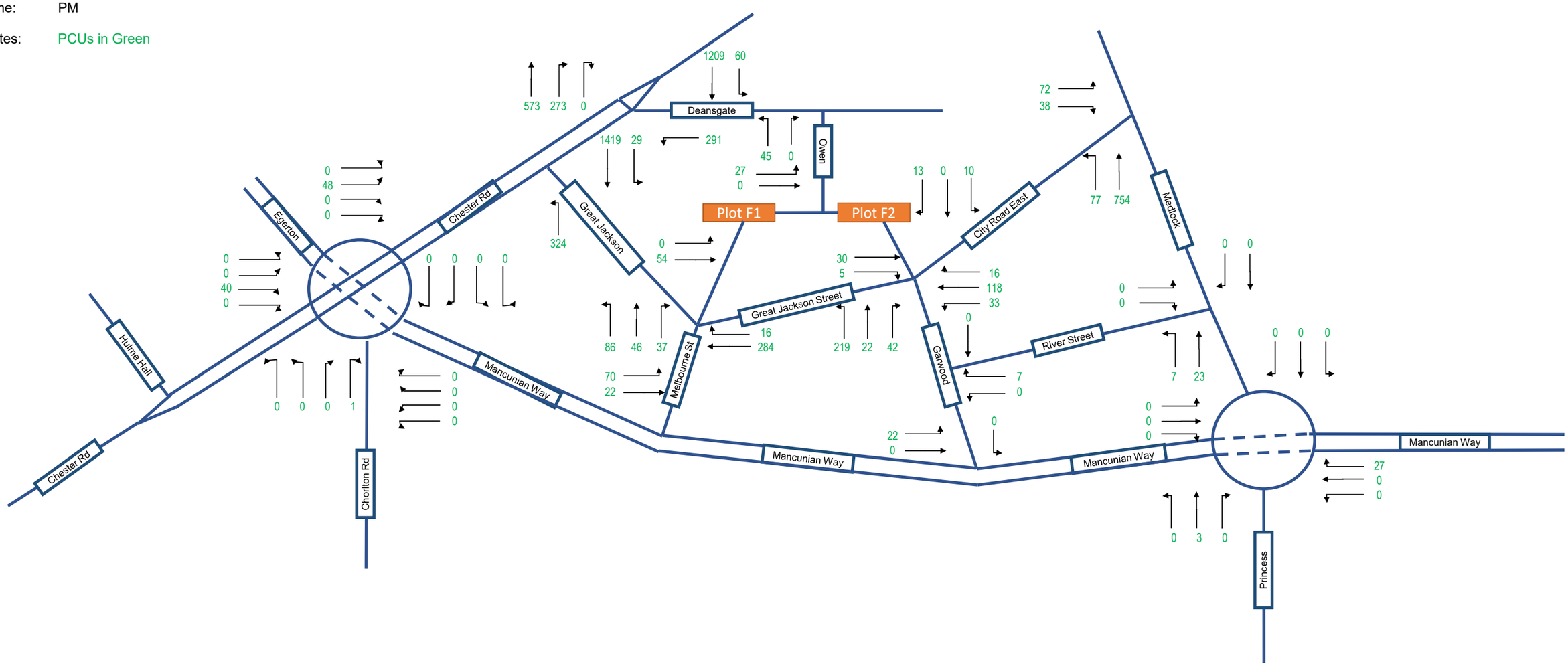
Notes: PCUs in Green



78616 Plot F - Great Jackson Street

Fig 006: 2028 Base + Net Development Trips + Committed Development
Time: PM

Notes: PCUs in Green



Appendix C – TRICS Output

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
Category : C - FLATS PRIVATELY OWNED
MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

02	SOUTH EAST		
	BD	BEDFORDSHIRE	3 days
	EX	ESSEX	2 days
	HC	HAMPSHIRE	1 days
	HF	HERTFORDSHIRE	1 days
04	EAST ANGLIA		
	SF	SUFFOLK	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Primary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: No of Dwellings
Actual Range: 6 to 175 (units:)
Range Selected by User: 6 to 500 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:
Selection by: Include all surveys

Date Range: 01/01/13 to 18/11/19

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Tuesday	6 days
Thursday	2 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	8 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

Selected Locations:

Edge of Town Centre	8

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Residential Zone	4
Built-Up Zone	3
No Sub Category	1

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Secondary Filtering selection:

Use Class:

C3	8 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

15,001 to 20,000	1 days
25,001 to 50,000	7 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

50,001 to 75,000	3 days
125,001 to 250,000	3 days
250,001 to 500,000	2 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.6 to 1.0	2 days
1.1 to 1.5	6 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

Yes	2 days
No	6 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present	8 days

This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	BD-03-C-01 WING ROAD LEIGHTON BUZZARD LINSLADE Edge of Town Centre Residential Zone Total No of Dwellings:	BLOCKS OF FLATS	175	BEDFORDSHIRE
	Survey date: TUESDAY		*15/05/18*	*Survey Type: MANUAL*
2	BD-03-C-02 STANBRIDGE ROAD LEIGHTON BUZZARD Edge of Town Centre Residential Zone Total No of Dwellings:	BLOCKS OF FLATS	62	BEDFORDSHIRE
	Survey date: TUESDAY		*15/05/18*	*Survey Type: MANUAL*
3	BD-03-C-03 COURT DRIVE DUNSTABLE Edge of Town Centre No Sub Category Total No of Dwellings:	BLOCKS OF FLATS	146	BEDFORDSHIRE
	Survey date: TUESDAY		*15/05/18*	*Survey Type: MANUAL*
4	EX-03-C-01 WESTCLIFF PARADE SOUTHEND-ON-SEA WESTCLIFF Edge of Town Centre Residential Zone Total No of Dwellings:	FLATS	6	ESSEX
	Survey date: TUESDAY		*22/10/13*	*Survey Type: MANUAL*
5	EX-03-C-02 WESTCLIFF PARADE SOUTHEND-ON-SEA WESTCLIFF Edge of Town Centre Residential Zone Total No of Dwellings:	BLOCK OF FLATS	94	ESSEX
	Survey date: TUESDAY		*22/10/13*	*Survey Type: MANUAL*
6	HC-03-C-01 CROSS STREET PORTSMOUTH Edge of Town Centre Built-Up Zone Total No of Dwellings:	BLOCKS OF FLATS	90	HAMPSHIRE
	Survey date: TUESDAY		*05/06/18*	*Survey Type: MANUAL*
7	HF-03-C-03 SHENLEY ROAD BOREHAMWOOD Edge of Town Centre Built-Up Zone Total No of Dwellings:	BLOCK OF FLATS	91	HERTFORDSHIRE
	Survey date: THURSDAY		*14/11/19*	*Survey Type: MANUAL*
8	SF-03-C-01 STATION HILL BURY ST EDMUNDS Edge of Town Centre Built-Up Zone Total No of Dwellings:	BLOCKS OF FLATS	85	SUFFOLK
	Survey date: THURSDAY		*18/12/14*	*Survey Type: MANUAL*

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED
MULTI-MODAL TOTAL PEOPLE
Calculation factor: 1 DWELLS
BOLD print indicates peak (busiest) period

	ARRIVALS			DEPARTURES			TOTALS		
Time Range	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	8	94	0.065	8	94	0.386	8	94	0.451
08:00 - 09:00	8	94	0.099	8	94	0.529	8	94	0.628
09:00 - 10:00	8	94	0.113	8	94	0.194	8	94	0.307
10:00 - 11:00	8	94	0.158	8	94	0.179	8	94	0.337
11:00 - 12:00	8	94	0.119	8	94	0.155	8	94	0.274
12:00 - 13:00	8	94	0.231	8	94	0.230	8	94	0.461
13:00 - 14:00	8	94	0.190	8	94	0.172	8	94	0.362
14:00 - 15:00	8	94	0.150	8	94	0.150	8	94	0.300
15:00 - 16:00	8	94	0.259	8	94	0.151	8	94	0.410
16:00 - 17:00	8	94	0.318	8	94	0.154	8	94	0.472
17:00 - 18:00	8	94	0.435	8	94	0.191	8	94	0.626
18:00 - 19:00	8	94	0.475	8	94	0.212	8	94	0.687
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.612			2.703			5.315

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

*To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.*

Appendix D – Junction Capacity Assessment Results

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.2.5947
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+44 (0)1344 770558 software@trl.co.uk www.trlsoftware.co.uk

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Filename: A56 Chester Road - Deansgate.j9
Path: \\mafs02\Projects\078001 - 079000\078616 - Renaker Build - Plot F\Q3-Design\3A-Calculations\TP\Capacity Assessments
Report generation date: 05/07/2021 11:20:20

»2028 Base, AM
»2028 Base, PM
»2028 Base (inc. Comm Dev), AM
»2028 Base (inc. Comm Dev), PM
»2028 Base + Dev, AM
»2028 Base + Dev, PM

Summary of junction performance

	AM						PM					
	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Network Residual Capacity	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Network Residual Capacity
2028 Base												
Stream B-AC	0.6	10.59	0.35	B	13.39	-2 % [Stream C-AB]	1.4	19.65	0.57	C	4.69	16 % [Stream C-AB]
Stream C-AB	19.8	40.93	0.92	E			2.3	22.09	0.65	C		
2028 Base (inc. Comm Dev)												
Stream B-AC	0.7	11.21	0.38	B	16.97	-4 % [Stream C-AB]	1.7	21.84	0.62	C	5.65	11 % [Stream C-AB]
Stream C-AB	25.0	49.07	0.94	E			3.1	24.57	0.71	C		
2028 Base + Dev												
Stream B-AC	1.2	14.56	0.52	B	17.15	-4 % [Stream C-AB]	2.2	26.04	0.68	D	6.34	7 % [Stream B-AC]
Stream C-AB	25.0	49.07	0.94	E			3.1	24.57	0.71	C		

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	29/06/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	CURTINS\thorley_m
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75			✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2028 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2028 Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2028 Base (inc. Comm Dev)	AM	ONE HOUR	07:45	09:15	15	✓
D4	2028 Base (inc. Comm Dev)	PM	ONE HOUR	16:45	18:15	15	✓
D5	2028 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2028 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2028 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	A56 Chester Road - Deansgate	T-Junction	Two-way	13.39	B

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-2	Stream C-AB

Arms

Arms

Arm	Name	Description	Arm type
A	A56 Chester Rd (N)		Major
B	Deansgate		Minor
C	A56 Chester Rd (S)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - A56 Chester Rd (S)	13.00	✓	2.00	✓	2.50	150.0	✓	5.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Deansgate	One lane	4.50	100	35

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	634	0.077	0.194	0.122	0.277
1	B-C	743	0.079	0.200	-	-
1	C-B	682	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2028 Base	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	815	100.000
B - Deansgate		ONE HOUR	✓	180	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	1512	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	64	751
	B - Deansgate	0	0	180
	C - A56 Chester Rd (S)	1079	433	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Deansgate	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.35	10.59	0.6	B	165	248
C-AB	0.92	40.93	19.8	E	710	1065
C-A					678	1016
A-B					59	88
A-C					689	1034

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	136	34	626	0.216	134	0.0	0.3	8.035	A
C-AB	363	91	634	0.572	357	0.0	1.6	14.039	B
C-A	776	194			776				
A-B	48	12			48				
A-C	565	141			565				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	162	40	603	0.268	161	0.3	0.4	8.954	A
C-AB	535	134	753	0.711	529	1.6	3.2	17.510	C
C-A	824	206			824				
A-B	58	14			58				
A-C	675	169			675				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	198	50	572	0.347	197	0.4	0.6	10.557	B
C-AB	1231	308	1336	0.921	1184	3.2	15.1	26.519	D
C-A	433	108			433				
A-B	70	18			70				
A-C	827	207			827				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	198	50	572	0.347	198	0.6	0.6	10.594	B
C-AB	1231	308	1336	0.921	1212	15.1	19.8	40.928	E
C-A	433	108			433				
A-B	70	18			70				
A-C	827	207			827				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	162	40	603	0.268	162	0.6	0.4	8.999	A
C-AB	535	134	753	0.711	597	19.8	4.3	35.856	E
C-A	824	206			824				
A-B	58	14			58				
A-C	675	169			675				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	136	34	626	0.216	136	0.4	0.3	8.088	A
C-AB	363	91	634	0.572	373	4.3	1.7	15.826	C
C-A	776	194			776				
A-B	48	12			48				
A-C	565	141			565				

2028 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	A56 Chester Road - Deansgate	T-Junction	Two-way	4.69	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	16	Stream C-AB

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2028 Base	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	1263	100.000
B - Deansgate		ONE HOUR	✓	246	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	825	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	55	1208
	B - Deansgate	0	0	246
	C - A56 Chester Rd (S)	573	252	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Deansgate	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.57	19.65	1.4	C	226	339
C-AB	0.65	22.09	2.3	C	254	381
C-A					503	754
A-B					50	76
A-C					1108	1663

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	185	46	558	0.332	183	0.0	0.5	10.514	B
C-AB	192	48	512	0.374	189	0.0	0.6	12.148	B
C-A	430	107			430				
A-B	41	10			41				
A-C	909	227			909				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	221	55	522	0.424	220	0.5	0.8	13.087	B
C-AB	235	59	492	0.478	234	0.6	1.0	15.279	C
C-A	506	127			506				
A-B	49	12			49				
A-C	1086	271			1086				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	271	68	472	0.574	268	0.8	1.4	19.216	C
C-AB	335	84	516	0.650	331	1.0	2.2	21.092	C
C-A	573	143			573				
A-B	61	15			61				
A-C	1330	333			1330				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	271	68	472	0.574	271	1.4	1.4	19.647	C
C-AB	335	84	516	0.650	335	2.2	2.3	22.086	C
C-A	573	143			573				
A-B	61	15			61				
A-C	1330	333			1330				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	221	55	522	0.424	224	1.4	0.8	13.395	B
C-AB	235	59	492	0.478	240	2.3	1.1	16.057	C
C-A	506	127			506				
A-B	49	12			49				
A-C	1086	271			1086				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	185	46	558	0.332	186	0.8	0.6	10.697	B
C-AB	192	48	512	0.374	193	1.1	0.7	12.466	B
C-A	430	107			430				
A-B	41	10			41				
A-C	909	227			909				

2028 Base (inc. Comm Dev), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	A56 Chester Road - Deansgate	T-Junction	Two-way	16.97	C

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-4	Stream C-AB

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2028 Base (inc. Comm Dev)	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	819	100.000
B - Deansgate		ONE HOUR	✓	198	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	1522	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	66	753
	B - Deansgate	0	0	198
	C - A56 Chester Rd (S)	1079	443	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Deansgate	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.38	11.21	0.7	B	182	273
C-AB	0.94	49.07	25.0	E	764	1146
C-A					633	949
A-B					61	91
A-C					691	1036

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	149	37	626	0.238	148	0.0	0.3	8.265	A
C-AB	375	94	641	0.586	369	0.0	1.7	14.309	B
C-A	770	193			770				
A-B	50	12			50				
A-C	567	142			567				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	178	44	603	0.295	178	0.3	0.5	9.302	A
C-AB	565	141	776	0.728	558	1.7	3.5	17.990	C
C-A	803	201			803				
A-B	59	15			59				
A-C	677	169			677				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	218	55	571	0.382	217	0.5	0.7	11.157	B
C-AB	1352	338	1432	0.944	1292	3.5	18.3	29.179	D
C-A	324	81			324				
A-B	73	18			73				
A-C	829	207			829				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	218	55	571	0.382	218	0.7	0.7	11.207	B
C-AB	1352	338	1432	0.944	1325	18.3	25.0	49.068	E
C-A	324	81			324				
A-B	73	18			73				
A-C	829	207			829				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	178	44	603	0.295	179	0.7	0.5	9.358	A
C-AB	565	141	776	0.728	645	25.0	4.9	47.205	E
C-A	803	201			803				
A-B	59	15			59				
A-C	677	169			677				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	149	37	626	0.238	150	0.5	0.3	8.327	A
C-AB	375	94	641	0.586	388	4.9	1.9	16.479	C
C-A	770	193			770				
A-B	50	12			50				
A-C	567	142			567				

2028 Base (inc. Comm Dev), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	A56 Chester Road - Deansgate	T-Junction	Two-way	5.65	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	11	Stream C-AB

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2028 Base (inc. Comm Dev)	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	1269	100.000
B - Deansgate		ONE HOUR	✓	264	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	846	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	60	1209
	B - Deansgate	0	0	264
	C - A56 Chester Rd (S)	573	273	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Deansgate	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.62	21.84	1.7	C	242	363
C-AB	0.71	24.57	3.1	C	287	430
C-A					490	735
A-B					55	83
A-C					1109	1664

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	199	50	557	0.357	196	0.0	0.6	10.905	B
C-AB	208	52	514	0.406	205	0.0	0.7	12.725	B
C-A	428	107			428				
A-B	45	11			45				
A-C	910	228			910				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	237	59	521	0.455	236	0.6	0.9	13.836	B
C-AB	259	65	499	0.519	257	0.7	1.2	16.288	C
C-A	502	125			502				
A-B	54	13			54				
A-C	1087	272			1087				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	291	73	471	0.617	288	0.9	1.7	21.198	C
C-AB	392	98	555	0.706	386	1.2	2.9	22.898	C
C-A	539	135			539				
A-B	66	17			66				
A-C	1331	333			1331				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	291	73	471	0.617	290	1.7	1.7	21.844	C
C-AB	392	98	555	0.706	392	2.9	3.1	24.566	C
C-A	539	135			539				
A-B	66	17			66				
A-C	1331	333			1331				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	237	59	521	0.455	240	1.7	0.9	14.256	B
C-AB	259	65	499	0.519	266	3.1	1.3	17.574	C
C-A	502	125			502				
A-B	54	13			54				
A-C	1087	272			1087				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	199	50	557	0.357	200	0.9	0.6	11.130	B
C-AB	208	52	514	0.406	211	1.3	0.8	13.147	B
C-A	428	107			428				
A-B	45	11			45				
A-C	910	228			910				

2028 Base + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	A56 Chester Road - Deansgate	T-Junction	Two-way	17.15	C

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-4	Stream C-AB

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2028 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	819	100.000
B - Deansgate		ONE HOUR	✓	272	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	1522	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	66	753
	B - Deansgate	0	0	272
	C - A56 Chester Rd (S)	1079	443	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Deansgate	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.52	14.56	1.2	B	250	374
C-AB	0.94	49.07	25.0	E	764	1146
C-A					633	949
A-B					61	91
A-C					691	1036

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	205	51	626	0.327	203	0.0	0.5	9.317	A
C-AB	375	94	641	0.586	369	0.0	1.7	14.309	B
C-A	770	193			770				
A-B	50	12			50				
A-C	567	142			567				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	245	61	603	0.406	244	0.5	0.7	11.001	B
C-AB	565	141	776	0.728	558	1.7	3.5	17.990	C
C-A	803	201			803				
A-B	59	15			59				
A-C	677	169			677				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	299	75	571	0.524	298	0.7	1.2	14.382	B
C-AB	1352	338	1432	0.944	1292	3.5	18.3	29.179	D
C-A	324	81			324				
A-B	73	18			73				
A-C	829	207			829				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	299	75	571	0.524	299	1.2	1.2	14.556	B
C-AB	1352	338	1432	0.944	1325	18.3	25.0	49.068	E
C-A	324	81			324				
A-B	73	18			73				
A-C	829	207			829				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	245	61	603	0.406	246	1.2	0.8	11.159	B
C-AB	565	141	776	0.728	645	25.0	4.9	47.205	E
C-A	803	201			803				
A-B	59	15			59				
A-C	677	169			677				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	205	51	626	0.327	206	0.8	0.5	9.450	A
C-AB	375	94	641	0.586	388	4.9	1.9	16.479	C
C-A	770	193			770				
A-B	50	12			50				
A-C	567	142			567				

2028 Base + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	A56 Chester Road - Deansgate	T-Junction	Two-way	6.34	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	7	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2028 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	1269	100.000
B - Deansgate		ONE HOUR	✓	291	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	846	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	60	1209
	B - Deansgate	0	0	291
	C - A56 Chester Rd (S)	573	273	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Deansgate	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Deansgate	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.68	26.04	2.2	D	267	401
C-AB	0.71	24.57	3.1	C	287	430
C-A					490	735
A-B					55	83
A-C					1109	1664

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	219	55	557	0.393	216	0.0	0.7	11.526	B
C-AB	208	52	514	0.406	205	0.0	0.7	12.725	B
C-A	428	107			428				
A-B	45	11			45				
A-C	910	228			910				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	262	65	521	0.502	260	0.7	1.1	15.079	C
C-AB	259	65	499	0.519	257	0.7	1.2	16.288	C
C-A	502	125			502				
A-B	54	13			54				
A-C	1087	272			1087				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	320	80	471	0.680	316	1.1	2.2	24.834	C
C-AB	392	98	555	0.706	386	1.2	2.9	22.898	C
C-A	539	135			539				
A-B	66	17			66				
A-C	1331	333			1331				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	320	80	471	0.680	320	2.2	2.2	26.041	D
C-AB	392	98	555	0.706	392	2.9	3.1	24.566	C
C-A	539	135			539				
A-B	66	17			66				
A-C	1331	333			1331				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	262	65	521	0.502	266	2.2	1.1	15.772	C
C-AB	259	65	499	0.519	266	3.1	1.3	17.574	C
C-A	502	125			502				
A-B	54	13			54				
A-C	1087	272			1087				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	219	55	557	0.393	221	1.1	0.7	11.830	B
C-AB	208	52	514	0.406	211	1.3	0.8	13.147	B
C-A	428	107			428				
A-B	45	11			45				
A-C	910	228			910				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.2.5947
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Filename: A56 Chester Road - Great Jackson Street.j9
Path: \\mafs02\Projects\078001 - 079000\078616 - Renaker Build - Plot F\Q3-Design\3A-Calculations\TP\Capacity Assessments
Report generation date: 05/07/2021 11:02:56

»2028 Base, AM
»2028 Base, PM
»2028 Base (inc. Comm Dev), AM
»2028 Base (inc. Comm Dev), PM
»2028 Base + Dev, AM
»2028 Base + Dev, PM

Summary of junction performance

	AM						PM					
	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Network Residual Capacity	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Network Residual Capacity
2028 Base												
Stream B-AC	0.4	9.11	0.28	A	1.18	94 % [Stream B-AC]	1.7	19.85	0.62	C	3.41	15 % [Stream B-AC]
Stream C-B	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
2028 Base (inc. Comm Dev)												
Stream B-AC	0.7	10.73	0.38	B	1.78	63 % [Stream B-AC]	3.6	33.63	0.78	D	6.86	1 % [Stream B-AC]
Stream C-B	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
2028 Base + Dev												
Stream B-AC	0.9	12.46	0.46	B	2.22	45 % [Stream B-AC]	2.4	25.52	0.70	D	4.67	7 % [Stream B-AC]
Stream C-B	0.0	0.00	0.00	A			0.0	0.00	0.00	A		

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	29/06/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	CURTINS\thorley_m
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75			✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2028 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2028 Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2028 Base (inc. Comm Dev)	AM	ONE HOUR	07:45	09:15	15	✓
D4	2028 Base (inc. Comm Dev)	PM	ONE HOUR	16:45	18:15	15	✓
D5	2028 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2028 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2028 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
2	A56 Chester Road - Great Jackson Street	T-Junction	One-way from A to C	1.18	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	94	Stream B-AC

Arms

Arms

Arm	Name	Description	Arm type
A	A56 Chester Rd (N)		Major
B	Great Jackson Street		Minor
C	A56 Chester Rd (S)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - A56 Chester Rd (S)	8.00	✓	2.00	✓				

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Great Jackson Street	One lane	5.00	40	40

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
2	B-A	640	0.063	0.159	0.100	0.228
2	B-C	779	0.067	0.171	-	-
2	C-B	593	0.130	0.130	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2028 Base	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	1021	100.000
B - Great Jackson Street		ONE HOUR	✓	152	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	128	893
	B - Great Jackson Street	0	0	152
	C - A56 Chester Rd (S)	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Great Jackson Street	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.28	9.11	0.4	A	139	209
C-A					0	0
C-B	0.00	0.00	0.0	A	0	0
A-B					117	176
A-C					819	1229

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	114	29	658	0.174	114	0.0	0.2	7.262	A
C-A	0	0			0				
C-B	0	0	493	0.000	0	0.0	0.0	0.000	A
A-B	96	24			96				
A-C	672	168			672				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	137	34	634	0.215	136	0.2	0.3	7.947	A
C-A	0	0			0				
C-B	0	0	474	0.000	0	0.0	0.0	0.000	A
A-B	115	29			115				
A-C	803	201			803				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	167	42	602	0.278	167	0.3	0.4	9.092	A
C-A	0	0			0				
C-B	0	0	447	0.000	0	0.0	0.0	0.000	A
A-B	141	35			141				
A-C	983	246			983				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	167	42	602	0.278	167	0.4	0.4	9.112	A
C-A	0	0			0				
C-B	0	0	447	0.000	0	0.0	0.0	0.000	A
A-B	141	35			141				
A-C	983	246			983				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	137	34	634	0.215	137	0.4	0.3	7.971	A
C-A	0	0			0				
C-B	0	0	474	0.000	0	0.0	0.0	0.000	A
A-B	115	29			115				
A-C	803	201			803				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	114	29	658	0.174	115	0.3	0.2	7.295	A
C-A	0	0			0				
C-B	0	0	493	0.000	0	0.0	0.0	0.000	A
A-B	96	24			96				
A-C	672	168			672				

2028 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
2	A56 Chester Road - Great Jackson Street	T-Junction	One-way from A to C	3.41	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	15	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2028 Base	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	1401	100.000
B - Great Jackson Street		ONE HOUR	✓	291	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	28	1373
	B - Great Jackson Street	0	0	291
	C - A56 Chester Rd (S)	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Great Jackson Street	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.62	19.85	1.7	C	267	401
C-A					0	0
C-B	0.00	0.00	0.0	A	0	0
A-B					26	39
A-C					1260	1890

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	219	55	601	0.364	217	0.0	0.6	10.227	B
C-A	0	0			0				
C-B	0	0	456	0.000	0	0.0	0.0	0.000	A
A-B	21	5			21				
A-C	1034	258			1034				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	262	65	567	0.461	260	0.6	0.9	12.868	B
C-A	0	0			0				
C-B	0	0	429	0.000	0	0.0	0.0	0.000	A
A-B	25	6			25				
A-C	1234	309			1234				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	320	80	519	0.617	317	0.9	1.7	19.321	C
C-A	0	0			0				
C-B	0	0	393	0.000	0	0.0	0.0	0.000	A
A-B	31	8			31				
A-C	1512	378			1512				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	320	80	519	0.617	320	1.7	1.7	19.852	C
C-A	0	0			0				
C-B	0	0	393	0.000	0	0.0	0.0	0.000	A
A-B	31	8			31				
A-C	1512	378			1512				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	262	65	567	0.461	265	1.7	1.0	13.229	B
C-A	0	0			0				
C-B	0	0	429	0.000	0	0.0	0.0	0.000	A
A-B	25	6			25				
A-C	1234	309			1234				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	219	55	601	0.364	220	1.0	0.6	10.428	B
C-A	0	0			0				
C-B	0	0	456	0.000	0	0.0	0.0	0.000	A
A-B	21	5			21				
A-C	1034	258			1034				

2028 Base (inc. Comm Dev), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
2	A56 Chester Road - Great Jackson Street	T-Junction	One-way from A to C	1.78	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	63	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2028 Base (inc. Comm Dev)	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	1043	100.000
B - Great Jackson Street		ONE HOUR	✓	208	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	130	913
	B - Great Jackson Street	0	0	208
	C - A56 Chester Rd (S)	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Great Jackson Street	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.38	10.73	0.7	B	191	286
C-A					0	0
C-B	0.00	0.00	0.0	A	0	0
A-B					119	179
A-C					838	1257

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	157	39	655	0.239	155	0.0	0.3	7.898	A
C-A	0	0			0				
C-B	0	0	491	0.000	0	0.0	0.0	0.000	A
A-B	98	24			98				
A-C	687	172			687				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	187	47	631	0.296	187	0.3	0.5	8.896	A
C-A	0	0			0				
C-B	0	0	471	0.000	0	0.0	0.0	0.000	A
A-B	117	29			117				
A-C	821	205			821				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	229	57	598	0.383	228	0.5	0.7	10.673	B
C-A	0	0			0				
C-B	0	0	444	0.000	0	0.0	0.0	0.000	A
A-B	143	36			143				
A-C	1005	251			1005				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	229	57	598	0.383	229	0.7	0.7	10.729	B
C-A	0	0			0				
C-B	0	0	444	0.000	0	0.0	0.0	0.000	A
A-B	143	36			143				
A-C	1005	251			1005				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	187	47	631	0.296	188	0.7	0.5	8.946	A
C-A	0	0			0				
C-B	0	0	471	0.000	0	0.0	0.0	0.000	A
A-B	117	29			117				
A-C	821	205			821				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	157	39	655	0.239	157	0.5	0.3	7.956	A
C-A	0	0			0				
C-B	0	0	491	0.000	0	0.0	0.0	0.000	A
A-B	98	24			98				
A-C	687	172			687				

2028 Base (inc. Comm Dev), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
2	A56 Chester Road - Great Jackson Street	T-Junction	One-way from A to C	6.86	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	1	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2028 Base (inc. Comm Dev)	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	1421	100.000
B - Great Jackson Street		ONE HOUR	✓	364	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	29	1392
	B - Great Jackson Street	0	0	364
	C - A56 Chester Rd (S)	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Great Jackson Street	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.78	33.63	3.6	D	334	501
C-A					0	0
C-B	0.00	0.00	0.0	A	0	0
A-B					27	40
A-C					1277	1916

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	274	69	599	0.458	270	0.0	0.9	11.929	B
C-A	0	0			0				
C-B	0	0	454	0.000	0	0.0	0.0	0.000	A
A-B	22	5			22				
A-C	1048	262			1048				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	327	82	564	0.580	325	0.9	1.5	16.415	C
C-A	0	0			0				
C-B	0	0	427	0.000	0	0.0	0.0	0.000	A
A-B	26	7			26				
A-C	1251	313			1251				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	401	100	516	0.777	393	1.5	3.3	30.606	D
C-A	0	0			0				
C-B	0	0	390	0.000	0	0.0	0.0	0.000	A
A-B	32	8			32				
A-C	1533	383			1533				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	401	100	516	0.777	400	3.3	3.6	33.631	D
C-A	0	0			0				
C-B	0	0	390	0.000	0	0.0	0.0	0.000	A
A-B	32	8			32				
A-C	1533	383			1533				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	327	82	564	0.580	335	3.6	1.6	17.854	C
C-A	0	0			0				
C-B	0	0	427	0.000	0	0.0	0.0	0.000	A
A-B	26	7			26				
A-C	1251	313			1251				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	274	69	599	0.458	277	1.6	1.0	12.381	B
C-A	0	0			0				
C-B	0	0	454	0.000	0	0.0	0.0	0.000	A
A-B	22	5			22				
A-C	1048	262			1048				

2028 Base + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
2	A56 Chester Road - Great Jackson Street	T-Junction	One-way from A to C	2.22	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	45	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2028 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	1117	100.000
B - Great Jackson Street		ONE HOUR	✓	242	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	130	987
	B - Great Jackson Street	0	0	242
	C - A56 Chester Rd (S)	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Great Jackson Street	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.46	12.46	0.9	B	222	333
C-A					0	0
C-B	0.00	0.00	0.0	A	0	0
A-B					119	179
A-C					906	1359

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	182	46	646	0.282	180	0.0	0.4	8.482	A
C-A	0	0			0				
C-B	0	0	484	0.000	0	0.0	0.0	0.000	A
A-B	98	24			98				
A-C	743	186			743				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	218	54	620	0.351	217	0.4	0.6	9.812	A
C-A	0	0			0				
C-B	0	0	462	0.000	0	0.0	0.0	0.000	A
A-B	117	29			117				
A-C	888	222			888				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	266	67	584	0.456	265	0.6	0.9	12.367	B
C-A	0	0			0				
C-B	0	0	433	0.000	0	0.0	0.0	0.000	A
A-B	143	36			143				
A-C	1087	272			1087				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	266	67	584	0.456	266	0.9	0.9	12.462	B
C-A	0	0			0				
C-B	0	0	433	0.000	0	0.0	0.0	0.000	A
A-B	143	36			143				
A-C	1087	272			1087				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	218	54	620	0.351	219	0.9	0.6	9.905	A
C-A	0	0			0				
C-B	0	0	462	0.000	0	0.0	0.0	0.000	A
A-B	117	29			117				
A-C	888	222			888				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	182	46	646	0.282	183	0.6	0.4	8.567	A
C-A	0	0			0				
C-B	0	0	484	0.000	0	0.0	0.0	0.000	A
A-B	98	24			98				
A-C	743	186			743				

2028 Base + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
2	A56 Chester Road - Great Jackson Street	T-Junction	One-way from A to C	4.67	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	7	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2028 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A56 Chester Rd (N)		ONE HOUR	✓	1448	100.000
B - Great Jackson Street		ONE HOUR	✓	324	100.000
C - A56 Chester Rd (S)		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	0	29	1419
	B - Great Jackson Street	0	0	324
	C - A56 Chester Rd (S)	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - A56 Chester Rd (N)	B - Great Jackson Street	C - A56 Chester Rd (S)
From	A - A56 Chester Rd (N)	10	10	10
	B - Great Jackson Street	10	10	10
	C - A56 Chester Rd (S)	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.70	25.52	2.4	D	297	446
C-A					0	0
C-B	0.00	0.00	0.0	A	0	0
A-B					27	40
A-C					1302	1953

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	244	61	595	0.410	241	0.0	0.7	11.084	B
C-A	0	0			0				
C-B	0	0	451	0.000	0	0.0	0.0	0.000	A
A-B	22	5			22				
A-C	1068	267			1068				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	291	73	560	0.520	290	0.7	1.2	14.566	B
C-A	0	0			0				
C-B	0	0	424	0.000	0	0.0	0.0	0.000	A
A-B	26	7			26				
A-C	1275	319			1275				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	357	89	511	0.699	352	1.2	2.4	24.254	C
C-A	0	0			0				
C-B	0	0	386	0.000	0	0.0	0.0	0.000	A
A-B	32	8			32				
A-C	1562	391			1562				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	357	89	511	0.699	356	2.4	2.4	25.521	D
C-A	0	0			0				
C-B	0	0	386	0.000	0	0.0	0.0	0.000	A
A-B	32	8			32				
A-C	1562	391			1562				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	291	73	560	0.520	296	2.4	1.2	15.278	C
C-A	0	0			0				
C-B	0	0	424	0.000	0	0.0	0.0	0.000	A
A-B	26	7			26				
A-C	1275	319			1275				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	244	61	595	0.410	246	1.2	0.8	11.380	B
C-A	0	0			0				
C-B	0	0	451	0.000	0	0.0	0.0	0.000	A
A-B	22	5			22				
A-C	1068	267			1068				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.2.5947
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Filename: Great Jackson Street - Garwood Street.j9
Path: \\mafs02\Projects\078001 - 079000\078616 - Renaker Build - Plot F\Q3-Design\3A-Calculations\TP\Capacity Assessments
Report generation date: 05/07/2021 11:55:58

»2028 Base, AM
»2028 Base, PM
»2028 Base (inc. Comm Dev), AM
»2028 Base (inc. Comm Dev), PM
»2028 Base + Dev, AM
»2028 Base + Dev, PM

Summary of junction performance

	AM						PM					
	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Network Residual Capacity	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Network Residual Capacity
	2028 Base											
Stream B-ACD	0.4	8.89	0.29	A	4.32	149 % [Stream B-ACD]	0.7	9.44	0.40	A	5.48	96 % [Stream B-ACD]
Stream A-BCD	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
Stream D-ABC	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
Stream C-ABD	0.1	6.11	0.05	A			0.0	6.47	0.02	A		
	2028 Base (inc. Comm Dev)											
Stream B-ACD	0.4	8.89	0.29	A	4.32	149 % [Stream B-ACD]	0.7	9.44	0.40	A	5.48	96 % [Stream B-ACD]
Stream A-BCD	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
Stream D-ABC	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
Stream C-ABD	0.1	6.11	0.05	A			0.0	6.47	0.02	A		
	2028 Base + Dev											
Stream B-ACD	0.4	9.14	0.28	A	5.33	142 % [Stream B-ACD]	0.9	10.65	0.46	B	6.64	74 % [Stream B-ACD]
Stream A-BCD	0.0	6.82	0.01	A			0.1	6.28	0.03	A		
Stream D-ABC	0.2	9.48	0.17	A			0.1	8.49	0.05	A		
Stream C-ABD	0.1	6.10	0.05	A			0.0	6.58	0.01	A		

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	29/06/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	CURTINS\thorley_m
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75			✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2028 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2028 Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2028 Base (inc. Comm Dev)	AM	ONE HOUR	07:45	09:15	15	✓
D4	2028 Base (inc. Comm Dev)	PM	ONE HOUR	16:45	18:15	15	✓
D5	2028 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2028 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2028 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
3	Great Jackson Street - Garwood Street	Crossroads	Two-way	4.32	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	149	Stream B-ACD

Arms

Arms

Arm	Name	Description	Arm type
A	Great Jackson Street (E)		Major
B	Garwood Street		Minor
C	Great Jackson Street (W)		Major
D	Site Access		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - Great Jackson Street (E)	6.00			0.0	✓	0.00
C - Great Jackson Street (W)	6.00			100.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Garwood Street	One lane	5.00	25	40
D - Site Access	One lane	3.50	20	15

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
3	A-D	574	-	-	-	-	-	-	0.222	0.318	0.222	-	-	-
3	B-A	607	0.110	0.279	0.279	-	-	-	0.176	0.399	-	0.279	0.279	0.140
3	B-C	779	0.119	0.302	-	-	-	-	-	-	-	-	-	-
3	B-D, nearside lane	607	0.110	0.279	0.279	-	-	-	0.176	0.399	0.176	-	-	-
3	B-D, offside lane	607	0.110	0.279	0.279	-	-	-	0.176	0.399	0.176	-	-	-
3	C-B	632	0.245	0.245	0.350	-	-	-	-	-	-	-	-	-
3	D-A	665	-	-	-	-	-	-	0.258	-	0.102	-	-	-
3	D-B, nearside lane	516	0.149	0.149	0.339	-	-	-	0.238	0.238	0.094	-	-	-
3	D-B, offside lane	516	0.149	0.149	0.339	-	-	-	0.238	0.238	0.094	-	-	-
3	D-C	516	-	0.149	0.339	0.119	0.238	0.238	0.238	0.238	0.094	-	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2028 Base	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson Street (E)		ONE HOUR	✓	79	100.000
B - Garwood Street		ONE HOUR	✓	162	100.000
C - Great Jackson Street (W)		ONE HOUR	✓	139	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	0	14	65	0
	B - Garwood Street	92	0	70	0
	C - Great Jackson Street (W)	111	28	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	10	10	10	10
	B - Garwood Street	10	10	10	10
	C - Great Jackson Street (W)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.29	8.89	0.4	A	149	223
A-BCD	0.00	0.00	0.0	A	0	0
A-B					13	19
A-C					60	89
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.05	6.11	0.1	A	30	46
C-D					0	0
C-A					97	146

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	122	30	639	0.191	121	0.0	0.3	7.627	A
A-BCD	0	0	549	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	49	12			49				
D-ABC	0	0	509	0.000	0	0.0	0.0	0.000	A
C-ABD	24	6	672	0.036	24	0.0	0.1	6.106	A
C-D	0	0			0				
C-A	81	20			81				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	146	36	633	0.230	145	0.3	0.3	8.123	A
A-BCD	0	0	544	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	58	15			58				
D-ABC	0	0	501	0.000	0	0.0	0.0	0.000	A
C-ABD	30	7	680	0.043	29	0.1	0.1	6.087	A
C-D	0	0			0				
C-A	95	24			95				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	178	45	624	0.286	178	0.3	0.4	8.868	A
A-BCD	0	0	537	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	72	18			72				
D-ABC	0	0	491	0.000	0	0.0	0.0	0.000	A
C-ABD	37	9	691	0.054	37	0.1	0.1	6.055	A
C-D	0	0			0				
C-A	116	29			116				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	178	45	624	0.286	178	0.4	0.4	8.886	A
A-BCD	0	0	537	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	72	18			72				
D-ABC	0	0	491	0.000	0	0.0	0.0	0.000	A
C-ABD	38	9	691	0.054	38	0.1	0.1	6.056	A
C-D	0	0			0				
C-A	116	29			116				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	146	36	633	0.230	146	0.4	0.3	8.145	A
A-BCD	0	0	544	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	58	15			58				
D-ABC	0	0	501	0.000	0	0.0	0.0	0.000	A
C-ABD	30	7	680	0.043	30	0.1	0.1	6.089	A
C-D	0	0			0				
C-A	95	24			95				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	122	30	639	0.191	122	0.3	0.3	7.671	A
A-BCD	0	0	549	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	49	12			49				
D-ABC	0	0	509	0.000	0	0.0	0.0	0.000	A
C-ABD	24	6	672	0.036	24	0.1	0.1	6.110	A
C-D	0	0			0				
C-A	81	20			81				

2028 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
3	Great Jackson Street - Garwood Street	Crossroads	Two-way	5.48	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	96	Stream B-ACD

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2028 Base	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson Street (E)		ONE HOUR	✓	144	100.000
B - Garwood Street		ONE HOUR	✓	255	100.000
C - Great Jackson Street (W)		ONE HOUR	✓	54	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	0	33	111	0
	B - Garwood Street	42	0	213	0
	C - Great Jackson Street (W)	43	11	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	10	10	10	10
	B - Garwood Street	10	10	10	10
	C - Great Jackson Street (W)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.40	9.44	0.7	A	234	351
A-BCD	0.00	0.00	0.0	A	0	0
A-B					30	45
A-C					102	153
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.02	6.47	0.0	A	11	16
C-D					0	0
C-A					39	58

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	192	48	714	0.269	190	0.0	0.4	7.540	A
A-BCD	0	0	564	0.000	0	0.0	0.0	0.000	A
A-B	25	6			25				
A-C	84	21			84				
D-ABC	0	0	512	0.000	0	0.0	0.0	0.000	A
C-ABD	9	2	627	0.014	9	0.0	0.0	6.406	A
C-D	0	0			0				
C-A	32	8			32				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	229	57	708	0.324	229	0.4	0.5	8.253	A
A-BCD	0	0	562	0.000	0	0.0	0.0	0.000	A
A-B	30	7			30				
A-C	100	25			100				
D-ABC	0	0	505	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	626	0.017	11	0.0	0.0	6.434	A
C-D	0	0			0				
C-A	38	10			38				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	281	70	700	0.401	280	0.5	0.7	9.409	A
A-BCD	0	0	560	0.000	0	0.0	0.0	0.000	A
A-B	36	9			36				
A-C	122	31			122				
D-ABC	0	0	495	0.000	0	0.0	0.0	0.000	A
C-ABD	13	3	625	0.021	13	0.0	0.0	6.473	A
C-D	0	0			0				
C-A	46	12			46				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	281	70	700	0.401	281	0.7	0.7	9.444	A
A-BCD	0	0	560	0.000	0	0.0	0.0	0.000	A
A-B	36	9			36				
A-C	122	31			122				
D-ABC	0	0	495	0.000	0	0.0	0.0	0.000	A
C-ABD	13	3	625	0.021	13	0.0	0.0	6.473	A
C-D	0	0			0				
C-A	46	12			46				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	229	57	708	0.324	230	0.7	0.5	8.297	A
A-BCD	0	0	562	0.000	0	0.0	0.0	0.000	A
A-B	30	7			30				
A-C	100	25			100				
D-ABC	0	0	505	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	626	0.017	11	0.0	0.0	6.434	A
C-D	0	0			0				
C-A	38	9			38				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	192	48	714	0.269	192	0.5	0.4	7.603	A
A-BCD	0	0	564	0.000	0	0.0	0.0	0.000	A
A-B	25	6			25				
A-C	84	21			84				
D-ABC	0	0	512	0.000	0	0.0	0.0	0.000	A
C-ABD	9	2	627	0.014	9	0.0	0.0	6.409	A
C-D	0	0			0				
C-A	32	8			32				

2028 Base (inc. Comm Dev), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
3	Great Jackson Street - Garwood Street	Crossroads	Two-way	4.32	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	149	Stream B-ACD

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2028 Base (inc. Comm Dev)	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson Street (E)		ONE HOUR	✓	79	100.000
B - Garwood Street		ONE HOUR	✓	162	100.000
C - Great Jackson Street (W)		ONE HOUR	✓	139	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	0	14	65	0
	B - Garwood Street	92	0	70	0
	C - Great Jackson Street (W)	111	28	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	10	10	10	10
	B - Garwood Street	10	10	10	10
	C - Great Jackson Street (W)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.29	8.89	0.4	A	149	223
A-BCD	0.00	0.00	0.0	A	0	0
A-B					13	19
A-C					60	89
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.05	6.11	0.1	A	30	46
C-D					0	0
C-A					97	146

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	122	30	639	0.191	121	0.0	0.3	7.627	A
A-BCD	0	0	549	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	49	12			49				
D-ABC	0	0	509	0.000	0	0.0	0.0	0.000	A
C-ABD	24	6	672	0.036	24	0.0	0.1	6.106	A
C-D	0	0			0				
C-A	81	20			81				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	146	36	633	0.230	145	0.3	0.3	8.123	A
A-BCD	0	0	544	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	58	15			58				
D-ABC	0	0	501	0.000	0	0.0	0.0	0.000	A
C-ABD	30	7	680	0.043	29	0.1	0.1	6.087	A
C-D	0	0			0				
C-A	95	24			95				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	178	45	624	0.286	178	0.3	0.4	8.868	A
A-BCD	0	0	537	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	72	18			72				
D-ABC	0	0	491	0.000	0	0.0	0.0	0.000	A
C-ABD	37	9	691	0.054	37	0.1	0.1	6.055	A
C-D	0	0			0				
C-A	116	29			116				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	178	45	624	0.286	178	0.4	0.4	8.886	A
A-BCD	0	0	537	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	72	18			72				
D-ABC	0	0	491	0.000	0	0.0	0.0	0.000	A
C-ABD	38	9	691	0.054	38	0.1	0.1	6.056	A
C-D	0	0			0				
C-A	116	29			116				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	146	36	633	0.230	146	0.4	0.3	8.145	A
A-BCD	0	0	544	0.000	0	0.0	0.0	0.000	A
A-B	13	3			13				
A-C	58	15			58				
D-ABC	0	0	501	0.000	0	0.0	0.0	0.000	A
C-ABD	30	7	680	0.043	30	0.1	0.1	6.089	A
C-D	0	0			0				
C-A	95	24			95				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	122	30	639	0.191	122	0.3	0.3	7.671	A
A-BCD	0	0	549	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	49	12			49				
D-ABC	0	0	509	0.000	0	0.0	0.0	0.000	A
C-ABD	24	6	672	0.036	24	0.1	0.1	6.110	A
C-D	0	0			0				
C-A	81	20			81				

2028 Base (inc. Comm Dev), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
3	Great Jackson Street - Garwood Street	Crossroads	Two-way	5.48	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	96	Stream B-ACD

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2028 Base (inc. Comm Dev)	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson Street (E)		ONE HOUR	✓	144	100.000
B - Garwood Street		ONE HOUR	✓	255	100.000
C - Great Jackson Street (W)		ONE HOUR	✓	54	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	0	33	111	0
	B - Garwood Street	42	0	213	0
	C - Great Jackson Street (W)	43	11	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	10	10	10	10
	B - Garwood Street	10	10	10	10
	C - Great Jackson Street (W)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.40	9.44	0.7	A	234	351
A-BCD	0.00	0.00	0.0	A	0	0
A-B					30	45
A-C					102	153
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.02	6.47	0.0	A	11	16
C-D					0	0
C-A					39	58

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	192	48	714	0.269	190	0.0	0.4	7.540	A
A-BCD	0	0	564	0.000	0	0.0	0.0	0.000	A
A-B	25	6			25				
A-C	84	21			84				
D-ABC	0	0	512	0.000	0	0.0	0.0	0.000	A
C-ABD	9	2	627	0.014	9	0.0	0.0	6.406	A
C-D	0	0			0				
C-A	32	8			32				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	229	57	708	0.324	229	0.4	0.5	8.253	A
A-BCD	0	0	562	0.000	0	0.0	0.0	0.000	A
A-B	30	7			30				
A-C	100	25			100				
D-ABC	0	0	505	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	626	0.017	11	0.0	0.0	6.434	A
C-D	0	0			0				
C-A	38	10			38				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	281	70	700	0.401	280	0.5	0.7	9.409	A
A-BCD	0	0	560	0.000	0	0.0	0.0	0.000	A
A-B	36	9			36				
A-C	122	31			122				
D-ABC	0	0	495	0.000	0	0.0	0.0	0.000	A
C-ABD	13	3	625	0.021	13	0.0	0.0	6.473	A
C-D	0	0			0				
C-A	46	12			46				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	281	70	700	0.401	281	0.7	0.7	9.444	A
A-BCD	0	0	560	0.000	0	0.0	0.0	0.000	A
A-B	36	9			36				
A-C	122	31			122				
D-ABC	0	0	495	0.000	0	0.0	0.0	0.000	A
C-ABD	13	3	625	0.021	13	0.0	0.0	6.473	A
C-D	0	0			0				
C-A	46	12			46				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	229	57	708	0.324	230	0.7	0.5	8.297	A
A-BCD	0	0	562	0.000	0	0.0	0.0	0.000	A
A-B	30	7			30				
A-C	100	25			100				
D-ABC	0	0	505	0.000	0	0.0	0.0	0.000	A
C-ABD	11	3	626	0.017	11	0.0	0.0	6.434	A
C-D	0	0			0				
C-A	38	9			38				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	192	48	714	0.269	192	0.5	0.4	7.603	A
A-BCD	0	0	564	0.000	0	0.0	0.0	0.000	A
A-B	25	6			25				
A-C	84	21			84				
D-ABC	0	0	512	0.000	0	0.0	0.0	0.000	A
C-ABD	9	2	627	0.014	9	0.0	0.0	6.409	A
C-D	0	0			0				
C-A	32	8			32				

2028 Base + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
3	Great Jackson Street - Garwood Street	Crossroads	Two-way	5.33	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	142	Stream B-ACD

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2028 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson Street (E)		ONE HOUR	✓	71	100.000
B - Garwood Street		ONE HOUR	✓	151	100.000
C - Great Jackson Street (W)		ONE HOUR	✓	139	100.000
D - Site Access		ONE HOUR	✓	75	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	0	14	53	4
	B - Garwood Street	92	0	54	5
	C - Great Jackson Street (W)	111	28	0	0
	D - Site Access	27	11	37	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	10	10	10	10
	B - Garwood Street	10	10	10	10
	C - Great Jackson Street (W)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.28	9.14	0.4	A	139	208
A-BCD	0.01	6.82	0.0	A	4	6
A-B					13	19
A-C					48	72
D-ABC	0.17	9.48	0.2	A	69	103
C-ABD	0.05	6.10	0.1	A	30	46
C-D					0	0
C-A					97	146

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	114	28	619	0.184	113	0.0	0.2	7.811	A
A-BCD	3	0.82	584	0.006	3	0.0	0.0	6.821	A
A-B	10	3			10				
A-C	40	10			40				
D-ABC	56	14	520	0.109	56	0.0	0.1	8.524	A
C-ABD	24	6	673	0.036	24	0.0	0.1	6.096	A
C-D	0	0			0				
C-A	81	20			81				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	136	34	611	0.222	135	0.2	0.3	8.328	A
A-BCD	4	1	586	0.007	4	0.0	0.0	6.806	A
A-B	12	3			12				
A-C	47	12			47				
D-ABC	67	17	512	0.132	67	0.1	0.2	8.908	A
C-ABD	30	7	682	0.043	29	0.1	0.1	6.072	A
C-D	0	0			0				
C-A	95	24			95				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	166	42	600	0.277	166	0.3	0.4	9.117	A
A-BCD	5	1	589	0.009	5	0.0	0.0	6.784	A
A-B	15	4			15				
A-C	58	14			58				
D-ABC	83	21	500	0.165	82	0.2	0.2	9.470	A
C-ABD	37	9	693	0.054	37	0.1	0.1	6.040	A
C-D	0	0			0				
C-A	116	29			116				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	166	42	600	0.277	166	0.4	0.4	9.136	A
A-BCD	5	1	589	0.009	5	0.0	0.0	6.784	A
A-B	15	4			15				
A-C	58	14			58				
D-ABC	83	21	500	0.165	83	0.2	0.2	9.481	A
C-ABD	37	9	693	0.054	37	0.1	0.1	6.044	A
C-D	0	0			0				
C-A	116	29			116				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	136	34	611	0.222	136	0.4	0.3	8.352	A
A-BCD	4	1	586	0.007	4	0.0	0.0	6.809	A
A-B	12	3			12				
A-C	47	12			47				
D-ABC	67	17	512	0.132	68	0.2	0.2	8.925	A
C-ABD	30	7	682	0.043	30	0.1	0.1	6.077	A
C-D	0	0			0				
C-A	95	24			95				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	114	28	619	0.184	114	0.3	0.3	7.851	A
A-BCD	3	0.82	584	0.006	3	0.0	0.0	6.822	A
A-B	10	3			10				
A-C	40	10			40				
D-ABC	56	14	520	0.109	57	0.2	0.1	8.551	A
C-ABD	24	6	673	0.036	24	0.1	0.1	6.102	A
C-D	0	0			0				
C-A	81	20			81				

2028 Base + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
3	Great Jackson Street - Garwood Street	Crossroads	Two-way	6.64	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	74	Stream B-ACD

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2028 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson Street (E)		ONE HOUR	✓	167	100.000
B - Garwood Street		ONE HOUR	✓	283	100.000
C - Great Jackson Street (W)		ONE HOUR	✓	35	100.000
D - Site Access		ONE HOUR	✓	23	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	0	33	118	16
	B - Garwood Street	42	0	219	22
	C - Great Jackson Street (W)	30	5	0	0
	D - Site Access	10	0	13	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson Street (E)	B - Garwood Street	C - Great Jackson Street (W)	D - Site Access
From	A - Great Jackson Street (E)	10	10	10	10
	B - Garwood Street	10	10	10	10
	C - Great Jackson Street (W)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.46	10.65	0.9	B	260	390
A-BCD	0.03	6.28	0.1	A	19	28
A-B					29	44
A-C					105	158
D-ABC	0.05	8.49	0.1	A	21	32
C-ABD	0.01	6.58	0.0	A	5	7
C-D					0	0
C-A					27	41

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	213	53	699	0.305	211	0.0	0.5	8.089	A
A-BCD	15	4	646	0.023	14	0.0	0.0	6.275	A
A-B	24	6			24				
A-C	87	22			87				
D-ABC	17	4	519	0.033	17	0.0	0.0	7.893	A
C-ABD	4	0.98	615	0.006	4	0.0	0.0	6.480	A
C-D	0	0			0				
C-A	22	6			22				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	254	64	692	0.367	254	0.5	0.6	9.017	A
A-BCD	18	5	660	0.028	18	0.0	0.0	6.173	A
A-B	29	7			29				
A-C	103	26			103				
D-ABC	21	5	507	0.041	21	0.0	0.0	8.135	A
C-ABD	5	1	612	0.008	5	0.0	0.0	6.523	A
C-D	0	0			0				
C-A	27	7			27				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	312	78	683	0.456	310	0.6	0.9	10.588	B
A-BCD	23	6	679	0.034	23	0.0	0.1	6.039	A
A-B	35	9			35				
A-C	125	31			125				
D-ABC	25	6	492	0.051	25	0.0	0.1	8.484	A
C-ABD	6	1	607	0.010	6	0.0	0.0	6.583	A
C-D	0	0			0				
C-A	33	8			33				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	312	78	683	0.456	312	0.9	0.9	10.650	B
A-BCD	23	6	679	0.034	23	0.1	0.1	6.042	A
A-B	35	9			35				
A-C	125	31			125				
D-ABC	25	6	492	0.052	25	0.1	0.1	8.490	A
C-ABD	6	1	607	0.010	6	0.0	0.0	6.583	A
C-D	0	0			0				
C-A	33	8			33				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	254	64	692	0.367	255	0.9	0.6	9.086	A
A-BCD	18	5	660	0.028	18	0.1	0.0	6.176	A
A-B	29	7			29				
A-C	103	26			103				
D-ABC	21	5	507	0.041	21	0.1	0.0	8.142	A
C-ABD	5	1	612	0.008	5	0.0	0.0	6.526	A
C-D	0	0			0				
C-A	27	7			27				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	213	53	699	0.305	214	0.6	0.5	8.175	A
A-BCD	15	4	646	0.023	15	0.0	0.0	6.279	A
A-B	24	6			24				
A-C	87	22			87				
D-ABC	17	4	518	0.033	17	0.0	0.0	7.908	A
C-ABD	4	0.98	615	0.006	4	0.0	0.0	6.483	A
C-D	0	0			0				
C-A	22	6			22				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.2.5947
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Filename: Great Jackson Street - Melbourne Street - Site Access.j9
Path: \\mafs02\Projects\078001 - 079000\078616 - Renaker Build - Plot F\Q3-Design\3A-Calculations\TP\Capacity Assessments
Report generation date: 05/07/2021 12:01:28

»2028 Base, AM
»2028 Base, PM
»2028 Base (inc. Comm Dev), AM
»2028 Base (inc. Comm Dev), PM
»2028 Base + Dev, AM
»2028 Base + Dev, PM

Summary of junction performance

	AM						PM					
	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Network Residual Capacity	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Network Residual Capacity
2028 Base												
Stream B-ACD	0.1	7.56	0.05	A	0.63	531 % [Stream B-ACD]	0.0	0.00	0.00	A	0.00	900 % []
Stream A-BCD	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
Stream D-ABC	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
Stream C-ABD	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
2028 Base (inc. Comm Dev)												
Stream B-ACD	0.4	8.85	0.26	A	2.89	166 % [Stream B-ACD]	0.3	8.71	0.20	A	1.85	172 % [Stream B-ACD]
Stream A-BCD	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
Stream D-ABC	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
Stream C-ABD	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
2028 Base + Dev												
Stream B-ACD	0.3	8.32	0.23	A	2.38	189 % [Stream B-ACD]	0.6	11.92	0.36	B	4.10	83 % [Stream B-ACD]
Stream A-BCD	0.0	5.63	0.01	A			0.1	5.31	0.03	A		
Stream D-ABC	0.0	0.00	0.00	A			0.0	0.00	0.00	A		
Stream C-ABD	0.0	0.00	0.00	A			0.0	0.00	0.00	A		

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	29/06/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	CURTINS\thorley_m
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75			✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2028 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2028 Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2028 Base (inc. Comm Dev)	AM	ONE HOUR	07:45	09:15	15	✓
D4	2028 Base (inc. Comm Dev)	PM	ONE HOUR	16:45	18:15	15	✓
D5	2028 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2028 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2028 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
4	Great Jackson Street - Melbourne Street - Site Access	Crossroads	Two-way	0.63	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	531	Stream B-ACD

Arms

Arms

Arm	Name	Description	Arm type
A	Great Jackson St (S)		Major
B	Melbourne Street		Minor
C	Great Jackson St (N)		Major
D	Site Access		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - Great Jackson St (S)	8.00			100.0	✓	0.00
C - Great Jackson St (N)	8.00			60.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Melbourne Street	One lane	3.75	20	20
D - Site Access	One lane	3.00	20	20

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
4	A-D	632	-	-	-	-	-	-	0.224	0.319	0.224	-	-	-
4	B-A	531	0.088	0.223	0.223	-	-	-	0.140	0.319	-	0.223	0.223	0.112
4	B-C	684	0.096	0.242	-	-	-	-	-	-	-	-	-	-
4	B-D, nearside lane	531	0.088	0.223	0.223	-	-	-	0.140	0.319	0.140	-	-	-
4	B-D, offside lane	531	0.088	0.223	0.223	-	-	-	0.140	0.319	0.140	-	-	-
4	C-B	609	0.215	0.215	0.308	-	-	-	-	-	-	-	-	-
4	D-A	637	-	-	-	-	-	-	0.225	-	0.089	-	-	-
4	D-B, nearside lane	494	0.131	0.131	0.297	-	-	-	0.208	0.208	0.082	-	-	-
4	D-B, offside lane	494	0.131	0.131	0.297	-	-	-	0.208	0.208	0.082	-	-	-
4	D-C	494	-	0.131	0.297	0.104	0.208	0.208	0.208	0.208	0.082	-	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2028 Base	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson St (S)		ONE HOUR	✓	135	100.000
B - Melbourne Street		ONE HOUR	✓	24	100.000
C - Great Jackson St (N)		ONE HOUR	✓	127	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	0	0	135	0
	B - Melbourne Street	12	0	12	0
	C - Great Jackson St (N)	127	0	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	10	10	10	10
	B - Melbourne Street	10	10	10	10
	C - Great Jackson St (N)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.05	7.56	0.1	A	22	33
A-BCD	0.00	0.00	0.0	A	0	0
A-B					0	0
A-C					124	186
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					117	175

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	18	5	566	0.032	18	0.0	0.0	7.229	A
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	102	25			102				
D-ABC	0	0	491	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	587	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	96	24			96				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	22	5	559	0.039	22	0.0	0.0	7.364	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	121	30			121				
D-ABC	0	0	484	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	583	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	114	29			114				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	550	0.048	26	0.0	0.1	7.556	A
A-BCD	0	0	601	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	149	37			149				
D-ABC	0	0	476	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	577	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	140	35			140				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	550	0.048	26	0.1	0.1	7.556	A
A-BCD	0	0	601	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	149	37			149				
D-ABC	0	0	476	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	577	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	140	35			140				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	22	5	559	0.039	22	0.1	0.0	7.365	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	121	30			121				
D-ABC	0	0	484	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	583	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	114	29			114				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	18	5	566	0.032	18	0.0	0.0	7.235	A
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	102	25			102				
D-ABC	0	0	491	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	587	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	96	24			96				

2028 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
4	Great Jackson Street - Melbourne Street - Site Access	Crossroads	Two-way	0.00	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	900	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2028 Base	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson St (S)		ONE HOUR	✓	324	100.000
B - Melbourne Street		ONE HOUR	✓	3	100.000
C - Great Jackson St (N)		ONE HOUR	✓	52	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	0	0	324	0
	B - Melbourne Street	2	0	1	0
	C - Great Jackson St (N)	52	0	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	10	10	10	10
	B - Melbourne Street	10	10	10	10
	C - Great Jackson St (N)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	A	0	0
A-BCD	0.00	0.00	0.0	A	0	0
A-B					0	0
A-C					297	446
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					48	72

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	0	0	502	0.000	0	0.0	0.0	0.000	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	244	61			244				
D-ABC	0	0	488	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	556	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	39	10			39				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	0	0	490	0.000	0	0.0	0.0	0.000	A
A-BCD	0	0	621	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	291	73			291				
D-ABC	0	0	481	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	546	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	47	12			47				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	0	0	474	0.000	0	0.0	0.0	0.000	A
A-BCD	0	0	619	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	357	89			357				
D-ABC	0	0	471	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	532	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	57	14			57				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	0	0	474	0.000	0	0.0	0.0	0.000	A
A-BCD	0	0	619	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	357	89			357				
D-ABC	0	0	471	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	532	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	57	14			57				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	0	0	490	0.000	0	0.0	0.0	0.000	A
A-BCD	0	0	621	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	291	73			291				
D-ABC	0	0	481	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	546	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	47	12			47				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	0	0	502	0.000	0	0.0	0.0	0.000	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	244	61			244				
D-ABC	0	0	488	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	556	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	39	10			39				

2028 Base (inc. Comm Dev), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
4	Great Jackson Street - Melbourne Street - Site Access	Crossroads	Two-way	2.89	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	166	Stream B-ACD

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2028 Base (inc. Comm Dev)	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson St (S)		ONE HOUR	✓	161	100.000
B - Melbourne Street		ONE HOUR	✓	141	100.000
C - Great Jackson St (N)		ONE HOUR	✓	129	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	0	0	161	0
	B - Melbourne Street	25	0	116	0
	C - Great Jackson St (N)	129	0	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	10	10	10	10
	B - Melbourne Street	10	10	10	10
	C - Great Jackson St (N)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.26	8.85	0.4	A	129	194
A-BCD	0.00	0.00	0.0	A	0	0
A-B					0	0
A-C					148	222
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					118	178

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	106	27	618	0.172	105	0.0	0.2	7.708	A
A-BCD	0	0	610	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	121	30			121				
D-ABC	0	0	483	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	583	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	97	24			97				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	127	32	612	0.207	127	0.2	0.3	8.156	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	145	36			145				
D-ABC	0	0	475	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	578	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	116	29			116				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	155	39	603	0.258	155	0.3	0.4	8.832	A
A-BCD	0	0	600	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	177	44			177				
D-ABC	0	0	464	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	571	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	142	36			142				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	155	39	603	0.258	155	0.4	0.4	8.845	A
A-BCD	0	0	600	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	177	44			177				
D-ABC	0	0	464	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	571	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	142	36			142				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	127	32	612	0.207	127	0.4	0.3	8.176	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	145	36			145				
D-ABC	0	0	475	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	578	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	116	29			116				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	106	27	618	0.172	106	0.3	0.2	7.742	A
A-BCD	0	0	610	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	121	30			121				
D-ABC	0	0	483	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	583	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	97	24			97				

2028 Base (inc. Comm Dev), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
4	Great Jackson Street - Melbourne Street - Site Access	Crossroads	Two-way	1.85	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	172	Stream B-ACD

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2028 Base (inc. Comm Dev)	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson St (S)		ONE HOUR	✓	324	100.000
B - Melbourne Street		ONE HOUR	✓	102	100.000
C - Great Jackson St (N)		ONE HOUR	✓	54	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	0	0	324	0
	B - Melbourne Street	16	0	86	0
	C - Great Jackson St (N)	54	0	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	10	10	10	10
	B - Melbourne Street	10	10	10	10
	C - Great Jackson St (N)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.20	8.71	0.3	A	94	140
A-BCD	0.00	0.00	0.0	A	0	0
A-B					0	0
A-C					297	446
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					50	74

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	77	19	595	0.129	76	0.0	0.2	7.627	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	244	61			244				
D-ABC	0	0	483	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	556	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	41	10			41				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	92	23	583	0.157	92	0.2	0.2	8.054	A
A-BCD	0	0	621	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	291	73			291				
D-ABC	0	0	475	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	546	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	49	12			49				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	112	28	567	0.198	112	0.2	0.3	8.700	A
A-BCD	0	0	619	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	357	89			357				
D-ABC	0	0	464	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	532	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	59	15			59				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	112	28	567	0.198	112	0.3	0.3	8.711	A
A-BCD	0	0	619	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	357	89			357				
D-ABC	0	0	464	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	532	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	59	15			59				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	92	23	583	0.157	92	0.3	0.2	8.069	A
A-BCD	0	0	621	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	291	73			291				
D-ABC	0	0	475	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	546	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	49	12			49				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	77	19	595	0.129	77	0.2	0.2	7.653	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	244	61			244				
D-ABC	0	0	483	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	556	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	41	10			41				

2028 Base + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
4	Great Jackson Street - Melbourne Street - Site Access	Crossroads	Two-way	2.38	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	189	Stream B-ACD

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2028 Base + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson St (S)		ONE HOUR	✓	199	100.000
B - Melbourne Street		ONE HOUR	✓	126	100.000
C - Great Jackson St (N)		ONE HOUR	✓	129	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	0	0	195	4
	B - Melbourne Street	0	0	116	10
	C - Great Jackson St (N)	129	0	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	10	10	10	10
	B - Melbourne Street	10	10	10	10
	C - Great Jackson St (N)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.23	8.32	0.3	A	116	173
A-BCD	0.01	5.63	0.0	A	5	7
A-B					0	0
A-C					178	267
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					118	178

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	95	24	632	0.150	94	0.0	0.2	7.355	A
A-BCD	4	0.95	707	0.005	4	0.0	0.0	5.629	A
A-B	0	0			0				
A-C	146	37			146				
D-ABC	0	0	480	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	576	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	97	24			97				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	113	28	624	0.181	113	0.2	0.2	7.738	A
A-BCD	5	1	722	0.007	5	0.0	0.0	5.518	A
A-B	0	0			0				
A-C	174	44			174				
D-ABC	0	0	471	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	570	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	116	29			116				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	139	35	614	0.226	138	0.2	0.3	8.315	A
A-BCD	6	2	743	0.008	6	0.0	0.0	5.372	A
A-B	0	0			0				
A-C	213	53			213				
D-ABC	0	0	459	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	561	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	142	36			142				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	139	35	614	0.226	139	0.3	0.3	8.324	A
A-BCD	6	2	743	0.008	6	0.0	0.0	5.374	A
A-B	0	0			0				
A-C	213	53			213				
D-ABC	0	0	459	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	561	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	142	36			142				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	113	28	624	0.181	114	0.3	0.2	7.757	A
A-BCD	5	1	722	0.007	5	0.0	0.0	5.520	A
A-B	0	0			0				
A-C	174	44			174				
D-ABC	0	0	471	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	570	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	116	29			116				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	95	24	632	0.150	95	0.2	0.2	7.383	A
A-BCD	4	0.95	707	0.005	4	0.0	0.0	5.629	A
A-B	0	0			0				
A-C	146	37			146				
D-ABC	0	0	480	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	576	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	97	24			97				

2028 Base + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
4	Great Jackson Street - Melbourne Street - Site Access	Crossroads	Two-way	4.10	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	83	Stream B-ACD

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2028 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Great Jackson St (S)		ONE HOUR	✓	300	100.000
B - Melbourne Street		ONE HOUR	✓	169	100.000
C - Great Jackson St (N)		ONE HOUR	✓	54	100.000
D - Site Access		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	0	0	284	16
	B - Melbourne Street	37	0	86	46
	C - Great Jackson St (N)	54	0	0	0
	D - Site Access	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Great Jackson St (S)	B - Melbourne Street	C - Great Jackson St (N)	D - Site Access
From	A - Great Jackson St (S)	10	10	10	10
	B - Melbourne Street	10	10	10	10
	C - Great Jackson St (N)	10	10	10	10
	D - Site Access	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.36	11.92	0.6	B	155	233
A-BCD	0.03	5.31	0.1	A	22	33
A-B					0	0
A-C					253	380
D-ABC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					50	74

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	127	32	544	0.234	126	0.0	0.3	9.475	A
A-BCD	17	4	763	0.022	17	0.0	0.0	5.308	A
A-B	0	0			0				
A-C	209	52			209				
D-ABC	0	0	481	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	559	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	41	10			41				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	152	38	533	0.285	152	0.3	0.4	10.367	B
A-BCD	21	5	788	0.027	21	0.0	0.0	5.162	A
A-B	0	0			0				
A-C	248	62			248				
D-ABC	0	0	472	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	549	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	49	12			49				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	186	47	518	0.359	185	0.4	0.6	11.877	B
A-BCD	28	7	824	0.035	28	0.0	0.1	4.978	A
A-B	0	0			0				
A-C	302	75			302				
D-ABC	0	0	460	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	536	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	59	15			59				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	186	47	518	0.359	186	0.6	0.6	11.924	B
A-BCD	28	7	824	0.035	28	0.1	0.1	4.980	A
A-B	0	0			0				
A-C	302	75			302				
D-ABC	0	0	460	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	536	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	59	15			59				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	152	38	533	0.285	153	0.6	0.4	10.428	B
A-BCD	21	5	788	0.027	21	0.1	0.0	5.165	A
A-B	0	0			0				
A-C	248	62			248				
D-ABC	0	0	472	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	549	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	49	12			49				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	127	32	544	0.234	128	0.4	0.3	9.525	A
A-BCD	17	4	763	0.022	17	0.0	0.0	5.311	A
A-B	0	0			0				
A-C	209	52			209				
D-ABC	0	0	480	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	559	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	41	10			41				

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Appendix 13.2 – Framework Travel Plan









Great Jackson Street, Plot F

Framework Travel Plan

Curtins Ref: 078616-CUR-00-XX-RP-TP-002

Revision: V03

Issue Date: 14 October 2021

Client Name: Renaker Build Limited

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Control Sheet

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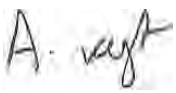
Authorised	Signature	Date
Alex Vogt BSc (Hons) MSc MCIHT TPP Director of Transport Planning		14 October 2021

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Drawing 078616-CUR-00-XX-DR-TP-06003 – Accessibility – Walking Catchment
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Drawing 078616-CUR-00-XX-DR-TP-06005 – Accessibility – Public Transport Catchment

Appendices

Appendix A – Site Layout Plan

1.0 Introduction

1.1 Background

1.1.1 Curtins has been appointed by Renaker Build Limited (the Applicant) to provide traffic and transport advice in relation to the redevelopment of a Site known as Plot F at Great Jackson Street, Manchester.

1.1.2 The proposals include the demolition of the existing building on-site and the construction of a high quality residential scheme across two 51 storey towers (identified as F1 and F2), alongside both publicly accessible and private public realm, internal residential amenity uses, private car parking within two and three tiered multi-storey basements and extensive cycle parking facilities.

1.1.3 Plot F forms part of the wider Great Jackson Street Strategic Regeneration Framework (SRF) which encompasses a Site area of 7.78 hectares, as shown in **Figure 1.1** below:

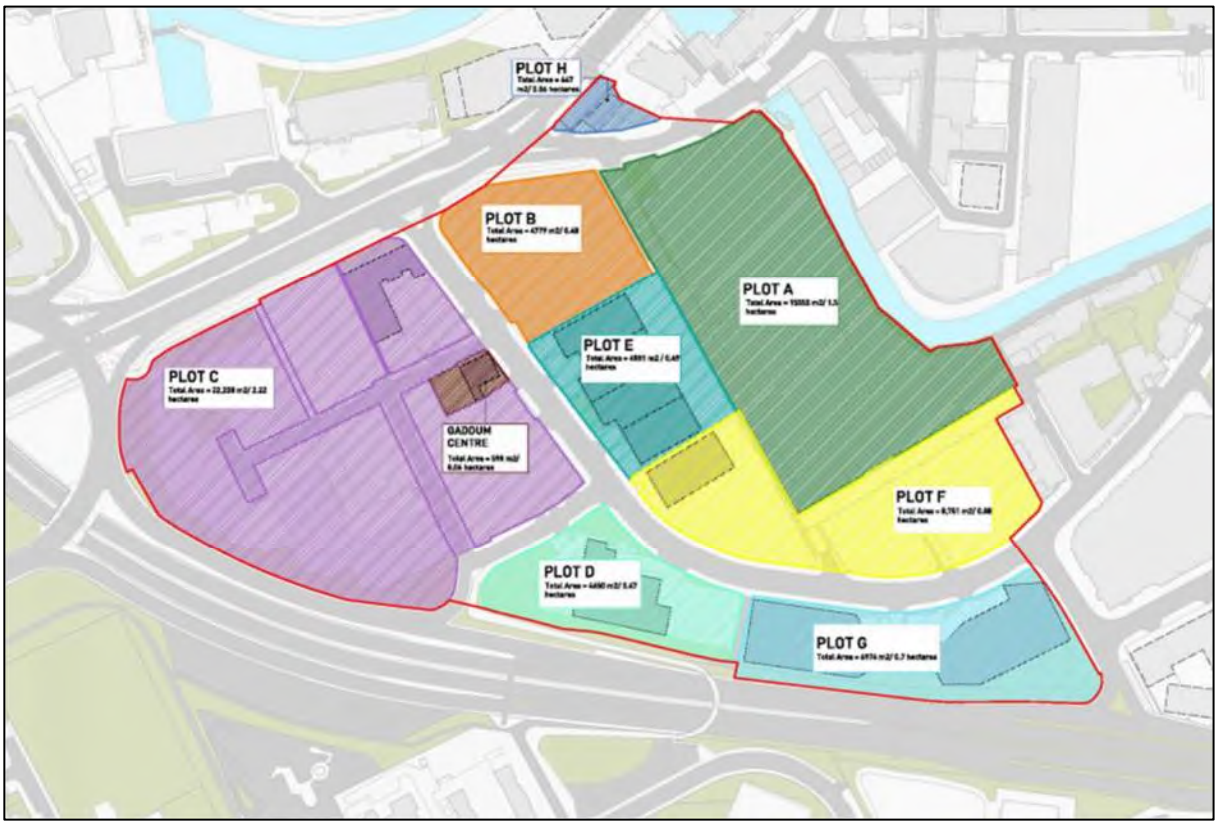


Figure 1.1 – Great Jackson Street SRF – Development Plots (Source: Great Jackson Street Development Framework. 2018 Update)

1.1.4 Manchester City Council originally endorsed a Development Framework for Great Jackson Street in 2007, based on a mix of residential and commercial uses. This was subsequently updated in 2015 and finally in 2018 in order to establish a set of development principles appropriate to the creation of a new, more focused residential-led neighbourhood and community in this part of the city centre. This

neighbourhood has an essential role to play in supporting Manchester's growth, productivity and quality of life.

1.1.5 The proposed Site layout plan for Plot F is included in **Appendix A**.

1.2 What is a Travel Plan?

1.2.1 A Travel Plan is defined by the Department for Transport and by the Department for Communities and Local Government as:

> *"A long-term management strategy for an organisation or site that seeks to deliver sustainable transport objectives and is regularly reviewed."*

Source: *National Planning Policy Framework*, Department for Communities and Local Government, 2019.

1.2.2 In essence, a Travel Plan is intended to encourage people to choose alternative transport modes over single occupancy car use and, where possible, reduce the need to travel at all. Such a plan should include a range of measures designed to achieve this goal.

1.3 Document Purpose

1.3.1 This Framework Travel Plan (FTP) should be read alongside the accompanying Transport Assessment (TA) (Document Reference: 078616-CUR-00-XX-RP-TP-001), which has been prepared to consider the traffic and transportation impacts of the Proposed Development.

1.3.2 An FTP is the first stage of the Travel Plan process and is often prepared during the planning stage prior to the construction of the Proposed Development. It includes a list of potential measures that could be implemented to affect modal choice, and a management strategy for producing a full Travel Plan in the future.

1.3.3 Transport for Greater Manchester endorses the need for Travel Plans in order to reduce the impact of transport on the local environment, to improve accessibility and to encourage active travel which improves peoples' health. According to Transport for Greater Manchester's guidance document '*Transport for Sustainable Communities: a Guide for* Developers', a Travel Plan should achieve:

- *"A reduction in car use (particularly for single occupancy trips) and increase travel by sustainable modes, namely active travel and public transport;*
- *A reduction in the impact of the generated traffic, both in the immediate neighbourhood and on the wider highway network;*
- *Safe access for pedestrians and cyclists; and*
- *A coordinated approach to developing and implementing realistic travel options."*

Source: *Transport for Sustainable Communities: a Guide for Developers, TfGM 2013*

1.3.4 This document has been written with reference to the above statement and the following core guidance documents:

- National Planning Policy Framework, Department for Communities and Local Government, 2019;
- National Planning Practice Guidance, Department for Communities and Local Government, 2014;
- Manchester Core Strategy (2012-2017);
- Greater Manchester Transport Strategy 2040, Transport for Greater Manchester, 2021;
- Transport for Sustainable Communities: a Guide for Developers, Transport for Greater Manchester, 2013; and
- Good Practice Guidelines: Delivering Travel Plans through the Planning Process, Department for Transport, 2009.

1.4 Document Structure

1.4.1 Following this introductory section, **Section 2** of the report provides background information on the benefits that can be derived from a successful Travel Plan. It also sets out keys aims and objectives for the Travel Plan process.

1.4.2 **Section 3** describes the existing situation and surrounding area, including the local highway layout; and **Section 4** provides a summary of the Proposed Development.

1.4.3 **Section 5** assesses the accessibility of the Site by sustainable modes of transport, including walking, cycling and public transport.

1.4.4 **Section 6** outlines various initiatives that could be implemented at the Site to encourage maximum uptake in sustainable modes of travel, whilst **Section 7** outlines the strategy for Travel Plan targets.

1.4.5 **Section 8** provides details on the monitoring and review process, responsibility and management of the document, and the appointment of a Travel Plan Coordinator (TPC) as the Travel Plan progresses.

1.4.6 **Section 9** concludes the report by providing an Action Plan that summarises the document and next steps.

2.0 Travel Plan Benefits

2.1 Introduction

2.1.1 The benefits from a Travel Plan can be loosely categorised under the following main headings:

- Environmental Benefits;
- Health Benefits;
- Financial Benefits; and
- Social Benefits.

2.1.2 This section explores just some of the benefits that can be realised during a successful Travel Planning process.

2.2 Environmental Benefits

2.2.1 Climate change is a global issue that affects all nations. Data on greenhouse gas emissions provided by the Department for Transport (DfT) show that carbon emissions from domestic transport account for one third of the UK's net domestic emissions. Over 90% of domestic transport emissions arise from road transport. How people travel will therefore play a key role in the UK's carbon reduction agenda as follows.

2.2.2 The British Government has pledged to play its part in reducing emissions which are harmful to the earth by setting carbon reduction targets:

> *"A net-zero greenhouse gas emissions (GHG) target for 2050 will deliver on the commitment that the UK made by signing the Paris Agreement. It is achievable with known technologies, alongside improvements in people's lives, and within the expected economic cost that Parliament accepted when it legislated the existing 2050 target for an 80% reduction from 1990."*

Source: *Climate Change Act 2008,* Chapter 27, Part 1, 2008.

2.2.3 A coordinated Clean Air Plan is being developed by all 10 local authorities in Greater Manchester to tackle air pollution, and in particular, nitrogen dioxide (NO_2) exceedances. Several measures have been proposed to help reduce roadside NO_2 levels as effectively as possible, while also protecting local people, businesses and the economy. These include:

- **A Greater Manchester Clean Air Zone** – a daily penalty applied to non-compliant vehicles (buses, coaches, heavy goods vehicles, taxis, private hire vehicles, vans and minibuses) driving into, inside and through Greater Manchester via local roads (not motorways);

- **A multi-million-pound funding package** – government-funded schemes for people and businesses who own vehicles that would be subject to the Clean Air Zone penalty to upgrade to a cleaner vehicle; and
- Trebling the number of **electric vehicle public charging points**.

2.2.4 In January 2021, TfGM published a 2040 Vision for Transport to develop flexible and customer-focused travel choices, supported by smart information, ticketing and payment systems, across a truly integrated Greater Manchester transport network. This Transport Strategy outlined that road transport is responsible for 80% of NO2 pollution at the roadside, where it is most damaging to health, and that the cost of congestion in Greater Manchester has been estimated by TfGM to be £1.3 billion per year.

2.2.5 The Transport Strategy states an ambition for a well-connected, zero carbon Regional Centre at the heart of the North. The Strategy is therefore aiming for 90% of morning peak trips into the city centre to be made on foot, by bicycle or public transport before 2040. The travel planning process can support this aim by encouraging active and sustainable travel behaviour.

2.2.6 In July 2019, a motion asking Manchester City Council to formally declare a 'climate emergency' was agreed, making sure that all key decisions are taken to create a thriving, healthy, zero carbon city in line with the Draft Manchester Zero Carbon Framework (2020 – 2038). The framework details Manchester City Council's commitments to limiting the impacts of climate change by adopting and meeting objectives such as:

1. *"Carbon Reduction and Contributing to the Paris Agreement*
2. *Improving (our) residents' health, wellbeing and quality of life*
3. *Creating good jobs, supporting successful businesses and attracting investment."*

Source: Draft Manchester Zero Carbon Framework, Manchester City Council, 2019.

2.2.7 Encouraging people to make smarter choices in the way they travel can drastically reduce the impact that a particular development or organisation makes on the environment.

2.3 Health Benefits

2.3.1 A reduction in polluting vehicles on the roads surrounding the Site will mean better air quality throughout the area. There are also well documented health benefits associated with active travel, and activity levels across the UK could still be improved:

> *"66% of men and 58% of women aged 19 and over met the aerobic activity guidelines of at least 150 minutes of moderate activity or 75 minutes of vigorous activity per week or an equivalent combination of both, in bouts of 10 minutes or more.*
>
> *26% of men and 27% of women were obese. The proportion of adults who were obese has been similar since 2010."*

Source: *Health Survey for England*, DoH, 2016.

2.3.2 Regular moderate physical activity (including walking and cycling), can help prevent and reduce the risk of cardiovascular disease, cancer, obesity, diabetes, stroke, mental health problems, high blood pressure, and musculoskeletal problems.

2.4 Financial Benefits

2.4.1 Although secondary to environmental and health benefits, there are also financial benefits to be gained from increasing active travel rates:

> *"The estimated direct cost of physical inactivity to the NHS across the UK is £1.06 billion. This is based upon five conditions specifically linked to inactivity, namely coronary heart disease, stroke, diabetes, colorectal cancer and breast cancer.*
> *In England, the costs of lost productivity have been estimated at £5.5 billion per year from sickness absence and £1 billion per year from the premature death of people of working age."*

Source: *Start active, stay active: report on physical inactivity in the UK*, DoH, 2011.

2.4.2 Individuals can also benefit financially from travelling to and from a site with a Travel Plan in place due to the improved range of transport options available, some of which may be more cost-effective than car travel. In some circumstances, Travel Plan measures can remove an individual's need for a car (or their household's need for a second car), removing the capital and on-going cost of car ownership.

2.4.3 An effective Travel Plan can help encourage residents, staff, and visitors to lessen their environmental impact by reducing emissions from transport, lead a healthier and more active lifestyle, and reduce financial wastage.

2.5 Social Benefits

2.5.1 The use of active and sustainable modes of transport, including car sharing, can offer social benefits and improved well-being through the interaction with other people:

> *"Engagement with individuals and communities through the travel planning process can support higher levels of walking and cycling, and this in turn can encourage greater social inclusion and community cohesion as well as healthier communities."*

Source: *Good Practice Guidelines: Delivering Travel Plans through the Planning Process, DfT, 2009*.

2.6 Mutual Benefits

2.6.1 As demonstrated, there are multiple reasons as to why Travel Plans are important to modern society. The initiatives in this FTP will have a positive effect on the future residents of the Proposed Development. They must be communicated correctly:

> *"It is important that the outcomes sought from the travel plan can be seen as a benefit to all parties, e.g. the developer, occupiers and site users, the community and the local authority. Such benefits can help in gaining widespread commitment."*

Source: *Good Practice Guidelines: Delivering Travel Plans through the Planning Process*, Department for Transport, 2009.

2.7 Travel Plan Aims & Objectives

2.7.1 Considering the above benefits and the end users, this FTP aims to minimise the number of car trips generated by the Proposed Development and encourage residents to use sustainable modes of transport.

2.7.2 The aims of this FTP will be supported with the following objectives:

- **Objective 1** – To increase the level of walking to and from the Site;
- **Objective 2 –** To increase the level of cycling to and from the Site;
- **Objective 3 –** To increase the level of public transport use to and from the Site; and
- **Objective 4 –** To reduce single occupancy car travel to and from the Site.

3.0 Existing Situation

3.1 Site Location

3.1.1 The Site is located on the south-west edge of Manchester City Centre, situated in the Deansgate-Castlefield area. The Site is also within walking distance of the Deansgate rail station, the Deansgate-Castlefield Metrolink station, and is well connected to central Manchester, Spinningfields, and Hulme.

3.1.2 The Site is bounded to the north by Plot A of the SRF (Deansgate Square development), to the east by existing residential buildings, to the west by Plot E of the SRF (currently vacant buildings), and to the south by Great Jackson Street. The Site is also in the vicinity of many local amenities and leisure / entertainment facilities such as Deansgate Locks and First Street. The following **Figure 3.1** illustrates the Site in relation to the local highway network:



Figure 3.1 – Indicative Site Location in Relation to the Local Highway Network. (Source: ©OpenStreetMap)

3.2 Existing Use and Access

3.2.1 The Site comprises areas of hardstanding formerly used as a Peugeot car compound. It is currently occupied by the site cabins and surface car parking associated with the construction of Deansgate Square, in addition to an existing industrial building to the west of the Site. There is no recent planning history of relevance to the Site.

3.2.2 The car park is located to the west of the Site (Plot F1). This car park is accessed via Great Jackson Street and provides c. 68 parking spaces.

3.2.3 The construction compound is located to the east of the Site (Plot F2) and is currently in use accommodating materials in storage, contractor's welfare and some vehicular parking. Access is also provided from Great Jackson Street.

3.2.4 Various site visits have been undertaken in May and June 2021. During these sites visits Curtins had the opportunity to observe and analyse the current usage and levels of traffic associated with the existing uses, as well as on-street parking levels along Great Jackson Street. The site visits also provided the opportunity to review the surrounding highway network and provision for pedestrians and cyclists.

3.3 Surrounding Highway Network

Great Jackson Street

3.3.1 Forming the northern boundary of the Site, Great Jackson Street connects the A56 Chester Road to the A5103 Medlock Street in a semi-circular route from west to east, continuing on as City Road East past the priority junction with Garwood Street at the north-east of the Site. The roads form the minor arm of a priority junction at both ends and have a combined length of circa 580m. The priority junction at the western end of Great Jackson Street has a left-in, left-out arrangement, whilst the priority junction at the eastern end of the road allows for all traffic movements.

3.3.2 Great Jackson Street comprises a single carriageway with a typical width of 10m. There are also footways of an average 2.5m with on both sides of the road, along with street lighting at regular intervals on the southern side of the road. The road is also subject to a speed limit of 20mph

3.3.3 Great Jackson Street is in Zone 4 of Manchester City Centre's Controlled Parking Zone (CPZ), where Pay and Display (P&D) parking is provided for up to 10 hours between 08:00 and 20:00 on Mondays to Sundays, with no return within 1 hour and no charge for parking on a Bank Holiday. There is a total of c.73 bays available along the road at present.

3.3.4 Where the road meets other minor junctions leading into other car parks or minor roads, there are Traffic Regulation Orders (TROs) present in the form of double yellow line parking restrictions.

Garwood Street

3.3.5 To the east and south of the Site, Garwood Street measures c.85m and serves as a link between Great Jackson Street / City Road East and the A57 Mancunian Way. At its northern end, it forms a priority

junction with Great Jackson Street and City Road East, whereas at its southern end it forms a priority junction with the Ring Road leading into Manchester City Centre and the universities.

3.3.6 The road is clearly signed to prevent westbound entry onto the Ring Road. In the northbound direction from the Mancunian Way, there are also many signs indicating the change of speed limit from 50mph on the Mancunian Way to 30mph along the slip road, and then to 20mph along Garwood Street.

3.3.7 Garwood Street comprises a single carriageway of approximately 10m in width and wide footways of up to 5m on both sides of the road. There are some street light columns. The road is also within Zone 4 of the CPZ and has 3 P&D bays adjacent to the eastern boundary of the Site. There are also TROs in the form of double yellow line parking restrictions at the major junctions.

Melbourne Street

3.3.8 To the west and south of the Site, Melbourne Street measures circa 70m and serves as a link between Great Jackson Street and the A57 Mancunian Way. At its northern end, it forms a priority junction with Great Jackson Street, whereas at its southern end it commences at the junction between the end of the Ring Road slip road and Crown Street.

3.3.9 Access from the A57 Mancunian Way is only possible from the slip road coming from Deansgate Interchange, which has been recently improved as part of the Manchester Salford Inner Relief Route (MSIRR) improvements, and the only movement possible is outbound from the Mancunian Way. Speeds reduce from 50mph on the Mancunian Way to 30mph along the slip road onto Melbourne Street, and then to 20mph along Melbourne Street.

3.3.10 Melbourne Street comprises a single carriageway of approximately 7m in width and footways of c.2.5m on both sides of the road. There are some street light columns along both sides. The road is also within Zone 4 of the CPZ and has a number of P&D bays along the road, with TROs in the form of double yellow line parking restrictions along the rest of the carriageway and junctions.

3.3.11 Melbourne Street currently provides pedestrian access to Hulme and other areas to the south of the city centre via a pedestrian and cycle bridge over the Mancunian Way, located at the end of Melbourne Street. This bridge can be accessed within a 250m walk from the centre off the Site.

A57 (M) Mancunian Way

3.3.12 Located to the south of the Site, the A57 (M) Mancunian Way forms part of the inner ring road around Manchester City Centre by connecting Deansgate in the west to Manchester Piccadilly in the east. The road commences at a signalised junction with the A57 Regent Road, A6042 Trinity Way and Water Street, then extends to the east for a length of circa 2.75km before it terminates and continues on as the A635 Ring Road.

3.3.13 In the vicinity of the Site, the A57 (M) Mancunian Way comprises a dual carriageway with a total width of 28m and up to three lanes in each direction. The road is subject to a speed limit of 50mph and is lit by regularly spaced lighting columns.

A56 Chester Road

3.3.14 The A56 Chester Road is one of the main radial routes into Manchester City Centre and provides the main route for outlaying towns such as Altrincham and Sale to gain access to the city. In the vicinity of the Site, Chester Road has an overall carriageway width of around 19m.

3.3.15 Chester Road serves as a bus route into and out of Manchester and also features an on-road cycle lane along its southern side and an unsegregated footway / cycleway on its northern side. Chester Road is subject to a 30mph speed limit and is lit by regularly spaced lighting columns.

3.3.16 There are bus stops on both sides Chester Road, where the closest bus stop to the Site is within a 500m walking distance from the proposed northern Site access. More details regarding bus services are provided in **Section 4** of this report.

Owen Street

3.3.17 Owen Street is located to the north of the Proposed Development. It currently links Deansgate with Great Jackson Street, extending for c.210m.

3.3.18 Owen Street has undergone a major refurbishment as part of the SRF proposals. At the time of writing, the carriageway and eastern footway have been fully completed, with only the western footway to be fully constructed.

3.3.19 The road is privately owned and has barrier access at both ends. The carriageway is c.5.5m wide with vehicular speeds limited by the barrier system acting as a traffic calming measure. The current footway to the east ranges in width, with a minimum of c.2.5m. Street lighting is currently only provided along the eastern footway, as the western footway will be built as part of other plots of the SRF. On-street parking is restricted by double red line markings along the entirety of the road.

River Place

3.3.20 River Place is located to the east of the development and provides access to the Lumiere Building, The Boatmans Building and The Rhine Apartments. The road is a no through route. River Place currently provides an exit route for servicing vehicles coming off Deansgate Square via a barrier system along Pond Street.

3.3.21 The carriageway is two-way and c.5m wide. Footways of c.2m in width are provided along both sides of the road. There are TROs in the form of single yellow line parking restrictions along both sides of the carriageway with double yellow line parking restrictions at junctions.

4.0 Development Proposals

4.1 Phasing

4.1.1 The Proposed Development will be delivered in two phases to deliver the two proposed buildings (F1 and F2).

- Phase A – Construction of Building F2, plus F2 basement car parking, landscaping and access; and
- Phase B – Demolition of the existing building on-Site and the construction of Building F1, plus F1 basement car parking, landscaping and access.

4.1.2 **Figure 4.1** below demonstrates the phasing proposals:

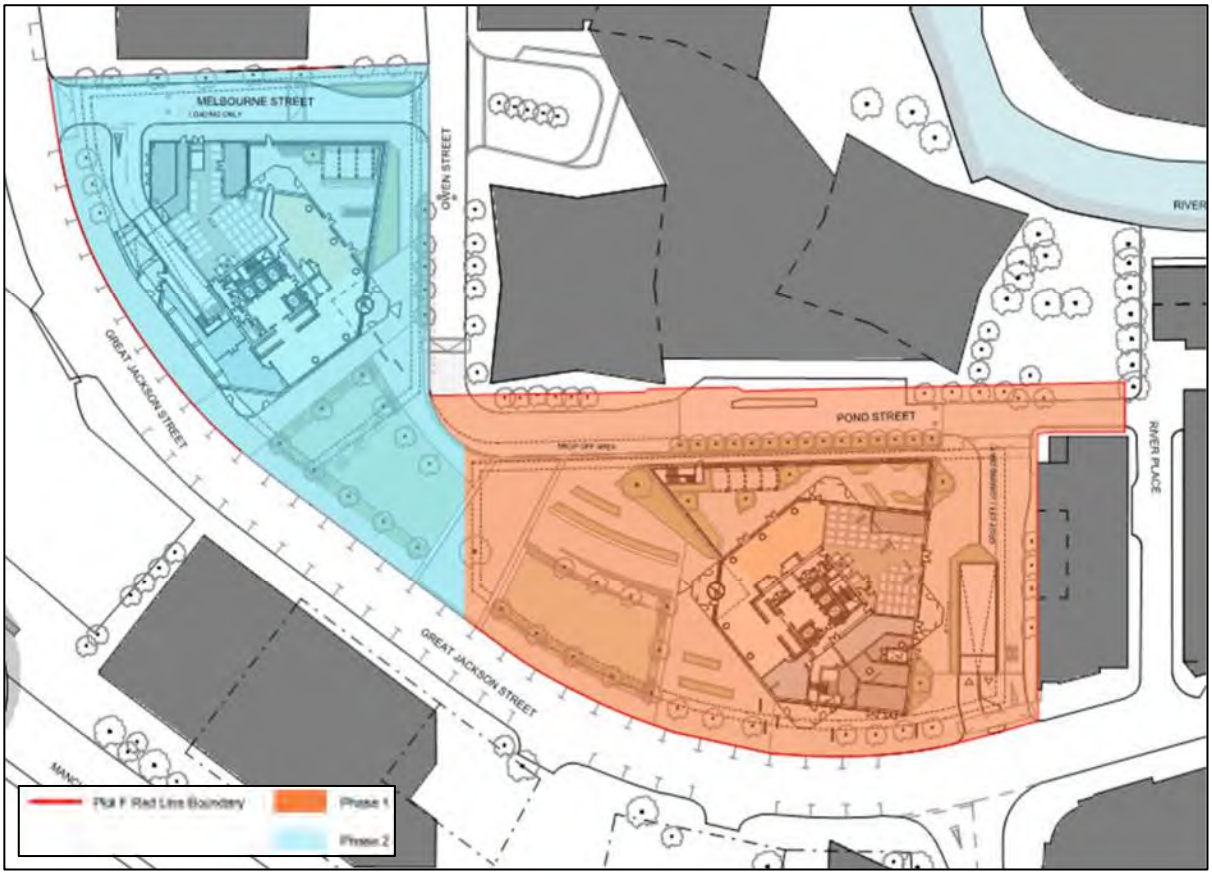


Figure 4.1 –Proposed Development Phasing (Source: Simpson Haugh Architects)

4.2 Development Proposals

4.2.1 The proposals include demolition of existing structures and the construction of a residential-led scheme comprising two buildings of 51 storeys each, together accommodating 988 residential units (Use Class

C3) equally distributed as 494 dwellings at Building F1 and 494 dwellings at Building F2; complete with basement car parking, cycle provision, landscaping, access and other associated works.

4.2.2 The scheme will comprise 158 one-bedroom apartments, 312 two-bedroom apartments, and 24 three-bedroom apartments per tower.

4.2.3 There will also be 296 car parking spaces (circa 30% provision) divided as:

- Building F1 – 148 within three basement levels; and
- Building F2 – 148 within two basement levels.

4.2.4 There will be up to 20% demand-led Electric Vehicle Charge (EVC) provision (7kw each). Spaces will be future proofed with containment channels that enable cable connections to be installed as and when required.

4.2.5 There will also be 29 accessible spaces provided on site, which equates to approximately 10% provision.

4.2.6 The Proposed Development will offer 100% cycle parking provision. The spaces will be covered and secure, distributed across the levels of basement car park. These spaces will be complemented by visitor cycle parking, which will be provided at ground floor level, within the landscaped proposals, and will consist of one cycle shelter per building.

4.2.7 The proposed Site layout plan is included in **Appendix A**.

4.3 Pedestrian & Cycle Access Strategy

4.3.1 The Site layout has been designed to promote walking and cycling. Cyclists would be able to access the Site in a similar manner to vehicles, as the cycle stores are located within the car parks. Moreover, as a result of the Proposed Development, the surrounding highway infrastructure would also benefit from a more pleasant environment with landscaping and the provision of trees, improved footways and the provision of public realm within the Site. This would ensure a safe physical environment for pedestrian and cyclists to promote active travel for commuting, leisure and recreation.

4.3.2 It is envisaged that pedestrian and cycle friendly routes, which respond to the principal north-east and south-west alignment of streets, would be provided to establish safe and attractive alternative routes to Great Jackson Street and A56 Chester Road, therefore enhancing connectivity / integrating between the city centre and communities to the south. Furthermore, these routes within the Site will enhance the connectivity with Hulme via the existing pedestrian and cycle bridge over the A57 Mancunian Way.

4.3.3 As stated in **Section 3.3**, the surrounding roads have footways available for pedestrian use, and the carriageways are well lit by street lighting. At the major junctions near the Site, there are signalised crossing points, pedestrian refuge islands, dropped kerbs and tactile paving to aid pedestrians.

5.0 Accessibility by Sustainable Modes of Travel

5.1 Introduction

5.1.1 A key element of national and local policy is to ensure that new developments are located in areas where alternative modes of travel are available. It is important to ensure that developments are not isolated, but are located close to complementary land uses. This supports the aims of integrating planning and transport, providing more sustainable transport choices, and reducing overall travel and car use.

5.1.2 The accessibility of the Proposed Development is considered in this context for the following modes of travel:

- Pedestrian Accessibility;
- Cycle Accessibility; and
- Public Transport Accessibility.

5.2 TRACC Analysis

5.2.1 Accessibility has been assessed through the use of TRACC Software. TRACC is the leading multi-modal transport accessibility tool which was developed in conjunction with the Department for Transport (DfT), local authorities and transport planners.

5.2.2 It is designed to calculate travel time using a multitude of public transport and road travel modes to give accurate journey times from many origins to many destinations in one calculation. The software covers a wide range of transport modes including walking, cycling, driving and public transport.

5.2.3 TRACC analysis has been undertaken to establish the pedestrian, public transport and cycle accessibility of the Site and demonstrate the connectivity of the Site to adjacent areas using these modes of transport.

5.3 Pedestrian Accessibility

5.3.1 Research has indicated that acceptable walking distances depend on a number of factors, including the quality of the development, the type of amenity offered, the surrounding area, and other local facilities. The Chartered Institution for Highways and Transportation (CIHT) document entitled 'Providing for Journeys on Foot' suggests walking distances which are relevant to this planning application. These are reproduced in **Table 5.1**.

	Town Centres (m)	Commuting/School/ Sightseeing (m)	Elsewhere/Local Services (m)
Desirable	200	500	400
Acceptable	400	1,000	800
Preferred Maximum	800	2,000	1,200

Table 5.1 – CIHT Suggested Acceptable Walking Distances

5.3.2 To assist in summarising the accessibility of the Site by foot, an indicative pedestrian catchment plan has been produced. **Plan 078616-CUR-00-XX-RP-TP-06003** shows distances of 500m, 1,000m and 2,000m which are termed 'Desirable', 'Acceptable' and the 'Preferred Maximum' by the CIHT for commuting trips.

5.3.3 The pedestrian catchment plan confirms that the Site is well located in relation to local services and facilities within Manchester. Most notably, several bus stops along the A56 Chester Road and A5103 Medlock Street are located within the 500m walking catchment. Future residents can also access the Procters Young Peoples Centre in Hulme, several office buildings east of the Site, the Deansgate Locks Premier Inn hotel, the Manchester School of Acting, several small coffee shops, and the Castlefield Gallery.

5.3.4 The First Street development comprising a Sainsbury's, INNSIDE hotel, HOME theatre, public houses, several bars and restaurants is also within the 500m walking catchment. Once the Crown Street Phase 2 development is completed, a primary school will be available to residents within 500m of the Site.

5.3.5 Within 1,000m of the Site, more bus stops and tram stops are accessible for residents of the Site. The Deansgate Railway Station and the Deansgate-Castlefield Metrolink station can be accessed within an 8-minute walk (or 600m walk distance) north of the Site. The entirety of the leisure / entertainment in the Deansgate and Spinningfields areas is also accessible, with Deansgate Locks fronting Whitworth Street West, the Bridgewater Hall and Manchester Central Convention Complex, Manchester Great Northern (comprising the ODEON cinema, bowling alley, and food/drink establishments), Science and Industry Museum and Beetham Tower.

5.3.6 To the east of the Site, the Oxford Road rail station is accessible within 1,000m, along with the Palace Theatre and more entertainment facilities. The Oxford Road Corridor is accessible too, and it is known as the busiest bus corridor in Europe, connecting Manchester City Centre to the surrounding neighbourhoods including Ardwick, Hulme, Longsight, Moss Side and Rusholme. Along the corridor are many pharmacies, a Tesco and Sainsbury's store, food and drink outlets, and health clubs.

5.3.7 To the south of the Site, the Manchester Metropolitan University campus lies within the 1,000m catchment, which includes student accommodation along with places of worship. There are also several primary schools, Hulme Park and St Georges Park.

5.3.8 At 2,000m beyond the Site, the whole of Manchester City Centre including the Central Business and Retail Districts, Manchester Piccadilly, Piccadilly Gardens, Market Street, Shudehill, the Northern Quarter, Chinatown, Salford Central, the outskirts of Ordsall and Old Trafford, Hulme, Moss Side, Brunswick, Manchester Science Park and the University of Manchester campus are all within reach. the Site is strategically situated in Manchester City Centre such that the surrounding facilities can benefit future residents of all ages.

5.3.9 As part of the Manchester and Salford Inner Relief Route (MSIRR) works programme, the Mancunian Way / A56 Chester Road roundabout (Deansgate Interchange) has been recently improved to offer capacity improvements and also improved pedestrian and cycle linkages, which will therefore be of benefit to residents of the development when routing to / from Manchester City Centre.

5.3.10 The topography of the local area is generally flat and conducive to pedestrian trips, and the area benefits from natural surveillance from the commercial and residential properties that abut all the main walk routes.

5.3.11 The Site is therefore considered to be highly accessible by foot with various employment, education, health, retail and leisure facilities within walking distance of the Site. The Site is also conveniently located to various public transport routes and interchanges.

5.4 Cycle Accessibility

5.4.1 The Greater Manchester Cycling Strategy has been introduced to set out a regional approach to prioritise future investment in cycling and associated infrastructure. Greater Manchester's vision is of a city "fit for the future" – a healthy, safe, sustainable city where people want to live, work and visit and where a well-established cycling culture is integral.

5.4.2 In order to assist in assessing the accessibility of this Site by cycle, **Plan 078616-CUR-00-XX-RP-TP-06004** presents an 8km cycle catchment for the Site. The 8km cycling distance refers to a recommendation by Cycling England in the document 'Integrating Cycling into Development Proposals' (2009).

5.4.3 The 8km catchment extends as far as Blackley in the north, Fairfield to the east, Didsbury in the south and Trafford Park to the west.

5.4.4 There are multiple local on and off-road routes that surround the Site, for example; along Great Jackson Street and City Road East, the A56 Chester Road, Whitworth Street West and Medlock Street and adjacent to the Bridgewater Canal, as shown on **Figure 5.1** below:

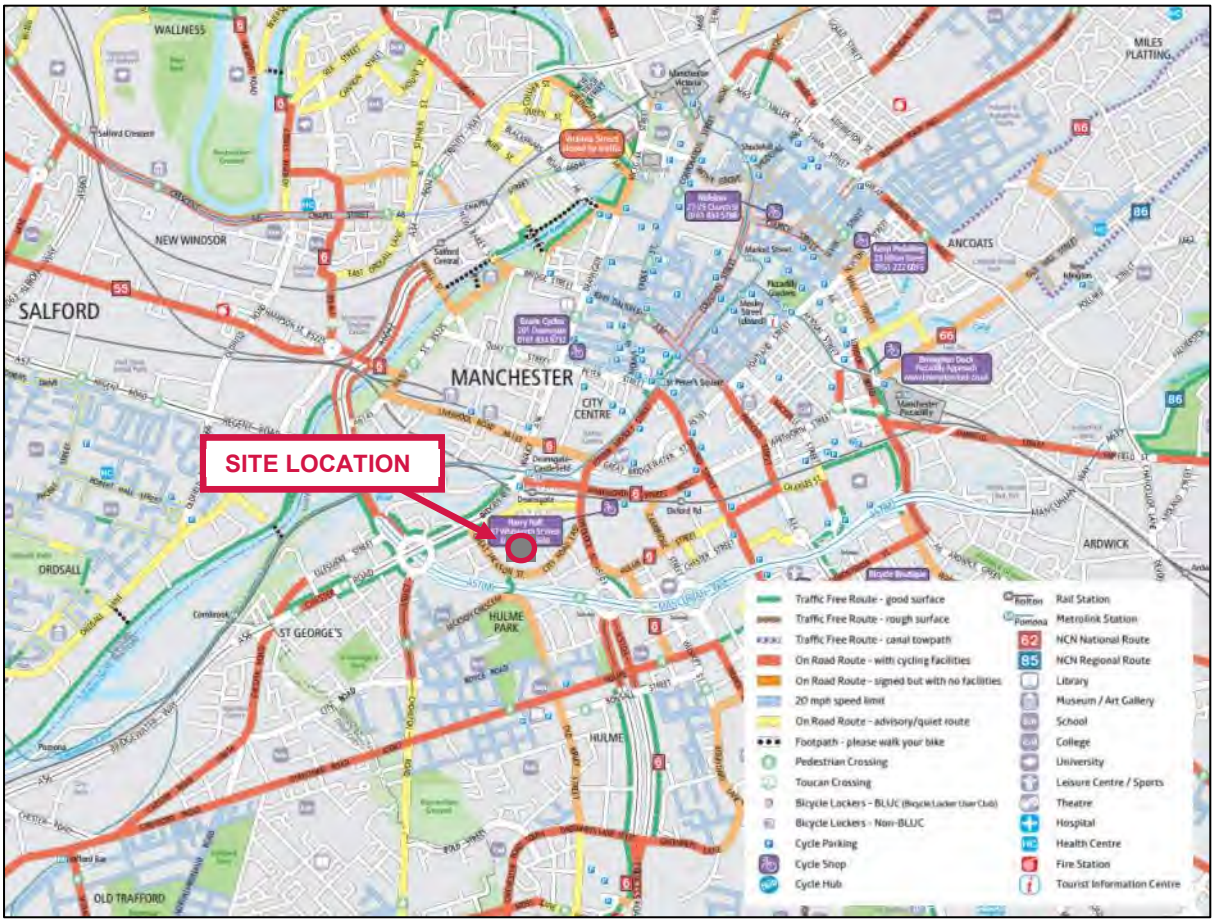


Figure 5.1 – Local Cycle Routes (Source TfGM)

5.4.5 Some of the most attractive cycle routes in the area lie alongside the waterway network. There are cycle routes alongside both the Bridgewater Canal and the River Irwell that are easily accessible from the Site. Local routes in the vicinity of the Site have been developed to include segregated cycle lanes as part of the Oxford Road Bus Priority Package. The segregated cycle lanes are part of the city's new high- quality cycle infrastructure to improve cyclist safety along the Oxford Road Corridor.

5.4.6 National Cycle Route 6 is located some 650m to the north of the Site on Liverpool Road. Route 6 passes through Watford, Luton, Milton Keynes, Northampton, Market Harborough, Leicester, Derby, Nottingham, Worksop, Sheffield, Manchester, Blackburn, Preston, Lancaster, Kendal and Windermere, and will connect London and Threlkeld in Cumbria when complete. More locally, the route connects the Site to areas in the north west of Greater Manchester such as Radcliffe, and to the south west including areas such as Chorlton-cum-Hardy.

5.4.7 The local cycle network shown above is also a part of Greater Manchester's cycling and walking infrastructure proposal, named the "Bee Network". The Bee Network comprises signed routes that mark the most direct and pleasant way to navigate an area on foot or by bike.

5.4.8 The site is surrounded by Beeways and confirmed infrastructure improvements, as illustrated in **Figure 4.3**, allowing future residents and visitors that cycle to benefit from better safety and quality of commute.



Figure 5.2 – Proposed Bee Network (Source: MappingGM)

5.4.9 As mentioned earlier, there will be 100% provision of secure, covered cycle parking spaces provided at the Proposed Development, thereby encouraging this mode of transport.

5.4.10 The Site is therefore considered to be highly accessible by bicycle and would provide a realistic alternative to travel by car.

5.5 Public Transport Accessibility

5.5.1 Developed by Transport for Greater Manchester, Greater Manchester Accessibility Levels (GMAL) are a measure of the accessibility of a point to both the conventional public transport network (i.e. bus, Metrolink and rail) and Greater Manchester's Local Link (flexible transport service), considering walk access time, service availability, and average waiting time. The method is essentially a way of measuring the density of the public transport provision at any location within the Greater Manchester region.

5.5.2 The accessibility index score is categorised into eight levels (1 to 8), where level 8 represents a high level of accessibility (described as 'excellent') and level 1 represents a low level of accessibility (described as 'very poor'). the Site is located in an area with a GMAL rating of 8, with excellent accessibility. This is a particular strength of the Site, which offers strong multi-modal links opportunities.

5.5.3 Accessibility by bus, rail and Metrolink are considered further below.

Bus Accessibility

5.5.4 Guidance from the Chartered Institution of Highways and Transportation (CIHT) document *'Buses in Urban Developments'* (2018) indicates that ideally, a bus stop should be located within the following from a new development based on its location and the number of services:

Situation	Maximum Walking Distance (m)
Core bus corridors with two or more high-frequency services	500
Single high-frequency routes (every 12 minutes or better)	400
Less frequent routes	300
Town/city centres	250

Table 5.2 – CIHT Maximum Suggested Walking Distances to Bus Stops

5.5.5 A distance of 400m, which equates to an approximate 5-minute walk, is also commonly cited as a benchmark for access to local bus services.

5.5.6 The nearest bus stop is located to the north-east of the Site on Medlock Street, within a c.400m walk, thereby at the CIHT's 400m walk distance threshold. Future residents could also walk c.550m to the bus stops along Whitworth Street West and opposite the Deansgate rail station with more services and the number 2 Free Bus. **Table 5.3** details the bus services that call at these stops and their associated frequencies:

Bus Service	Route	Peak Hourly Frequency		
		Mon – Fri	Sat	Sun/Hols
From Medlock Street				
84	Manchester – Whalley Range – Chorlton – Chorlton Green	Hourly	Hourly	-
256	Manchester – Hulme – Stretford – Davyhulme – Flixton	10 mins	15 mins	30 mins
733	Cheetham Hill – Whalley Range High School (school bus)	1 in the AM	-	-

Bus Service	Route	Peak Hourly Frequency		
		Mon – Fri	Sat	Sun/Hols
		1 in the PM		
From Whitworth Street West				
255	Manchester – Old Trafford – Stretford – Urmston – Flixton – Partington	30 mins	30 mins	Hourly
291	Manchester – Old Trafford – Trafford Park – intu Trafford Centre	30 mins in the early AM	-	-
X50	Manchester – Old Trafford – intu Trafford Centre	10 mins	10 mins	10 mins
X58	Manchester – Davyhulme – Flixton Express	1 in the AM	-	-

Table 5.3 – Summary of Bus Service Frequencies

5.5.7 As shown in **Table 5.3**, there is a reasonably good frequency of bus services (in combination) stopping close to the Site which provide convenient access to locations such as The Trafford Centre, Manchester City Centre, Urmston and Stretford, amongst others.

5.5.8 Furthermore, the Site is situated within a c.550m walking distance to Whitworth Street West, which is one of the calling points of the number 2 Manchester free bus route. The free bus is a service providing direct access to the Deansgate and Oxford Road railway stations along with key city centre locations. The free bus frequencies are detailed in **Table 5.4**:

Free Bus Service		Peak Frequency		
		Weekday	Saturdays	Sun/Hols
1	Piccadilly – Piccadilly Gardens – Chinatown – Market Street – Deansgate – Opera House – Albert Square – New York Street – Central Coach Station circular	07:00 – 22:00 Every 10 mins (Every 15 mins after 18:30)	08:30 – 22:00 Every 10 mins (Every 15 mins after 18:30)	09:30 – 18:00 Every 12 mins
2	Piccadilly – Oxford Road – Deansgate – Manchester Victoria – Shudehill – Northern Quarter circular	06:30 – 22:00 Every 10 mins (Every 15 mins after 18:30)		
2 (peak only)	Piccadilly – Oxford Road – Deansgate – Salford Central – Manchester Victoria – Shudehill – Northern Quarter circular	06:30 – 09:10 and 16:00 – 18:30	-	-

Table 5.4 – Free Bus Services

5.5.9 Overall, the Site is well served by bus. the Site also benefits from the free bus service that operates along Whitworth Street West.

Rail Accessibility

5.5.10 The Chartered Institution of Highways and Transportation (CIHT) document, *'Planning for Public Transport in Developments'* notes that those travelling to a site by rail will typically be prepared to walk further to the site than those travelling by bus, with a preferred distance of 800m.

5.5.11 The nearest railway station is Deansgate Railway Station, located approximately 600m to the north of the Site. A summary of rail services from the station is summarised in **Table 5.5**:

Destination	Service Frequency		
	Peak Weekday	Peak Saturday	Peak Sunday
Blackpool North	2	1	1
Bolton	3	2	1
Liverpool Lime Street	2	2	1
Preston	2	1	1
Southport	2	2	1
Stockport	1	1	1
Warrington Central	2	2	1

Destination	Service Frequency		
	Peak Weekday	Peak Saturday	Peak Sunday
Wigan	3	3	3

Table 5.5 – Summary of Rail Services from Deansgate Railway Station

5.5.12 The rail services that run to Deansgate Railway Station provide access to various locations across the North West of England, including, Liverpool, Manchester Airport, Southport and Manchester Oxford Road, amongst others. Trains run throughout the day and evening 7 days a week.

5.5.13 In addition to the locations noted above, they also serve key local destinations such as Bolton, Wigan, Preston, Buxton, Birchwood, Widnes and Warrington.

5.5.14 A short connection from Deansgate to Manchester Oxford Road or Manchester Piccadilly facilitates for journeys to destinations further afield such as London, Nottingham, Norwich, Leeds, Hull and Sheffield.

5.5.15 It is therefore considered the Site is highly accessible via rail.

Metrolink (Light Rail) Accessibility

5.5.16 There are Metrolink stops located at Deansgate-Castlefield (c.550m walking distance north of the Site). **Table 5.6** outlines the frequencies of services that can be utilised at this Metrolink stop:

Route	Monday to Thursday	Friday and Saturday	Sundays/Hols
[Blue Line] Eccles or MediaCity UK – Ashton-Under-Lyne	6-minute frequency between 05:53 and 23:03	6-minute frequency between 05:53 and 00:03	6-minute frequency between 06:53 and 22:53
[Purple Line] Altrincham – Piccadilly	12-minute frequency between 05:49 and 23:37	12-minute frequency between 05:49 and 00:37	12-minute frequency between 06:49 and 23:37
[Green Line] Altrincham – Bury	12-minute frequency between 05:49 and 23:01	12-minute frequency between 05:49 and 00:01	12-minute frequency between 06:49 and 23:01
[Pink Line] East Didsbury – Rochdale	12-minute frequency between 05:50 and 23:14	12-minute frequency between 05:50 and 23:50	12-minute frequency between 06:46 and 22:46
[Navy Line] Victoria – Manchester Airport	12-minute frequency between 05:57 and 23:09 20-minute frequency between 03:00 and 06:00	12-minute frequency between 05:57 and 00:09 20-minute frequency between 03:00 and 06:00	12-minute frequency between 06:52 and 23:04 20-minute frequency between 03:00 and 07:00

Table 5.6 – Summary of Metrolink Services

5.5.17 The Metrolink services provide access to the Site seven days a week with trams running from a variety of locations within Manchester and the wider area between 6 and 20 minutes all day and into the evening.

5.5.18 It is therefore considered that the Site is highly accessible via Metrolink.

5.6 Summary

5.6.1 The above sections have demonstrated that the site is highly accessible by active and sustainable modes of transport; the surrounding area exhibits excellent levels of pedestrian and cycling infrastructure, and there are a number of public transport opportunities within walking distance of the site.

5.6.2 The site is well located to take advantage of the excellent existing public transport facilities, including bus, Metrolink and rail, in addition to walking and cycling opportunities, which will therefore provide viable alternatives to travel by car.

6.0 Residential Travel Plan Initiatives

6.1 Introduction

6.1.1 Considering the high levels of accessibility and proximity of the city centre, it is anticipated the vast majority of residents, staff and visitors will travel to / from the site via sustainable modes of transport.

6.1.2 This section of the FTP sets out the initiatives that could be implemented in a full residential Travel Plan to minimise the number of car trips generated by the Proposed Development and encourage residents to use sustainable modes of transport. The initiatives below are in line with the aims, objectives and benefits set out in **Section 2** of this document.

6.2 Appointment of Travel Plan Coordinator

6.2.1 At least one month before first occupation of the Proposed Development, a Travel Plan Coordinator (TPC) will be appointed. The duty of the TPC will be to take responsibility for ensuring that the various elements of the Travel Plan are monitored and operate effectively to offer a genuine choice of travel modes. The responsibilities of a TPC are further detailed in **Section 8** of this report.

6.3 Production of Residential Welcome Packs

6.3.1 Welcome Packs can be important in influencing travel patterns and therefore Welcome Packs will be supplied to all residents at the Proposed Development upon moving in. The contents will include the following:

- Introduction to the Travel Plan concept detailing objectives and aspirations;
- Literature on the health benefits of walking, cycling and environmental benefits of sustainable modes of transport;
- Personal travel initiatives;
- Details of Transport for Greater Manchester's online journey planning resources: tfgm.com/plan-a-journey;
- Maps showing local walking/cycling routes and places of interest;
- Details of public transport services, including timetables and routes; and
- Details of the TPC.

6.3.2 As well as providing such information in Welcome Packs, community notice boards (either physical or virtual) could also be provided to display relevant information as set out above.

6.4 Measures to Encourage Walking

6.4.1 Walking is the most sustainable and accessible mode of travel. Any individual in fair health could incorporate walking into part of their journey. Furthermore, 30 minutes of moderate activity 5 or more times per week is likely to enhance the health and fitness of the individual.

6.4.2 It has been demonstrated throughout **Sections 3** and **5** of this FTP that there is an existing high level of pedestrian infrastructure in the surrounding area. It is also intended to improve the pedestrian offering in immediate vicinity of the Site as part of the Proposed Development, with improved footways and the provision of high quality public realm within the Site. The following measures will be provided in order to encourage residents to walk:

- Raise awareness of the health benefits of walking;
- Clear signing of pedestrian routes within and adjacent to the site;
- Adequate lighting, landscaping and shelter to create pleasant pedestrian waiting areas;
- Information provided within the Welcome Packs on the local pedestrian routes, including public footpaths; and
- Promote the Greater Manchester Walking website at gmwalking.co.uk/ which provides resources on routes, tips, local walking groups, or the www.walkit.com website for journey planning on foot.

6.4.3 Additional measures such as marketing campaigns in line with 'Walk to Work Week' and the implementation of a 'walking buddy' scheme, issuing personal alarms, and a pool of umbrellas could also be considered.

6.5 Measures to Encourage Cycling

6.5.1 It has been demonstrated throughout **Sections 3** and **5** of this FTP that there is an existing high level of cycle infrastructure in the surrounding area. The Proposed Development will also provide 100% cycle parking provision to encourage cycling, with additional cycle parking for visitors.

6.5.2 In addition to the above infrastructure, the following measures will be provided to encourage residents to cycle:

- Information on the local cycle network routes made available through the previously discussed Welcome Packs;
- Promoting the Cycle2Work scheme;
- Promote the availability of cycling information, including route maps and useful tips and guidance, on the Sustrans website www.sustrans.org.uk;

- Promote the availability of local information on cycle training, parking, paths, maps, hire, or bringing bicycles on public transport on the Transport for Greater Manchester website tfgm.com/cycling-and-walking;
- Encouraging local cycle clubs / forums to be invited to take part in Travel Plan promotional events to raise awareness; and
- Promotion of events such as 'National Bike Week'.

6.5.3 Additional measures such as promoting Transport for Greater Manchester's cycle training sessions (family confidence training, learn to ride, road rider ready, one-to-one, basic / intermediate maintenance), having the TPC negotiate discounts with local cycle retailers, and providing a bicycle / puncture repair kits on-site could also be considered.

6.6 Measures to Encourage Public Transport

6.6.1 It has been demonstrated throughout **Sections 3** and **5** of this FTP that the Site is highly accessible by public transport, and that there are further opportunities throughout Manchester City Centre and beyond. The following measures will be provided to encourage residents to travel by public transport:

- Advertise details of the 'My TfGM' mobile app and online Journey Planner http://my.tfgm.com/;
- Advertise details of the Traveline Journey Planning tool for the North West. Future residents travelling out of Greater Manchester can contact Traveline by phoning 0871 200 2233. They can also utilise the Traveline website at www.traveline-northwest.co.uk;
- Provision of a map showing local bus and rail stations, and Metrolink stops, in the vicinity of the Site;
- Provide up-to-date bus details including timetables / contact information in the Welcome Packs; and
- Advertise any promotions / discounts offered by Transport for Greater Manchester and public transport operators.

6.6.2 Additional measures such as liaising with bus companies and Transport for Greater Manchester on any future improvements and / or extensions to local services could also be considered.

6.7 Car Sharing

6.7.1 Car sharing is an effective way of reducing single occupancy car trips if a number of residents travel to the same location each day.

6.7.2 There are car sharing organisations that offer a matching service. Residents would be able to use the website: www.carsharegm.com, which has been developed by Transport for Greater Manchester, to organise car shares. Notwithstanding this, CarshareGM is an employer-based car sharing scheme and

residents would need to work for an employer that has signed up to the scheme to benefit from this. It is considered that car sharing would be an attractive facility for residents who do not own a car but require occasional use.

6.7.3 Alternatively, Enterprise Car Club has a vehicle location within a 7-minute walk from the Site at Qpark First Street, First St, M15 4FN to east of the Site, with a number of alternative locations in the city centre. Users would need to register and book the car appropriately through the website: www.enterprisecarclub.co.uk. Again, this scheme could be promoted by the TPC.

6.7.4 It is considered that car sharing and car clubs would be an attractive facility for residents and visitors who do not own a car but require occasional use. Alongside promoting such schemes, it would be appropriate to raise awareness of car ownership costs and highlight the social and economic benefits of car sharing. This would be led by the TPC.

7.0 Targets

7.1 Introduction

7.1.1 Target setting is an important part of any Travel Plan, providing a focus for the overall process and a measure against which the Travel Plan initiatives can be judged. This section sets out the target strategy and provides an overview of the data that should be collected as part of future travel surveys.

7.2 Data Collection and Analysis

Travel Surveys

7.2.1 As the Proposed Development has not yet been constructed and occupied, it is not possible to undertake any travel surveys of future residents. Therefore, it is not appropriate to provide a definitive set of targets at this stage.

7.2.2 In order to understand travel habits, travel surveys would be distributed to all residents within three months of occupation of the 150th apartment within each phase of the Proposed Development . Recipients would be encouraged to participate, and the surveys would extract the following key information:

- Place(s) of work;
- Usual mode of travel and reason for modal choice;
- Attractiveness of various active and sustainable modes;
- Any barriers to walking, cycling and public transport; and
- Initiatives that would encourage residents to travel more sustainably.

7.2.3 This information would enable analysis to be undertaken to establish final targets. It would also provide information on reasons for that modal split and identify measures that would encourage a modal shift.

7.2.4 Surveys would be distributed electronically via SurveyMonkey, which is an online survey service widely used by both private and public sector organisations for data collection. Residents would be sent this link and can simply click to get directed to an internet-based survey. All results would be recorded on a computer database for analysis.

7.2.5 Paper surveys could also made available to residents, if required. All the results would be manually transferred to the database for analysis alongside the SurveyMonkey results.

7.2.6 The information obtained would be used to undertake travel performance indicator and modal split analysis. Residents would then be surveyed annually from the baseline travel survey for the duration that the TPC is appointed to review progress against the target modal splits.

Travel Plan Performance Indicators

7.2.7 The following Travel Plan performance indicators could also be considered upon receipt of the travel survey data to guide the future development of the Travel Plan:

- **Attractiveness of Sustainable Modes** – e.g. perceived safety in the surrounding area, punctuality and condition of public transport, condition of public realm areas and condition of cycle infrastructure;
- **Uptake of Alternative Modes** – e.g. uptake of public transport, registration and participation in car share schemes, use of car clubs and levels of pedestrian and cyclist activity;
- **Car Ownership and Mode of Travel** – e.g. average household car ownership and travel to work by mode; and
- **Travel Plan Awareness** – e.g. appreciation of the Travel Plan process and knowledge of the benefits offered by the Plan.

Modal Split Analysis

7.2.8 Once the travel surveys have been undertaken, it is possible to monitor modal splits so that Travel Plan initiatives can be tailored to increase uptake of certain modes of travel. Modal split targets are set for a reduction in private car use offset by an increase in sustainable modes.

7.2.9 To provide an indication of potential targets, an example is provided in **Table 7.1** below:

Example of Potential Targets					
Travel Mode	**Existing Modal Split Percentage**	**Short Term Target Modal Shift Change**	**Medium Term Target Modal Shift Change**	**Long Term Target Modal Shift Change**	**Total Target Modal Shift Change**
Car Driver	TBC following surveys	-2%	-4%	-4%	**-10%**
Car Share		+1%	+1%	+1%	**+3%**
Public Transport		+1%	+1%	+1%	**+3%**
Cycle		-	+1%	+1%	**+2%**
Foot		-	+1%	+1%	**+2%**

Table 7.1 – Example of Potential Targets

7.2.10 The example modal split targets above aim for a 10% reduction in single occupancy car trips, whilst aiming for a 10% increase in trips by more sustainable modes such as public transport, walking and cycling, as well as car sharing.

7.2.11 The above targets are indicative only, and final targets will be decided following the receipt of the baseline travel surveys. For example, if uptake of cycling is found to be low through the modal split

analysis, a cycle awareness event could be organised. Modal split targets could then be set in future Travel Plan updates if deemed appropriate.

7.3 SMART Targets

7.3.1 All performance indicator targets and potential modal split targets are considered to be suitable interim measures before travel surveys are undertaken.

7.3.2 At this point, final targets will be set through consultation with Manchester City Council. All targets will be **SMART** (**S**ite-specific – **M**easurable – **A**chievable – **R**ealistic – **T**imed).

8.0 Monitoring and Review

8.1 Introduction

8.1.1 This section of the report sets out the proposed management arrangements associated with the FTP. It also sets out the next steps with regards to converting this FTP into a full Travel Plan.

8.2 Responsibility and Management

8.2.1 Overall responsibility for the FTP will lie with the Applicant. Following construction and occupation, the FTP will need to be updated to a full Travel Plan. This will involve undertaking travel surveys to establish the travel patterns of residents.

8.2.2 The survey information will enable analysis to be undertaken to establish mode share targets subject to consultation with Manchester City Council. It will also provide information on the reasons for modal splits and identify measures that may encourage a modal shift.

8.2.3 At this point, the day to day responsibility will shift from the Applicant to the appointed TPC.

8.2.4 Notwithstanding, adequate consultation and support from the scheme developer is required to ensure the smooth implementation of the Travel Plan. A number of measures to be undertaken comprise:

- Representative(s) of the residential community to be appointed to work with the TPC;
- Support for a TPC in ways including, but not limited to, funding to enable them to fulfil their duties and deliver the Travel Plan as intended; and
- A commitment to actively promoting car-sharing, car clubs and sustainable transport options at the Site.

8.3 Travel Plan Coordinator

8.3.1 The TPC will take responsibility for ensuring that the various elements of the plan are monitored and operate effectively to offer a genuine choice of travel modes. Typical duties include:

- Leading on the delivery of the Travel Plan;
- Representing the human face of the Travel Plan and explaining its purpose and opportunities on offer;
- Implementing and promoting sustainable travel initiatives to ensure a coordinated approach across the Site as a whole;
- Promoting individual measures and initiatives in the Travel Plan and instigate a marketing campaign upon first occupancy of the Site;

- Monitoring the Travel Plan and identifying trends in relation to the targets and reporting the findings to relevant parties (i.e. Manchester City Council); and
- Taking a key role in reviewing the Travel Plan according to the achievement of the modal shift targets specified therein.

8.3.2 A TPC will be nominated in due course, at least one month before first occupation. The TPC will remain appointed until final occupation of each phase of the Proposed Development. If less than 10% of the apartments are occupied in any year then final occupation of that phase shall deemed to have occurred. At this point, the TPC role and any responsibilities relating to the Travel Plan would transfer to a local residents' association.

8.4 Monitoring and Evaluation

8.4.1 The monitoring of travel behaviour is vital to measure progress towards the targets and will be the responsibility of the appointed TPC. Apart from receiving regular updates from residents and liaising with Manchester City Council on transport-related matters, the main monitoring process will involve travel surveys as described in **Section 7** above.

8.4.2 The results of each survey will be used to review progress against target modal splits, where the TPC will be required to calculate the percentage share of all travel modes to and from the Site. Where targets are not met, remedial actions will be considered and implemented where necessary.

8.4.3 Monitoring reports will be provided to officers at Manchester City Council every two years following the receipt of the baseline travel survey. The reports will include a comparison of achievements against targets and remedial actions where required. They will also include a summary of changes to any personnel, any new or changed partnerships and outline plans and proposals for the coming year In addition, a summary of the survey results would be made available to residents upon the completion of the survey analysis.

8.4.4 Monitoring surveys will be carried out annually from the baseline survey for the duration that the TPC is appointed to ensure that the Travel Plan reflects local circumstances and opportunities.

9.0 Action Plan

9.1 Introduction

9.1.1 **Table 9.1** below summarises the key actions from the document by providing an Action Plan for the Travel Plan process:

Action	Target Date	Responsibility
Appoint TPC	One month before first occupation	Renaker Build Ltd.
Produce Welcome Pack	Upon occupation of the Proposed Development	TPC
Undertake Baseline Travel Survey	Within three months of occupation of the 150th apartment within each phase of the Proposed Development	TPC
Finalise Modal Split Targets	Within one month of undertaking the travel surveys	TPC in conjunction with Manchester City Council
Update FTP to a full Travel Plan	Within three months of finalising modal splits with Manchester City Council	TPC
Implement Travel Plan Initiatives	During occupation of the Proposed Development	TPC
Undertake Annual Travel Survey	Annually following the baseline travel survey for the duration that the TPC is appointed	TPC
Present Monitoring Reports	Every two years following receipt of the baseline travel survey for the duration that the TPC is appointed	TPC

Table 9.1 – Action Plan

Plans

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Project:
GREAT JACKSON STREET - PLOT F

Drg Title:
ACCESSIBILITY
INDICATIVE WALKING CATCHMENT

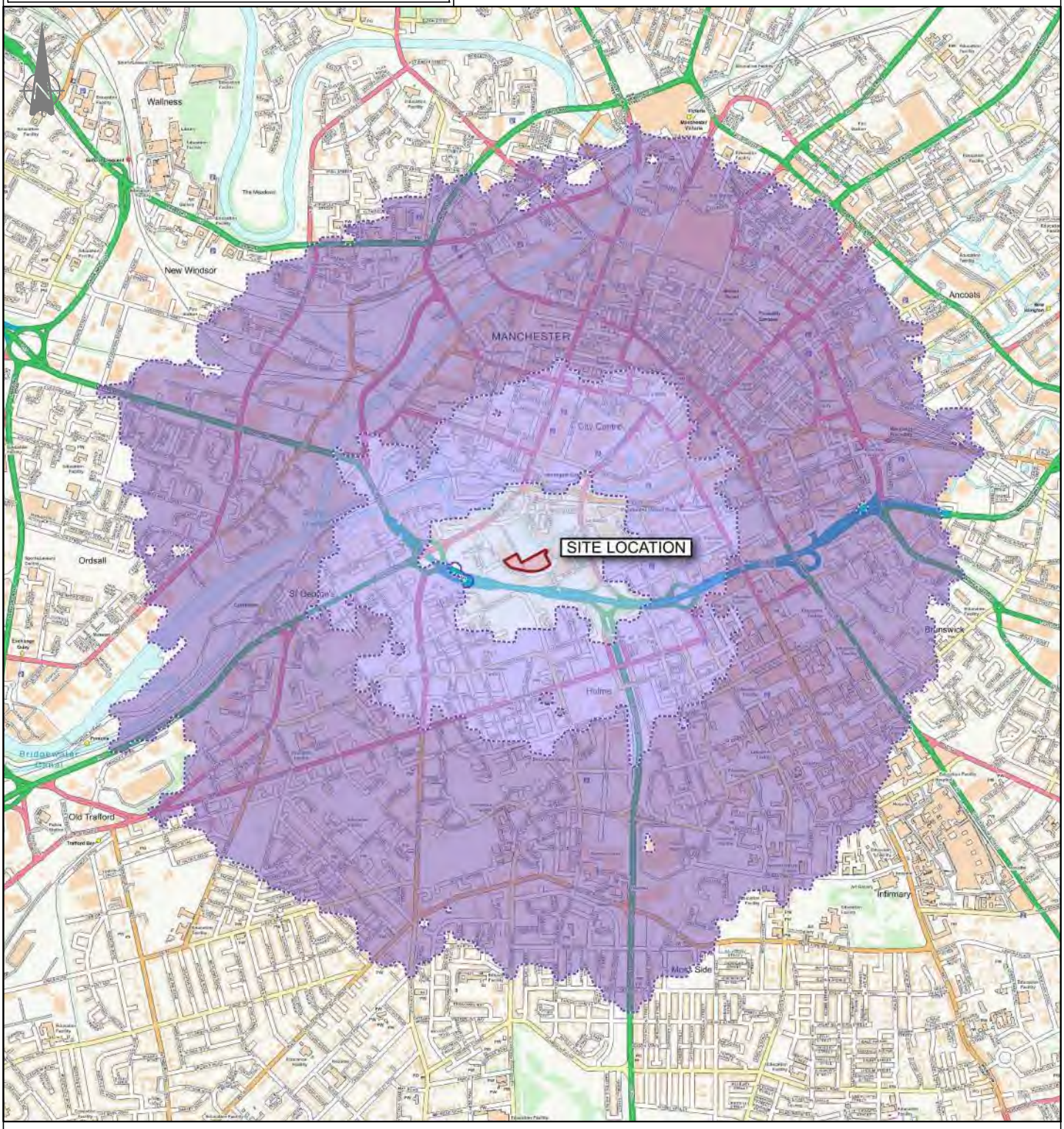
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Drawn By: JM | Checked By: DD

Designed By: JM | Date: 01/06/21

Scale: NTS

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
78524	CUR	00	XX	DR	TP	06003	P01



KEY:
Site
Walking Catchment:
500m
1000m
2000m

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Project:
GREAT JACKSON STREET - PLOT F

Drg Title:
ACCESSIBILITY
INDICATIVE CYCLE CATCHMENT

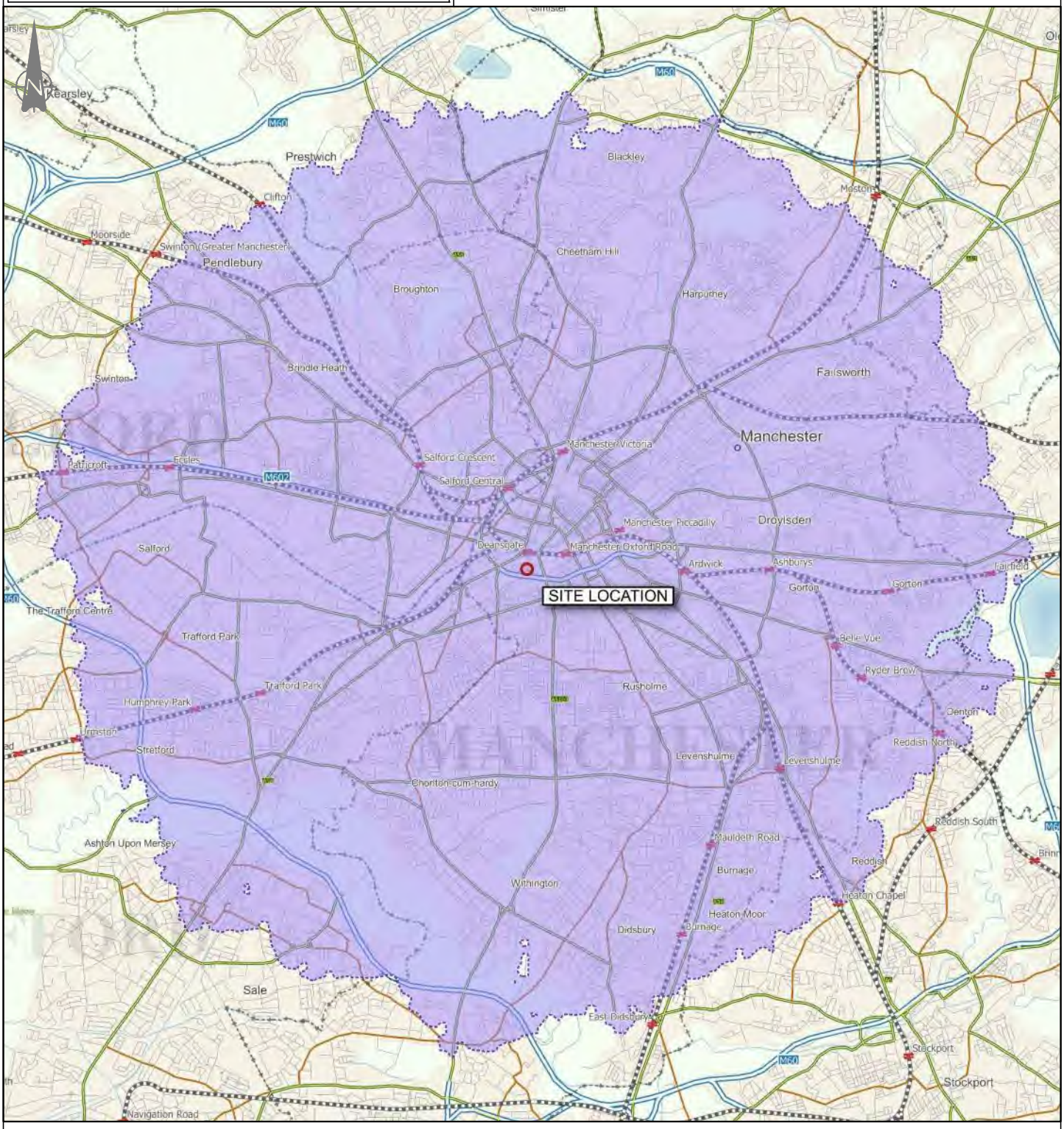
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Designed By: JM | Date: 01/06/21

Scale: NTS

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
78524	CUR	00	XX	DR	TP	06004	P01



KEY:
Site
Cycle Catchment:
8000m

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Project:
GREAT JACKSON STREET - PLOT F

Drg Title:
ACCESSIBILITY
INDICATIVE PUBLIC
TRANSPORT CATCHMENT

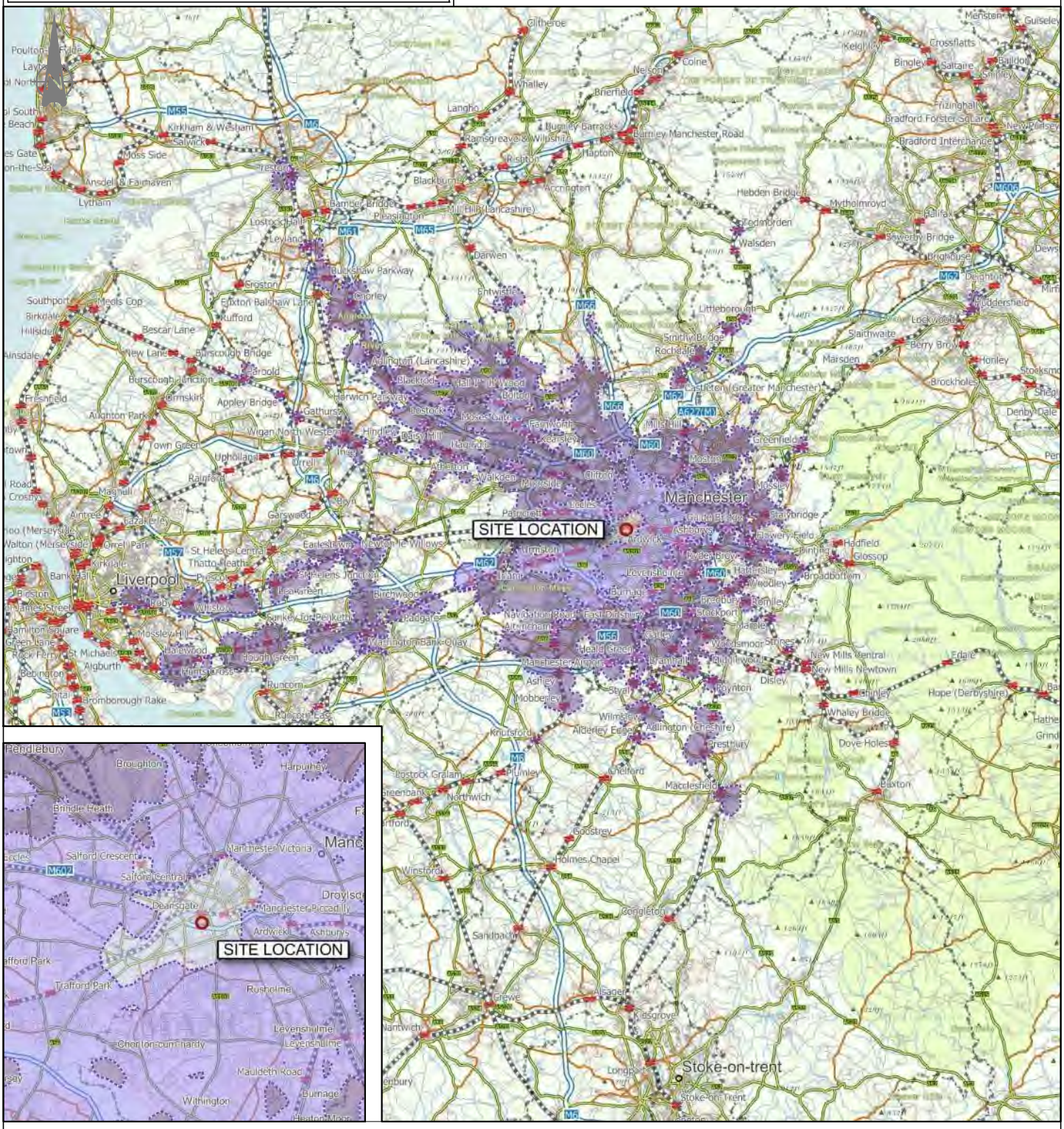
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Scale: NTS

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
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KEY:

Site

Public Transport Catchment:
20 minutes
40 minutes
60 minutes

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Appendix A – Site Layout Plan



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Do not scale off dimensions.
All dimensions to be checked on site by contractor.

Contractor to report any dimensional discrepancies, errors or omissions prior to commencing on site.

NOTE:
Previously issued as Z1-SHP-G100-PL-00-001

NORTH

Rev	Date	Description
P10	11-05-2021	Street Carpark Analysis
P11	27-05-2021	Public space update
P12	03-06-2021	Layout update
P13	09-06-2021	Ground floor layout to TPM
P14	11-06-2021	Design Update
P15	01-07-2021	Issue to design team
P16	09-07-2021	Landscape update
P17	14-07-2021	Private garden update
P18	21-07-2021	Design Development
P19	28-07-2021	F2 emergency stair update
P20	11-10-2021	Bollard update

Project Title
Great Jackson Street - Plot F
Manchester

Drawing Title
Site Plan
Level 00

Project No
10334

Scale
1 : 500 @ A3

Status
FOR INFORMATION

SHP Drawing Code PROJ - ORIG - ZONE - ROLE - CLAS - TYPE - LOC - SEQ
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Revision
P20

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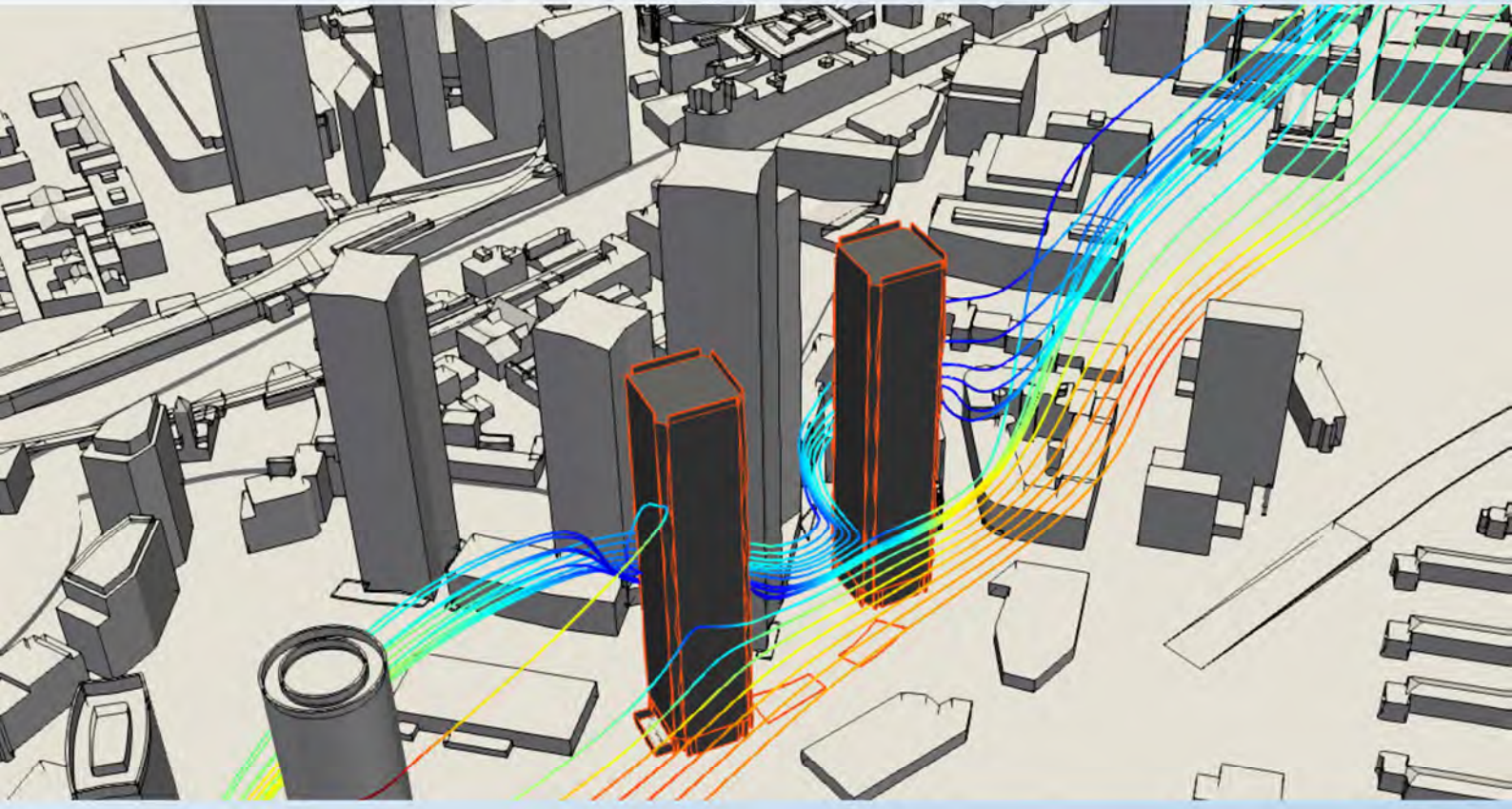
14. Wind Microclimate

Appendix 14.1 – Wind Microclimate Technical Report

Renaker Build Ltd.

PLOT F – GREAT JACKSON ST

Wind Microclimate Study



OCTOBER 2021

PUBLIC

Renaker Build Ltd.

PLOT F – GREAT JACKSON ST

Wind Microclimate Study

TYPE OF DOCUMENT (VERSION) PUBLIC

PROJECT NO. 70078874

DATE: OCTOBER 2021

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QUALITY CONTROL

Issue/revision	First issue	Revision 1	Revision 2
Remarks	Draft	Final	Revised Final
Date	10th September 2021	20th September 2021	6th October 2021
Prepared by	Aidan McLoughlin	Aidan McLoughlin	Aidan McLoughlin
Signature	----------	----------	
Checked by	Nina Glover	Nina Glover	Nina Glover
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Authorised by	Stefano Cammelli	Stefano Cammelli	Stefano Cammelli
Signature	----------	----------	
Project number	70078874	70078874	70078874
Report number	1	1	1
File reference	Appendix 14.1 – Wind Microclimate Technical Report.pdf	Appendix 14.1 – Wind Microclimate Technical Report.pdf	Appendix 14.1 – Wind Microclimate Technical Report.pdf

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EXECUTIVE SUMMARY

A wind microclimate study has been performed for the proposed Great Jackson Street Plot F development in Manchester. A total of five (5) surrounds configurations (baseline included) were studied. All assessments included the existing landscaping on the Deansgate Square and River Street developments. Where relevant, the proposed landscaping for the proposed Plot F development was also included.

The assessment used computational fluid dynamics (CFD) simulations to determine the aerodynamic effect that the proposed buildings have on the wind patterns around the site. This was combined with long-term wind speed data to provide a statistical representation of the wind conditions, which were then compared against pedestrian comfort and distress criteria.

Wind conditions at street level, with the inclusion of the proposed landscaping scheme and the purposely designed wind mitigation measures, are safe for all users across all scenarios.

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1 INTRODUCTION

1.1.1. WSP have been appointed by Renaker Build Ltd to perform a wind microclimate study around the proposed 'Great Jackson Street Plot F' development in Manchester. The development consists two 150m tall towers with associated podia.

1.1.2. This study aims to compare the pedestrian-level wind environment around the proposed development against comfort and safety criteria and to the conditions of the existing site. The study pays particular attention to pedestrian access routes, seating areas, as well as building drop-offs and entrances.

1.2 URBAN WIND EFFECTS

1.2.1. The wind microclimate around an urban environment is affected by terrain, buildings, and other obstructions. The introduction of a new building development can affect the local wind flow patterns, which can produce an uncomfortable and/or unsafe wind environment at pedestrian level.

1.2.2. This is particularly important for buildings which are taller than their surroundings. Fast-moving high-level winds can downdraft to street level along windward faces of buildings. As air then moves into the low-pressure wake of the building, it can accelerate around corners and/or through restrictions, causing localised regions of relatively high wind speed.

1.2.3. The assessment of environmental wind flows in the built environment lies outside the scope of BS EN 1991-1-4:2005[1], the current UK code of practice for the assessment of wind effects on buildings, which focuses on wind loading. Also, there are no handbooks or engineering methods from which reliable assessments of the complex environmental wind flows that shape the pedestrian level wind conditions can be derived. A detailed Computational Fluid Dynamics (CFD) study was therefore used to provide a reliable quantification of the pedestrian level and high-level terrace wind environment at locations such as pedestrian access routes, building entrances and high-level terraces. The study combines numerically obtained pedestrian level wind speeds at key areas within and around the site of the proposed development with long-term wind frequency statistics transposed from the nearest suitable weather station to determine the probability of local wind speeds exceeding comfort and safety thresholds for a range of common pedestrian activities. The assessment is based on the LDDC version of the Lawson criteria which represents best industry practice in the UK.[2]

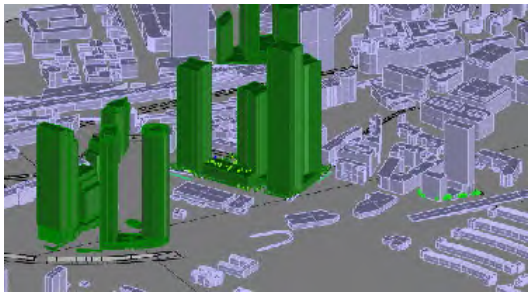
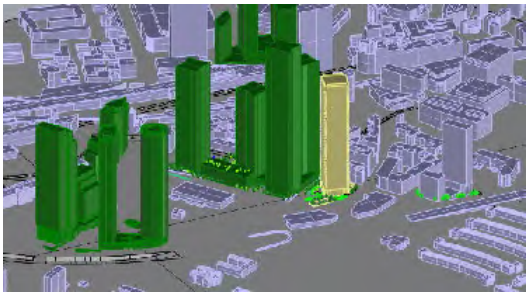
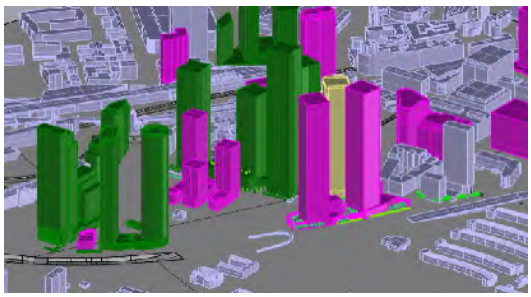
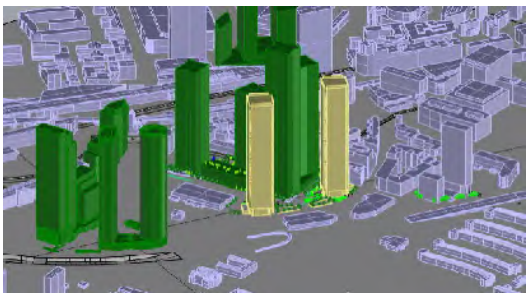
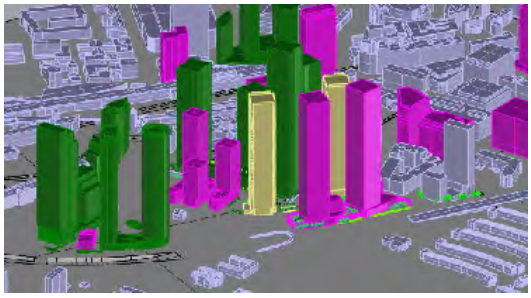
2 METHODOLOGY

2.1 ASSESSMENT METHODOLOGY

2.1.1. The pedestrian-level wind environment in an urban setting will depend on the general wind conditions, as well as on the effects of the urban environment itself. Therefore, the assessment consists of three main parts: calculation of the urban environment's **aerodynamic effect on the wind**; which is then **combined with historical wind data;** and, finally, **compared against criteria** to quantify the discomfort and/or level of distress caused by the wind.

2.1.2. CFD has been used to compute the aerodynamic effect for all the scenarios depicted in Table 2-1.

Table 2-1 - All scenarios simulated as part of the wind microclimate studies.

Scenario 1: Baseline 	**Scenario 2**: Phase A in existing surrounds 
Scenario 3: Phase A with cumulative developments 	**Scenario 4**: Phases A+B in existing surrounds 
Scenario 5: Phases A+B with cumulative developments 	

2.2 SITE AND STUDY AREA

2.2.1. The project site is bound by Great Jackson Street, Melbourne Street, Pond Street and Owen Street. The areas to the south consist of low-rise buildings, while other directions consist primarily of medium and high-rise buildings.

2.2.2. A three-dimensional CAD model of the site and surrounding buildings has been constructed using the following drawing sets:

Table 2-2 - Drawing sets used to construct the model.

Date issued (dd/mm/yy)	Title	Filename	Usage
20/07/21	2021.07.19 – Final models	F1-SHP-G200-PL-01-001	Construction of proposed development
20/07/21	2021.07.19 – Final models	F2-SHP-G200-PL-01-001	Construction of proposed development
20/07/21	2021.07.19 – Final models	Z1-SHP-G100-PL-*	Construction of proposed development
20/07/21	2021.07.20 – Landscaping	F1-TPM-G710-PL-XX-3851 101 FINAL DRAFT	Positioning of Plot F proposed landscaping

The model includes the site and all buildings within an approx. 500m radius of the site as shown in Figure 2-1. The flow around these buildings and terrain is explicitly modelled within this radius, whilst outside this region obstructions are accounted for using mathematical models which assign a ‘roughness’ depending on the terrain type.

A list of surrounding schemes to be included in the 3D CAD model was agreed with Deloitte. The design information for all currently under-construction and future developments was taken from the Manchester Planning Portal, where applicable.

2.2.3. The detail of the CAD model increases from approximately 1m for the surrounding buildings to 0.2m around the site.

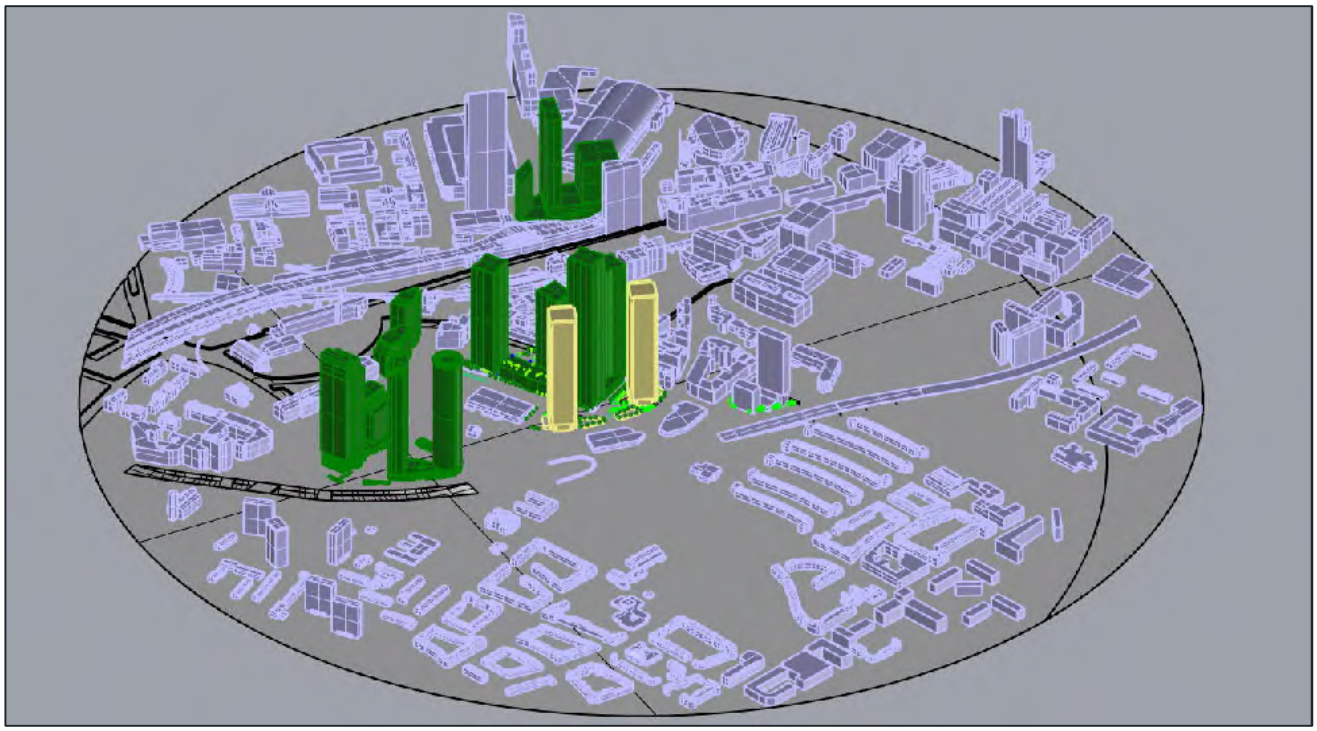


Figure 2-1 - 3D CAD model showing the explicitly-modelled surrounding buildings and terrain.

2.3 ASSESSMENT CRITERIA

2.3.1. The criteria used in this study were developed by Lawson (2001)[2], and have been reproduced in Table 2-3. Like most criteria used in assessments of pedestrian wind conditions, they relate a threshold wind speed and a threshold frequency to the suitability of an activity.

2.3.2. The frequency threshold for each criterion is 5% - or about three weeks per year. It is also useful to assess frequency on a seasonal basis. For example, an outdoor seating area may require wind conditions suitable for sitting or standing in summer, but not in winter when the seating is unlikely to be used. For season-specific results, the criteria are based on 5% of hours across the months in that season.

Table 2-3 - Comfort criteria used in this study.

Criteria	Suitability	Threshold mean wind for 5% of hours [ms^{-1}]
Pedestrian sitting	Outdoor seating and areas one can occupy comfortably for long periods	4
Pedestrian standing	Main building entrances, pickup/drop-off points	6
Pedestrian walking	Appropriate for strolling	8
Business walking	Can be tolerated if one's objective is to walk, run or cycle without lingering	10
Unsuitable	Nuisance for most pedestrian activities	>10

2.3.3. Additionally, criteria for safety have been defined based on 2.2 hours' exceedance per year. These are areas where someone could find walking difficult or even lose their footing. These criteria are reproduced in Table 2-4.

Table 2-4 - Safety criteria used in this study.

Criteria	Description	Threshold mean wind speed for 2.2hr/year [ms^{-1}]
S15	Unsuitable for frail persons, cyclists etc	15
S20	Unsuitable for all pedestrians	20

2.4 WIND CLIMATE ANALYSIS

2.4.1. Wind data was collected from the nearby meteorological station at Manchester airport, which is approximately 14km to the south of the site. The data consisted of mean hourly wind speeds and directions over the last 20 years. The data was discretised into 36 bins, representing 10° sectors. The nomenclature adopted in this report assigns 0° to winds coming from north and increases clockwise such that 90° refers to winds blowing from east, 180° from south and 270° from west.

2.4.2. Figure 2-2 shows a summary of the wind data at 10m height in open country for the whole year in the form of a wind rose. Wind direction is shown on the angular axes, with percentage of hours on the radial axes. From this plot, it can be deduced that the prevailing strong winds from the south, which blow over relatively flat terrain, will be the dominant winds for the site.

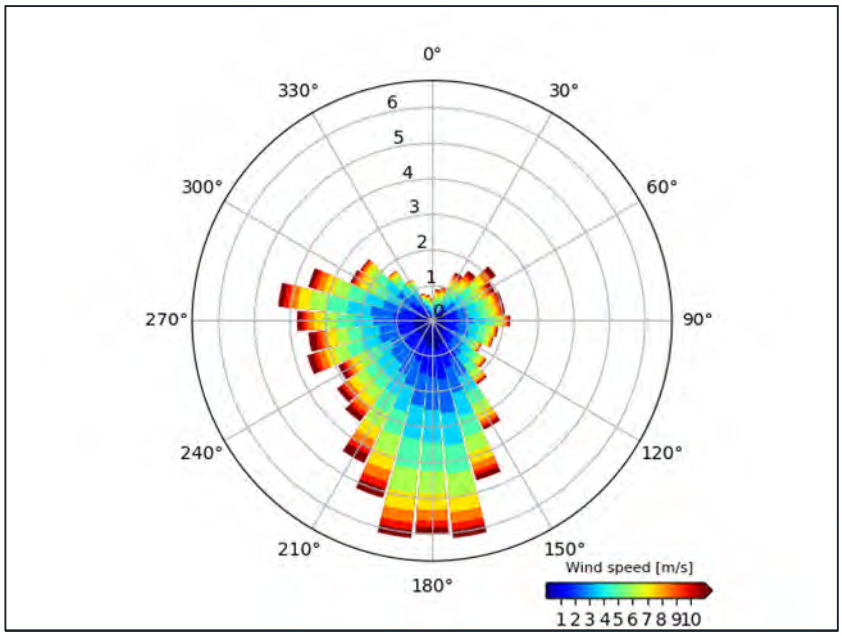


Figure 2-2 - **Annual wind rose for Manchester (10m height in open country terrain), showing the frequency and magnitude of mean-hourly wind speeds.**

2.4.3. Figure 2-3 shows similar wind roses split into three-month seasons. It shows that during spring, the north-easterly sector provides additional strong and frequent winds while during summer, westerly winds are frequent.

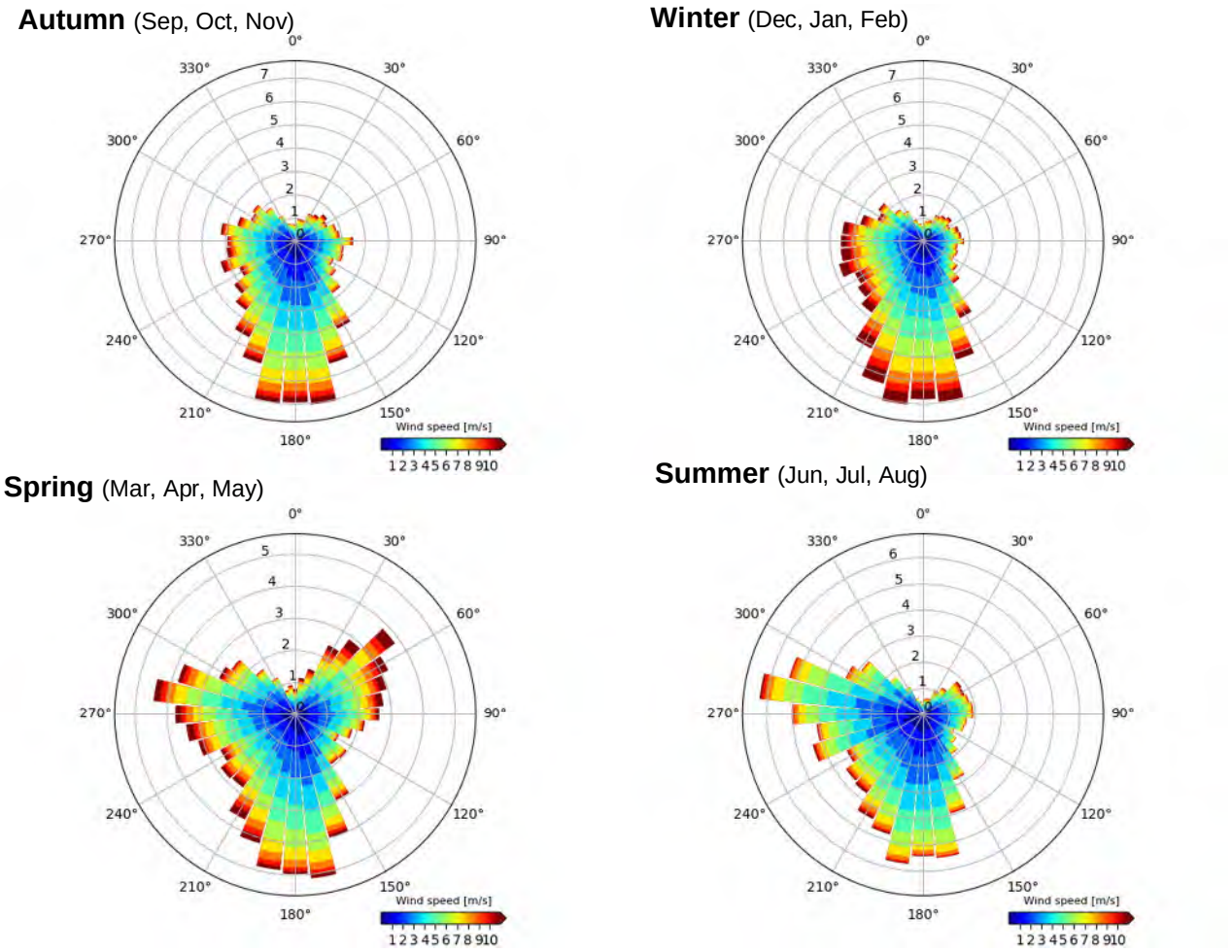


Figure 2-3 - Wind roses for each season.

2.4.4. Linear regression methods were used to fit the data to a Weibull probability distribution, i.e.:

$$P(U) = pe^{-\left(\frac{U}{c}\right)^{k}}$$

where the p, c and k coefficients are the probability of the wind direction occurring, the dispersion parameter and the shape parameter respectively.

2.4.5. To account for the differences in terrain surrounding the weather station at Manchester airport and the project site, adjustments were made using the wind model proposed by ESDU, an engineering advisory organisation based in the UK (ESDU 2010)[3]. This method assigns transposition factors to the *c* term in the Weibull distribution of the data at the meteorological site, based on upwind aerodynamic roughness of the terrain. The weather centre data was initially transposed to open country terrain and subsequently transposed to a reference height of 160m at the site of the proposed development, accounting for upwind terrain and topographical features. This terrain analysis was based on the CORINE Land Cover (CLC) dataset[5] which is shown in Figure 2-4. This resulted in the transposition factors shown in Table 2.5.

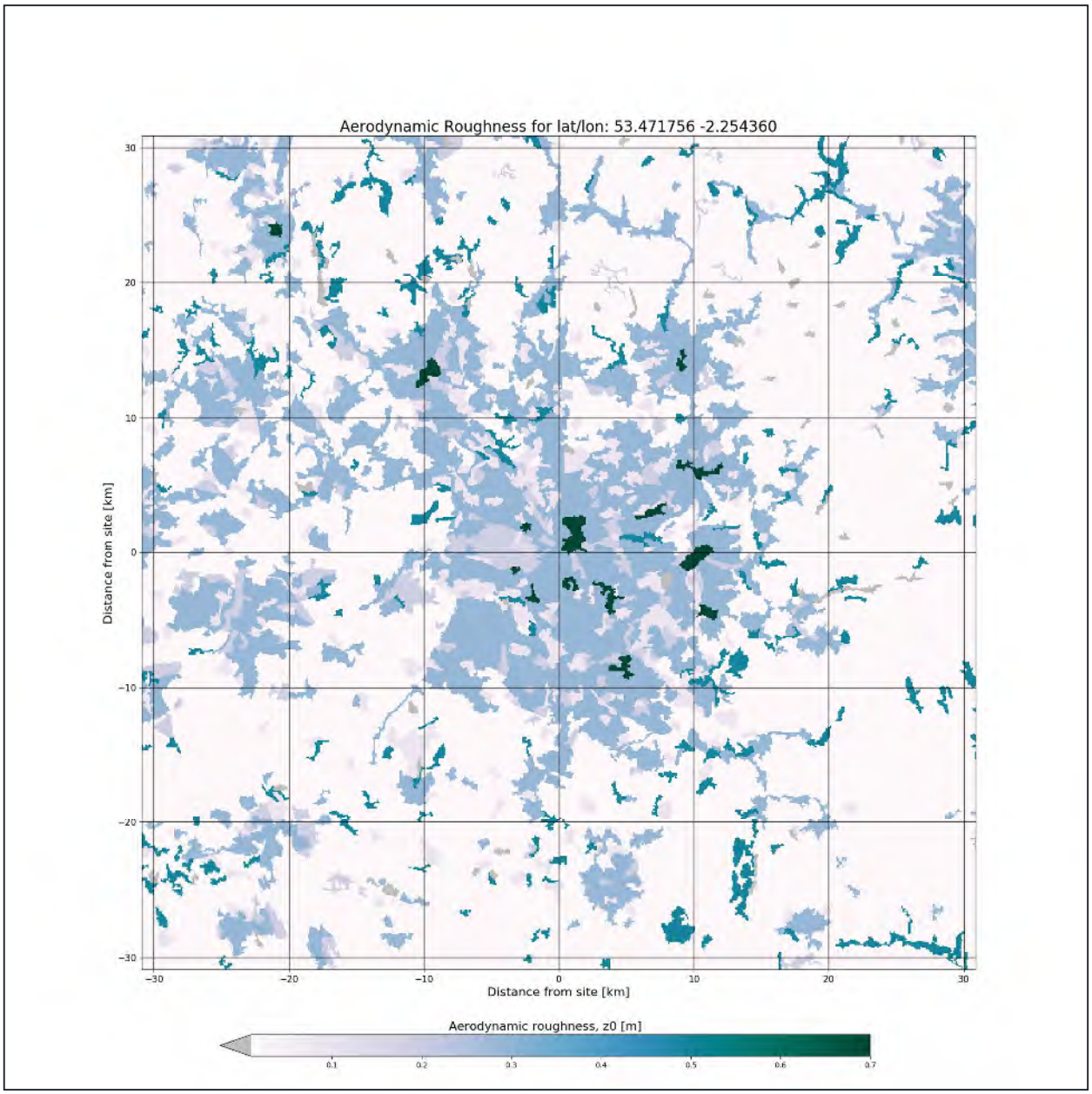


Figure 2-4 - Categorisation of the terrain surrounding the site.

Table 2-5 - Transposition factors from 10m open country to 160m reference height at the project site.

0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
1.362	1.333	1.334	1.345	1.341	1.338	1.355	1.343	1.376	1.381	1.352	1.360

2.4.6. The aerodynamic effect from all wind directions must be accounted for and, as the weather data has an azimuthal resolution of 10°, 36 simulated directions will provide the best possible resolution. However, this can be computationally expensive and infrequent wind directions will not contribute significantly to the final outcome. Therefore, some adjacent infrequent directions have been grouped together such that each simulated direction has a similar frequency of occurrence. The grouping

methodology is such that the frequency of grouped wind directions should generally not exceed that of the most frequent (prevailing) wind directions.

2.4.7. In this case, 22 wind directions were explicitly simulated (see Table 2-6).

Table 2-6 - Wind directions simulated.

Simulated direction [°]	Bins included [°]	Combined frequency [%]
0	350,0,10	2.3
30	20,30,40	4.3
55	50,60	4.2
75	70,80	4.1
95	90,100	4.1
120	110,120,130	5.2
145	140,150	5.6
160	160	4.7
170	170	6.2
180	180	6.0
190	190	6.2
200	200	5.2
210	210	4.5
220	220	3.5
235	230,240	6.2
250	250	3.7
260	260	3.5
270	270	3.8
280	280	4.4
290	290	3.6
305	300,310	5.0
330	320,330,340	3.9

2.5 SIMULATION DETAILS AND ASSUMPTIONS

2.5.1. A CFD numerical simulation has been performed for each of the directions shown in Table 2-6. Relative wind speeds were sampled at a plane 1.5m from the ground. These values were then combined with the weather data shown in 2.4 and compared against criteria discussed in section 2.3.

2.5.2. Each simulation uses numerical methods to solve the governing equations of fluid mechanics around the site of interest. The site of interest in this case is the geometry discussed in section 2.2, surrounded by a volume which extends 3km in the horizontal directions and 700m in the vertical direction. The CFD method employed requires this volume to be split into smaller volumes or 'cells'. These cells are nominally hexahedral and reduce in size from approximately 25m in the far field to 0.1m near the building in order to sufficiently resolve the fluid flow. Thin prismatic layers of cells were added to the ground and buildings to resolve the large gradients in the flow near the solid obstructions. In this case, the total number of cells was ~48 million.

2.5.3. As time-averaged results are of interest, the equations in the model have been time-averaged using Reynolds averaging to produce the Reynolds-Averaged Navier-Stokes (RANS) equations. The realizable version of the $k-\epsilon$ model (Shih et. al., 1995)[4] has been used to describe the statistical effect of turbulence by solving transport equations for the turbulent kinetic energy (k) and turbulent dissipation rate (ϵ).

2.5.4. The velocity magnitude output from the CFD is a mean velocity defined as:

$$\bar{U} = (\bar{u}^2 + \bar{v}^2 + \bar{w}^2)^{\frac{1}{2}}$$

where the overbar represents a time-averaged quantity and u, v, w are the velocity components in the x, y, z directions, respectively. However, a pedestrian's perception to the wind does not depend on direction; a wind from any direction is equally as uncomfortable. Therefore, the velocity of interest is actually:

$$\bar{U} = \overline{(u^2 + v^2 + w^2)^{\frac{1}{2}}}$$

these scalar values are different because $u = \bar{u} + u'$ and $\overline{u'}^2 = 0$ but $\overline{u'^2} \neq 0$, where u' is the fluctuating part of the instantaneous velocity, u. Using the fact that $k = \frac{1}{2}\left(\overline{u'^2} + \overline{v'^2} + \overline{u'^2}\right)$, the velocity used of interest from the RANS equations is:

$$\bar{U}_{scalar} = (\bar{U}^2 + 2k)^{\frac{1}{2}}$$

2.5.5. A non-slip condition was applied to the ground and buildings. Buildings and ground within the 500m radius had a rough wall function with an assigned roughness of $z_0 = 0.02m$; the far-field (>500m radius) ground and heavily forested areas had a rough wall function with roughness heights depending on their terrain classification (ESDU). The outlet had a zero-gradient boundary condition, side and top walls had free slip conditions. A logarithmic velocity profile was applied to the inlet whereby the velocity varies with height through:

$$U(z) = \frac{u_\tau}{\kappa} \ln\left(\frac{z + z_0}{z_0}\right)$$

where:

$$u_\tau = \frac{\kappa U_{ref}}{\ln\left(\frac{z_{ref} + z_0}{z_0}\right)}$$

and $\kappa = 0.41$ is the Von Karman constant, z is the height above the ground, $z_{ref} = 160m$, z_0 is the upstream roughness which varies by direction and $U_{ref} = 10m/s$.

2.5.6. The SIMPLE algorithm as implemented in OpenFOAM (Engys version HELYX Core-3.0.0) was used to iteratively solve the equations. The solution was considered to be converged when the residuals (i.e. the relative change from one iteration to the next) were 10^{-5} for momentum and 10^{-4} for pressure.

3 RESULTS – SCENARIO 1: BASELINE

3.1 INTRODUCTION

This section analyses the results of the existing site within existing surrounds, including under-construction developments.

3.1.1. The existing landscaping around the Deansgate Square and River Street developments have been included in the computational model. No other existing landscaping has been included.

3.1.2. Trees and other landscaping furniture were treated as porous regions in the CFD model. For trees, the momentum loss in the transport equations is modelled through the inertial term in the Darcy-Forchheimer law for porous media which has the form $\Delta P = C\ U^2$, where ΔP is the pressure drop across the volume of the tree, U is the air velocity and C is the inertial term, which can be related to a drag coefficient for various tree types. Drag coefficients, obtained experimentally, were chosen for various tree species from *Bitog et al (2011)*[6].

SAFETY CRITERIA ANALYSIS

3.1.3. Figure 3-1 shows that for the existing site within the context of existing surrounds ground level wind conditions are rated as safe for all users.

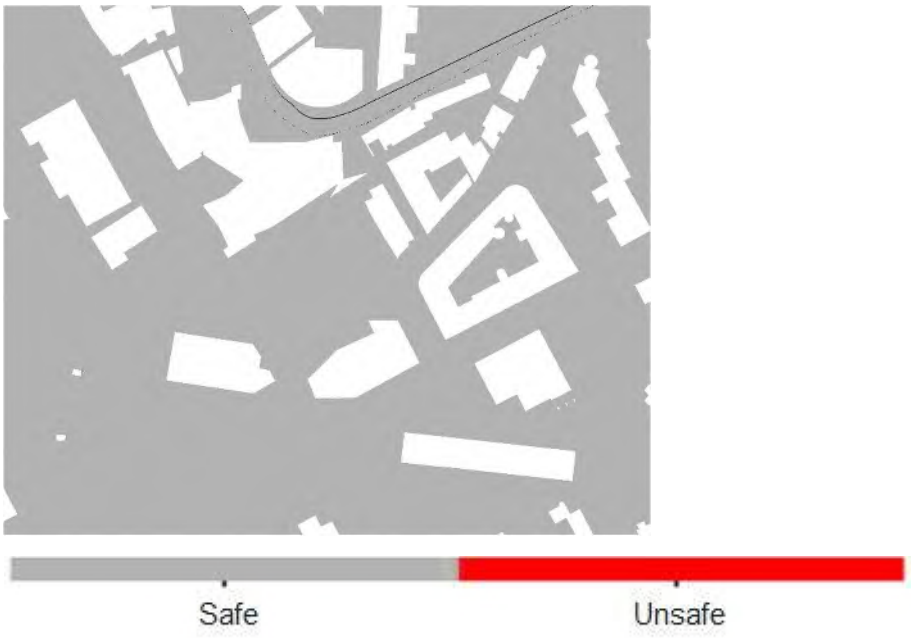


Figure 3-1 - Contours of safety criteria for Scenario 1.

COMFORT CRITERIA ANALYSIS

3.1.4. Figure 3-2 and Figure 3-3 show contours of comfort criteria on a plane 1.5m above the ground for the worst-case season (winter) and summer seasons respectively for Scenario 1.

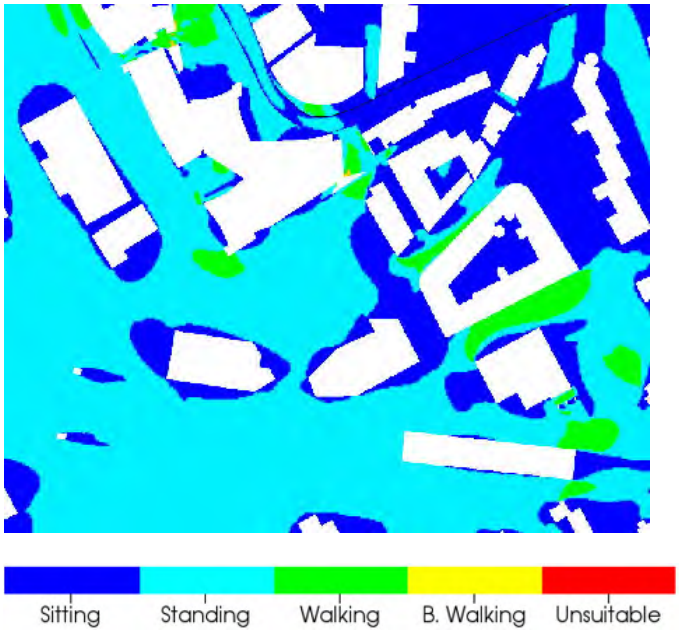


Figure 3-2 - Contours of comfort criteria for winter for Scenario 1.

3.1.5. Figure 3-2 shows that wind conditions within and around the existing site rate as suitable for walking, standing and sitting during winter.

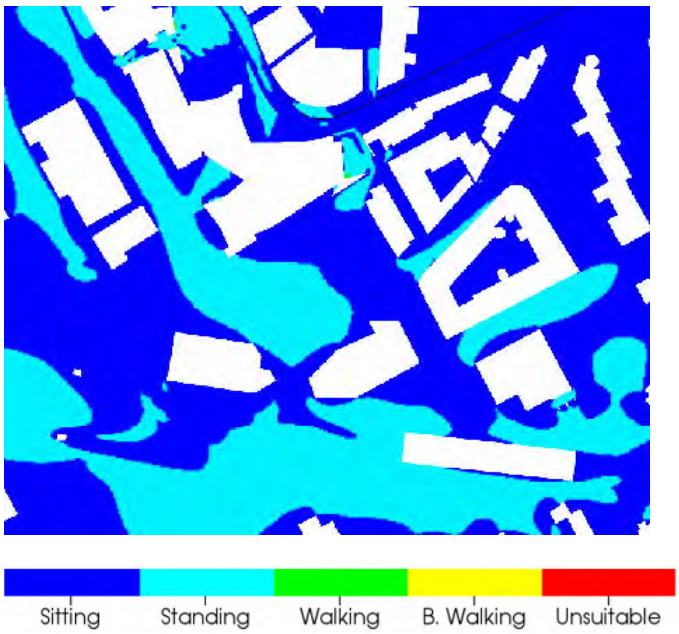


Figure 3-3 - Contours of comfort criteria for summer for Scenario 1.

3.1.6. Figure 3-3 shows that wind conditions within and around the existing site rate as suitable for standing and sitting during summer.

4 RESULTS – SCENARIO 2: PHASE A IN EXISTING SURROUNDS (INC. PROPOSED LANDSCAPING)

4.1 INTRODUCTION

This section analyses the results of Phase A in existing surrounds and its associated landscaping.

4.1.1. The existing landscaping around the Deansgate Square and River Street developments have been included in the computational model. No other existing landscaping has been included.

4.1.2. The proposed landscaping scheme for the 'Plot F' development (taken from '*Z1-TPM-G710-PL-XX-3851 101 FINAL DRAFT*') was included in the computational model. The landscaping strategy included 5 × 1.5m wide 2.5m tall 50% porous screens – the position and design of which were informed by this study (shown in blue in Figure 4-1).

4.1.3. Trees and other landscaping furniture were treated as porous regions in the CFD model. For trees, the momentum loss in the transport equations is modelled through the inertial term in the Darcy-Forchheimer law for porous media which has the form $\Delta P = C\,U^2$, where ΔP is the pressure drop across the volume of the tree, U is the air velocity and C is the inertial term, which can be related to a drag coefficient for various tree types. Drag coefficients, obtained experimentally, were chosen for various tree species from *Bitog et al (2011)*[6].

4.1.4. Mitigation measures were developed to create safe and comfortable wind conditions for pedestrians at ground level. The following mitigation measure for Phase A (shown in Figure 4-1) was also included in the computational model and should be implemented in the final landscaping design:

- *1 × 1.5m tall hedges near the south corner of F2.*



Figure 4-1 - Developed mitigation measures overlaid onto Plot F propose landscaping plan.

SAFETY CRITERIA ANALYSIS

4.1.5. Figure 4-2 shows that the introduction of the proposed development and landscaping for Scenario 2 results in ground level wind conditions that are rated as safe for all users, provided that the proposed landscaping scheme and wind mitigation measures shown in Figure 4-1 are implemented.

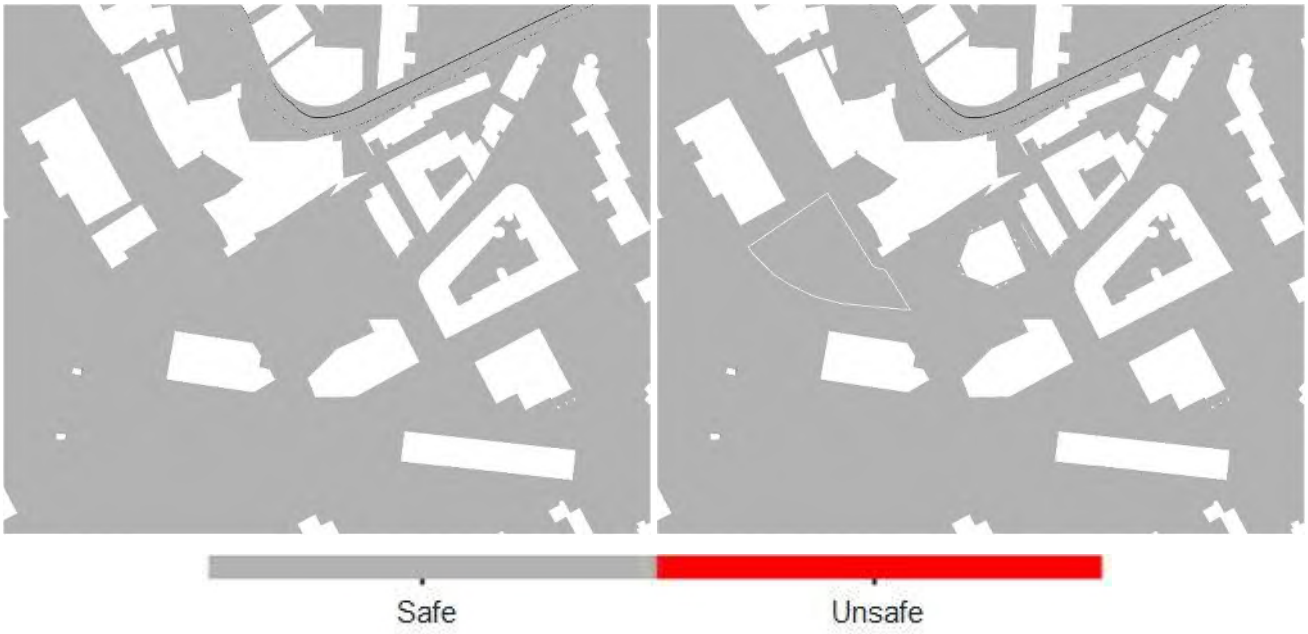


Figure 4-2 - Contours of safety criteria (left: Scenario 1, right: Scenario 2).

COMFORT CRITERIA ANALYSIS

4.1.6. Figure 4-3 and Figure 4-4 show contours of comfort criteria on a plane 1.5m above the ground for the worst-case season (winter) and summer seasons respectively, directly compared against the baseline conditions (Scenario 1).

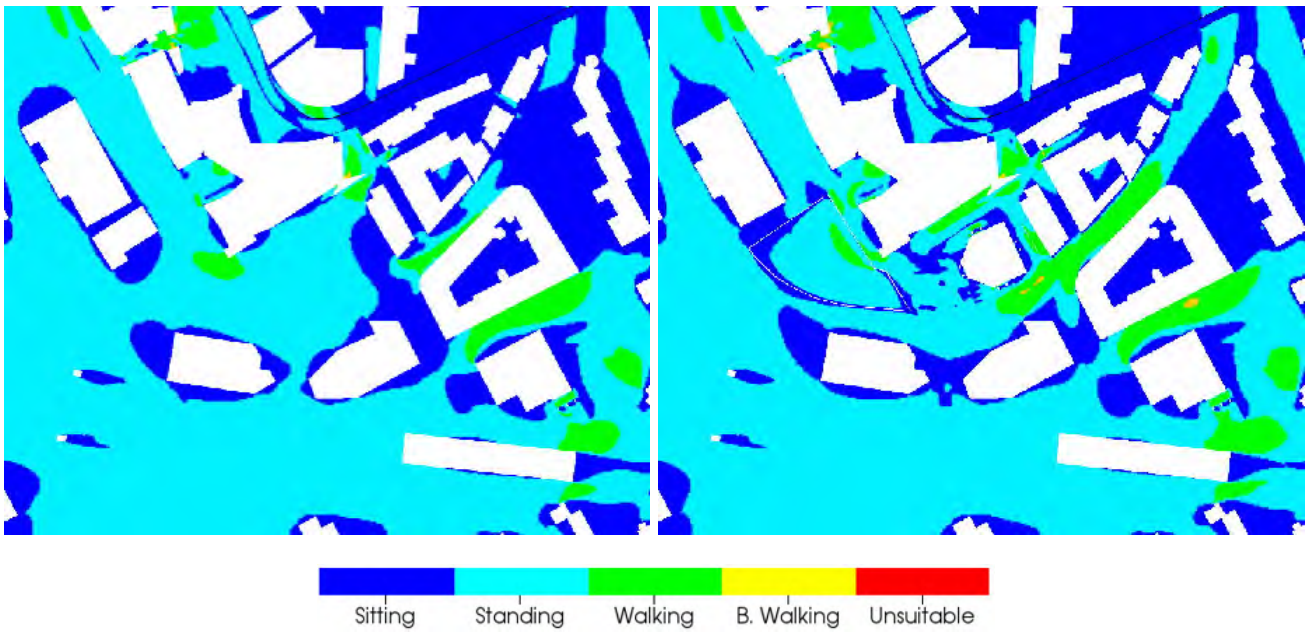


Figure 4-3 - Contours of comfort criteria for winter (left: Scenario 1, right: Scenario 2).

4.1.7. Figure 4-3 shows that, with the introduction of the proposed development (Scenario 2), wind conditions within the site rate as suitable for walking, standing and sitting during winter.

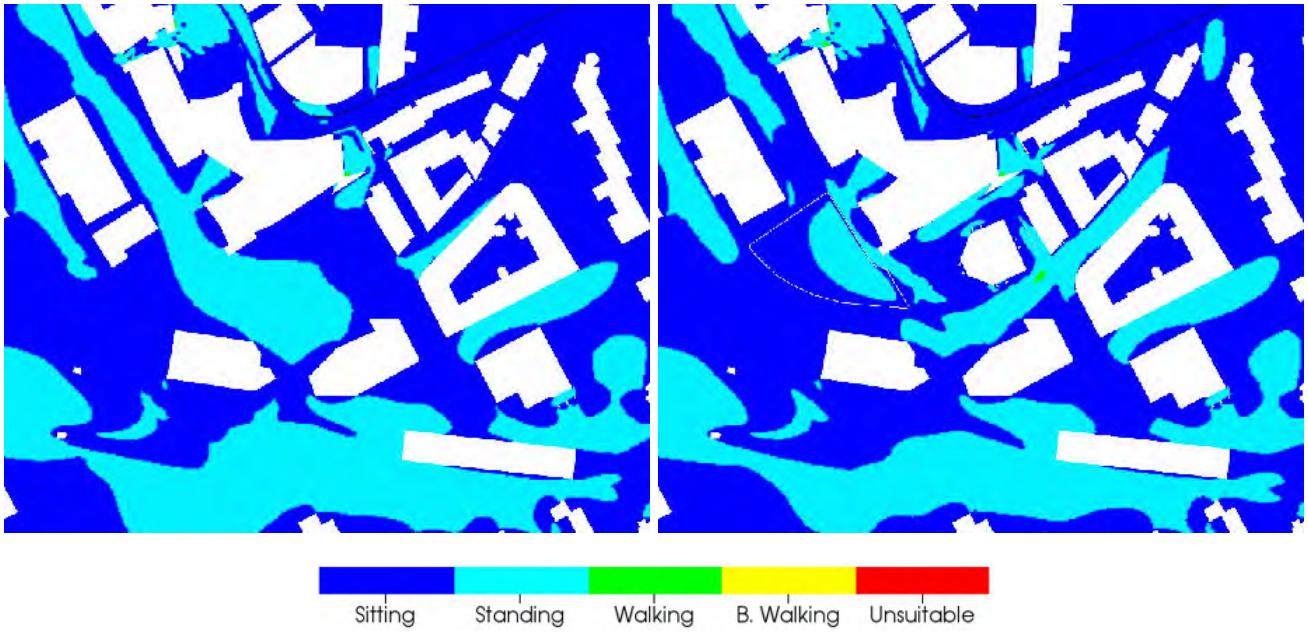


Figure 4-4 - Contours of comfort criteria for summer (left: Scenario 1, right: Scenario 2).

4.1.8. Figure 4-4 shows that, with the introduction of the proposed development (Scenario 2), wind conditions within the site rate as suitable for standing and sitting during summer.

5 RESULTS – SCENARIO 3: PHASE A IN CUMULATIVE SURROUNDS (INC. PROPOSED LANDSCAPING)

5.1 INTRODUCTION

This section analyses the results of Phase A in cumulative surrounds and its associated landscaping.

5.1.1. The existing landscaping around the Deansgate Square, River Street and Plot G developments have been included in the computational model. No other existing landscaping has been included.

5.1.2. The proposed landscaping scheme for the 'Plot F' development (taken from '*Z1-TPM-G710-PL-XX-3851 101 FINAL DRAFT*') was included in the computational model. The landscaping strategy included 5 × 1.5m wide 2.5m tall 50% porous screens – the position and design of which were informed by this study (shown in blue in Figure 5-1).

5.1.3. Trees and other landscaping furniture were treated as porous regions in the CFD model. For trees, the momentum loss in the transport equations is modelled through the inertial term in the Darcy-Forchheimer law for porous media which has the form $\Delta P = C\,U^2$, where ΔP is the pressure drop across the volume of the tree, U is the air velocity and C is the inertial term, which can be related to a drag coefficient for various tree types. Drag coefficients, obtained experimentally, were chosen for various tree species from *Bitog et al (2011)*[6].

5.1.4. Mitigation measures were developed to create safe and comfortable wind conditions for pedestrians at ground level. The following mitigation measure for Phase A (shown in Figure 5-1) was also included in the computational model and should be implemented in the final landscaping design:

- *1 × 1.5m tall hedges near the south corner of F2.*



Figure 5-1 - Developed mitigation measures overlaid onto Plot F proposed landscaping plan.

SAFETY CRITERIA ANALYSIS

5.1.5. Figure 5-2 shows that the introduction of the proposed development and cumulative surrounds results in ground level wind conditions that are rated as safe for all users, provided that the proposed landscaping scheme and wind mitigation measures shown in Figure 5-1 are implemented.

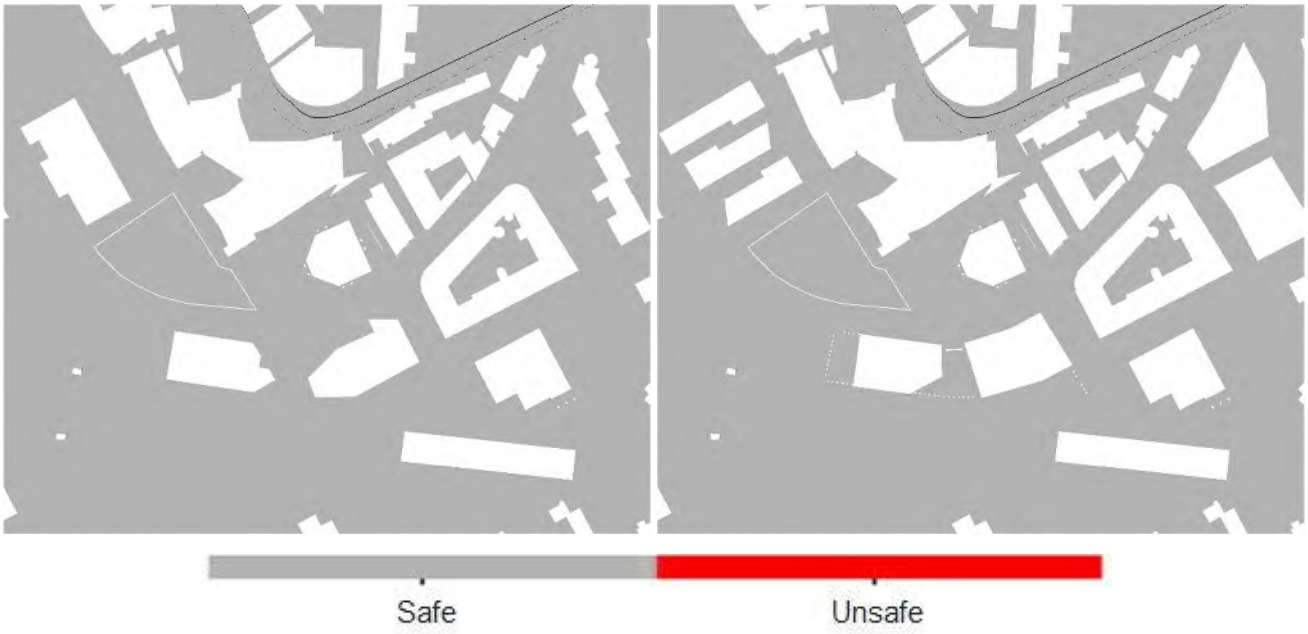


Figure 5-2 - Contours of safety criteria (left: Scenario 2, right: Scenario 3).

COMFORT CRITERIA ANALYSIS

5.1.6. Figure 5-3 and Figure 5-4 show contours of comfort criteria on a plane 1.5m above the ground for the worst-case season (winter) and summer seasons respectively, directly compared against the conditions for Scenario 2 (existing surrounds).

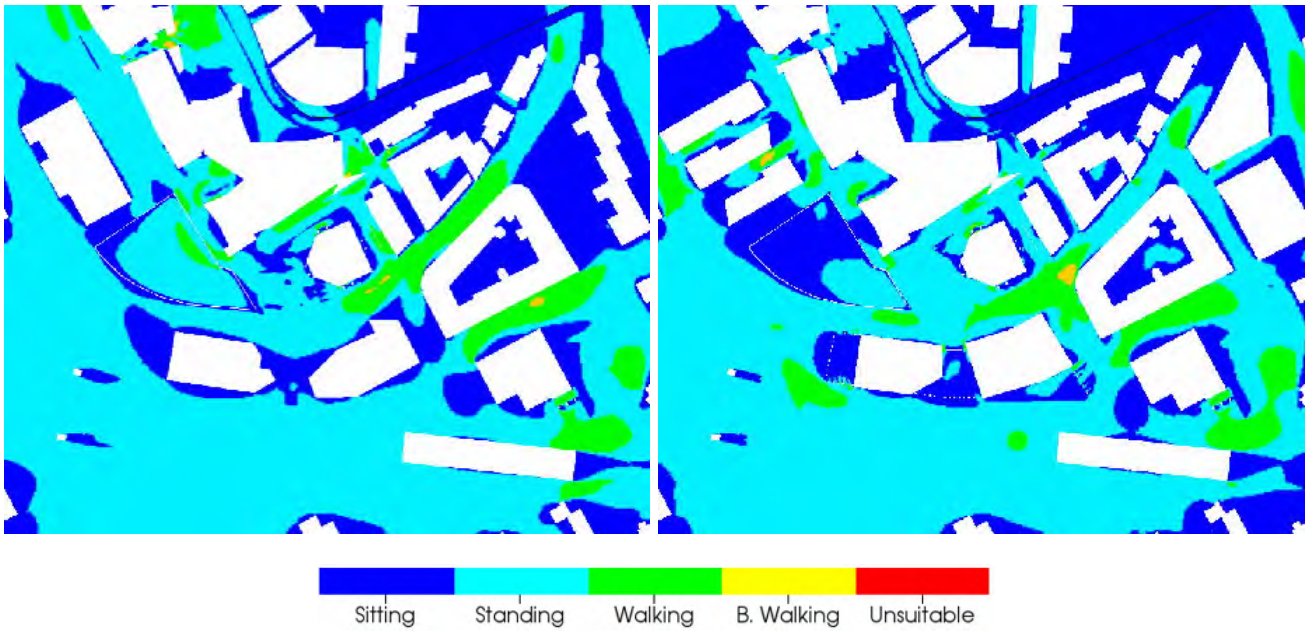


Figure 5-3 - Contours of comfort criteria for winter (left: Scenario 2, right: Scenario 3).

5.1.7. Figure 5-3 shows that, with the introduction of the proposed development and cumulative surrounds (Scenario 3), wind conditions within the site rate as suitable for walking, standing and sitting during winter.

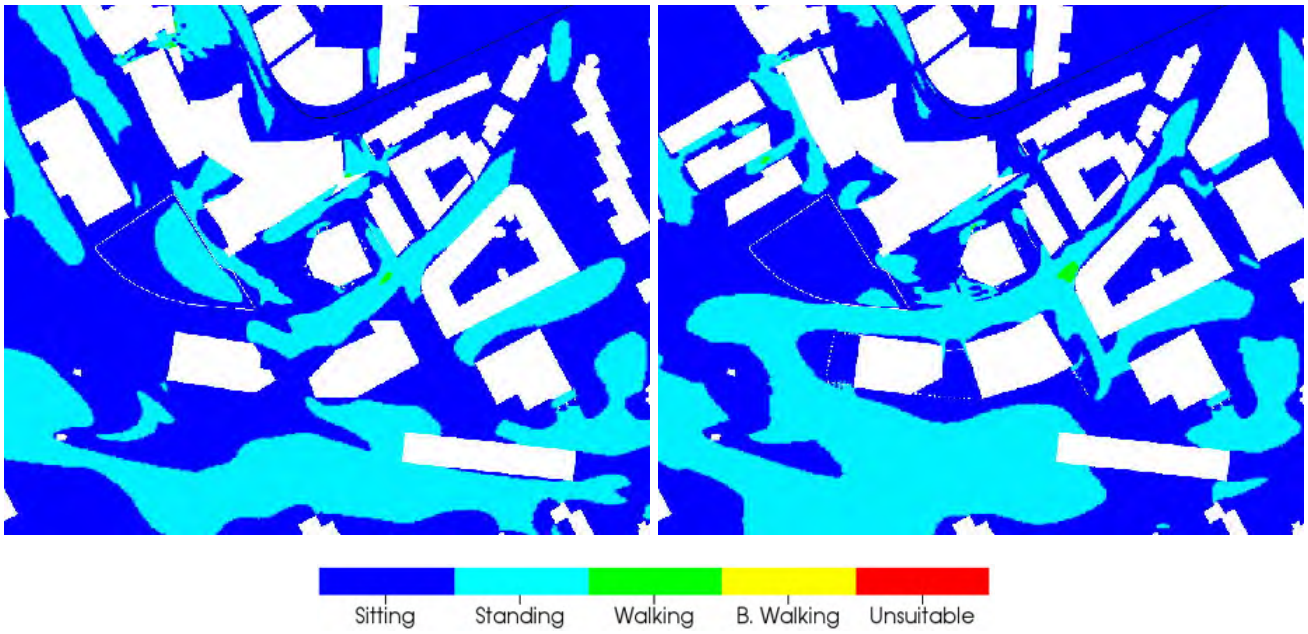


Figure 5-4 - Contours of comfort criteria for summer (left: Scenario 2, right: Scenario 3).

5.1.8. Figure 5-4 shows that, with the introduction of the proposed development and cumulative surrounds (Scenario 3), wind conditions within the site rate as suitable for standing and sitting during summer.

6 RESULTS – SCENARIO 4: PHASE A+B IN EXISTING SURROUNDS (INC. PROPOSED LANDSCAPING)

6.1 INTRODUCTION

This section analyses the results of Phase A and Phase B in existing surrounds.

6.1.1. The existing landscaping around the Deansgate Square, River Street and Plot G developments have been included in the computational model. No other existing landscaping has been included.

6.1.2. The proposed landscaping scheme for the 'Plot F' development (taken from '*Z1-TPM-G710-PL-XX-3851 101 FINAL DRAFT*') was included in the computational model. The landscaping strategy included 5 × 1.5m wide 2.5m tall 50% porous screens – the position and design of which were informed by this study (shown in blue in Figure 6-1).

6.1.3. Trees and other landscaping furniture were treated as porous regions in the CFD model. For trees, the momentum loss in the transport equations is modelled through the inertial term in the Darcy-Forchheimer law for porous media which has the form $\Delta P = C\,U^2$, where ΔP is the pressure drop across the volume of the tree, U is the air velocity and C is the inertial term, which can be related to a drag coefficient for various tree types. Drag coefficients, obtained experimentally, were chosen for various tree species from *Bitog et al (2011)*[6].

6.1.4. Mitigation measures were developed to create safe and comfortable wind conditions for pedestrians at ground level. The following mitigation measures for Phase A+B (shown in Figure 4-1) were also included in the computational model and should be implemented in the final landscaping design:

- *1 × 1.5m tall hedges near the south corner of F2.*
- *3 × 1.5m wide, 2.5m tall 50% porous screens close to the eastern corner of F1.*
- *2 × 1.5m tall hedges either side of the main entrance of F1.*



Figure 6-1 - Developed mitigation measures overlaid onto Plot F proposed landscaping plan.

SAFETY CRITERIA ANALYSIS

6.1.5. Figure 6-2 shows that the introduction of Phase A and B within existing surrounds (Scenario 4) results in ground level wind conditions that are rated as safe for all users, provided that the proposed landscaping scheme and wind mitigation measures shown in Figure 6-1 are implemented.

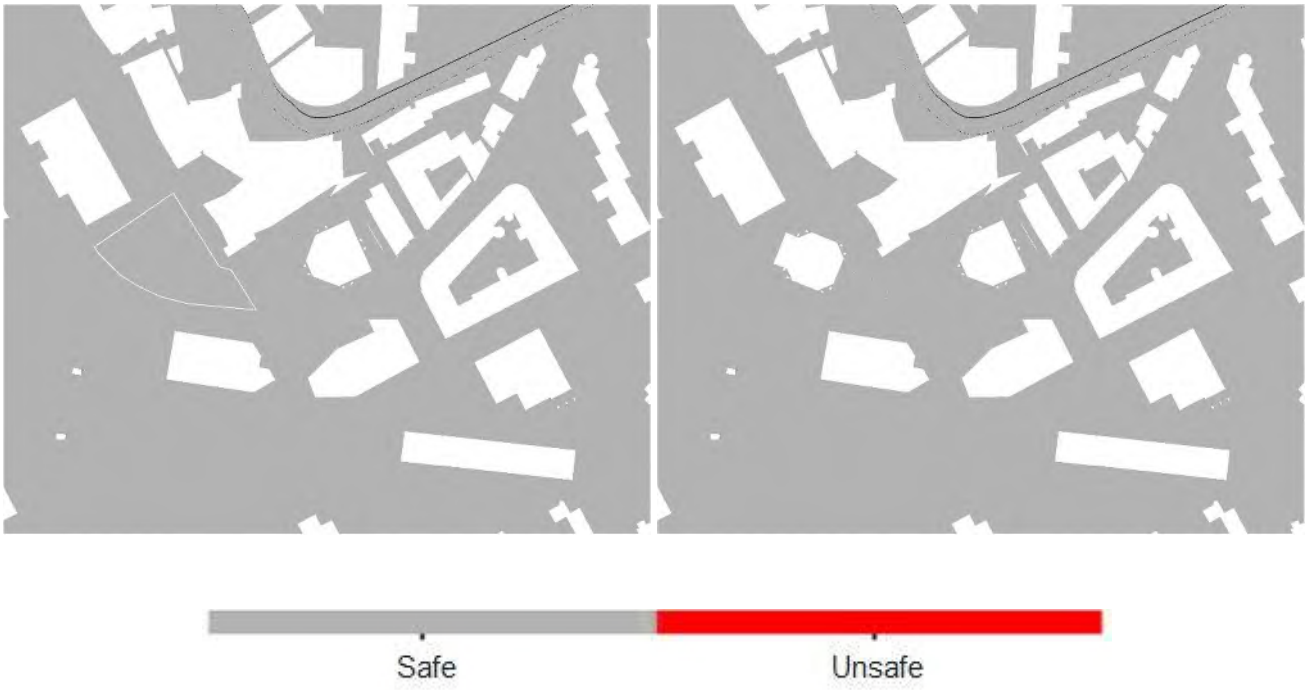


Figure 6-2 - Contours of safety criteria (left: Scenario 2, right: Scenario 4).

COMFORT CRITERIA ANALYSIS

6.1.6. Figure 6-3 and Figure 6-4 show contours of comfort criteria on a plane 1.5m above the ground for the worst-case season (winter) and summer seasons respectively, directly compared against the Scenario 2.

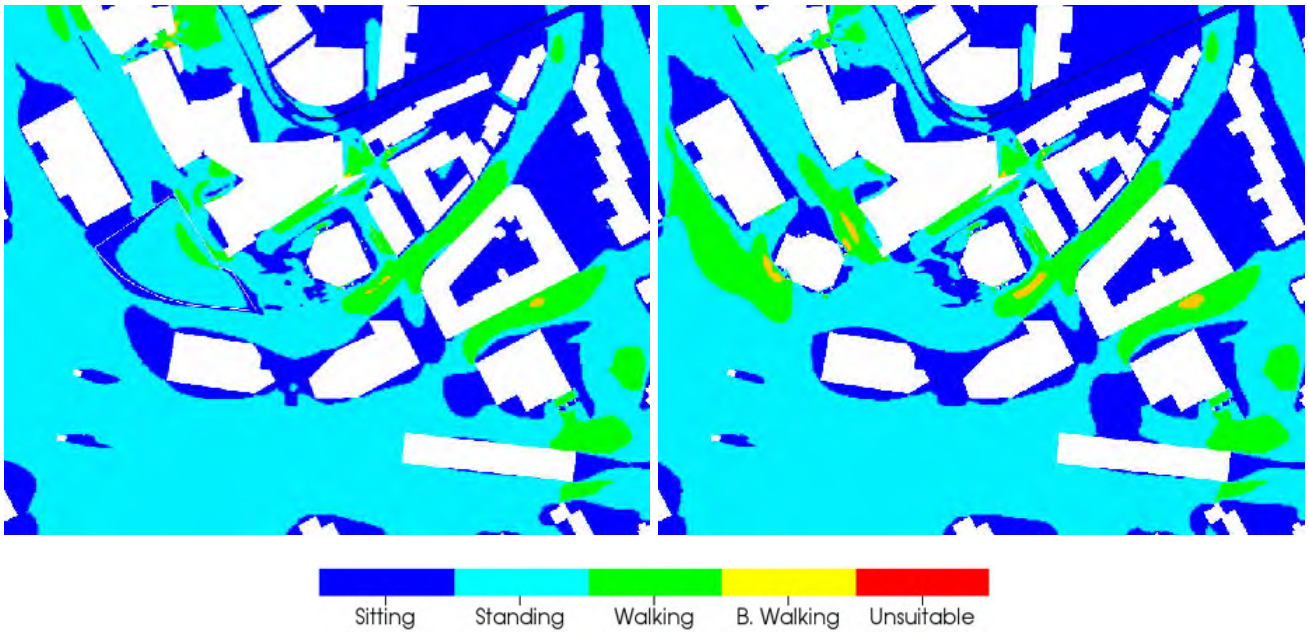


Figure 6-3 - Contours of comfort criteria for winter (left: Scenario 2, right: Scenario 4).

6.1.7. Figure 6-3 shows that, with the introduction of Phase A and B within existing surrounds (Scenario 4), wind conditions within the site rate as suitable for walking, standing and sitting during winter.

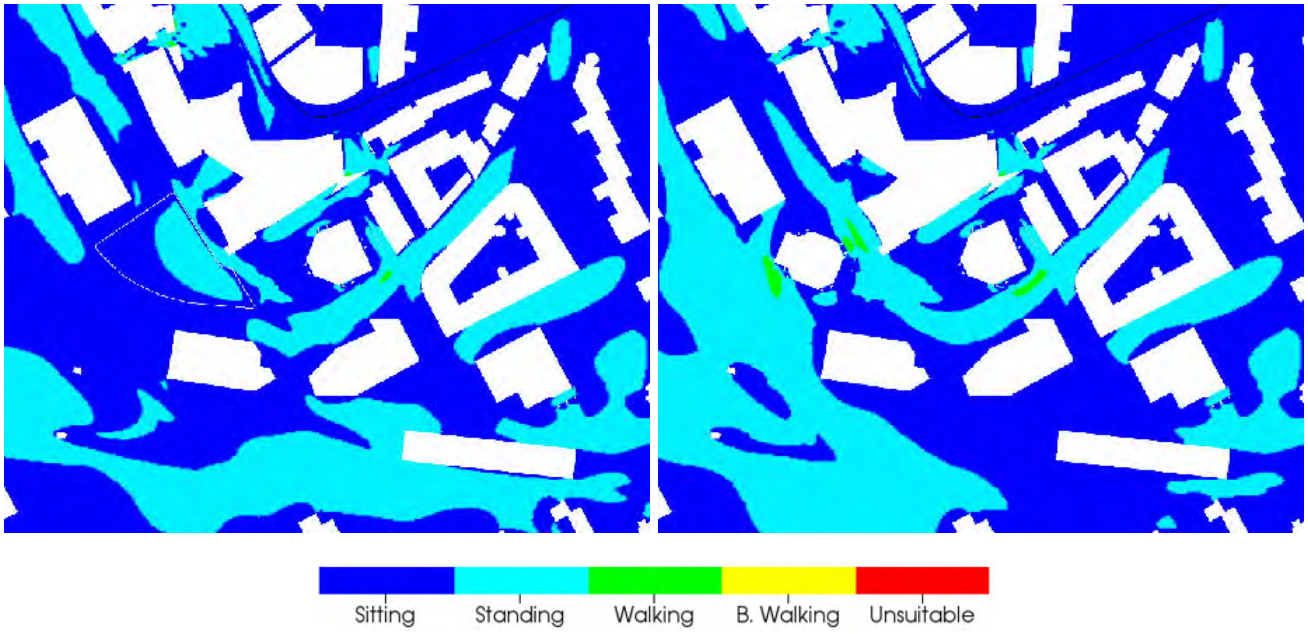


Figure 6-4 - Contours of comfort criteria for summer (left: Scenario 2, right: Scenario 4).

6.1.8. Figure 6-4 shows that, with the introduction Phase A and B within existing surrounds (Scenario 4), wind conditions within the site rate as suitable for standing and sitting during summer.

7 RESULTS – SCENARIO 5: PHASE A+B WITHIN CUMULATIVE SURROUNDS (INC. PROPOSED LANDSCAPING)

7.1 INTRODUCTION

This section analyses the results of Phase A and Phase B in cumulative surrounds and its associated landscaping.

7.1.1. The existing landscaping around the Deansgate Square, River Street and Plot G developments have been included in the computational model. No other existing landscaping has been included.

7.1.2. The proposed landscaping scheme for the 'Plot F' development (taken from '*Z1-TPM-G710-PL-XX-3851 101 FINAL DRAFT*') was included in the computational model. The landscaping strategy included 5 × 1.5m wide 2.5m tall 50% porous screens – the position and design of which were informed by this study (shown in blue in Figure 7-1).

7.1.3. Trees and other landscaping furniture were treated as porous regions in the CFD model. For trees, the momentum loss in the transport equations is modelled through the inertial term in the Darcy-Forchheimer law for porous media which has the form $\Delta P = C\,U^2$, where ΔP is the pressure drop across the volume of the tree, U is the air velocity and C is the inertial term, which can be related to a drag coefficient for various tree types. Drag coefficients, obtained experimentally, were chosen for various tree species from *Bitog et al (2011)*[6].

7.1.4. Mitigation measures were developed to create safe and comfortable wind conditions for pedestrians at ground level. The following mitigation measures for Phase A+B (shown in Figure 4-1) were also included in the computational model and should be implemented in the final landscaping design:

- *1 × 1.5m tall hedges near the south corner of F2.*
- *3 × 1.5m wide, 2.5m tall 50% porous screens close to the eastern corner of F1.*
- *2 × 1.5m tall hedges either side of the main entrance of F1.*



Figure 7-1 - Developed mitigation measures overlaid onto Plot F proposed landscaping plan.

SAFETY CRITERIA ANALYSIS

7.1.5. Figure 7-2 shows that the introduction of Phase A and B within cumulative surrounds (Scenario 5) results in ground level wind conditions that are rated as safe for all users, provided that the proposed landscaping scheme and wind mitigation measures shown in Figure 7-1 are implemented.

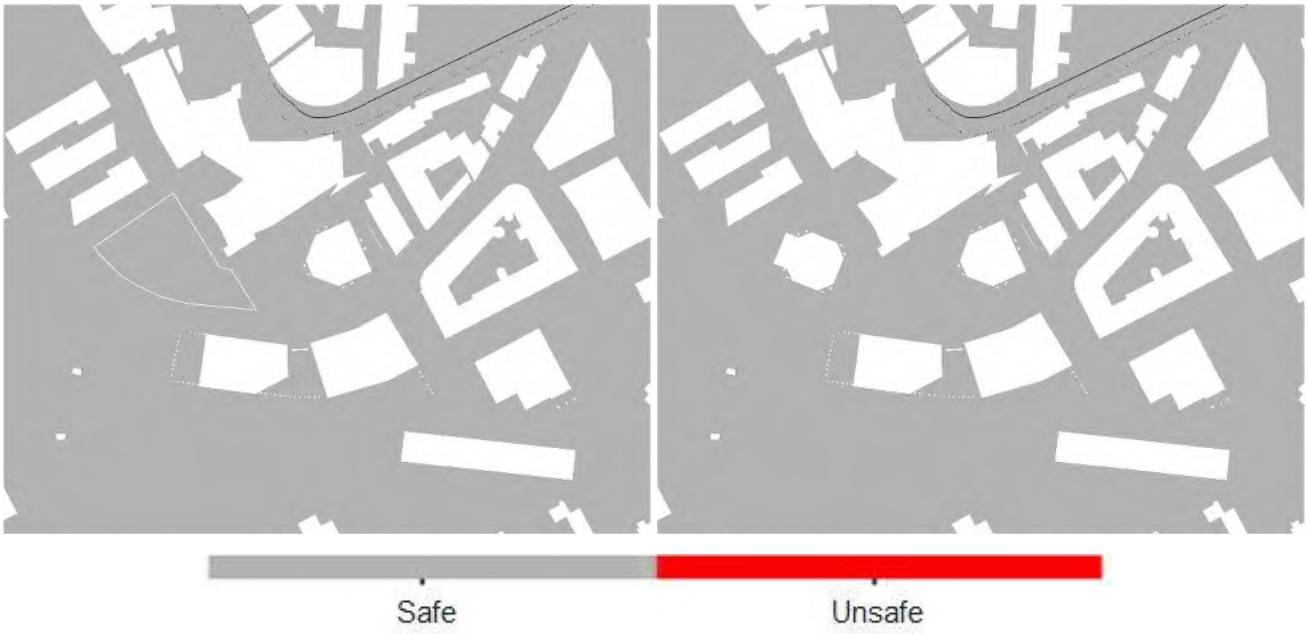


Figure 7-2 - Contours of safety criteria (left: Scenario 3, right: Scenario 5).

COMFORT CRITERIA ANALYSIS

7.1.6. Figure 6-3 and Figure 6-4 show contours of comfort criteria on a plane 1.5m above the ground for the worst-case season (winter) and summer seasons respectively, directly compared against the Scenario 3.

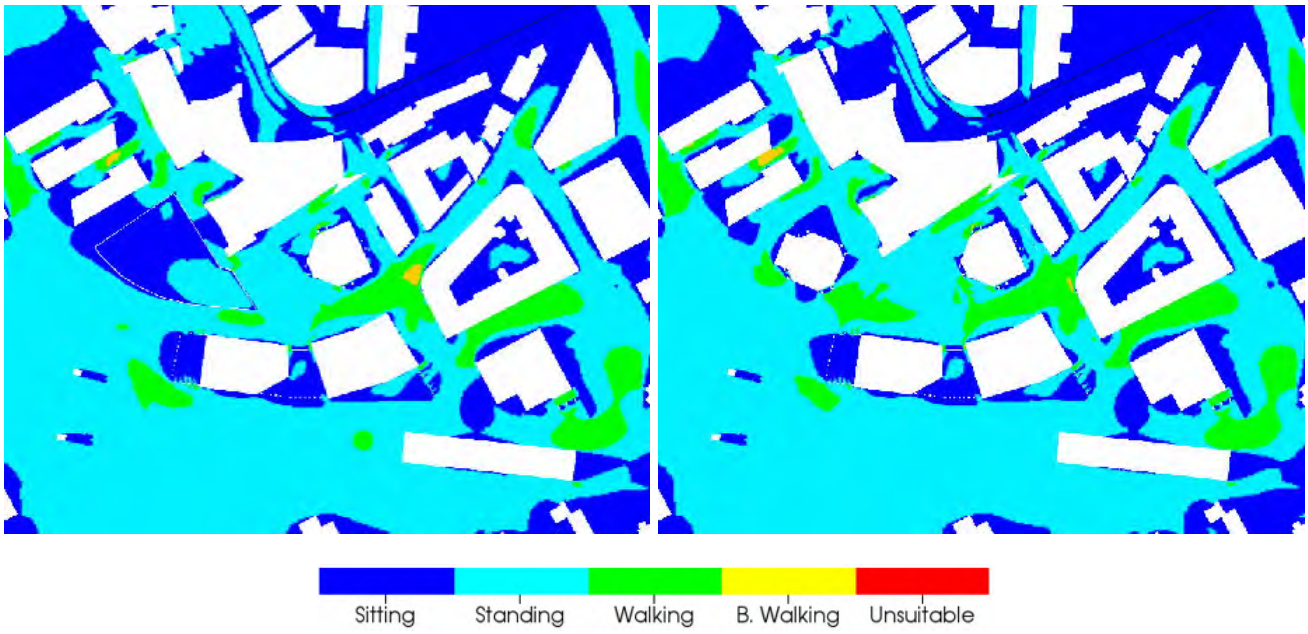


Figure 7-3 - Contours of comfort criteria for winter (left: Scenario 3, right: Scenario 5).

7.1.7. Figure 6-3 shows that, with the introduction of Phase A and B within cumulative surrounds (Scenario 5), wind conditions within the site rate as suitable for walking, standing and sitting during winter.

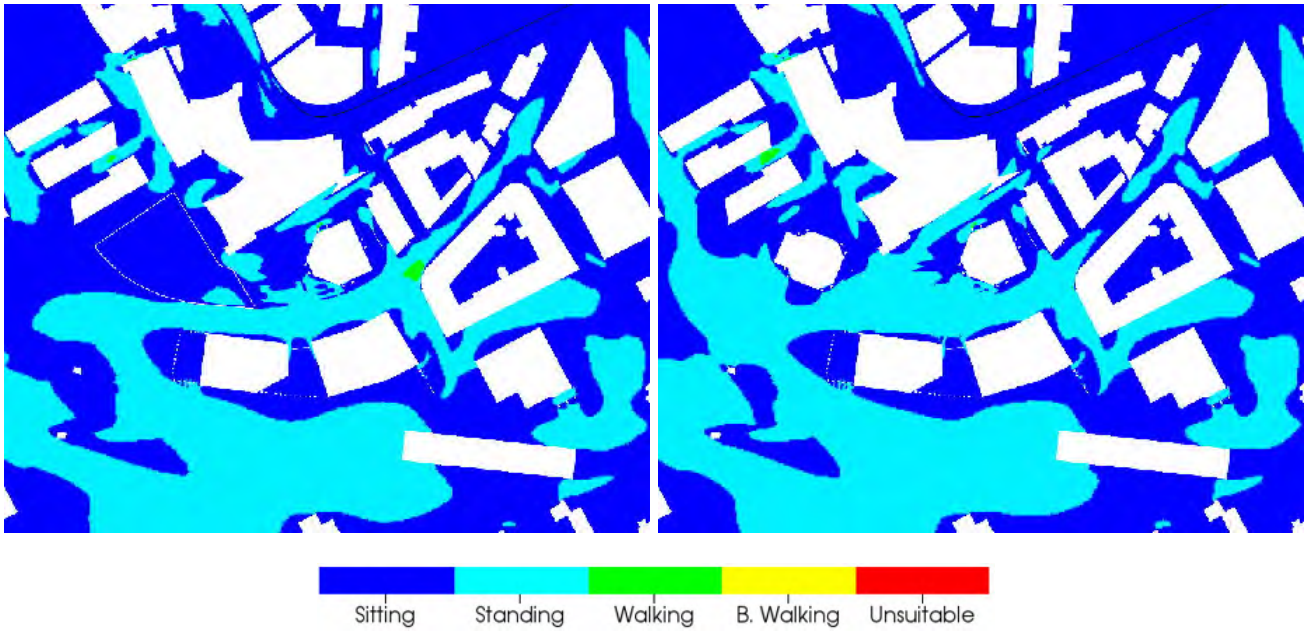


Figure 7-4 - Contours of comfort criteria for summer (left: Scenario 3, right: Scenario 5).

7.1.8. Figure 6-4 shows that, with the introduction of Phase A and B within cumulative surrounds (Scenario 5), wind conditions within the site rate as suitable for standing and sitting during summer.

8 CONCLUSIONS

An analysis of the wind conditions around the proposed Plot F Great Jackson Street development in Manchester has been performed. The study made use of CFD simulations conducted over a range of wind directions which were combined with long-term wind statistics to provide a statistical representation of the expected wind conditions. A total of five (5) surrounds configurations (baseline included) were studied. All assessments included the existing landscaping on the Deansgate Square and River Street developments. Where relevant, the proposed landscaping for the proposed Plot F development was also included.

Wind conditions at street level, with the inclusion of the proposed landscaping scheme and the purposely designed wind mitigation measures, are safe for all users across all scenarios.

Following the completion of the CFD-based wind microclimate assessment presented within this report, a design change was made to the podium for Tower F1. The original massing featured a rectangular block parallel to the west face of the building. The updated design extends the original rectangular block and introduces an offset angle. Figure 8.1 illustrates the original massing (left) next to the updated geometry (right), with the modification shown in red. It should be noted that the overall height of the podium remains unchanged.

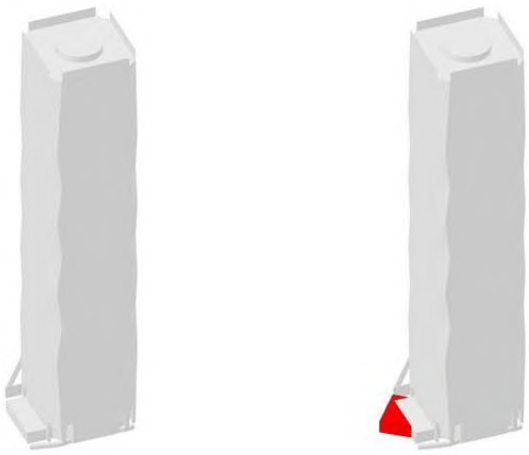


Figure 8-1 - Illustration of the Change to the Podium of F1.

The impact of the design change illustrated in Figure 8.1 on the wind microclimate conditions in the immediate vicinity of Tower F1 is considered to be relatively localised and negligible. Therefore, the findings of this report remain valid.

REFERENCES

1. Eurocode 1 – Actions on Structures, Part 1-4: General Actions – Wind Actions (BS EN 1991-1-4:2005).
2. Lawson, T., 2001. Building aerodynamics, Imperial College Press [ISBN 1-86094-187-7].
3. ESDU 2010 Item 01008 ‘Computer program for wind speeds and turbulent properties: flat or hilly sites in terrain with roughness changes’.
4. Shih, T.H., Liou, W.W., Shabbir, A., Yang, Z. and Zhu, J., 1995. A new k-ϵ eddy viscosity model for high Reynolds number turbulent flows. Computers & Fluids, 24(3), pp.227-238.
5. Bossard, M., Feranec, J. and Otahel, J., 2000. CORINE land cover technical guide: Addendum 2000.
6. J.P. Bitog, I.B. Lee, H.-S. Hwang, M.-H. Shin, S.-W. Hong, I.-H. Seo, E. Mostafa & Z. Pang (2011) ‘A wind tunnel study on aerodynamic porosity and windbreak drag, Forest Science and Technology’, 7:1, 8-16.



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15. Socio Economic

Appendix 15.1 – Socio-economic data tables

Appendix 15.1 Socio-Economic Baseline Data

Table 1: Total Population[1] (2019)

	Total Population	Male (count)	Male (%)	Female (count)	Female (%)
Assessment Area	58,807	32,139	54.7%	26,668	45.3%
Manchester	552,858	280,396	50.7%	272,462	49.3%
Greater Manchester	2,835,686	1,410,193	49.7%	1,425,493	50.3%

Table 2: Household Composition (2019)[2]

	Manchester		Greater Manchester		England	
Households without dependent children	**120,900**	**62.9%**	**549,800**	**60.6 %**	**10,766,000**	**60.7%**
One-Person Households	49,700	41.1%	202,100	36.8%	3,463,600	32.2%
Lone-Parent Households	9,400	7.8%	48,700	8.9%	894,000	8.3%
Couple Households	43,000	35.6%	256,400	46.6%	5,632,000	52.3%
Other Households	18,800	15.6%	42,500	7.7%	776,300	7.2%
Households with dependent children	**68,500**	**35.6%**	**347,500**	**38.3 %**	**6,795,900**	**38.3%**
Lone-Parent Households	20,200	29.5%	83,300	24.0%	1,432,400	21.1%
Couple Households	44,900	65.5%	251,800	72.5%	5,183,000	76.3%
Other Households	3,300	4.8%	12,400	3.6%	180,500	2.7%
Other Households	**2,800**	**1.5%**	**9,700**	**1.1%**	**179,200**	**1.0%**
Total Households	192,200		907,000		17,741,100	

Table 3: Tenure[3] (2011)

	Assessment Area[4]		Manchester		Greater Manchester	
All households	15,361		204,969		1,128,066	
Owned	1,040	6.8%	31,145	15.2%	307,709	27.3%
Shared ownership (part owned and part rented)	2,514	16.4%	47,731	23.3%	376,388	33.4%
Social rented	3,327	21.7%	64,682	31.6%	247,540	21.9%
Private rented	8,480	55.2%	61,411	30.0%	196,429	17.4%

[1] ONS Population estimates via NOMIS
[2] **ONS 2019 Annual Population Survey**

[3] ONS Census via NOMIS
[4] Using City Centre and Hulme Ward

Table 4: Employment[5] (2019)

	Total Employment	Employees	Full time %	Part time %	FTE
Assessment Area	207,000	204,400	73.5	26.5	177,000
Manchester	410,500	404,000	71.9	28.2	347,500
Greater Manchester	1,388,500	1,359,000	69.7	30.3	617,250

Table 5: Claimant Count (June 2021)

		Assessment Area	Manchester	Greater Manchester	England
Claimant Count June 2019	Claimant Count (no.)	685	16,110	66,520	942,115
	Claimant Count (% 16-64 population)	1.3	4.1	3.7	2.7
Claimant Count June 2020	Claimant Count (no.)	1,810	33,740	138,875	2,200,615
	Claimant Count (% 16-64 population)	3.3	8.7	7.7	6.3
Claimant Count June 2021	Claimant Count (no.)	1,610	32,280	127,985	1,995,710
	Claimant Count (% 16-64 population)	3.0	8.3	7.1	5.7

Table 6: Resident Occupation of those in employment[6] (2018/19)

	Manchester	Greater Manchester	England
Professional occupations	76,300 (29.2%)	291,700 (21.9%)	6,296,400 (22.9%)
Elementary occupations	29,700 (11.4%)	133,200 (10.0%)	2,521,800 (9.2%)
Associate prof & tech occupations	39,300 (15.0%)	209.600 (15.7%)	4,388,900 (15.9%)
Caring, leisure & other service occupations	15,400 (5.9%)	112,200 (8.4%)	2,400,900 (8.7%)
Sales & customer service occupations	20,100 (7.7%)	111,100 (8.3%)	1,840,500 (6.7%)
Administrative & secretarial occupations	27,800 (10.6%)	142,000 (10.6%)	2,779,800 (10.1%)
Managers, directors & senior officials	19,900 (7.6%)	130,900 (9.8%)	3,246,500 (11.8%)
Process, plant & machine operatives	14,900 (5.7%)	80,000 (6.0%)	1,494,700 (5.4%)
Skilled trades occupations	16,000 (6.1%)	116,600 (8.7%)	2,497,800 (9.1%)

Table 7: Doctors Surgeries within 1 mile of the Site[7]

Surgery	Distance	Accepting New NHS Patients?
The Arch Medical Practice	0.3 Miles	Yes
Cornbrook Medical Practice	0.4 Miles	No information Available
Cornbrook Medical Practice- Boundary Surgery	0.6 Miles	No Information Available
The Docs	0.6 Miles	Yes
City Health Centre	0.8 Miles	Yes
Blackfriars Medical Practice	0.8 Miles	Yes
Limelight Health and Well-being Hub	0.9 Miles	Yes
Trinity Medical Centre	0.9 Miles	Yes

Table 8: Dental Practices within 2 miles of the Site[8]

Dental Practice	Distance	Accepting New Adult NHS Patients?	Accepting New Children Patients?
207 Dental Care	0.5 Miles	Not Accepting	Not Accepting

[5] Business Register and Employment Survey (BRES), 2019 via NOMIS
[6] Annual Population Survey
[7] http://www.nhs.uk/Service-Search
[8] http://www.nhs.uk/Service-Search

City Centre Dentists	0.7 Miles	Information not available	Information not available
Bupa Dental Care, Manchester	0.7 Miles	Information not available	Information not available
Parsonage Dental Practice	0.8 Miles	Not Accepting	Not Accepting
Manchester DP Ltd	0.8 Miles	Information not available	Information not available
Ocean Dental Implant and Aesthetic Clinic	0.8 Miles	Information not available	Information not available
Revive Dental Care	0.8 Miles	Information not available	Information not available
Simon Taylor	0.9 Miles	Information not available	Information not available
Archway Dental Practice	0.9 Miles	Information not available	Information not available
Brooks Bar Dental	0.9 Miles	Not Accepting	Not Accepting
Mydentist, Stevenson Square	1.1 Miles	Not Accepting	Not Accepting
The Vallance Dental Centre	1.1 Miles	Not Accepting	Not Accepting
South Manchester Dental Emergency Co-Operative Ltd	1.1 Miles	Information not available	Information not available
Ravat and Ray Dental Care (Salford)	1.2 Miles	Information not available	Information not available
New Cross Dental Surgery	1.3 Miles	Information not available	Information not available
Family Dental Practice	1.3 Miles	Information not available	Information not available
151 Dental Ltd	1.3 Miles	Not Accepting	Not Accepting
Rusholme Dental Practice	1.3 Miles	Information not available	Information not available
Revive Dental Care Limited	1.4 Miles	Information not available	Information not available
The Whalley Range Dental Practice	1.5 Miles	Not Accepting	Not Accepting
Windsor Dental Practice	1.5 Miles	Information not available	Information not available
Deane Dental Practice	1.7 Miles	Information not available	Information not available
Salford Community Health	1.8 Miles	Information not available	Information not available
Mydentist, Platt Lane	1.8 Miles	Not Accepting	Not Accepting
M S Umar Dental Practice	1.8 Miles	Information not available	Information not available
Firswood Dental Practice	1.8 Miles	Not Accepting	Not Accepting
Salford Dental Practice	2 Miles	Information not available	Information not available
The Griffin Dental Surgery	2 Miles	Information not available	Information not available

Table 9: Nurseries within 1.2 miles of the Site[9]

Day Nursery	Distance	Available Places	Number of vacancies
Bright Horizons Manchester	0.32 Miles	Yes	Information not available
Baby Play * Only available Second Monday of each month*	0.44 Miles	Information not available	Information not available
Paint Pots Manchester Day Nursery	0.5 Miles	Yes	Information not available

[9] https://hsm.manchester.gov.uk/kb5/manchester/directory/results.page?directorychannel=1-2-7&qt=&term=M1+2QF&sorttype=distance and https://www.mapdevelopers.com/distance_finder.php

The Mobile Creche Company Ltd	0.79 Miles	Information not available	Information not available
Kidsunlimited St Mary's Day Nursery	0.81 Miles	Yes	Information not available
Little Leaders Preschool	1.09 Miles	Yes	82
First Steps Day Nursery (St Mary's Hospital)	1.15 miles	Yes	5
Dryden Street Nursery	1.17 Miles	Information not available	Information not available
Early Days Day Nursery	1.2 Miles	Information not available	Information not available
The Pankhurst Centre	1.2 Miles	Information not available	Information not available

Table 10: Primary Schools within 1.2 miles of the Site[10]

School	Distance	No. Pupils	Capacity	Available Capacity
St Wilfrid's RC Primary School (Hulme)	0.29 Miles	189	210	11
St Philip's CofE Primary School	0.36 Miles	194	210	16
Rolls Crescent Primary School	0.51 Miles	392	450	58
Holy Name RC Primary School	0.96 Miles	174	210	36
Webster Primary School	1.05 Miles	488	630	142
St Mary's CofE Primary School	1.08 Miles	207	209	-2
Medlock Primary School	1.09 Miles	410	420	10
St Alphonsus Primary School	1.0 Mile	No Information Available	No Information Available	No Information Available
St Joseph's RC Primary School Salford	1.2 Miles	154	166	12
Primary Total				283[11]

Table 11: Secondary Schools within 3 miles of the Site[12]

School	Distance	No. Pupils	Capacity	Available Capacity
Trinity Church of England High School	0.68 miles	1379	1500	121
Manchester Academy	1.19 Miles	1076	1200	124
Afifah School	1.3 Miles	No Information Available	No Information Available	
Waverly Highschool	1.4 Miles	No Information Available	No Information Available	
Deans Trust Ardwick	1.8 Miles	896	1200	304
Eden Boys' Leadership Academy	1.85 Miles	240	800	560
William Hulme's Grammar School Academy	1.87 Miles	1352	1520	168
Oasis Academy Media City UK	1.9 Miles	618	900	282
Eden Girls' Leadership Academy	1.97 Miles	240	800	560
Stretford High School	2.2 Miles	No Information Available	No Information Available	
Whalley Range High School	2.7 Miles	1568	1650	82
Secondary Total				2,201[13]

[10] https://secure.manchester.gov.uk/directory/84/school_finder and https://www.mapdevelopers.com/distance_finder.php and Department for education (DfE), School Capacity underlying data for 2017/18
[11] In schools where capacity is available
[12] https://secure.manchester.gov.uk/directory/84/school_finder and https://www.mapdevelopers.com/distance_finder.php and (DfE), School Capacity underlying data for 2018/19
[13] In schools where capacity is available

16. Type 1 Cumulative Effects

No Appendices

17. Conclusion and Summary of Residual Effects

No Appendices

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