

LB/230817 / LLFA Letter / SCP Response
28 October 2025

Jake Challinor-Smith
Senior Planner
York House
York Street
Manchester, UK
M2 3BB

Planning Reference – 139751/FO/2024

Dear Jake,

SCP Technical Response to Manchester City Council Planning Condition [PC27] Drainage

1.0 INTRODUCTION

Thank you for forwarding to us the Manchester City Council [MCC] Planning approval [Planning Condition 27] drainage comments for Lidl Fallowfield.

This letter will summate the points raised by Manchester City Council in document received on 25th June 2025, document reference 'ufm29_Decision_Notice', with SCP technical responses, and aims to supplement and address PC27.

SCP's Previous response to comments raised regarding PC27 can be found in Appendix A

In summary the remaining PC27 drainage queries covered the following aspects:

- Use of SuDs
- Greenfield runoff rates
- Attenuation tank details
- Layout consistency

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3.0 APPENDICES

APPENDIX A – SCP’S PREVIOUS RESPONSE – AI/230817/LLFA LETTER/SCP RESPONSE

APPENDIX B – EXTERNAL WORKS PLAN 7397-SMR-00-XX-DR-A-2003-A3-C6

APPENDIX C – OVERLAND FLOWS DRAWING 200509-0500-004

APPENDIX D – DRAINAGE STANDARD CONSTRUCTION DETAILS LD(14)-SP-06-SO-01

4.0 EXECUTIVE SUMMARY

1. Infiltration testing has proven that discharge through infiltration is unfeasible for this site.
2. Greenfield run off rate has been proposed to discharge at 4.78l/s.
3. Flooding calculations are compliant with local and national standards
4. Lidl standard cross section construction details have been provided.
5. Overland flood flow route analysis has been undertaken to show that flooding does not affect the Lidl store and can be effectively managed.

5.0 PC 27 RESPONSES

Number	Item	Response
1	598 sqm of landscaping area has been included in the site layout. It is unclear why no further consideration of green SuDS (other than infiltration) has been made, such as bioretention. A below-ground attenuation tank only is proposed. 'Table 5 – SuDS Assessment' lists SuDS options but does not explain why these have been discounted and suggests that there is potential for Filter Trenches and Tree Pits.	<p>The planning consented scheme has been approved in its present form within the drainage strategy included in Appendix J of the planning approved flood risk assessment, in accordance with National Planning Policy Framework [NPPF] 2023.</p> <p>Therefore, we are not proposing any further SUDS options over and above the planning approved drainage strategy design.</p>
2	Runoff volumes compared to greenfield have not been provided	<p>We assume when you talk about run off volumes you are referring to the runoff rates. The greenfield run-off calculation is note in the following locations in the planning approved FRA:</p> <ul style="list-style-type: none"> - Refer to Appendix N of the 'planning approved' flood risk assessment report - Report section 1.13 - Report section 8.7 - Report section 8.13 - Report section 12.1 - Report section 13.13 - PC27 letter section 4.1 and 4.3 - PC27 letter section 5 number 1 - PC letter Appendix B - The calculated greenfield run-off rate for this development has been calculated at 4.78 liters per second.
3	<i>Flooding is predicted in the 1 in 100 and 1 in 100+45%CC scenarios. Currently flood volumes have been hand-written onto a drainage layout, and general areas highlighted yellow. Also required is clarification as to whether a larger tank could be utilised to prevent predicted flooding at the 1 in 100 and 1 in 100+45%CC events and demarcation of the predicted flood volumes from all manholes and the modelled/mapped rote of this predicted flooding onto a drainage layout or the overland flow route plan, supported by mapped site levels.</i>	<p>National and local standards are:</p> <ul style="list-style-type: none"> • 30 years – no flooding allowed • 100 years – flooding is allowed as long as no flooding of buildings or leaving site • 100 years +45%CC – flooding is allowed as long as no flooding of buildings or leaving site <p>Therefore, our modelling is compliant against national and local polices for modelling and flooding compliance.</p> <p>Our 100 years +45%CC shows 15m3 of flooding at manhole 1, located around the back of the Lidl store.</p> <p>The existing site has a large brick wall, which is being retained and will act as a barrier to stop flood water actively leaving the site and at this location the store building has no</p>

		<p>door opens. [Refer to Appendix B external works drawing 2004-A3-C3.</p> <p>The below image from Google Maps shows the existing brick wall along the back of the site boundary.</p>  <p>Please also refer to the Appendix C for proposed overland flows drawing (200509-0500-004) showing the location of MH01</p> <p>Therefore, no flooding of the new building or leaving site would occur.</p>
4	<p><i>Site-specific cross-section construction details drawing of the proposed attenuation tank, including levels, dimensions etc.</i></p>	<p>We have attached the Lidl base specification typical tank detail LD(14)-SP-06, see Appendix D.</p>
5	<p><i>The applicant must present a consistent package to discharge this condition (including all layouts and calculations). The layout and calculations must be jointly updated to account for any edits required. When preparing a resubmission, the applicant must ensure that the drainage layout and hydraulic calculations correspond, and that they can be cross-referenced for checks. This includes layout annotations and schedule printouts.</i></p>	<p>It is acknowledged that the pipe numbers that are in the drainage modelling report are not shown on the drainage strategy layout [due to the strategy coming first, then the modelling report second], and that on the drainage strategy the pipe sizes are 225mm and the developed hydraulic modelling shows these at 300mm to remove throttle and utilise the capacity identified in the storage tank.</p> <p>This is to be captured and updated on the internal drainage detailed design, by the Lidl appointed consultant for the internal drainage design tender package.</p>

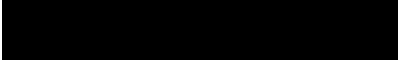
6.0 CONCLUSION

1. For the 1 year, 2 year, 30 year storm and 100 year + 45% CC events the Micro-drainage hydraulic simulation results show that the Lidl Fallowfield proposed storage tank is suitably sized to provide storage for the site and allow for a 4.78l/s discharge rate in line with the greenfield run off rate.
2. SuDS measures have been proposed including a petrol interceptor and catchpits to remove sediment and fluids other than water prior discharge into existing watercourse.
3. Overland flood flow route analysis has been undertaken to show that flooding does not affect the Lidl store and can be effectively managed.
4. Tank cross sections and construction details attached.
5. Hydraulic modelling and drainage design to be co-ordinated at detailed drainage design.

We trust that the enclosed written information on the additional information to the Lidl Fallowfield drainage design is acceptable and will enable any concerns to be lifted and assist the supporting of discharge planning condition PC 27.

If any further queries or comments are raised regarding drainage and flood risk, we are happy to discuss and help resolve them.

Will James
Senior Engineer [Technical Lead for Drainage]
On behalf of SCP



S|C|P

APPENDIX A

AI/230817 / LLFA Letter / SCP Response
24 February 2025

Jake Challinor-Smith
Senior Planner
York House
York Street
Manchester, UK
M2 3BB

Planning Reference – 139751/FO/2024

Dear Jake,

SCP Technical Response to Manchester City Council Planning Condition [PC27] Drainage

1.0 INTRODUCTION

Thank you for forwarding to us the Manchester City Council [MCC] Planning approval [Planning Condition 27] drainage comments for Lidl Fallowfield.

This letter will summate the points raised by Manchester City Council, with SCP technical responses, and aims to supplement and address PC27.

The aim of PC27 is to promote sustainable development, secure proper drainage and to manage the risk of flooding and pollution, pursuant to policies EN8 and EN14 of the Manchester Core Strategy.

The surface water drainage comments can be found in the planning document '139751/FO/2024' in **Appendix A**.

In summary the PC27 drainage queries covered the following aspects:

- Discharge rates,
- Use of SuDS,
- Attenuation details,
- Flooding assessment,
- Hydraulic modelling,
- Construction details,
- Infiltration testing,
- Discharge connections.

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3.0 APPENDICES

APPENDIX A – PLANNING DOCUMENT ‘139751/FO/2024’

APPENDIX B – FLOOD RISK ASSESSMENT – DISCHARGE RATES

APPENDIX C – SUSTAINABLE URBAN DRAINAGE SYSTEM COMPONENTS

APPENDIX D – EXISTING AND PROPOSED IMPERMEABLE AREA PLANS

APPENDIX E – MODEL SIMULATION RESULTS AND FLOOD ASSESSMENT SKETCHES

APPENDIX F – OVERLAND FLOOD FLOW ROUTE DRAWINGS

APPENDIX G – SOAKAWAY INFILTRATION RESULTS

APPENDIX H – CONSTRUCTION DETAILS AND SPECIFICATIONS

4.0 EXECUTIVE SUMMARY

1. Greenfield run off rate has been proposed to discharge at 4.78l/s.
2. Site has been demonstrated to be SuDS friendly with the use of hydrobrake flow controls, geocellular attenuation tanks, petrol interceptors.
3. A geocellular tank has been proposed to provide sufficient storage for the surface water to discharge into the existing watercourse at the greenfield run off rate of 4.78l/s.
4. Infiltration testing has proven that discharge through infiltration is unfeasible for this site.
5. Overland flood flow route analysis has been undertaken to show that flooding does not affect the Lidl store and can be effectively managed.

5.0 PC 27 RESPONSES

Number	Item	Response
1	Clarification on the proposed discharge rates into Fallowfield Brook culvert	<p>Refer to the <u>planning approved</u> Flood Risk Assessment revision G.</p> <p>The approved FRA states the following on the proposed surface water discharge rates : [Refer to Appendix B of this report]</p> <ul style="list-style-type: none"> - Paragraph 1.13 - 4.78l/s - Paragraph 8.7 - 4.78l/s - Paragraph 8.13 - 4.78l/s - Paragraph 12.1 - 4.78l/s - Paragraph 13.13 - 4.78l/s - Appendix J - Drainage Strategy 200509-0500-002 Rev B - 4.78l/s - Appendix K - QSE - 4.78l/s - Appendix N - Greenfield rate - 4.78l/s
2	Maximised integration of green SuDS components if practicable, to compensate for the proposed loss of bioretentive features on-site. An appraisal of green SuDS components demonstrating maximised integration should be submitted	<p>Refer to the <u>planning approved</u> Flood Risk Assessment revision G</p> <p>Section 7 / Table 5: [Refer to Appendix C of this report]</p> <p>The table demonstrates the existing and proposed site and SUDS components assessment:</p> <ul style="list-style-type: none"> - Existing site has been demonstrated to not be SuDS friendly. - Proposed site is demonstrated to be SuDS friendly.
3	Details of surface water attenuation that offers a reduction in surface water runoff rate in line with the Manchester Trafford and Salford Strategic Flood Risk Assessment, i.e. at least a 50% reduction in runoff rate compared to the existing rates, as the site is located within Levenshulme Fallowfield Critical Drainage Area. Please note that all new connections to the watercourses shall comply with reduction of flows to Greenfield runoff rates	<p>Refer to the <u>planning approved</u> Flood Risk Assessment revision G</p> <p>For surface water attenuation details refer to the following:</p> <ul style="list-style-type: none"> ▪ Appendix B – discharge rates and strategy plan ▪ Appendix E – drainage modelling tank 472m3 ▪ Appendix H – storage tank product
4	An existing and proposed impermeable areas drawings to accompany all discharge rate calculations	<p>Refer to the <u>planning approved</u> Flood Risk Assessment revision G – Appendices B and C.</p> <p>Refer to existing and proposed impermeable area plans which can be found in Appendix D of this report</p>

5	Runoff volume in the 1 in 100 year, 6 hours rainfall shall be constrained to a value as close as is reasonable practicable to the greenfield runoff volume for the same event, but never to exceed the runoff volume from the development site prior to redevelopment	<p>Refer to proposed surface water hydraulic modelling simulation results pack which can be found in Appendix E of this report.</p> <p>The hydraulic drainage results show an underground tank size of 472m³, which the results show supports the drainage system to comply with standards</p> <p>30 year results – no flooding 100 year results – minor flooding allowed 100 year results +40% CC – minor flooding allowed</p>
6	Evidence that the drainage system has been designed (unless an area is designated to hold and/or convey water as part of the design) so that flooding does not occur during a 1 in 100 year rainfall event with allowance for 40% climate change in any part of a building	<p>Refer to proposed surface water hydraulic modelling simulation results pack which can be found in Appendix E of this report.</p> <p>The hydraulic drainage results show an underground tank size of 472m³, which the results show supports the drainage system to comply with standards</p> <p>30 year results – no flooding 100 year results – minor flooding allowed 100 year results +40% CC – minor flooding allowed</p>
7	Assessment of overland flow routes for extreme events that is diverted away from buildings (including basements). Overland flow routes need to be designed to convey the flood water in a safe manner in the event of a blockage or exceedance of the proposed drainage system capacity including inlet structures. A layout with overland flow routes needs to be presented with appreciation of these overland flow routes with regards to the properties on site and adjacent properties off site	<p>Refer to overland flood flow route drawings in Appendix F of this report.</p> <p>Also refer to Appendix E of this report, for flood assessment sketches for flooding volumes from drainage hydraulic modelling.</p>
8	Results of ground investigation carried out under Building Research Establishment Digest 365. Site investigations should be undertaken in locations and at proposed depths of the proposed infiltration devices . Proposal of the attenuation that is achieving half emptying time within 24 hours. If no ground investigations are possible or infiltration is not feasible on site, evidence of alternative surface water disposal routes (as follows) is required	<p>Refer to the <u>planning approved</u> Flood Risk Assessment revision G. [Appendix H]</p> <p>Refer to Appendix G of this report for the infiltration testing results.</p> <p>The infiltration test results show that infiltration is not feasible on site.</p>

9	Where surface water is connected to the ordinary watercourse, agreement in principle from Manchester City Council as Lead Local Flood Authority is required. Please note that all new connections to the watercourses shall comply with reduction of flows to Greenfield runoff rates. An email of acceptance of proposed flows and/or new connection will suffice.	Refer to the <u>planning approved</u> Flood Risk Assessment revision G. Proposed discharge rate into the watercourse is in line with the greenfield run off rate as described in item 1 of this report. Acceptance of the proposals by the LLFA are believed to be approved in principle by the planning approval, any additional paperwork is to be confirmed.
10	Where surface water is connected to ordinary watercourse, any works within or adjacent to the watercourse that would affect it would require consent from Manchester City Council as Lead Local Flood Authority	Refer to the <u>planning approved</u> Flood Risk Assessment revision G. Proposed discharge rate into the watercourse is in line with the greenfield run off rate as described in item 1 of this report. Acceptance of the proposals by the LLFA are believed to be approved in principle by the planning approval, any additional paperwork is to be confirmed.
11	Where surface water is connected to the public sewer, agreement in principle from United Utilities is required that there is adequate spare capacity in the existing system taking future development requirements into account. An email of acceptance of proposed flows and/or new connection will suffice	Refer to the <u>planning approved</u> Flood Risk Assessment revision G. As per the drainage hierarchy connection to public sewer is the 3 rd option, once options 1 and 2 are eliminated. Option 2 was the identified method of connection.
12	For sites where proposed development would cause unusual pollution risk to surface water (large car park areas (>50 parking spaces) or industrial estates), evidence of pollution control measures (preferably through SuDS) is required	Petrol interceptor is proposed as a SuDS measure to minimise pollution risk caused by the vehicles. Refer to the Drainage Strategy 200509-0500-002 Rev B
13	Hydraulic calculations of the proposed drainage system	Refer to proposed surface water hydraulic modelling simulation results pack which can be found in Appendix E of this report. The hydraulic drainage results show an underground tank size of 472m ³ , which the results show supports the drainage system to comply with standards 30 year results – no flooding 100 year results – minor flooding allowed 100 year results +40% CC – minor flooding allowed
14	Construction details of flow control and SuDS elements	Refer to construction details and specifications found in Appendix H of this report.

6.0 CONCLUSION

1. The Infiltration test results at two boreholes in the site were 1.21×10^{-7} and 4.75×10^{-7} m/s, which shows that discharge through infiltration is unfeasible since it is a poor infiltration rate.
2. For the 1 year, 2 year, 30 year storm and 100 year + 45% CC events the Micro-drainage hydraulic simulation results show that the Lidl Fallowfield proposed storage tank is suitably sized to provide storage for the site and allow for a 4.78l/s discharge rate in line with the greenfield run off rate.
3. SuDS measures have been proposed including a petrol interceptor and catchpits to remove sediment and fluids other than water prior discharge into existing watercourse.
4. Overland flood flow route analysis has been undertaken to show that flooding does not affect the Lidl store and can be effectively managed.
5. Acceptance of the proposed drainage layout and details regarding the connection into existing watercourse are to be confirmed with Manchester City Council as the LLFA.

We trust that the enclosed written information on the additional information to the Lidl Fallowfield drainage design is acceptable and will enable any concerns to be lifted and assist the supporting of discharge planning condition PC 27.

If any further queries or comments are raised regarding drainage and flood risk, we are happy to discuss and help resolve them.

Preferred by:

Aqib Imran
Assist Engineer
On behalf of SCP

Checked / approved by:

Will James
Senior Engineer [Technical Lead for Drainage]
On behalf of SCP

Town & Country Planning Act 1990 (as amended)
Planning (Listed Building & Conservation Area) Act 1990 (as amended)

Refusal of details reserved by condition

Applicant

Lidl Great Britain Limited
C/o Agent

Agent (if used)

Mr Jake Challinor-Smith
Rapleys LLP
York House
York Street
Manchester
M2 3BB

Part 1 – Particulars of the application/development

Proposal: Discharge of condition 27 (surface water drainage) attached to planning permission referenced 139751/FO/2024

Location: Fallowfield Shopping Centre, Birchfields Road, Manchester, M14 6FS

Date of application: 13 May 2025

Application number: CDN/25/0444

Part 2 – Particulars of decision

Manchester City Council gives notice that the detail(s) referred to in Part 1 are **Refused** in accordance with the information set out below.

Condition 27 (drainage)

The submitted drainage details have been considered by the Council's Flood Risk Management team and assessed as not be satisfactory.

The following items are outstanding:

-598 sqm of landscaping area has been included in the site layout. It is unclear why no further consideration of green SuDS (other than infiltration) has been made, such as bioretention. A below-ground attenuation tank only is proposed. 'Table 5 - SuDS Assessment' lists SuDS options but does not explain why these have been discounted, and also suggests that there is potential for Filter Trenches and Tree Pits.

-Runoff volumes compared to greenfield have not been provided

-Flooding is predicted in the 1 in 100 and 1 in 100+45%CC scenarios. Currently flood volumes have been hand-written onto a drainage layout, and general areas highlighted yellow. Also required is clarification as to whether a larger tank could be utilised to prevent predicted flooding at the 1 in 100 and 1 in 100+45%CC events and demarcation of the predicted flood volumes from all manholes and the modelled/mapped route of this

predicted flooding onto a drainage layout or the overland flow route plan, supported by mapped site levels.

-Site-specific cross-section construction details drawing of the proposed attenuation tank, including levels, dimensions etc.

The applicant must present a consistent package to discharge this condition (including all layouts and calculations). The layout and calculations must be jointly updated to account for any edits required. When preparing a resubmission, the applicant must ensure that the drainage layout and hydraulic calculations correspond, and that they can be crossreferenced for checks. This includes layout annotations and schedule printouts.

Until such time that satisfactory details are received and agreed in writing by the City Council as Local Planning Authority, condition 27 cannot be discharged.

Date: 25 June 2025

Signed: 

Julie Roscoe
Director of Planning, Building Control & Licensing

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

Notes

1. This decision relates only to that required under the Town and Country Planning Act 1990 (as amended) or Planning (Listed Building & Conservation Area) Act 1990 (as amended) does not include any consent or approval under any other enactment, byelaw, order or regulation.

2. If the applicant is aggrieved by the decision of the local planning authority to refuse permission or approval for the proposed development, or to grant permission or approval subject to conditions, they may appeal to the Secretary of State in accordance with Section 78(1) of the Town and Country Planning Act 1990 or sections 20 and 21 of the Planning (Listed Building & Conservation Area) Act 1990 within six months of the date of the notice of the decision. However, if an enforcement notice has been served for the same or very similar development within the previous 2 years, the time limit is:

- 28 days from the date of the LPA decision if the enforcement notice was served before the decision was made yet not longer than 2 years before the application was made.
- 28 days from the date the enforcement notice was served if served on or after the date the decision was made (unless this extends the appeal period beyond 6 months).

The Planning Inspectorate have introduced an online appeals service that can be used to make appeals online. This service is available through the gov.uk website – www.gov.uk/appeal-planning-inspectorate. The Inspectorate will publish details of your appeal on the internet.

Alternatively, appeals can be made on a form which is obtainable from Planning Inspectorate, Customer Support Unit, Room 3/15, Eagle Wing, Temple Quay House, 2 The Square, Temple Quay, Bristol BS1 or by telephone 0117 372 6372.

The Secretary of State has power to allow a longer period for the giving of a notice of appeal but they will not normally be prepared to exercise this power unless there are special circumstances that excuse the delay in giving notice of appeal.

3. The statutory requirements are those set out in Section 79(6) of the Town and Country Planning Act 1990, namely Sections 70(1) and 72(1) of the Act.

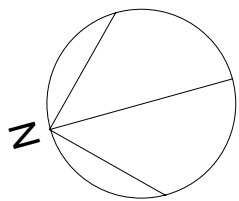
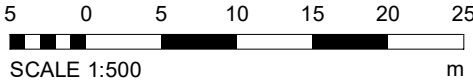
4. If either the local planning authority or the Secretary of State refuses permission to develop land or grants it subject to conditions, the owner may claim that they can neither put the land to a reasonably beneficial use in its existing state nor render the land capable of a reasonably beneficial use by the carrying out of any development which has been or would be permitted.

In these circumstances, the owner may serve a purchase notice on the Council in whose area the land is situated. This notice will require the Council to purchase their interest in the land in accordance with the provisions of Part VI of the Town and Country Planning Act 1990

5. In certain circumstances, a claim may be made against the local planning authority for compensation, where permission is refused or granted subject to conditions by the Secretary of State on appeal or on a reference of the application to them. The circumstances in which such compensation is payable are set out in Section 114 of the Town and Country Planning Act 1990.

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APPENDIX B



Architects are to be notified of any discrepancies.
Contractors must check all dimensions on site.
This drawing is subject to copyright laws and is for use on this project only.
This drawing is to be used solely for the information as titled only.
For other information refer to the latest revision of any cross referenced drawings.
To be read in conjunction with relevant design standards/protocols

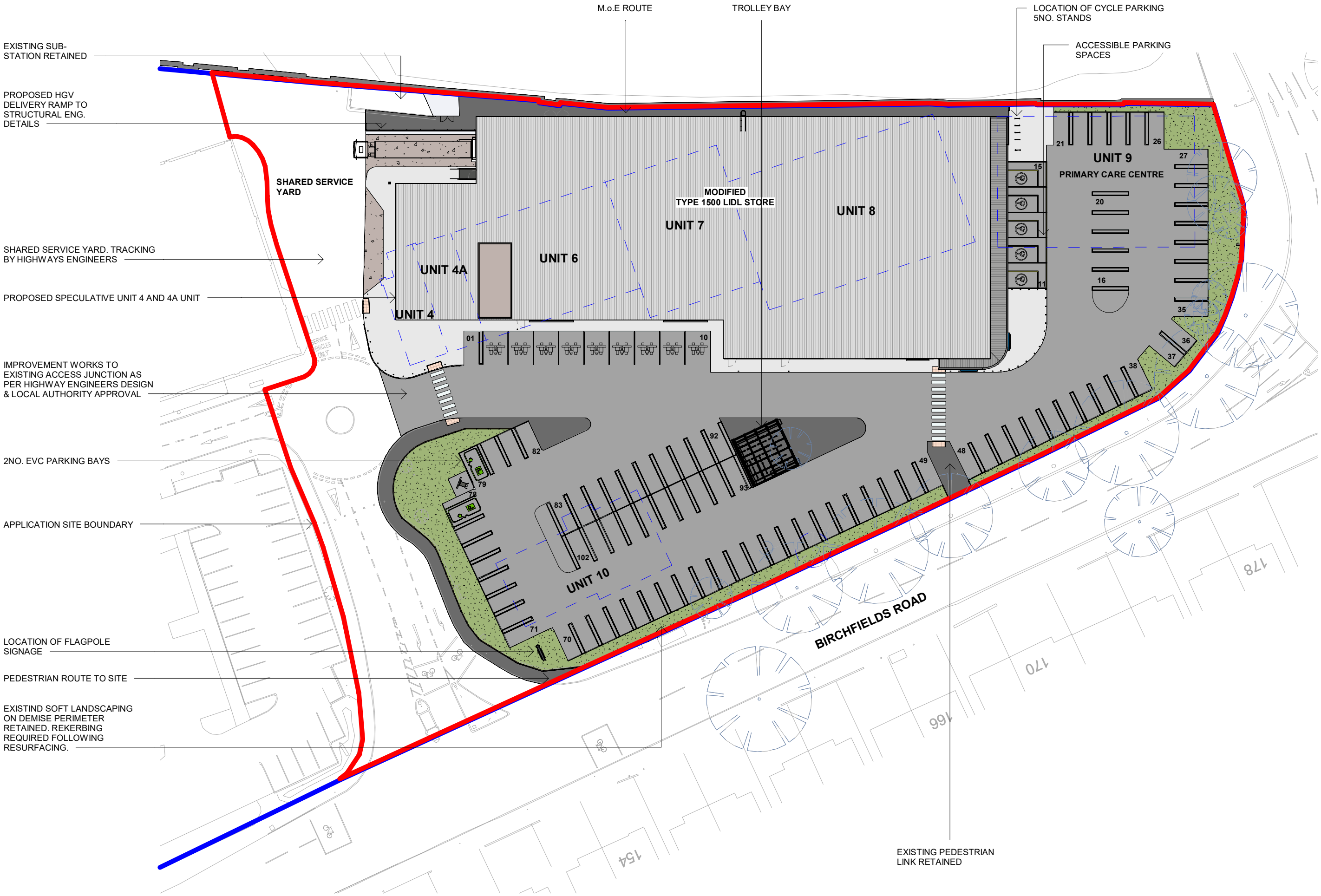
This is a colour drawing. In order to ensure any subsequent reproduction is viewed correctly it should be printed in full colour.

BOUNDARY SCHEDULE - OPTION 7D			
	BOUNDARY	ACRES	SQM
	SITE APPLICATION BOUNDARY	2.23	9033.87

TREES REMOVED SUBJECT TO TREE SPECIALIST REVIEW & LPA APPROVAL. REFER TO LANDSCAPE ARCHITECT PROPOSALS.

EXISTING BUILDINGS AND SITE ELEMENTS TO BE DEMOLISHED / REMOVED.

PARKING SCHEDULE OPT 7D	
	QUANTITY
EVC SPACES	2
LIDL ACCESSIBLE SPACES	5
LIDL PARENT & CHILD SPACES	9
LIDL STANDARD SPACES	86
GRAND TOTAL	102



C6	UPDATED AS PER LATEST LIDL SPEC - PLANNING	27.02.24	SP	JM
C5	PLANNING UPDATE AS PER CLIENTS REQUEST	13.11.23	SP	JM
C4	PLANNING PACK AMENDMENTS	17.10.23	SI	JM
C3	ALTERATIONS TO SCHEME - PLANNING ISSUE	03.10.23	SP	JM
C2	SCHEME UPDATED. ISSUED FOR PLANNING	01.02.22	MN	JM
C1	Planning issue	09.04.21	DM	JM
P5	EVC spaces added	07.04.21	DM	JM
P4	Layout updated to show phase 2, VRF units & flagpole	06.04.21	DM	JM
P3	Unit 4 revised	19.03.21	DM	JM
P2	Layout updated	11.12.20	DM	JM
P1	First issue	09.10.20	DM	JM
Rev	Description	Date	Dm	Ckd

Status

PLANNING

SMR

SMALLEY MARSEY RISPIN

ARCHITECTS

Floor 2 The Exchange Station Parade Harrogate HG1 1TS
01423 707 757 admin@smrarchitects.co.uk

Project

FOLLOWFIELD RETAIL PARK

Client



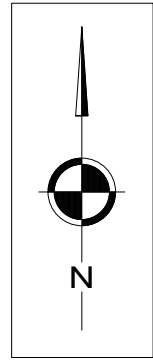
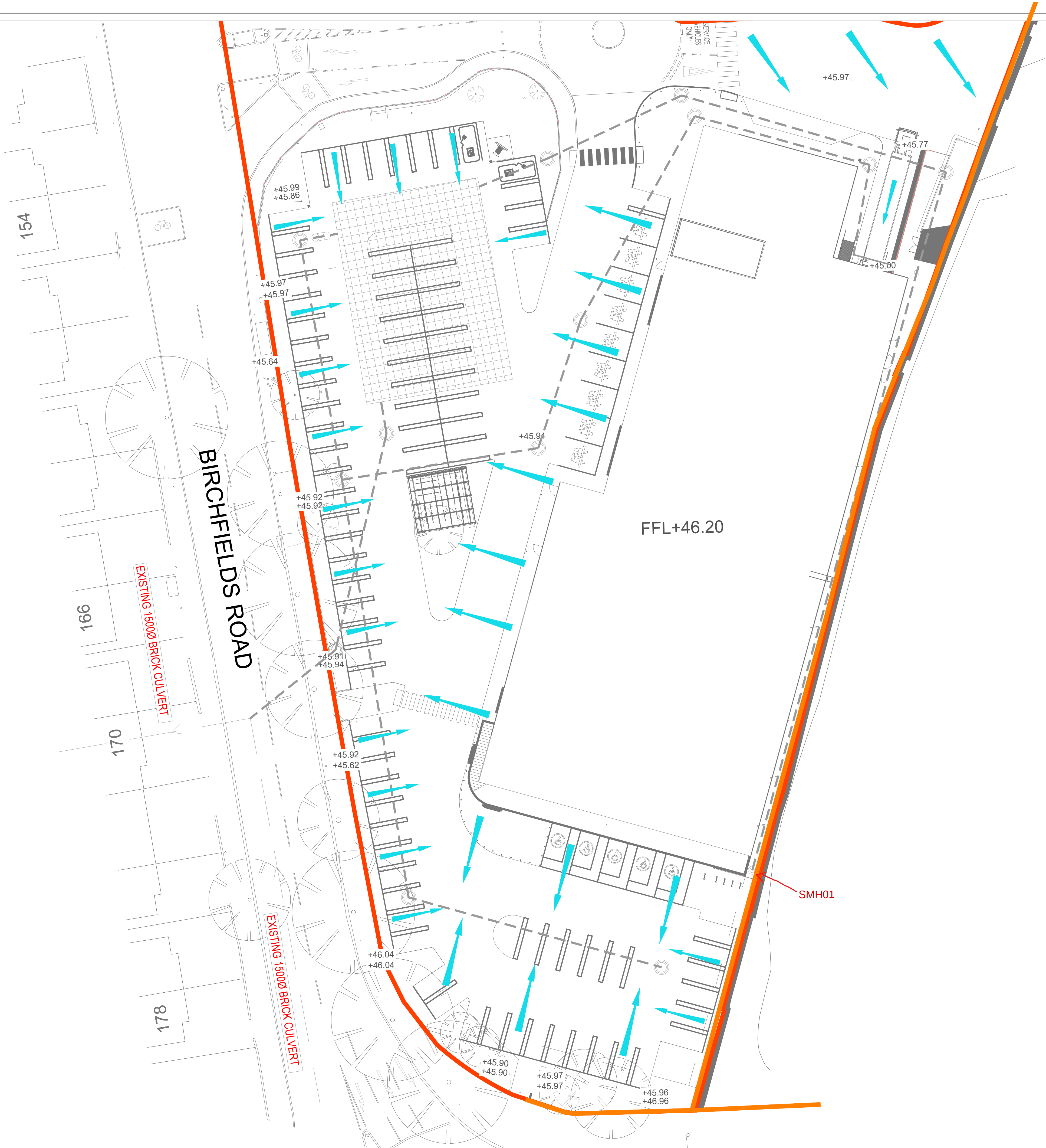
Drawing Title

PROPOSED SITE PLAN

Proj Ref	Origin	Zone	Level	Type	Role	Num	Status	Rev
- - - 7397 -	SMR	00	XX	DR	A	2003	A3	C6
SMR Job Ref		Sheet		Scale		Drawn		
7397-00-2003		A2		1 : 500		DM		

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APPENDIX C



NOTES

1.

ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED BY SCP.

2.

ANY DISCREPANCIES ON THIS DRAWING SHALL BE BROUGHT TO THE ATTENTION OF SCP.

3.

UNDERGROUND SERVICES ARE PRESENT IN THE AREA, CONTRACTOR IS TO CONFIRM THE PRECISE LINE AND DEPTH OF ANY SERVICES PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS.

OVERLAND FLOW PATHWAY ARROW

EXISTING WALL

ACO CHANNEL DRAIN

PROPOSED SURFACE WATER MANHOLE

RWP
RAIN WATER PIPE

PCC GULLY POT

150mmØ GULLY LEAD

CLASS 2 BYPASS PETROL / OIL INTERCEPTOR

ATTENUATION STORAGE TANK

REVISIONS			
REV	DESCRIPTION	DATE	BY
-	FIRST ISSUE	20/05/25	HG

S | C | P

Transportation Planning : Infrastructure Design

2 Mount Street, Albert Square, Manchester, M2 5WQ, Tel 0161 832 4400, Fax 0161 832 5111
www.singletonclamp.co.uk, Email: consult@singletonclamp.co.uk

Client Name:

Project Title:

LIDL FALLOWFIELD

Drawing Title:			
PROPOSED OVERLAND FLOWS			
Date:	20.05.2025	Drawn By:	HG
Scale:	1:250@ A1	Checked:	AI
Status:	DETAILED DESIGN	Approved:	UNAPPROVED

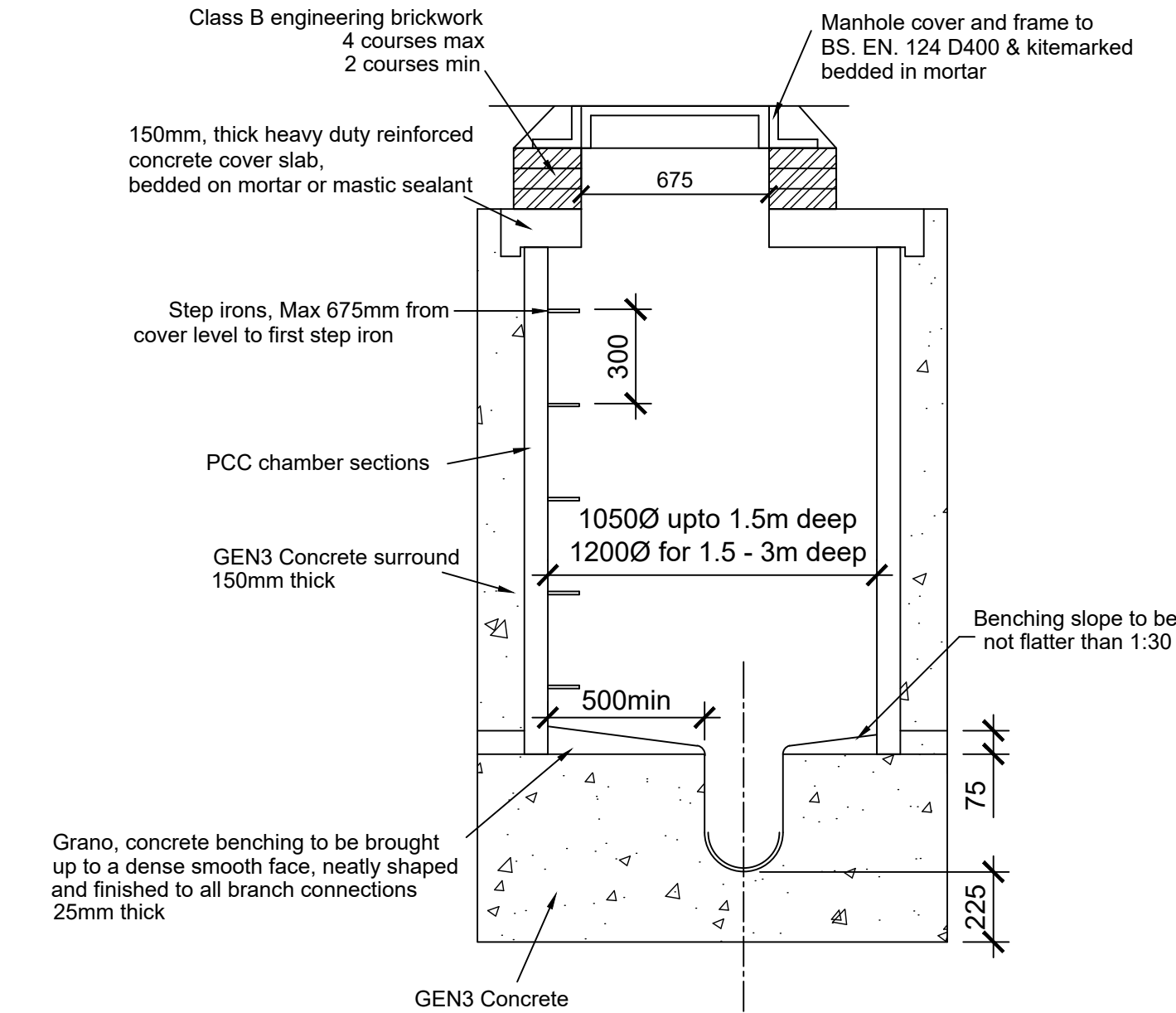
Drawing No.	200509-0500-004	Rev.	-
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APPENDIX D

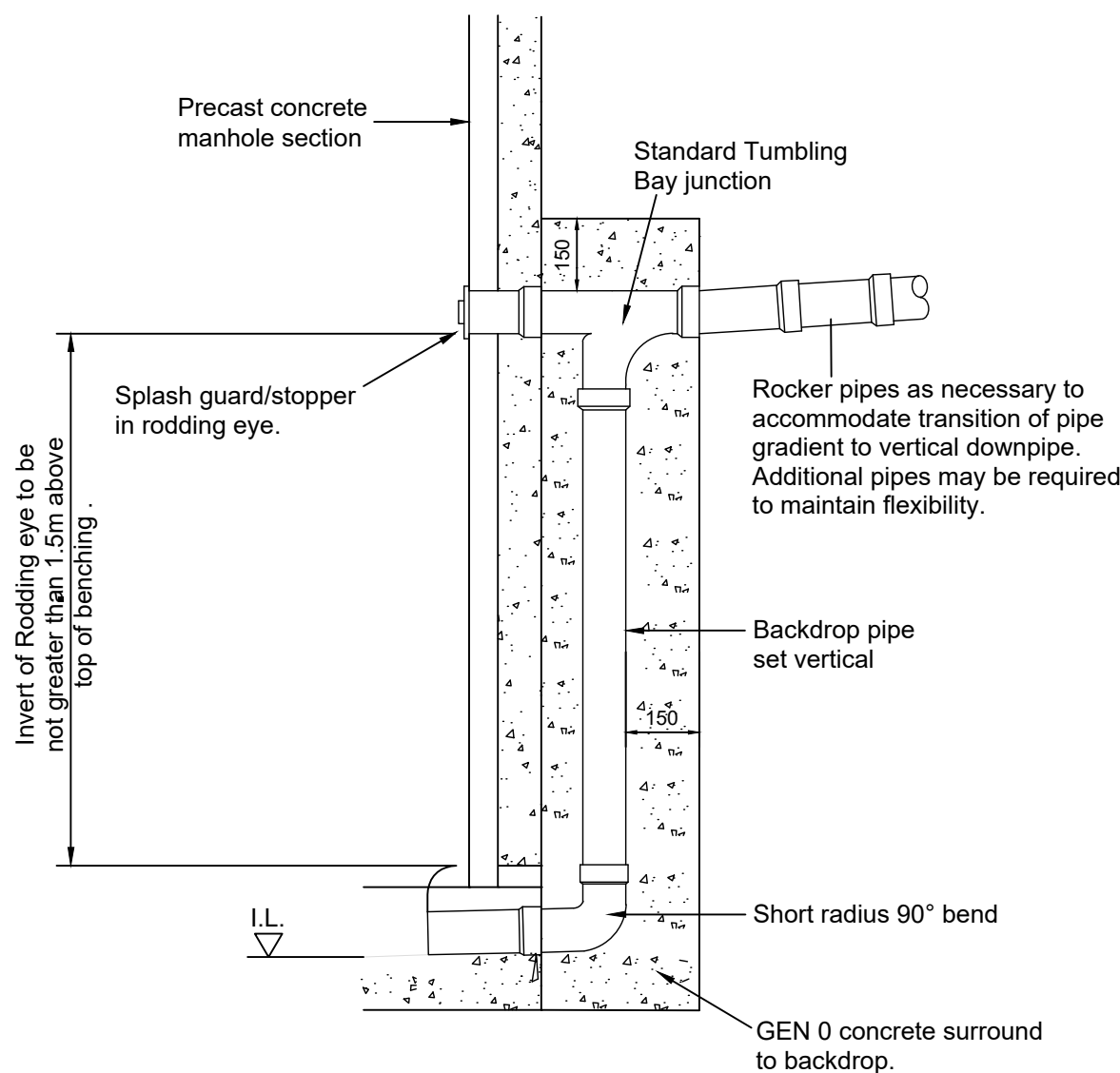
Architectural drawings show design intent in accordance with Lidl International Specification. Site Specific Design Teams should use these drawings for guidance only. Full design responsibility will remain with the Site Specific Team and thus they should ensure their Proposals fully comply with all relevant statutory authority requirements relevant to the individual project.

All deviations from the design intent should be approved by Lidl.

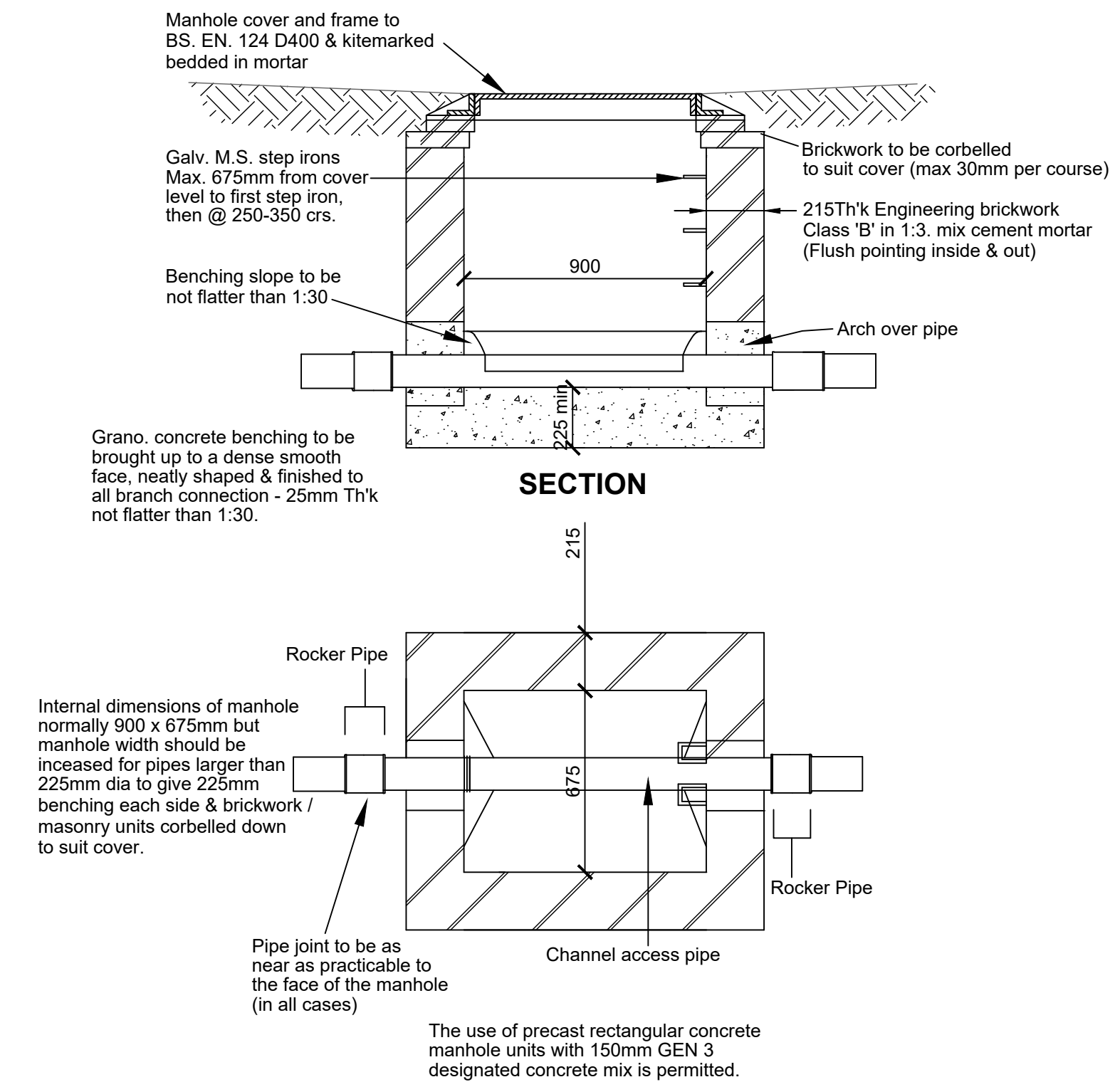


PLAN

ADOPTABLE MANHOLE DETAIL TYPE 2
Depth from cover level to pipe soffit 3m max
Scale 1:20

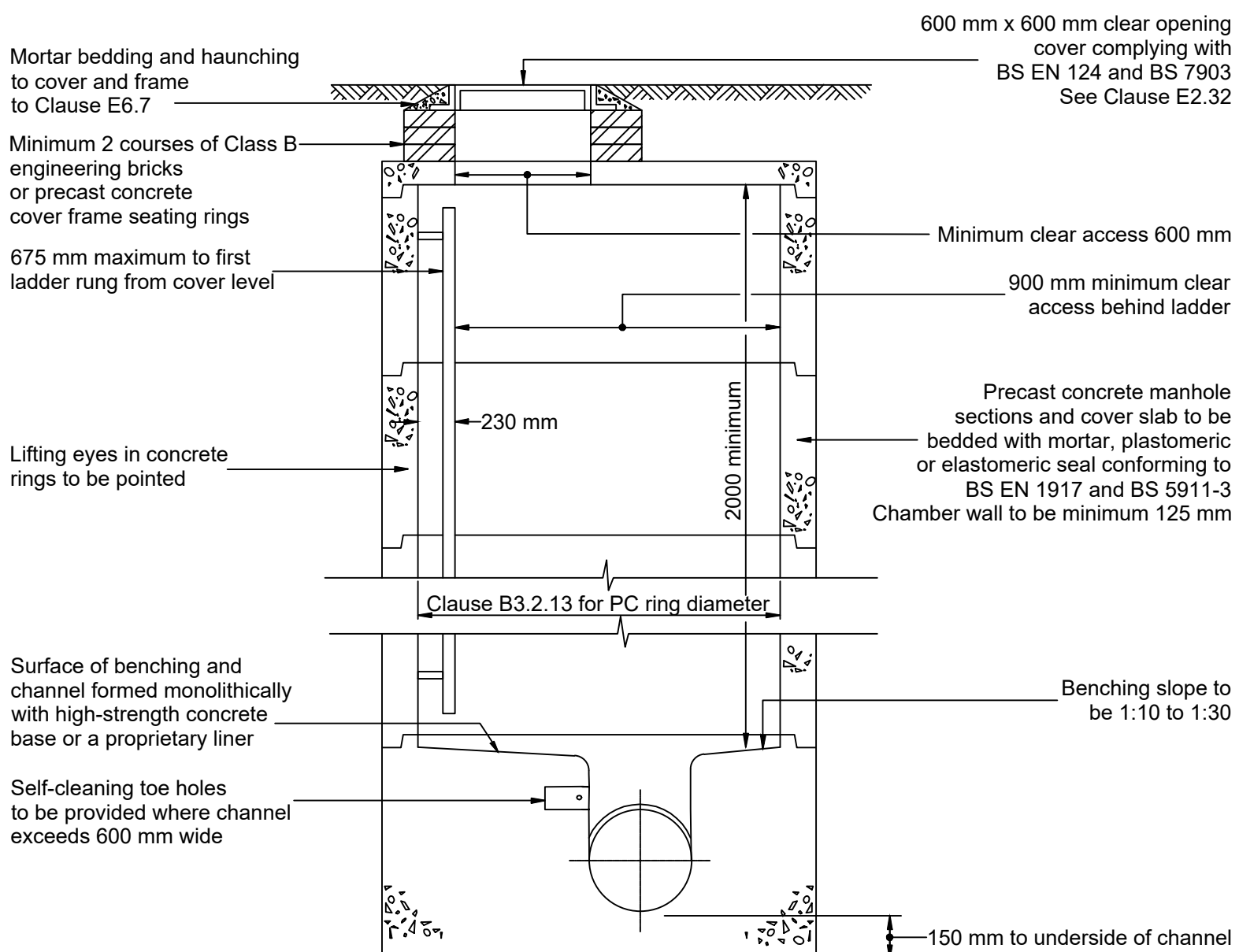


EXTERNAL BACKDROP

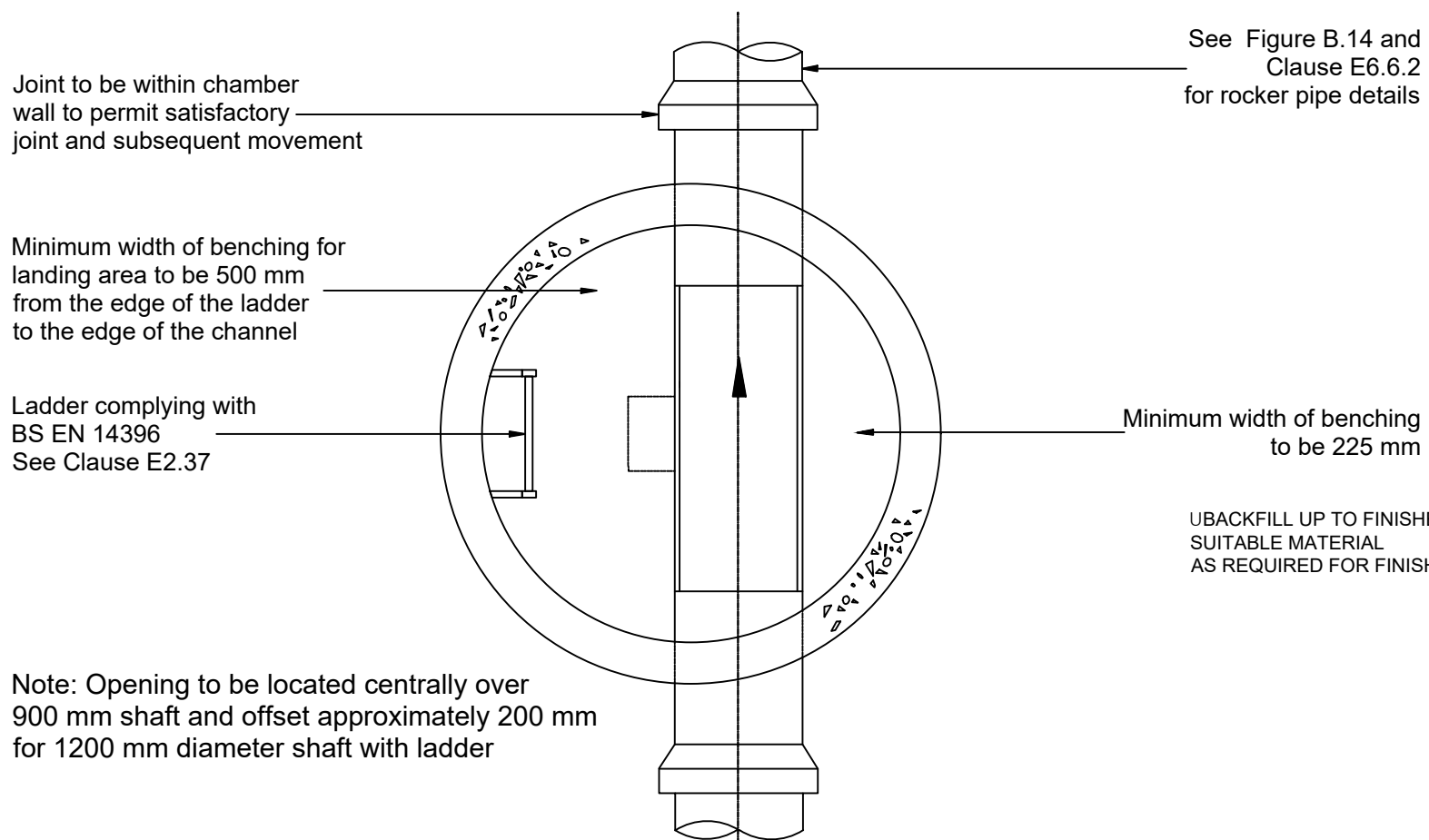


PLAN

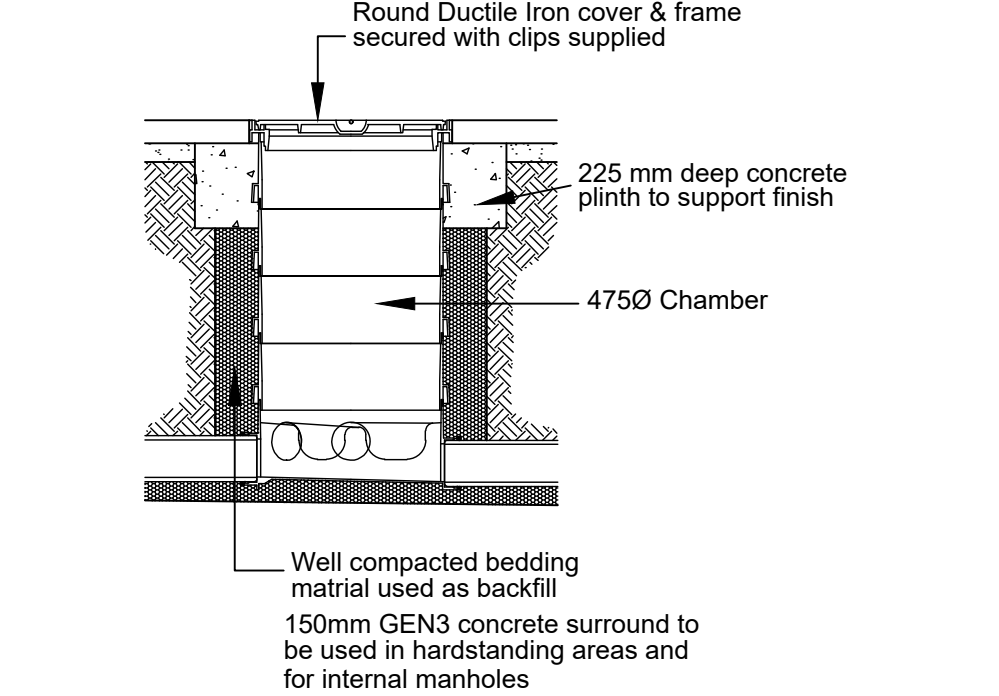
ADOPTABLE BRICKWORK MANHOLE DETAIL TYPE 4
Depth to soffit less than 1.0 m
Scale 1:20



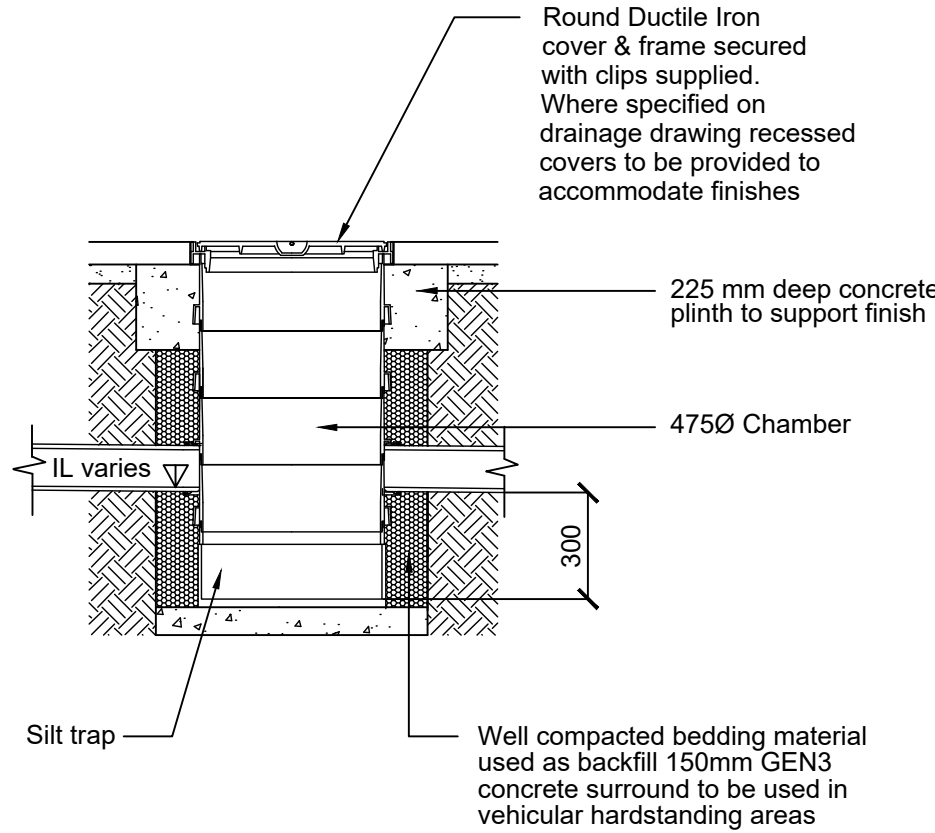
TYPICAL MANHOLE DETAIL - TYPE 1B
Depth from cover level to soffit of pipe 3 m to 6 m
Not to scale



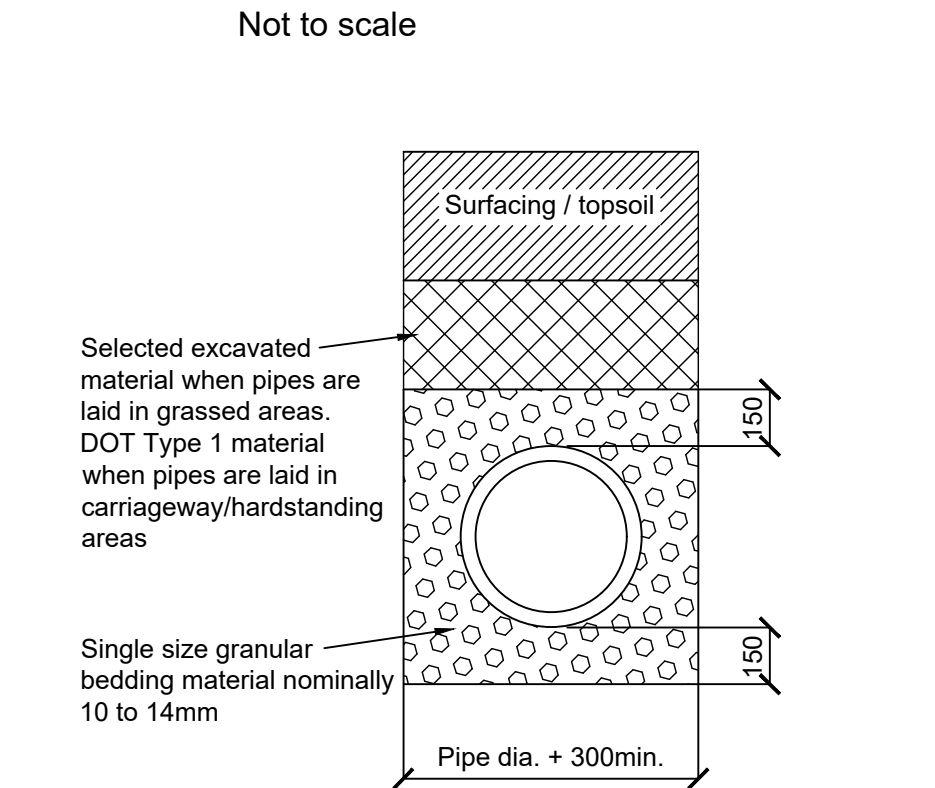
TYPICAL ATTENUATION TANK SECTION



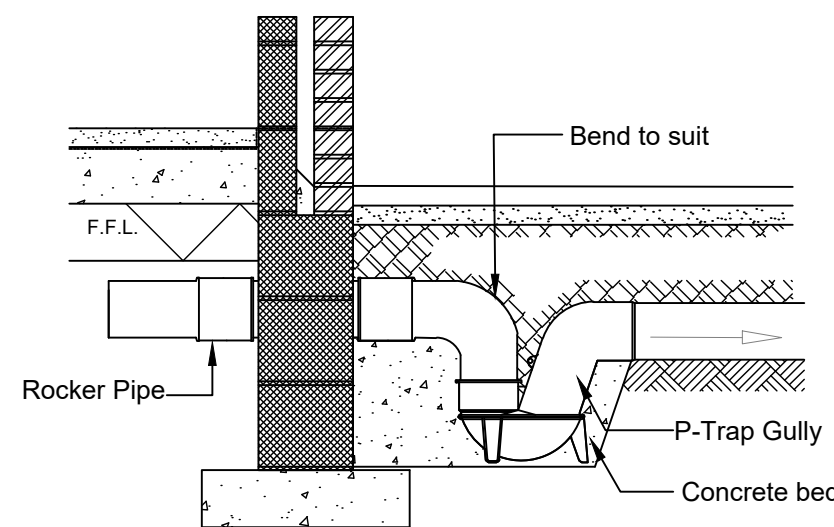
DETAILS OF 'UPVC' MANHOLES TYPE 3
(Hepworth PPIC inspection chamber)
(Max depth 1.2m)
Not to scale



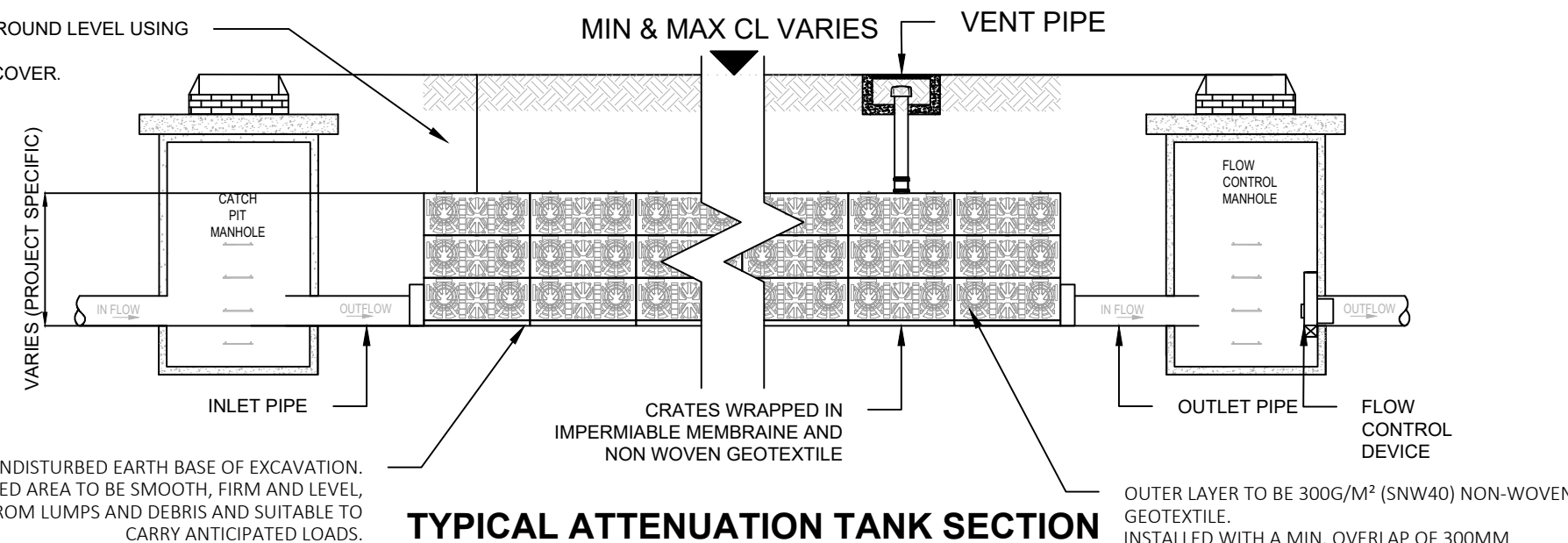
TYPICAL SILT TRAP ARRANGEMENT



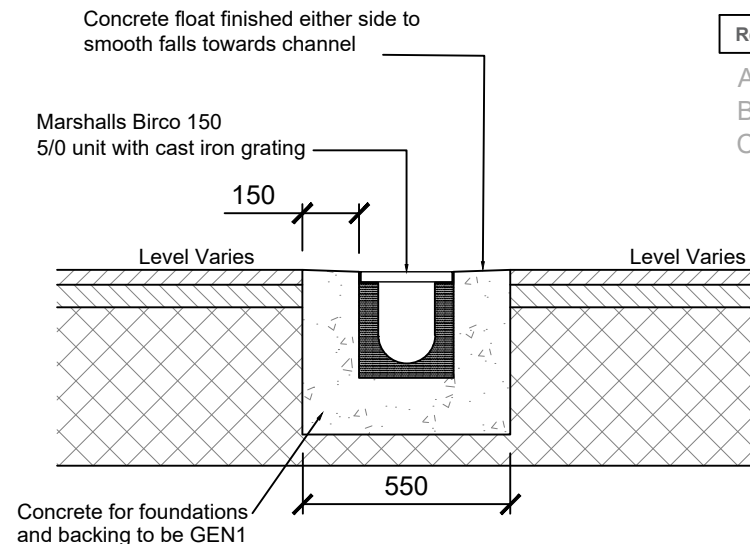
CLASS "S" PIPE BEDDING DETAIL
(Typical unless noted otherwise)
Scale 1:20



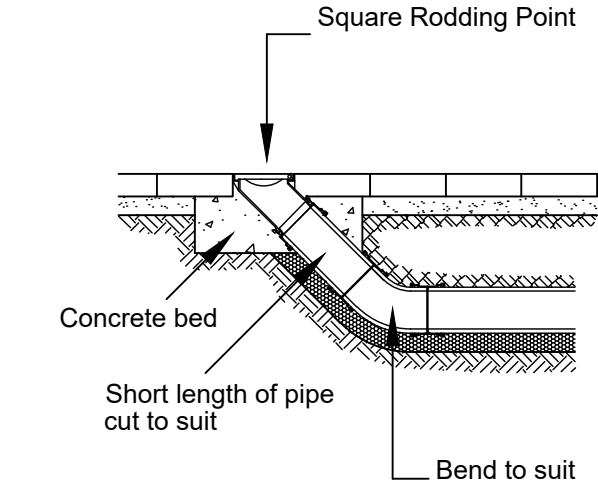
P-TRAP DETAIL



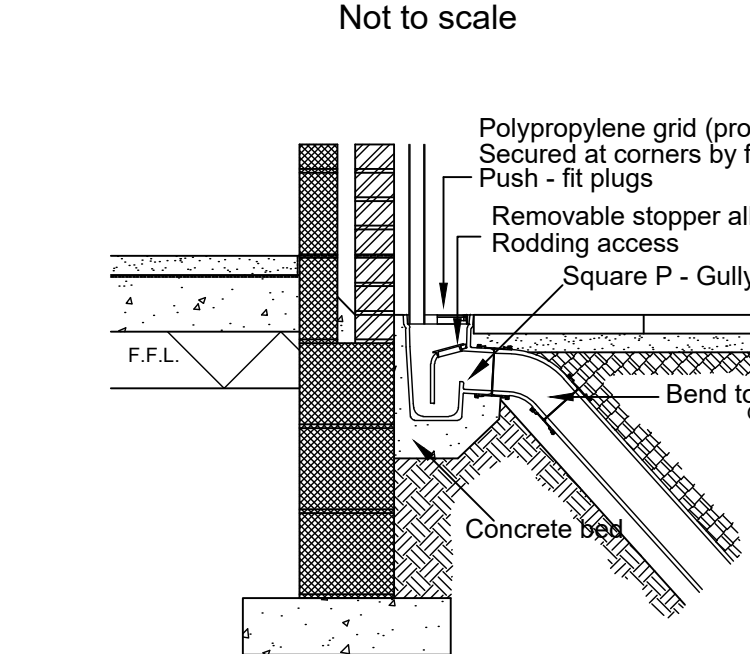
TYPICAL ATTENUATION TANK SECTION



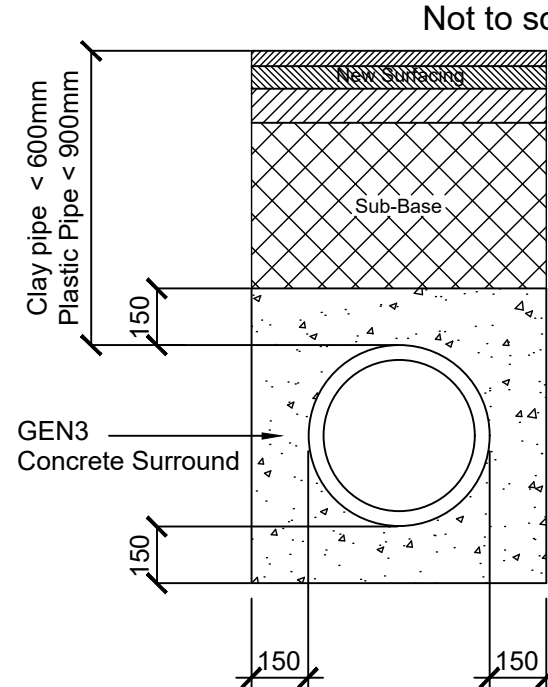
TYPICAL BIRCO 150 CHANNEL DETAIL



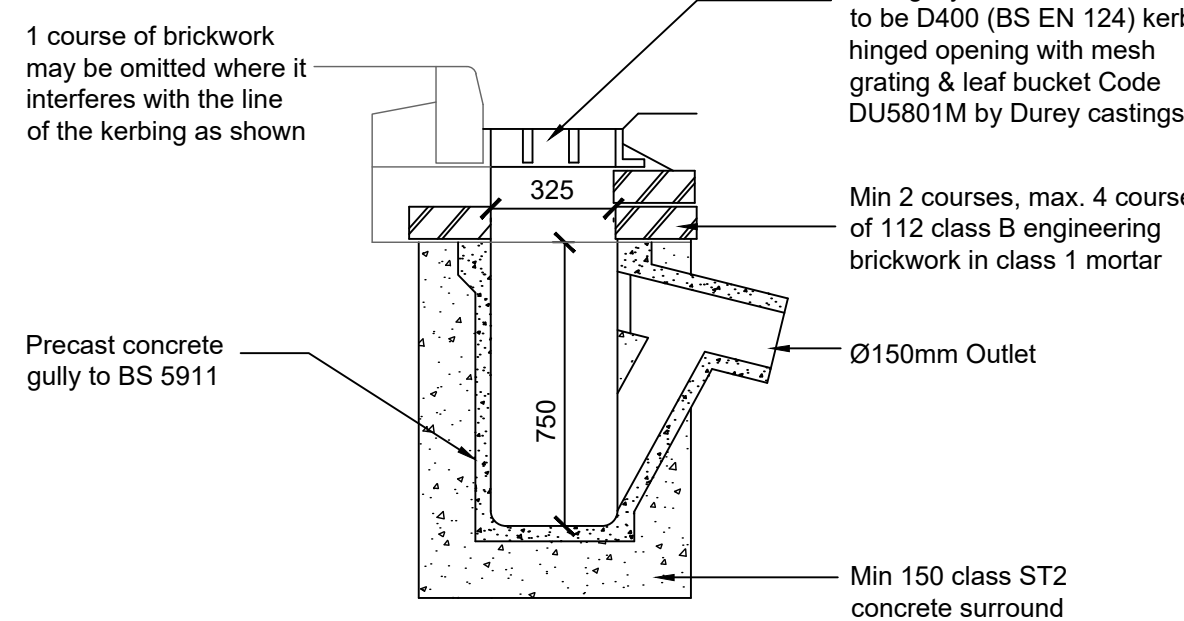
RODDING POINT DETAIL



BACK INLET GULLY DETAIL



CONCRETE SURROUND DETAIL
(HARDSTANDING AREAS)
("Flexcell" compressible board to be used at all pipe join locations)
Scale 1:20



TYPICAL PRECAST CONCRETE ROAD GULLY

Scale 1:20



Revision	Description	Author	Checker	Date
A	BBS 2021-REV A-SPECIFICATION ISSUE	O.C.	M.M	25.10.2021
B	BBS 2021-REV B-SPECIFICATION ISSUE	J.H	M.M	---
C	BBS 2021-REV C-SPECIFICATION ISSUE	J.H.	M.M	25.10.2021

Notes

The developer should take all necessary precautions to avoid causing any damage to, or interference with flow in existing sewers and shall ensure that debris, silt, mud etc. do not enter

Where works are to be carried out on sewers, the contractor must carry out their works in accordance with "The classification and management of confined spaces" published by Water UK. they must also comply with all other relevant health and safety legislation/ documentation.

All materials are to be stored in such a manner as to preserve their quality as to the standard specified in the specification. contaminants. All concrete to be produced on site must be mixed with only potable water, to ensure that it is clean from dirt.

Aggregates for concretes shall comply with the relevant provisions of BS EN 12620 and PD 6682-1.

Sands for mortar and grouts shall be washed sand, complying with BS EN 13139 and PD 6682-3. All other sands are to comply with BS EN 12620 and PD 6682-1 or BS EN 13139 and PD 6682-3.

Pulverised-fuel ash (PFA) for use as a component material in cementitious grout or non structural concrete shall comply with BS 3892-2 & 3.

Verified clay pipes and fittings for sewers shall have flexible mechanical joints. Pipes for foul sewers and surface water sewers shall comply with the relevant requirements of BS EN295 and BS65 (Surface water pipes only)

Pre-cast concrete manhole units of circular cross section for manholes, chambers and wet wells shall comply with the relevant provisions of BS EN 1917 and BS 5911-3.

Ladders for manholes in a vertical plane are to be mild steel and comply with BS4211, Class A and PD 970.

GRP ladders shall be manufactured in accordance with BS EN 131, and from glass-reinforced polyester using an appropriate resin for the ladder location. Unidirection reinforcement shall be provided in the GRP matrix to maximise strength.

All Manhole covers and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and Highways Agency guidance document HA 104/02. They shall be of a non-rocking design which do not rely on the use of cushion inserts. D400 Covers to be used in all carpark areas.

Clay bricks to be used within manholes are to be solid, Class B Engineering bricks complying to BS 3921.

All bricks shall be frost resistant category F.

Standard concrete mixes should be in accordance with BS EN 206-1 and BS 8500 and shall be used with a 20mm nominal maximum size of aggregate and a slump class of S2 for a target of 70mm.

GEN1 concrete to be used for, fillings, blindings, soft spots and drainage slumps.

GEN3 concrete to be used for, all other applications. U.N.O.

Admixtures (including calcium chloride and pigments) shall not be used in the production of concrete.

High strength concrete topping shall be produced, laid and finished in accordance with the relevant provisions of BS 8204: part 2 and the following approximate mix proportions shall be used: 1part cement, 1 part natural sand and 2 parts single-sized coarse aggregate.

All mortar mixes shall be in accordance with BS 5628-1:2005.

All pipes to be either extra strength VC to BS 65 or PVC to BS 4660 or BS 5481 "UPONOR ULTRARIB"

Gully grating and frame to be set 5mm below carriageway surface and flush with kerb face. Any gap to be filled with class 1 mortar

New gully covers and frame to be D400 (BS EN 124) kerb hinged opening with mesh grating & leaf bucket Code DU5801M by Durey castings

Min 2 courses, max. 4 courses of 112 class B engineering brickwork in class 1 mortar

Ø150mm Outlet

Min 150 class ST2 concrete surround

Project BBS 2021 Lidl Corporate Specification				
Drawing Title Typical Drainage Details				
Project No. LD (14)	Drawing No. SP - 06	Suitability SO	Revision 01	Scale at A1 AS INDICATED

This drawing is Copyright - Check all dimensions on site - Inform originator of any discrepancies - Work to figured dimensions only - Do not scale