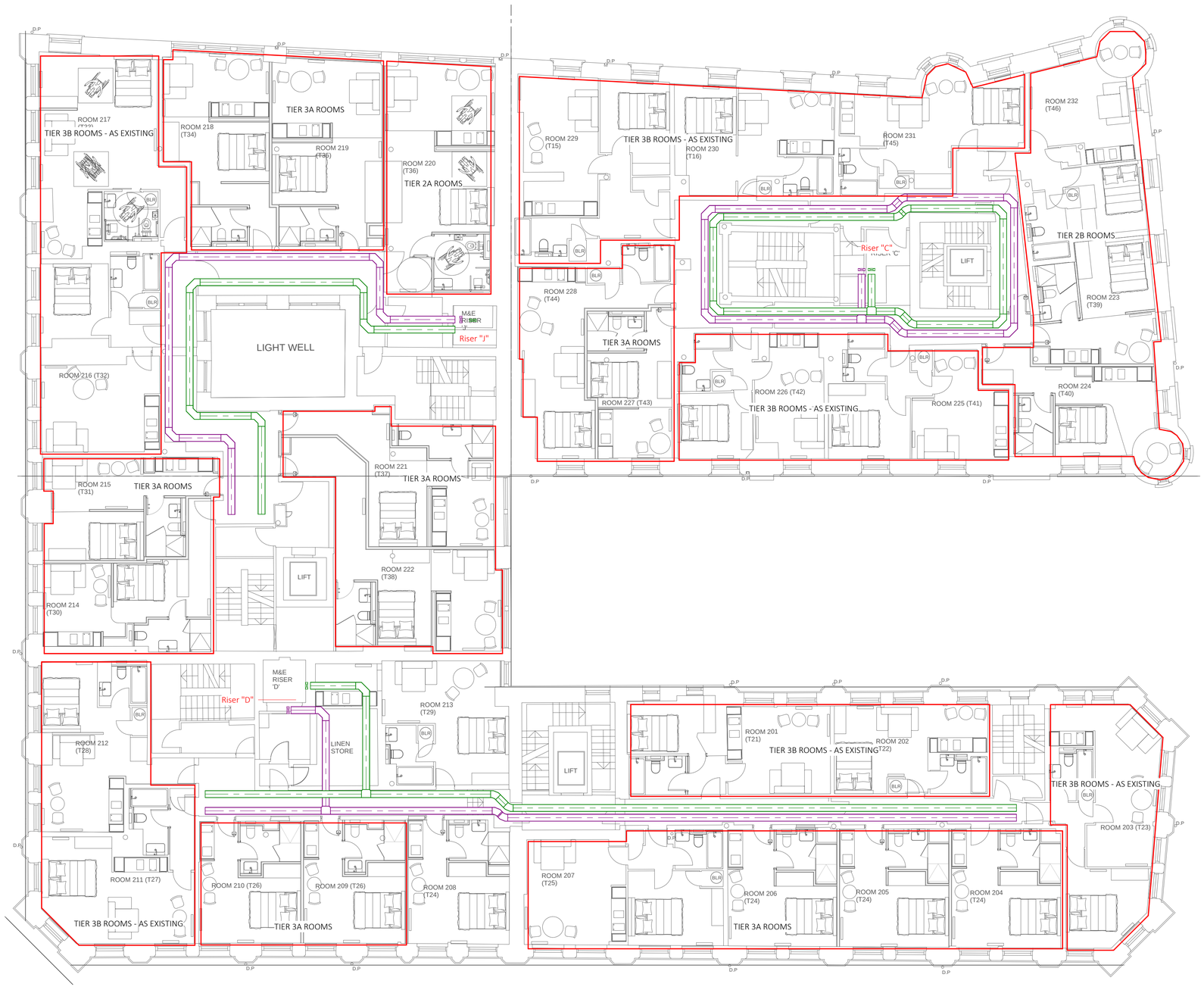
- CONTRACTOR TO PREPARE DETAIL WORKING DRAWINGS FOR APPROVAL SUBSEQUENT TO SITE SURVEY.
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- DIMENSIONS SHALL NOT BE SCALED & FIGURED.
- DIMENSIONS MUST BE VERIFIED ON SITE BEFORE WORK COMMENCES.

Symbol Legend

- Lighting Containment
- Power Containment
- Data Containment
- Fire Alarms Containment
- Security Containment

Drawing Specific Notes

1. Primary & secondary power cables to maintain a diverse route throughout the building.
2. Cables to be sufficiently fastened throughout the corridor runs to satisfy Building Control requirements.
3. Containment systems to be spaced in accordance with the requirements of BS:7671 AMD 3 & BS EN 50174.
4. This drawing outlines primary containment routes only. Contractor to allow for all secondary & final containment in accordance with the specification.
5. Existing services are subject to validation survey.



1 Typical Floor Electrical - Containment Services
1 : 100



1:100 @A1 (2m, 4m, 6m, 8m, 10m)

Rev	Revision	Date
1	Stage 3 Issue	04.09.2017

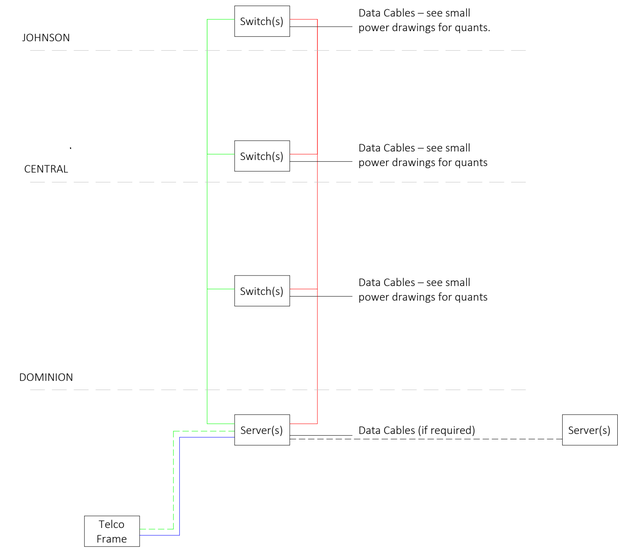
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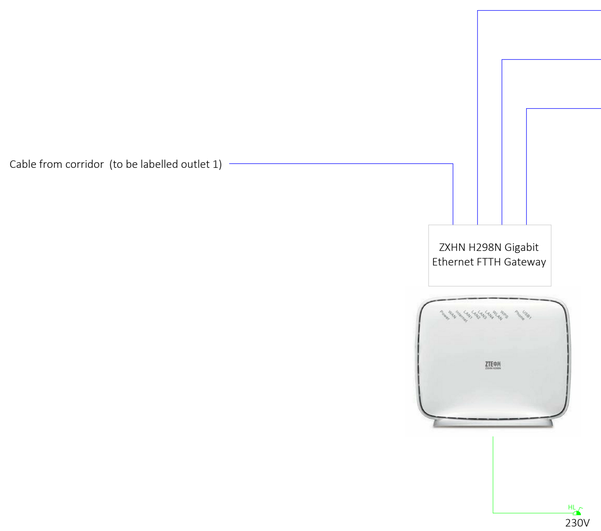
PROJECT: Whitworth Locke Manchester

TITLE: Typical Floor Electrical - Containment Services

DRAWING No.	SCALE (@A1)	Project Ref:
ELTTYP_020	1 : 100	16080

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Symbol Legend

- Primary voice & data – 12 Cores OM4 fibre & 20pr CW1308
- Secondary data – 12 Cores OM4 fibre
- Horizontal data cables – Cat 6A (Multiple)
- Cabinet interlink data cables – Cat 6A (5 x 24)
- 50pr CW1308
- Incoming Voice & data links from TSP by others
- TV — TV Data Point
- Ph — Phone Data Point
- Data Cable

Drawing Specific Notes

1. Where a desk is present and no living room, Outlet 2 to be cabled to RJ45 socket on desk.

Rev	Revision	Date
1	Stage 3 Issue	04.09.2017

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PROJECT
Whitworth Locke Manchester

TITLE
IT Services Schematic

DRAWING No.	SCALE (@A1)	Project Ref:
ESI_039	1 : 100	16080

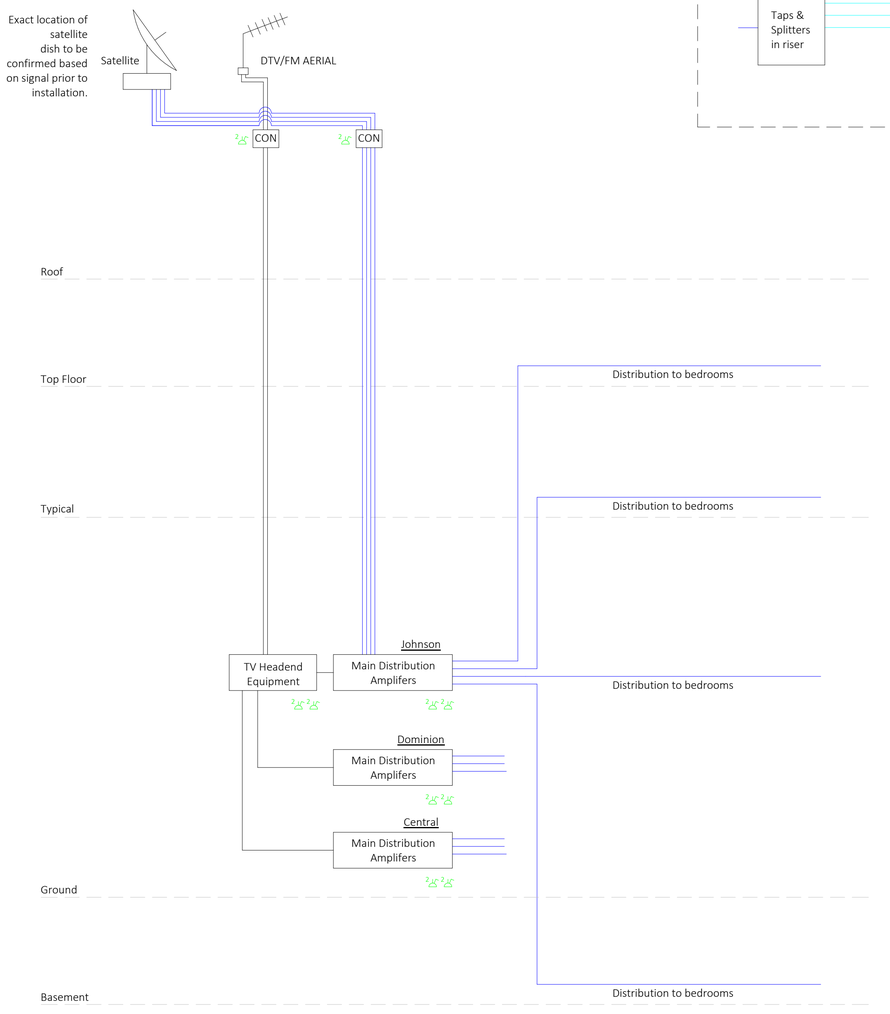
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Symbol Legend

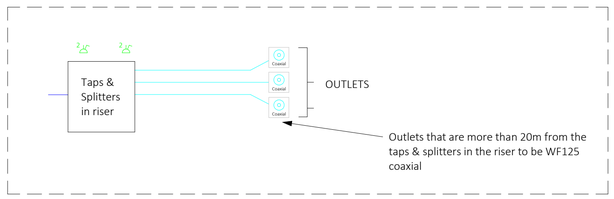
- WF100 Coaxial
- WF165 Coaxial
- CON — Signal Connection Rig with DSSO
- Twin Switched Socket Outlet
- Single Switched Socket Outlet

Drawing Specific Notes

1. All cabling to be LSOH.
2. All items to be bonded to L.P.S as required.



TYPICAL FLOOR DETAIL



TYPICAL ROOM DETAIL



Rev	Revision	Date
1	Stage 3 Issue	04.09.2017

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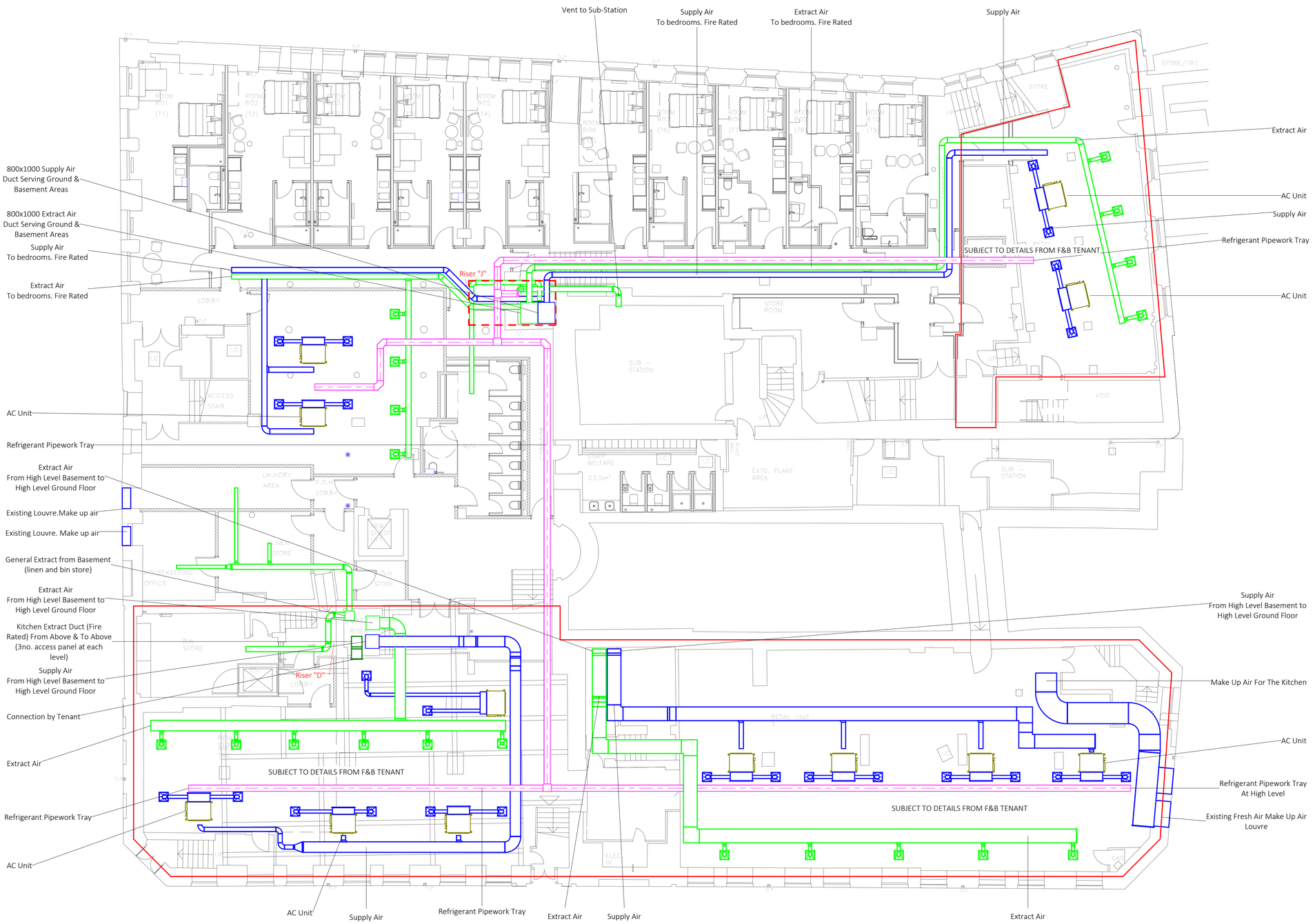
TITLE
Audio Visual Services

DRAWING No.	SCALE (@A1)	Project Ref:
ESJ_040	1 : 100	16080

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Drawing Specific Notes

1. Ventilation ductwork passing within escape routes to be fire rated in accordance with Building Regulations Approved Document B.
2. Fire/smoke dampers to be provided in accordance with the fire strategy and Building Control requirements.
3. Access doors to be provided at each fire/smoke damper and VCD & as required for cleaning by TR/19.
4. All ductwork branches & main ductwork connections are to be balanced using local VCDs.
5. Fan & ductwork noise attenuation is subject to accoustic consultant's requirements and the specialist contractor's detailed design.
6. Services layout is to be further co-ordinated with structural engineer & Architect.
7. For areas deemed to require supplementary heating via electric panel heaters, liase with the Electrical Contractor for provision of fused connection units.
8. Condensate from each AC unit to be routed via gravity and connect to nearest SVP with an inline HepVO waterless trap.
9. No condensate pumps are to be used unless approved by the EA.
10. Positioning of BC boxes at Ground Floor to be dependant on length of runs to outdoor units.
11. Allow for all motorised smoke dampers to be connected to a monitoring panel.
12. Services layout indicative only and subject to further coordination following strip-out works.
13. All ground and basement guest rooms to be ventilated via central AHU.



Rev	Revision	Date
1	Stage 3 Issue	04.09.2017

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PROJECT
Whitworth Locke Manchester

TITLE
Basement Mechanical - AC and Ventilation Services

DRAWING No.	SCALE (@A1)	Project Ref:
MLAV000_024	1 : 100	16080

1:100 @A1

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Supply Air
To bedrooms. Fire rated

Extract Air
From bedrooms. Fire rated

Extract Air
Duct Serving Ground & Basement Areas

Supply Air
Duct Serving Ground & Basement Areas

0269kW (U25) Gas Meter
(Redundant)

Dry Riser Inlet

Dry Riser Landing Valve

Air Curtain

Air Curtain

Existing Fresh Air Make Up Air Louver

Make Up Air for Kitchen

Kitchen Extract Connection by Tenant

Refrigeration Tray at H/L to Serve F&B, and Co-Working Entrance Link Areas

Extract Air

AC Unit

Dry Riser Inlet

Dry Riser Landing Valve

Supply Air

General Extract from Basement (linen and bin store)

Extract Air
From High Level Basement to High Level Ground Floor

Kitchen Extract Duct (Fire Rated) From Above & To Above (3no. access panel at each level)

Supply Air
From High Level Basement to High Level Ground Floor

Extract Air

Refrigeration Tray at H/L to Serve F&B, and Co-Working Entrance Link Areas

AC Unit

Supply Air

SUBJECT TO DETAILED GA PLANS

SUBJECT TO DETAILS FROM F/B TENANT

SUBJECT TO DETAILS FROM F/B TENANT

Supply Air

Riser "J"

1 CPE0001

1 CPE0001

ROOM 002 (T11)
ROOM 003 (T12)
ROOM 004 (T13)
ROOM 005 (T13)
ROOM 006 (T14)
ROOM 009 (T15)
ROOM 010 (T16)
ROOM 011 (T17)
ROOM 012 (T18)
ROOM 008 (T20)
ROOM 007 (T19)
POTTED GARDEN
LINEN STORE
LIFT MOTOR ROOM
PLANT
ELEC METERS
LAUNDRY ROOM
ATRIUM ENTRANCE
STORE
CHAIRS
NEW B.O.H./ GOODS LIFT

Drawing Specific Notes

1. Ventilation ductwork passing within escape routes to be fire rated in accordance with Building Regulations Approved Document B.
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11. Allow for all motorised smoke dampers to be connected to a monitoring panel.
12. Services layout indicative only and subject to further coordination following strip-out works.
13. All ground and basement guest rooms to be ventilated via central AHU.

N

1:100 @A1
0 2m 4m 6m 8m 10m

Rev	Revision	Date
1	Stage 3 Issue	04.09.2017

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PROJECT
Whitworth Locke Manchester

TITLE
Ground Floor Mechanical - AC and Ventilation Services

DRAWING No.	SCALE (@A1)	Project Ref:
MLAV00_025	1 : 100	16080

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Drawing Specific Notes

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2. Fire/smoke dampers to be provided in accordance with the fire strategy and Building Control requirements.
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Rev	Revison	Date
1	Stage 3 Issue	04.09.2017

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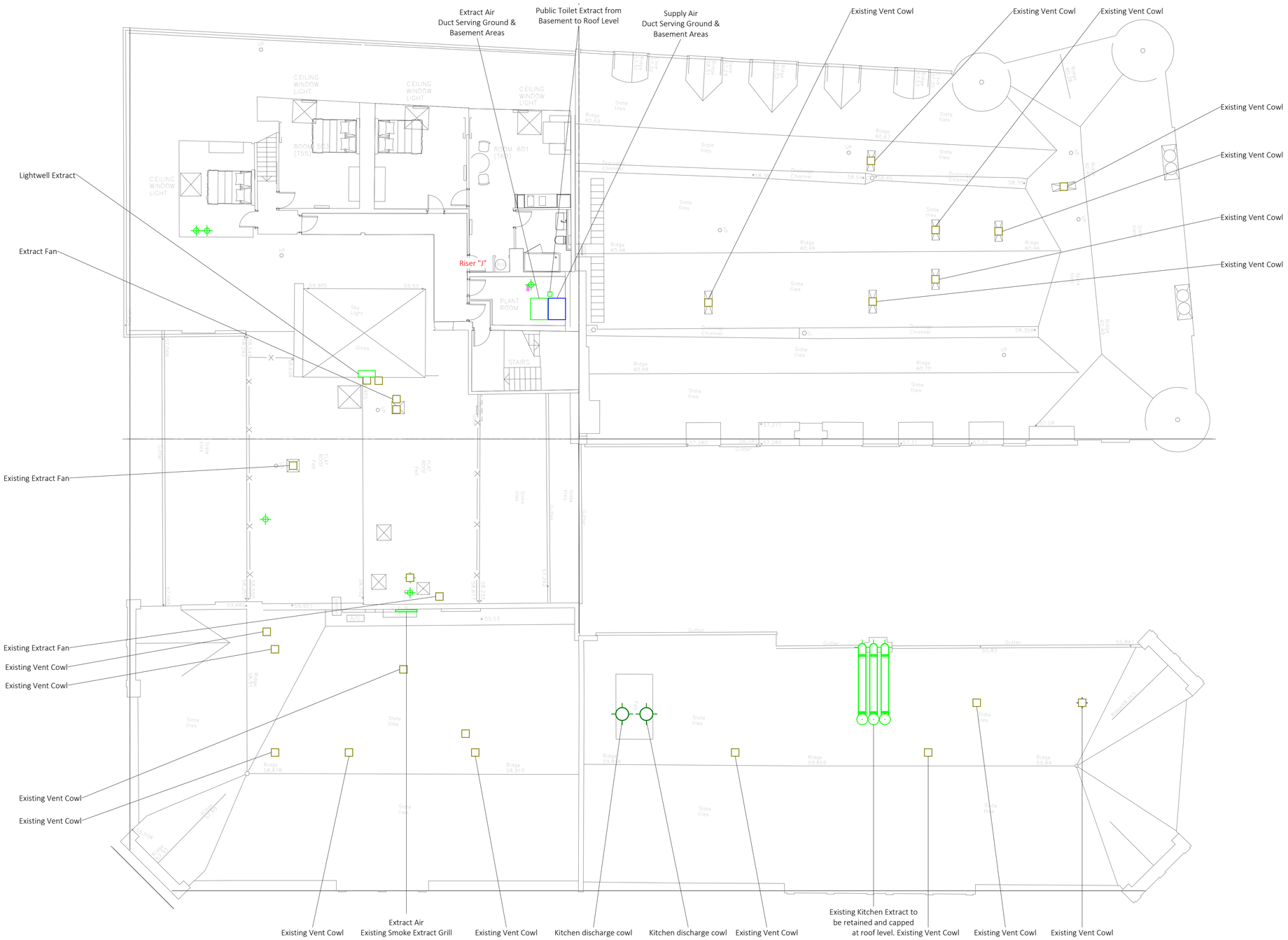
PROJECT
Whitworth Locke Manchester

TITLE
Fifth Floor Mechanical - AC and Ventilation Services

DRAWING No.	SCALE (@A1)	Project Ref:
MLAV05_027	1 : 100	16080

1:100 @A1

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Drawing Specific Notes

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2. Fire/smoke dampers to be provided in accordance with the fire strategy and Building Control requirements.
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13. All ground and basement guest rooms to be ventilated via central AHU.

Rev	Revision	Date
1	Stage 3 Issue	04.09.2017

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PROJECT
Whitworth Locke Manchester

TITLE
Sixth Floor Mechanical - AC and Ventilation Services

DRAWING No.	SCALE (@A1)	Project Ref:
MLAV06_028	1 : 100	16080

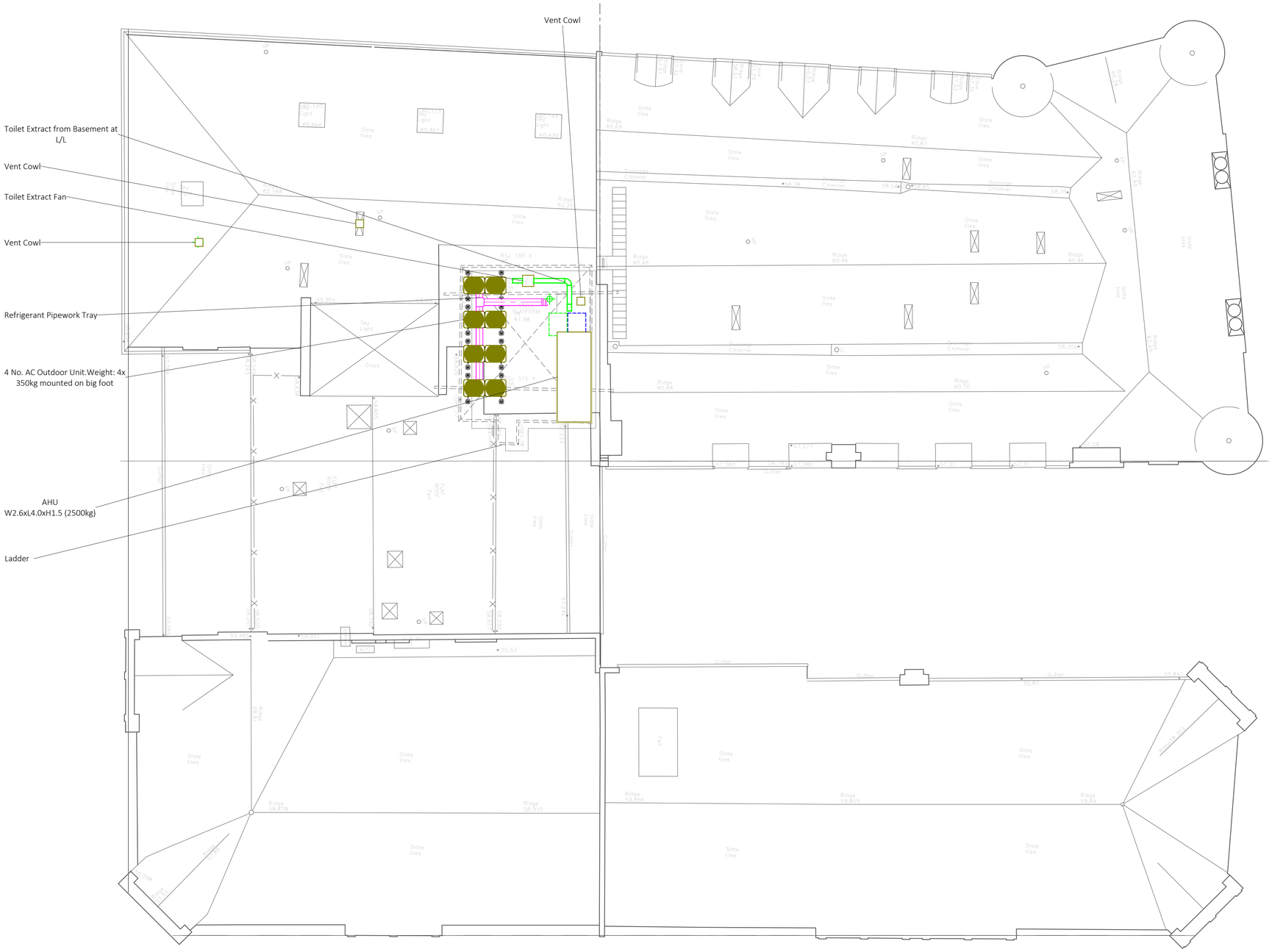
N

1:100 @A1 | 2m | 4m | 6m | 8m | 10m

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Drawing Specific Notes

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2. Fire/smoke dampers to be provided in accordance with the fire strategy and Building Control requirements.
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1:100 @A1 — 2m | 4m | 6m | 8m | 10m

Rev	Revision	Date
1	Stage 3 Issue	04.09.2017

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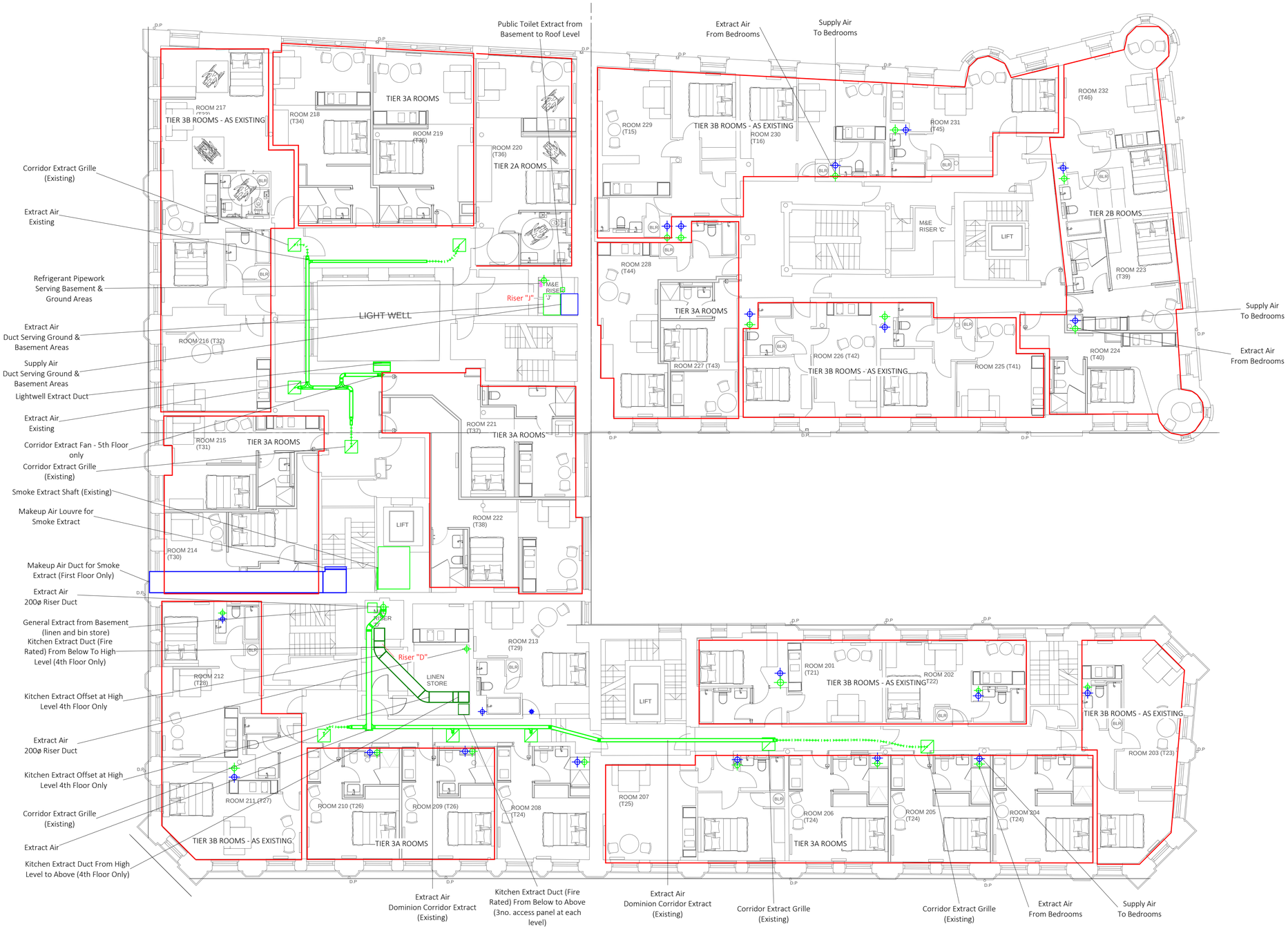
TITLE
Seventh Floor (Roof) Mechanical - AC and Ventilation Services

DRAWING No.	SCALE (@A1)	Project Ref:
MLAV07_029	1 : 100	16080

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Drawing Specific Notes

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11. Allow for all motorised smoke dampers to be connected to a monitoring panel.
12. Services layout indicative only and subject to further coordination following strip-out works.
13. All ground and basement guest rooms to be ventilated via central AHU.



Rev	Revision	Date
1	Stage 3 Issue	04.09.2017

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PROJECT
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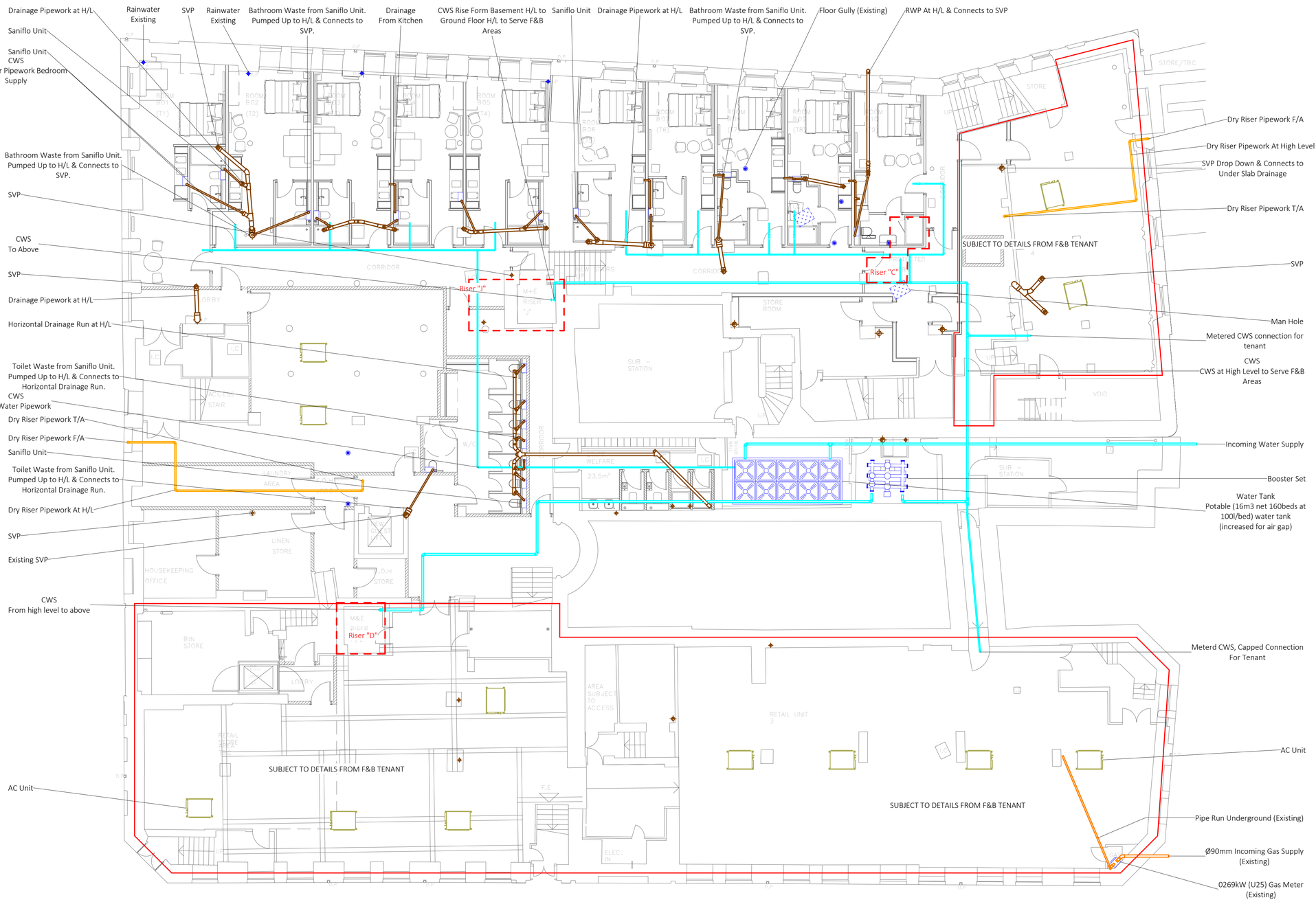
TITLE
Typical Floor Mechanical - AC and Ventilation Services

DRAWING No.	SCALE (@A1)	Project Ref:
MLAVTYP_026	1 : 100	16080

1:100 @A1

- CONTRACTOR TO PREPARE DETAIL WORKING DRAWINGS FOR APPROVAL SUBSEQUENT TO SITE SURVEY.
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Drainage Pipework at H/L
Saniflo Unit
Saniflo Unit
CWS
Cold Water Pipework Bedroom Supply
Rainwater Existing
SVP
Rainwater Existing
Bathroom Waste from Saniflo Unit. Pumped Up to H/L & Connects to SVP.
Drainage From Kitchen
CWS Rise Form Basement H/L to Ground Floor H/L to Serve F&B Areas
Saniflo Unit
Drainage Pipework at H/L
Bathroom Waste from Saniflo Unit. Pumped Up to H/L & Connects to SVP.
Floor Gully (Existing)
RWP At H/L & Connects to SVP
Bathroom Waste from Saniflo Unit. Pumped Up to H/L & Connects to SVP.
SVP
CWS
To Above
SVP
Drainage Pipework at H/L
Horizontal Drainage Run at H/L
Toilet Waste from Saniflo Unit. Pumped Up to H/L & Connects to Horizontal Drainage Run.
CWS
Cold Water Pipework
Dry Riser Pipework T/A
Dry Riser Pipework F/A
Saniflo Unit
Toilet Waste from Saniflo Unit. Pumped Up to H/L & Connects to Horizontal Drainage Run.
Dry Riser Pipework At H/L
SVP
Existing SVP
CWS
From high level to above
AC Unit
Dry Riser Pipework F/A
Dry Riser Pipework At High Level
SVP Drop Down & Connects to Under Slab Drainage
Dry Riser Pipework T/A
SUBJECT TO DETAILS FROM F&B TENANT
SVP
Man Hole
Metered CWS connection for tenant
CWS
CWS at High Level to Serve F&B Areas
Incoming Water Supply
Booster Set
Water Tank
Potable (16m3 net 160beds at 100l/bed) water tank
(increased for air gap)
Meterd CWS, Capped Connection For Tenant
AC Unit
Pipe Run Underground (Existing)
Ø90mm Incoming Gas Supply (Existing)
0269kW (U25) Gas Meter (Existing)
SUBJECT TO DETAILS FROM F&B TENANT
SUBJECT TO DETAILS FROM F&B TENANT
Riser "I"
Riser "C"
Riser "D"



Drawing Specific Notes

1. All point of use equipment to be provided with accessible lever handle isolation valves.
2. All pipework expansion equipment to be designed, provided and installed by the contractor in strict accordance with the manufacturer's recommendations.
3. All vertical and horizontal pipework to be supported by the manufacturer's recommended pipe supports.
4. All below ground drainage by others.
5. Drainage systems to be installed in accordance with Building Regulations Approved Document H.
6. Access doors and/or rodding eyes to be provided for all changes of direction & junctions. Rodding eyes to be provided at the bottom of all SVP stacks where they run through 90°.
7. Access doors to be provided at approximately 1.2m above FFL and where changes of direction take place.
8. All AAVs to be fitted minimum of 500mm above the spill level of all sanitary items on the stack.
9. SVP's to terminate a minimum of 900mm above any opening within 3 metres.
10. Fire collars to be provided to all SVPs passing through fire compartments.
11. Ground floor appliances to be provided with a separate SVP in accordance with Building Regulations Part H.
12. Drainage connections are subject to survey
13. Existing services are subject to validation survey
14. Services layout indicative only and subject to further coordination following strip-out works.
15. CWS pipework isolation strategy TBC. Allow for 3 tier isolation:
    - each bedroom
    - each floor
    - each Riser

N

1:100 @A1 — 2m — 4m — 6m — 8m — 10m

Rev	Revision	Date
1	Stage 3 Issue	04.09.2017

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PROJECT: Whitworth Locke Manchester

TITLE: Basement Plumbing - All Plumbing Services

DRAWING No.	SCALE (@A1)	Project Ref:
PLODG000_030	1 : 100	16080