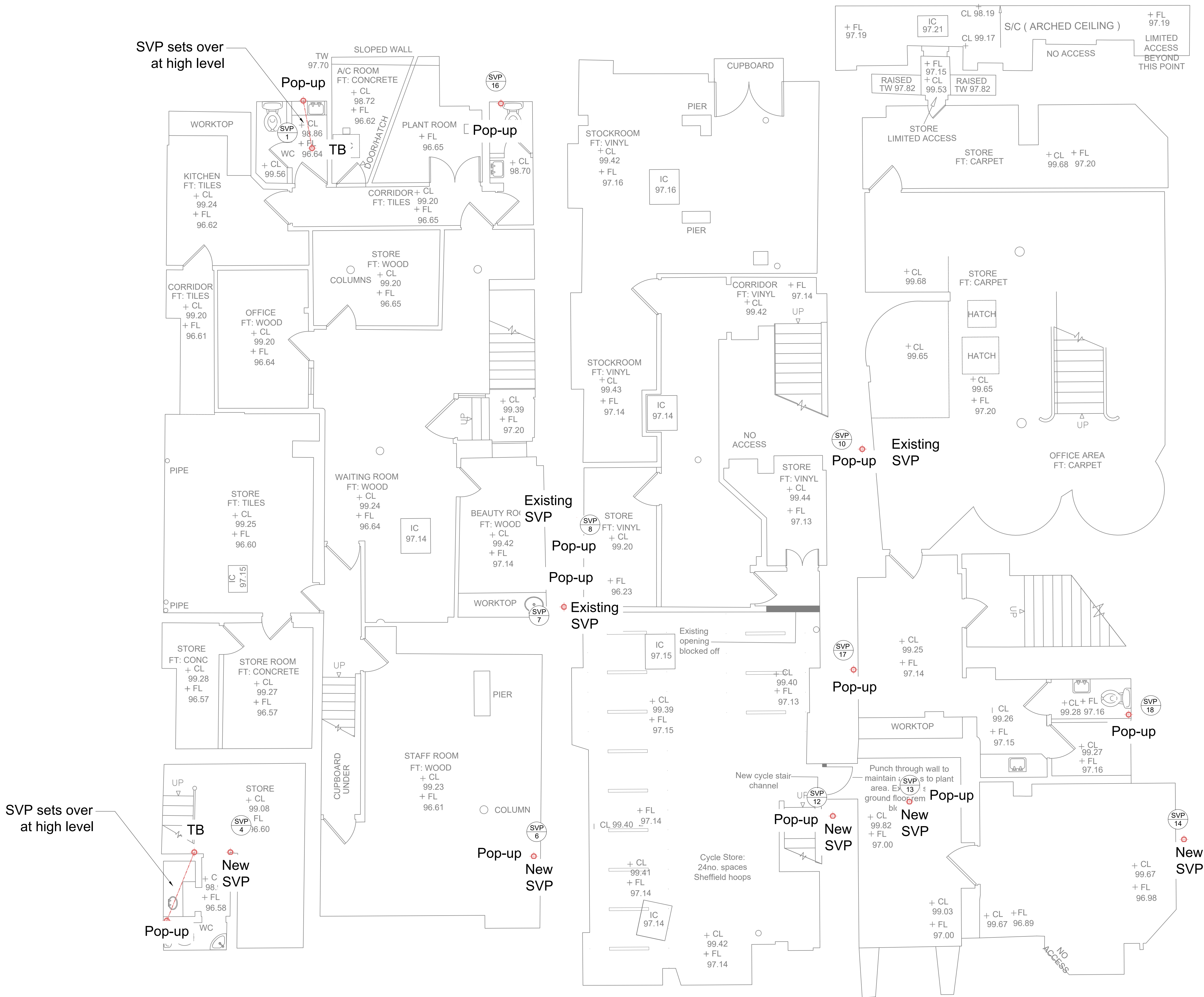
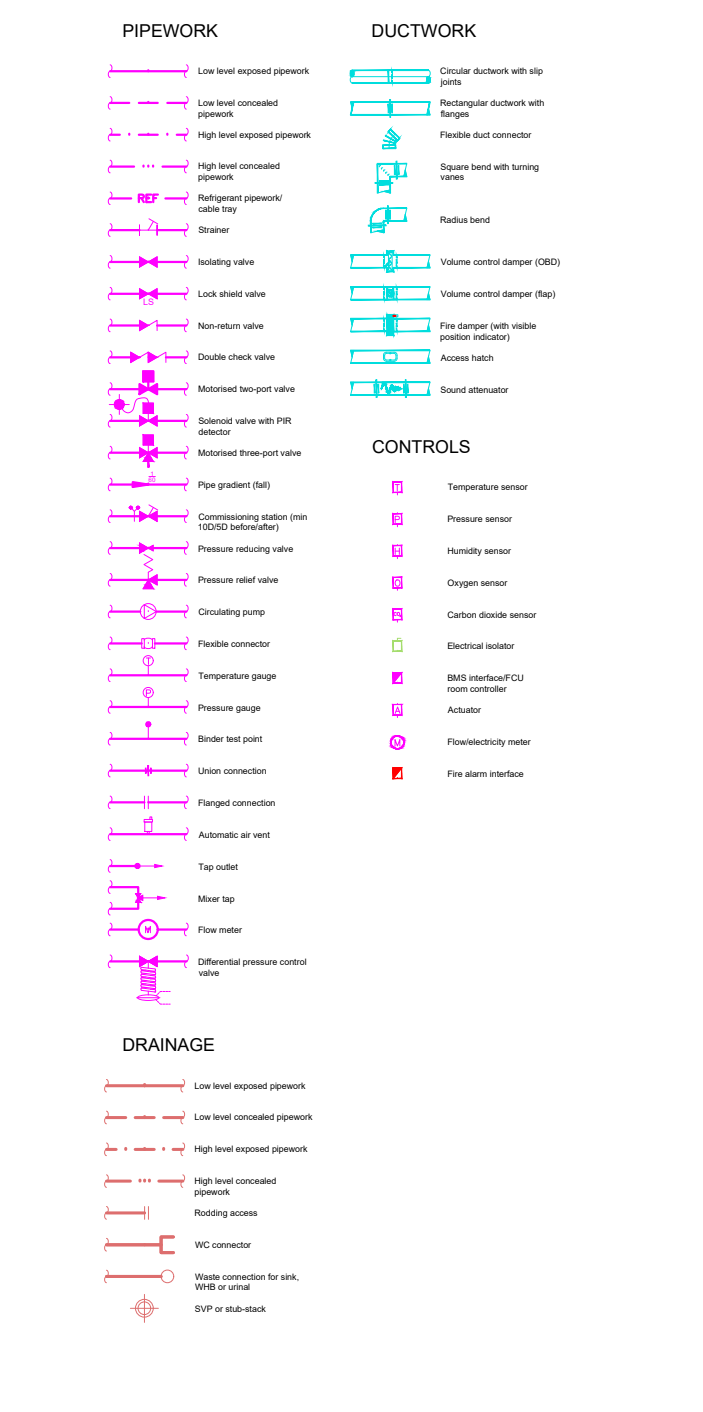




- NOTES
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 10. 140 l electric hot water cylinders within the airing cupboard
 11. 3kW electric heater serving the kitchen sink
 12. Mechanical ventilation unit with heat recovery (MHR) mounted in the ceiling void supplies air to habitable rooms and extracts from wet rooms and kitchens



PETERSHAY

EDINBURGH MANCHESTER
Scale 1:4 Planning, Design, Construction, Refurbishment, Renovation, Maintenance, etc.
+44(0) 161 759 7595 +44(0) 161 759 7595

Drawn by: AP
Reviewed by: JH
Drawn date: December 2020
Scale: 1:50 @A0
Client: DTZI
PHL Project number: 1176
Project title: 58-64 King Street Manchester
Drawing title: Drainage - basement
Drawing number: 1176-PHL-KS-1-DR-P-101

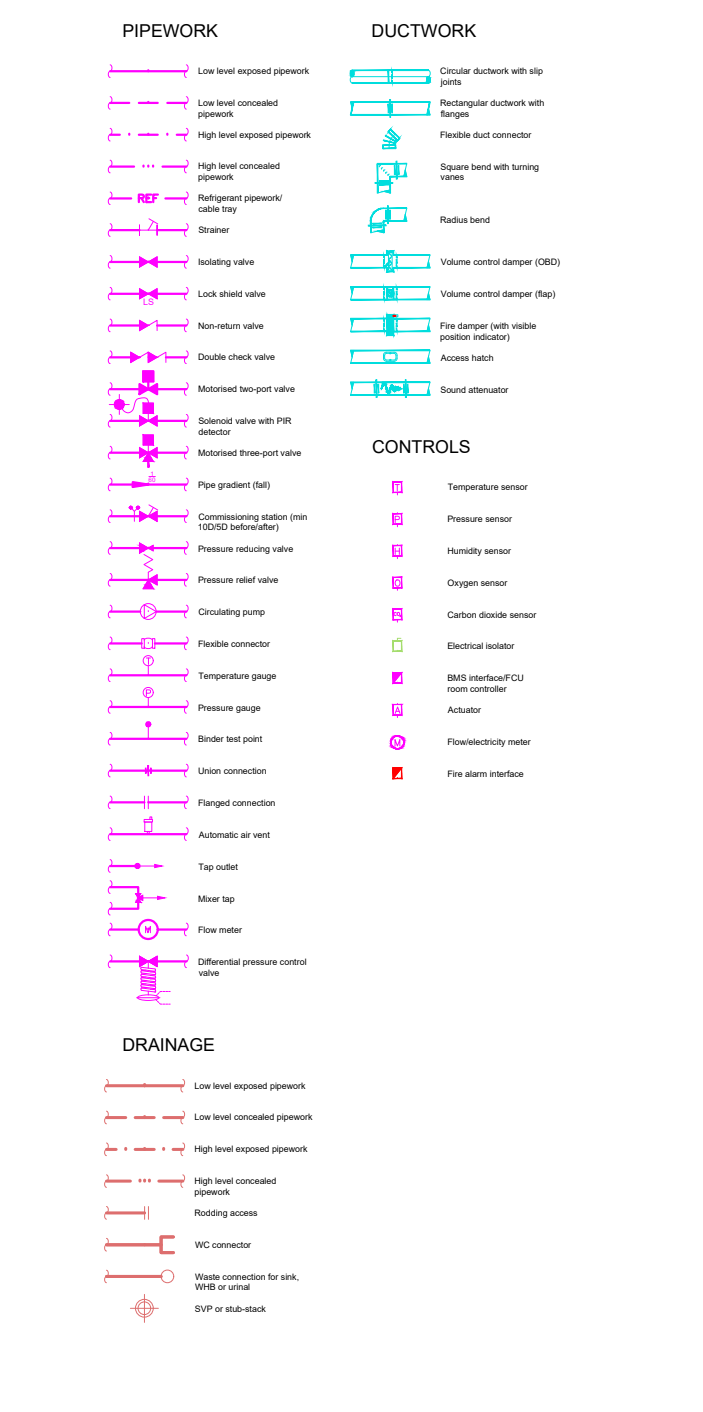
Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP



Existing SVPs to be replaced in the same locations to serve the nearby fittings. These SVPs pass through the ground floor retail units

New SVPs to be installed to suit the new bathrooms and kitchens and to rise from the basement up to roof level. Invasive work within the ground floor retail units will be needed to install these SVPs

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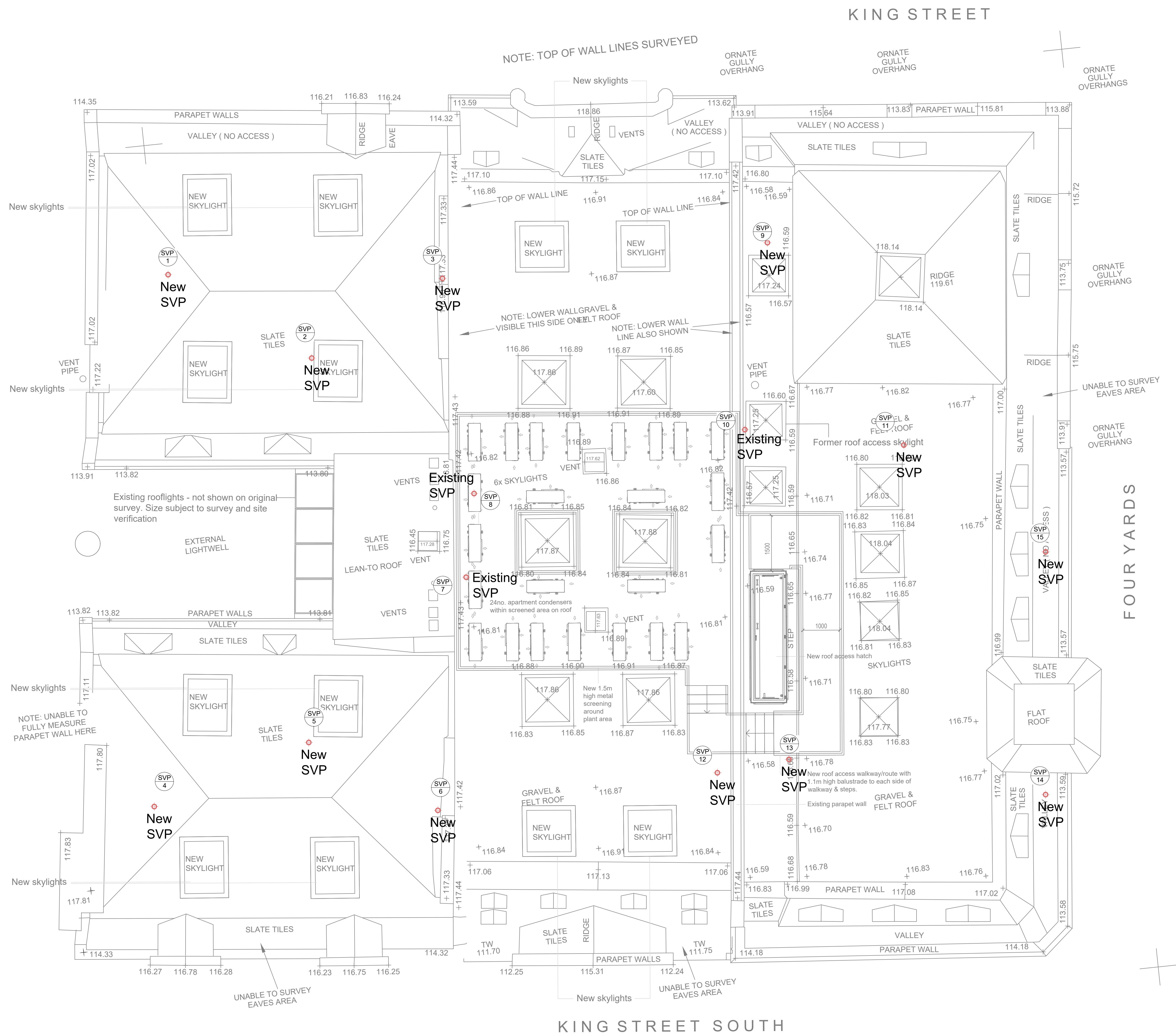


PETERSHAY

EDINBURGH MANCHESTER
Scale 1:4 Planning Route 7 Junction Lane
Planning Road Davenport
Stockport
+44(0) 789 751965 +44(0) 7500 908333

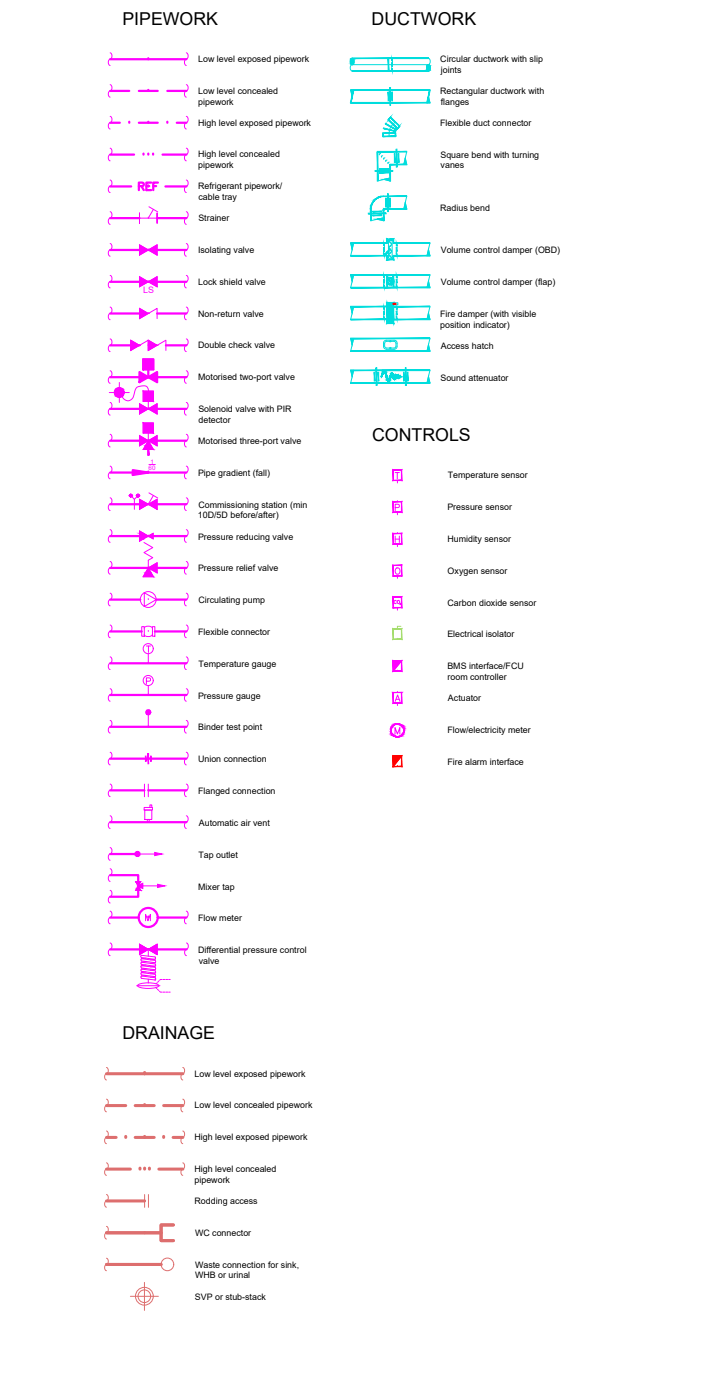
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Reviewed by: JH
Drawn date: December 2020
Scale: 1:50 @A0
Client: DTZI
PHL Project number: 1176
Project title: 58-64 King Street
Manchester
Drawing title: Drainage - 1st floor
Drawing number: 1176-PHL-KS-1-DR-P-103

Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP



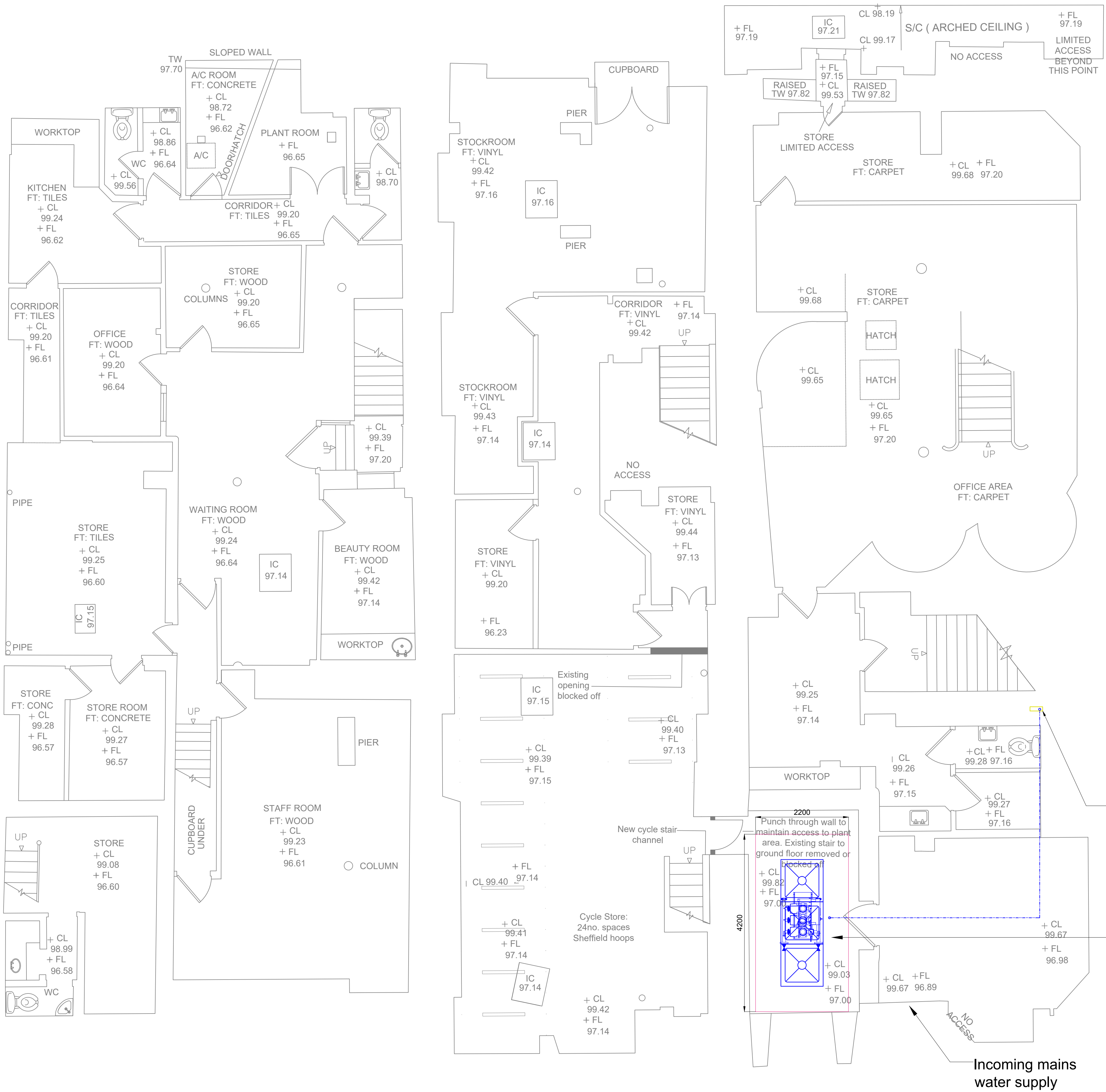
Approximate locations of existing and new SVP roof terminals

- NOTES
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 10. 140l electric hot water cylinders within the airing cupboard
 11. 3kW electric heater serving the kitchen sink
 12. Mechanical ventilation unit with heat recovery (MHR) mounted in the ceiling void supplies air to habitable rooms and extracts from wet rooms and kitchens



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Reviewed by: JH
Drawn date: December 2020
Scale: 1:50 @A0
Client: DTZI
PHL Project number: 1176
Project title: 58-64 King Street Manchester
Drawing title: Drainage - roof
Drawing number: 1176-PHL-KS-1-DR-P-108

Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP

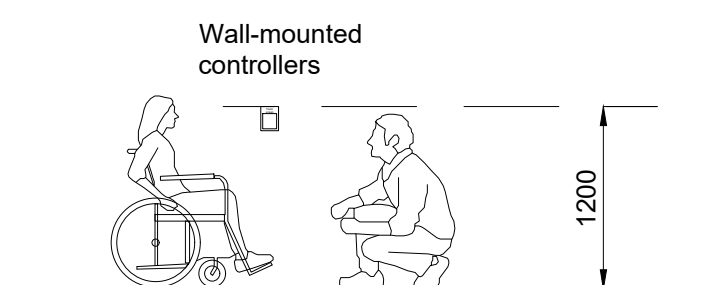


Boosted main rises to above to serve the apartments and their sprinklers

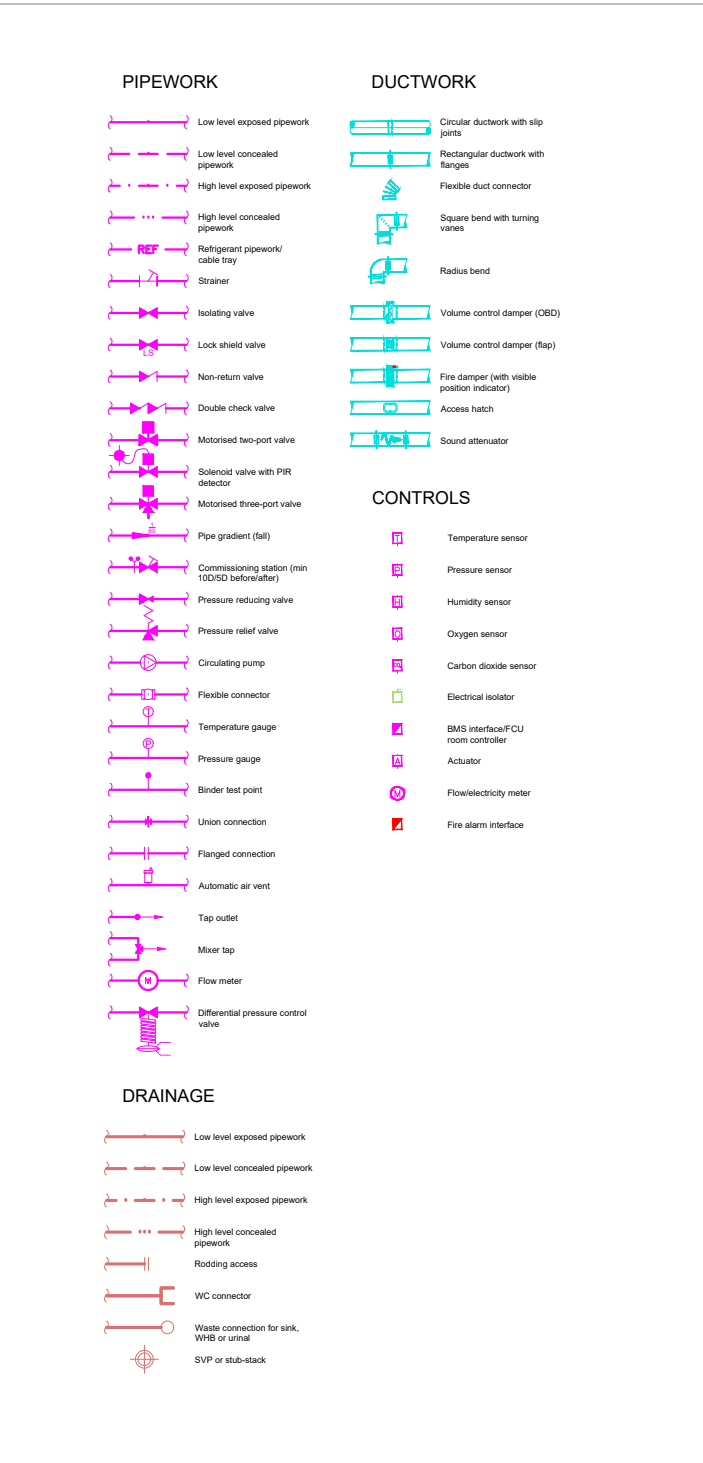
Break tank with mains water booster mounted beneath; 4,000 l with headroom of 2,500mm

Incoming mains water supply

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 5. Wall mounted controllers to be positioned for wheelchair users



6. Electric water heaters to be supplied and fitted with manufacturer's unvented mains connection kit including expansion vessels and safety valves
7. Bath and shower rooms to have electric towel rails shown thus **Towel rail**
8. All sanitary fittings to have local isolation valves
9. Bedrooms and living rooms to have heat pump units
10. 140 l electric hot water cylinders within the airing cupboard
11. 3kW electric heater serving the kitchen sink
12. Mechanical ventilation unit with heat recovery (MHR) mounted in the ceiling void supplies air to habitable rooms and extracts from wet rooms and kitchens

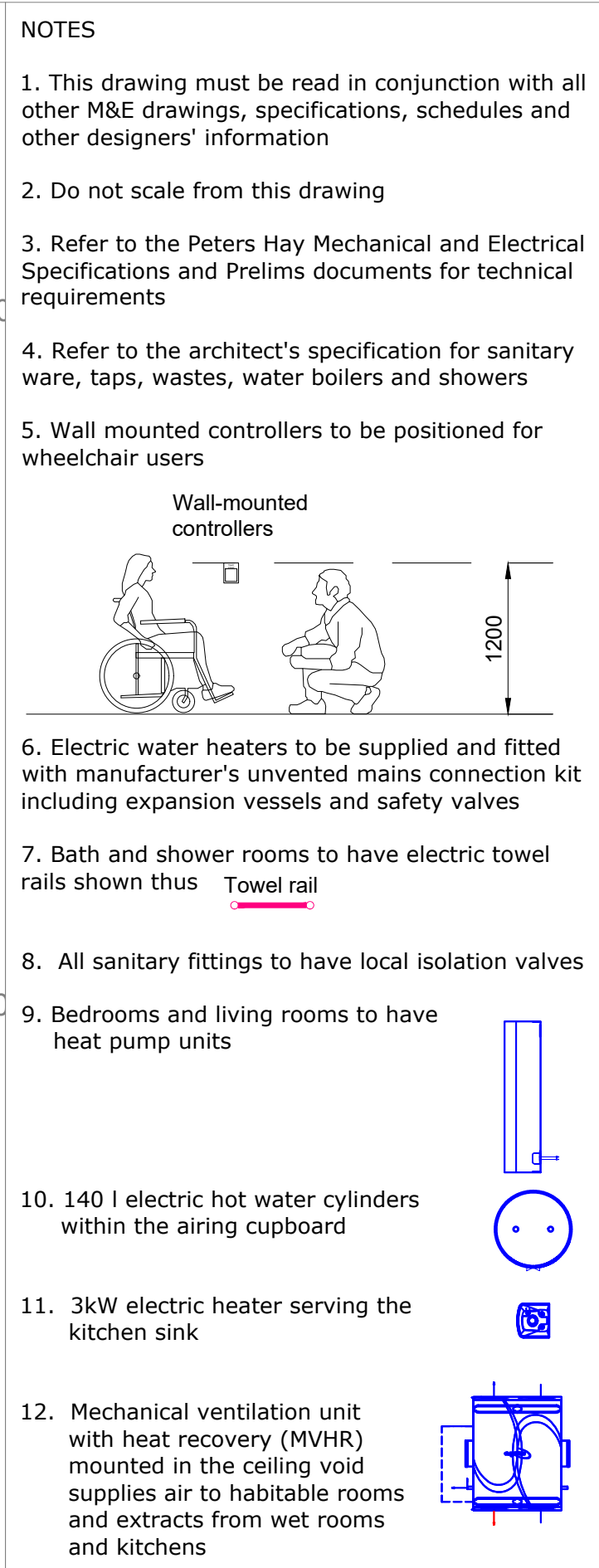


PETERSHAY

EDINBURGH MANCHESTER
Suite 14 Planning House 7 Cambridge Lane
Planning Road Davenport
Stockport S20 2BN SK3 8SD
+44(0) 161 759 7519 +44(0) 1600 908333

Drawn by: AP
Reviewed by: JH
Drawn date: December 2020
Scale: 1:50 @A0
Client: DTZI
PHL Project number: 1176
Project title: 58-64 King Street Manchester
Drawing title: Piped services - basement
Drawing number: 1176-PHL-KS-1-DR-P-201

Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP

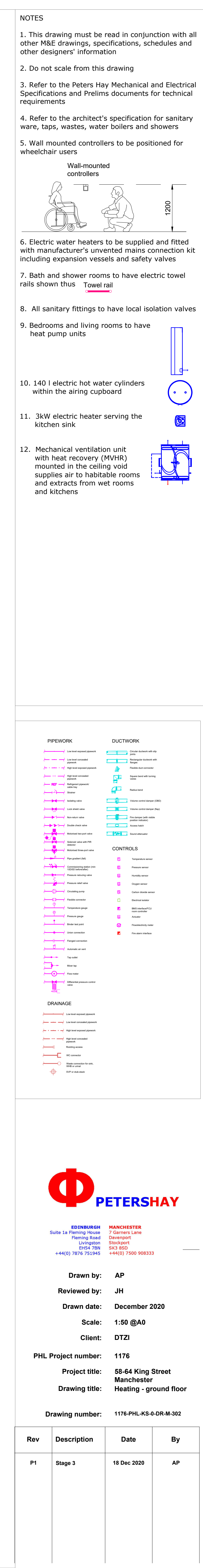
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EDINBURGH
Suite 1a Fleming House
Fleming Road
Livingston
EH54 7BN
+44(0) 7876 751945

MANCHESTER
7 Garsiers Lane
Davenport
Stockport
SK3 8SD
+44(0) 7500 908333

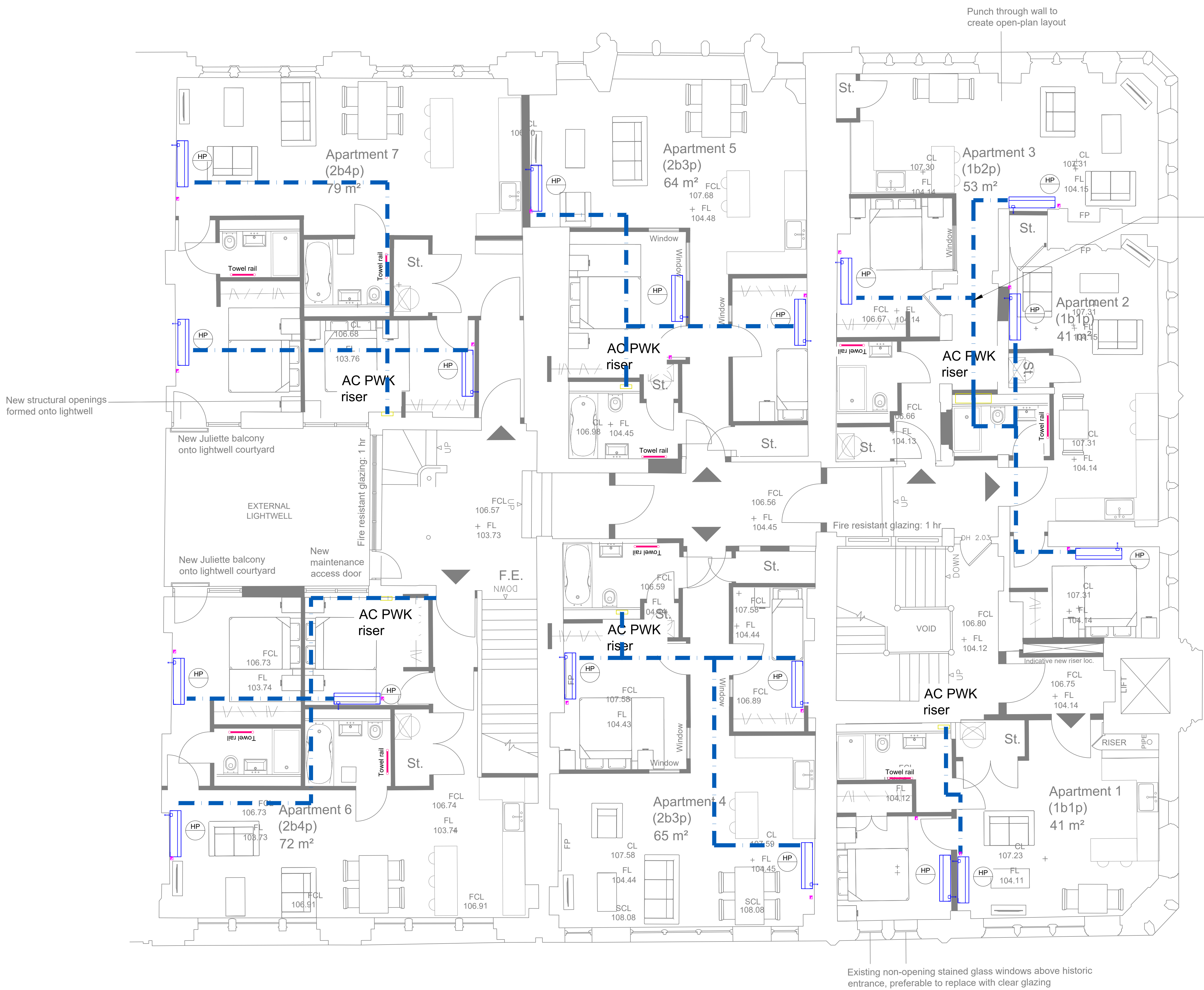
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Reviewed by: JH
Drawn date: December 2020
Scale: 1:50 @A0
Client: DTZI
IL Project number: 1176
Project title: 58-64 King Street
 Manchester
Drawing title: Piped services -
 ground floor

Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP



Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP

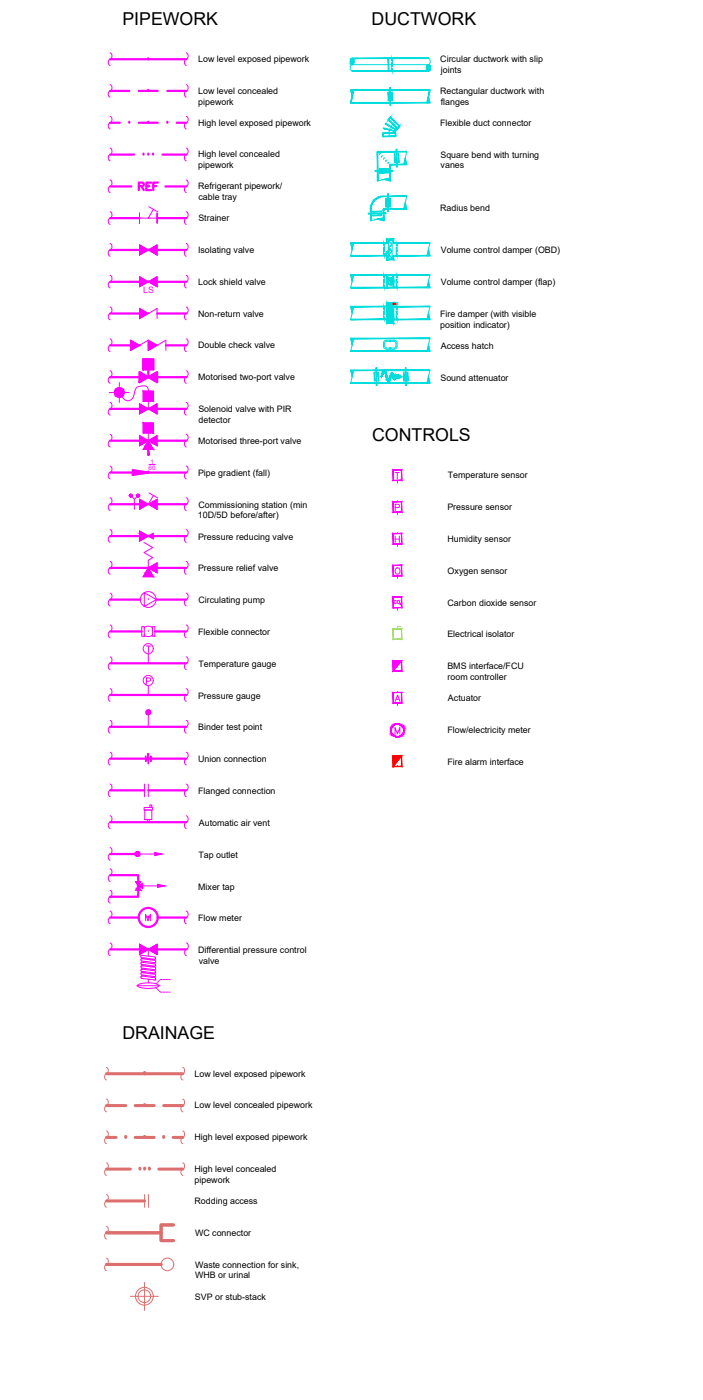
oor GIA
m²



Refrigerant pipework and cabling in tray within the ceiling void

Wall-mounted heat pump units shown indicatively; locations to be coordinated with interior design; units can be low level, floor standing, ceiling void concealed, ceiling recessed, or ceiling surface mounted

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 8. All sanitary fittings to have local isolation valves
 9. Bedrooms and living rooms to have heat pump units with wall-mounted controller
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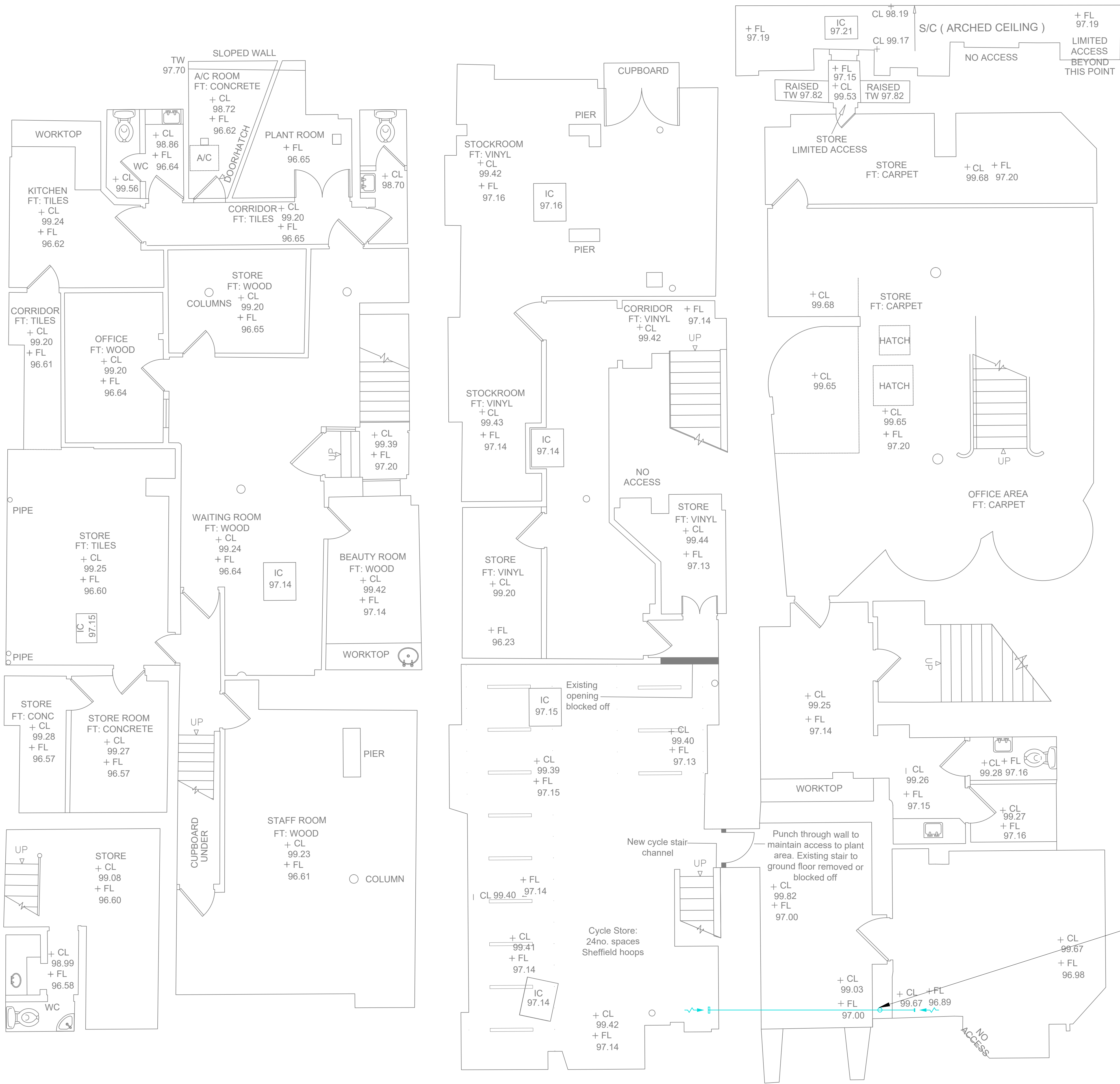


PETERSHAY

EDINBURGH MANCHESTER
Scale 1:4 Planning Route 7 Junction 6A
Planning Road Davenport
Stockport
+44(0) 789 751965 +44(0) 7500 908333

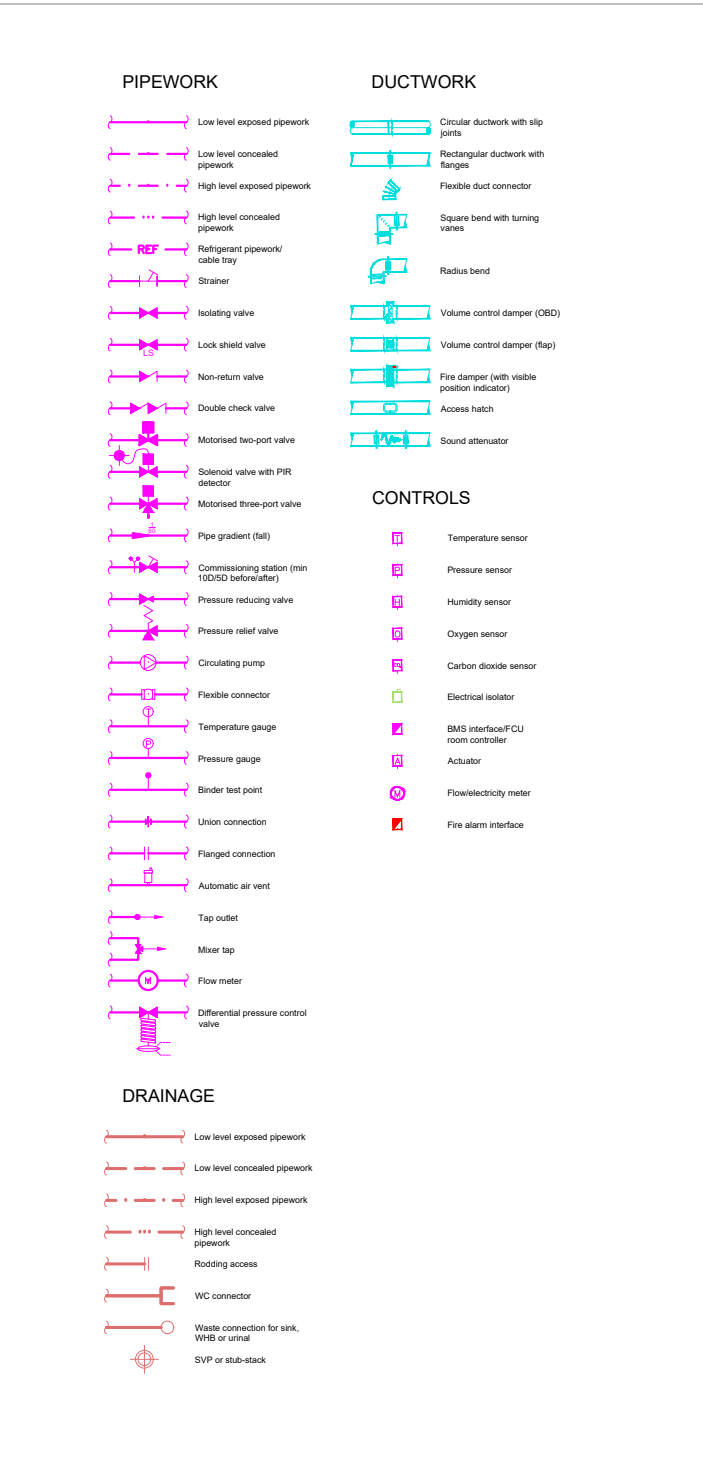
Drawn by: AP
Reviewed by: JH
Drawn date: December 2020
Scale: 1:50 @A0
Client: DTZI
PHL Project number: 1176
Project title: 58-64 King Street
Manchester
Drawing title: Heating - 1st floor
Drawing number: 1176-PHL-KS-1-DR-M-303

Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP



Background ventilation to the basement spaces to be provided by an extract system with duct rising to above to discharge over the main door; make-up air is through the GF louvre and infiltration

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- Wall-mounted controllers
-
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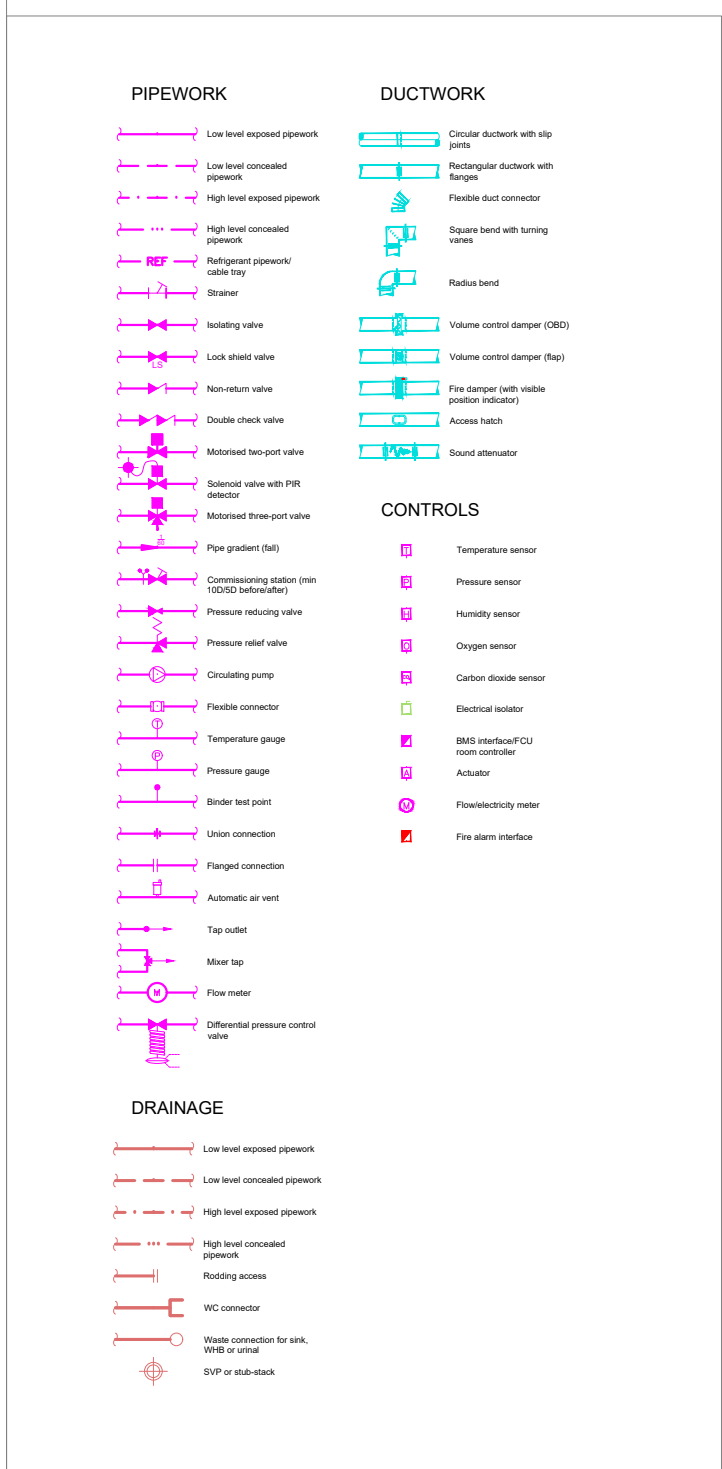
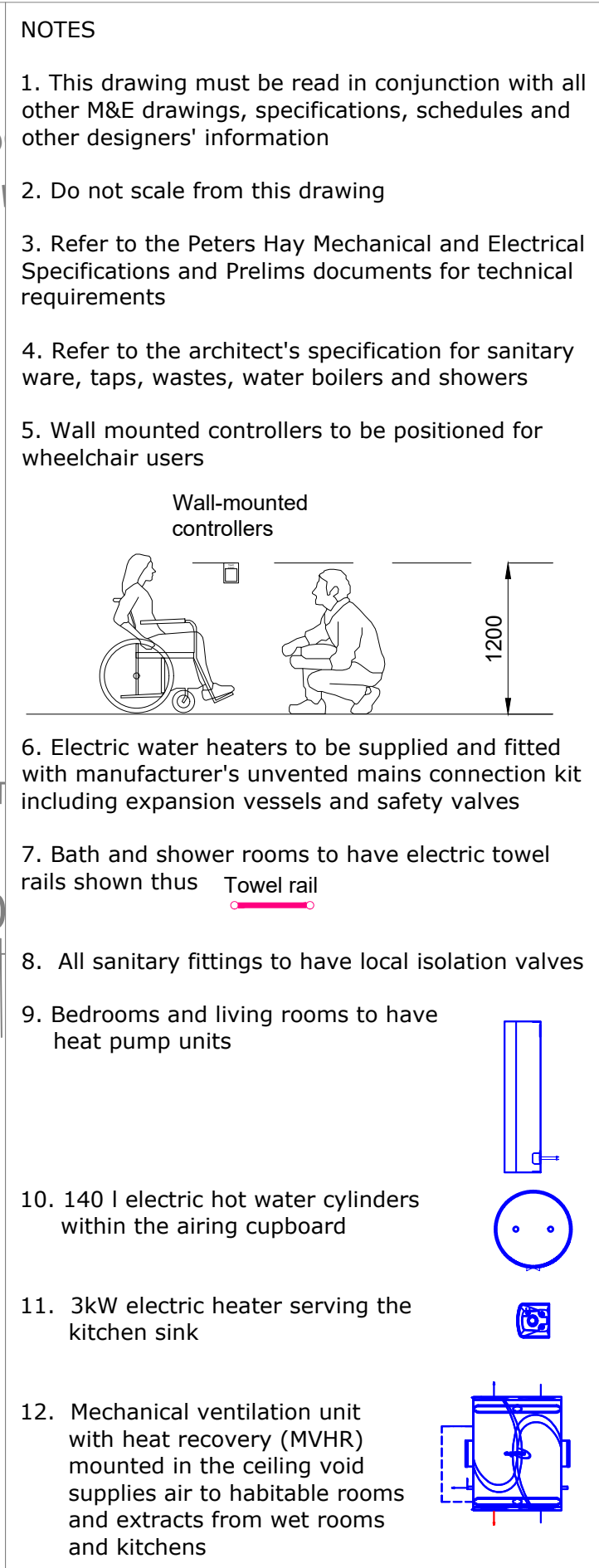


PETERSHAY

EDINBURGH MANCHESTER
Scale 1:4 Planning Route 7 Junction Lane
Planning Road Davenport
Lancashire SK9 8SD
+44(0) 7593 751295 +44(0) 7500 908333

Drawn by: AP
Reviewed by: JH
Drawn date: December 2020
Scale: 1:50 @A0
Client: DTZI
PHL Project number: 1176
Project title: 58-64 King Street Manchester
Drawing title: Ventilation - basement
Drawing number: 1176-PHL-KS-1-DR-M-401

Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP

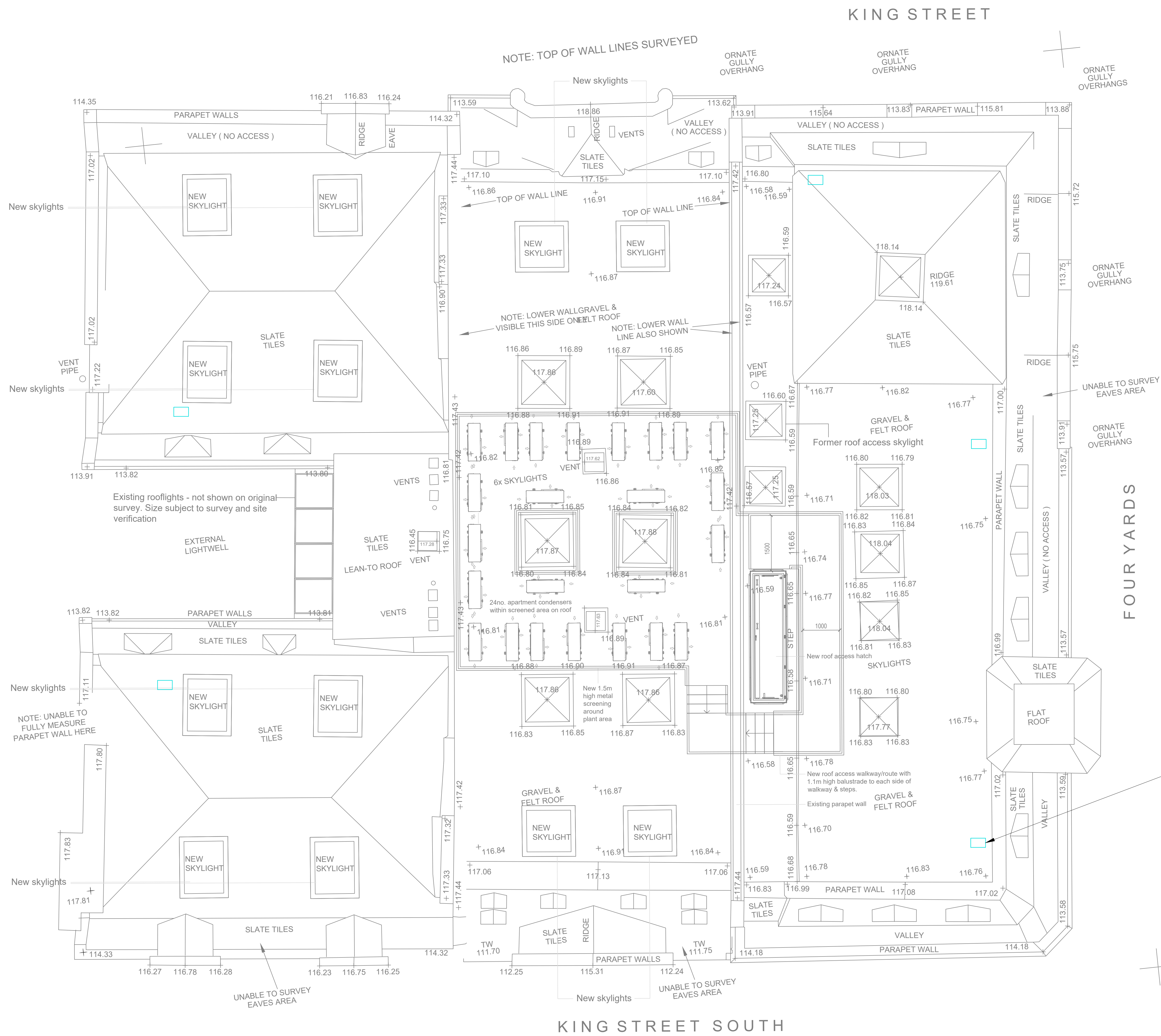


EDINBURGH
Suite 1e Fleming House
Fleming Road
Livingston
EH54 7BN
+44(0) 7876 751945

MANCHESTER
7 Garsers Lane
Davenport
Stockport
SK3 8SD
+44(0) 7500 908333

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Reviewed by:	JH
Drawn date:	December 2020
Scale:	1:50 @A0
Client:	DTZI
HL Project number:	1176
Project title:	58-64 King Street Manchester
Drawing title:	Ventilation - ground floor

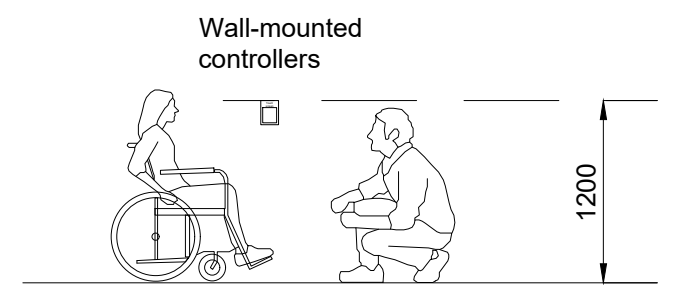
Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP



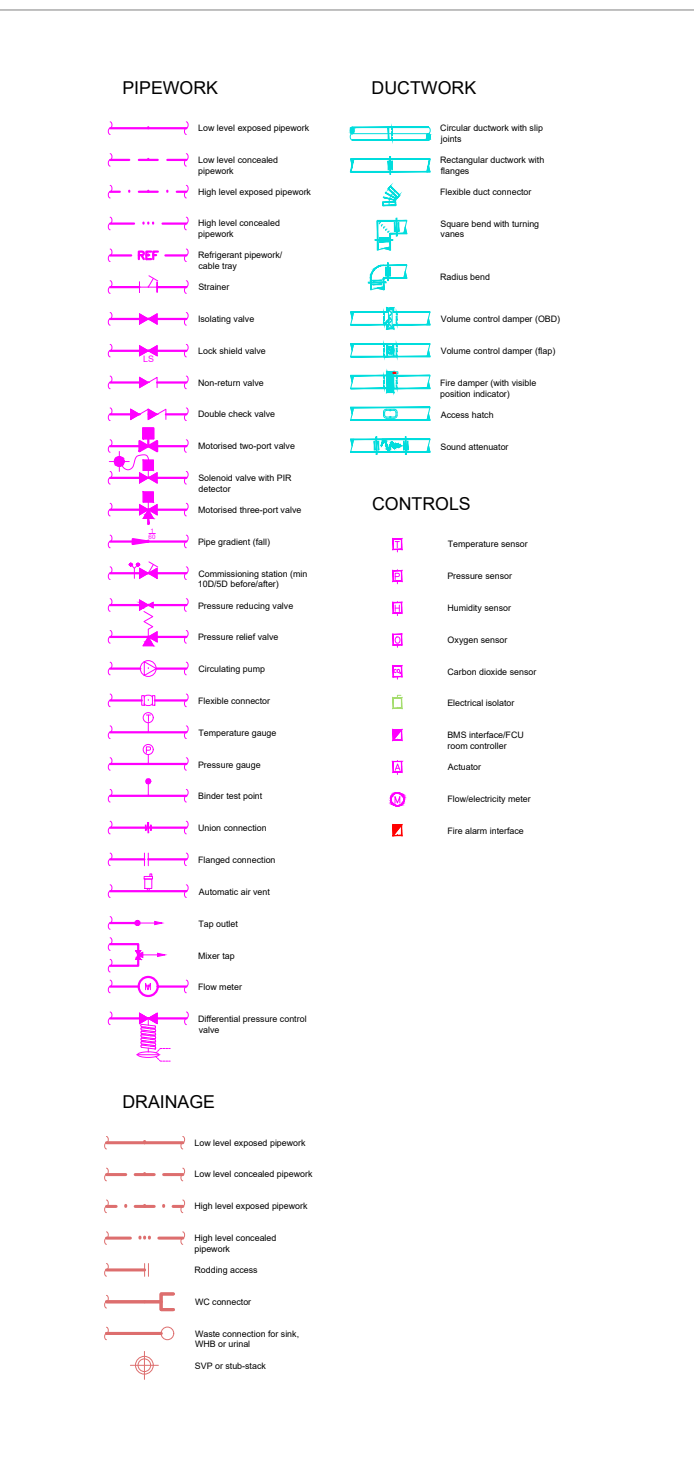
Approximate locations of MVHR units in the apartments below, where roof terminals could be provided instead of perimeter air bricks

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Drawn by: AP
Reviewed by: JH
Drawn date: December 2020
Scale: 1:50 @A0
Client: DTZI
PHL Project number: 1176
Project title: 58-64 King Street Manchester
Drawing title: Ventilation - roof

Drawing number: 1176-PHL-KS-1-DR-M-408

Rev	Description	Date	By
P1	Stage 3	18 Dec 2020	AP