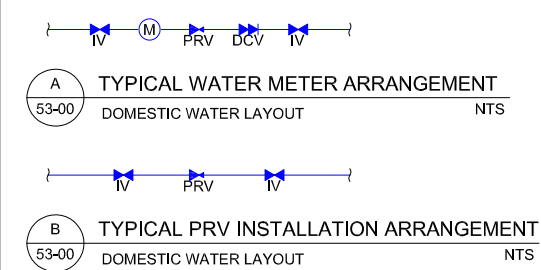
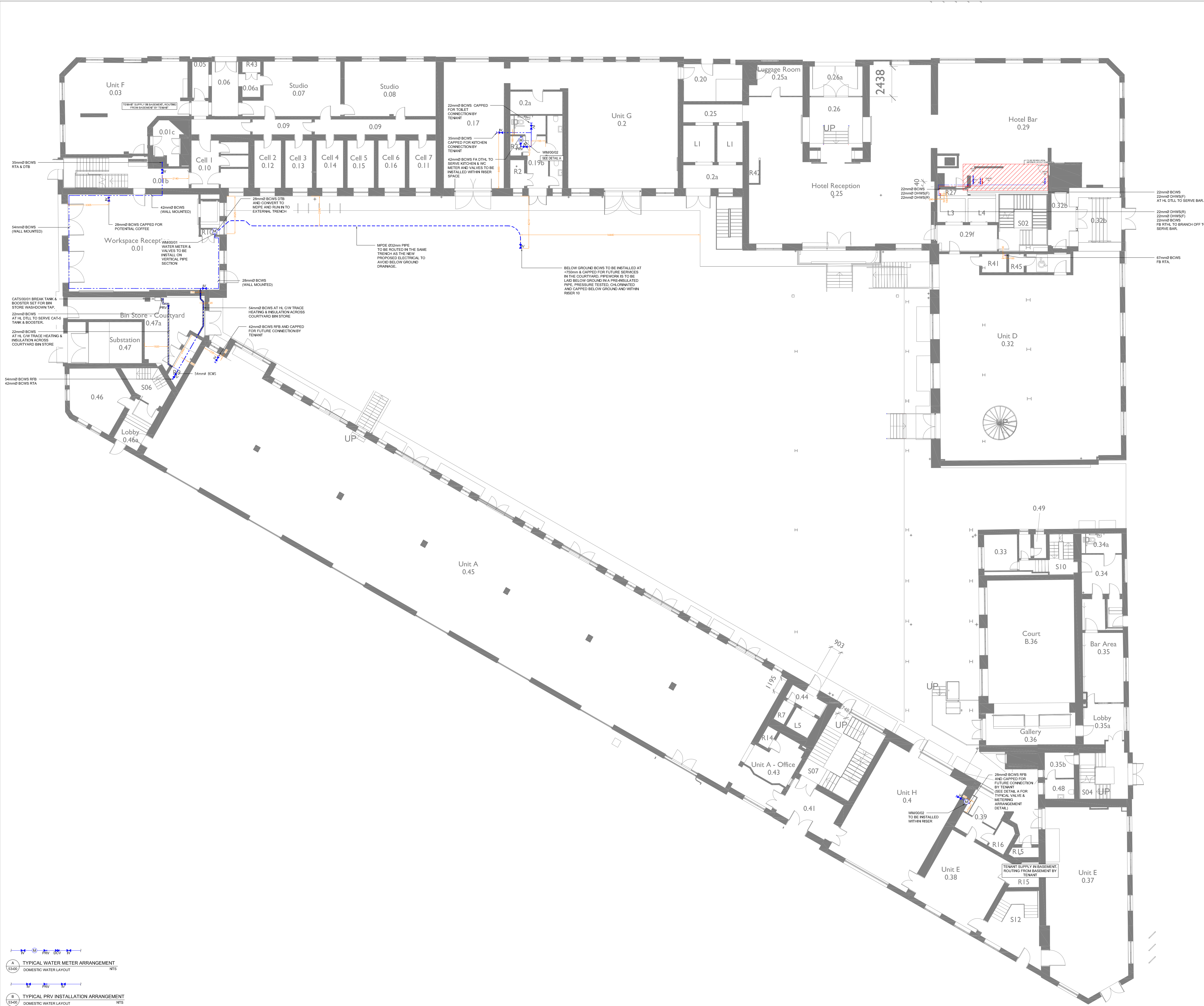


Millimetres

0 10 10



NOTES

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3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS, SPECIFICATIONS AND SCHEDULES

4. ANY PENETRATION THROUGH FLOOR, SEEK STRUCTURAL ENGINEERS APPROVAL BEFORE COMMENCEMENT.

5. ALL PLANT AND EQUIPMENT SHALL BE INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

HOT & COLD WATER SERVICES INSTALLATION

1. ALL COMMUNAL & EXPOSED DOMESTIC WATER SERVICES PIPEWORK IS TO BE INSTALLED IN COPPER WITH A THICKNESS IN ACCORDANCE WITH BS EN 1057 & A10210.

2. ALL EXPOSED PIPEWORK IN KITCHEN AND BATHROOM AREAS SHALL BE CHROME.

3. ALL FITTINGS USED WITHIN THE DOMESTIC WATER SYSTEM SHALL BE WRAS APPROVED AND SUITABLE FOR USE IN A POTABLE WATER ENVIRONMENT.

4. BACKFLOW PREVENTION SHALL BE PROVIDED WITHIN ALL WATER CONNECTIONS TO DISHWASHERS, WASHING MACHINES AND SHOWERS IN THE FORM OF DOUBLE CHECK VALVES.

5. EXCESSIVE MAINS WATER PRESSURE AT THE POINT OF USE SHALL BE MITIGATED THROUGH THE USE OF PRESSURE-REDUCING VALVES IF NECESSARY.

6. BALLFOFF ISOLATION VALVES SHALL BE INSTALLED WITHIN THE DOMESTIC WATER SERVICES PIPEWORK TO EACH OUTLET. THESE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE OUTLET AND THE VALVE ACTUATION SHALL BE ORIENTATED FOR EASE OF ISOLATION.

7. ALL DOMESTIC WATER SERVICES PIPEWORK SHALL BE INSULATED WITH FOIL FACED MINERAL FIBRE SECTIONS TO BS 388. IN ADDITION ANY PIPEWORK WITHIN EXTERNAL OR UNHEATED SPACES SHALL BE DOUBLE INSULATED AND IF THERE IS A RISK OF FREEZING TRACE HEATED.

8. FIRE STOPPING IS TO BE PROVIDED AT ALL INSTANCES WHERE PIPEWORK PASSES THROUGH A FIRE COMPARTMENT.

9. DISCHARGE FROM ALL SAFETY AND RELIEF VALVES ARE TO DISCHARGE TO DRAIN VIA A TUNDRISH WITH A VISIBLE AIR GAP IN A SAFE AND CONSPICUOUS LOCATION.

10. ALL NEW MAINS PIPEWORK IS TO BE PROVIDED WITH IDENTIFICATION TO BS 1710, INCLUDING DIRECTION OF FLOW AT REGULAR INTERVALS (MAX 5m).

11. ALL HOT & COLD WATER SERVICES TO BE FLUSHED & STERILIZED IN ACCORDANCE WITH BS EN 806.

12. ALL PIPEWORK IS TO BE BOXED IN TO ARCHITECT'S REQUIREMENT.

13. ALL SANITARY WARE, TAPS, SHOWER MIXERS, SHOWER HEADS ETC TO BE INSTALLED AS SPECIFIED BY ARCHITECT.

14. ALL BATHS & SHOWERS TO BE INSTALLED WITH THERMOSTATIC MIXING VALVE IN ACCORDANCE WITH TMV2.

15. HEAT INTERFACE UNIT MOUNTED AT LOW LEVEL, PROVIDING BOTH LPHW HEATING AND DOMESTIC HOT WATER, UNITS COMPLETE WITH NECESSARY HEAT METERS, REGULATING VALVES ETC (REFER TO SPECIFICATION)

16. PIPEWORK EXPANSION AND ANCHOR POINTS SHOWN ARE INDICATIVE AND TO BE DEVELOPED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

DOMESTIC WATER LEGEND

— BOOSTED COLD WATER SUPPLY
— DOMESTIC HOT WATER SUPPLY (H)
— DOMESTIC HOT WATER SUPPLY (R)
— MAINS COLD WATER SUPPLY
--- PIPEWORK IN CEILING VOID
--- PIPEWORK AT LOW LEVEL
--- PIPEWORK IN FLOOR VOID

IV ISOLATION VALVE
PRV PRESSURE-REDUCING VALVE
TMV2 THERMOSTATIC MIXING VALVE
WM WATER METER
ABB ITEM ABBREVIATION
REF REFERENCE NUMBER

ABBREVIATIONS

LL - LOW LEVEL
HL - HIGH LEVEL
FV - FLOOR VOID
CV - CEILING VOID
FB - FROM BELOW
FA - FROM ABOVE
DTB - DROP TO BELOW
RTA - RISE TO ABOVE
ASHP - AIR-SOURCE HEAT PUMP
BA - BATH
DF - DRINKING FOUNTAIN
SH - SHOWER
SB - SINK
WB - WASH BASIN
WC - WATER CLOSET

FLOW RESTRICTORS / VOLUME REDUCTION (BREATHER)

FIXTURE	UNIT	VALUE
WC	EFFECTIVE FLUSH VOLUME (L)	6
SHOWERS	LMIN	6
BATHS	L	160
URINAL	L/BOWL/HR	3
KITCHEN TAP (KITCHENETTE)	LMIN	7
KITCHEN TAP (RESTAURANT)	LMIN	8.3
DOMESTIC DISHWASHER	L/CYCLE	13
COMMERCIAL DISHWASHER	L/RACK	3

P04	03.03.25	GA's UPDATED	CMB	CW	LM
P03	14.11.24	REVISED PER COMMENTS	CC	CW	LM
P02	06.08.24	REVISED GA & INCORPORATE COMMENTS	YA	CC	LM
P01	18.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	YA	CC	LM
Rev.	Date	Description	By	Chk'd	App'd
Drawing Suitability			Status		

Client

ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION
FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH

Drawing Title

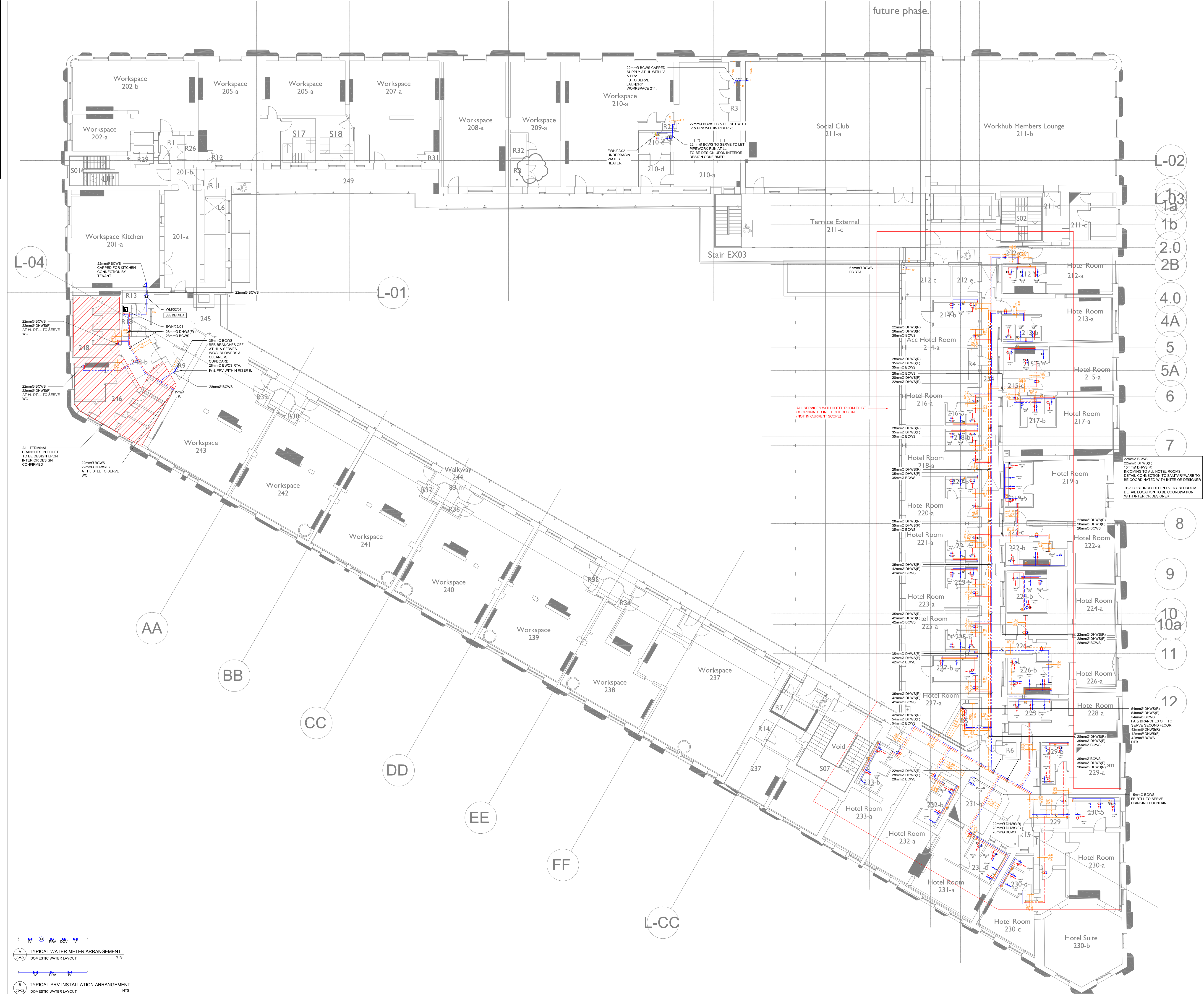
**PUBLIC HEALTH SERVICES
DOMESTIC WATER LAYOUT
GROUND FLOOR**

Scale	Designed	Drawn	Checked	Authorised
1:100	CC	YA	CC	LM

Original Size	Date	Date	Date	Date
-	18.04.24	18.04.24	18.04.24	18.04.24

Drawing Number	Revision
LRFS-CMB-PH-00-XX-DR-5301	P04

Millimetres
0 10 100



- NOTES**
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- HOT & COLD WATER SERVICES INSTALLATION**
- ALL COMMUNAL & EXPOSED DOMESTIC WATER SERVICES PIPEWORK IS TO BE INSTALLED IN COPPER WITH A THICKNESS IN ACCORDANCE WITH BS EN 1057 & A10210.
 - ALL EXPOSED PIPEWORK IN KITCHEN AND BATHROOM AREAS SHALL BE CHROME.
 - ALL FITTINGS USED WITHIN THE DOMESTIC WATER SYSTEM SHALL BE WRAS APPROVED AND SUITABLE FOR USE IN A POTABLE WATER ENVIRONMENT.
 - BACKFLOW PREVENTION SHALL BE PROVIDED WITHIN ALL WATER CONNECTIONS TO DISHWASHERS, WASHING MACHINES AND SHOWERS IN THE FORM OF DOUBLE CHECK VALVES.
 - EXCESSIVE MAINS WATER PRESSURE AT THE POINT OF USE SHALL BE MITIGATED THROUGH THE USE OF PRESSURE REDUCING VALVES IF NECESSARY.
 - BALLOFIX ISOLATION VALVES SHALL BE INSTALLED WITHIN THE DOMESTIC WATER SERVICES PIPEWORK TO EACH OUTLET. THESE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE OUTLET AND THE VALVE ACTUATION SHALL BE ORIENTATED FOR EASE OF ISOLATION.
 - ALL DOMESTIC WATER SERVICES PIPEWORK SHALL BE INSULATED WITH FOIL FACED MINERAL FIBRE SECTIONS TO BS 388. IN ADDITION ANY PIPEWORK WITHIN EXTERNAL OR UNHEATED SPACES SHALL BE DOUBLE INSULATED AND IF THERE IS A RISK OF FREEZING TRACE HEATED.
 - FIRE STOPPING IS TO BE PROVIDED AT ALL INSTANCES WHERE PIPEWORK PASSES THROUGH A FIRE COMPARTMENT.
 - DISCHARGE FROM ALL SAFETY AND RELIEF VALVES ARE TO DISCHARGE TO DRAIN VIA A TUNDRISH WITH A VISIBLE AIR GAP IN A SAFE AND CONSPICUOUS LOCATION.
 - ALL NEW MAINS PIPEWORK IS TO BE PROVIDED WITH IDENTIFICATION TO BS 1710 INCLUDING DIRECTION OF FLOW AT REGULAR INTERVALS (MAX 5m).
 - ALL HOT & COLD WATER SERVICES TO BE FLUSHED & STERILIZED IN ACCORDANCE WITH BS EN 806.
 - ALL PIPEWORK TO BE BOXED IN TO ARCHITECT'S REQUIREMENT.
 - ALL SANITARY WARE, TAPS, SHOWER MIXERS, SHOWER HEADS ETC TO BE INSTALLED AS SPECIFIED BY ARCHITECT.
 - ALL BATHS & SHOWERS TO BE INSTALLED WITH THERMOSTATIC MIXING VALVE IN ACCORDANCE WITH TMV2.
 - HEAT INTERFACE UNIT MOUNTED AT LOW LEVEL, PROVIDING BOTH LPHW HEATING AND DOMESTIC HOT WATER, UNITS COMPLETE WITH NECESSARY HEAT METERS, REGULATING VALVES ETC (REFER TO SPECIFICATION)
 - PIPEWORK EXPANSION AND ANCHOR POINTS SHOWN ARE INDICATIVE AND TO BE DEVELOPED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

DOMESTIC WATER LEGEND

—	BOOSTED COLD WATER SUPPLY
—	DOMESTIC HOT WATER SUPPLY (H)
—	DOMESTIC HOT WATER SUPPLY (R)
—	MAINS COLD WATER SUPPLY
---	PIPEWORK IN CEILING VOID
---	PIPEWORK AT LOW LEVEL
---	PIPEWORK IN FLOOR VOID

PI ISOLATION VALVE
MI MIXING VALVE
PRV PRESSURE REDUCING VALVE
TMV2 THERMOSTATIC MIXING VALVE
W WATER METER
W WATER CLOSET

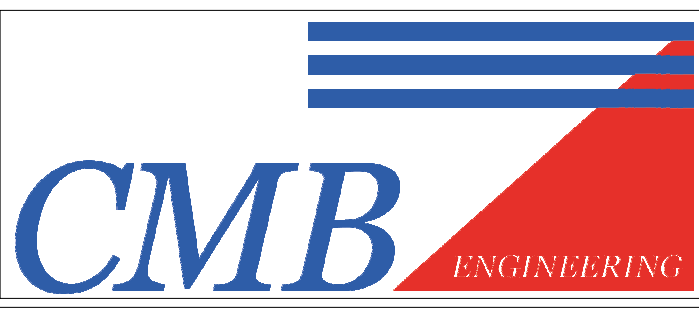
ABBREVIATIONS

LL	LOW LEVEL
HL	HIGH LEVEL
FV	FLOOR VOID
CV	CEILING VOID
FB	FROM BELOW
FA	FROM ABOVE
DTB	DROP TO BELOW
ASHP	AIR-SOURCE HEAT PUMP
BA	BATH
DF	DRINKING FOUNTAIN
SH	SHOWER
SB	SINK
WB	WASH BASIN
WC	WATER CLOSET

FLOW RESTRICTORS | VOLUME REDUCED (BREAM)

FIXTURE	UNIT	VALUE
WC	EFFECTIVE FLUSH VOLUME (L)	6
SHOWERS	LMIN	6
BATHS	L	160
URINAL	LBOV/LR	3
KITCHEN TAP (KITCHENETTE)	LMIN	7
DOMESTIC DISHWASHER	LMIN	8.3
COMMERCIAL DISHWASHER	LICV/LR	13
COMMERCIAL DISHWASHER	LRACK	3

P05	03.03.25	GA'S UPDATED	CMB	CW	LM
P04	14.11.24	REVISED PER COMMENTS	CC	CW	LM
P03	06.08.24	REVISED GA & INCORPORATE COMMENTS	YA	CC	LM
P02	06.06.24	TO INCORPORATE COMMENTS	YA	CC	LM
P01	12.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	YA	CC	LM
Rev.	Date	Description	By	Chk'd	App'd
Drawing Suitability					Status



Client

ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION

FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH

Drawing Title

PUBLIC HEALTH SERVICES

DOMESTIC WATER LAYOUT

SECOND FLOOR

Scale	1:100	Designed	CC	Drawn	YA	Checked	CC	Authorised	LM
Original Size	-	Date	12.04.24	Date	12.04.24	Date	12.04.24	Date	12.04.24
Drawing Number	LRFS-CMB-PH-02-XX-DR-5301								Revision
								P05	



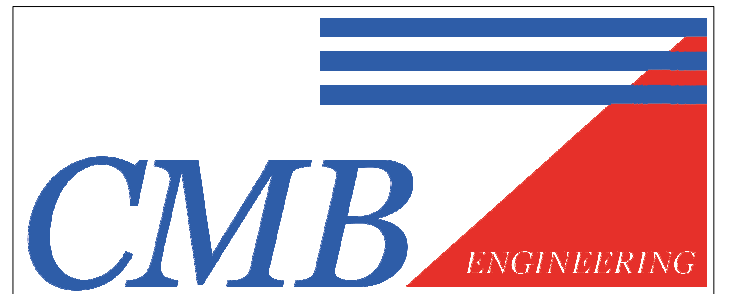
NOTES		
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5.	ALL PLANT AND EQUIPMENT SHALL BE INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.	
HOT & COLD WATER SERVICES INSTALLATION		
1.	ALL COMMUNAL & EXPOSED DOMESTIC WATER SERVICES PIPEWORK IS TO BE INSTALLED IN COPPER WITH A THICKNESS IN ACCORDANCE WITH BS EN 1057 & A1010.	
2.	ALL EXPOSED PIPEWORK IN KITCHEN AND BATHROOM AREAS SHALL BE CHROME.	
3.	ALL FITTINGS USED WITHIN THE DOMESTIC WATER SYSTEM SHALL BE WRAS APPROVED AND SUITABLE FOR USE IN A POTABLE WATER ENVIRONMENT.	
4.	BACKFLOW PREVENTION SHALL BE PROVIDED WITHIN ALL WATER CONNECTIONS TO DISHWASHERS, WASHING MACHINES AND SHOWERS IN THE FORM OF DOUBLE CHECK VALVES.	
5.	EXCESSIVE MAINS WATER PRESSURE AT THE POINT OF USE SHALL BE MITIGATED THROUGH THE USE OF PRESSURE REDUCING VALVES IF NECESSARY.	
6.	BALLOFLEX ISOLATION VALVES SHALL BE INSTALLED WITHIN THE DOMESTIC WATER SERVICES PIPEWORK TO EACH OUTLET. THESE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE OUTLET AND THE VALVE ACTUATION SHALL BE ORIENTATED FOR EASE OF ISOLATION.	
7.	ALL DOMESTIC WATER SERVICES PIPEWORK SHALL BE INSULATED WITH FOIL FACED MINERAL FIBRE SECTIONS TO BS 388. IN ADDITION ANY PIPEWORK WITHIN EXTERNAL OR UNHEATED SPACES SHALL BE DOUBLE INSULATED AND IF THERE IS A RISK OF FREEZING TRACE HEATED.	
8.	FIRE STOPPING IS TO BE PROVIDED AT ALL INSTANCES WHERE PIPEWORK PASSES THROUGH A FIRE COMPARTMENT.	
9.	DISCHARGE FROM ALL SAFETY AND RELIEF VALVES ARE TO DISCHARGE TO DRAIN VIA A TUNDRISH WITH A VISIBLE AIR GAP IN A SAFE AND CONSPICUOUS LOCATION.	
10.	ALL NEW MAINS PIPEWORK IS TO BE PROVIDED WITH IDENTIFICATION TO BS 1710, INCLUDING DIRECTION OF FLOW AT REGULAR INTERVALS (MAX 5m).	
11.	ALL HOT & COLD WATER SERVICES TO BE FLUSHED & STERILISED IN ACCORDANCE WITH BS EN 806.	
12.	ALL PIPEWORK TO BE BOXED IN TO ARCHITECT'S REQUIREMENT.	
13.	ALL SANITARY WARE, TAPS, SHOWER MIXERS, SHOWER HEADS ETC TO BE INSTALLED AS SPECIFIED BY ARCHITECT.	
14.	ALL BATHS & SHOWERS TO BE INSTALLED WITH THERMOSTATIC MIXING VALVE IN ACCORDANCE WITH TMV2.	
15.	HEAT INTERFACE UNIT MOUNTED AT LOW LEVEL, PROVIDING BOTH LPHW HEATING AND DOMESTIC HOT WATER, UNITS COMPLETE WITH NECESSARY HEAT METERS, REGULATING VALVES ETC (REFER TO SPECIFICATION)	
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DOMESTIC WATER LEGEND		
—	BOOSTED COLD WATER SUPPLY	
—	DOMESTIC HOT WATER SUPPLY (H)	
—	DOMESTIC HOT WATER SUPPLY (R)	
—	MAINS COLD WATER SUPPLY	
—	PIPEWORK IN CEILING VOID	
—	PIPEWORK AT LOW LEVEL	
—	PIPEWORK IN FLOOR VOID	
IV	ISOLATION VALVE	
WV	WASHING VALVE	
PRV	PRESSURE REDUCING VALVE	
TMV	THERMOSTATIC MIXING VALVE	
W	WATER METER	
AB	ITEM ABBREVIATION	
REF	REFERENCE NUMBER	

ABBREVIATIONS		
LL	LOW LEVEL	
HL	HIGH LEVEL	
FV	FLOOR VOID	
CV	CEILING VOID	
FB	FROM BELOW	
FA	FROM ABOVE	
DTB	DROP TO BELOW	
RTA	RISE TO ABOVE	
ASHP	AIR-SOURCE HEAT PUMP	
BA	BATH	
DF	DRINKING FOUNTAIN	
SH	SHOWER	
SB	SINK	
WB	WASH BASIN	
WC	WATER CLOSET	

FLOW RESTRICTORS (VOLUME REDUCED) (BREAM)		
FIXTURE	UNIT	VALUE
WC	EFFECTIVE FLUSH VOLUME (L)	6
SHOWERS	LMIN	6
BATHS	L	160
URNAL	LBOV/LHR	3
KITCHEN TAP (KITCHENETTE)	LMIN	7
KITCHEN TAP (RESTAURANT)	LMIN	8.3
DOMESTIC DISHWASHER	LICYCLE	13
COMMERCIAL DISHWASHER	LIRACK	3

P04	03.03.25	GA's UPDATED	CMB	CW	LM
P03	14.11.24	REVISED PER COMMENTS	CC	CW	LM
P02	06.08.24	REVISED GA & INCORPORATE COMMENTS	YA	CC	LM
P01	20.01.25	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	YA	CC	LM
Rev.	Date	Description	By	Chk'd	App'd
Drawing Suitability			Status		



Client

ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION

FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH

Drawing Title

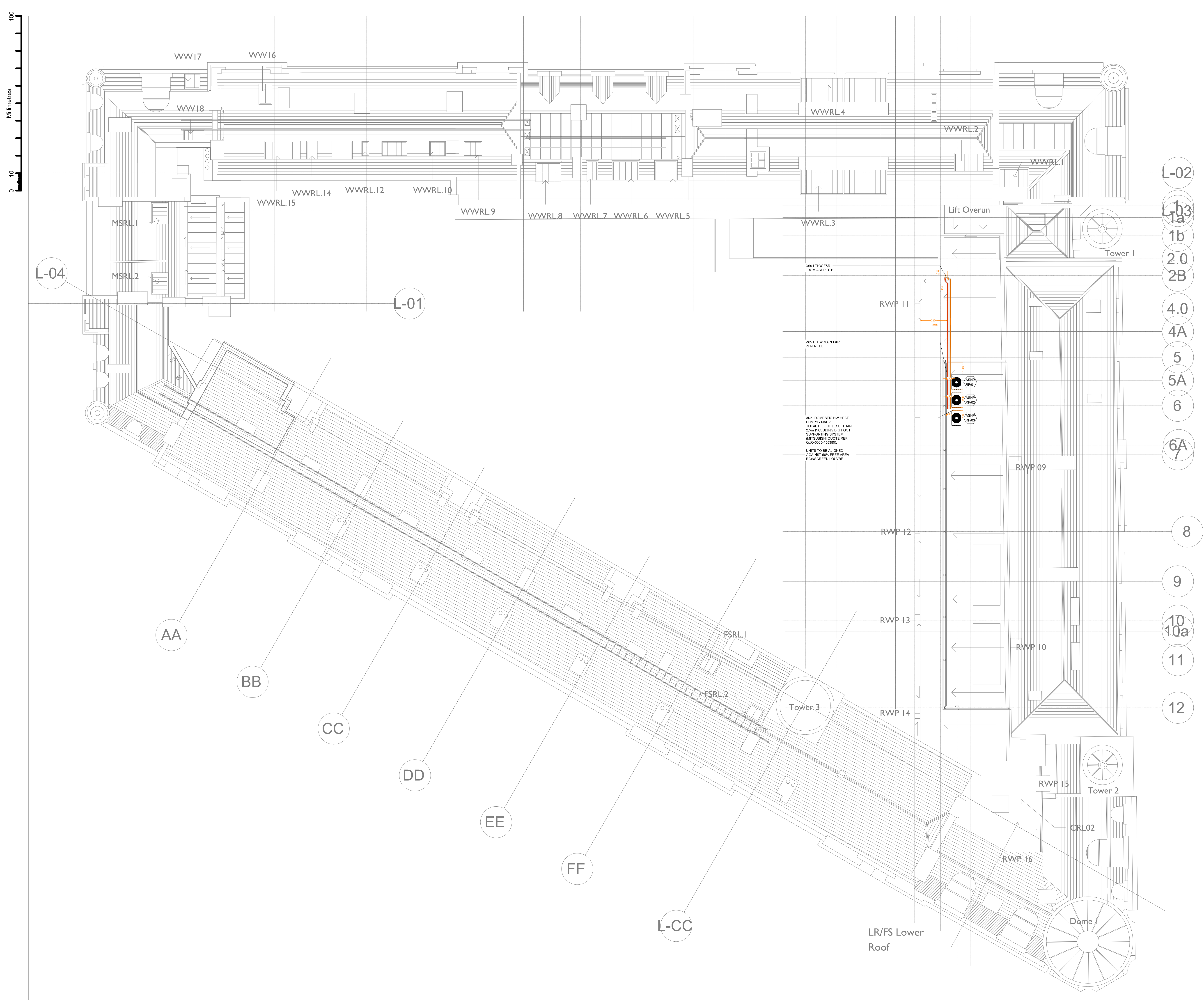
PUBLIC HEALTH SERVICES

DOMESTIC WATER LAYOUT

THIRD FLOOR

Scale	1:100	Designed	CC	Drawn	YA	Checked	CC	Authorised	LM
Original Size	-	Date	20.01.25	Date	20.01.25	Date	20.01.25	Date	20.01.25
Drawing Number	LRFS-CMB-PH-03-XX-DR-5301							Revision	P04





NOTES

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DOMESTIC WATER LEGEND

- BOOSTED COLD WATER SUPPLY
- DOMESTIC HOT WATER SUPPLY (H)
- DOMESTIC HOT WATER SUPPLY (R)
- MAINS COLD WATER SUPPLY
- PIPEWORK IN CEILING VOID
- PIPEWORK AT LOW LEVEL
- PIPEWORK IN FLOOR VOID

ISOLATION VALVE

- ISOLATION VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- WATER METER
- ITEM ABBREVIATION
- REFERENCE NUMBER

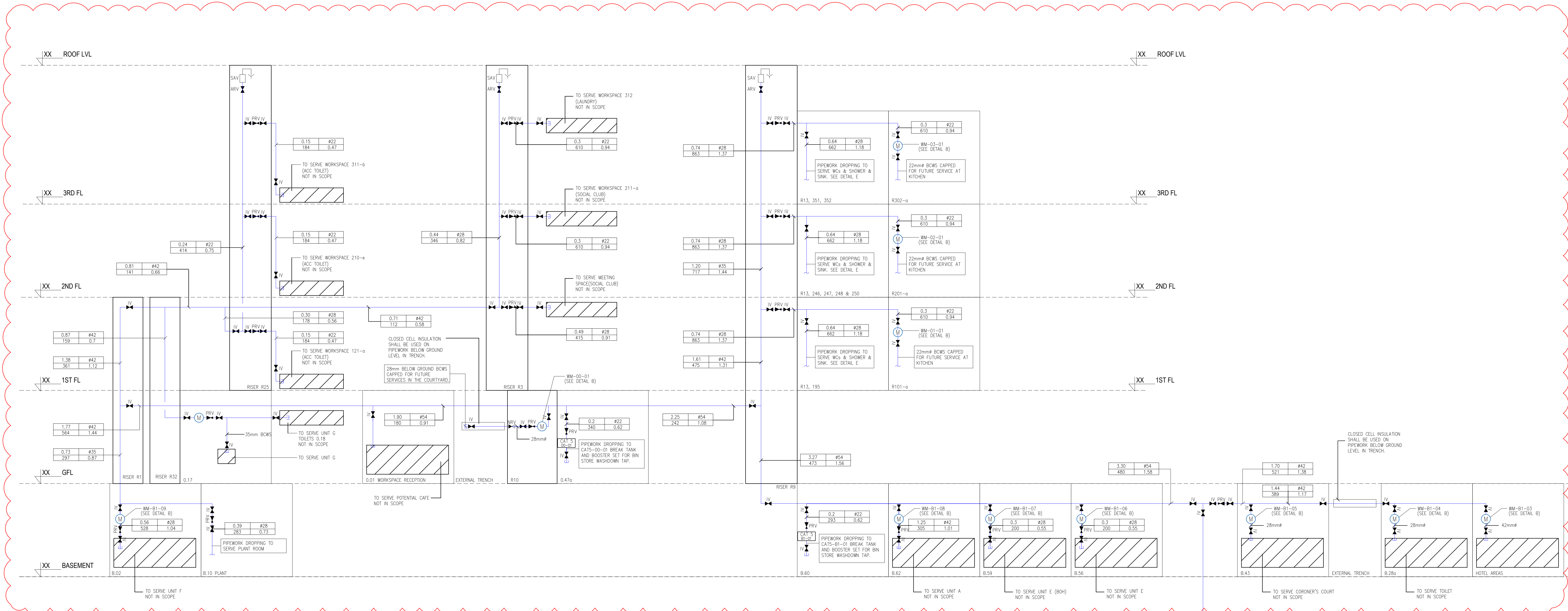
ABBREVIATIONS

- LL - LOW LEVEL
- HL - HIGH LEVEL
- FV - FLOOR VOID
- CV - CEILING VOID
- FB - FROM BELOW
- FA - FROM ABOVE
- DTB - DROP TO BELOW
- RTA - RISE TO ABOVE
- ASHP - AIR-SOURCE HEAT PUMP
- BA - BATH
- SH - SHOWER
- SB - SINK
- WB - WASH BASIN
- WC - WATER CLOSET

FLOW RESTRICTORS | VOLUME REDUCED (BREATHEAM)

FIXTURE	UNIT	VALUE
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SHOWERS	LMIN	6
BATHS	L	160
URINAL	L/BOWL/HR	3
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DOMESTIC DISHWASHER	L/CYCLE	13
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C02	03.03.25	GA's UPDATED	CMB	CW	LM
C01	20.01.25	FOR CONSTRUCTION	CC	CW	LM
Rev.	Date	Description	By	Chk'd	App'd
Drawing Suitability				Status	
STAGE 5 - FOR CONSTRUCTION					
					
Client					
ALLIED LONDON					
Project Title					
LONDON ROAD FIRE STATION FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH					
Drawing Title					
PUBLIC HEALTH SERVICES DOMESTIC WATER LAYOUT ROOF LEVEL					
Scale	1:100	Designed	CC	Drawn	YA
Original Size	A0	Date	20.01.25	Checked	CW
		Date	20.01.25	Date	20.01.25
Drawing Number	LRFS-CMB-PH-RL-XX-DR-5301				Revision
					C02



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- HOT & COLD WATER SERVICES INSTALLATION
- ALL DOMESTIC WATER SERVICES PIPEWORK IS TO BE INSTALLED IN COPPER WITH A THICKNESS IN ACCORDANCE WITH BS2871 TABLE A
 - ALL FITTINGS USED WITHIN THE DOMESTIC WATER SYSTEM SHALL BE WASH APPROVED AND SUITABLE FOR USE IN A POTABLE WATER ENVIRONMENT
 - EXCESSIVE MAINS WATER PRESSURE AT THE POINT OF USE SHALL BE MITIGATED THROUGH THE USE OF PRESSURE REDUCING VALVES IF NECESSARY
 - BALLOTTING ISOLATION VALVES SHALL BE INSTALLED WITHIN THE DOMESTIC WATER SERVICES PIPEWORK TO EACH OUTLET. THESE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE OUTLET AND THE VALVE ACTUATOR SHALL BE ORIENTATED FOR EASE OF ISOLATION
 - ALL DOMESTIC WATER SERVICES PIPEWORK SHALL BE INSULATED WITH FOIL FACED MINERAL FIBRE SECTIONS TO BS 3388. IN ADDITION ANY PIPEWORK WITHIN EXTERNAL OR UNHEATED SPACES SHALL BE DOUBLE INSULATED AND IF THERE IS A RISK OF FREEZING TRACES HEATED
 - FIRE STOPPING IS TO BE PROVIDED AT ALL INSTANCES WHERE PIPEWORK PASSES THROUGH A FIRE COMPARTMENT
 - DISCHARGE FROM ALL SAFETY AND RELIEF VALVES ARE TO DISCHARGE TO DRAIN VIA A TUBESIDE WITH A VISIBLE AIR GAP IN A SAFE AND CONSPICUOUS LOCATION
 - ALL NEW MAINS PIPEWORK IS TO BE PROVIDED WITH IDENTIFICATION TO BS 1710, INCLUDING DIRECTION OF FLOW AT REGULAR INTERVALS (MAX 5m)
 - ALL HOT & COLD WATER SERVICES TO BE FLUSHED & STERILIZED IN ACCORDANCE WITH BS EN 806
 - ALL PIPEWORK TO BE BOOKED IN TO ARCHITECT'S RECORD
 - ALL SANITARY WARE, TAPS, SHOWER MIXERS, SHOWER HEADS ETC TO BE INSTALLED AS SPECIFIED BY ARCHITECT

SYMBOLS LEGEND

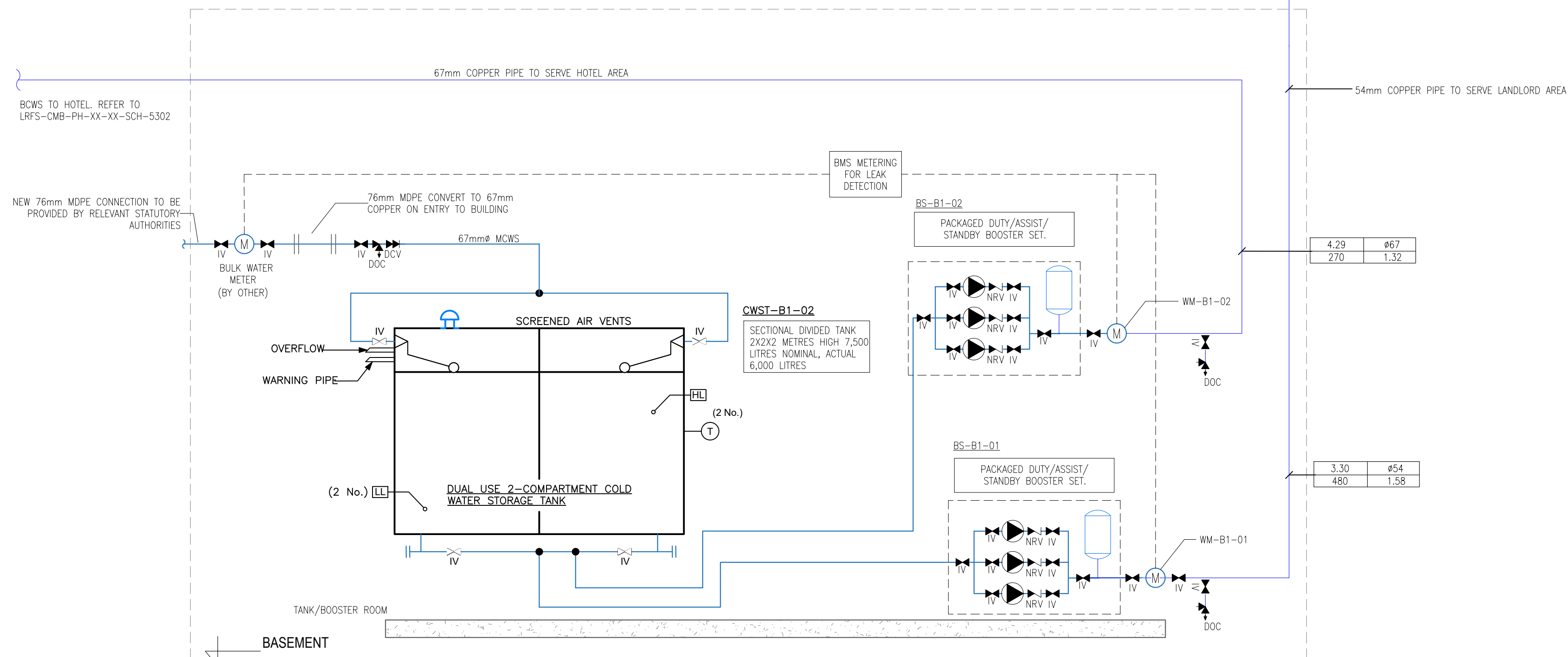
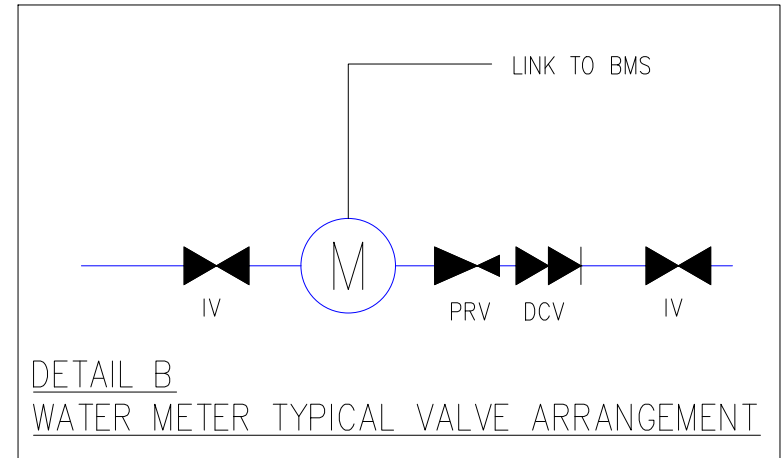
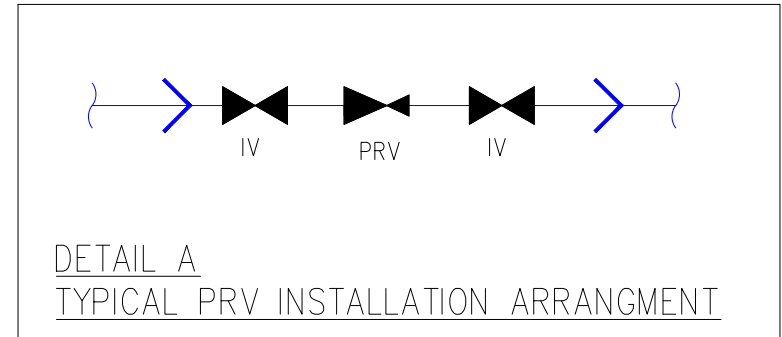
- MANNS COLD WATER (MCWS)
- BOOSTED COLD WATER SERVICES (BOWS)
- WATER METER
- ISOLATION VALVE
- STOPCOCK
- PRESSURE REDUCING VALVE
- AUTOMATIC AIR VENT
- DOUBLE CHECK VALVE
- CHECK VALVE
- DIFFERENTIAL PRESSURE SWITCH
- NON-RETURN VALVE
- DRAIN OFF COCK
- DRAIN OFF COCK
- STRAINER
- SURGE ARRESTOR VALVE
- THERMOSTATIC MIXING VALVE

ABBREVIATIONS

- P/W - PIPE WORK
- L/L - LOW LEVEL
- R/A - ROSE TO ABOVE
- P/B - FROM BELOW
- CV - CEILING VOID
- DT/L - DROP TO LOW LEVEL

CROSSHAIR LEGEND:

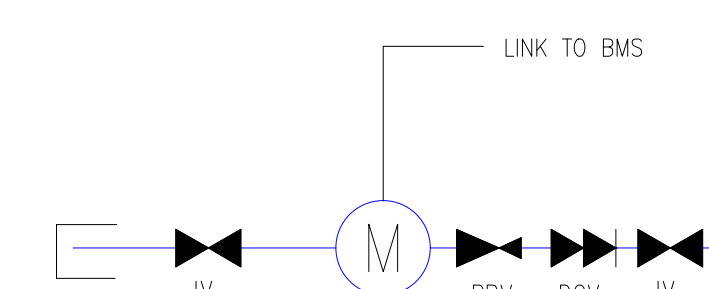
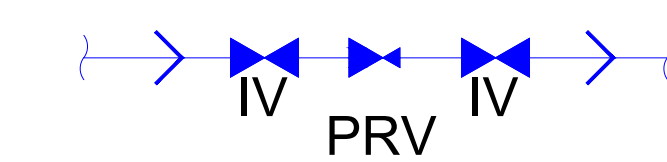
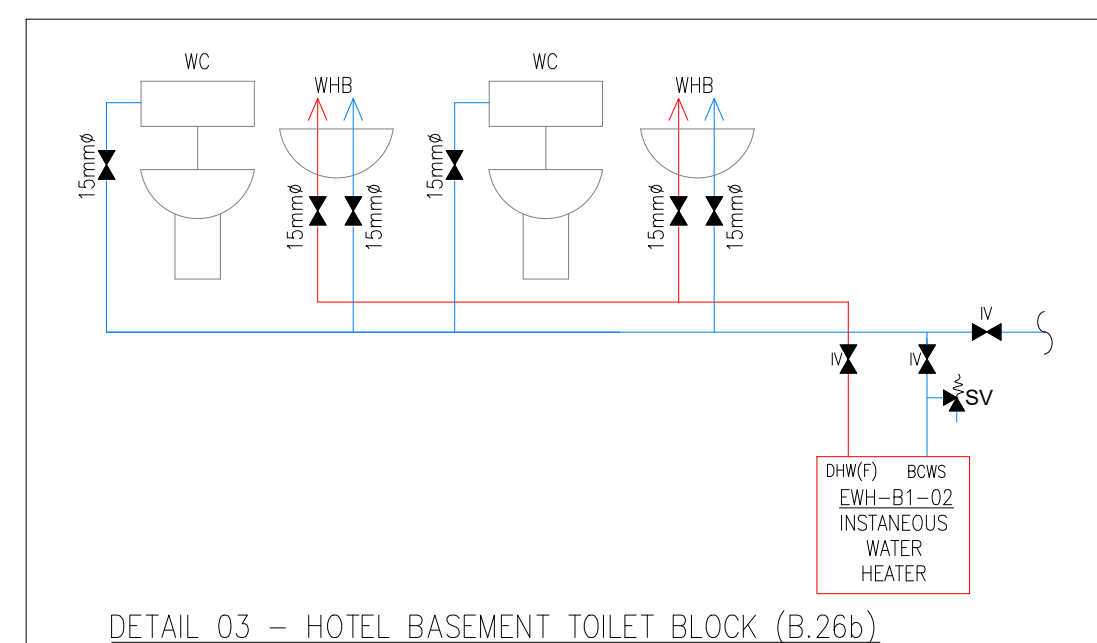
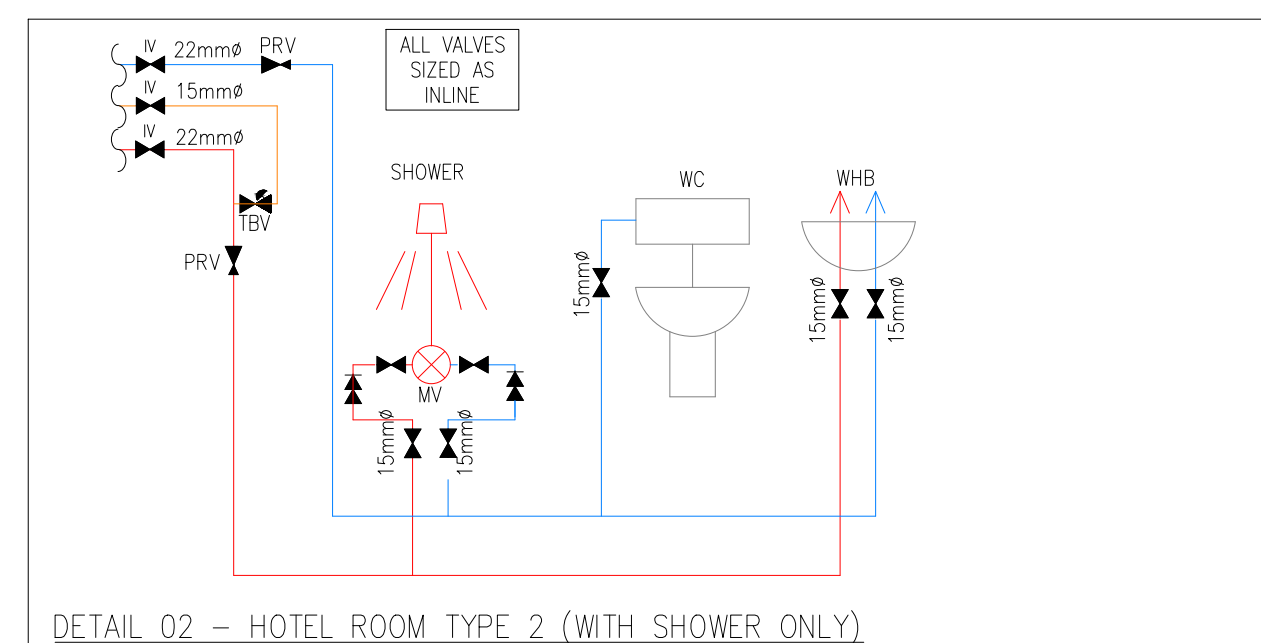
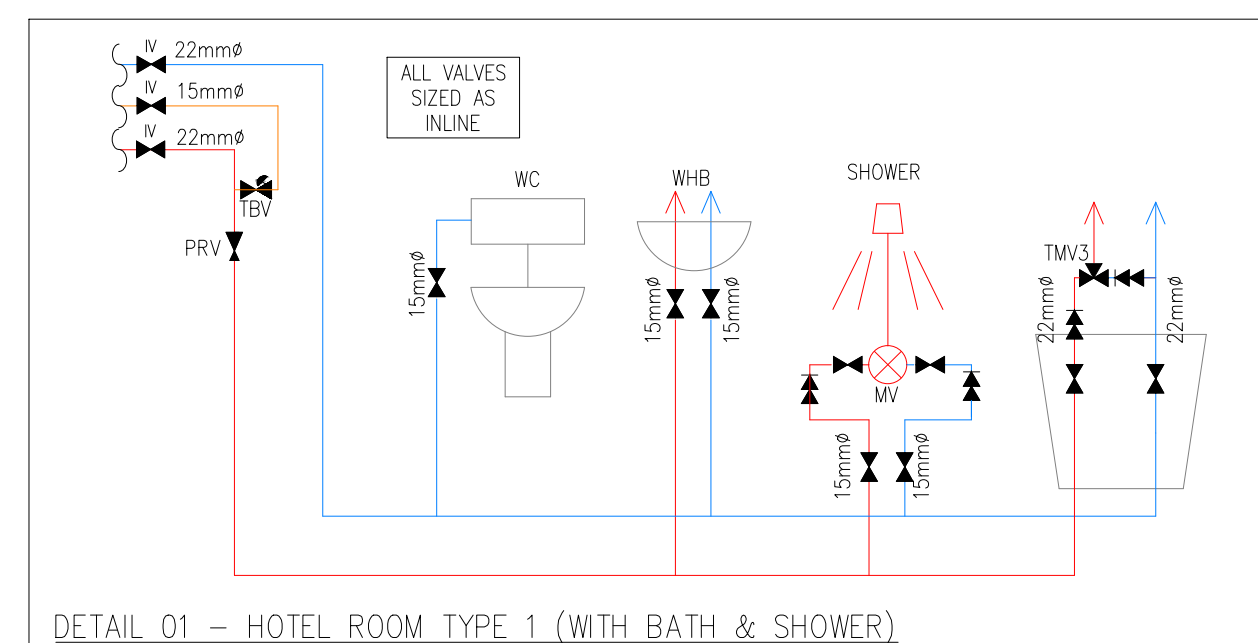
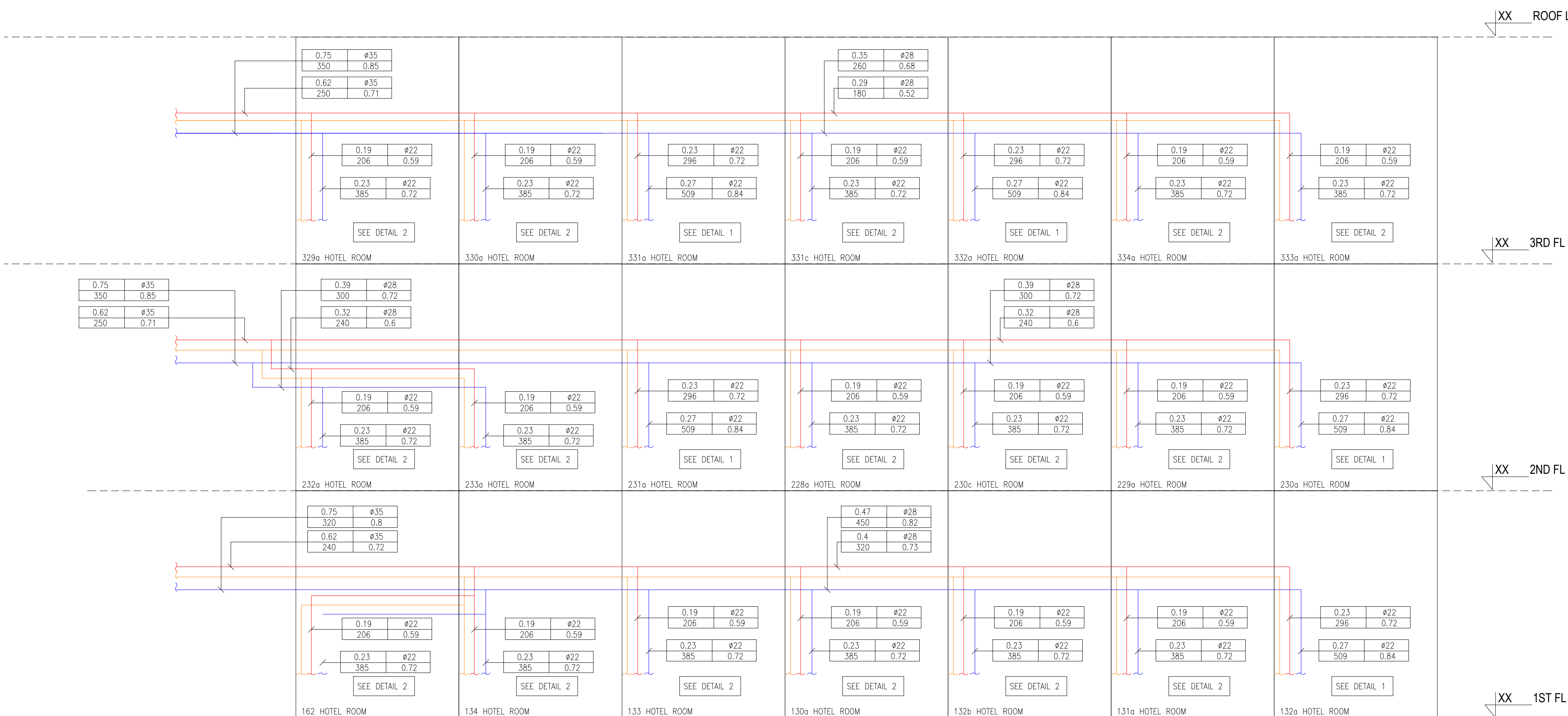
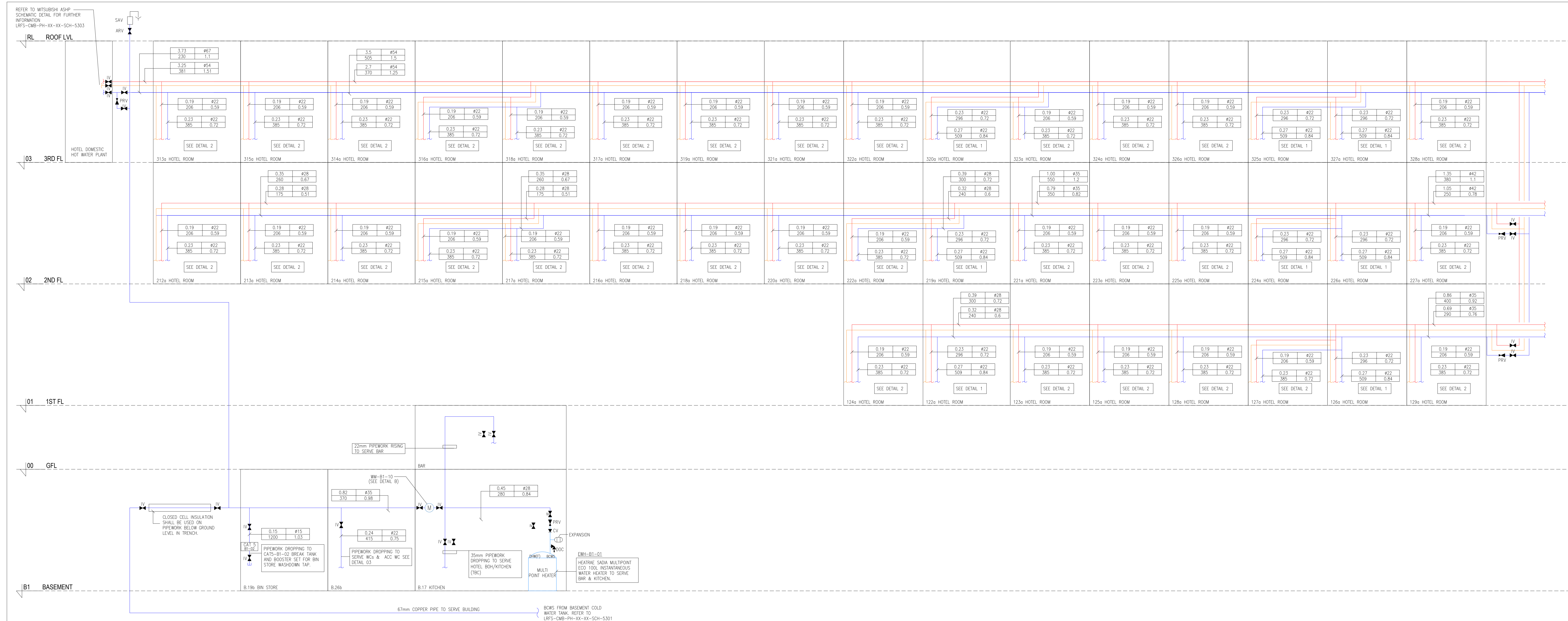
FLOW RATE (l/s)	HEADLOSS (Pa/m)	VELOCITY (m/s)
XXX	XXX	XXX



P02	13.06.24	TO INCORPORATE COMMENTS	KD	CC	LM
P01	16.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	KD	CC	LM
Rev.	Date	Description	By	Chk'd	App'd
Drawing Suitability			Status		



Client					
ALLIED LONDON					
Project Title					
LONDON ROAD FIRE STATION					
FIRE STATION, LONDON ROAD, MANCHESTER, M1					
Drawing Title					
DOMESTIC SERVICES SCHEMATIC					
LANDLORD AND NON-HOTEL AREAS					
Scale	Designed	Drawn	Checked	Authorised	
NTS	CC	KD	CC	LM	
Original Size	Date	Date	Date	Date	
A0	16/04/24	16/04/24	16/04/24	16/04/24	
Drawing Number				Revision	
LRFS-CMB-PH-XX-SC-5301				P02	



- 1. NOT TO SCALE FROM THIS DRAWING
 - 2. ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO FIXING OF PARTS, OVERHEADS, SPECIFICATIONS OR CONVENIENT WORKS.
 - 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATIONS, DRAWINGS, SPECIFICATIONS AND SCHEDULES.
 - 4. ALL PENTRATION THROUGH FLOOR, SLAB STRUCTURAL, CONCRETE, PARTS BEFORE COMPLETION.
 - 5. ALL PLUMB AND EQUIPMENT SHALL BE INSTALLED FIRST IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
- HOT & COLD WATER SERVICES REQUIREMENTS**
- 1. ALL DOMESTIC WATER SERVICES PIPING IS TO BE INSTALLED IN CONCORD WITH A THICKNESS IN ACCORDANCE WITH SANS 10252.
 - 2. ALL FITTINGS USED WITHIN THE DOMESTIC WATER SYSTEM SHALL BE APPROVED AND SUITABLE FOR USE IN A POTABLE WATER ENVIRONMENT.
 - 3. EXCESSIVE MAKE-UP WATER PRESSURE AT THE POINT OF USE SHALL BE REDUCED BY THE USE OF PRESSURE REDUCING VALVES IF NECESSARY.
 - 4. BAKULITY SOLUTION VALVES SHALL BE INSTALLED WITHIN THE HOUSEHOLD TO PREVENT ANY ONE VALVE OPENING THESE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF USE. VALVE ACTUATION SHALL BE OPERATED FOR THESE FALLS OF LEAKAGE.
 - 5. ALL DOMESTIC WATER SERVICES PIPWORK SHALL BE INSULATED WITH FOLIO FACED MATERIAL, FIBRE SECTION TO BE USED TO PREVENT CONDENSATION WITHIN EXTERIOR, OF UNFINISHED SPACES SHALL BE PROVED INSULATED AND IF THERE IS A RISK OF VALVE ACTUATION SHALL BE OPERATED FOR THESE FALLS OF LEAKAGE.
 - 6. FIRE STOPPING IS TO BE PROVIDED AT ALL INSTANCES WHERE PIPWORK PASSES THROUGH A FIRE COMPARTMENT.
 - 7. DISCHARGE FROM ALL SAFETY AND RELIEF VALVES SHALL BE DIRECTED TO A DRAIN OR TO THE NEAREST AVAILABLE RAIN GUT IN A SAFE AND CONSPICUOUS LOCATION.
 - 8. ALL NEW MAIN PIPWORK IS TO BE PROVIDED WITH IDENTIFICATION TO BS 1970, INCLUDING DETECTION OF FLOW AND PRESSURE LOSS.
 - 9. ALL HOT & COLD WATER SERVICES TO BE FLUSHED & STERILIZED IN ACCORDANCE WITH BS EN 806.
 - 10. ALL PIPWORK TO BE BORED IN TO ARCHITECT'S REQUIREMENT.
 - 11. ALL SANITARY WARE, TAPS, SHOWER MIXERS, SHOWER HEADS, BATHS, SINKS, SQUEEZE BAR, SHOWER GLASS, SHOWER ENCLOSURE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SYMBOLS LEGEND

	MAINS COLD WATER (MOWS)
	BOSSIED COLD WATER SERVICES ('BOWS)
	WATER METER
	ISOLATION VALVE
	STOPCOCK
	PRESSURE REDUCING VALVE
	AUTOMATIC AIR VENT
	DOUBLE CHECK VALVE
	CHECK VALVE
	DIFFERENTIAL PRESSURE SWITCH
	NON-RETURN VALVE
	DRAIN OFF COCK
	DRAIN OFF COCK
	STRAINER
	SLUICE ARRESTOR VALVE
	THERMOSTATIC MIXING VALVE

CROSSHAIR LEGEND:

DIAMETER (mm)

FLOW RATE (l/s) → X.XX .XX

HEADLOSS (Pa/m) → XXX X.XX

VELOCITY (m/s)

P01	16.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	KD	CC	LM
Rev	Date	Description	By	Chk'd	App'd

Ref	Date	Description	Dr	Cr	Page
Drawing Suitability					Status



Client	
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ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION

FIRE STATION, LONDON ROAD, MANCHESTER, M1

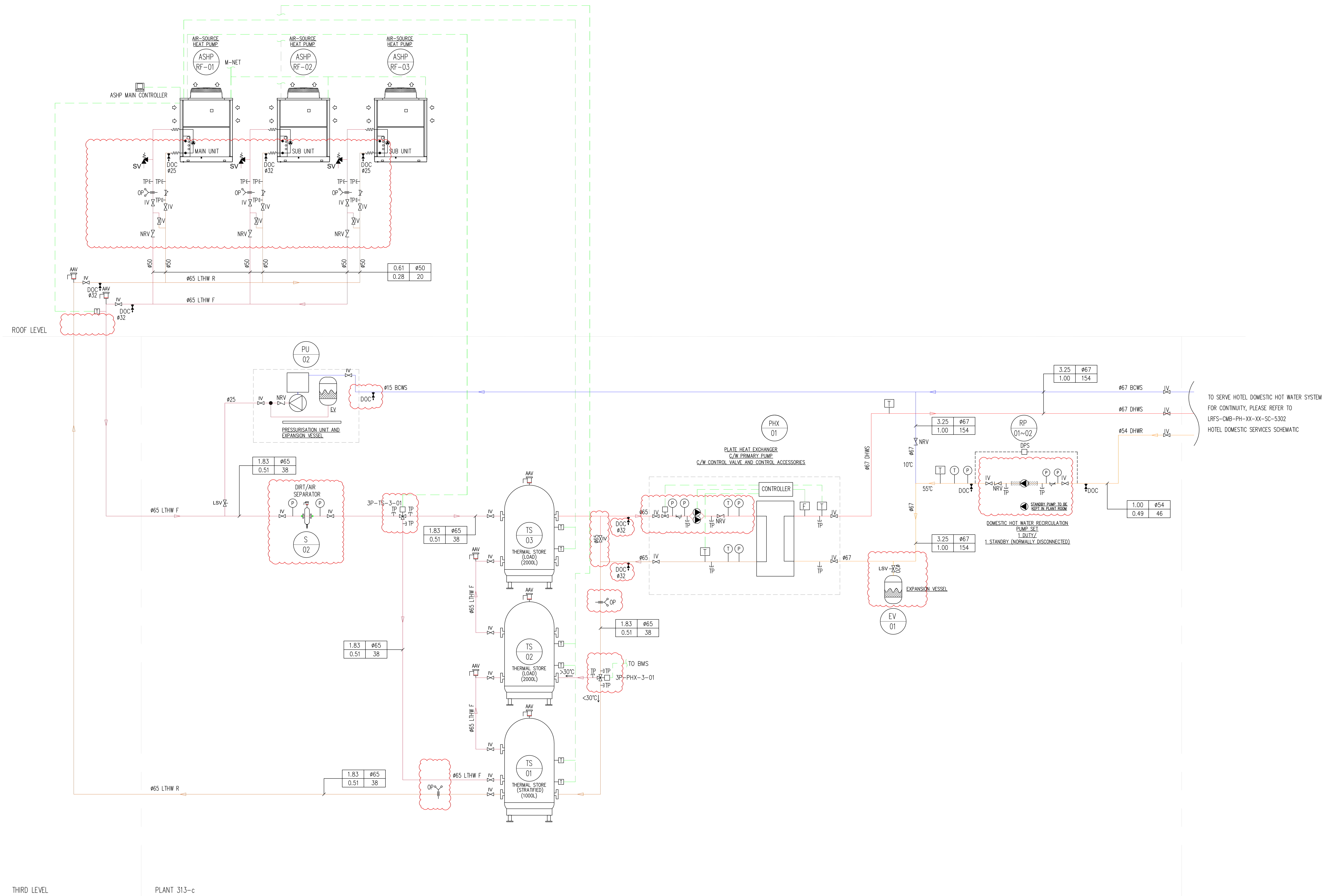
Drawing Title

DOMESTIC SERVICES SCHEMATIC
HOTEL

Scale NTS	Designed CC	Drawn KD	Checked CC	Authorised LM
Original Size A0	Date 16/04/24	Date 16/04/24	Date 16/04/24	Date 16/04/24

FOR CONTINUATION SEE ABOVE

100
0 10
Millimetres



NOTES

- DO NOT SCALE FROM THIS DRAWING
- ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO FABRICATION OF PARTS, ORDERING MATERIALS OR COMMENCING WORKS
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS, SPECIFICATIONS AND SCHEDULES.
- ANY PENETRATION THROUGH FLOOR, SEEK STRUCTURAL ENGINEERS APPROVAL BEFORE COMMENCEMENT.
- ALL PLANT AND EQUIPMENT SHALL BE INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

HOT & COLD WATER SERVICES INSTALLATION

- ALL DOMESTIC WATER SERVICES PIPEWORK IS TO BE INSTALLED IN COPPER WITH A THICKNESS IN ACCORDANCE WITH BS2871 TABLE X.
- ALL FITTINGS USED WITHIN THE DOMESTIC WATER SYSTEM SHALL BE WRAS APPROVED AND SUITABLE FOR USE IN A POTABLE WATER ENVIRONMENT.
- EXCESSIVE MAINS WATER PRESSURE AT THE POINT OF USE SHALL BE MITIGATED THROUGH THE USE OF PRESSURE REDUCING VALVES IF NECESSARY.
- BALLOFIX ISOLATION VALVES SHALL BE INSTALLED WITHIN THE DOMESTIC WATER SERVICES PIPEWORK TO EACH OUTLET, THESE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE OUTLET AND THE VALVE ACTUATION SHALL BE ORIENTATED FOR EASE OF ISOLATION.
- ALL DOMESTIC WATER SERVICES PIPEWORK SHALL BE INSULATED WITH FOL FACED MINERAL FIBRE SECTIONS TO BS 3998. IN ADDITION ANY PIPEWORK WITHIN EXTERNAL OR UNHEATED SPACES SHALL BE DOUBLE INSULATED AND IF THERE IS A RISK OF FREEZING TRACE HEATED.
- FIRE STOPPING IS TO BE PROVIDED AT ALL INSTANCES WHERE PIPEWORK PASSES THROUGH A FIRE COMPARTMENT.
- DISCHARGE FROM ALL SAFETY AND RELIEF VALVES ARE TO DISCHARGE TO DRAIN VIA A TUNDRY WITH A VISIBLE AIR CAP IN A SAFE AND CONSPICUOUS LOCATION.
- ALL NEW MAINS PIPEWORK IS TO BE PROVIDED WITH IDENTIFICATION TO BS 1710, INCLUDING DIRECTION OF FLOW AT REGULAR INTERVALS (MAX 5m).
- ALL HOT & COLD WATER SERVICES TO BE FLUSHED & STERILIZED IN ACCORDANCE WITH BS EN 806.
- ALL PIPEWORK TO BE BOXED IN TO ARCHITECT'S REQUIREMENT.
- ALL SANITARY WARE, TAPS, SHOWER MIXERS, SHOWER HEADS ETC TO BE INSTALLED AS SPECIFIED BY ARCHITECT.

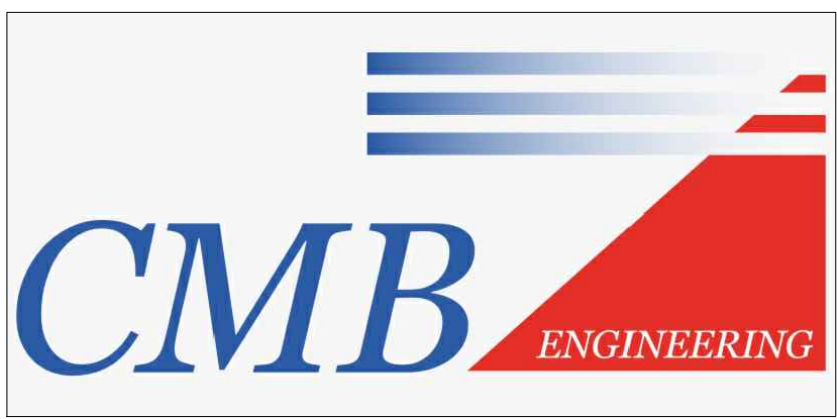
LEGEND

- IV ISOLATING VALVE
- DRV DOUBLE REGULATING VALVE
- NRV NON RETURN VALVE
- LSV LOCK SHIELD VALVE
- SV SAFETY VALVE
- COM COMMISSIONING VALVE
- MTV MOTORIZED VALVE
- ST STRAINER
- DOC DRAIN COCK
- AVT AUTOMATIC AIR VENT
- BT BENDER TEST POINT
- FC FLEXIBLE CONNECTION
- PG PRESSURE GAUGE
- TS TEMPERATURE SENSOR
- TG TEMPERATURE GAUGE
- P PUMP
- DPCV DIFFERENTIAL PRESSURE CONTROL VALVE
- GM GAS METER
- EM ENERGY METER
- OP OFFICE PLATE METERING STATION

P02	07.11.24	REVISED PER COMMENTS	CC	OW	LM
P01	16.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	KD	CC	LM
Rev.	Date	Description	By	Chk'd	App'd

Drawing Suitability

Status



Client

ALLIED LONDON

Project Title
LONDON ROAD FIRE STATION
FIRE STATION, LONDON ROAD, MANCHESTER, M1

Drawing Title
MECHANICAL SERVICES
HOTEL DOMESTIC HOT WATER PLANT SCHEMATIC

Scale	NTS	Designed	CC	Drawn	KD	Checked	CC	Authorised	LM
Original Size	A0	Date	16/04/24	Date	16/04/24	Date	16/04/24	Date	16/04/24

Drawing Number
LRFS-CMB-PH-XX-XX-SC-5303

Revision
P02