

22mm BOWS PIPEWORK FROM ABOVE TO HL TO SERVE WC'S

22mm BOWS PIPEWORK FROM ABOVE TO BELOW TO SERVE BAYNET

CAT5/02/01 BREAK TANK AND BOOSTER SET FOR BIN STORE WASHDOWN TAP

22mm BOWS PIPEWORK FROM HL TO LL TO SERVE CAT-5 TANK AND BOOSTER

28mm BOWS PIPEWORK FROM ABOVE TO BRANCH OFF TO HL TO SERVE BIN STORE 22mm BOWS PIPEWORK DROPS TO BELOW

22mm BOWS AT HIGH LEVEL TO SPAN THE BIN STORE C/W TRACE HEATING AND INSULATION PRIOR TO ENTERING RISER AND DROPPING TO BELOW GROUND IN A PRE-INSULATED PIPE, PRESSURE TESTED, CHLORINATED AND CAPPED BELOW GROUND AND WITHIN RISER 10

BOWS PIPEWORK IS TO BE ROUTED IN THE SAME TRENCH AS THE NEW PROPOSED ELECTRICAL SERVICE FOR THE COURTYARD

BELOW GROUND BOWS TO BE INSTALLED AT <750mm AND CAPPED FOR FUTURE SERVICES IN THE COURTYARD PIPEWORK IS TO BE LAID BELOW GROUND IN A PRE-INSULATED PIPE, PRESSURE TESTED, CHLORINATED AND CAPPED BELOW GROUND AND WITHIN RISER 10

22mm BOWS PIPEWORK FROM HL TO LL TO SERVE EWH/00/01 AND BOWS TO WC'S WHB & WC LOCATIONS ARE INDICATIVE

22mm BOWS PIPEWORK FROM HL TO LL TO SERVE EWH/00/01

BOWS, HWS & HWSR PIPEWORK BRANCHES TO LL TO SERVE TO WC'S

BOWS, HWS & HWSR PIPEWORK BRANCHES TO LL TO SERVE TO WC'S BOWS PIPEWORK BRANCHES TO HL TO SERVE BAR

HWS PIPEWORK FROM ABOVE TO BELOW TO SERVE HOTEL BACKWASH HWSR & BOWS PIPEWORK FROM BELOW ABOVE

HWSR, HWS & BOWS PIPEWORK TO BRANCH OFF TO HL TO SERVE WC'S & BAR

BOWS PIPEWORK FROM BELOW TO SERVE UNIT D

15mm BOWS PIPEWORK FROM BELOW TO LL TO SERVE ACC. WC. WC & WHB LOCATIONS ARE INDICATIVE

15mm BOWS PIPEWORK FROM BELOW TO LL TO SERVE ACC. WC. WHB & WC LOCATIONS ARE INDICATIVE

ELECTRIC POINT OF USE WATER HEATER TO SERVE ACC. WC

15mm BOWS PIPEWORK FROM BELOW TO LL TO SERVE THE WC. WHB & WC LOCATIONS ARE INDICATIVE

ELECTRIC POINT OF USE WATER HEATER TO SERVE WC

22mm BOWS PIPEWORK FROM LL TO SERVE EWH/00/01

22mm BOWS PIPEWORK FROM HL TO LL TO SERVE THE WC. WHB & WC LOCATIONS ARE INDICATIVE

67mm BOWS PIPEWORK FROM BELOW TO BRANCH OFF TO HL TO SERVE UNIT E AND UNIT H 54mm BOWS PIPEWORK TO ABOVE

NOTES

- DO NOT SCALE FROM THIS DRAWING
 - ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION OF PARTS, FIXING 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 PLUMB AND EQUIPMENT SHALL BE INSTALLED FULLY IN ACCORDANCE WITH BS EN 1057 + A1:2010
- #### HOT & COLD WATER SERVICES INSTALLATION
- ALL COMMERCIAL & EXPOSED DOMESTIC WATER SERVICES PIPEWORK IS TO BE INSTALLED IN COPPER WITH A THICKNESS IN ACCORDANCE WITH BS EN 1057 + A1:2010
 - ALL EXPOSED PIPEWORK IN KITCHEN AND BATHROOM AREAS SHALL BE CHROME
 - ALL FITTINGS USED WITHIN THE DOMESTIC WATER SYSTEM SHALL BE BRASS 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
 - QUALITY 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 PROVIDED FOR EASE OF ISOLATION
 - ALL DOMESTIC WATER SERVICES PIPEWORK SHALL BE INSULATED WITH FOAM FILL MINERAL FIBRE SECTION TO BS 5488 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 THROUGH WITH A VISIBLE AIR GAP IN A SAFE AND CONSPICUOUS LOCATION
 - ALL NEW MAINS PIPEWORK IS TO BE PROVIDED WITH IDENTIFICATION TO BS 1700, INCLUDING DIRECTION OF FLOW AT REGULAR INTERVALS (MIN 5m)
 - ALL HOT & COLD WATER SERVICES TO BE FLUSHED & STERILISED IN ACCORDANCE WITH BS EN 106
 - ALL PIPEWORK TO BE BORED 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 TMO2
 - HEAT INTERFERENCE UNIT MOUNTED AT LOW LEVEL PROVIDING BOTH UPON HEATING AND DOMESTIC HOT WATER HEATS 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

LEGEND

- MAINS COLD WATER (MWC)
 - BOOSTED COLD WATER SERVICES (BCWS)
 - HOT WATER SERVICES FLOW (HWSF)
 - HOT WATER SERVICES RETURN (HWSR)
 - PIPEWORK IN CEILING VOID
 - PIPEWORK AT LOW LEVEL
 - PIPEWORK IN FLOOR VOID
 - ISOLATION VALVE
 - PRESSURE REDUCING VALVE
 - DOUBLE CHECK VALVE
 - MIXING VALVE
 - THERMOSTATIC MIXING VALVE
 - STOP COCK
 - THERMAL BALANCING VALVE
- #### ABBREVIATIONS
- HL - HIGH LEVEL
 - LL - LOW LEVEL
 - RTA - RISE TO ABOVE
 - FB - FROM BELOW
 - CV - CEILING VOID
 - DTLL - DROP TO LOW LEVEL
 - WHB - WASH HAND BASIN
 - AP - ANCHOR POINT
 - EB - EXPANSION BELOW

FOR COMMENT
NOT FOR SITE USE

Revision	Description	Rev	Drawn	Check
11.04.22	TENDER ISSUE	12	WJ	RG
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CONSOLUX
CONSOLUX M&E CONSULTING LTD.
MECHANICAL & ELECTRICAL CONSULTING ENGINEERS

London Office
25 Redcross
London W1J 0DQW
Tel: +44 (0)207 724 3030
Fax: +44 (0)207 617 7185
mail@consolux.co.uk

Unleashed Office
Unleashed L2 9R
The Caters Exchange
Tel: +44 (0)151 758 9469
Fax: +44 (0)151 757 7199
www.consolux.co.uk

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

Drawing Title
MECHANICAL SERVICES
GROUND FLOOR
DOMESTIC WATER LAYOUT

Date:	Design By:	Drawn By:	Scale:
APR 21	GT	KDC	1:100

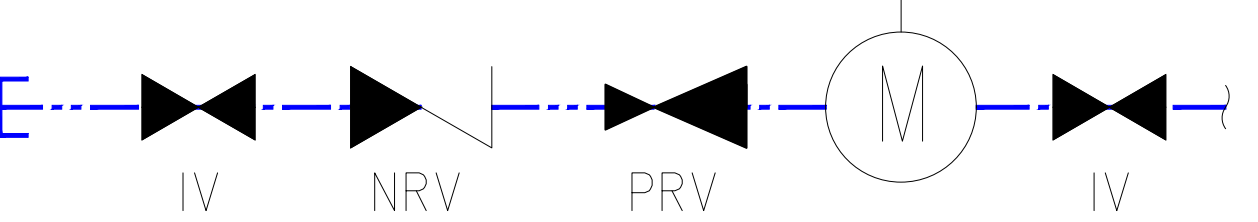
Issue Status
TENDER

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Rev
T5

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01
83-D-06
TYPICAL VALVE ARRANGEMENT