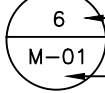
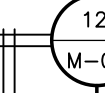
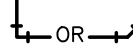
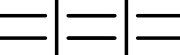
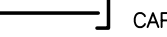
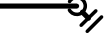


DAY OF PERPETUAL HELP PARISH
 CHURCH ALTERATIONS
 78 CLIFTON RD.,
 TORONTO, ON, M4T 2G2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP OR FROM ABOVE		ACOUSTICALLY LINED TRANSFER AIR DUCT
	SUPPLY DUCT DOWN OR FROM BELOW		SILENCER
	RETURN OR EXHAUST DUCT UP OR FROM ABOVE		CROSSTALK SILENCER
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
	ROUND DUCT UP OR FROM ABOVE		DUCT WITH SLEEVE, INSULATION AND DAMPER
	ROUND DUCT DOWN OR FROM BELOW		CAPPED CONNECTION
	ACOUSTIC LINED DUCT		MOTOR OPERATED DAMPER
	FLEXIBLE CONNECTION		BALANCING DAMPER
	SQUARE ELBOW DUCT WITH TURNING VANE		SOUND BAFLE
	RADIUS ELBOW WITH TURNING VANES		SPEED SWITCH
	AXIAL FAN/INLINE FAN		ELECTRIC THERMOSTAT/SENSOR
	CENTRIFUGAL FAN		PNEUMATIC THERMOSTAT
DIFFUSER GRILLE OR REGISTER TYPE NECK OR FACE SIZE (MM) AIR FLOW (L/s)			
	ROUND SUPPLY DIFFUSER		SUPPLY AIR BOOT DIFFUSER C/W FLEXIBLE DUCT
	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE		LIGHT TROFFER DIFFUSER TOP INLET C/W FLEXIBLE DUCT
	SQUARE OR RECTANGULAR DIFFUSER		LIGHT TROFFER DIFFUSER SIDE INLET C/W FLEXIBLE DUCT
	NON DUCTED RETURN OR EXHAUST GRILLE		DUCT MOUNTED SUPPLY OR RETURN GRILLE
	NON DUCTED ROUND RETURN OR EXHAUST GRILLE		LINEAR SUPPLY OR RETURN GRILLE
	SQUARE PLAQUE DIFFUSER		SPIN-IN CONNECTION C/W BALANCING DAMPER AND FLEX DUCT
	DIFFUSERS WITH BLANK-OFF PORTION (QTY SHOWN)		SPIN-IN CONNECTION C/W BALANCING DAMPER AND RIGID DUCT
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

4 AIR HANDLING SYMBOLS AND ABBREVIATIONS
(MSD-0115)

SYMBOL		DESCRIPTION	
	DETAIL NUMBER DRAWING NUMBER		SECTION NUMBER DRAWING NUMBER
	REVISION NUMBER		REVISION BUBBLE
R.I.O.	ROUGH IN ONLY	N.O.	NORMALLY OPEN
R.I.C.	ROUGH IN AND CONNECT	N.C.	NORMALLY CLOSED
A.D.	ACCESS DOOR	S.S.	STAINLESS STEEL
	PIPING SERVICE CONTINUES		ELBOWS
	REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED		TEE
	EQUIPMENT/PIPING/DUCTWORK SHOWN DASHED BELOW		BRANCH OFF BOTTOM OF MAIN
	PIPING INTERSECTS PIPING BELOW		BRANCH OFF TOP OF MAIN
	PIPE DROP OR FROM BELOW		DIRECTION OF FLOW
	PIPE UP OR FROM ABOVE		GLYCOL SUPPLY
	CAP CONNECTION		GLYCOL RETURN
	VENT		
	FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		FLOOR DRAIN FROM ABOVE WITH TRAP
	SANITARY ABOVE GRADE OR FLOOR		C.O. HORIZONTAL CLEANOUT
	SANITARY BELOW GRADE OR FLOOR		C.O. CLEANOUT IN RISER
	DOMESTIC COLD WATER (DCW)		NATURAL GAS
	DOMESTIC HOT WATER (DHW)		
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

3 GENERAL AND SITE PLAN SYMBOLS AND ABBREVIATIONS
M-001 N.T.S.

[illegible]

1 VALVES AND APPURTENANCES
M-001 (MSD-0105)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE VALVE		PIPE GUIDE
	GLOBE VALVE		PIPE SLEEVE
	BALL VALVE		ANCHOR
	LOCKSHIELD VALVE		STRAINER
 F.B.V.	FLOW BALANCING VALVE		UNION
 P.I.F.B.V.	PRESSURE INDEPENDENT FLOW BALANCING VALVE		FLANGE FITTING
	PLUG VALVE		ECCENTRIC FITTING
	PRESSURE REDUCING VALVE		CONCENTRIC FITTING
	CHECK VALVE		PRESSURE GAUGE
	SOLENOID VALVE		THERMOMETER
 S.R.V.	SAFETY RELIEF VALVE		PRESSURE GAUGE COCK ASSEMBLY
 F.M.S.	FLOW METERING STATION		THERMOMETER WELL
 B.P.	BACKFLOW PREVENTOR		EXPANSION JOINT
	ANGLE VALVE	 M.V.	MANUAL AIR VENT
	ANCHOR	 A.V.	AUTOMATIC AIR VENT
	BUTTERFLY VALVE		AIR SEPARATOR
	2-WAY BUTTERFLY VALVE	 S.G.	SIGHT GLASS
 C.V.	3 WAY CONTROL VALVE		PUMP
			P.R.V. C/W SHUT-OFF VALVE
VB	VACUUM BREAKER		P.R.V. STATION
B.W.V.	BACK WATER VALVE		FLOW SWITCH

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

2 VALVES AND APPURTENANCES
M-001 (MSD-0105)

04	2015/12/04	ISSUED FOR TENDER
03	2015/10/28	ISSUED FOR PERMIT
02	2015/10/08	ISSUED FOR REVIEW
01	2015/09/02	ISSUED FOR REVIEW
REV.	DATE	ISSUED

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OUR LADY OF
PERPETUAL HELP CHURCH
RENOVATIONS & ADDITIONS

TORONTO, ONTARIO

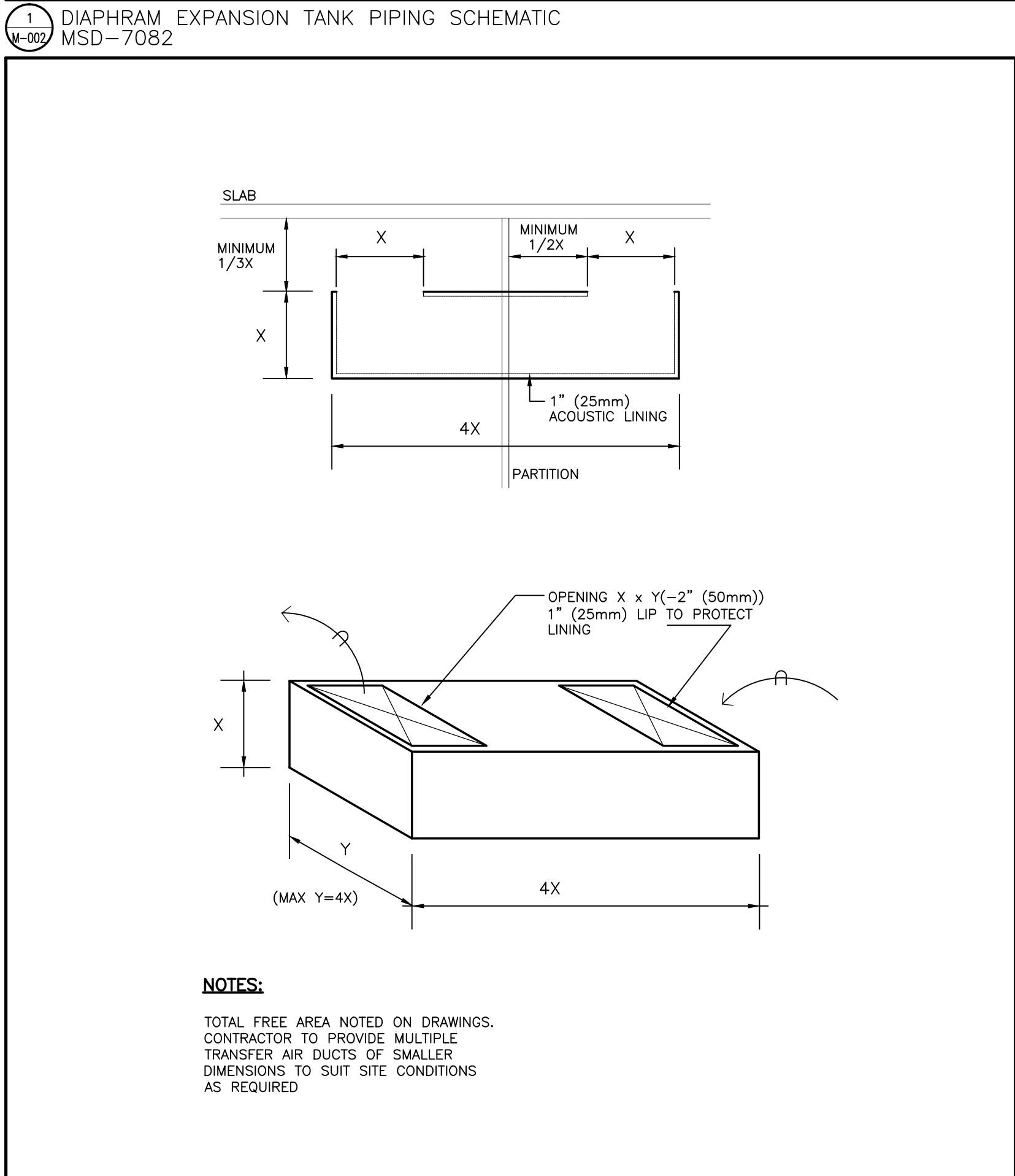
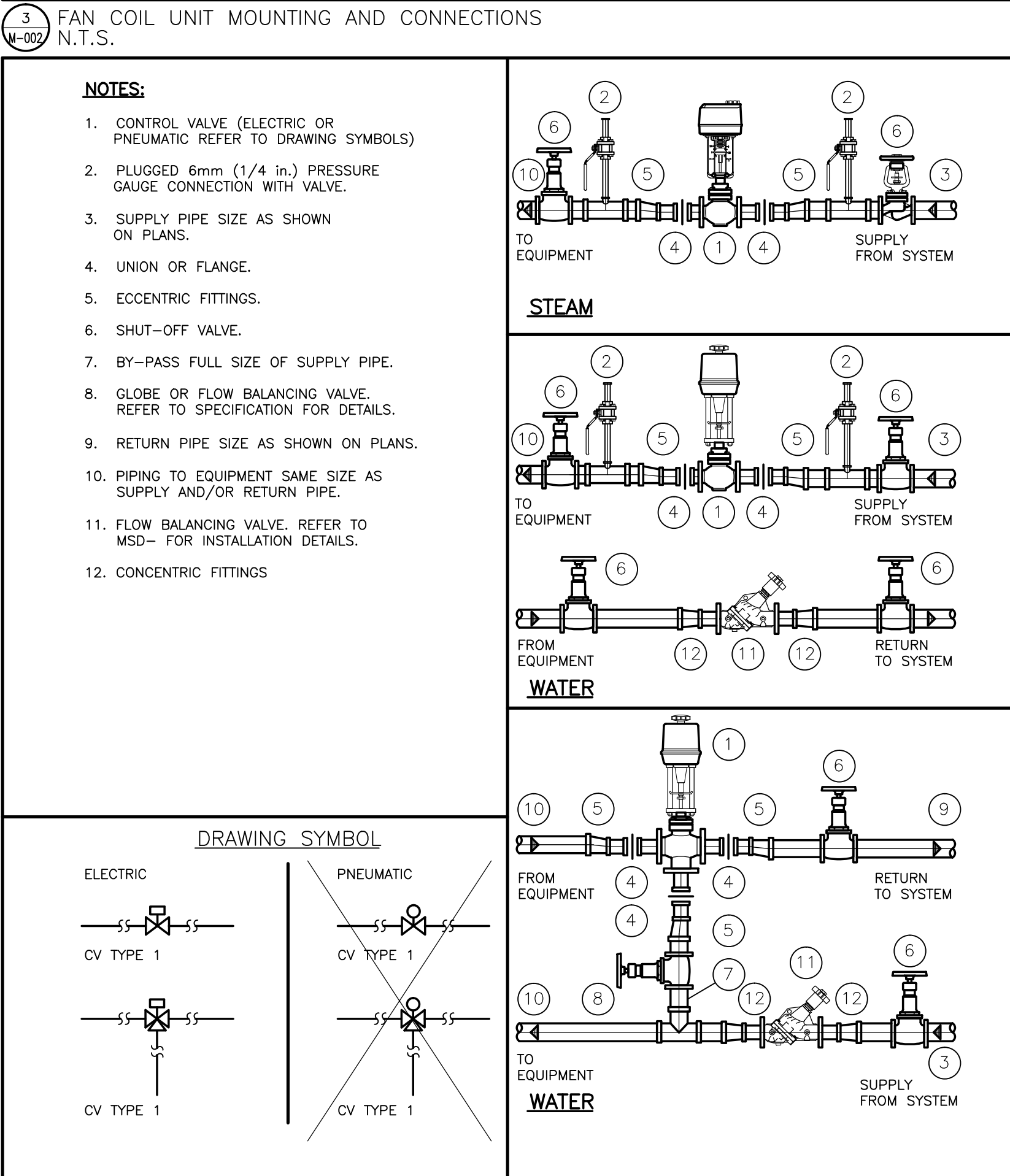
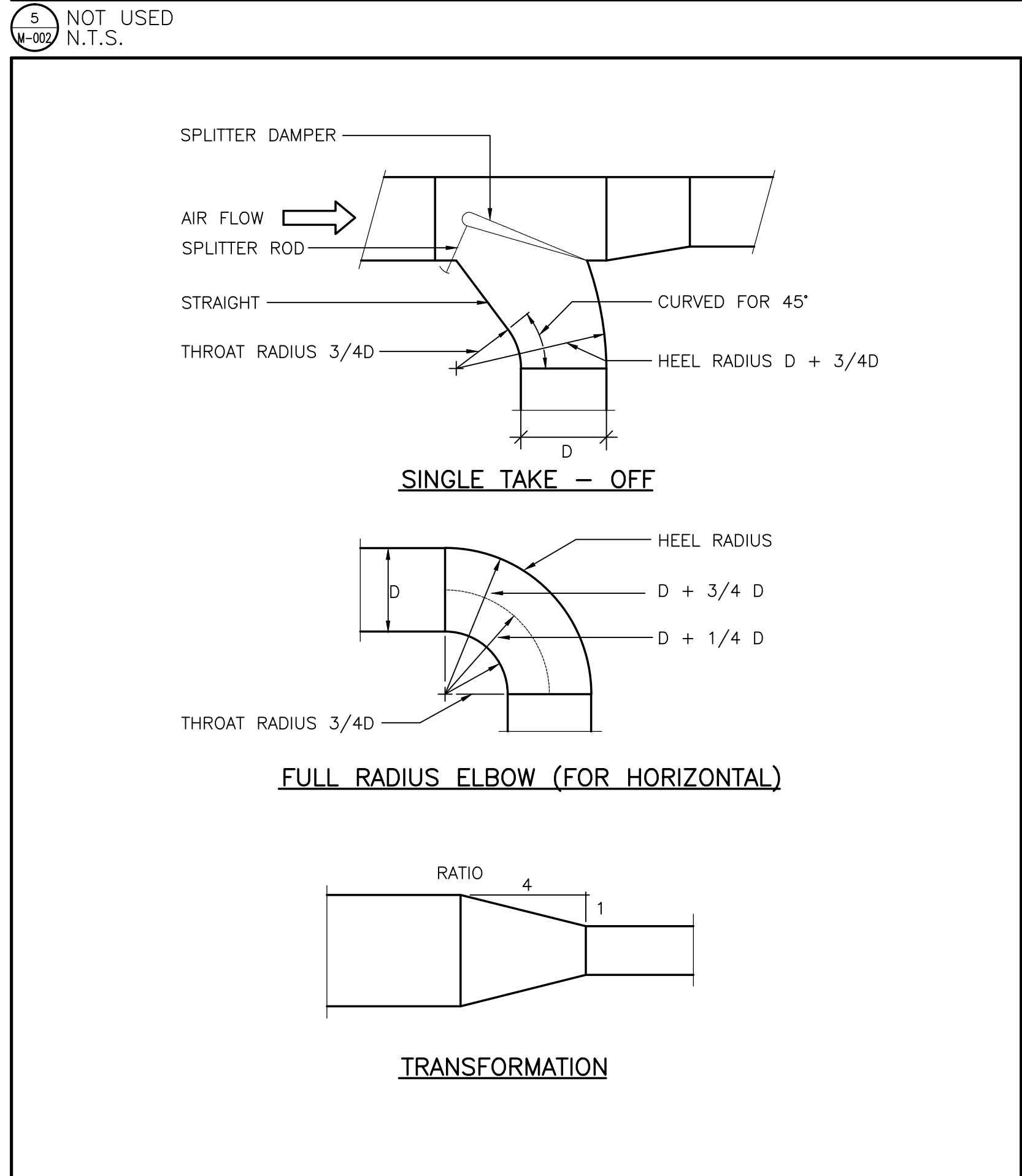
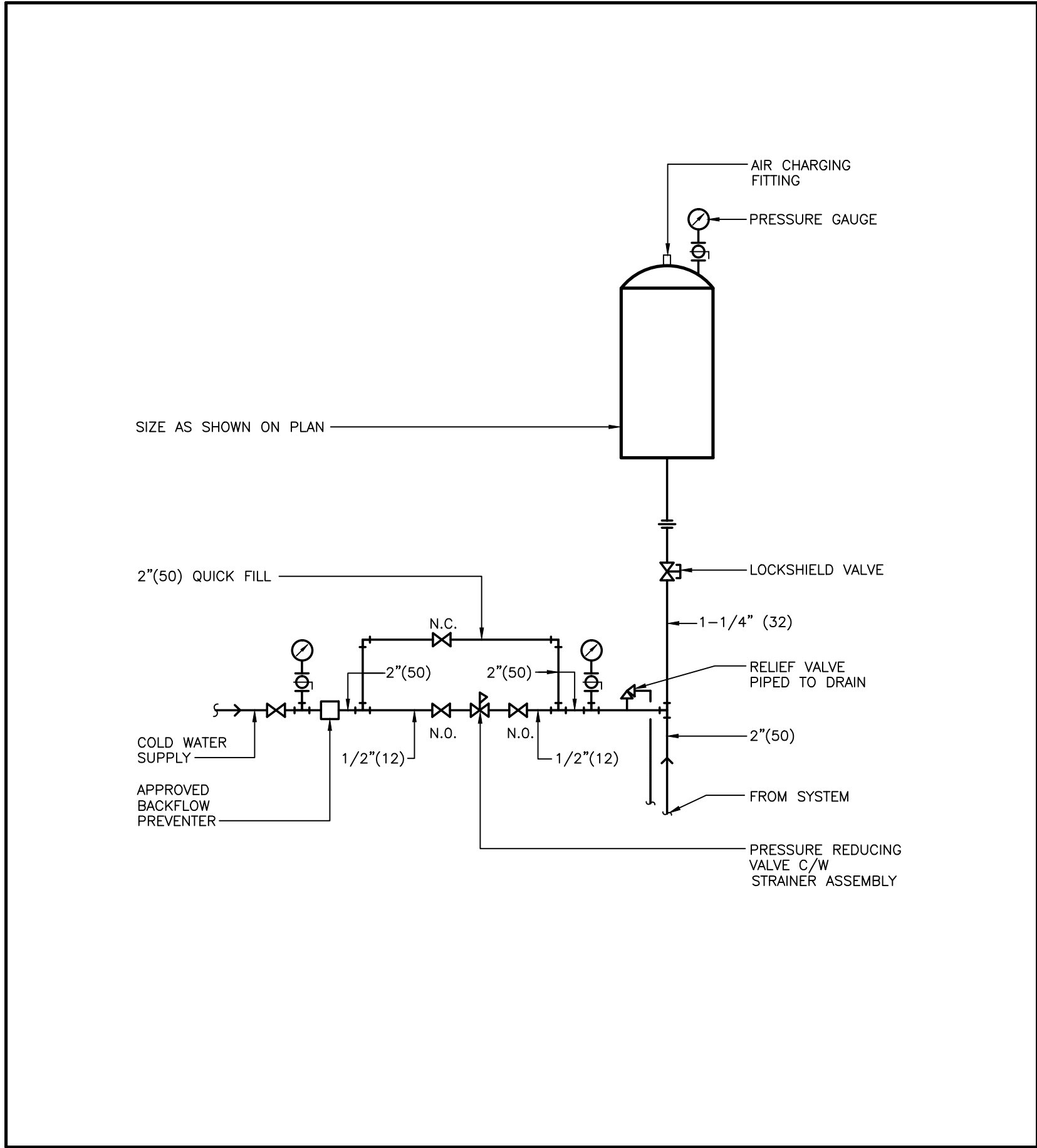
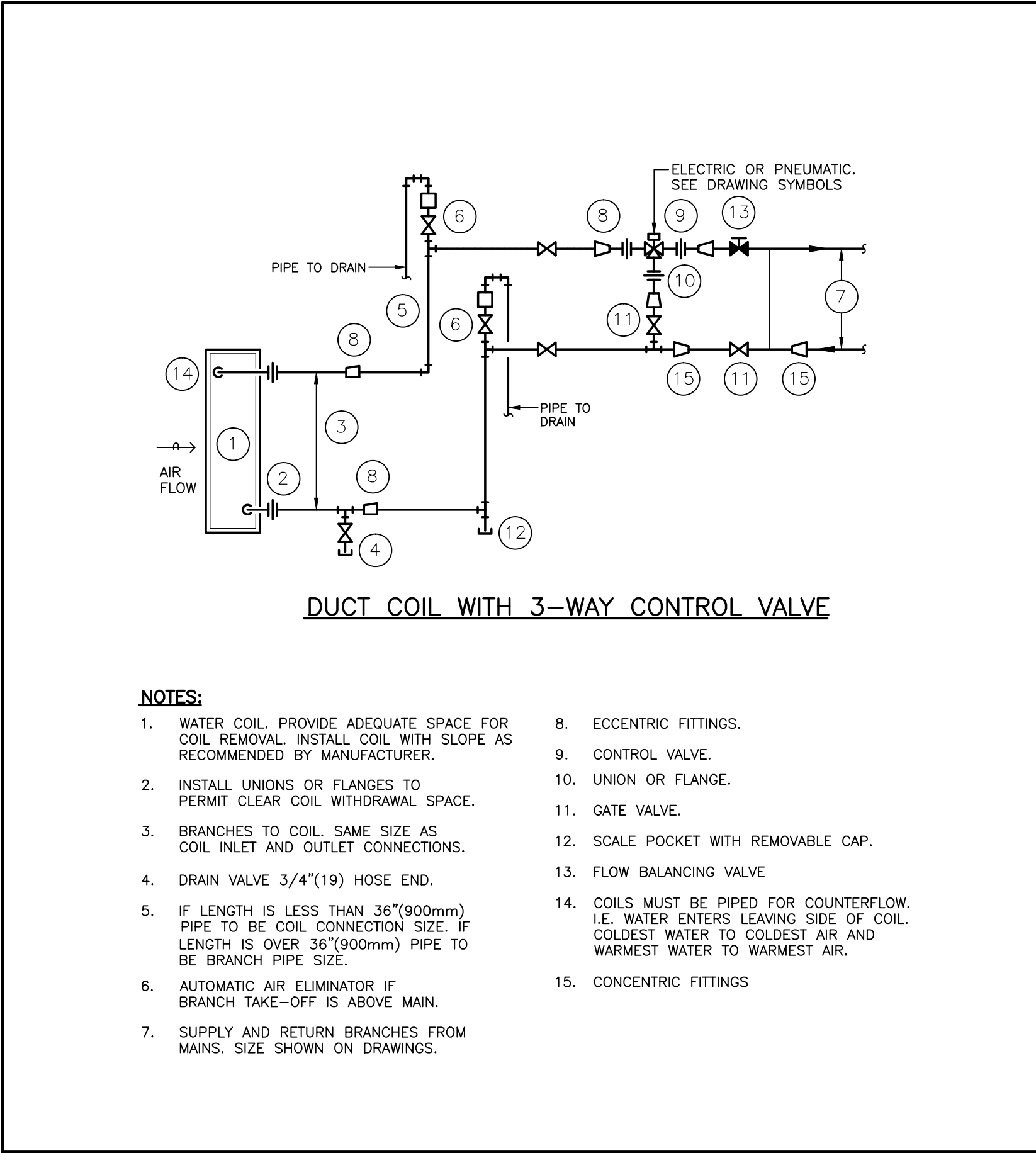
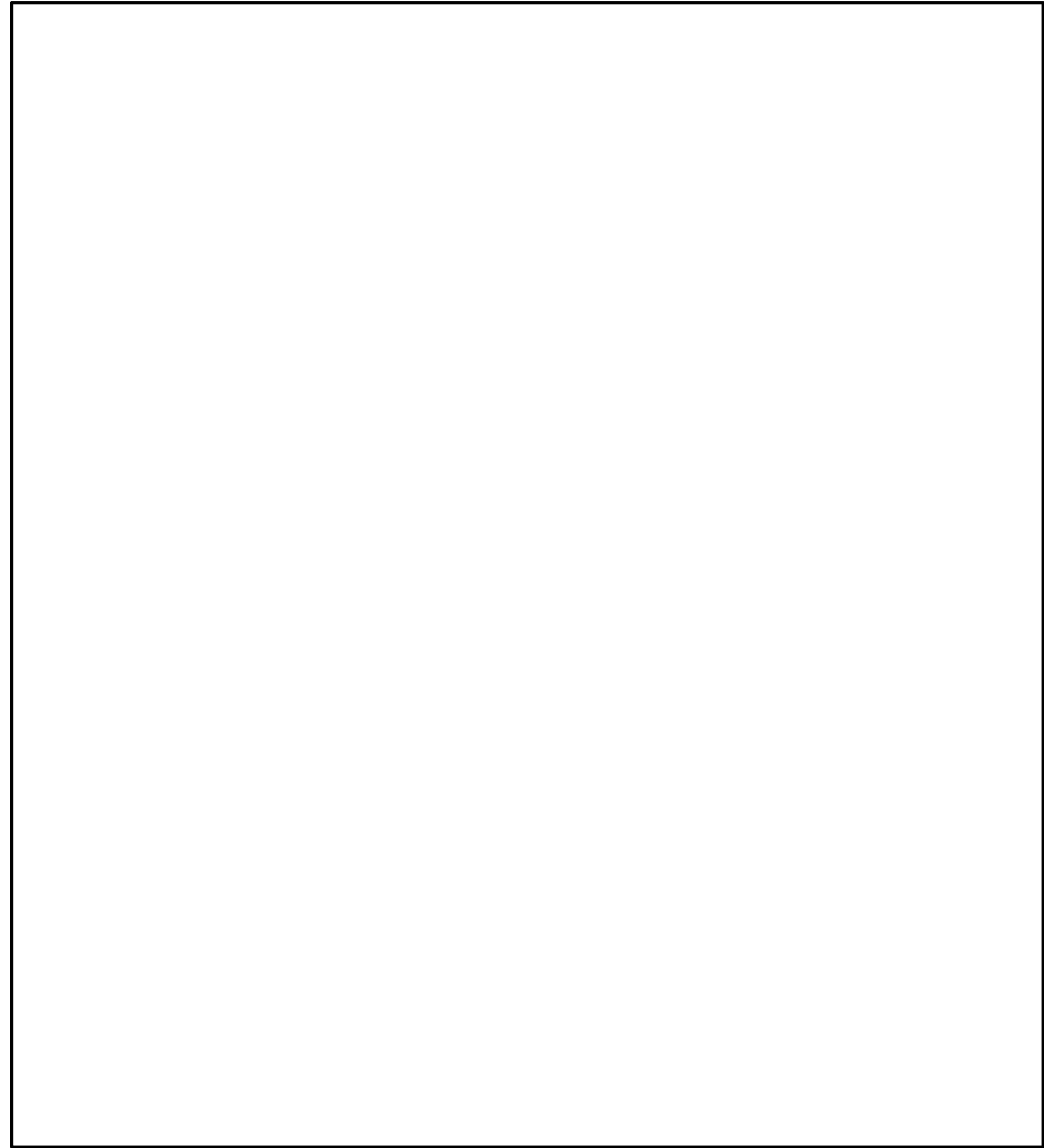
Our Lady of Perpetual Help Parish
78 Clifton Road
Toronto, ON M4T 2G2



Smith + Andersen
4211 Yonge Street Suite 500 Toronto Ontario M2P 2A9
416 487 8151 f 416 487 9104 smithandandersen.com
S+A PROJECT NUMBER: 14214.002.M.001

Title :
MECHANICAL
DRAWING LIST
AND LEGEND

Drawn : VG	Scale : N.T.S.	Date : 04/22/2015
Project Number : 12062	Drawing Number :	MOO1
Drawing Stage: CD		



6 NOT USED
N.T.S.

3 FAN COIL UNIT MOUNTING AND CONNECTIONS
N.T.S.

1 DIAPHRAM EXPANSION TANK PIPING SCHEMATIC
MSD-7082

OUR LADY OF PERPETUAL HELP CHURCH RENOVATIONS & ADDITIONS

TORONTO, ONTARIO

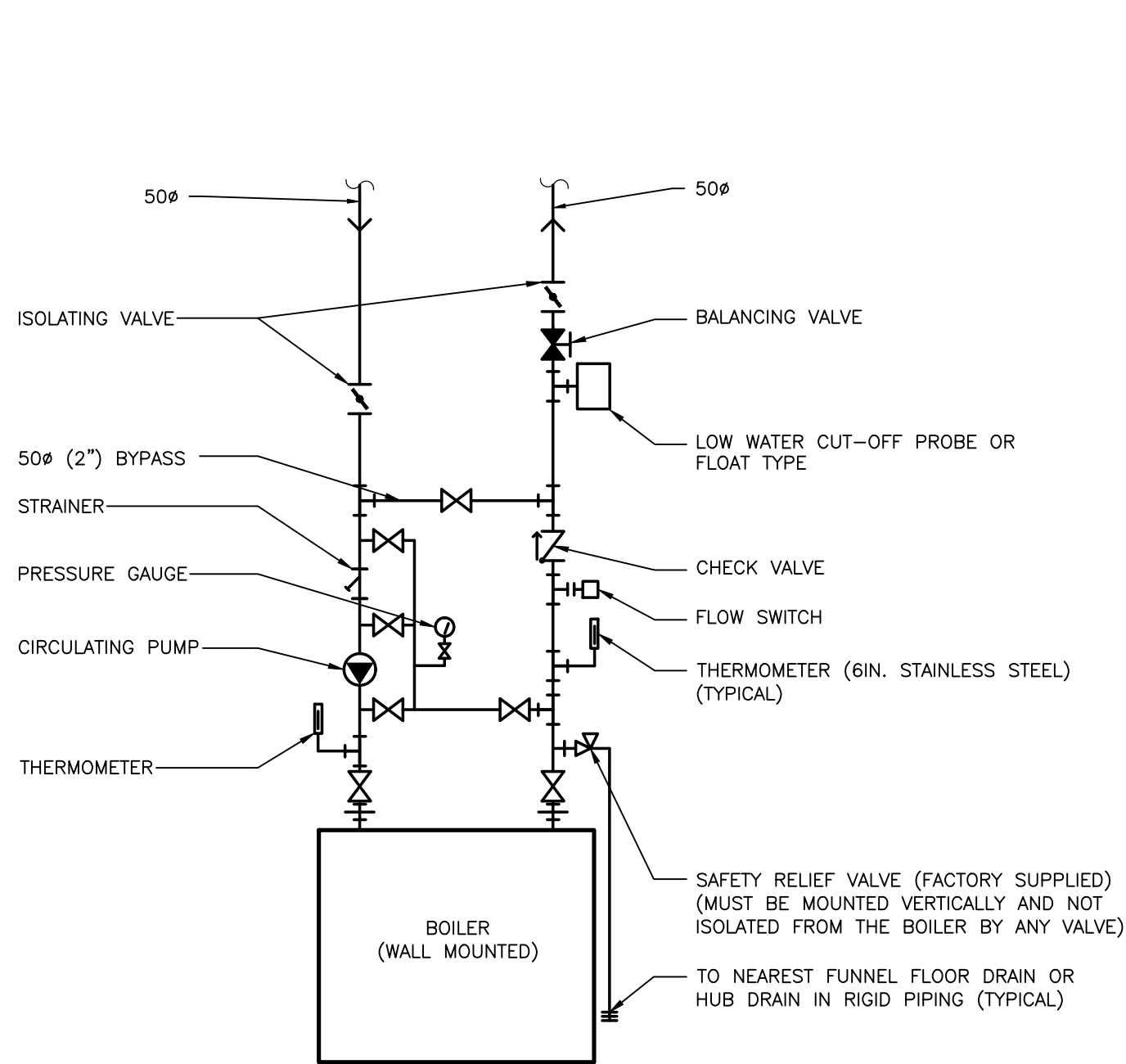
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S+A PROJECT NUMBER: 14214.002.M.001

Title:
MECHANICAL STANDARD DETAILS

Drawn : VG	Scale : N.T.S.	Date : 04/22/2015
Project Number : 12062	Drawing Number :	M002
Drawing Stage : CD		

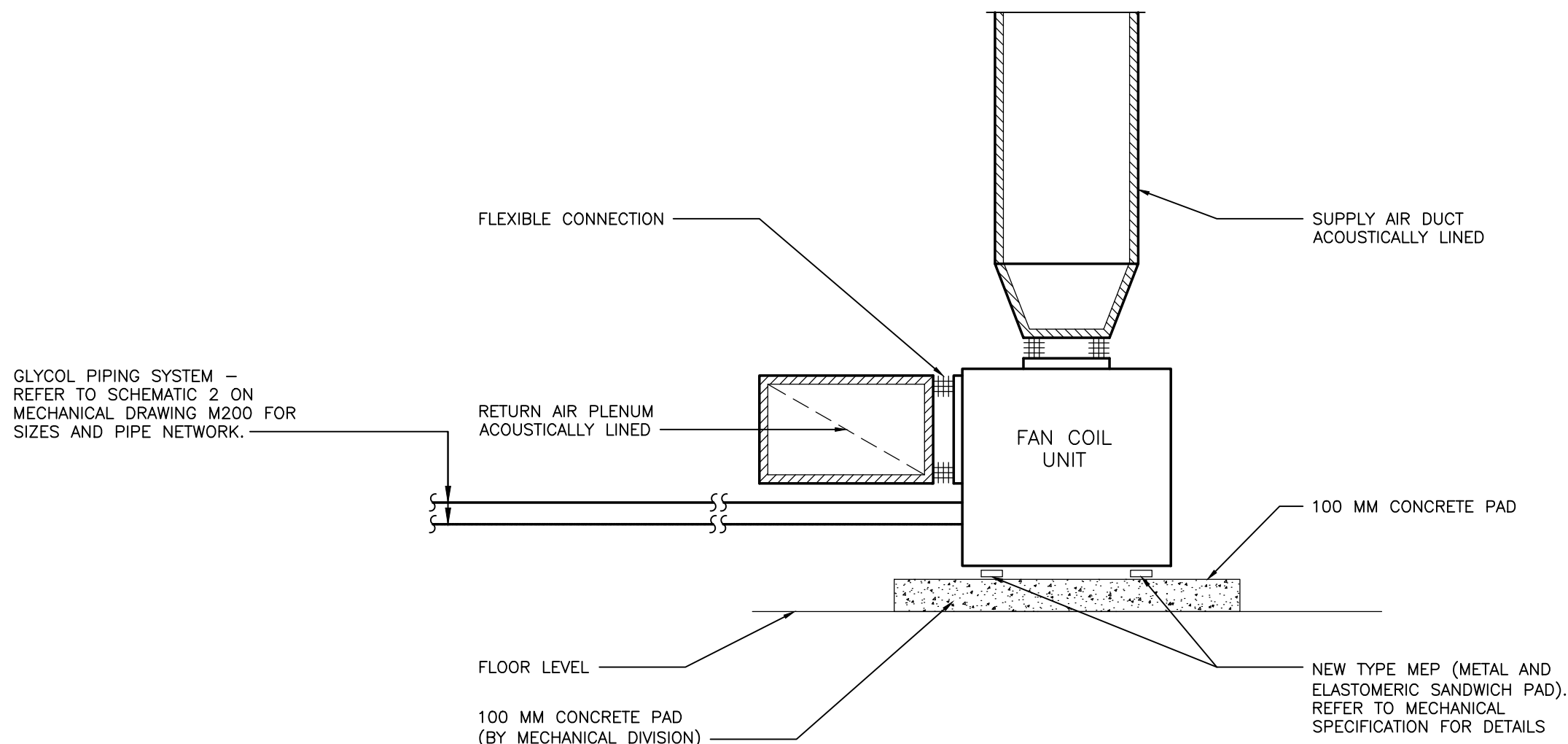
DRAWING_LOCATION



DRAWING NOTES:

1. THE CONTRACTOR SHALL SUPPLY AND INSTALL A RIGID GALVANIZED SPLASH PAD TO SEPARATE NEW BOILER AND EXISTING ELECTRICAL SWITCH BOARD IN ACCORDANCE WITH REQUIRED BY MANUFACTURER CLEARANCES (NOT SHOWN). REFER TO DETAIL 2 ON MECHANICAL DRAWING NO. M-401.

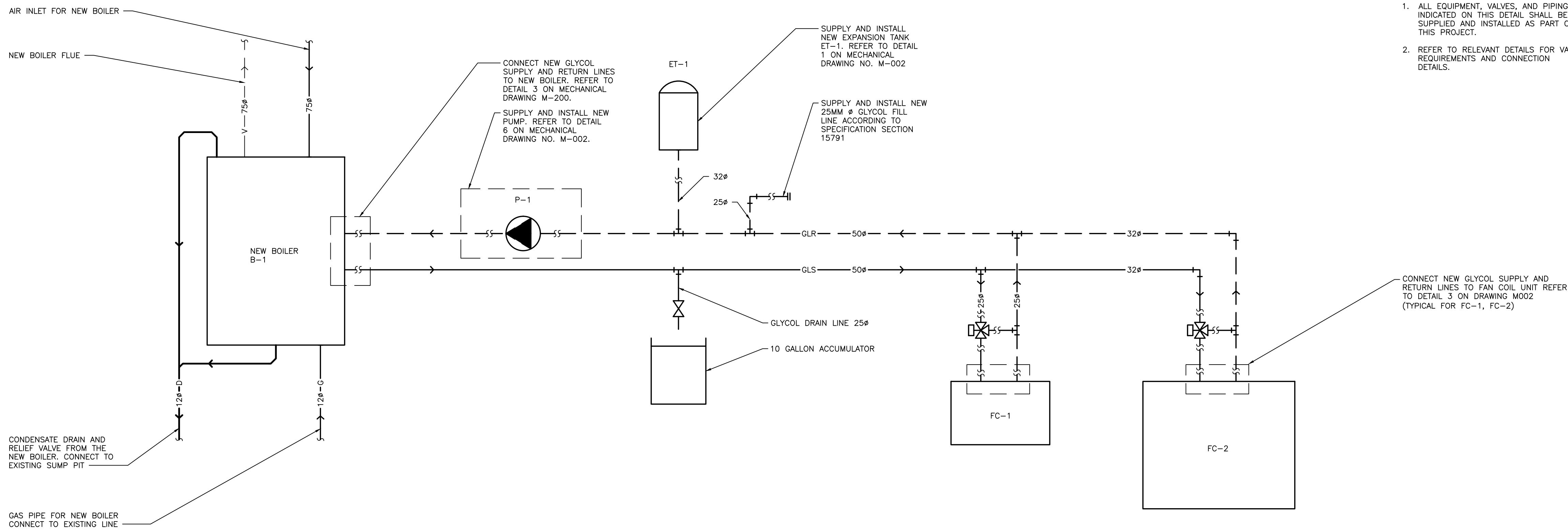
3 TYPICAL BOILER INSTALLATION
N.T.S.



NOTES:

1. PROVIDE UNIONS AT ALL PIPING CONNECTIONS TO UNIT.
2. FINAL FAN COIL UNIT LOCATIONS SHALL BE CO-ORDINATED ON SITE WITH THE APPROVAL OF MECHANICAL ENGINEER.

1 FLOOR STANDING FAN COIL UNIT DETAILS
N.T.S.



DRAWING NOTES:

1. ALL EQUIPMENT, VALVES, AND PIPING INDICATED ON THIS DETAIL SHALL BE SUPPLIED AND INSTALLED AS PART OF THIS PROJECT.
2. REFER TO RELEVANT DETAILS FOR VALVE REQUIREMENTS AND CONNECTION DETAILS.

2 GLYCOL SYSTEM SCHEMATIC
N.T.S.

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Title:

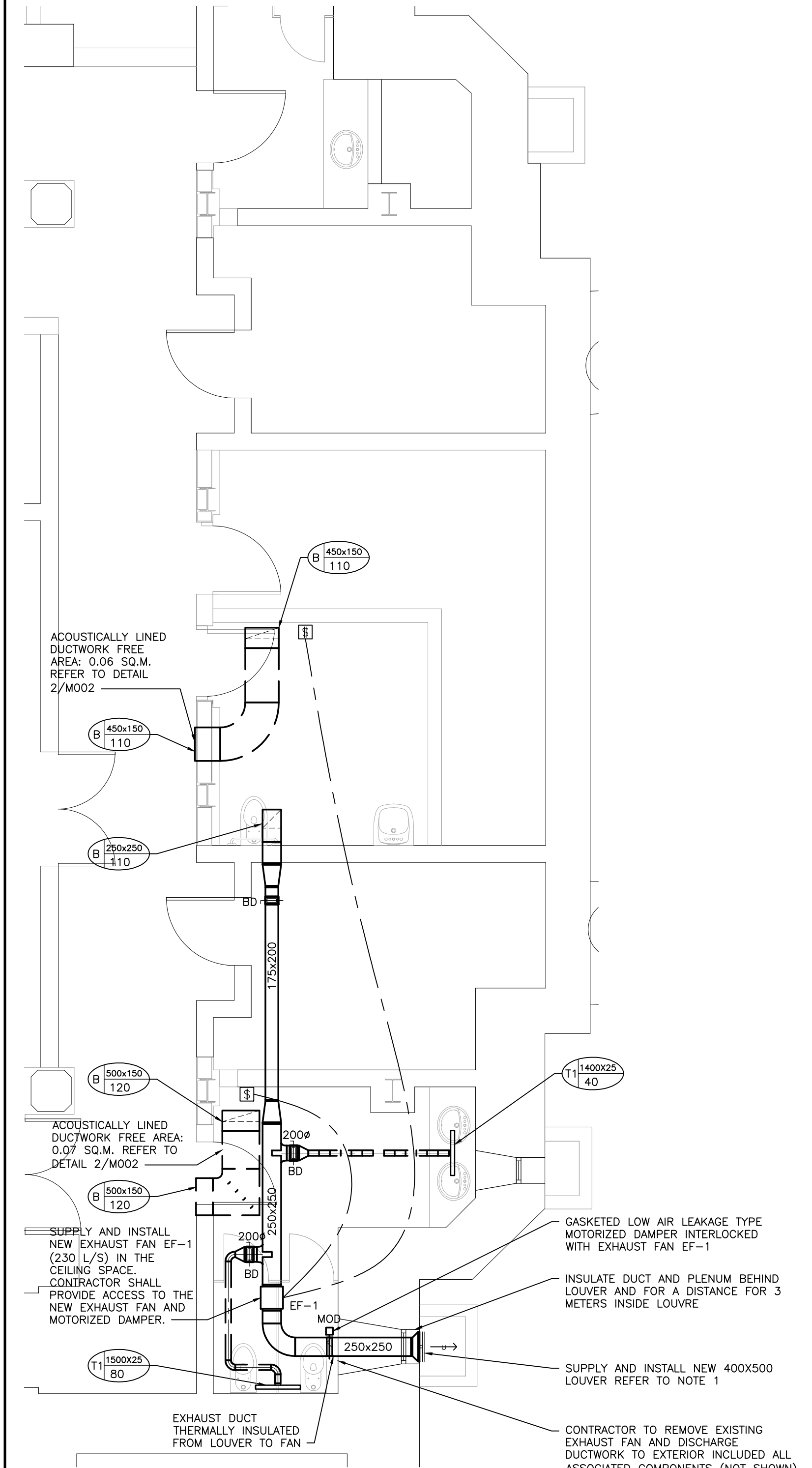
CHURCH ANNEXE
HEATING SYSTEM
SCHEMATIC DETAILS

Drawn : VG	Scale : N.T.S.	Date : 04/22/2015
Project Number : 12062	Drawing Number :	M200
Drawing Stage: CD		

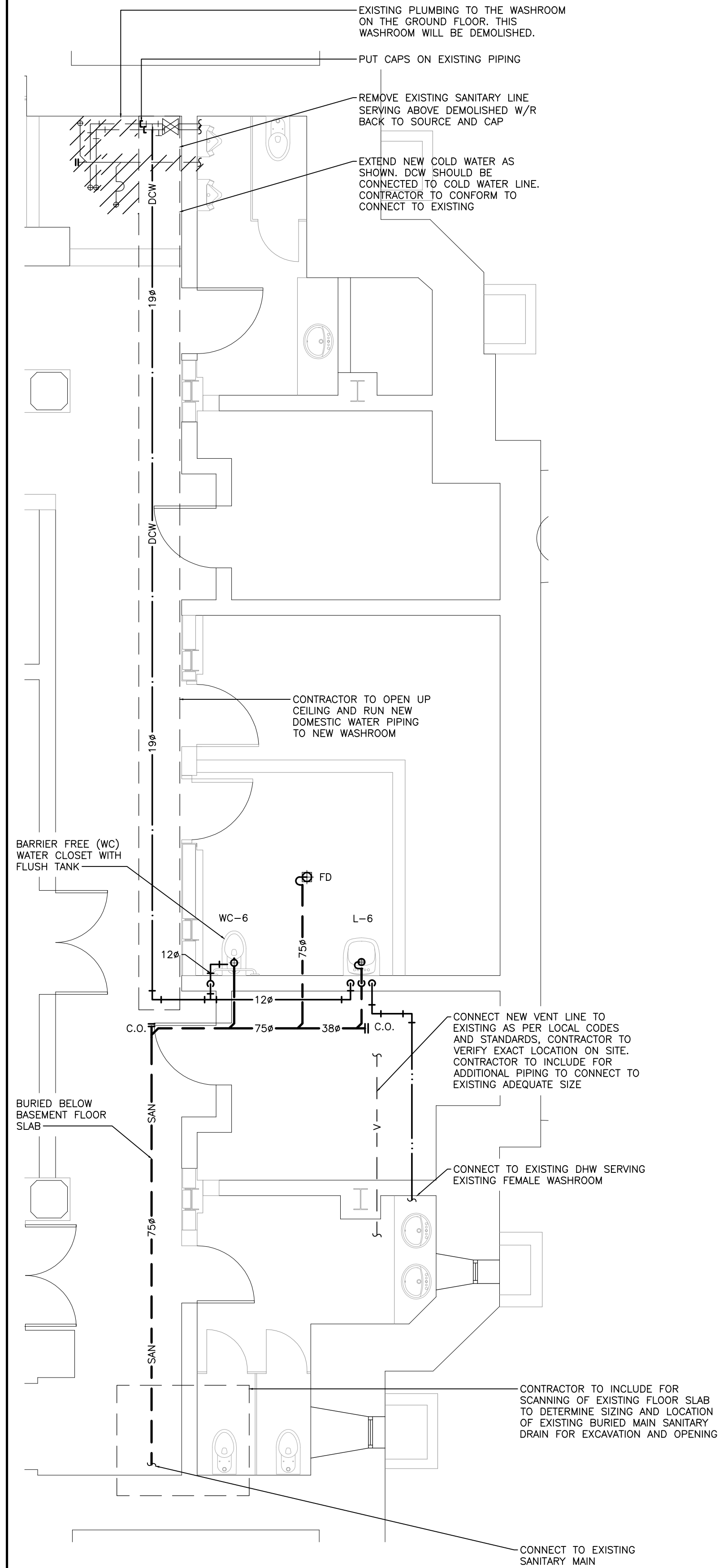
DRAWING_LOCATION

DRAWING NOTES:

- SUPPLY AND INSTALL STATIONARY LOUVER MODELS 2420/2425 AS MANUFACTURED BY VENTEX INC. OR EQUAL. LOUVERS MUST BE LICENSED TO BEAR IN THE AMCA SEAL. LOUVERS SHALL BE 4" (102 MM) DEEP. BLADES SHALL BE EXTRUDED ALUMINUM ALLOY AND FRAME SHALL BE EXTRUDED ALUMINUM ALLOY. LOUVERS SHALL BE 19 GAUGE GALVANIZED 1/2 "X1/2 " BIRDSCREEN. ALL MATERIALS SHALL BE FACTORY FINISHED AFTER ASSEMBLY WITH POLYESTER POWER COAT IN A COLOR SELECTED BY THE BUILDING OWNER. CONTRACTOR SHALL PROVIDE COLOR CHIP TO ARCHITECT IN PRIOR TO ORDERING. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR THE LOUVER.



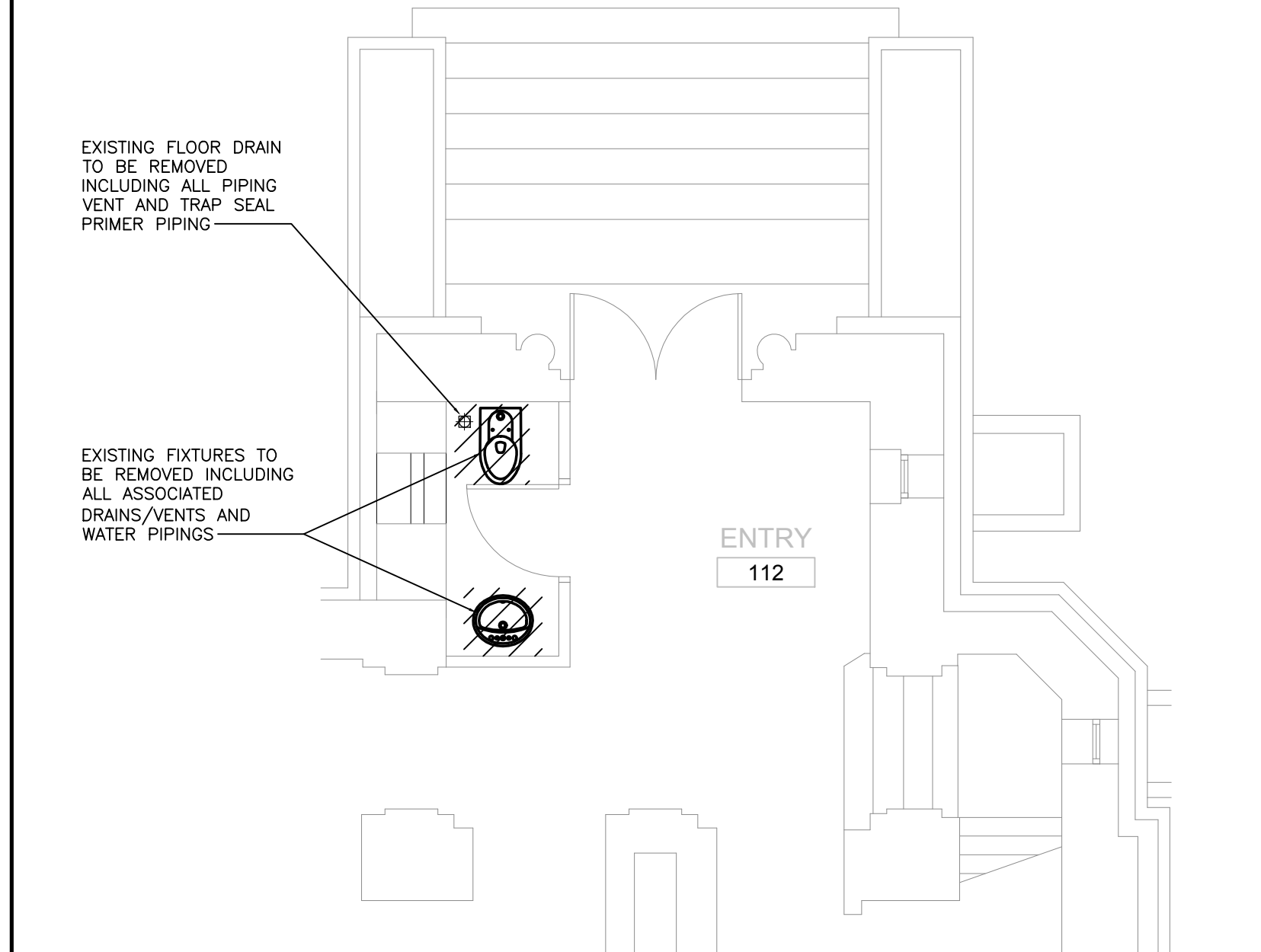
4 EXHAUST FAN LAYOUT
SCALE: 1:50



3 DRAINAGE AND PLUMBING LAYOUT
SCALE: 1:50

DRAWING NOTES:

- REMOVE EXISTING VENT PIPING FROM THE DEMOLISHED WASHROOM BACK TO SOURCE AND CAP (NOT SHOWN).
- REMOVE EXISTING EXHAUST FAN WITH RELATED DUCTWORK (NOT SHOWN). DISCONNECT EXHAUST FAN SWITCH BY DIV. 16.



1 GROUND FLOOR - WASHROOM DEMOLITION PLAN
SCALE: 1:50

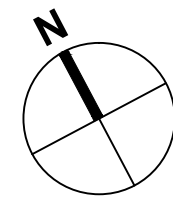
GENERAL NOTES:

- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
- FLOOR PLANS SHALL BE READ IN CONJUNCTION WITH SCHEMATICS. INFORMATION SHOWN ON FLOOR PLANS SHALL BE ASSUMED TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

2 NOTES
SCALE: 1:50

REV.	DATE	ISSUED
04	2015/12/04	ISSUED FOR TENDER
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01	2015/09/02	ISSUED FOR REVIEW

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TORONTO, ONTARIO

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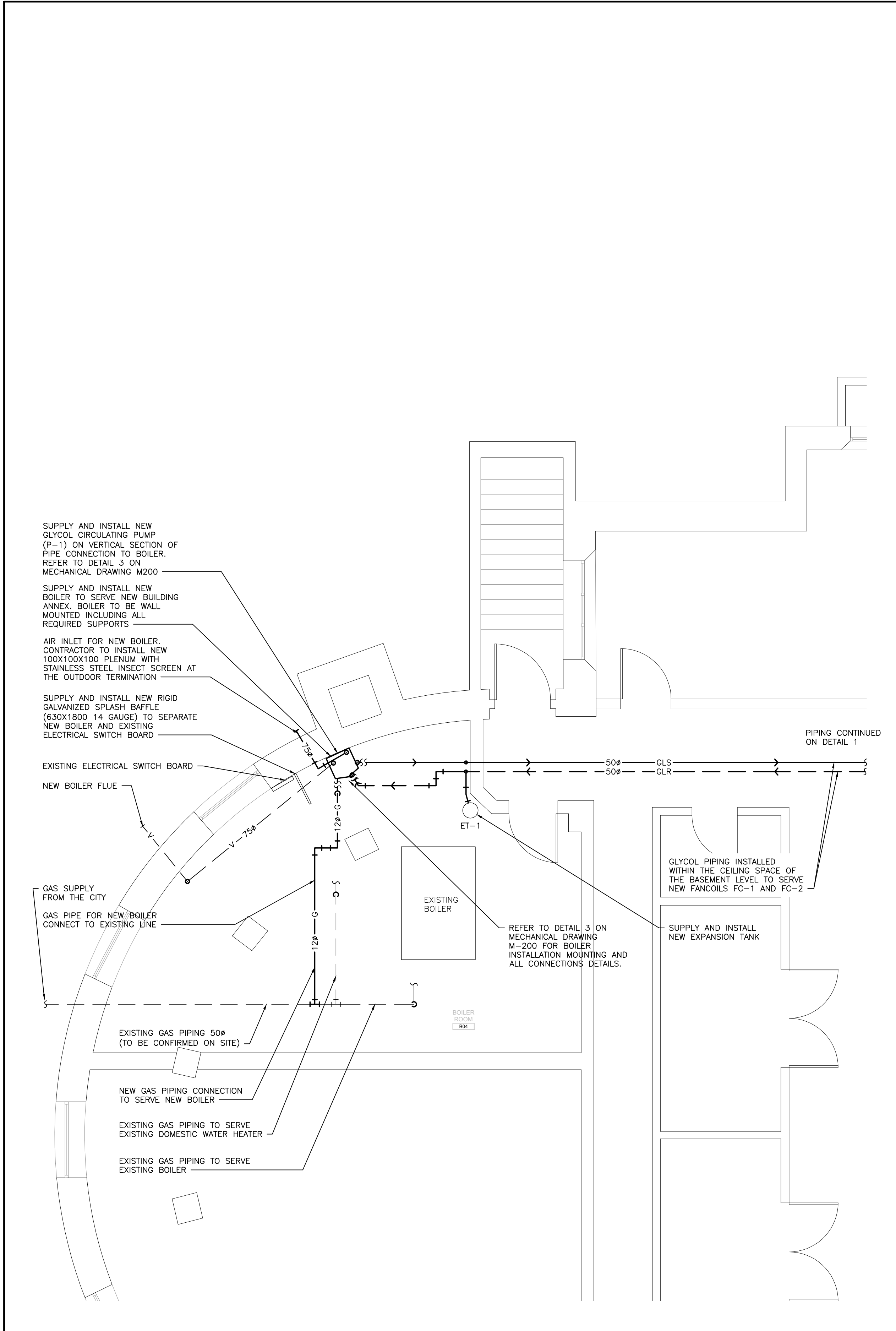


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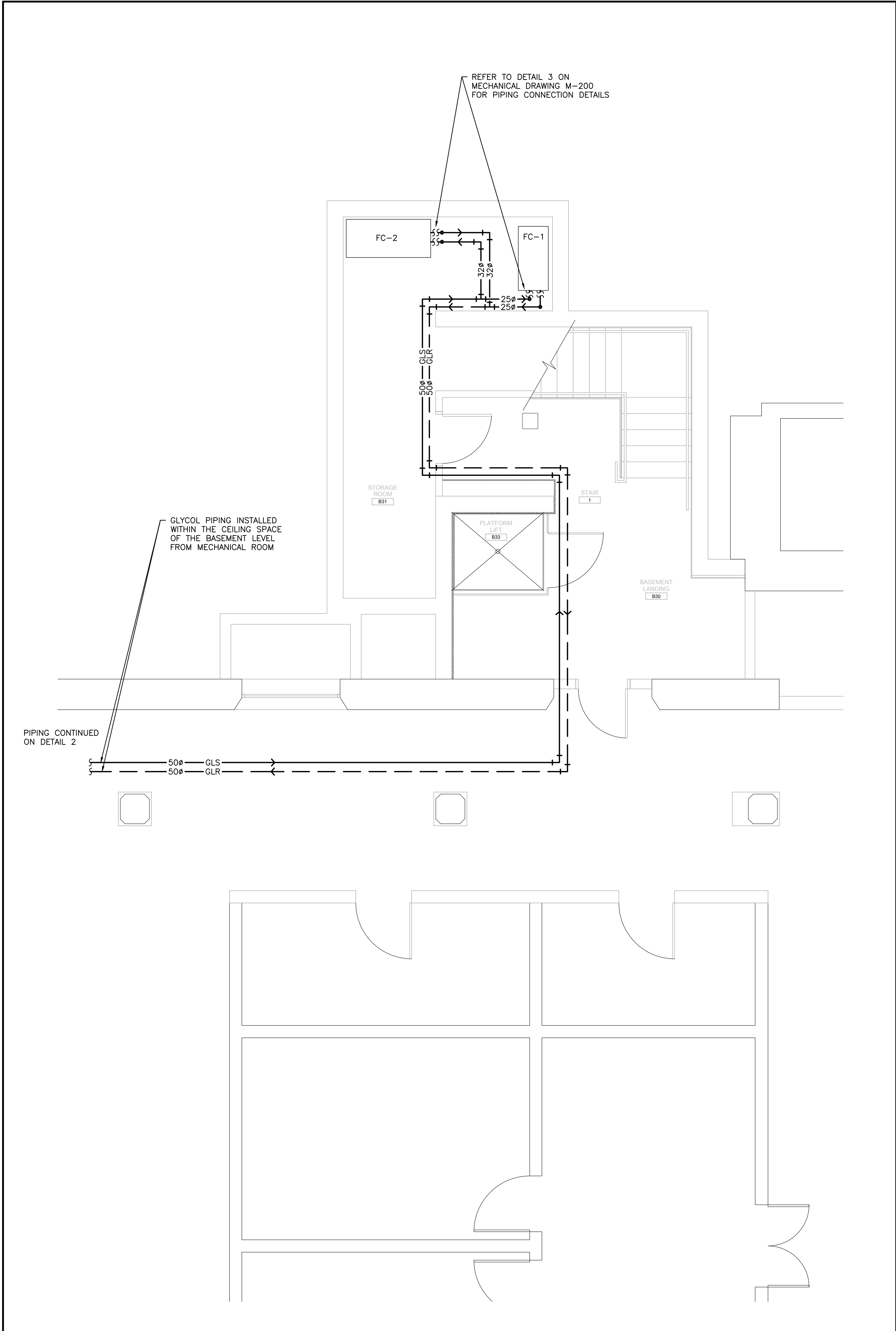
NEW WASHROOM LAYOUT

Drawn : VG	Scale : 1:50	Date : 04/22/2015
Project Number : 12062	Drawing Number : M300	
Drawing Stage : CD		

DRAWING_LOCATION



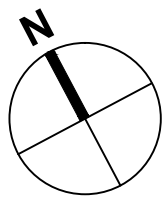
2
M401 BASEMENT PLAN - WEST SIDE
SCALE: 1:50



1
M401 BASEMENT PLAN - EAST SIDE
SCALE: 1:50

REV.	DATE	ISSUED
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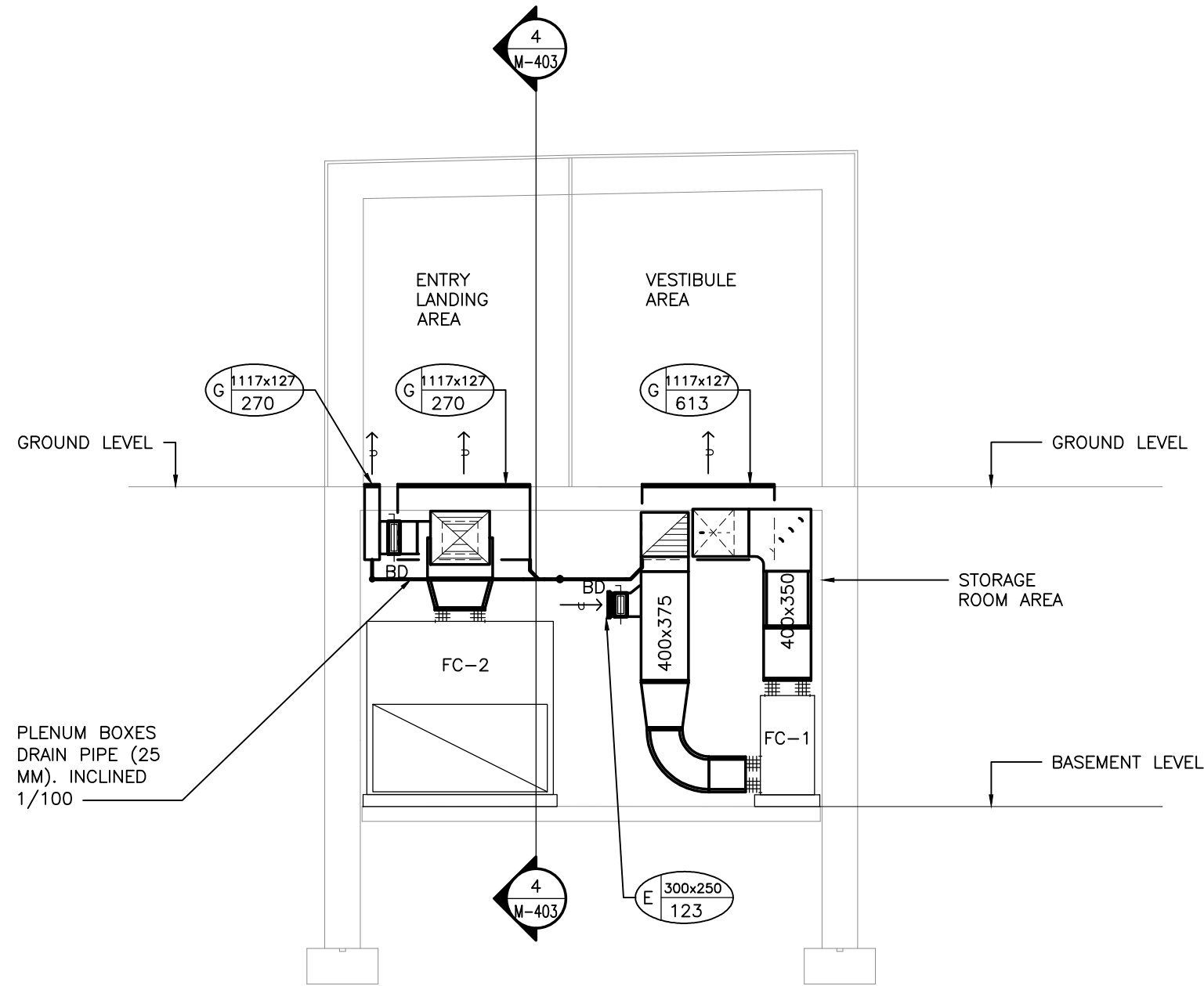
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S+A PROJECT NUMBER: 14214.002.M.001

Title:
HEATING
WATER/GLYCOL FOR
FAN COIL UNITS

Drawn : VG	Scale : 1:50	Date : 04/22/2015
Project Number : 12062	Drawing Number : M401	
Drawing Stage : CD		

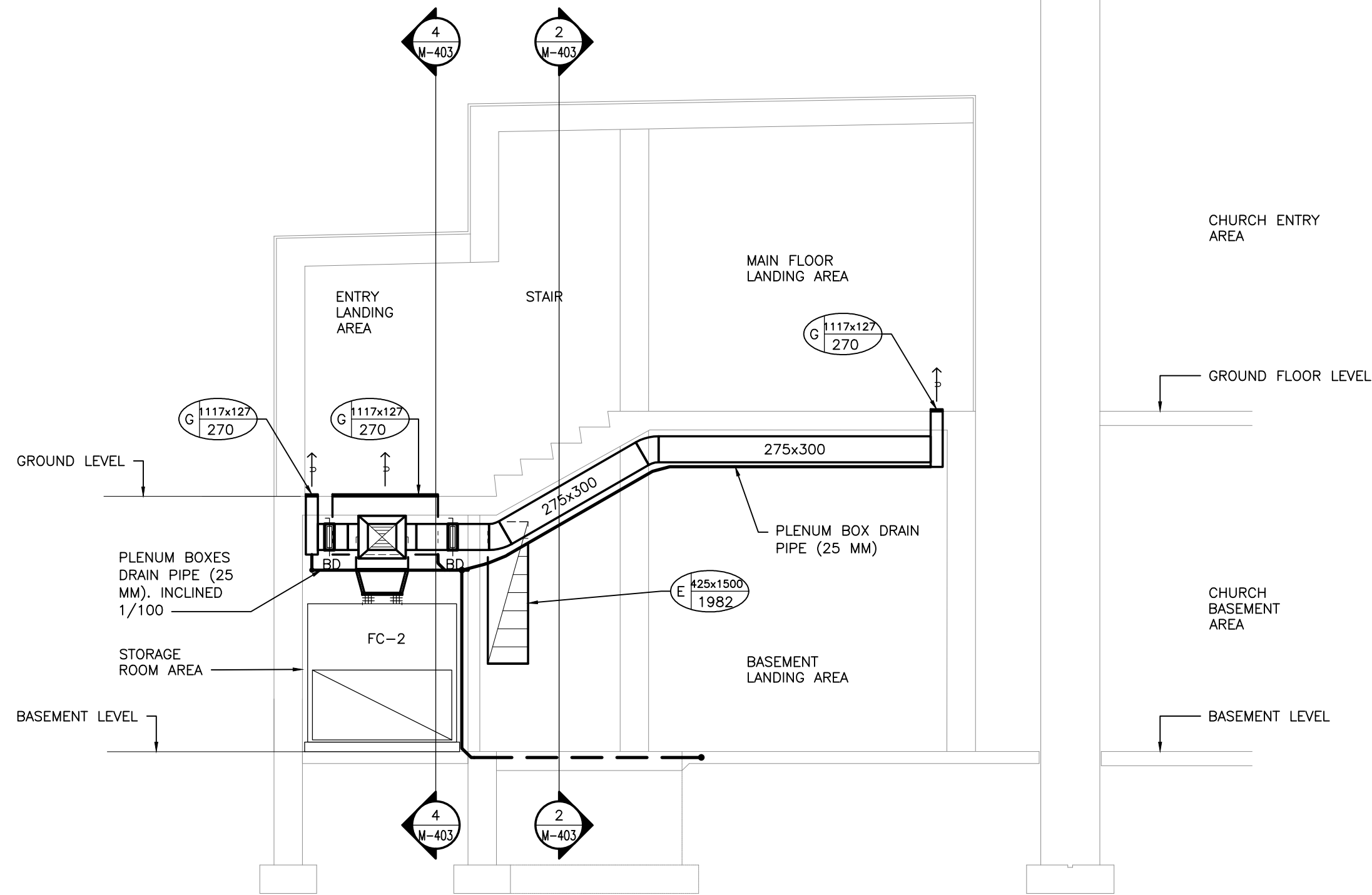
DRAWING_LOCATION

NOTE:
1. FC-1 AND FC-2 TO BE MOUNTED ON 100MM HIGH CONCRETE HOUSEKEEPING PADS C/W ISOLATION PADS.



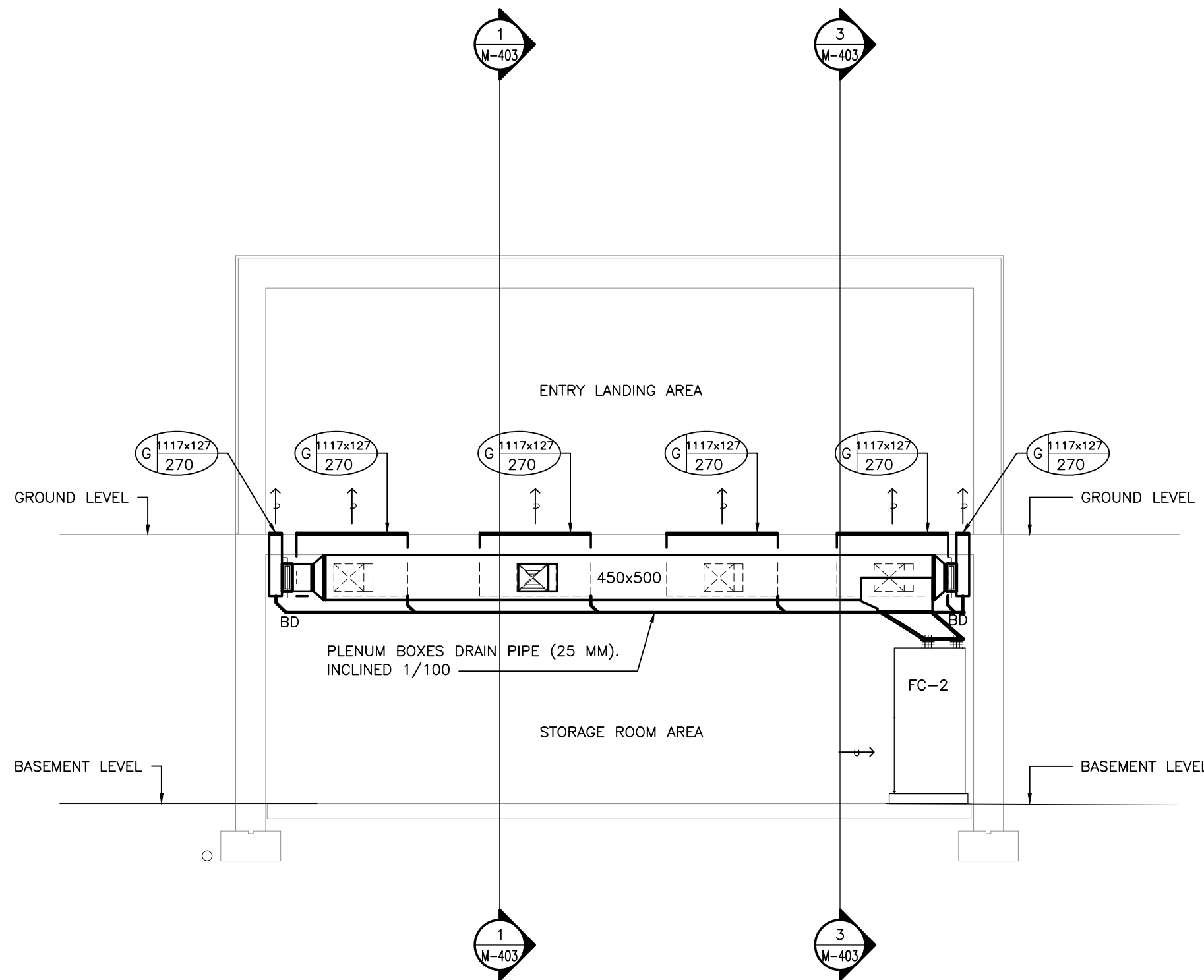
3 SECTION DETAILS
SCALE: 1:50

NOTE:
1. FC-1 AND FC-2 TO BE MOUNTED ON 100MM HIGH CONCRETE HOUSEKEEPING PADS C/W ISOLATION PADS.



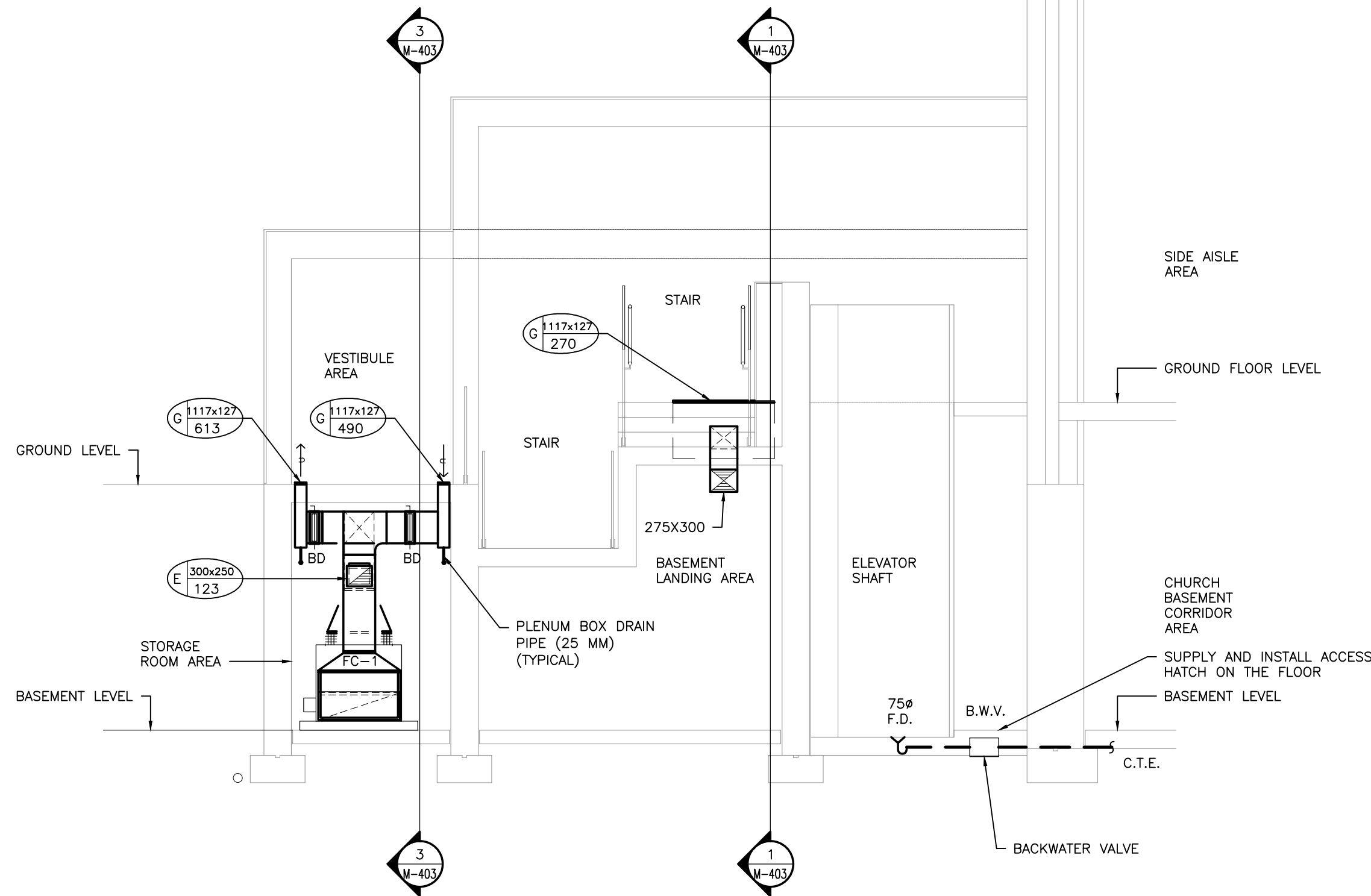
1 SECTION DETAILS
SCALE: 1:50

NOTE:
1. FC-1 AND FC-2 TO BE MOUNTED ON 100MM HIGH CONCRETE HOUSEKEEPING PADS C/W ISOLATION PADS.



4 SECTION DETAILS
SCALE: 1:50

NOTE:
1. FC-1 AND FC-2 TO BE MOUNTED ON 100MM HIGH CONCRETE HOUSEKEEPING PADS C/W ISOLATION PADS.



2 SECTION DETAILS
SCALE: 1:50

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MECHANICAL SECTION DETAILS

Drawn : VG	Scale : 1:50	Date : 04/22/2015
Project Number : 12062	Drawing Number :	M403
Drawing Stage : CD		

DRAWING_LOCATION