

NECK SIZE	FACE DIMENSION (FOR DRYWALL CEILING)		AIRFLOW RANGE		THROW @		MAX. NC	
	IN.	mm	CFM	L/S	FEET	m		
6"ø	152ø	12"x12"	305x305	0 - 90	0 - 42	2-3-6	0.6-0.9-1.8	20
8"ø	203ø	12"x12"	305x305	91 - 160	43 - 76	3-4-8	0.9-1.2-2.4	20
10"ø	254ø	20"x20"	508x508	161 - 250	77 - 118	2-3-7	0.6-0.7-2.1	20
12"ø	305ø	24"x24"	610x610	251 - 360	119 - 170	3-5-9	0.9-1.5-2.7	20
14"ø	356ø	24"x24"	610x610	361 - 450	171 - 212	3-5-10	0.9-1.5-3.0	20

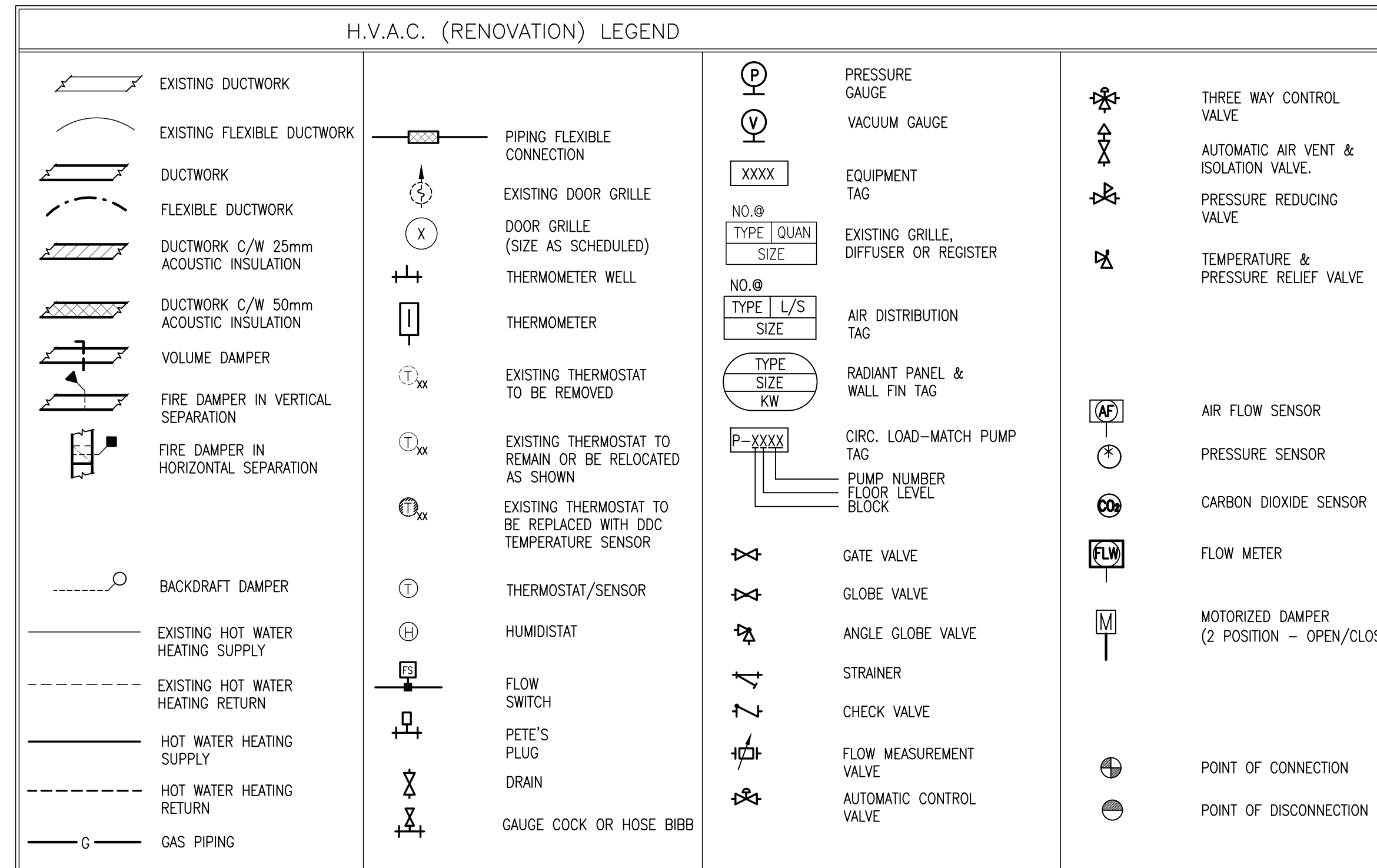
- NOTES:
- SIZE PER SCHEDULE UNLESS OTHERWISE NOTED ON DRAWING.
  - FOR T-BAR CEILING INSTALLATIONS, FACE DIMENSION SHALL BE 610x610 [24"x24"].
  - DUCTWORK WITHIN 610mm [2'-0"] FROM DIFFUSER NECK, INCLUDING THE ENTIRE LENGTH OF FLEXIBLE DUCT, SHALL BE THE SAME SIZE AS DIFFUSER NECK.
  - PROVIDE SECTORIZING BAFFLE WHERE INDICATED ON DRAWINGS.
  - N.C. VALUES ARE BASED ON ROOM ABSORPTION OF 10 dB re 10<sup>-12</sup> WATTS AND ONE DIFFUSER.
  - DIFFUSERS SHALL BE ANTI LIGATURE AND VANDAL RESISTANT.

NECK SIZE	AIRFLOW RANGE		MAX. NC	
	IN.	mm		
6"x6"	152x152	0 - 100	0 - 47	20
8"x8"	203x203	101 - 200	48 - 94	20
10"x10"	254x254	201 - 330	95 - 156	20
12"x12"	305x305	331 - 470	157 - 222	20
14"x14"	356x356	471 - 620	223 - 293	20
16"x16"	406x406	621 - 800	294 - 338	20

- NOTES:
- APPLICABLE FOR RETURN GRILLES (RG), RETURN REGISTERS (RR), EXHAUST GRILLES (EG) AND EXHAUST REGISTERS (ER).
  - FOR T-BAR CEILING AND DRYWALL CEILING INSTALLATIONS.
  - SIZE PER SCHEDULE UNLESS OTHERWISE NOTED ON DRAWING.
  - N.C. VALUES ARE BASED ON ROOM ABSORPTION OF 10 dB re 10<sup>-12</sup> WATTS, TESTED WITHOUT DAMPER.
  - GRILLES AND REGISTERS SHALL BE ANTI LIGATURE AND VANDAL RESISTANT.

NECK SIZE	AIRFLOW RANGE	
	IN. (mm)	CFM L/S
6"ø	152ø	0 - 110 0 - 52
8"ø	203ø	111 - 220 53 - 104
10"ø	254ø	221 - 330 105 - 156
12"ø	305ø	331 - 450 157 - 212

- NOTES:
- REFER TO SCHEDULE WHERE SIZES ARE NOT NOTED ON DRAWING. APPLICABLE FOR SUPPLY BRANCH DUCT 610mm [2'-0"] UPSTREAM OF DIFFUSER.
  - DUCTWORK WITHIN 610mm [2'-0"] FROM DIFFUSER NECK, INCLUDING THE ENTIRE LENGTH OF FLEXIBLE DUCT, SHALL BE THE SAME SIZE AS DIFFUSER NECK.
  - REFER TO "FLEXIBLE DUCT/DIFFUSER CONNECTION" DETAILS.



J.M. Bean & Co. Ltd.  
(Member of Integral Group)

Project: Mountain Institution Health Care Expansion  
 Project #: 1538 Phase: CD  
 Calculated by: RV Date: 2017.01.19  
 Design by: GP Date: 2017.01.19

AHU-1 % OA = 33%

AIR BALANCE TABLE

ROOM #	ROOM NAME	AREA			VOLUME			PROPOSED DESIGN					CSA Z317.2-15 REQUIREMENT			
		square metres	metres	cubic metres	SUPPLY L/s	RETURN L/s	EXH L/s	Xfer-IN L/s	Xfer-OUT	OA ACH	TOTAL ACH	BALANCE	MIN OA ACH	TOTAL ACH	BALANCE	EXHAUST
G189	Medication Pick-Up	6.8	2.7	18	61		73	12	-	4.0	12.1	Neg	4	12	Neg	Y
G170	Vest. & Inmate Waiting	14.0	2.7	37	127		142	14	-	4.0	12.1	Neg	4	12	Neg	Y
G190	Security Office	24.2	2.7	64	142		-	142	2.6	7.8	Eq	1	3	Eq	-	
G178	Exam Room 1	13.0	2.7	35	61	61	-	-	2.1	6.3	Eq	2	6	Eq	-	
G172 & 172A	Dental Operator & Reprocess	26.1	2.7	70	177	160	-	17	3.0	9.0	Pos	3	9	Pos	-	
G181	Exam Room 2	14.0	2.7	37	66	66	-	-	2.1	6.3	Eq	2	6	Eq	-	
G183	Specialty Treatment	20.5	2.7	55	94	94	-	-	2.0	6.1	Eq	2	6	Eq	-	
G179	Treatment Room	19.8	2.7	53	94	94	-	-	2.1	6.4	Eq	2	6	Eq	-	
G180	Treatment Room	19.5	2.7	52	94	94	-	-	2.1	6.5	Eq	2	6	Eq	-	
G171	Corridor	61.0	2.7	163	201	106	-	94	1.4	4.4	Eq	1	3	Eq	-	
G185	Clean Supply	20.4	2.7	55	94	83	-	12	2.0	6.2	Pos	2	6	Pos	-	
G187D	Admin Office	34.7	2.7	93	142	142	-	-	1.8	5.4	Eq	1	3	Eq	-	
G187A	File Storage	12.8	2.7	34	47	47	-	-	1.6	4.9	-	-	4	-	-	
G187	Nursing Station	35.6	2.7	95	165	165	-	-	2.0	6.2	Eq	2	6	Eq	-	
G186	Staff WC	5.6	2.7	15			47	47	-	0.0	11.3	Neg	-	9	Neg	Y
G177	HWC	6.5	2.4	16			47	47	-	0.0	10.7	Neg	-	9	Neg	Y
G182	Exam Room 3	13.9	2.7	37	66	66	-	-	2.1	6.3	Eq	2	6	Eq	-	
G187B	Dispensary	21.4	2.4	51	170		194	12	-	0.0	12.3	Neg	4	12	Neg	Y
G152	Soiled Supply	6.1	2.7	16			47	47	-	0.00	10.26	Neg	-	10	Neg	Y
G152	Bio Hazard	6.1	2.7	16			47	47	-	0.00	10.26	Neg	-	10	Neg	Y
<b>GRAND TOTAL</b>																

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Revision/Revisión	Description/Description	Date/Date

Client/Client  
**CORRECTIONAL SERVICE OF CANADA**

Project title/Titre du projet  
**AGASSIZ, BRITISH COLUMBIA  
4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE  
HEALTH CARE EXPANSION**

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Designed by/Concept par  
**GP**

Drawn by/Dessiné par  
**RV**

PSPC Project Manager/Administrateur de Projets SPAC  
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Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architectural et de génie, SPAC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**LEGEND  
AIR BALANCE TABLE  
MECHANICAL**

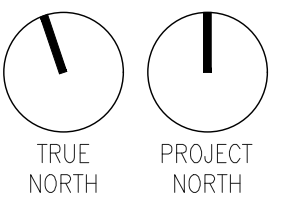
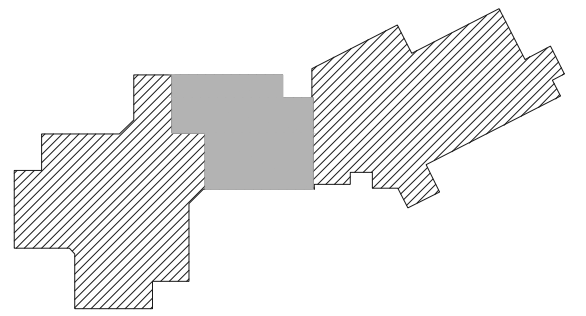
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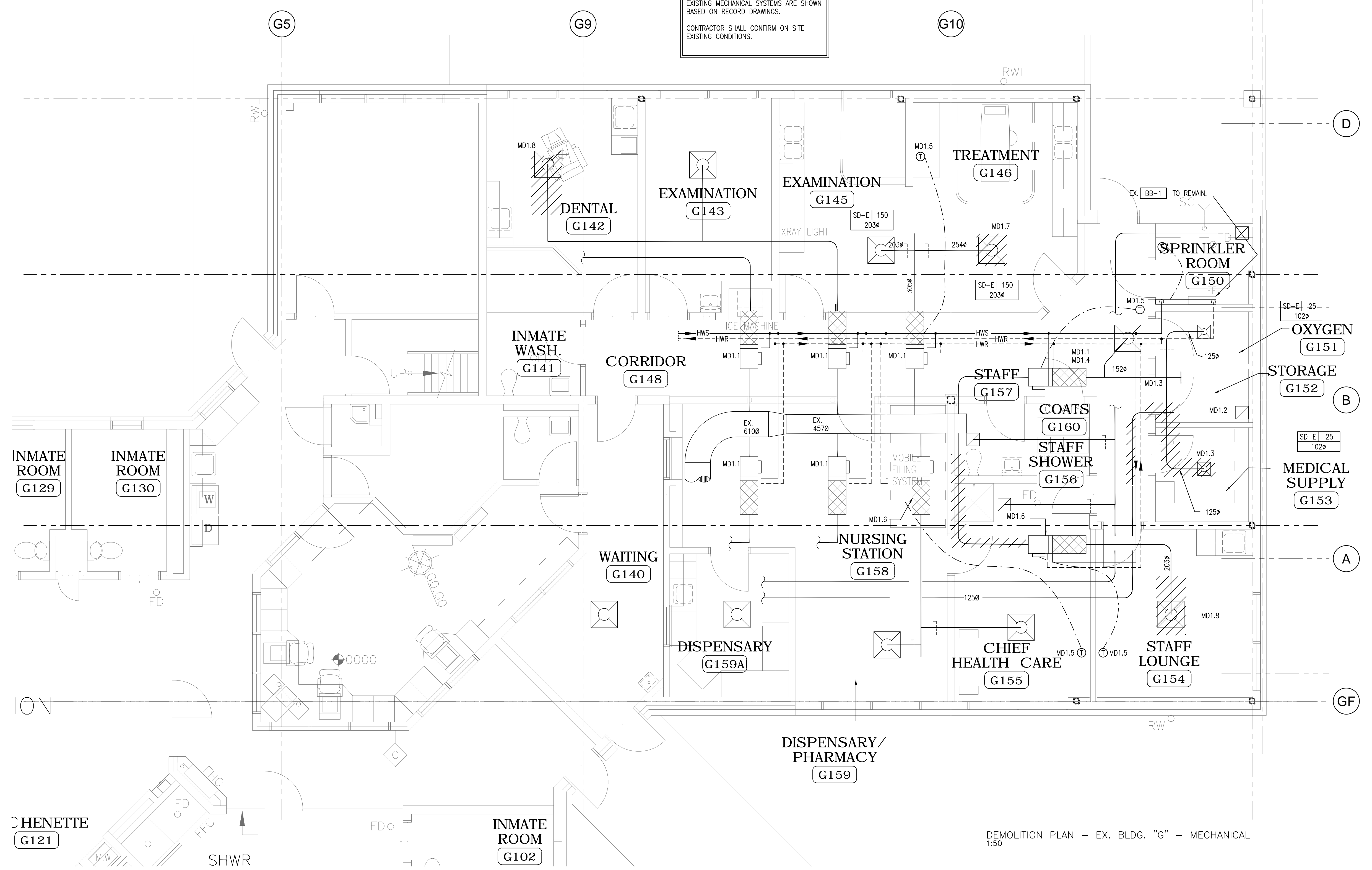




**DRAWING M-1 DEMOLITION NOTES:**

- MD1.1 EXISTING AIR VALVE TO REMAIN.
- MD1.2 REMOVE EXISTING CEILING GRILLE AND SECTION OF EXISTING DUCT.
- MD1.3 REMOVE EXISTING DUCTING AS SHOWN BY HATCHING. CAP OFF EXISTING DUCTING.
- MD1.4 RE-BALANCE AIR VALVE FOR NEW AIR QUANTITIES AS INDICATED.
- MD1.5 REMOVE AND REINSTALL EXISTING THERMOSTAT TO ACCOMMODATE ARCHITECTURAL WORK IN THIS AREA. EXTEND SERVICES TO ACCOMMODATE RELOCATION.
- MD1.6 REMOVE AND REINSTALL EXISTING AIR VALVE IN NURSING STATION G158. SEE PROPOSED LOCATION IN NEW CONSTRUCTION PLAN. DISCONNECT AIR VALVE FROM EX. 12 HWS/R PIPE. CAP OFF EX. 12 HWS/R PIPE. MODIFY AND EXTEND DUCTWORK.
- MD1.7 REMOVE EX. DIFFUSER.
- MD1.8 RELOCATE EXISTING SUPPLY DIFFUSER TO ACCOMMODATE NEW ROOM LAYOUT. MODIFY EXISTING DUCTWORK.

EXISTING MECHANICAL SYSTEMS ARE SHOWN  
BASED ON RECORD DRAWINGS.  
CONTRACTOR SHALL CONFIRM ON SITE  
EXISTING CONDITIONS.



DEMOLITION PLAN - EX. BLDG. "G" - MECHANICAL  
1:50

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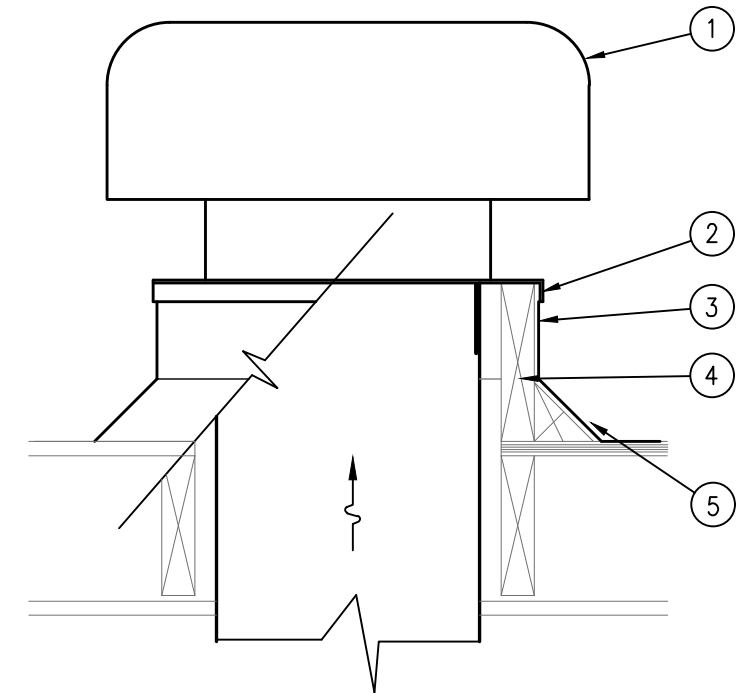
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**RV**  
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**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**DEMOLITION  
EXISTING BUILDING  
MAIN FLOOR PLAN  
MECHANICAL**

Project No./No. du projet <b>R.077724.001</b>	Sheet/ Feuille <b>M-2</b> OF <b>5</b>	Revision no./ La Révision no.
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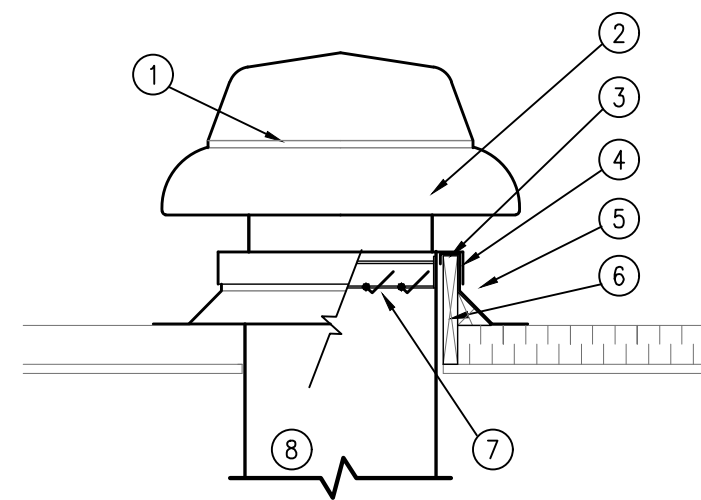
**DRAWING M-3 NOTES:**

- M3.1 CONNECT NEW 1 WAY DIFFUSER TO EXISTING DUCT AT POINT OF CONNECTION SHOWN.
- M3.2 PROVIDE NEW E/A DUCT AND CONNECT TO EXISTING EXHAUST DUCT AS INDICATED. CONFIRM EXACT LOCATION ON SITE.
- M3.3 CONNECT NEW 20 HWS/R PIPE TO EXISTING 12 HWS/R CONNECT TO AIR VALVE IN NEW LOCATION. REUSE EXISTING CONTROLS.
- M3.4 NEW PROPOSED LOCATION FOR EX. AIR VALVE. CONFIRM ON SITE TO ENSURE SERVICE ACCESS CLEARANCE IS PROVIDED. EXTEND EXISTING DUCT AS INDICATED.
- M3.5 NEW DIFFUSER TO BE COORDINATED WITH ELECTRICAL AND ARCHITECTURAL. EXTEND EXISTING DUCTWORK.



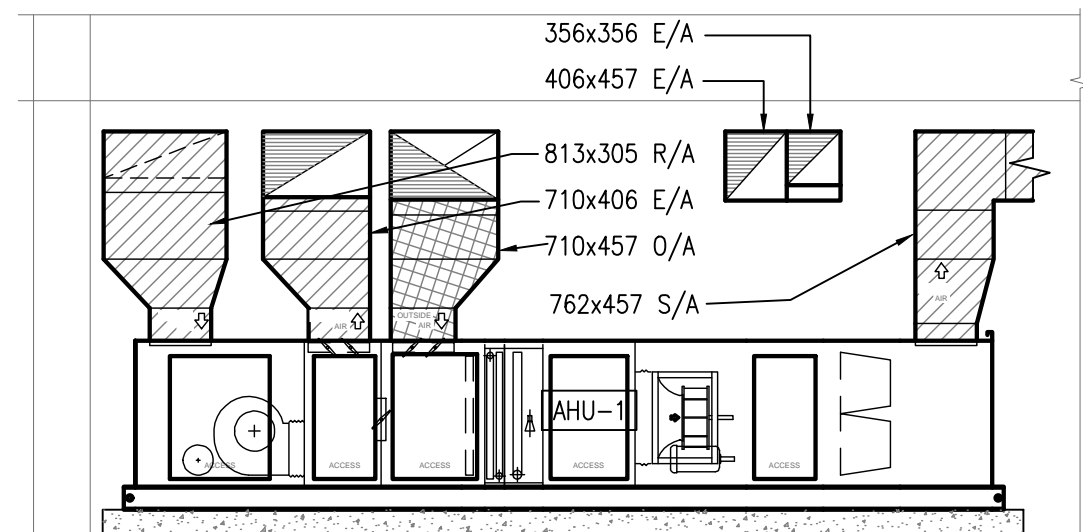
GRAVITY RELIEF AIR HOOD  
N.T.S.

- 1. RELIEF VENT AS SPECIFIED ON PLAN.
- 2. CAULK ALL AROUND.
- 3. GALV. LAG SCREW TO BASE.
- 4. 305mm FAN MANUF. CURB.
- 5. FLASHING & COUNTER - FLASHING.

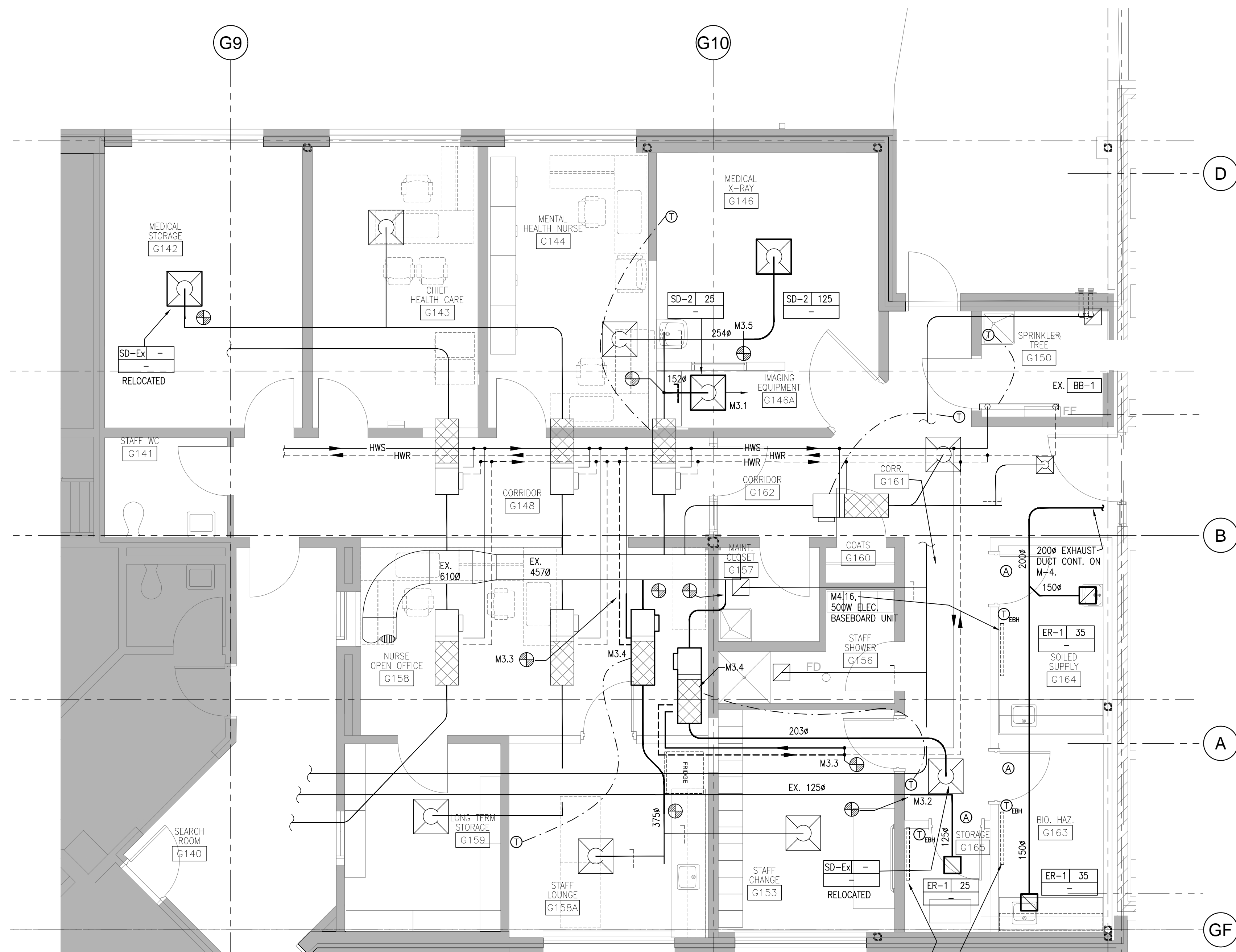


ROOF EXHAUST FAN  
N.T.S.

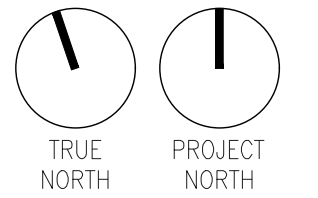
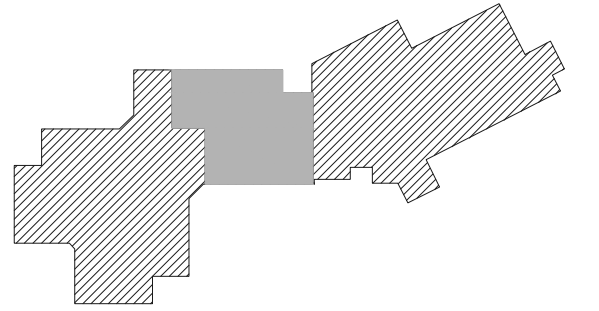
- 1. DISCONNECT SWITCH UNDER HOOD.
- 2. BIRD GUARD
- 3. CAULK ALL AROUND
- 4. GALVANIZED LAG SCREW TO BASE
- 5. FLASHING & COUNTER FLASHING
- 6. FAN MANUFACTURER'S CURB MINIMUM 200mm ABOVE FINISHED ROOF ELEVATION. COORDINATE CURB HEIGHT REQUIREMENT WITH ROOFING CONTRACTOR & ARCHITECTURAL DRAWINGS.
- 7. BACKDRAFT DAMPER
- 8. EXHAUST DUCT



SECTION A  
1:50



FLOOR PLAN - EX. BLDG. "G" - MECHANICAL  
1:50



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4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE  
HEALTH CARE EXPANSION**

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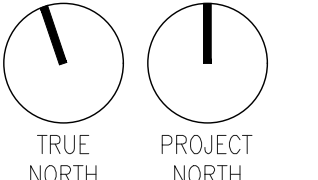
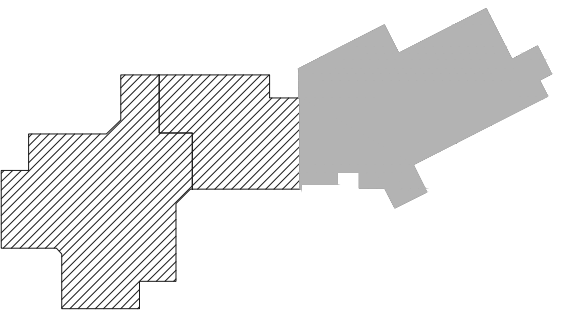
**RENOVATION  
EXISTING BUILDING  
MAIN FLOOR PLAN  
MECHANICAL**

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**R.077724.001**

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**M-3**

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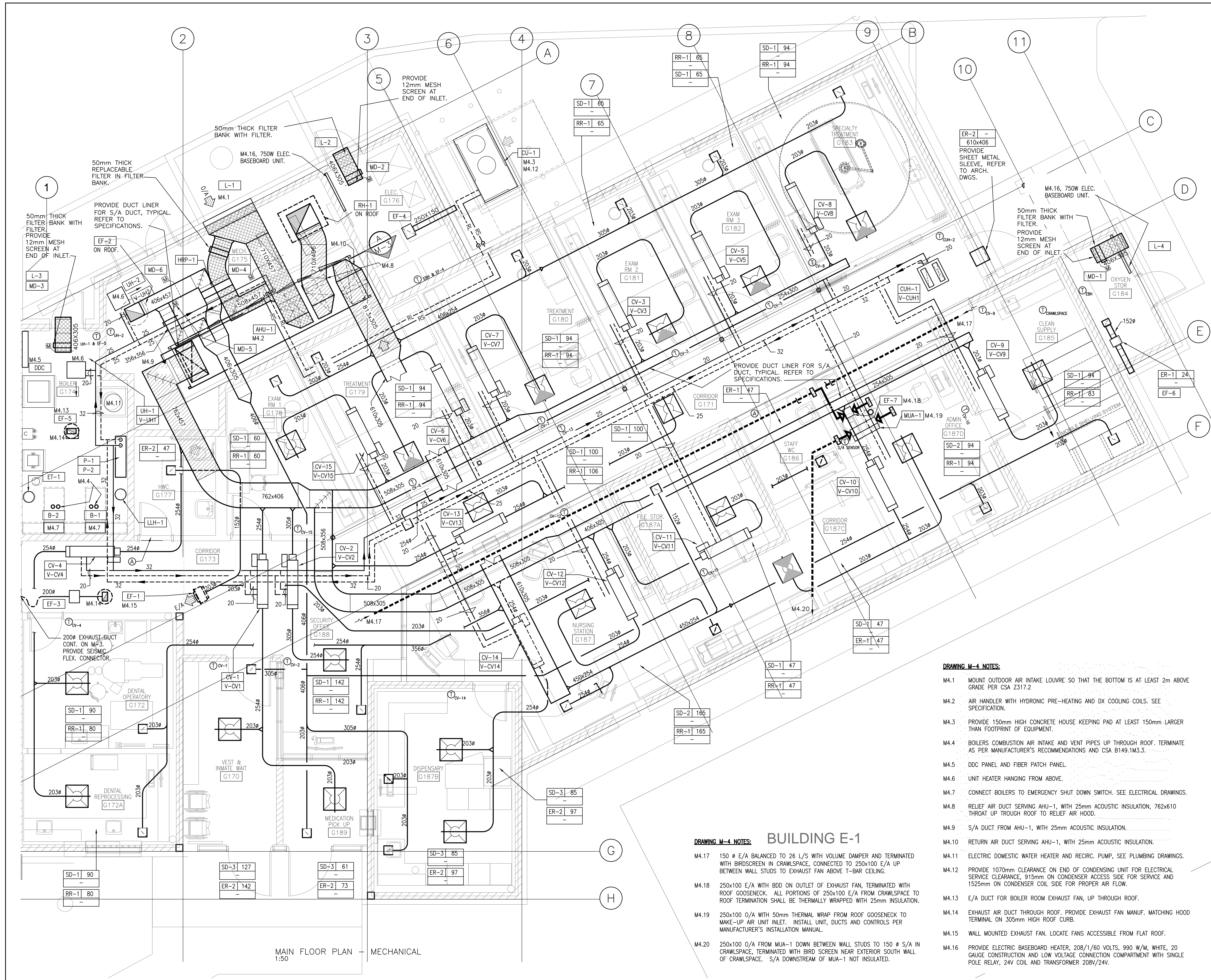
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Drawing title/Titre du dessin  
**ADDITION  
MAIN FLOOR PLAN  
MECHANICAL**

Project No./No. du projet <b>R.077724.001</b>	Sheet/ Feuille <b>M-4</b> OF <b>5</b>	Revision no./ La Révision no.
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MAIN FLOOR PLAN - MECHANICAL  
1:50

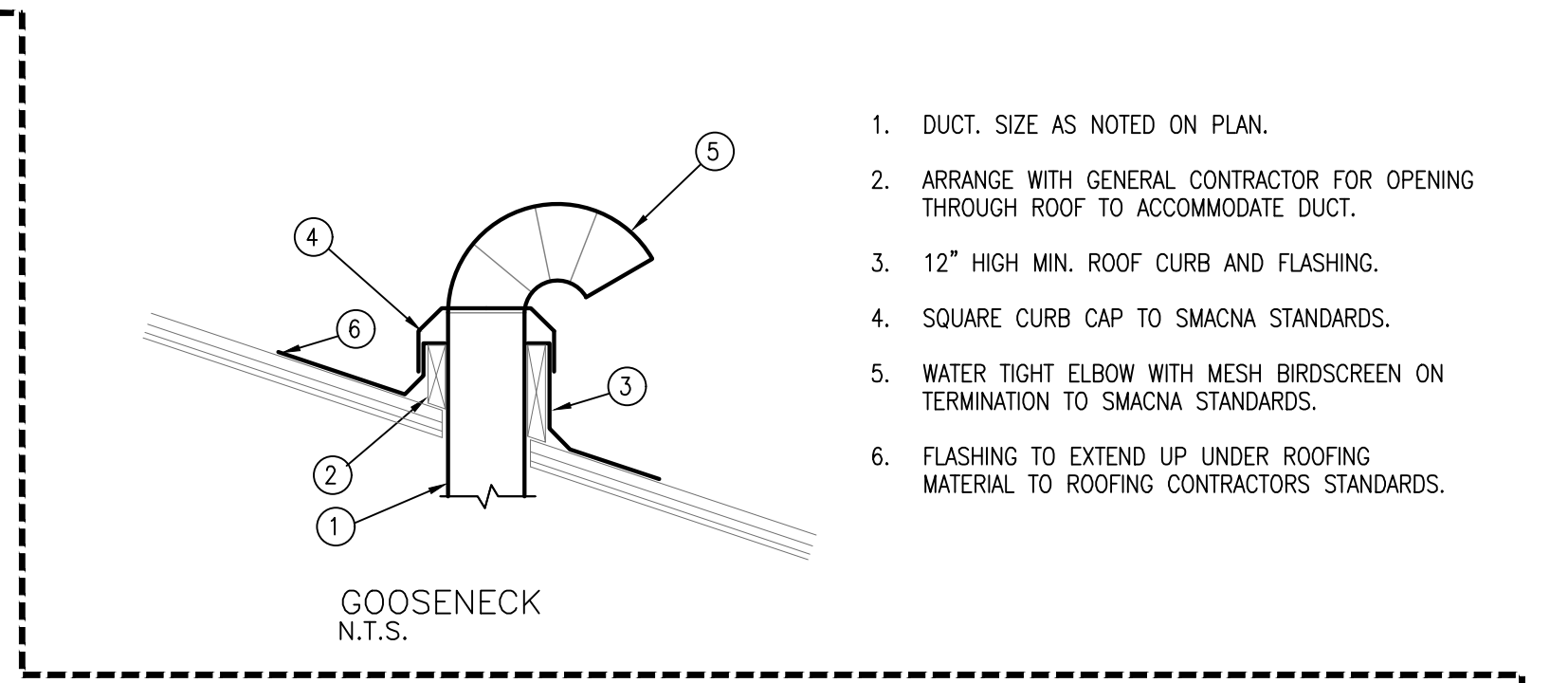
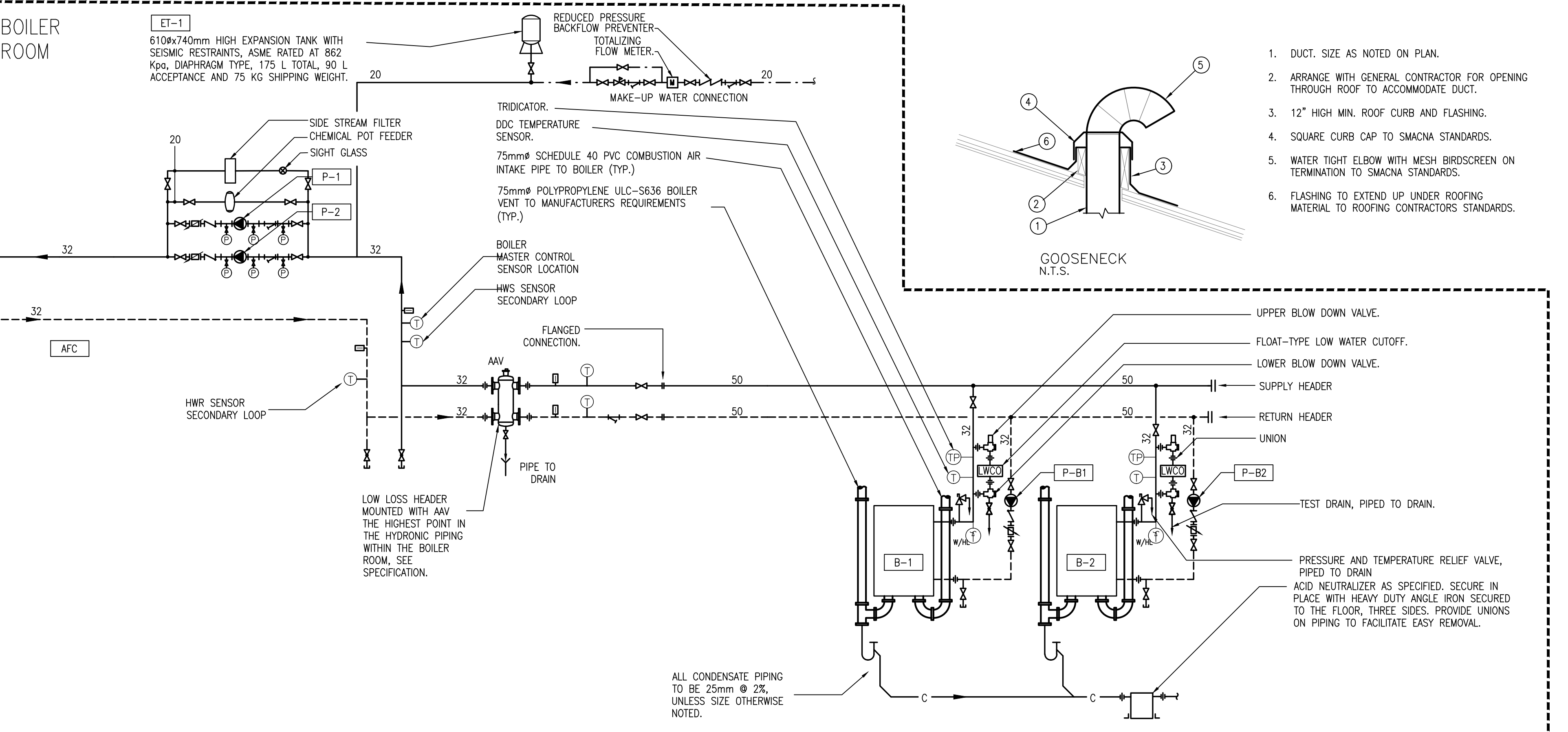
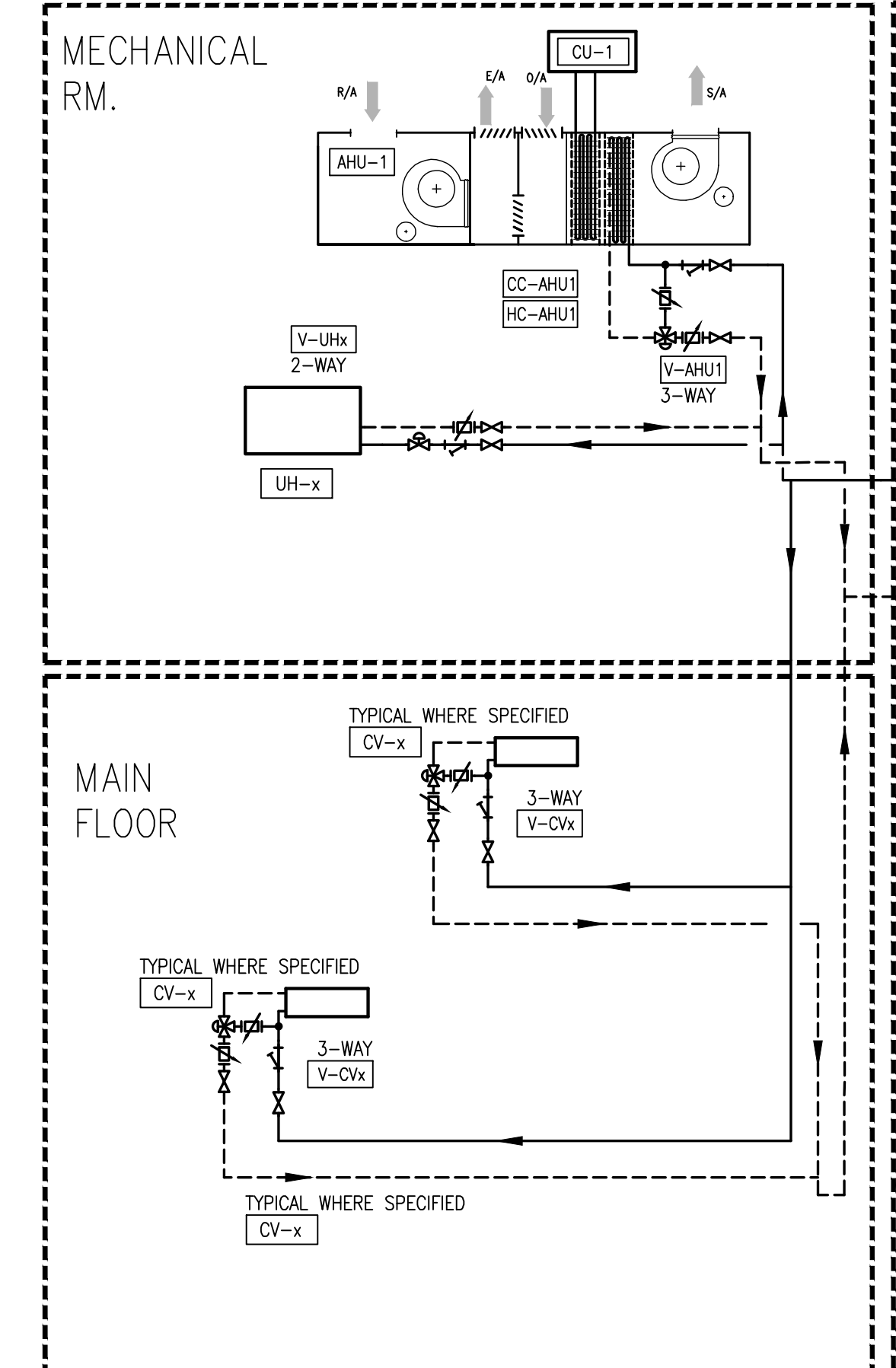
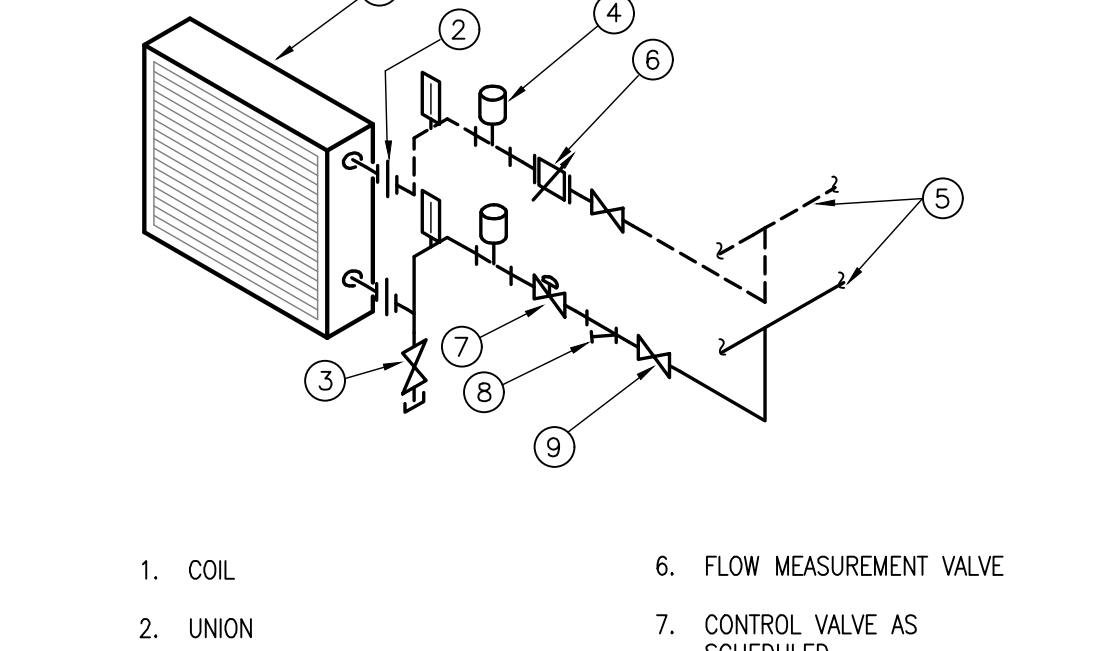
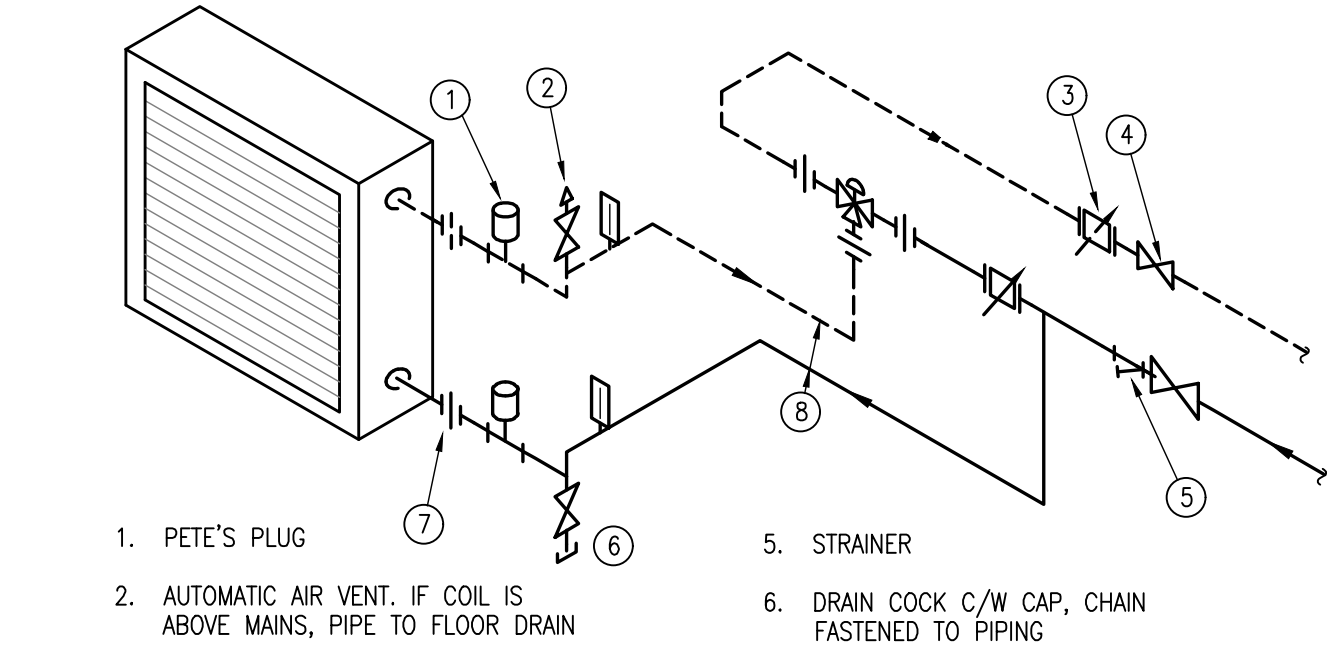
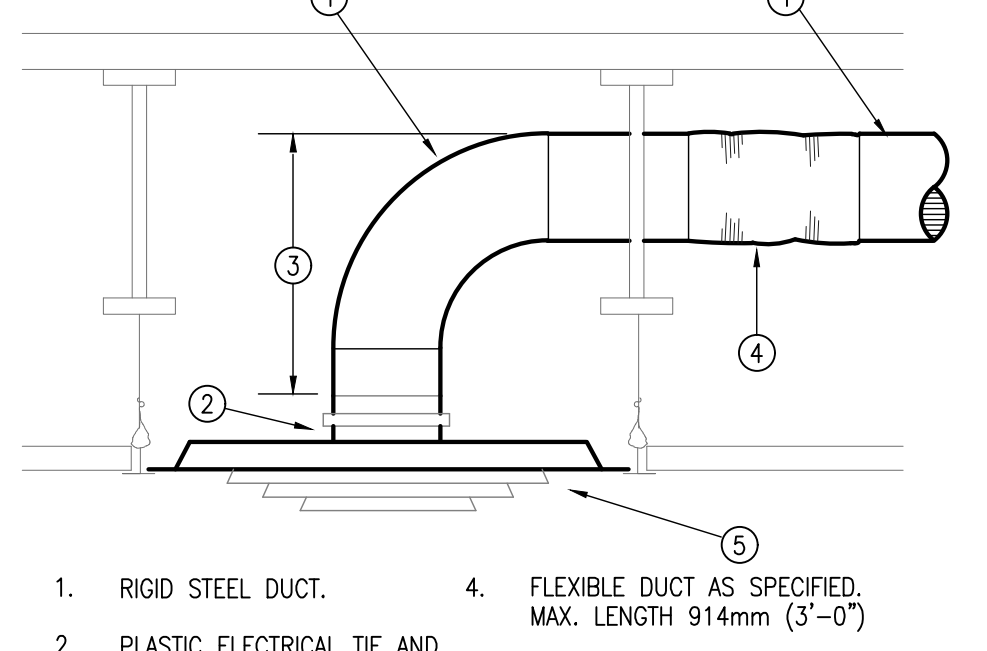
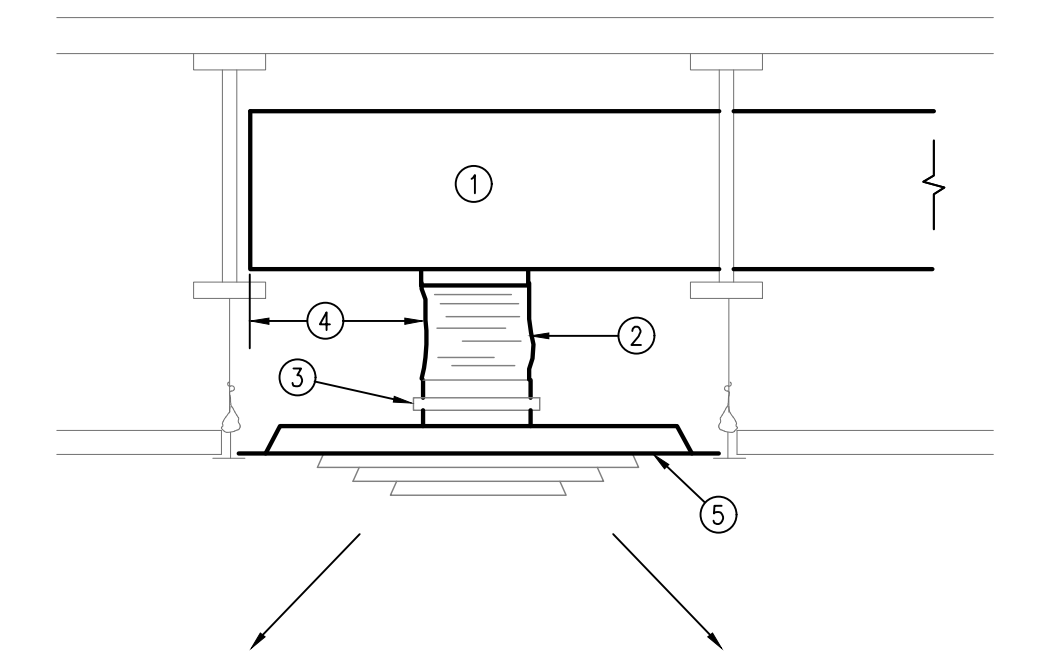
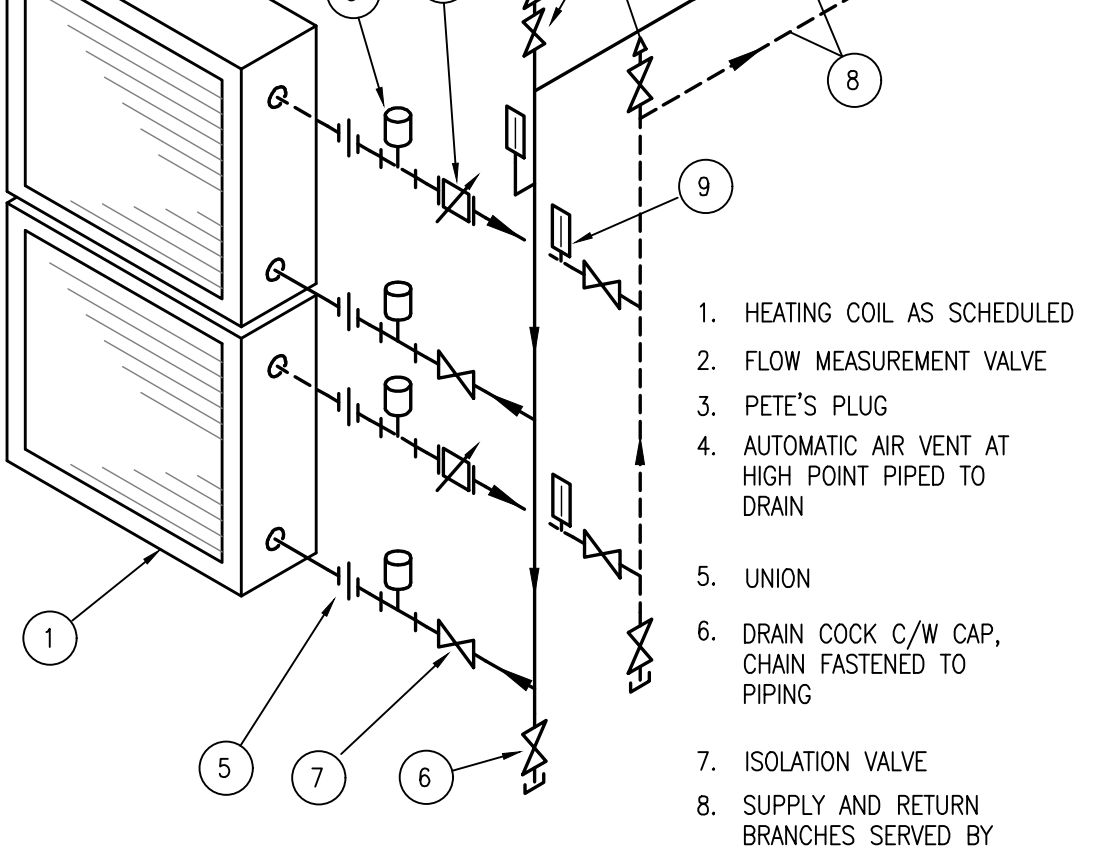
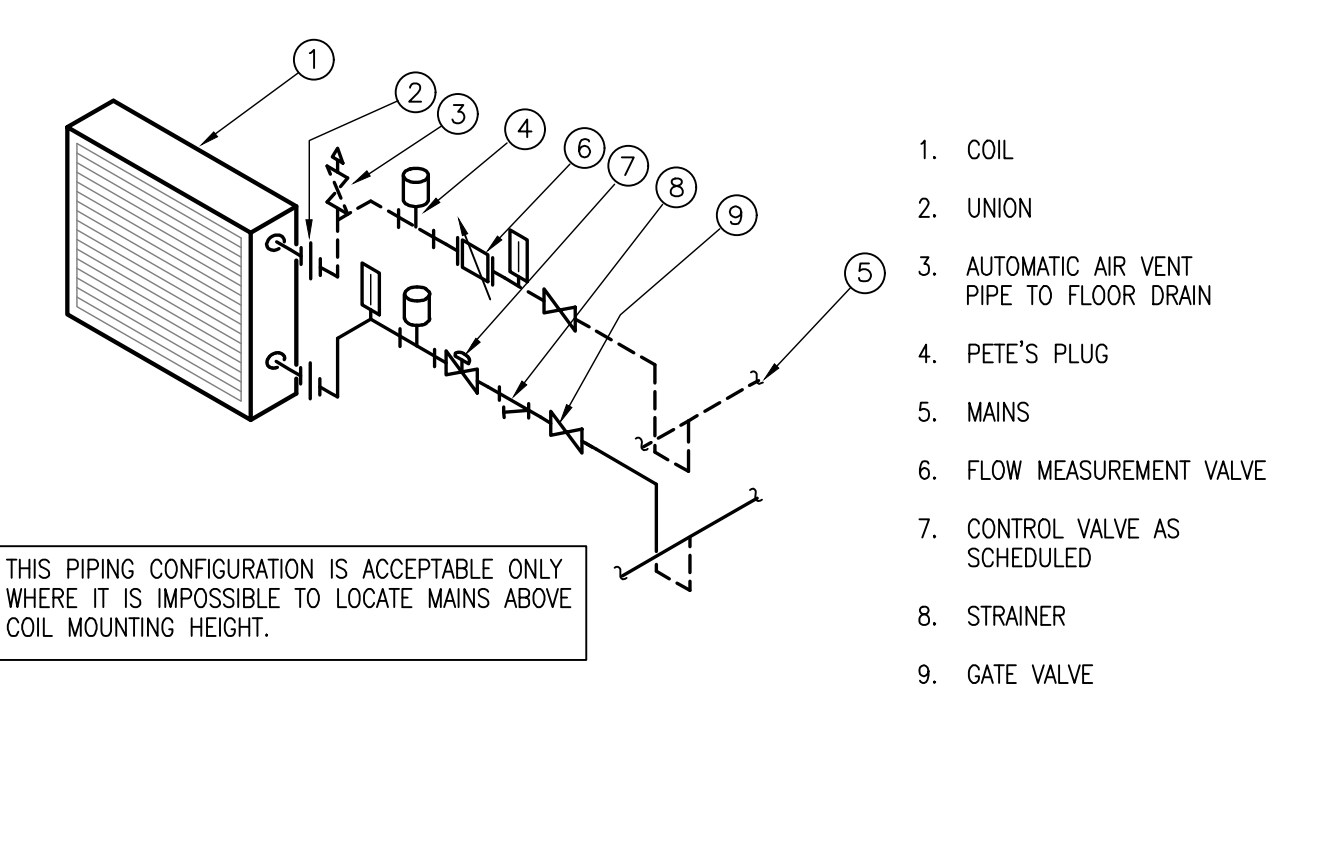
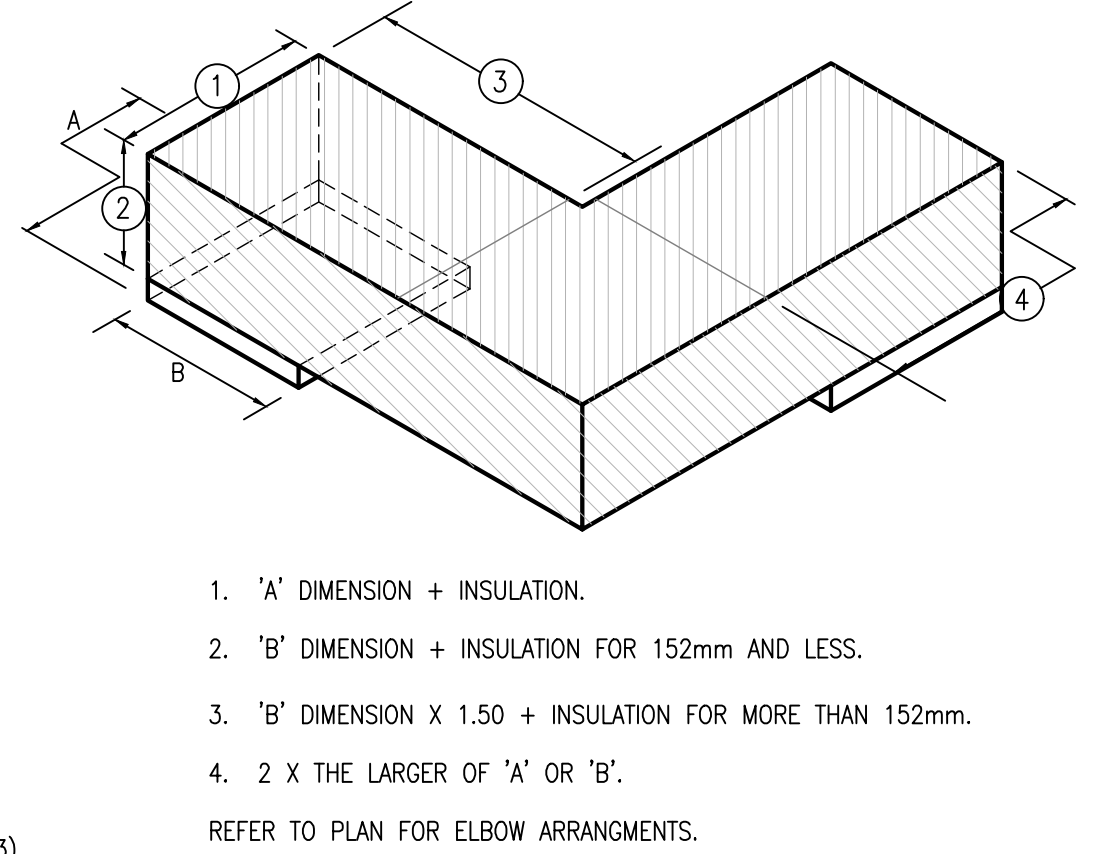
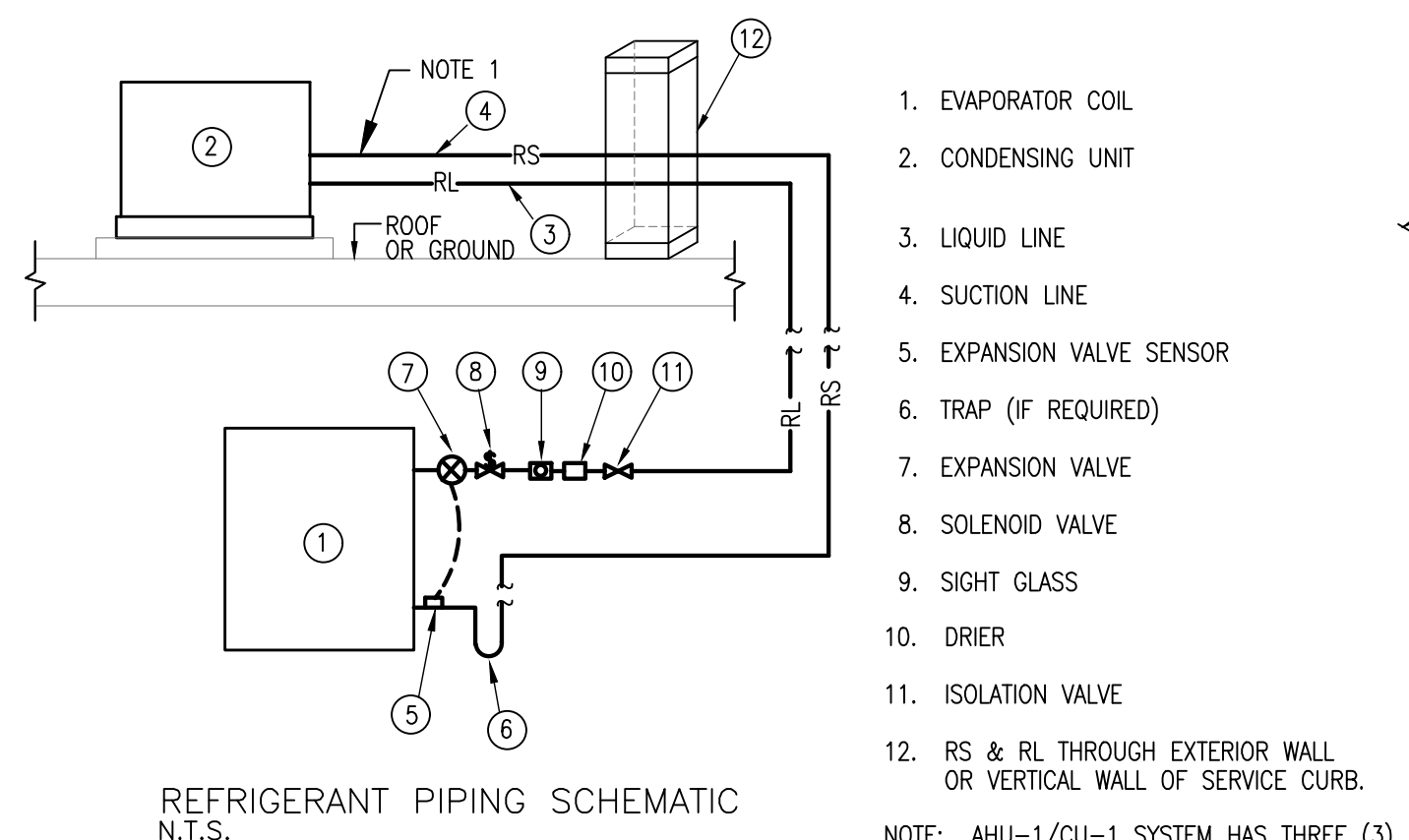
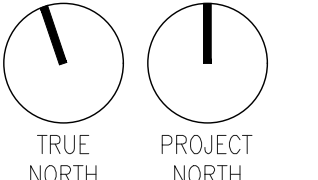
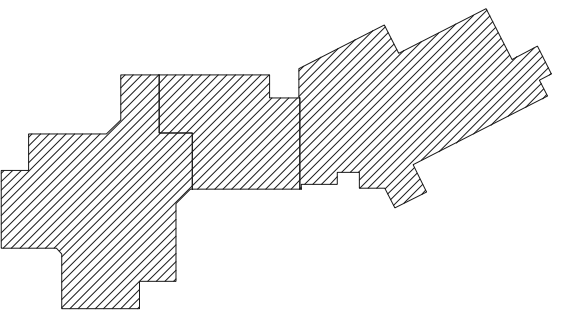
**DRAWING M-4 NOTES: BUILDING E-1**

- M4.17 150 Ø E/A BALANCED TO 26 L/S WITH VOLUME DAMPER AND TERMINATED WITH BIRDSCREEN IN CRAWLSPACE, CONNECTED TO 250x100 E/A UP BETWEEN WALL STUDS TO EXHAUST FAN ABOVE T-BAR CEILING.
- M4.18 250x100 E/A WITH BDD ON OUTLET OF EXHAUST FAN, TERMINATED WITH ROOF GOOSENECK. ALL PORTIONS OF 250x100 E/A FROM CRAWLSPACE TO ROOF TERMINATION SHALL BE THERMALLY WRAPPED WITH 25mm INSULATION.
- M4.19 250x100 O/A WITH 50mm THERMAL WRAP FROM ROOF GOOSENECK TO MAKE-UP AIR UNIT INLET. INSTALL UNIT, DUCTS AND CONTROLS PER MANUFACTURER'S INSTALLATION MANUAL.
- M4.20 250x100 O/A FROM MUA-1 DOWN BETWEEN WALL STUDS TO 150 Ø S/A IN CRAWLSPACE, TERMINATED WITH BIRD SCREEN NEAR EXTERIOR SOUTH WALL OF CRAWLSPACE. S/A DOWNSTREAM OF MUA-1 NOT INSULATED.

**DRAWING M-4 NOTES:**

- M4.1 MOUNT OUTDOOR AIR INTAKE LOUVER SO THAT THE BOTTOM IS AT LEAST 2m ABOVE GRADE PER CSA Z317.2
- M4.2 AIR HANDLER WITH HYDRONIC PRE-HEATING AND DX COOLING COILS. SEE SPECIFICATION.
- M4.3 PROVIDE 150mm HIGH CONCRETE HOUSE KEEPING PAD AT LEAST 150mm LARGER THAN FOOTPRINT OF EQUIPMENT.
- M4.4 BOILERS COMBUSTION AIR INTAKE AND VENT PIPES UP THROUGH ROOF. TERMINATE AS PER MANUFACTURER'S RECOMMENDATIONS AND CSA B149.1M3.3.
- M4.5 DDC PANEL AND FIBER PATCH PANEL.
- M4.6 UNIT HEATER HANGING FROM ABOVE.
- M4.7 CONNECT BOILERS TO EMERGENCY SHUT DOWN SWITCH. SEE ELECTRICAL DRAWINGS.
- M4.8 RELIEF AIR DUCT SERVING AHU-1, WITH 25mm ACOUSTIC INSULATION, 762x610 THROAT UP THROUGH ROOF TO RELIEF AIR HOOD.
- M4.9 S/A DUCT FROM AHU-1, WITH 25mm ACOUSTIC INSULATION.
- M4.10 RETURN AIR DUCT SERVING AHU-1, WITH 25mm ACOUSTIC INSULATION.
- M4.11 ELECTRIC DOMESTIC WATER HEATER AND RECIRC. PUMP, SEE PLUMBING DRAWINGS.
- M4.12 PROVIDE 1070mm CLEARANCE ON END OF CONDENSING UNIT FOR ELECTRICAL SERVICE CLEARANCE, 915mm ON CONDENSER ACCESS SIDE FOR SERVICE AND 1525mm ON CONDENSER COIL SIDE FOR PROPER AIR FLOW.
- M4.13 E/A DUCT FOR BOILER ROOM EXHAUST FAN, UP THROUGH ROOF.
- M4.14 EXHAUST AIR DUCT THROUGH ROOF. PROVIDE EXHAUST FAN MANUF. MATCHING HOOD TERMINAL ON 305mm HIGH ROOF CURB.
- M4.15 WALL MOUNTED EXHAUST FAN. LOCATE FANS ACCESSIBLE FROM FLAT ROOF.
- M4.16 PROVIDE ELECTRIC BASEBOARD HEATER, 208/1/60 VOLTS, 990 W/M, WHITE, 20 GAUGE CONSTRUCTION AND LOW VOLTAGE CONNECTION COMPARTMENT WITH SINGLE POLE RELAY, 24V COIL AND TRANSFORMER 208V/24V.





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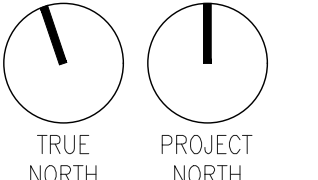
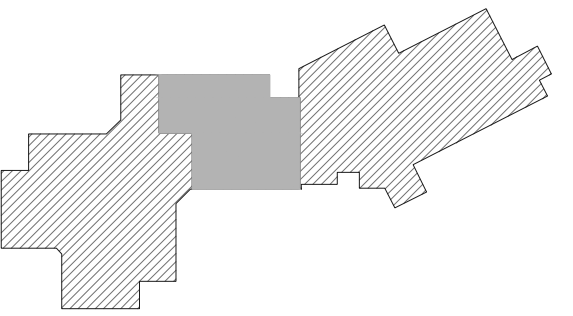
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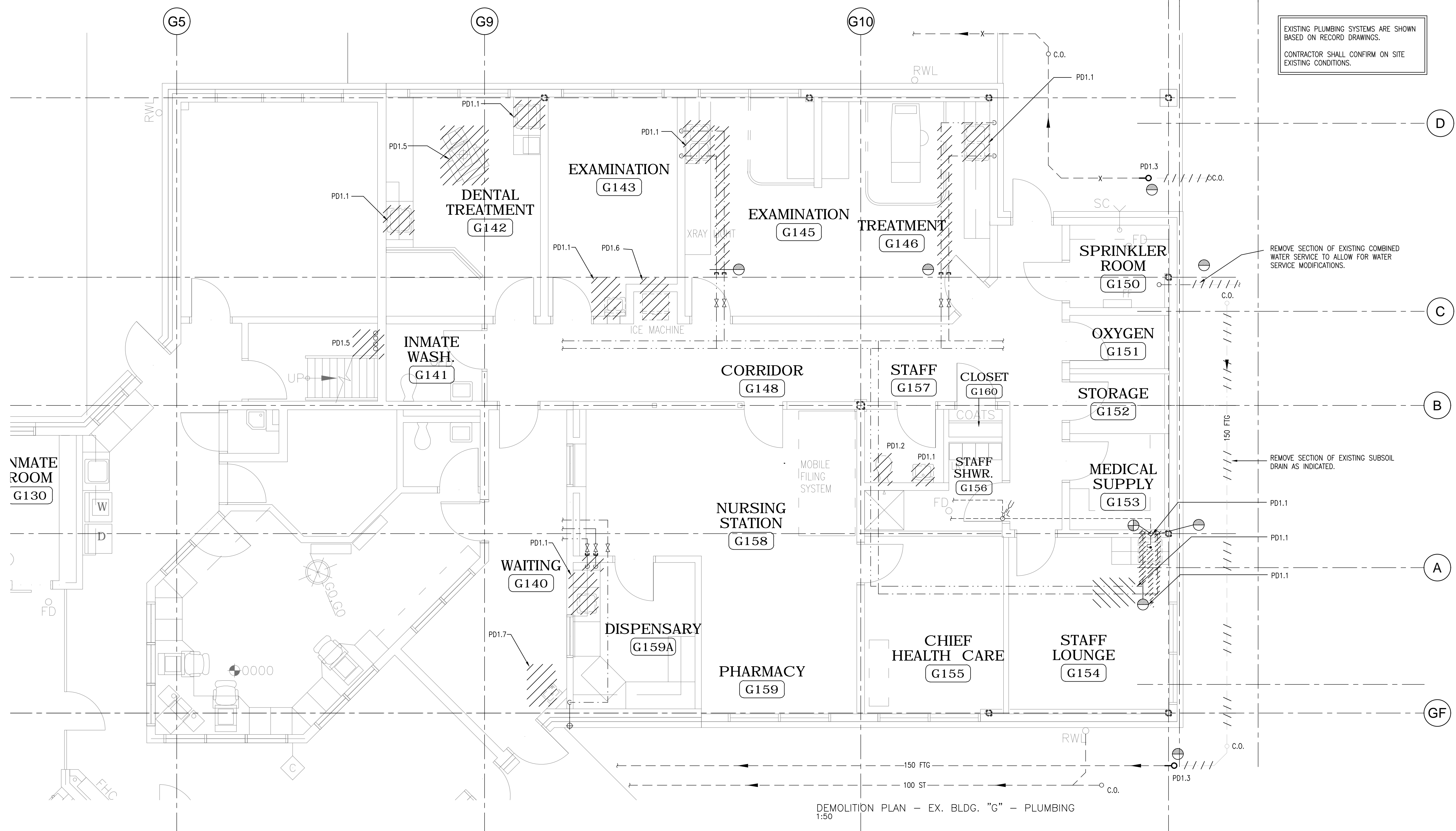




PLUMBING LEGEND			
--- DOMESTIC COLD WATER	— PIPE DROP	— PIPE CAP	⊕ RELIEF VALVE
--- DOMESTIC HOT WATER	--- SANITARY VENT	⊘ ISOLATION VALVE	⊕ PUMP
--- DOMESTIC HOT WATER RECIRCULATION	--- DRAIN LINE BELOW SLAB	⊘ FLOW MEASUREMENT VALVE	⊕ SUPERVISED SHUT-OFF VALVE
— S — SANITARY DRAIN/SEWER	— COND — CONDENSATE DRAIN	⊘ CHECK VALVE	⊕ BACKFLOW PREVENTOR
— ST — STORM DRAIN/SEWER	⊘ CLEANOUT	⊘ SOLENOID VALVE	⊕ AIR VENT
— G — GAS	⊘ VENT TERMINATION	⊘ PRESSURE REDUCING VALVE	⊕ VACUUM BREAKER
— X — SUBSOIL DRAIN	⊘ FLOOR DRAIN	⊕ UNION	⊕ PRESSURE GAUGE WITH SPHON
— A — COMPRESSED AIR	⊘ ROOF DRAIN	⊕ HOSE BIBB	⊕ TEMPERATURE GAUGE
— V — VACUUM	— EXPANSION COMPENSATOR AND ALIGNMENT GUIDES	⊕ NON-FREEZE WALL HYDRANT	⊕ FLEXIBLE CONNECTOR
→ FLOW DIRECTION	⊕ PIPE ANCHOR	⊕ POINT OF CONNECTION	⊕ CONCRETE THRUST BLOCK
⊕ PIPE RISER		⊕ POINT OF DISCONNECTION	XX (XX) SIZE OF PIPE (FIXTURE UNITS)

**DRAWING P-1 NOTES:**

- PD1.1 REMOVE EXISTING SINK AND CAP-OFF EXISTING DHW, DCW, VENT AND SANITARY PIPE. REMOVE REDUNDANT PIPING.
- PD1.2 REMOVE EXISTING WATER CLOSET. CAP-OFF EXISTING DCW, VENT AND SANITARY PIPE. REMOVE REDUNDANT PIPING.
- PD1.3 REMOVE SECTION OF EXISTING SUBSOIL DRAIN, EXTEND PIPING AND PROVIDE CLEANOUT.
- PD1.5 REMOVE EXISTING CW, COMPRESSED AIR AND VACUUM LINES SERVICES FROM THE RELOCATED EXISTING DENTAL CHAIR. CAP PIPING IN SLAB. CONFIRM EXACT LOCATION ON SITE. REMOVE EXISTING DENTAL EQUIPMENT AND PIPING IN THE EXISTING MEZZANINE MECHANICAL ROOM. TURN OVER EQUIPMENT TO DEPARTMENTAL REPRESENTATIVE.
- PD1.6 REMOVE EXISTING ICE MACHINE AND FLOOR DRAIN. CAP OFF EXISTING CW AND SANITARY PIPE. REMOVE REDUNDANT PIPING.
- PD1.7 REMOVE EXISTING DRINKING FOUNTAIN, CAP OFF EXISTING CW AND SANITARY AND VENT PIPES. REMOVE REDUNDANT PIPING.



EXISTING PLUMBING SYSTEMS ARE SHOWN BASED ON RECORD DRAWINGS.  
CONTRACTOR SHALL CONFIRM ON SITE EXISTING CONDITIONS.

REMOVE SECTION OF EXISTING COMBINED WATER SERVICE TO ALLOW FOR WATER SERVICE MODIFICATIONS.

REMOVE SECTION OF EXISTING SUBSOIL DRAIN AS INDICATED.

DEMOLITION PLAN - EX. BLDG. "G" - PLUMBING  
1:50

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	17-09-01

Client/Client: **CORRECTIONAL SERVICE OF CANADA**

Project title/Titre du projet: **AGASSIZ, BRITISH COLUMBIA 4732 CEMETERY ROAD PO BOX 1600 MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE HEALTH CARE EXPANSION**

Consultant Signature Only

Designed by/Concept par: **GP**

Drawn by/Dessiné par: **RV**

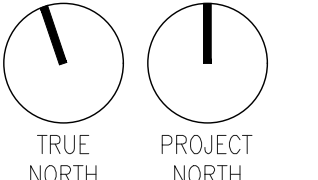
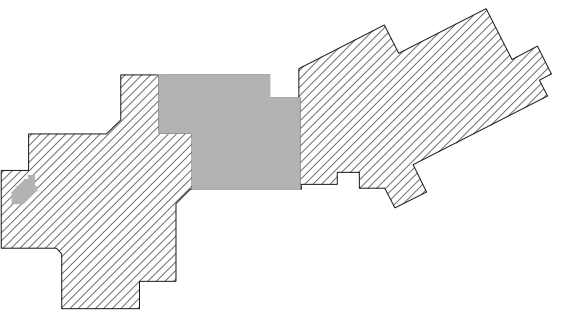
PSPC Project Manager/Administrateur de Projets SPAC: **TONY TANG**

Regional Manager, Architectural and Engineering Services / Gérant régional, Services d'architecture et de génie, SPAC: **PREETIPAL PAUL**

Drawing title/Titre du dessin: **DEMOLITION EXISTING BUILDING MAIN FLOOR PLAN PLUMBING**

Project No./No. du projet: <b>R.077724.001</b>	Sheet/Feuille: <b>P-1</b>	Revision no./La Révision no.: <b>5</b>
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Revision/Revisión	Description/Description	Date/Date
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Client/Client  
**CORRECTIONAL SERVICE OF CANADA**

Project title/Titre du projet  
**AGASSIZ, BRITISH COLUMBIA  
4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE  
HEALTH CARE EXPANSION**

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Drawn by/Dessiné par  
**RV**

PSPC Project Manager/Administrateur de Projets SPAC  
**TONY TANG**

Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architecture et de génie, SPAC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin

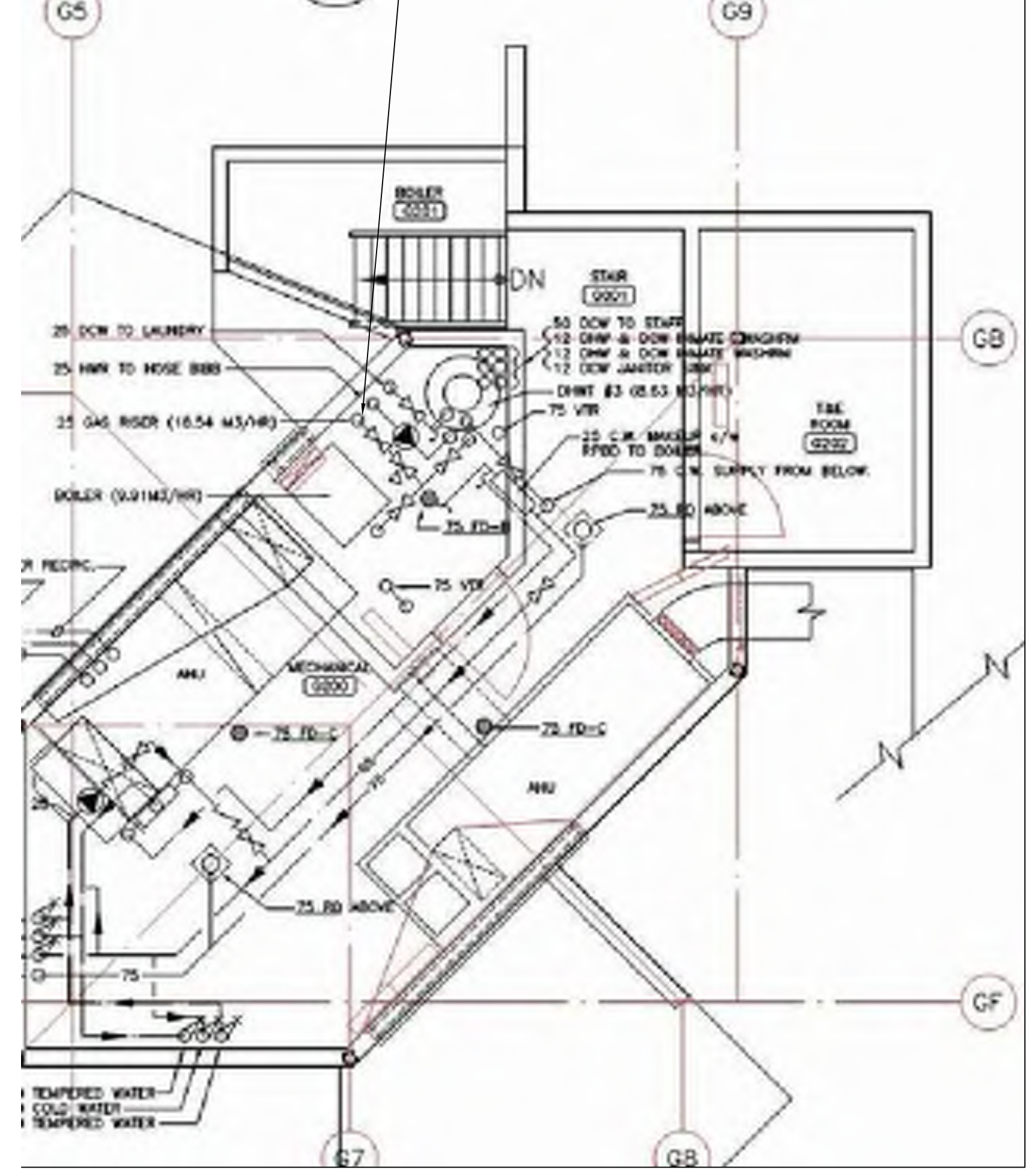
**RENOVATION  
EXISTING BUILDING  
MAIN FLOOR PLAN  
PLUMBING**

Project No./No. du projet  
**R.077724.001**

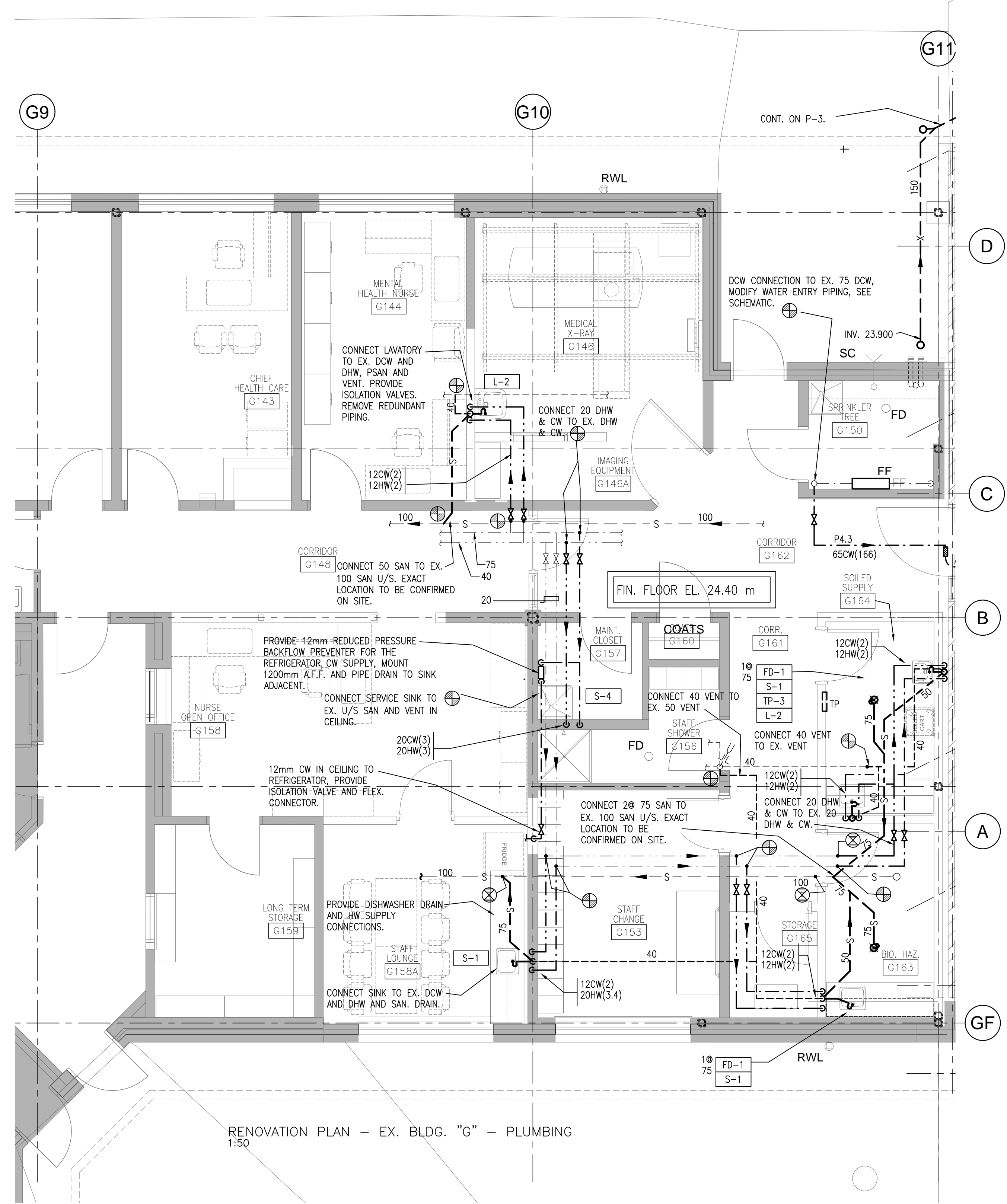
Sheet/ Feuille  
**P-2**  
OF  
**5**

Revision no./  
La Révision  
no.

PROVIDE GAS METER FOR EXISTING 25mm RISER IN THE EXISTING MECHANICAL ROOM IN THE MEZZANINE. CONFIRM EXACT LOCATION ON SITE. METER TO BE MONITORED BY DDC. REFER TO SPECIFICATIONS.

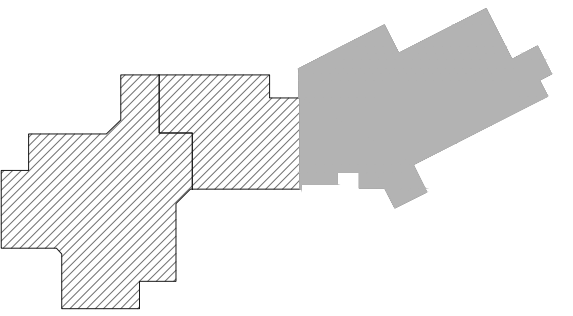


EXISTING MECHANICAL RM. - PLUMBING  
1:50



RENOVATION PLAN - EX. BLDG. "G" - PLUMBING  
1:50





Revision/Revisión	Description/Description	Date/Date
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**CORRECTIONAL SERVICE OF CANADA**

Project title/Titre du projet:  
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4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE  
HEALTH CARE EXPANSION**

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Designed by/Concept par: GP

Drawn by/Dessiné par: RV

PSPC Project Manager/Administrateur de Projets SPAC: TONY TANG

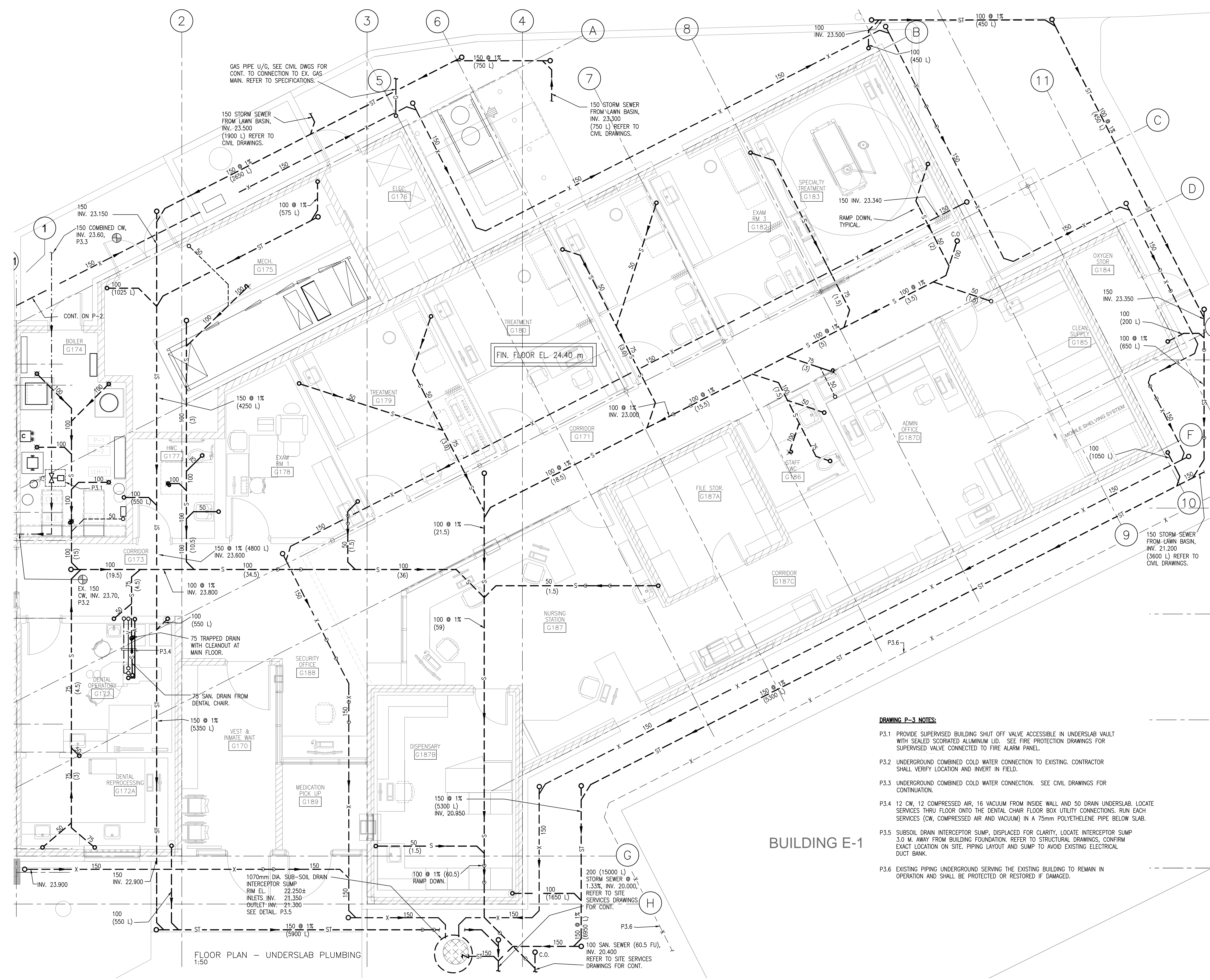
Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architecture et de génie, SPAC: PREETIPAL PAUL

Drawing title/Titre du dessin: ADDITION MAIN FLOOR PLAN PLUMBING UNDERSLAB

Project No./No. du projet: R.07724.001

Sheet/ Feuille: P-3 OF 5

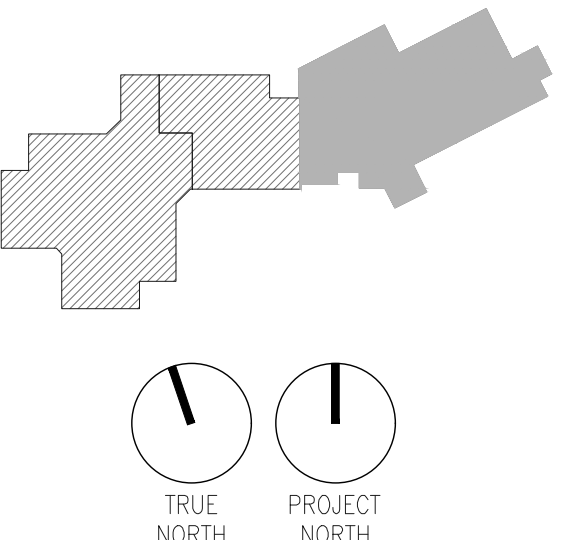
Revision no./La Revisión no.:



- DRAWING P-3 NOTES:**
- P3.1 PROVIDE SUPERVISED BUILDING SHUT OFF VALVE ACCESSIBLE IN UNDERSLAB VAULT WITH SEALED SCORRIATED ALUMINUM LID. SEE FIRE PROTECTION DRAWINGS FOR SUPERVISED VALVE CONNECTED TO FIRE ALARM PANEL.
  - P3.2 UNDERGROUND COMBINED COLD WATER CONNECTION TO EXISTING. CONTRACTOR SHALL VERIFY LOCATION AND INVERT IN FIELD.
  - P3.3 UNDERGROUND COMBINED COLD WATER CONNECTION. SEE CIVIL DRAWINGS FOR CONTINUATION.
  - P3.4 12 CW, 12 COMPRESSED AIR, 16 VACUUM FROM INSIDE WALL AND 50 DRAIN UNDERSLAB. LOCATE SERVICES THRU FLOOR ONTO THE DENTAL CHAIR FLOOR BOX UTILITY CONNECTIONS. RUN EACH SERVICES (CW, COMPRESSED AIR AND VACUUM) IN A 75mm POLYETHYLENE PIPE BELOW SLAB.
  - P3.5 SUBSOIL DRAIN INTERCEPTER SUMP, DISPLACED FOR CLARITY, LOCATE INTERCEPTER SUMP 3.0 M. AWAY FROM BUILDING FOUNDATION. REFER TO STRUCTURAL DRAWINGS, CONFIRM EXACT LOCATION ON SITE. PIPING LAYOUT AND SUMP TO AVOID EXISTING ELECTRICAL DUCT BANK.
  - P3.6 EXISTING PIPING UNDERGROUND SERVING THE EXISTING BUILDING TO REMAIN IN OPERATION AND SHALL BE PROTECTED OR RESTORED IF DAMAGED.

FLOOR PLAN - UNDERSLAB PLUMBING  
1:50





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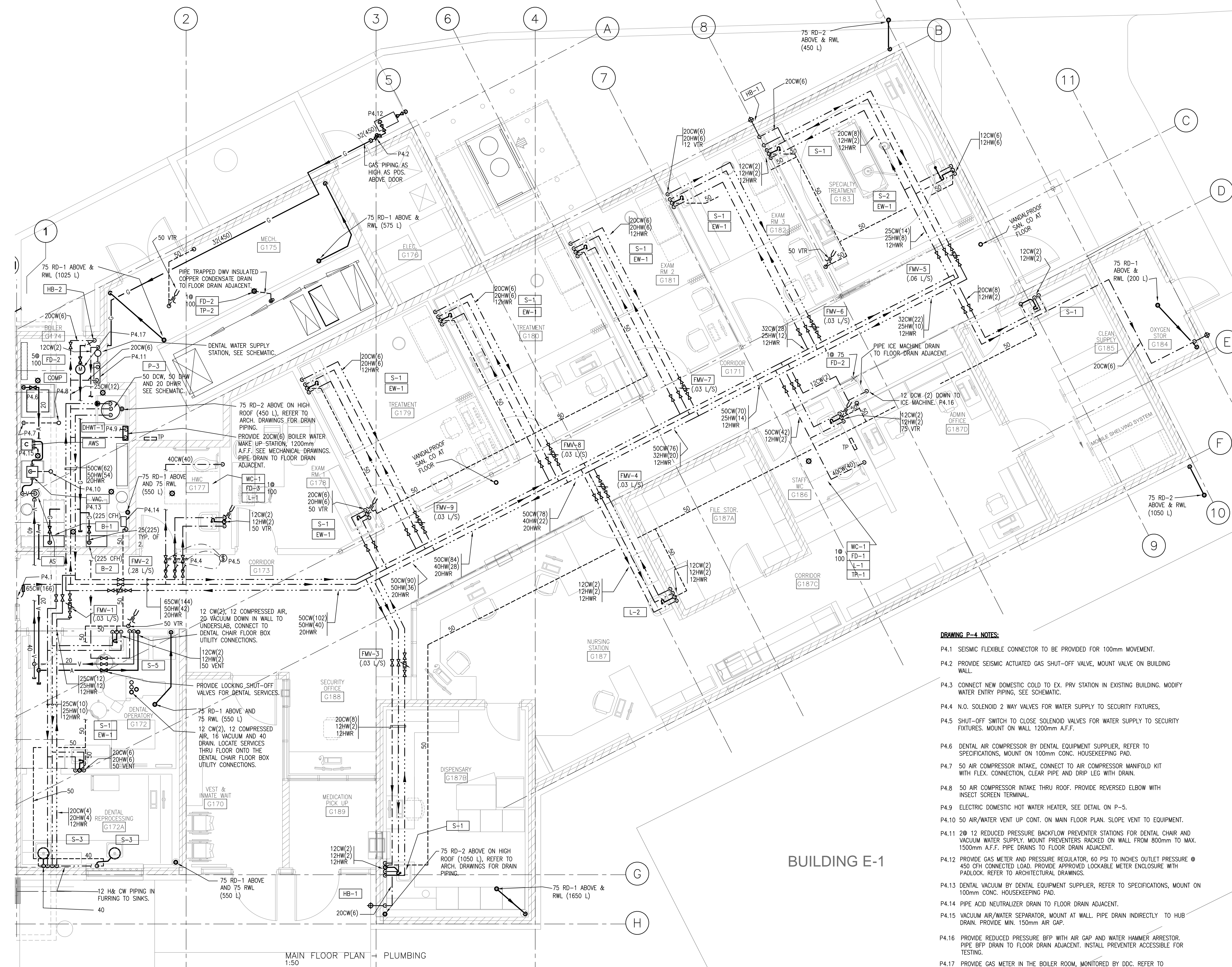
Project title/Titre du projet  
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4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE  
HEALTH CARE EXPANSION**

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**GP**  
Drawn by/Dessiné par  
**RV**  
PSPC Project Manager/Administrateur de Projets SPAC  
**TONY TANG**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architecture et de génie, SPAC  
**PREETPAL PAUL**  
Drawing title/Titre du dessin

**ADDITION  
MAIN FLOOR PLAN  
PLUMBING**

Project No./No. du projet  
**R.077724.001**  
Sheet/ Feuille  
**P-4**  
Revision no./La Révision no.  
OF **5**

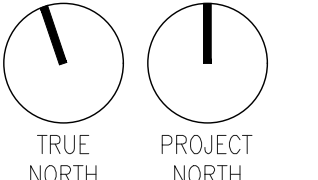
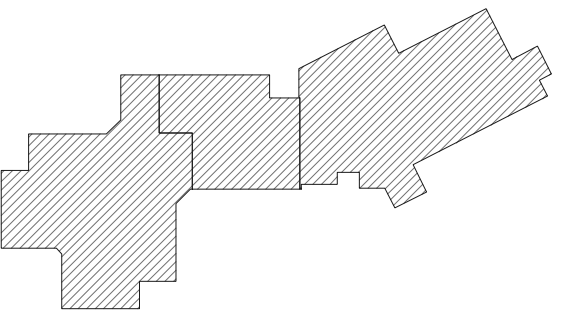


- DRAWING P-4 NOTES:**
- P4.1 SEISMIC FLEXIBLE CONNECTOR TO BE PROVIDED FOR 100mm MOVEMENT.
  - P4.2 PROVIDE SEISMIC ACTUATED GAS SHUT-OFF VALVE, MOUNT VALVE ON BUILDING WALL.
  - P4.3 CONNECT NEW DOMESTIC COLD TO EX. PRV STATION IN EXISTING BUILDING. MODIFY WATER ENTRY PIPING, SEE SCHEMATIC.
  - P4.4 N.O. SOLENOID 2 WAY VALVES FOR WATER SUPPLY TO SECURITY FIXTURES.
  - P4.5 SHUT-OFF SWITCH TO CLOSE SOLENOID VALVES FOR WATER SUPPLY TO SECURITY FIXTURES. MOUNT ON WALL 1200mm A.F.F.
  - P4.6 DENTAL AIR COMPRESSOR BY DENTAL EQUIPMENT SUPPLIER, REFER TO SPECIFICATIONS, MOUNT ON 100mm CONC. HOUSEKEEPING PAD.
  - P4.7 50 AIR COMPRESSOR INTAKE, CONNECT TO AIR COMPRESSOR MANIFOLD KIT WITH FLEX. CONNECTION, CLEAR PIPE AND DRIP LEG WITH DRAIN.
  - P4.8 50 AIR COMPRESSOR INTAKE THRU ROOF. PROVIDE REVERSED ELBOW WITH INSECT SCREEN TERMINAL.
  - P4.9 ELECTRIC DOMESTIC HOT WATER HEATER, SEE DETAIL ON P-5.
  - P4.10 50 AIR/WATER VENT UP CONT. ON MAIN FLOOR PLAN. SLOPE VENT TO EQUIPMENT.
  - P4.11 2@ 12 REDUCED PRESSURE BACKFLOW PREVENTER STATIONS FOR DENTAL CHAIR AND VACUUM WATER SUPPLY. MOUNT PREVENTERS RACKED ON WALL FROM 800mm TO MAX. 1500mm A.F.F. PIPE DRAINS TO FLOOR DRAIN ADJACENT.
  - P4.12 PROVIDE GAS METER AND PRESSURE REGULATOR, 60 PSI TO INCHES OUTLET PRESSURE @ 450 CFH CONNECTED LOAD. PROVIDE APPROVED LOCKABLE METER ENCLOSURE WITH PADLOCK. REFER TO ARCHITECTURAL DRAWINGS.
  - P4.13 DENTAL VACUUM BY DENTAL EQUIPMENT SUPPLIER, REFER TO SPECIFICATIONS, MOUNT ON 100mm CONC. HOUSEKEEPING PAD.
  - P4.14 PIPE ACID NEUTRALIZER DRAIN TO FLOOR DRAIN ADJACENT.
  - P4.15 VACUUM AIR/WATER SEPARATOR, MOUNT AT WALL. PIPE DRAIN INDIRECTLY TO HUB DRAIN. PROVIDE MIN. 150mm AIR GAP.
  - P4.16 PROVIDE REDUCED PRESSURE BFP WITH AIR GAP AND WATER HAMMER ARRESTOR. PIPE BFP DRAIN TO FLOOR DRAIN ADJACENT. INSTALL PREVENTER ACCESSIBLE FOR TESTING.
  - P4.17 PROVIDE GAS METER IN THE BOILER ROOM, MONITORED BY DDC. REFER TO SPECIFICATIONS.

**BUILDING E-1**

MAIN FLOOR PLAN - PLUMBING  
1:50





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Project title/Titre du projet:  
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4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE  
HEALTH CARE EXPANSION**

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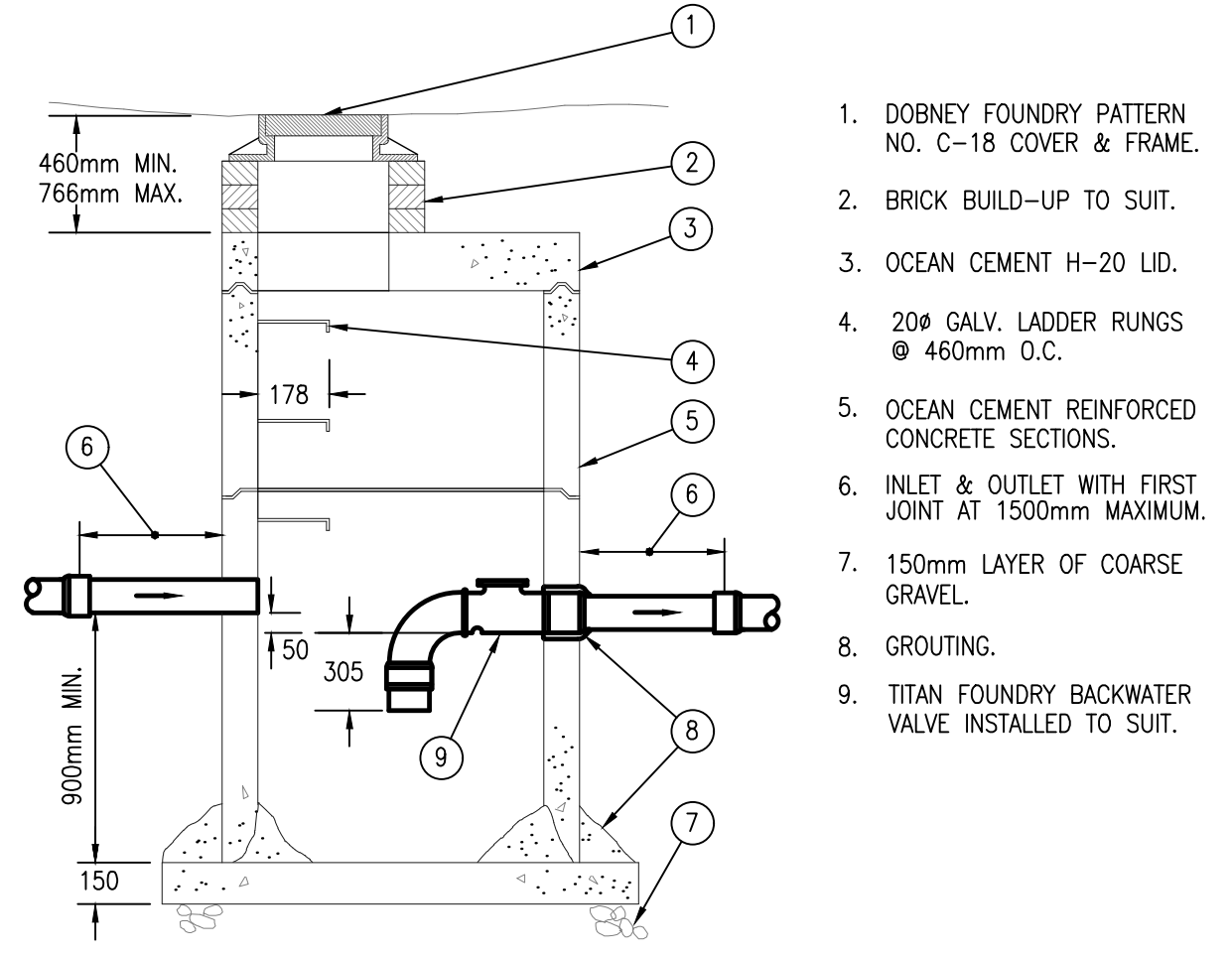
Drawn by/Dessiné par  
**RV**

PSPC Project Manager/Administrateur de Projets SPAC  
**TONY TANG**

Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architectural et de génie, SPAC  
**PREETIPAL PAUL**

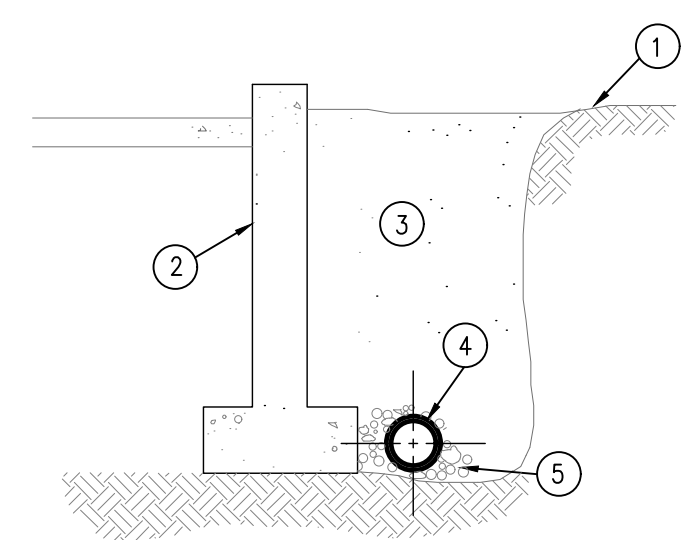
Drawing title/Titre du dessin  
**DETAILS  
PLUMBING**

Project No./No. du projet <b>R.077724.001</b>	Sheet/ Feuille <b>P-5</b> OF <b>5</b>	Revision no./ La Révision no. <b>5</b>
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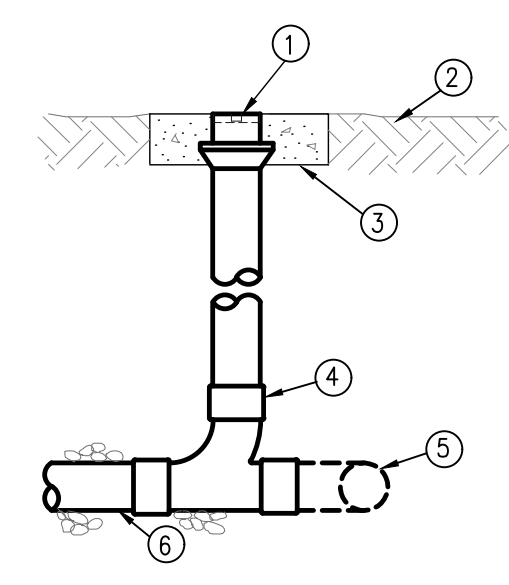
SUMP DETAIL  
N.T.S.

1. DOBNEY FOUNDRY PATTERN NO. C-18 COVER & FRAME.
2. BRICK BUILD-UP TO SUIT.
3. OCEAN CEMENT H-20 LID.
4. 20# GALV. LADDER RUNGS @ 460mm O.C.
5. OCEAN CEMENT REINFORCED CONCRETE SECTIONS.
6. INLET & OUTLET WITH FIRST JOINT AT 1500mm MAXIMUM.
7. 150mm LAYER OF COARSE GRAVEL.
8. GROUTING.
9. TITAN FOUNDRY BACKWATER VALVE INSTALLED TO SUIT.



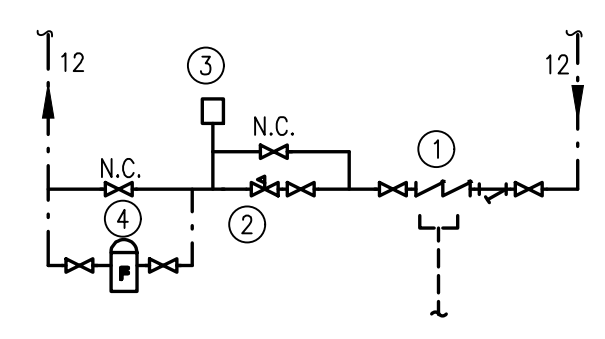
SUB-SOIL DRAIN  
N.T.S.

1. FINISH GRADE.
2. FOUNDATION WALL.
3. BACKFILL MATERIAL, REFER TO SOILS SPECIFICATION.
4. SUB-SOIL DRAIN PIPE.
5. GRANULAR FILL AS SPECIFIED.



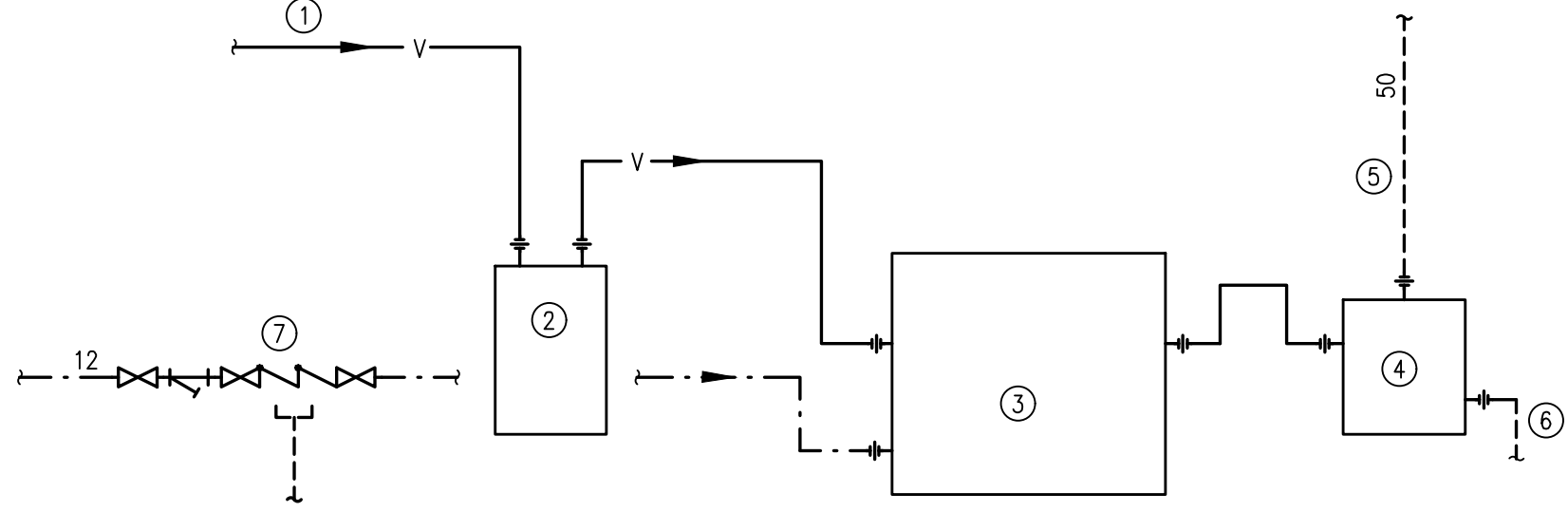
SUB-SOIL DRAIN CLEANOUT  
N.T.S.

1. C.I. CLEANOUT FERRULE WITH BRONZE PLUG 100mm(4") ZURN MODEL 1449-BP (OR APPROVED EQUAL)
2. FINISH GRADE.
3. 406 x 406 x 100mm(16"x16"x4") CONCRETE PAD.
4. 100mm(4") PVC FITTING AS SPECIFIED.
5. AT END OF RUN PROVIDE PVC CAP.
6. PERFORATED PVC AS SPECIFIED.



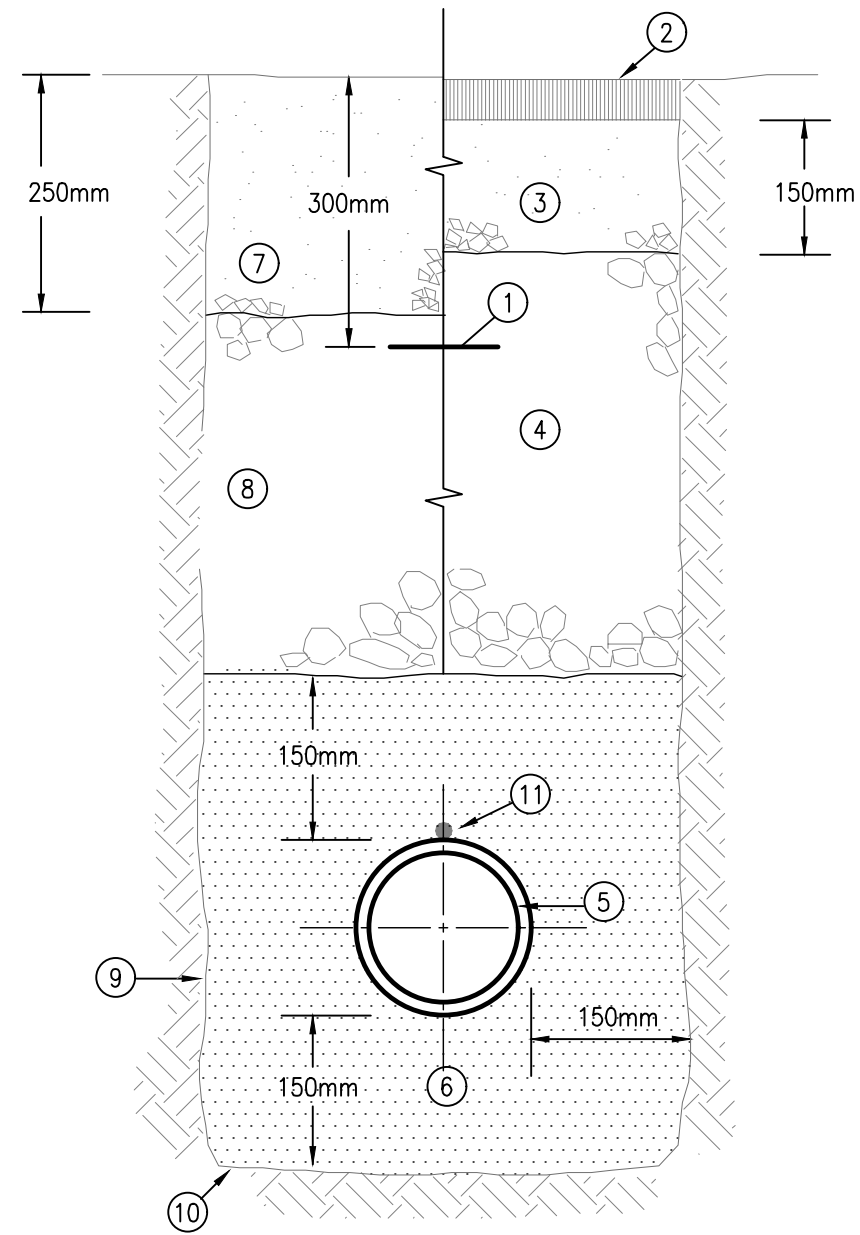
1. REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER AND AIR GAP, PIPE DRAIN TO FLOOR DRAIN ADJACENT. INSTALL PREVENTER 1000mm A.F.F.
2. PRESSURE REDUCING VALVE.
3. WATER HAMMER ARRESTOR.
4. WATER FILTER.

DENTAL WATER PIPING SCHEMATIC  
N.T.S.



1. DENTAL VACUUM MAIN PIPING.
2. AMALGAM SEPARATOR.
3. VACUUM PUMP.
4. WALL MOUNTED AIR/WATER SEPARATOR.
5. VENT THRU ROOF, SLOPE PIPING TOWARD SEPARATOR. TERMINATE WITH REVERSED ELBOW C/W BUGSCREEN.
6. PIPE DRAIN TO FLOOR DRAIN ADJACENT.
7. REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER AND AIR GAP, PIPE DRAIN TO FLOOR DRAIN ADJACENT. INSTALL PREVENTER 1400mm A.F.F.

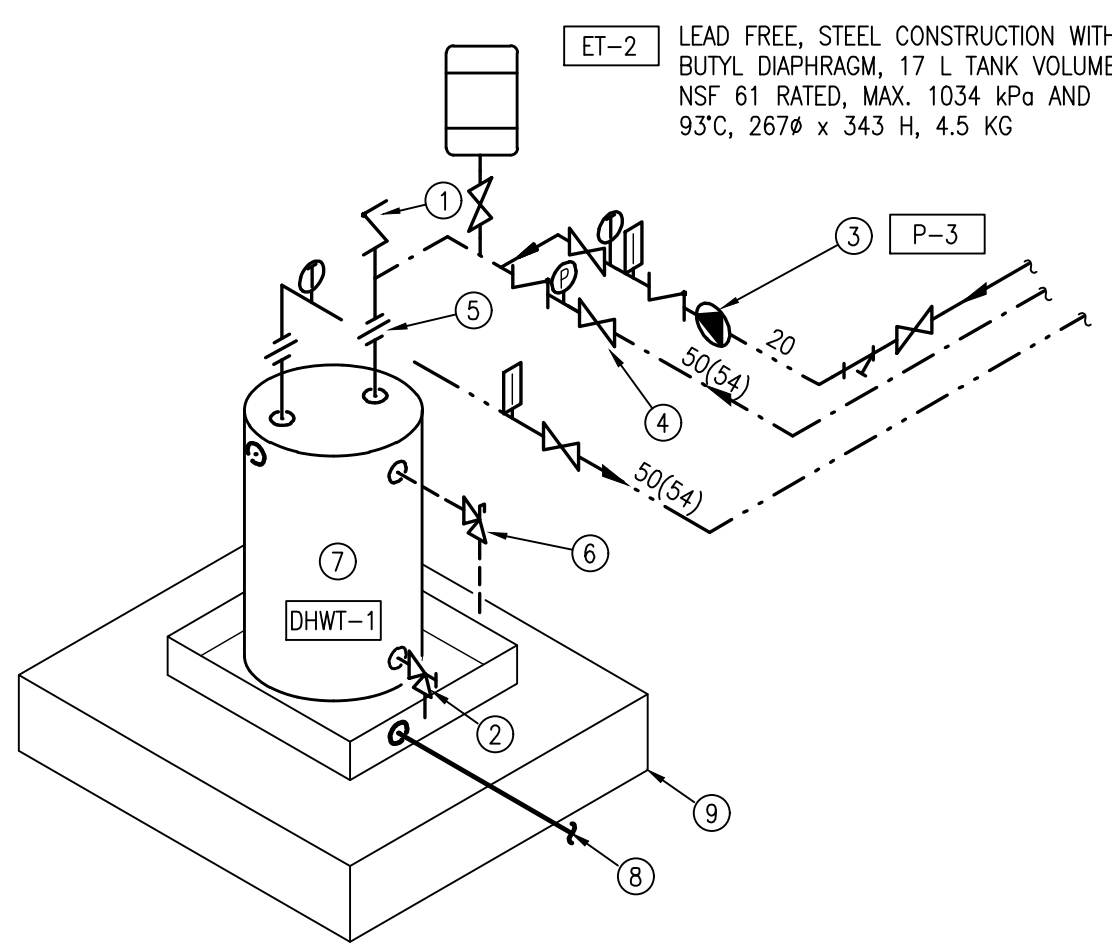
DENTAL VACUUM PIPING SCHEMATIC  
N.T.S.



1. UNDERGROUND WARNING TAPE.
2. ASPHALT PAVEMENT.
3. ASPHALT BASE MATERIAL.
4. WELL COMPACTED CLEAN RIVER SAND OR PIT RUN GRAVEL (MAX. 100mm# ROCK) BACKFILL FOR ROADS, PARKING, AND ALL PAVED AREAS.
5. PLASTIC PIPE AS SPECIFIED.
6. WELL COMPACTED CLEAN RIVER SAND.
7. APPROVED TOP SOIL FOR ALL LAWN AND GARDEN AREAS.
8. APPROVED WELL COMPACTED BACKFILL MATERIAL FOR ALL LAWN AND NO TRAFFIC AREAS.
9. SIDE OF TRENCH.
10. BOTTOM OF TRENCH.
11. TRACER WIRE STRAPPED TO PIPE.

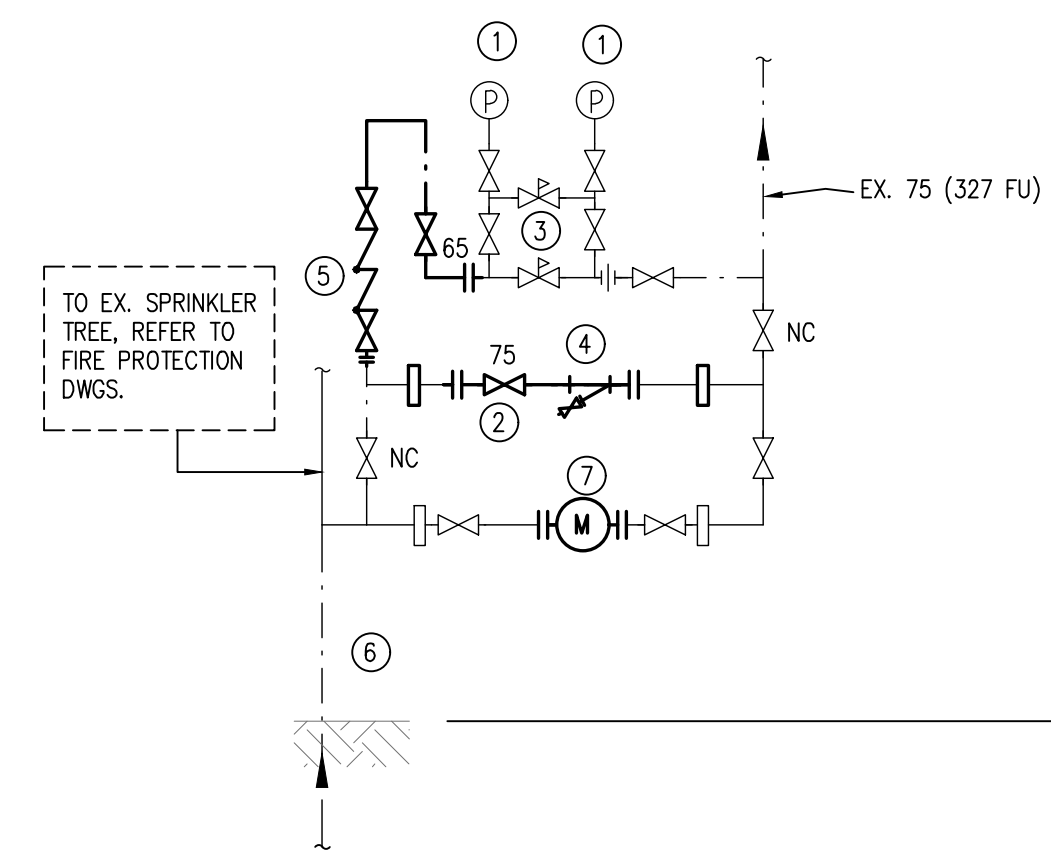
NOTE: SAND SURROUNDING PIPE MUST NOT CONTAIN ANY SHARP MATERIAL WHICH MAY SCORE PIPE.

BEDDING AND BACKFILL FOR BURIED UNDERGROUND GAS PIPING  
N.T.S.



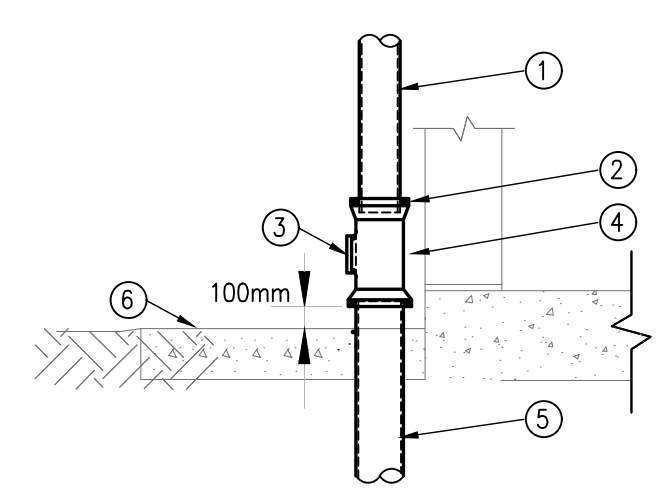
1. ANTI SIPHON INLET AS SPEC'D 20mm (3/4") VACUUM RELIEF VALVE.
2. DRAIN VALVE TO DRAIN PAN
3. RECIRCULATING PUMP, STRAINER, CHECK VALVE AND BALANCE FITTING.
4. ISOLATION VALVE.
5. DI-ELECTRIC UNION.
6. TEMPERATURE & PRESSURE RELIEF VALVE PIPED TO DRAIN PAN.
7. DOMESTIC HOT WATER HEATER
8. GALVANIZED SHEET METAL DRAIN PAN C/W 25mm# DWV COPPER PIPED TO NEAREST FLOOR DRAIN.
9. 100mm HIGH HOUSE KEEPING PAD 150mm LARGER THAN EQUIPMENT FOOTPRINT.

DOMESTIC HOT WATER TANK WITH RECIRCULATING PUMP  
N.T.S.



1. EX. PRESSURE GAUGE TO REMAIN.
2. GATE VALVE.
3. EX. PRESSURE REDUCING VALVES TO REMAIN.
4. MODIFY EXISTING PIPING AND PROVIDE STRAINER.
5. MODIFY EX. PIPING AND PROVIDE DOUBLE CHECK BACKFLOW PREVENTER. INSTALL C.L. OF VERTICAL PREVENTER 1500mm A.F.F.
6. EX. COMBINED INCOMING WATER SERVICE TO REMAIN.
7. REMOVE EXISTING WATER METER AND PROVIDE 65 WATER METER WITH REMOTE READER MONITORED BY DCC.

BACKFLOW PREVENTER AND PRESSURE REDUCING STATION  
N.T.S.



1. 75# CAST IRON "WJ" RAINWATER LEADER. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND PAINTING REQUIREMENTS.
2. "O" RING GASKET BETWEEN RWL, STORM SEWER & CLEANOUT TO SEAL GAP
3. C.O. PLUG
4. 100 # PVC CLEANOUT "T". CONFIRM O.D. OF RWL PRIOR TO INSTALLING CLEANOUT. ANCHOR CLEANOUT TO WALL
5. 100 # STORM SEWER
6. FINISHED GRADE

RAINWATER LEADER BASE  
N.T.S.

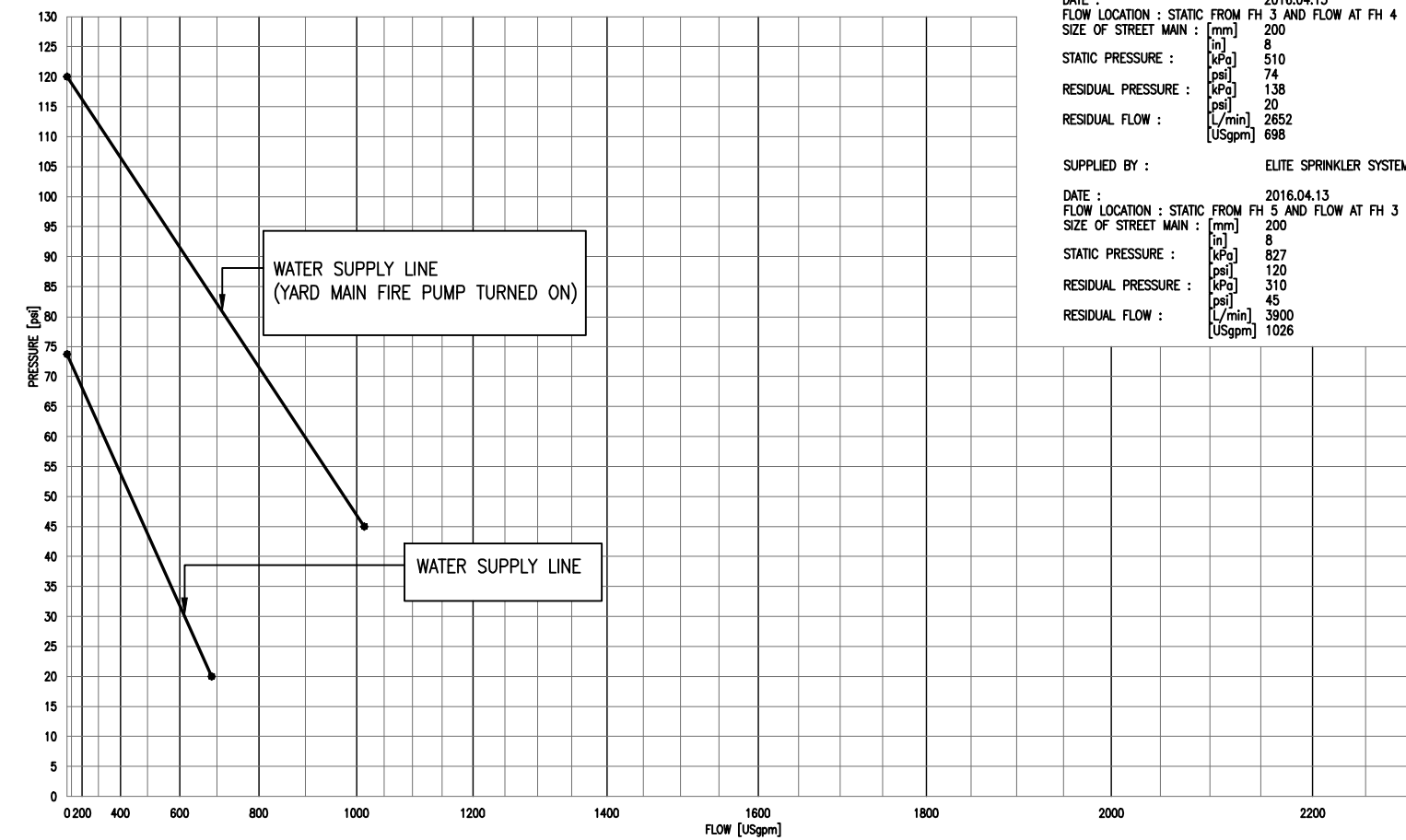


PROJECT : MOUNTAIN INSTITUTE HEALTH CARE ADDITION  
 ADDRESS : 4732 CEMETARY RD.  
 CITY : AGASSIZ, B.C.

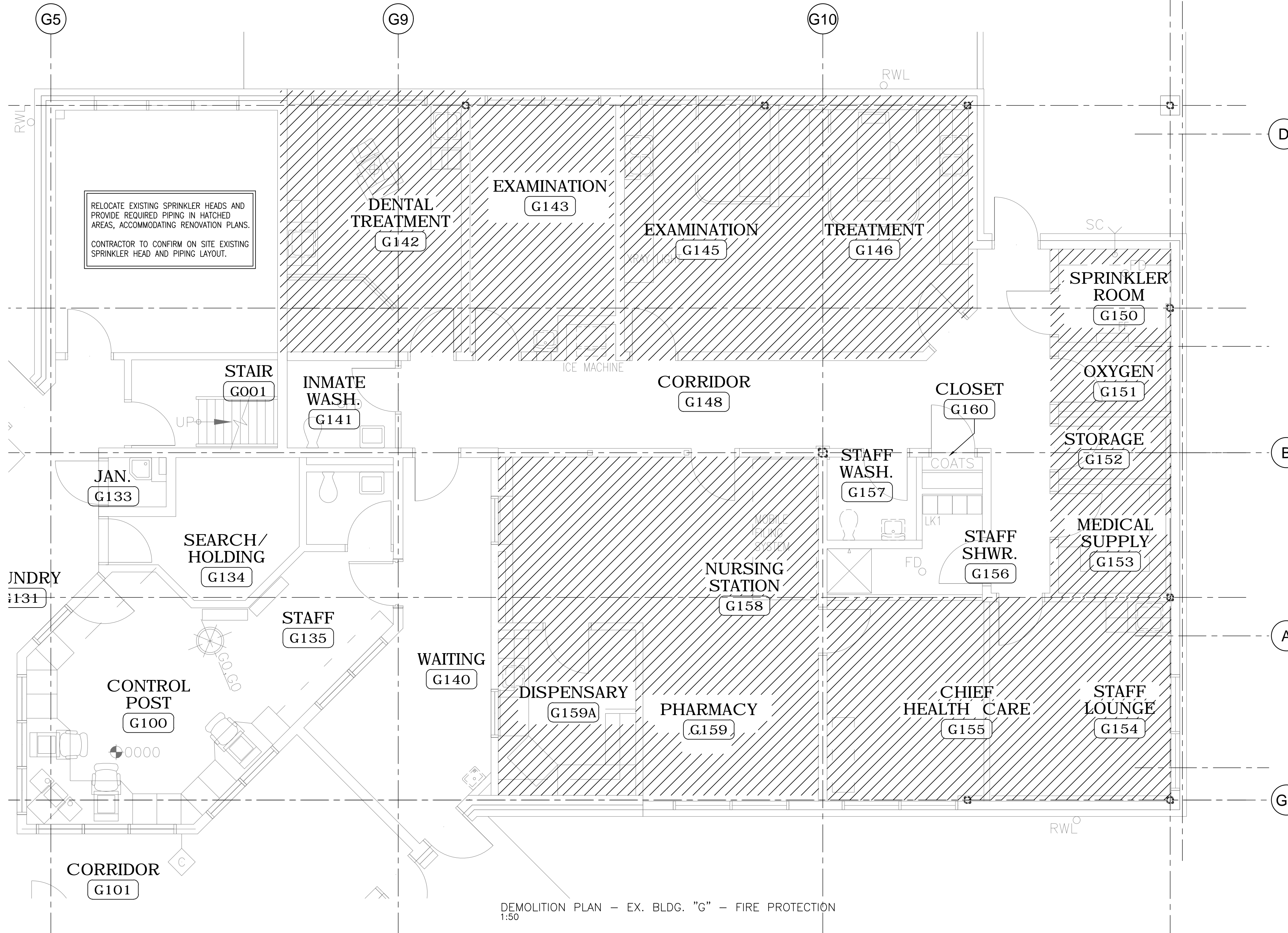
FILE NO. : 1536.00  
 DATE : 2016-04-20  
 WATER SUPPLY DATA

SUPPLIED BY : ELITE SPRINKLER SYSTEMS LTD.  
 DATE : 2016.04.13  
 FLOW LOCATION : STATIC FROM PH 3 AND FLOW AT PH 4  
 SIZE OF STREET MAIN : (mm) 200  
 STATIC PRESSURE : (kPa) 8  
 RESIDUAL PRESSURE : (kPa) 170  
 RESIDUAL FLOW : (L/min) 2502  
 (10gpm) 698

SUPPLIED BY : ELITE SPRINKLER SYSTEMS LTD.  
 DATE : 2016.04.13  
 FLOW LOCATION : STATIC FROM PH 3 AND FLOW AT PH 3 (YARD MAIN FIRE PUMP ON)  
 SIZE OF STREET MAIN : (mm) 200  
 STATIC PRESSURE : (kPa) 829  
 RESIDUAL PRESSURE : (kPa) 170  
 RESIDUAL FLOW : (L/min) 3800  
 (10gpm) 1000



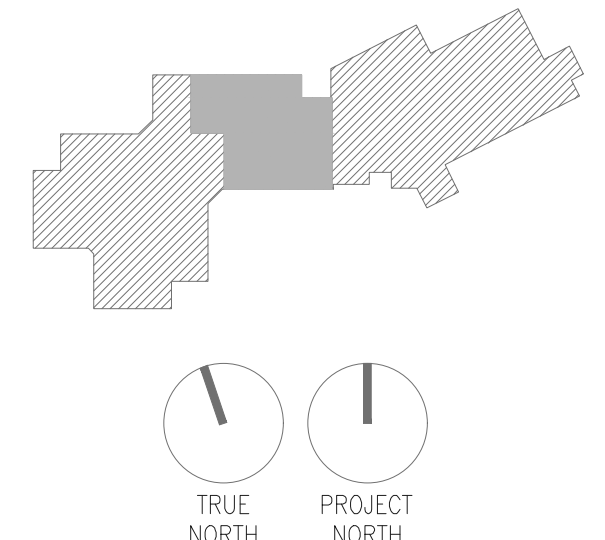
EXISTING SPRINKLER VALVE STATION  
 N.T.S.



**FIRE PROTECTION LEGEND**

- RECESSED, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- UPRIGHT OR PENDENT, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 100°C(212°F), BRASS
- ⊙ PENDENT, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED TWO-PIECE ESCUTCHEON.
- FLUSH, CONCEALED, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- ⊙ RECESSED, QUICK RESPONSE, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- ⊙ UPRIGHT, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 100°C(212°F), BRASS, AND RECESSED, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- DRY PENDENT, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 100°C(212°F), CHROME w/CHROME PLATED ESCUTCHEON.
- ◁ SIDEWALL, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME ESCUTCHEON.
- ◁ DRY SIDEWALL, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME ESCUTCHEON.
- ◁ SIDEWALL, QUICK RESPONSE, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME ESCUTCHEON.
- \* INDICATES CHROME PLATED LISTED GUARD.
- RECESSED, 19.1mm (3/4"), 'K' FACTOR 163(11.4), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- UPRIGHT OR PENDENT, 19.1mm (3/4"), 'K' FACTOR 163(11.4), 100°C(212°F), BRASS
- ⊙ UPRIGHT OR PENDENT, 19.1mm (3/4"), 'K' FACTOR 163(11.4), 100°C(212°F), BRASS AND RECESSED, 19.1mm (3/4"), 'K' FACTOR 163(11.4), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- ▲ WET ALARM VALVE
- ◆ DRY ALARM VALVE
- ⊕ WATERFLOW SWITCH
- ⊖ WATER PRESSURE SWITCH
- ⊗ SUPERVISED SHUT-OFF VALVE
- NEW SPRINKLER PIPE
- - - EXISTING WET SPRINKLER PIPE
- - - NEW DRY SYSTEM PIPE
- - - EXISTING DRY SPRINKLER PIPE
- EXISTING BRASS UPRIGHT
- ⊙ EXISTING PENDENT
- ⊙ EXISTING UPRIGHT AND PENDENT
- EXISTING HEAD/PIPING TO BE REMOVED

NOTE: SPRINKLERS IN LIGHT HAZARD OCCUPANCIES SHALL BE OF THE QUICK RESPONSE TYPE AS PER NFPA 13, 2010.



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	17-09-01

Client/Client: **CORRECTIONAL SERVICE OF CANADA**

Project title/Titre du projet: **AGASSIZ, BRITISH COLUMBIA 4732 CEMETERY ROAD PO BOX 1600 MOUNTAIN INSTITUTE**

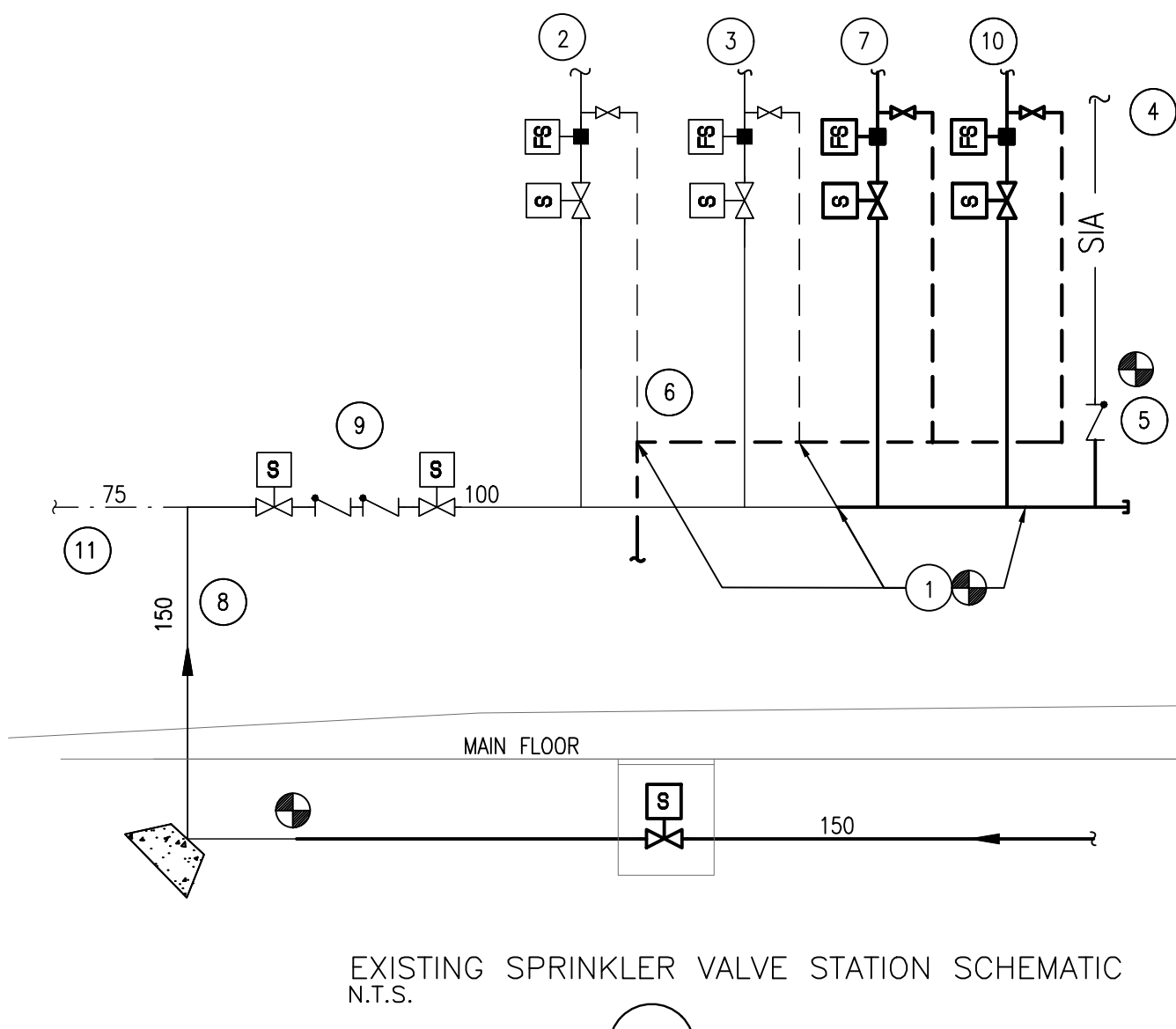
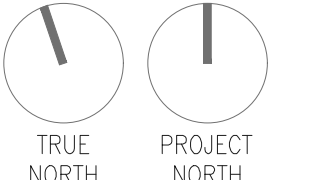
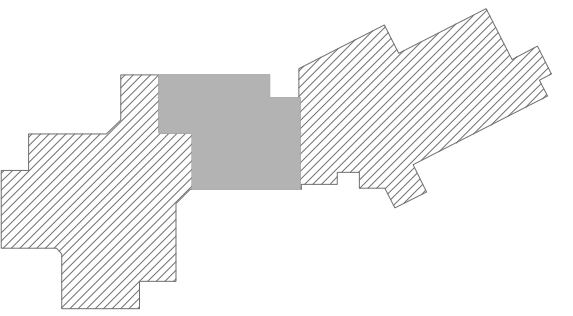
**MOUNTAIN INSTITUTE HEALTH CARE EXPANSION**

Consultant Signature Only  
 Designed by/Concept par: **GP**  
 Drawn by/Dessiné par: **RV**  
 PSPC Project Manager/Administrateur de Projets SPAC: **TONY TANG**  
 Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architectural et de génie, SPAC: **PREETIPAL PAUL**

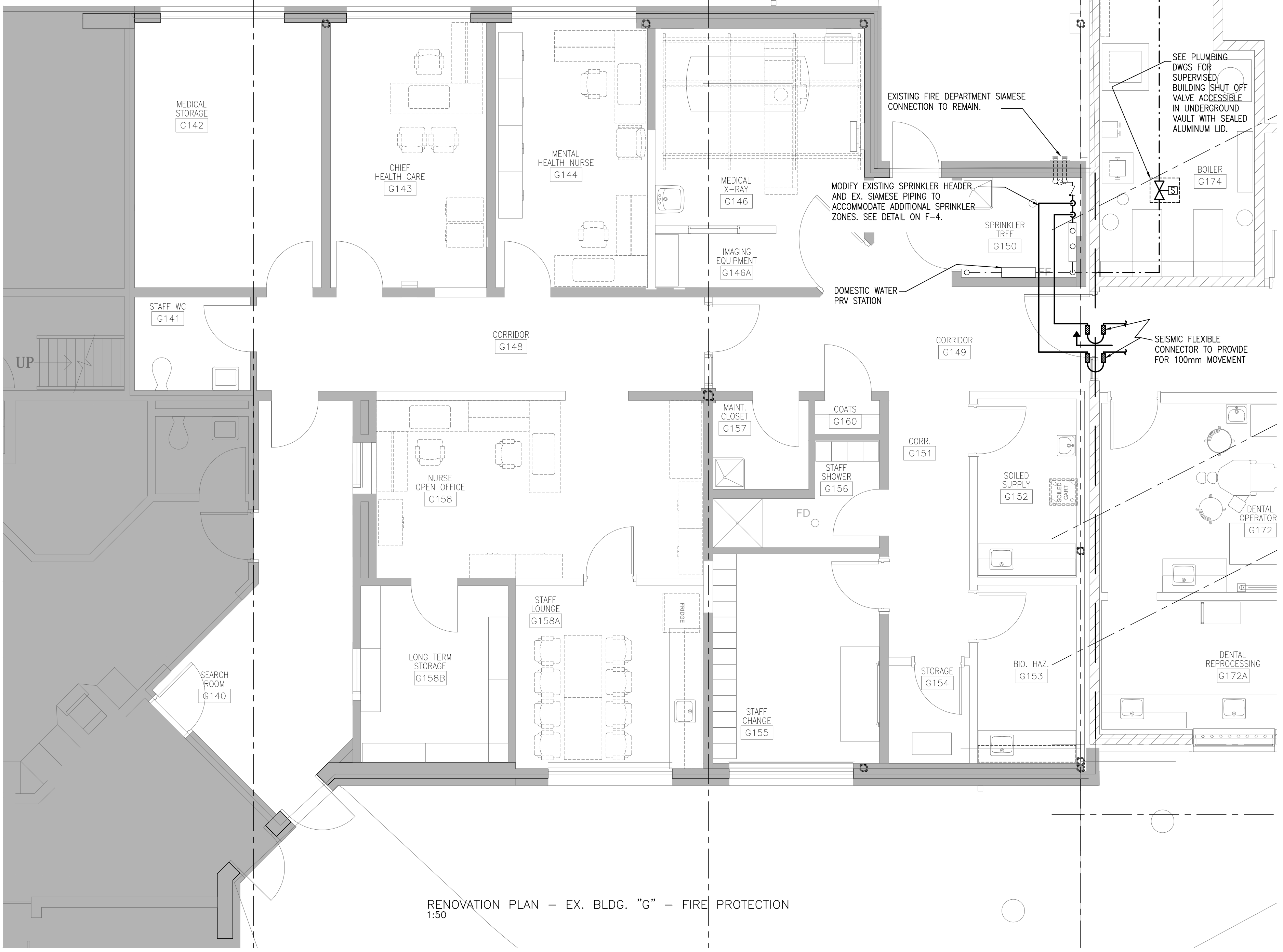
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Project No./No. du projet: **R.077724.001** Sheet/ Feuille: **F-1** of **4** Revision no./La Révision no.





1. CONNECTION OF EX. SPRINKLER SYSTEM TO NEW SPRINKLER PIPING.
2. EX. WET SPRINKLER SYSTEM TO EX. ZONE 1 IN EX. BUILDING.
3. EX. WET SPRINKLER SYSTEM TO EX. ZONE 2 IN EX. BUILDING.
4. EX. LINE TO FIRE DEPT. SIAMESE CONNECTION EXTENDED OFF OF NEW PORTION OF SPRINKLER TREE.
5. EX. CHECK VALVE WITH BALL DRIP RELOCATED.
6. EX. AND NEW TEST AND DRAIN PIPED TO EX. FLOOR DRAIN FOR ALL ZONES.
7. NEW WET SPRINKLER SYSTEM TO NEW MAIN FLOOR ZONE IN NEW ADDITION.
8. EX. COMBINED LINE FROM MAIN. REFER TO SPRINKLER WATER ENTRY FOR CONT.
9. EX. APPROVED DOUBLE DETECTOR CHECK VALVE ASSEMBLY C/W TATTLE TALE METER.
10. NEW WET SPRINKLER SYSTEM TO NEW CRAWLSPACE ZONE IN NEW ADDITION.
11. EX. DOMESTIC COLD WATER SERVICE, REFER TO PLUMBING DRAWINGS FOR CONT.



RENOVATION PLAN - EX. BLDG. "G" - FIRE PROTECTION  
1:50

Revision/Revision	Description/Description	Date/Date
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**AGASSIZ, BRITISH COLUMBIA  
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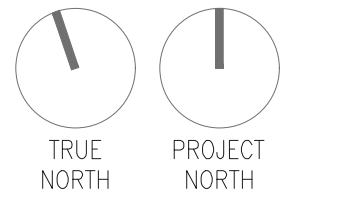
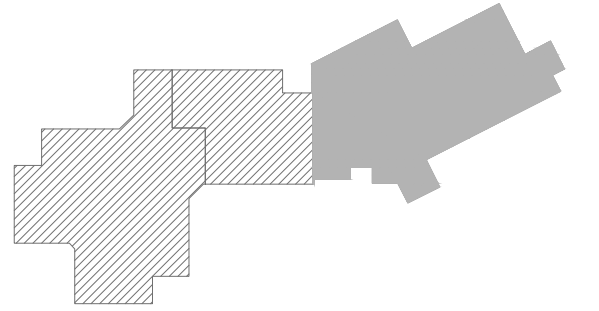
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Drawing title/Titre du dessin  
**RENOVATION  
EXISTING BUILDING  
MAIN FLOOR PLAN  
FIRE PROTECTION**

Project No./No. du projet <b>R.077724.001</b>	Sheet/ Feuille <b>F-2</b> OF <b>4</b>	Revision no./ La Révision no.
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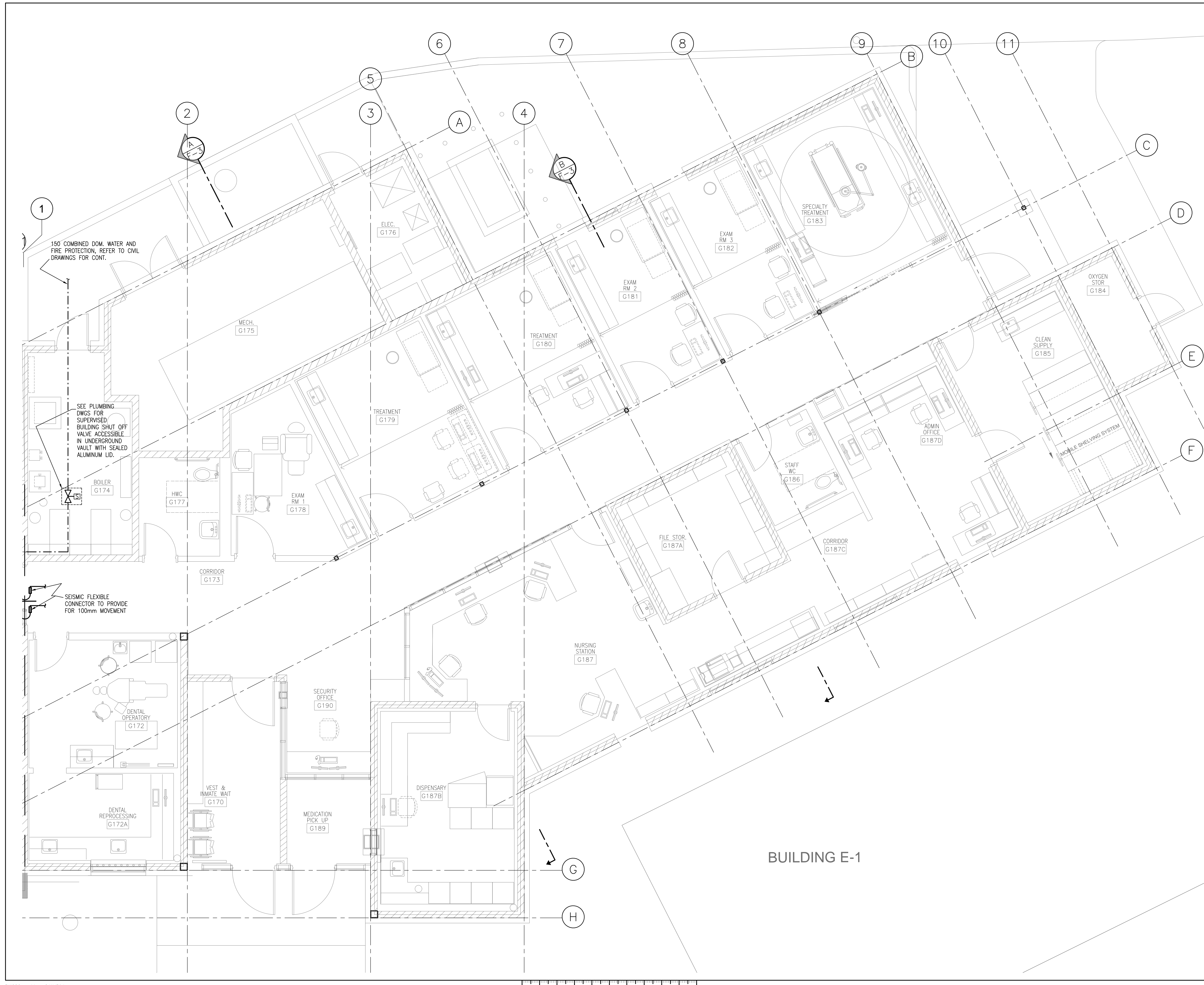
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**ADDITION  
MAIN FLOOR PLAN  
FIRE PROTECTION**

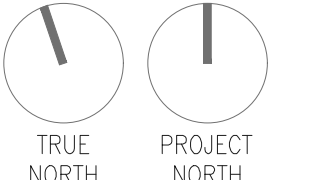
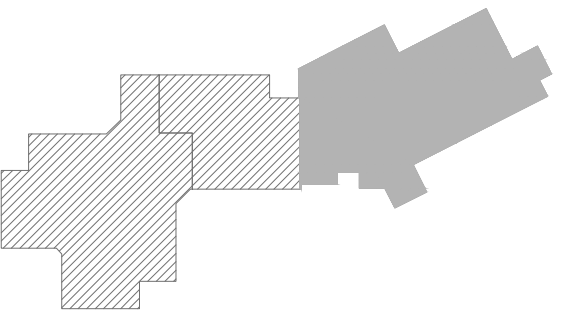
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Sheet/ Feuille  
**F-3**  
OF  
**4**

Revision no./  
La Révision  
no.







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4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

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HEALTH CARE EXPANSION**

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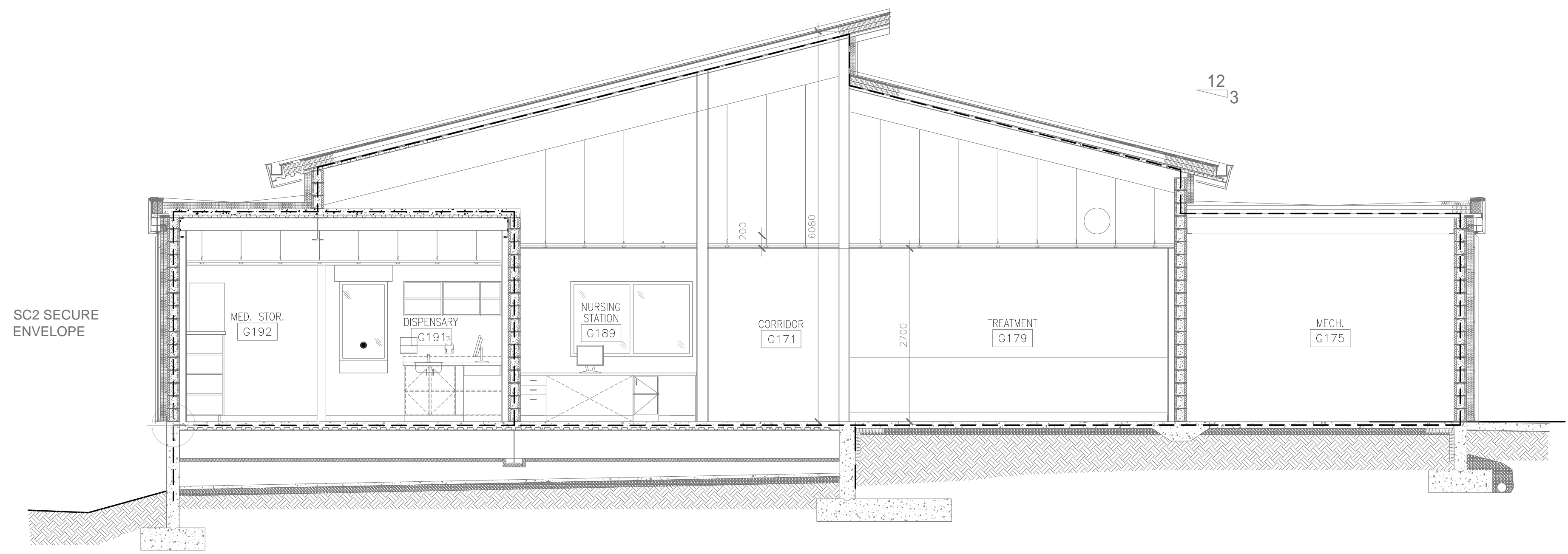
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**SECTIONS  
FIRE PROTECTION**

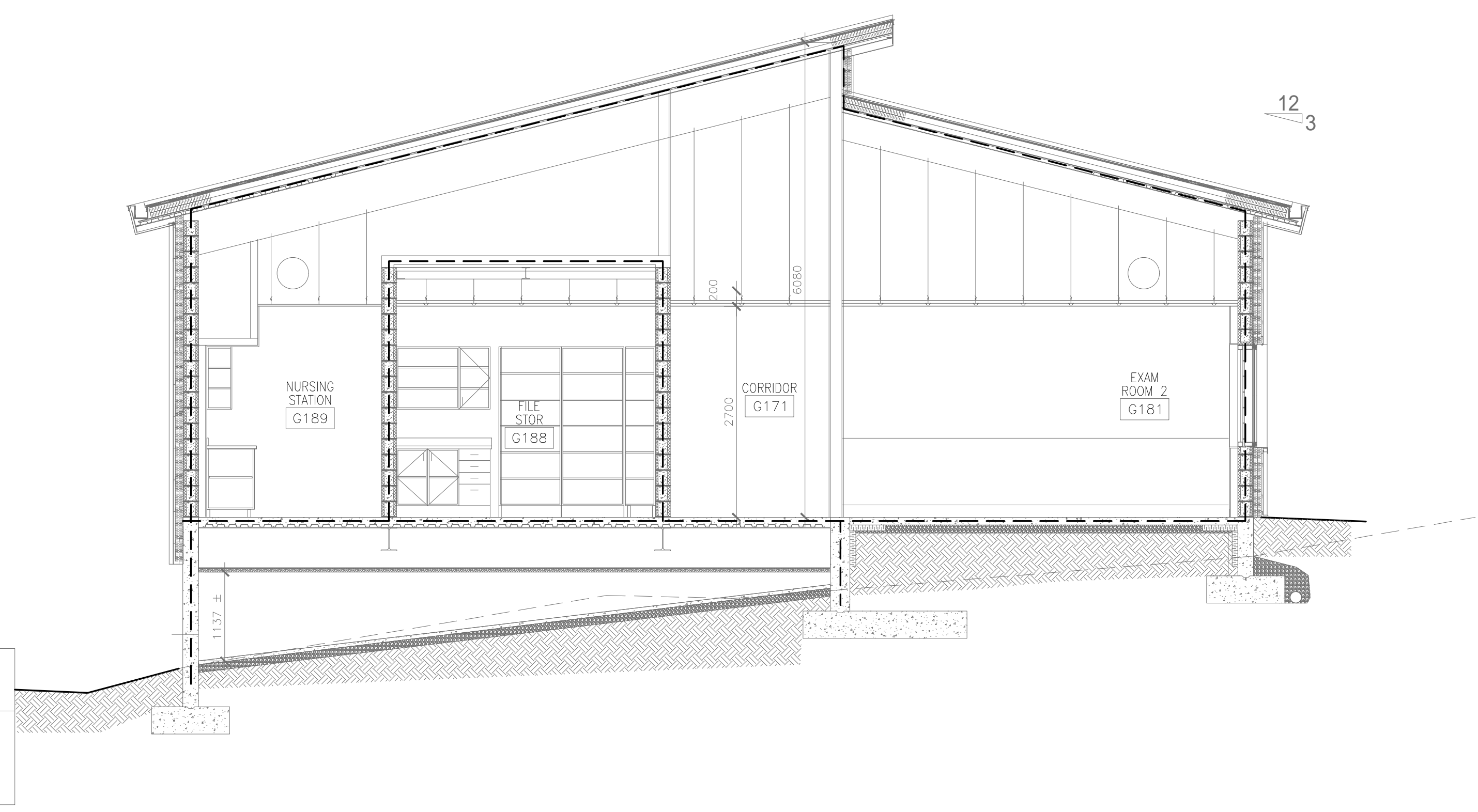
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**R.077724.001**

Sheet / Feuille  
**F-4**

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**OF 4**



SECTION 1:50 **A**  
F-2



SECTION 1:50 **B**  
F-2