

CORRECTIONAL SERVICE CANADA (CSC) MISSION MINIMUM INSTITUTION EXPANSION OF HEALTH CARE

33737 DEWDNEY TRUNK ROAD, MISSION, B.C.



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Legal Description:

EAST HALF OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 17, N.W.D.

Occupancy Type:

Group D (Table 3.1.2.1)
 Building Height: One (1) Storey
 Existing Building Area: 1143.0m²
 (Renovation) 206.3m²
 (Addition) 25.8m²
 (New Canopy Addition) 15.0m²
 Construction Type: Noncombustible
 Sprinklered: Yes

Applicable Codes:

- NBC 2015
 - NFC 2015
 - NFPA 2015

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2	ISSUED FOR 50% SUBMISSION	2018/05/25

Revision/Revision	Description/Description	Date/Date
Client/client		

CORRECTIONAL SERVICE CANADA (CSC)

Project title/Titre du projet
33737 DEWDNEY TRUNK ROAD MISSION, B.C.

MISSION MINIMUM INSTITUTION EXPANSION OF HEALTH CARE

Consultant Signature Only

Designed by/Concept par
KH / SB

Drawn by/Dessiné par
KL

PWGSC Project Manager/Administrateur de Projets TPSGC
CALVIN LU

Regional Manager, Architectural and Engineering Services
 Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
COVER SHEET

PRIME CONSULTANT

Architectural
 DGBK ARCHITECTS

CONSULTANTS

Structural
 CWMM Consulting Engineers Ltd.

Mechanical
 Integral Group

Electrical
 AES Engineering

Geotechnical
 Golder Associates Ltd.

Quantity Surveyor
 Hanscomb Ltd.

Equipment Consultant
 Caroline Webster Consulting

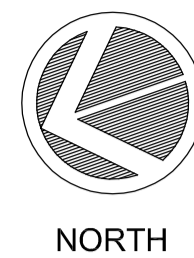
Specifications
 Carl Selden Construction Specifications

PROJECT MANAGER

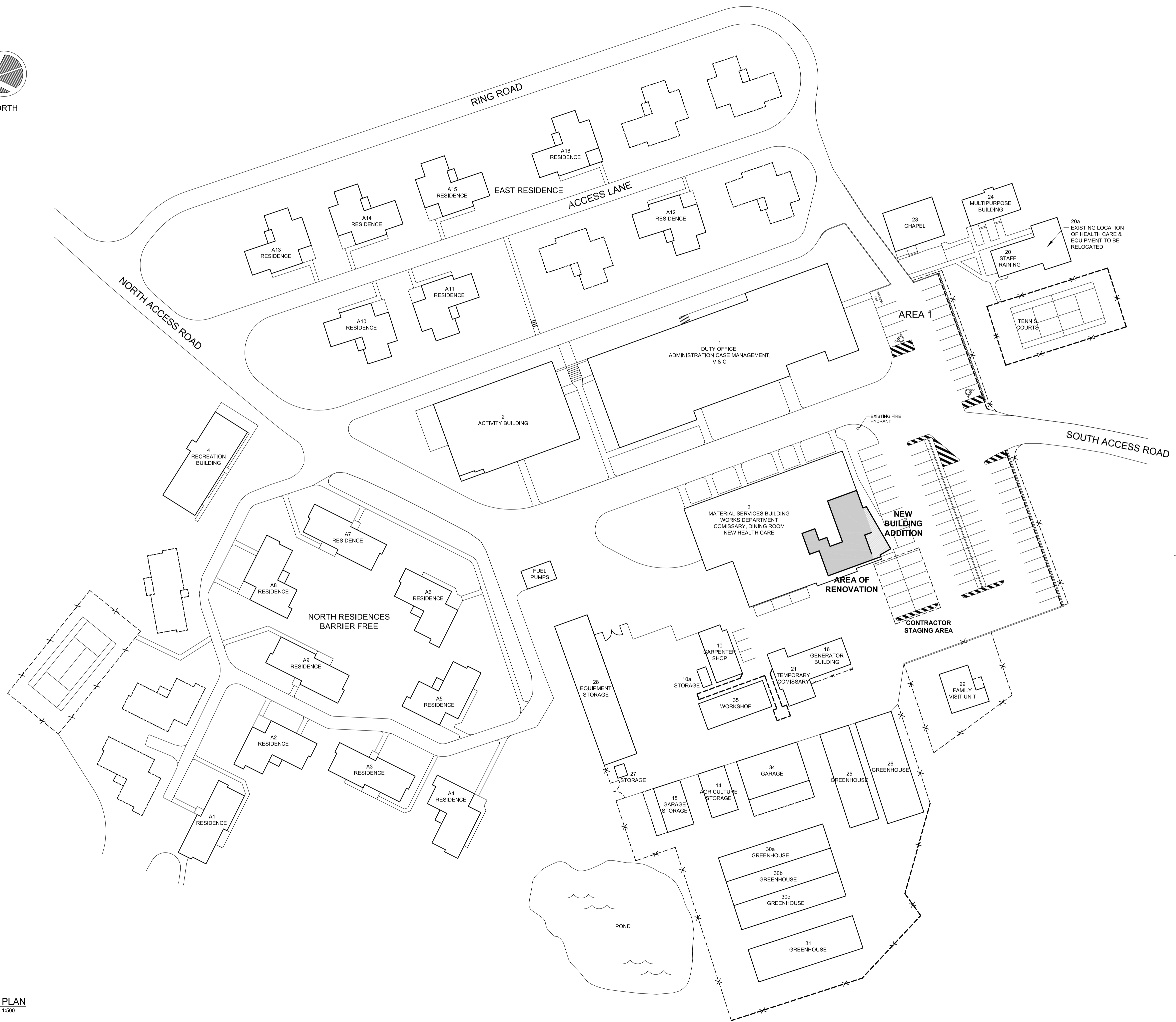
PWGSC
 Public Works and Government Services Canada

Project No./No. du projet R.089145.001	Sheet/Feuille A000	Revision no./La Révision no. 7
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NORTH



AREA OF ADDITION
 AREA OF RENOVATION

Revision/Revision	Description/Description	Date/Date
7	ISSUED FOR TENDER	2021/04/08
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CALVIN LU

Regional Manager, Architectural and Engineering Services
 Gestionnaire régionale, Services d'architecture et de génie, TPSCG
PREETIPAL PAUL

Drawing title/Titre du dessin

SITE PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.089145.001	A101	7

1 SITE PLAN
 SCALE 1:500





DEMOLITION NOTES

- 1 REMOVE WALL UP TO UNDERSIDE OF STEEL BEAM. PATCH & REPAIR WALLS WHERE NEEDED.
- 2 REMOVE WINDOW AND WALL TO FASCIA PANEL. (APPROX. 2000mm HIGH)
- 3 REMOVE DOOR, DOOR FRAME AND SIDELITE. PATCH & REPAIR WALLS WHERE NEEDED.
- 4 REMOVE DOOR, DOOR FRAME, SIDELITE AND WALL.
- 5 REMOVE WALL EXTERIOR FINISH (METAL SIDING, METAL STRAPPING, BUILDING PAPER & PLYWOOD). REMOVE WALL INTERIOR FINISH (GWB, VAPOUR BARRIER & BATT INSULATION). MAINTAIN STRUCTURAL STEEL STUDS.
- 6 REMOVE DOOR, DOOR FRAME AND SIDELITE. REMOVE WALL EXTERIOR FINISH (METAL SIDING, METAL STRAPPING, BUILDING PAPER & PLYWOOD). REMOVE WALL INTERIOR FINISH (GWB, VAPOUR BARRIER & BATT INSULATION). MAINTAIN STRUCTURAL STEEL STUDS.
- 7 REMOVE WALL TO UNDERSIDE OF SOFFIT. COLUMN TO REMAIN.
- 8 REMOVE LOWER & UPPER MILLWORK CABINETS AND SINK. CAP PLUMBING SERVICES.
- 9 REMOVE WASHROOM EQUIPMENT AND ACCESSORIES. CAP PLUMBING SERVICES. PATCH AND REPAIR WALLS.
- 10 TRENCH SLAB AS NEEDED. PATCH AND REPAIR FLOORS WHERE NEEDED.
- 11 REMOVE VINYL FLOORING. PATCH & REPAIR SUBFLOOR WHERE NEEDED.
- 12 REMOVE EXTERIOR SLOPED CONCRETE SLAB. REMOVE SLAB TO ALLOW FOR NEW FLAT SLAB.
- 13 REMOVE A PORTION OF CONCRETE SIDEWALK AND LAWN.
- 14 REMOVE A PORTION OF ASPHALT AND CONCRETE CURB.
- 15 REMOVE WINDOW BLINDS. PATCH AND REPAIR WALLS WHERE NEEDED.
- 16 REMOVE FLOORING AND SLAB AS NEEDED. (SEE MECH. DRAWINGS FOR EXACT LOCATIONS). PATCH AND REPAIR FLOORS WHERE NEEDED.
- 17 REMOVE RUBBER BASE.
- 18 REMOVE VINYL FLOORING. SLAB AS NEEDED. (SEE MECH. DRAWINGS FOR EXACT LOCATIONS). PATCH AND REPAIR FLOORS WHERE NEEDED.

GENERAL DEMOLITION NOTES

- REMOVE EXISTING MECHANICAL AND ELECTRICAL ITEMS AS REQUIRED IN MECHANICAL & ELECTRICAL DOCUMENTS.

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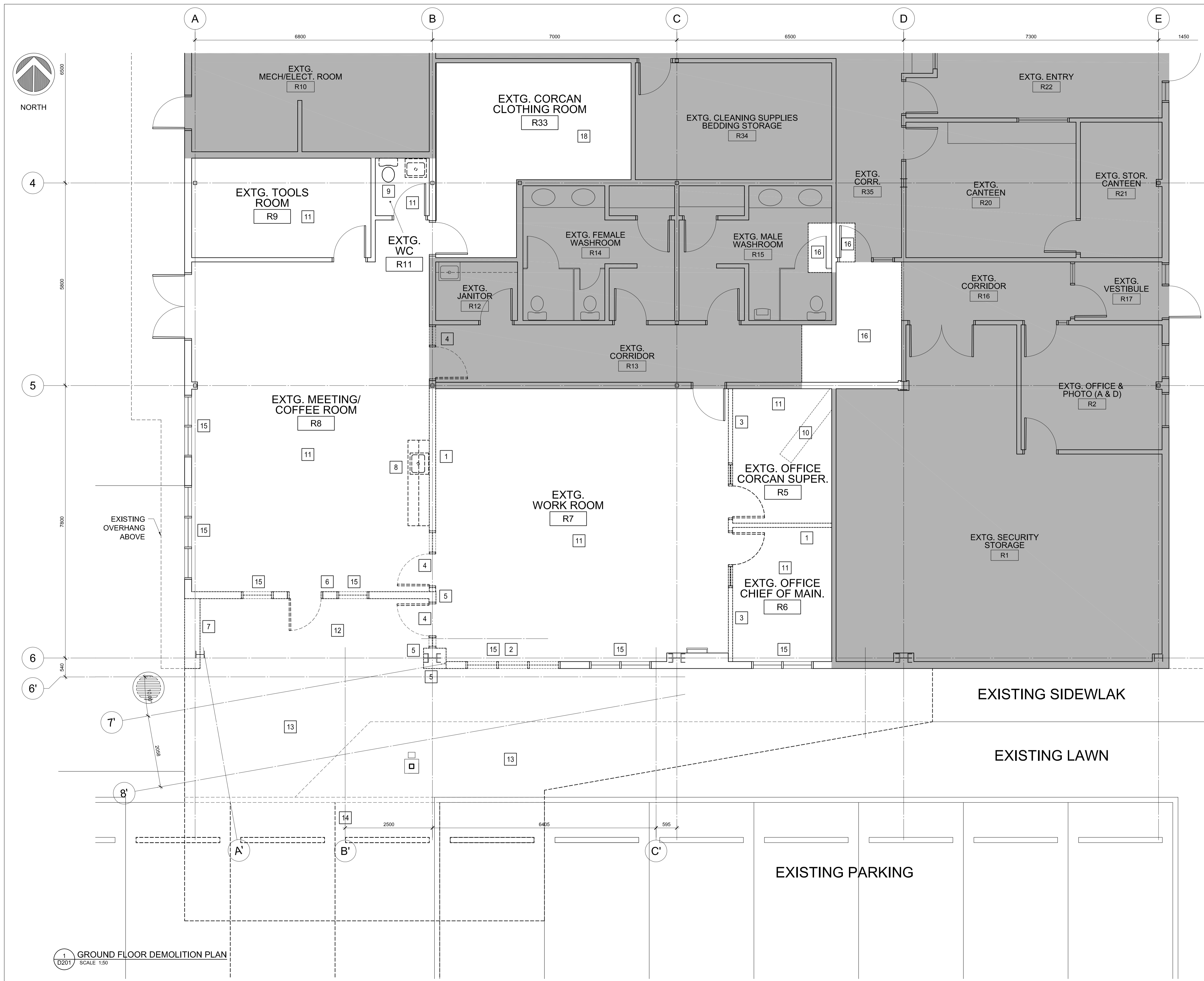
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KH / SB
Drawn by/Dessine par
PWSC Project Manager/Administrateur de Projets TPSGC
CALVIN LU
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
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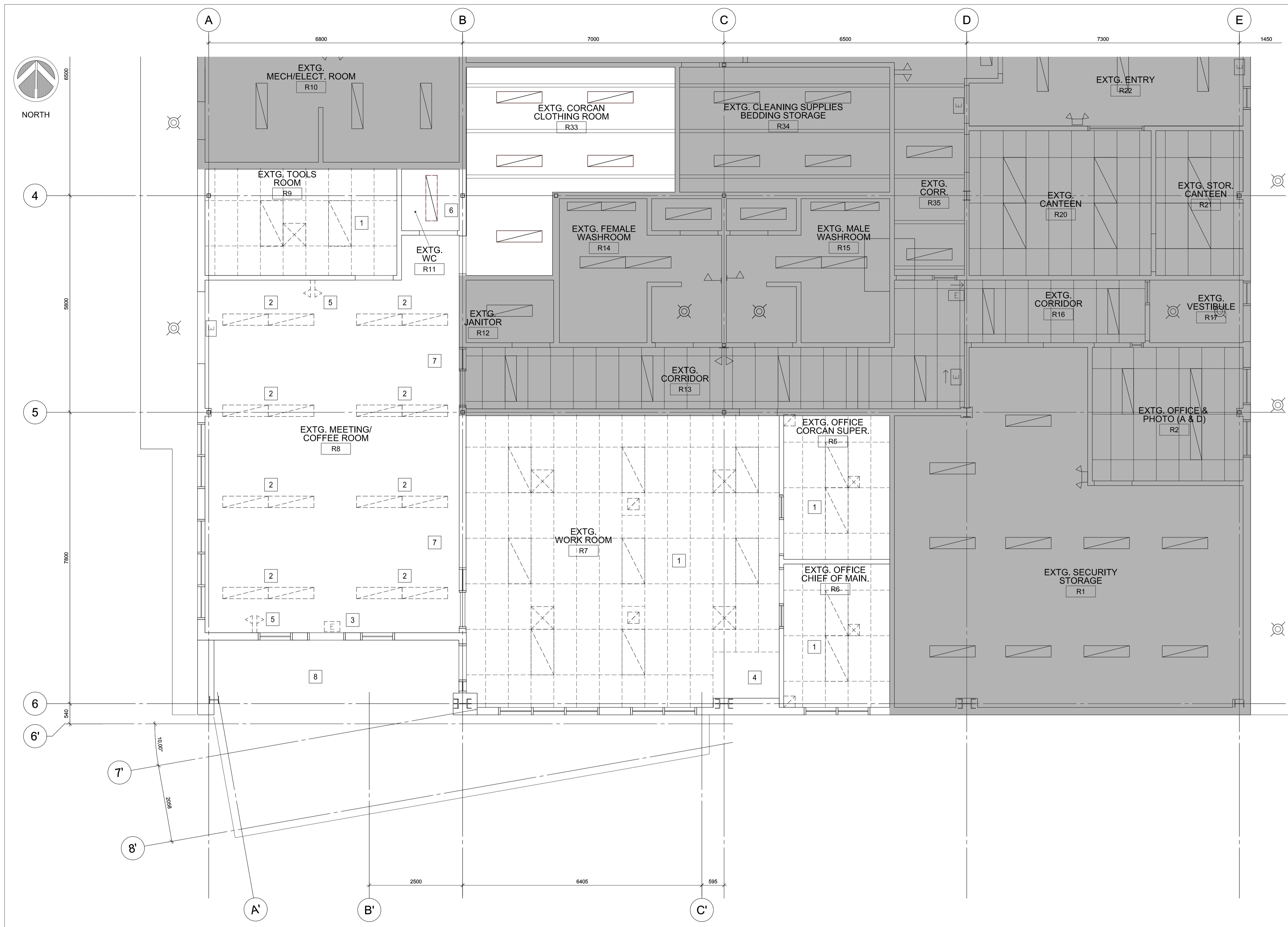
DEMOLITION PLAN
GROUND FLOOR

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1 D201 GROUND FLOOR DEMOLITION PLAN
SCALE 1:50





CEILING DEMOLITION NOTES

- 1 REMOVE LIGHTING, MECHANICAL AND T-BAR CEILING. PATCH & REPAIR WALLS & CEILINGS WHERE NEEDED.
- 2 REMOVE LIGHTING. PATCH & REPAIR CEILING WHERE NEEDED.
- 3 REMOVE EXIT LIGHTING. PATCH & REPAIR CEILING WHERE NEEDED.
- 4 MAINTAIN GWB WALL AND CEILING AROUND ROOF HATCH OPENING.
- 5 REMOVE EMERGENCY LIGHTS. PATCH & REPAIR WALLS WHERE NEEDED.
- 6 REMOVE LIGHT AND GWB CEILING. PATCH & REPAIR WALLS WHERE NEEDED.
- 7 REMOVE BULKHEAD. PATCH & REPAIR WALLS WHERE NEEDED.
- 8 REMOVE METAL CLADDING SOFFIT. PATCH & REPAIR WALLS WHERE NEEDED.

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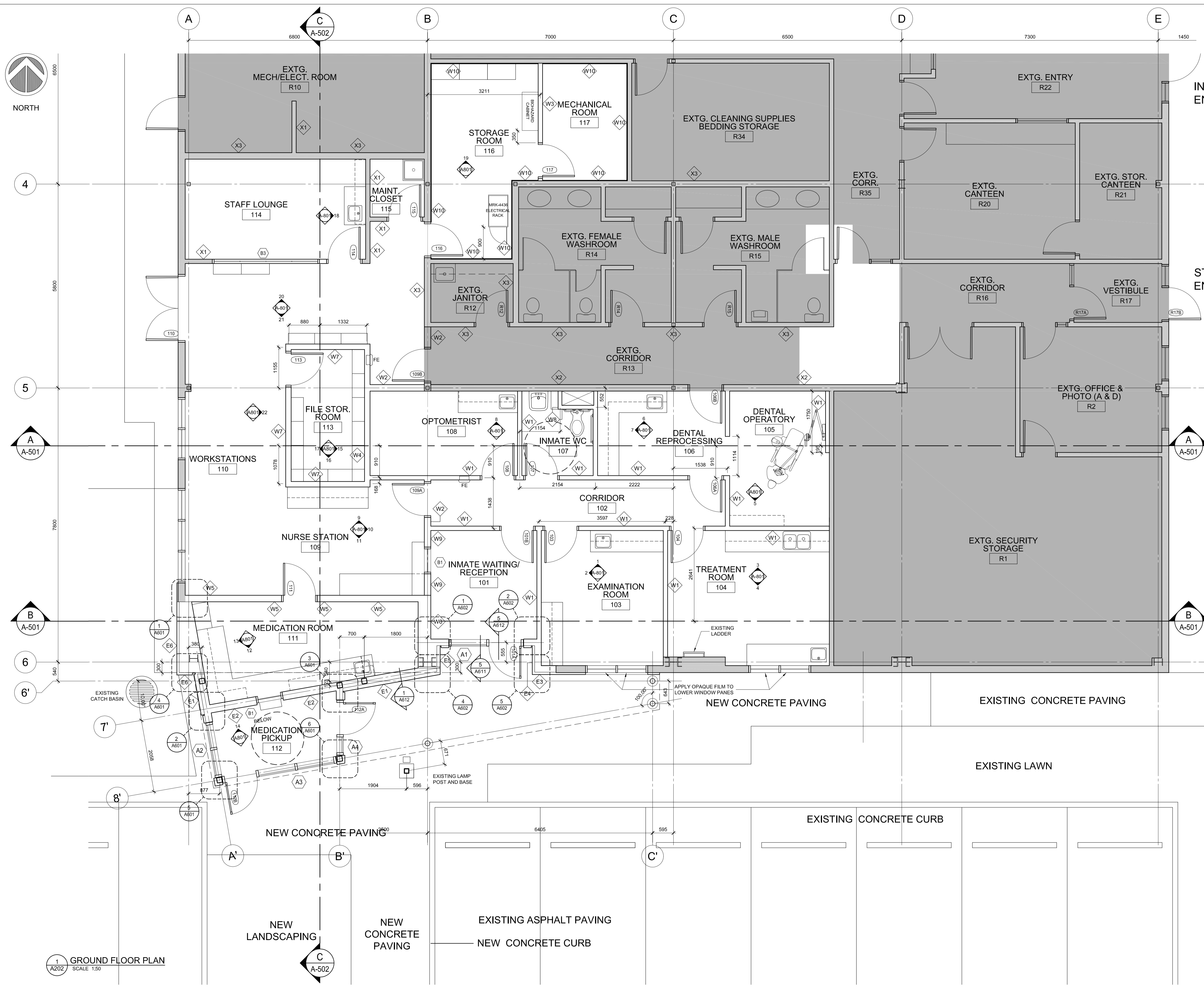
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DEMOLITION REFLECTED CEILING PLAN

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1 DEMOLITION REFLECTED CEILING PLAN
 SCALE 1:50





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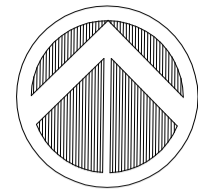
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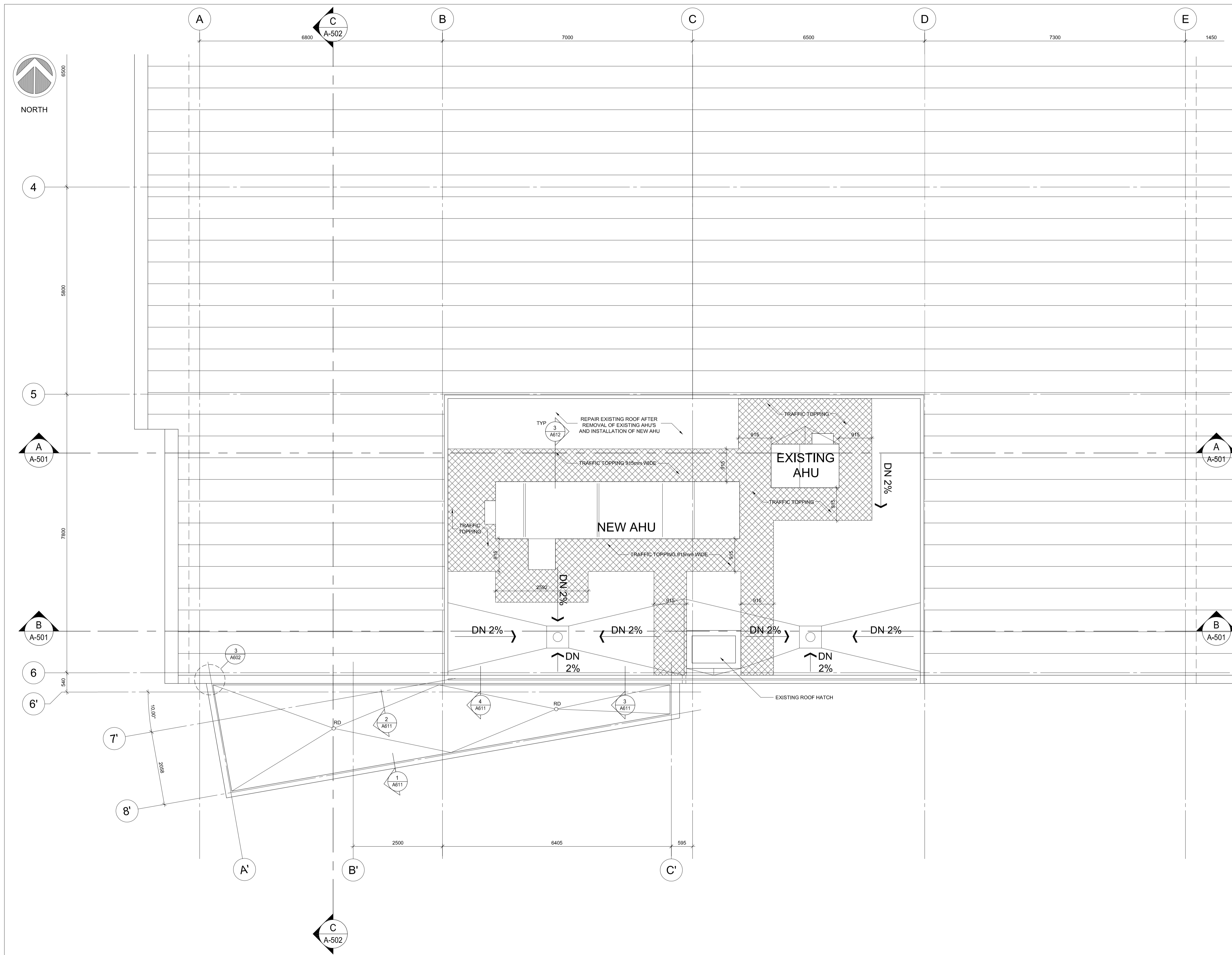
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GROUND FLOOR PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
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NORTH



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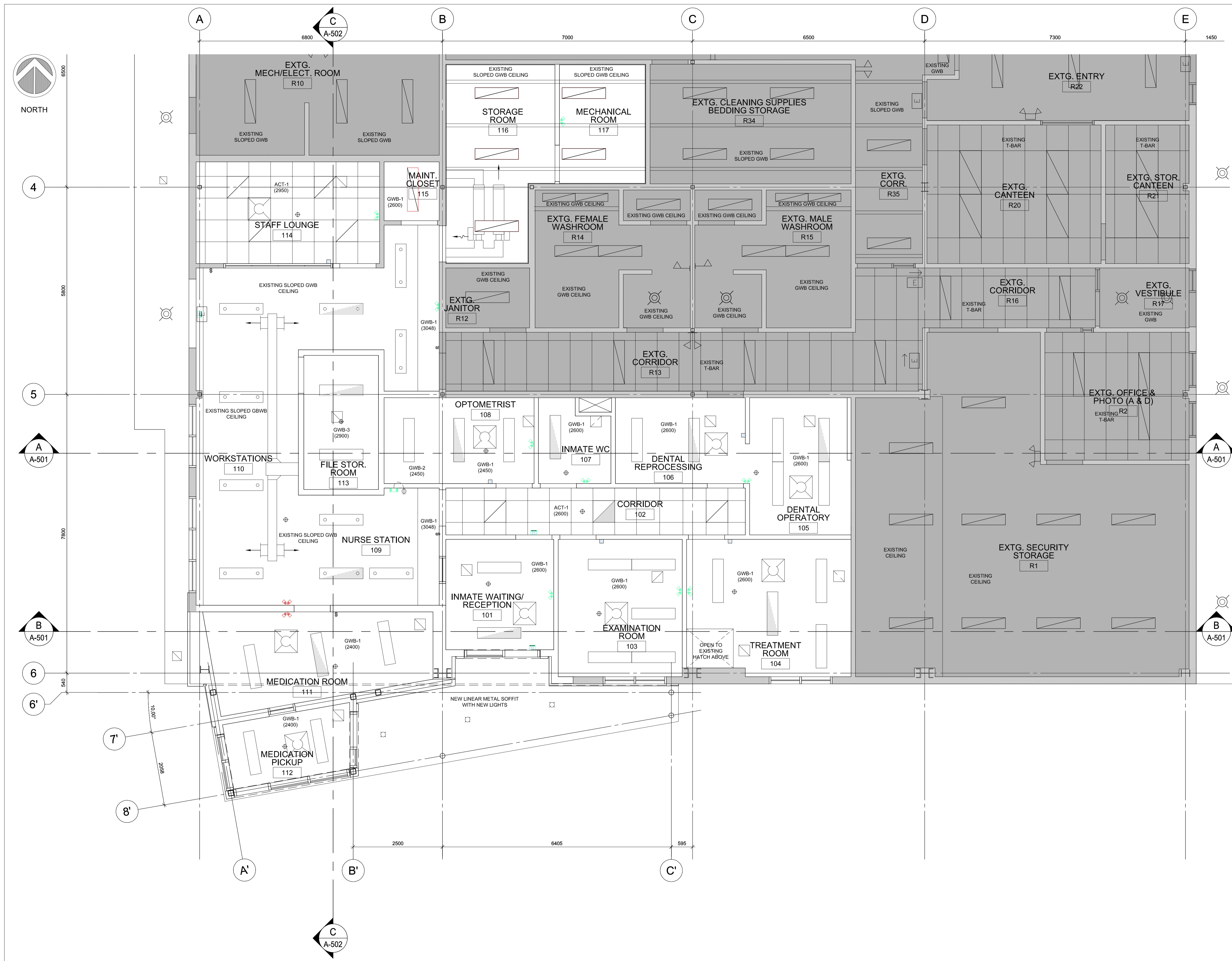
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ROOF PLAN

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1 ROOF PLAN
A203 SCALE 1:50





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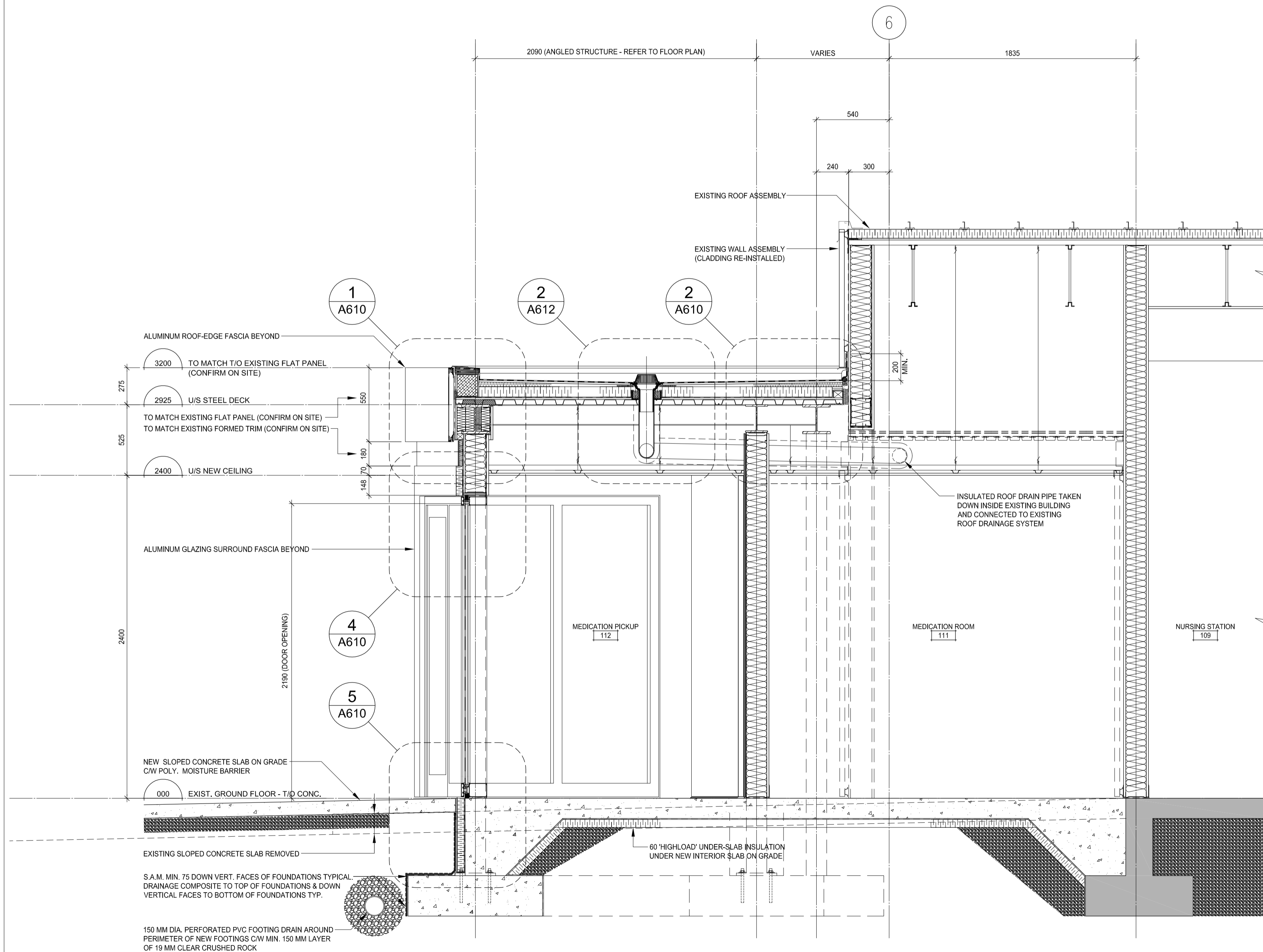
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GROUND FLOOR REFLECTED CEILING PLAN

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2 A202 GROUND FLOOR REFLECTED CEILING PLAN SCALE 1:200





1 WALL SECTION - THROUGH MEDICATION PICKUP
A-502 SCALE 1=20

Revision/	Description/Description	Date/Date
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**CORRECTIONAL
SERVICE CANADA (CSC)**

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MISSION, B.C.**

**MISSION MINIMUM
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CALVIN LU

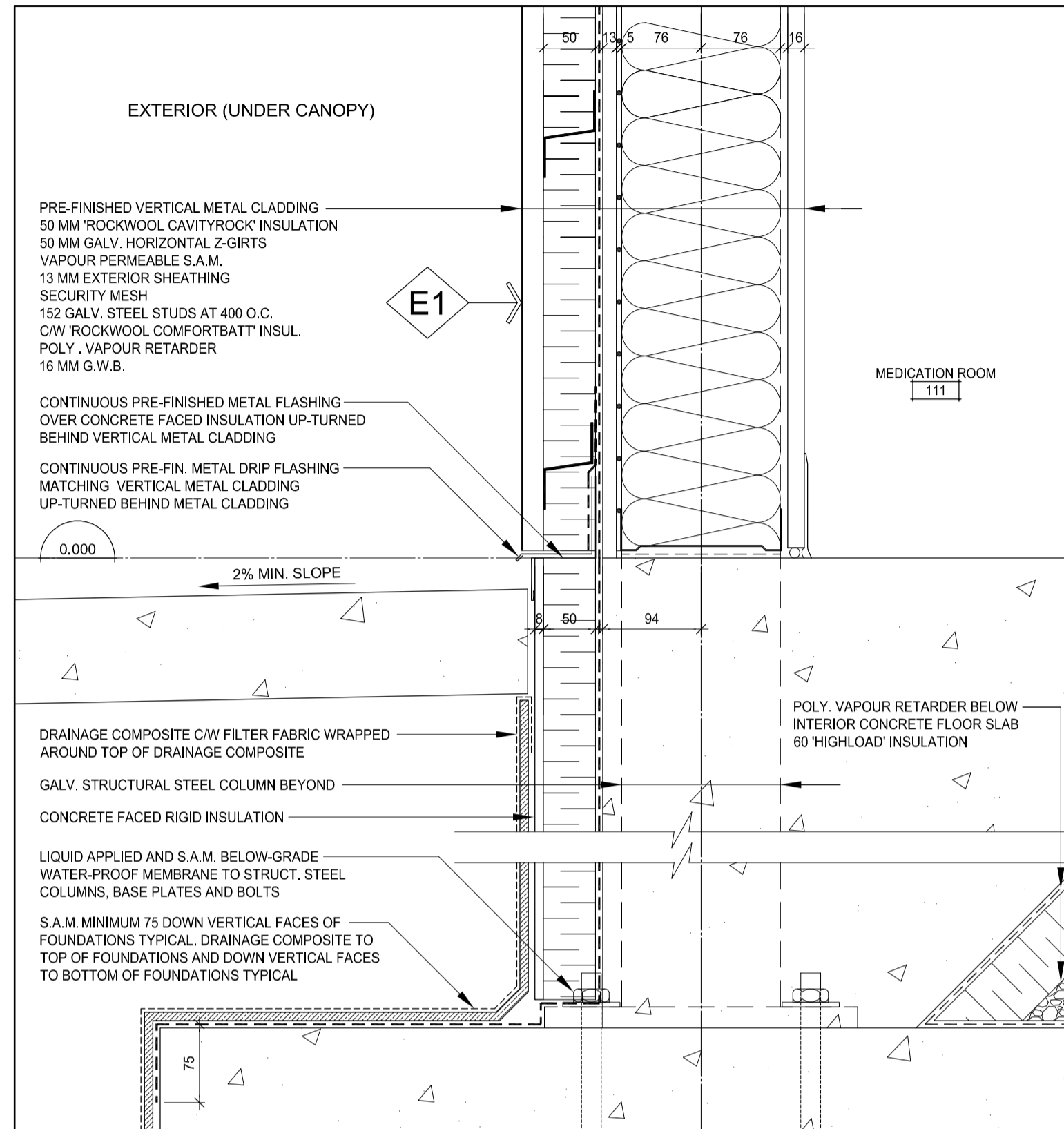
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Gestionnaire régionale, Services d'architectural et de génie, TPSPG
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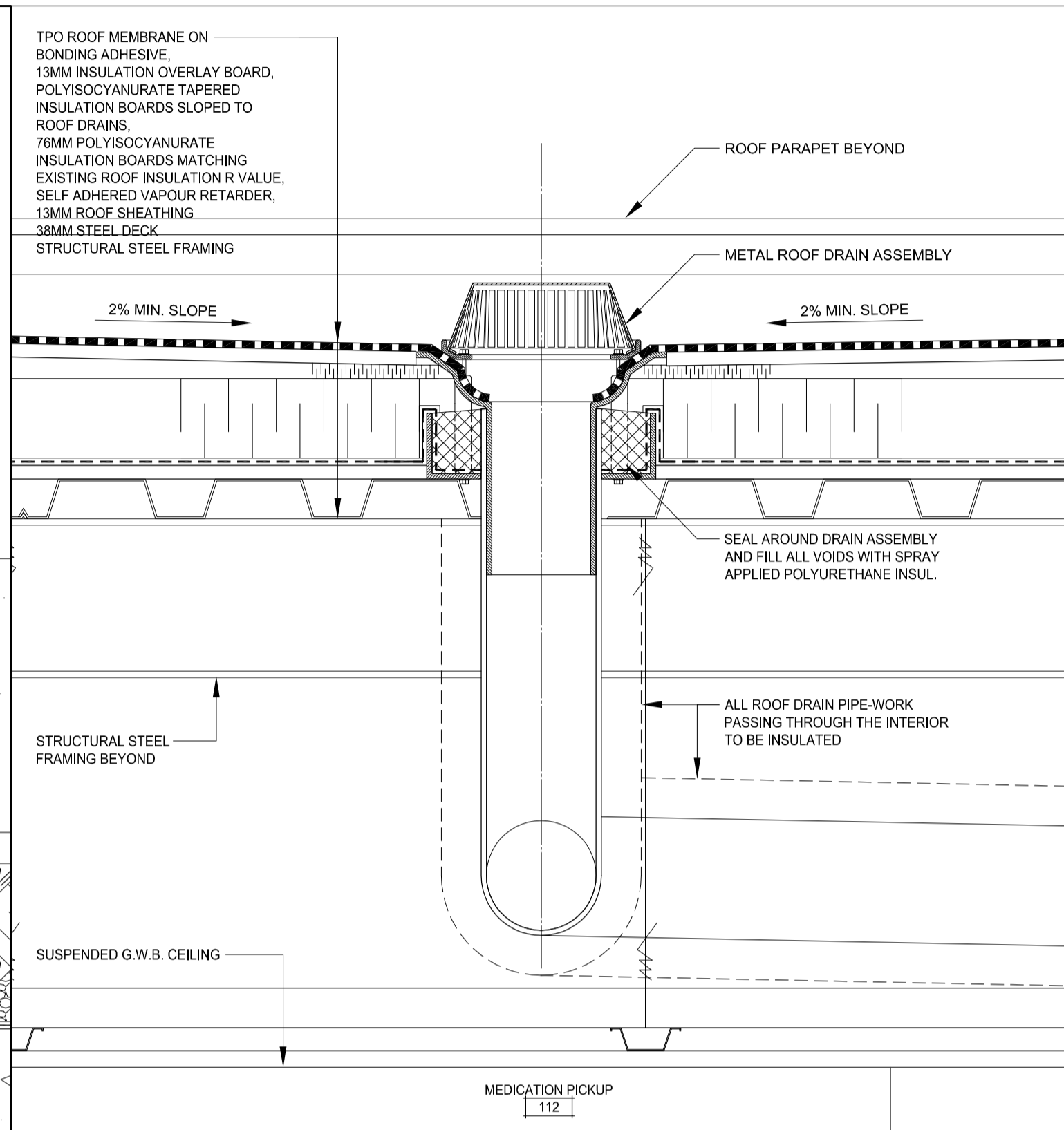
WALL SECTIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.089145.001	A503	7

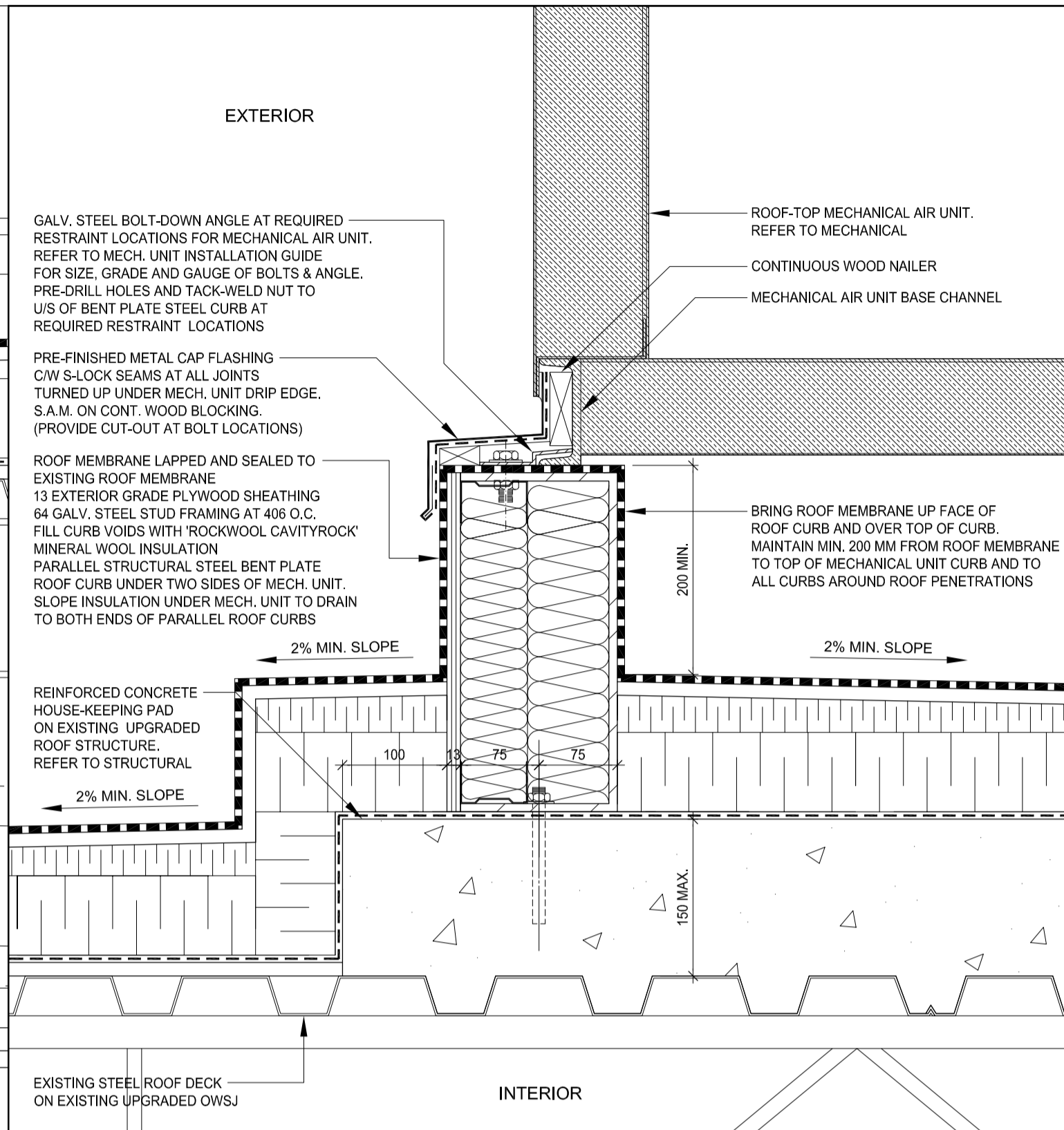




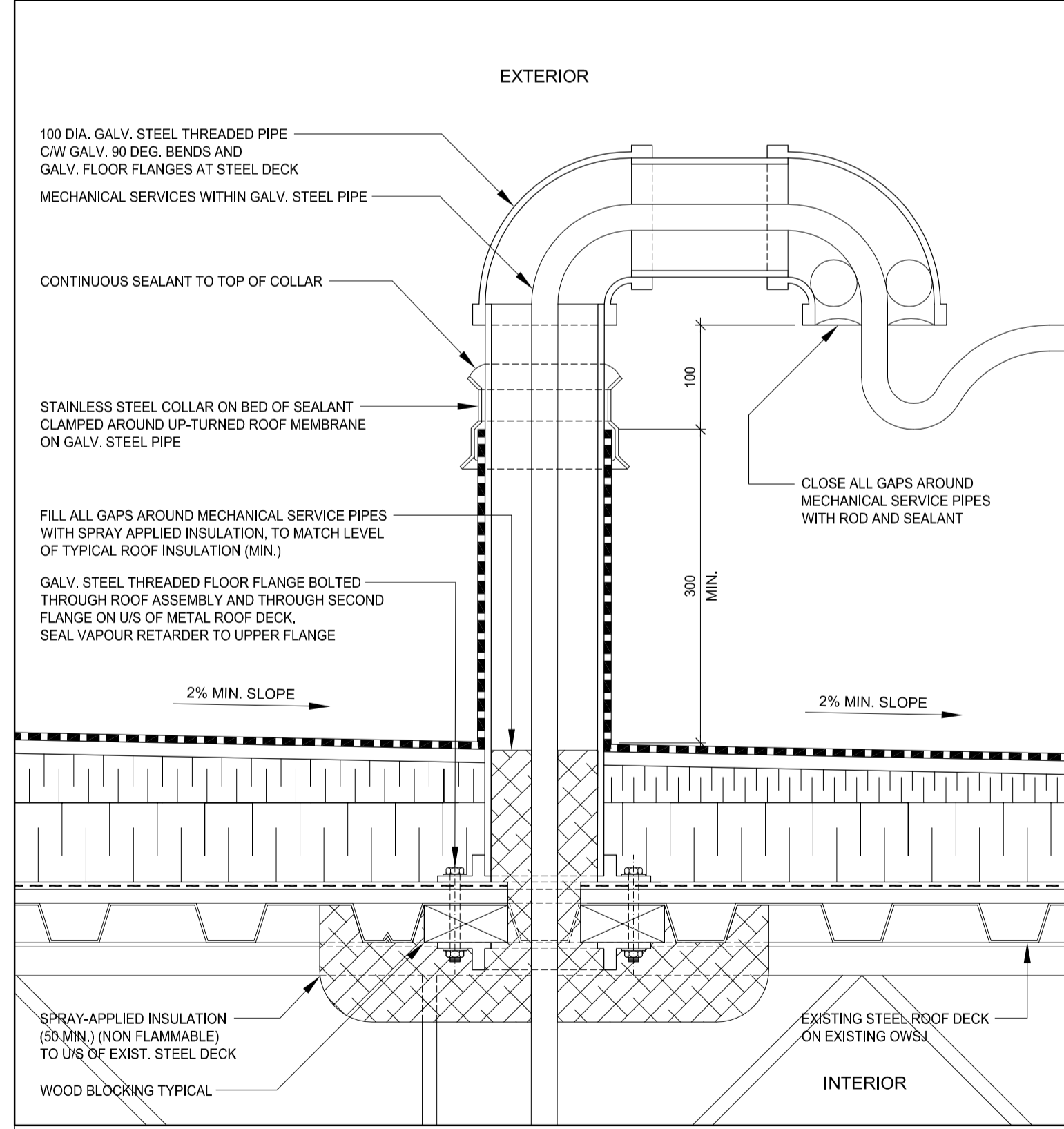
1 SECTION DETAIL - BASE OF NEW WALL UNDER CANOPY
SCALE 1:5



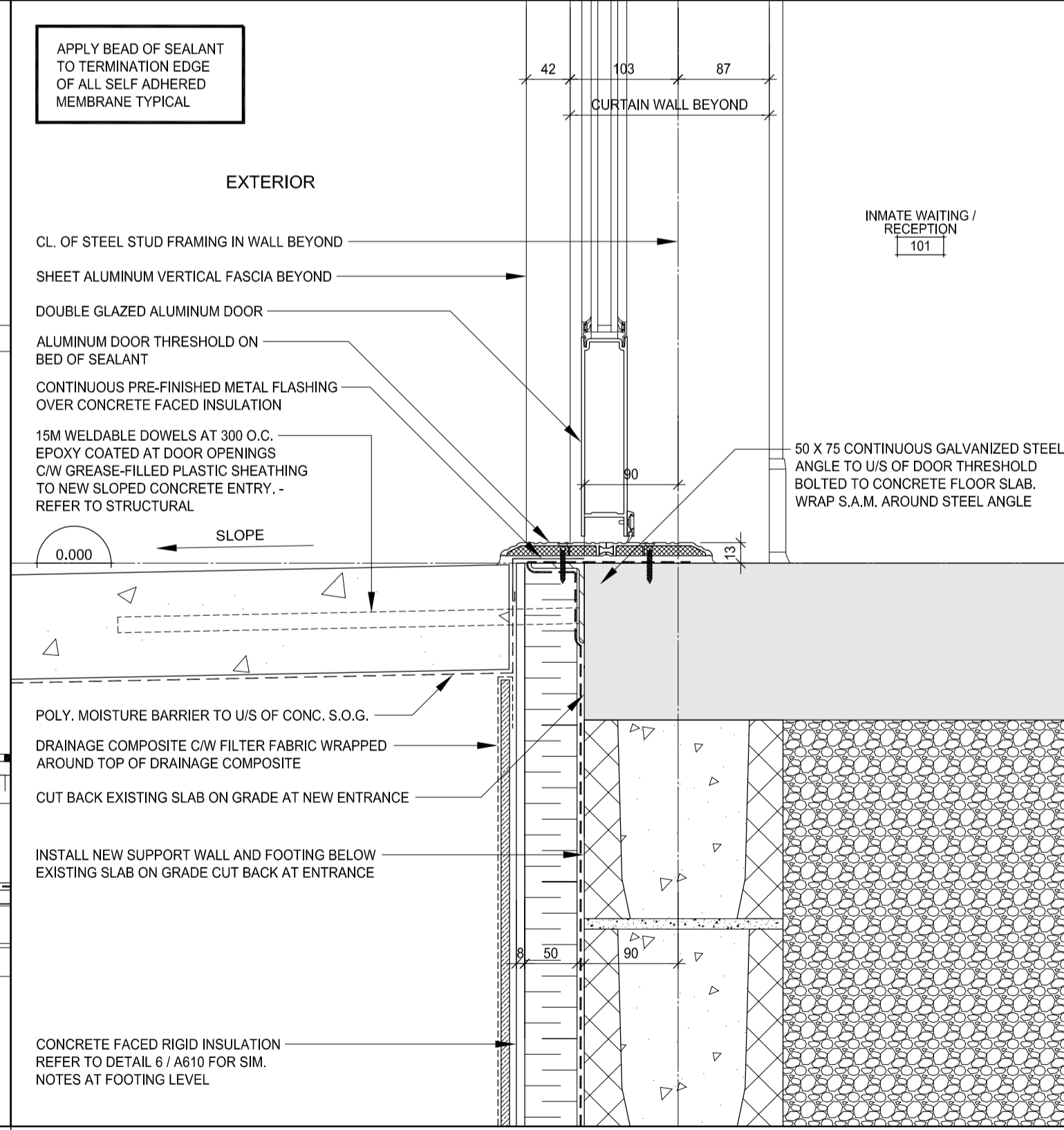
2 SECTION DETAIL - ROOF DRAIN ABOVE MEDICATION PICKUP
SCALE 1:5



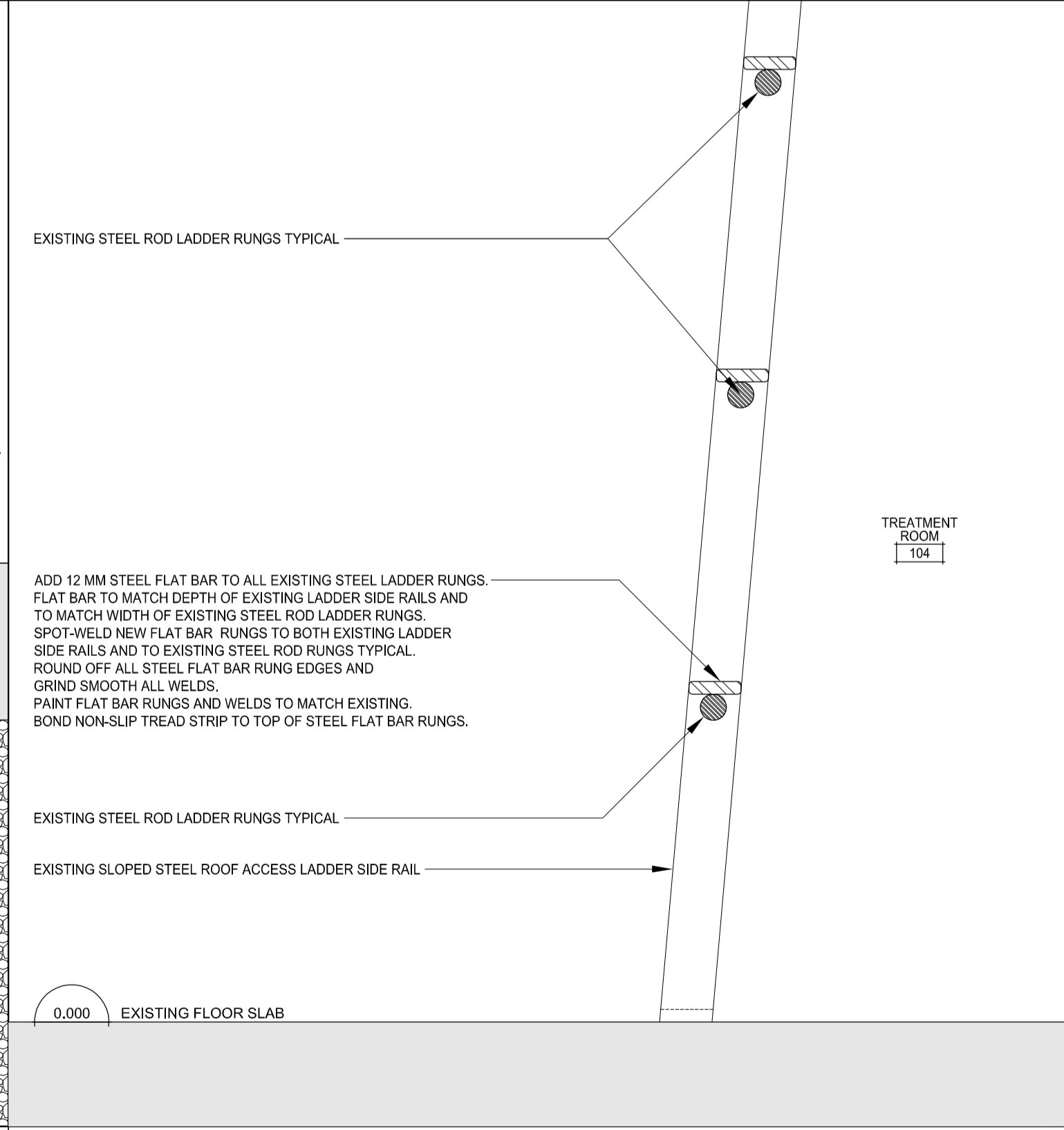
3 SECTION DETAIL - ROOF CURB AT MECHANICAL ROOF-TOP AIR UNIT
SCALE 1:5



4 SECTION DETAIL - TYPICAL ROOF-TOP PIPE OR CABLE PENETRATION
SCALE 1:5



5 SECTION DETAIL - NEW DOOR THRESHOLD AT EXISTING SLAB ON GRADE
SCALE 1:5



6 SECTION DETAIL - MODIFIED EXISTING INTERIOR ROOF ACCESS LADDER
SCALE 1:5

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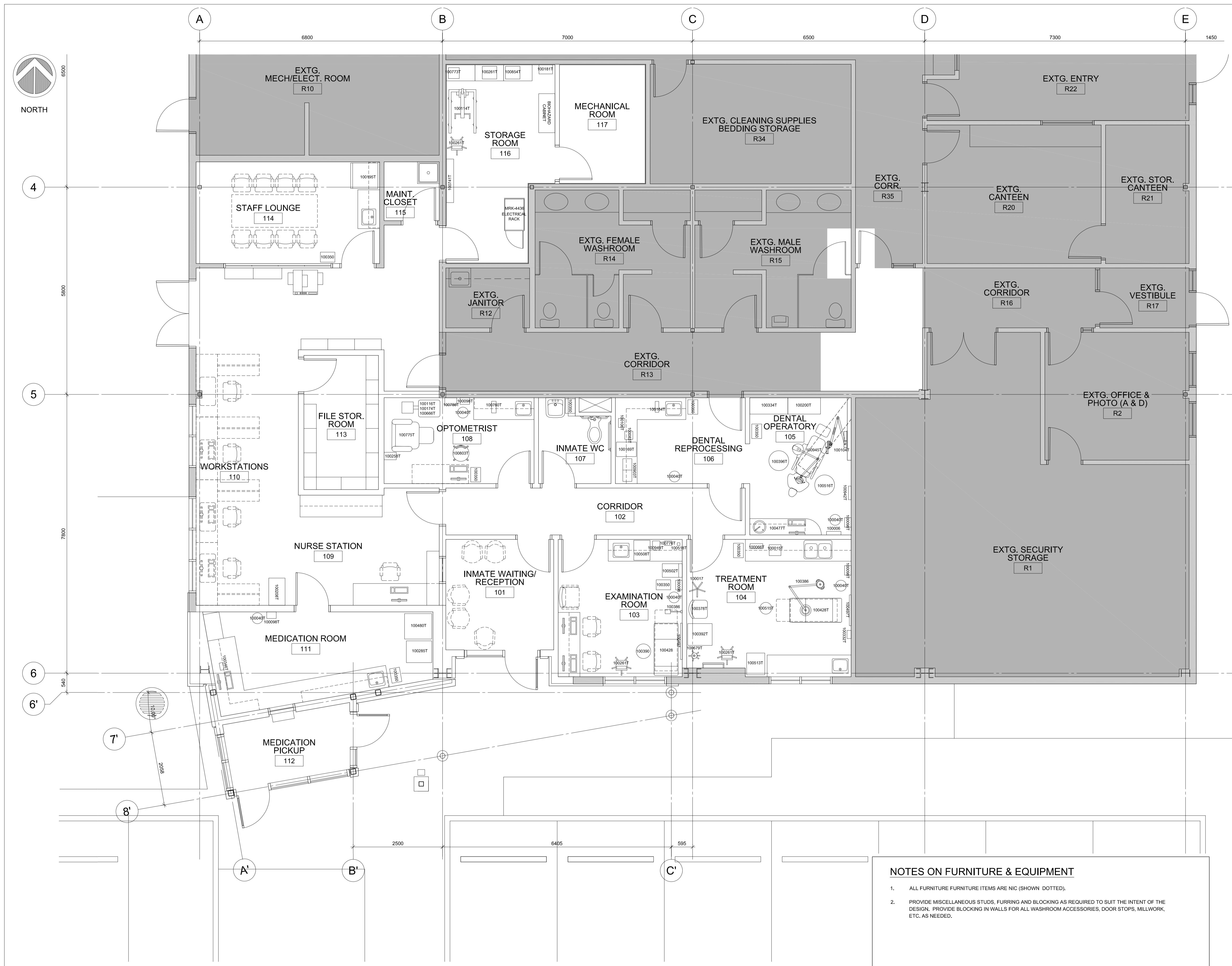
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CALVIN LU
Regional Manager, Architectural and Engineering Services
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EXTERIOR SECTION DETAILS SHEET 3

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
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FURNITURE AND EQUIPMENT LAYOUT FLOOR PLAN

Project No./No. du projet
R.089145.001

Sheet/Feuille
A901

Revision no./La Révision no.
7

NOTES ON FURNITURE & EQUIPMENT

- ALL FURNITURE FURNITURE ITEMS ARE NIC (SHOWN DOTTED).
- PROVIDE MISCELLANEOUS STUDS, FURRING AND BLOCKING AS REQUIRED TO SUIT THE INTENT OF THE DESIGN. PROVIDE BLOCKING IN WALLS FOR ALL WASHROOM ACCESSORIES, DOOR STOPS, MILLWORK, ETC. AS NEEDED.

1
A901 GROUND FLOOR PLAN - FURNITURE AND EQUIPMENT LAYOUT
SCALE 1:50



NECK SIZE	FACE DIMENSION (FOR DRYWALL CEILING)		AIRFLOW RANGE		THROW @ 150-100-50 FPM [0.76-0.51-0.25 m/s]		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 10⁻¹² WATTS AND ONE DIFFUSER.
- DIFFUSERS SHALL BE ANTI LIGATURE AND VANDAL RESISTANT.

NECK SIZE	AIRFLOW RANGE		MAX. NC	
	CFM	L/S		
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

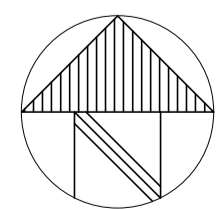
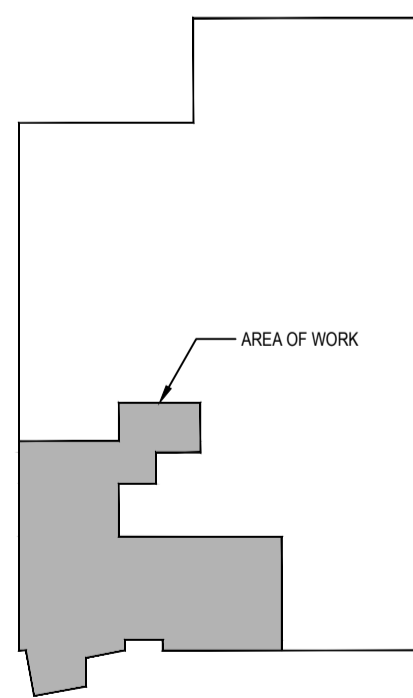
NOTES:

- 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 10⁻¹² WATTS, TESTED WITHOUT DAMPER.
- GRILLES AND REGISTERS SHALL BE ANTI LIGATURE AND VANDAL RESISTANT.

NECK SIZE	AIRFLOW RANGE		
	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.



KEY PLAN
N.T.S.

	EXISTING DUCTWORK		EXISTING THERMOSTAT TO BE REMOVED
	EXISTING FLEXIBLE DUCTWORK		EXISTING THERMOSTAT TO REMAIN OR BE RELOCATED AS SHOWN
	DUCTWORK		EXISTING THERMOSTAT TO BE REPLACED WITH DDC TEMPERATURE SENSOR
	FLEXIBLE DUCTWORK		THERMOSTAT/SENSOR
	DUCTWORK CW 25mm ACOUSTIC INSULATION & PERFORATED METAL LINING		HUMIDISTAT
	DUCTWORK CW 50mm ACOUSTIC INSULATION & PERFORATED METAL LINING		AIR FLOW SENSOR
	FIRE DAMPER IN VERTICAL SEPARATION		PRESSURE SENSOR
	FIRE DAMPER IN HORIZONTAL SEPARATION		CARBON DIOXIDE SENSOR
	BACKDRAFT DAMPER		MOTORIZED DAMPER (2 POSITION - OPEN/CLOSE)
	EXISTING DOOR GRILLE		POINT OF CONNECTION
	DOOR GRILLE (SIZE AS SCHEDULED)		POINT OF DISCONNECTION
	EQUIPMENT TAG		EXISTING TO BE DEMOLISHED
	EXISTING GRILLE, DIFFUSER OR REGISTER		
	AIR DISTRIBUTION TAG		

1.	"STRUCTURAL QUALITY STEEL" BARS NOT LESS THAN 12 mm DIAMETER ON 137 mm CENTERS (2 BARS OF RADIUS 6 mm PLUS A 125 mm GAP = 137 mm), EXCEPT THAT WHERE THE OPENING IS BETWEEN AN INMATE AREA AND A SECURITY CORRIDOR THE BARS SHALL BE OF "TOOL RESISTANT HOMOGENOUS STEEL".
2.	MAXIMUM BAR LENGTH WITHOUT CROSS BARS NOT TO EXCEED 610 mm AND ALL BARS SHALL BE WELDED TOGETHER WHERE THEY INTERSECT.
3.	BARS TO BE WELDED TO A FLAT STEEL FRAME SECURED TO MASONRY/CONCRETE. ACCEPTABLE METHOD: BOLTS SET A MINIMUM OF 50 mm INTO EXPANSION SHIELDS. BOLT SPACING NOT EXCEEDING 400 mm ON CENTERS. NO LESS THAN 4 BOLTS PER GRILLE.
4.	"STRUCTURAL QUALITY STEEL" (MILD STEEL) ARE STEEL RODS, FLATS AND SHAPES, INCLUDING TUBING, CONFORMING TO CAN/CSA G40.20-04/G40.21-04 (R2009) - GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL/STRUCTURAL QUALITY STEEL, GRADE 300W OR TO ASTM A36/A36M-08 - STANDARD SPECIFICATION FOR CARBON STRUCTURAL STEEL. A SUB-GROUP, HOLLOW STRUCTURAL SECTION (HSS) STEEL TUBING IS TYPICALLY USED FOR WINDOW BARS AS IT PROVIDES NOT ONLY STRUCTURAL STIFFNESS (SQUARE HSS IS EFFICIENT FOR MULTIPLE-AXIS LOADING) BUT ALSO A HOLLOW INTERIOR FOR INSERTING A BAR OF TOOL RESISTANT HOMOGENOUS STEEL OR COMPOSITE ROD SAW RESISTANT STEEL AS SPECIFIED.
5.	"TOOL RESISTANT HOMOGENOUS AND COMPOSITE STEEL" IS GRADE 3 HOMOGENOUS OR COMPOSITE TOOL-RESISTING STEEL AS DESCRIBED IN ASTM A627-03. TOOL RESISTANT STEEL IS MILD STEEL WHICH HAD BEEN SUBJECTED TO HAVING ITS TOTAL SURFACE HEAT TEMPERED TO ACHIEVE A GREATER RESISTANCE TO CUTTING BY APPROXIMATELY 6X OVER THAT OF MILD STEEL. INSERTS OF TUNGSTEN CARBIDE IN MILD STEEL SURFACE FORM A COMPOSITE STEEL WHICH RENDER IT ROD SAW RESISTANT INCREASING ITS CUTTING RESISTANCE BY APPROXIMATELY 72X OVER THAT OF MILD STEEL. BOTH STEELS HAVE EQUAL RESISTANCE TO IMPACT AND BENDING AS THE MILD STEEL CORE IS LEFT UNCHANGED. TEMPERING OR HARDENING SERVES TO RENDER THE MILD STEEL MORE BRITTLE. ONCE HARDENED STEEL IS WELDED, THE WELDED ARE LOSSES ITS RESISTANCE TO CUTTING.
6.	A DUCT PENETRATING A SECURE WALL, FLOOR OR CEILING (SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS) SHALL BE PROVIDED WITH SECURITY GRID IF THE DUCT HAS A MINIMUM DIMENSION LARGER THAN 125mm (5") AND A TOTAL CROSS SECTIONAL AREA GREATER THAN 54 000 mm ² (84 in ²), WHICH INCLUDES ROUND DUCTS LARGER THAN A NOMINAL 254 mm (10") Ø.
7.	REFER TO MECHANICAL SPECIFICATION FOR ADDITIONAL INFORMATION.

AHU-1 %OA = 33%

AIR BALANCE TABLE

ROOM #	ROOM NAME	AREA square metres	CLG HGT metres	VOLUME cubic metres	PROPOSED DESIGN							CSA Z317.2-15 REQUIREMENT				
					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
112	Medication Pickup	3.5	2.4	8	47	0	52	5	-	6.7	22.3	Neg	4	12	Neg	Y
101	Inmate Waiting / Reception	10.5	2.4	25	85	0	94	9	-	4.0	13.5	Neg	4	12	Neg	Y
109 & 110	Nurse Station & Workstations	50.0	2.4	120	354	354	0	-	-	2.0	6.0	Eq	2	6	Eq	-
103	Examination Room	14.5	2.4	35	59	59	0	-	-	2.0	6.1	Eq	2	6	Eq	-
108	Optometrist	9.8	2.4	24	47	47	0	-	-	2.4	7.2	Eq	2	6	Eq	-
104	Treatment	17.6	2.4	42	71	71	0	-	-	2.0	6.0	Eq	2	6	Eq	-
105	Dental Operator	11.0	2.4	26	47	47	0	-	-	2.1	6.4	Eq	2	6	-	-
106	Dental Reprocessing	7.4	2.4	18	47	47	0	-	-	3.2	9.6	Eq	2	6	-	-
107	Inmate WC	5.1	2.4	12	0	0	47	47	-	0.0	13.9	Neg	-	9	Neg	Y
R12	EXTG. Janitor	3.9	2.4	9	0	0	42	42	-	0.0	16.2	Neg	-	10	Neg	Y
113	File Storage	7.5	2.4	18	0	24	0	24	-	0.0	4.7	Eq	-	2	Eq	-
111	Medication Room	14.7	2.4	35	90	80	0	-	9	3.0	9.2	Pos	3	9	Pos	-
116	Storage Room	15.6	2.4	37	94	94	0	-	-	1.5	4.5	Eq	-	2	Eq	-
114	Staff Lounge	14.7	2.4	35	76	0	90	14	-	2.5	9.2	Neg	2	6	-	-
115	Maintenance Closet	2.6	2.4	6	0	0	24	24	-	0.0	13.6	Neg	-	10	Neg	Y
117	Mechanical Room	8.2	2.4	20	71	0	71	0	-	2.1	6.4	Eq	-	-	-	-
TOTAL		197	-	472	1,088	824	349									
EXISTING AREAS SERVED OUTSIDE OF RENOVATION AREA					496											
GRAND TOTAL					1,584											

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1	ISSUED FOR PHASE 1	2018/03/15
Revision/Revision	Description/Description	Date/Date

CORRECTIONAL SERVICE CANADA (CSC)

Project Title/Titre du projet
33737 DEWDNEY TRUNK ROAD MISSION, B.C.

MISSION MINIMUM INSTITUTION EXPANSION OF HEALTH CARE

Consultant Signature Only

Designed by/Concept par
VC / GP

Drawn by/Dessiné par
VC

PWGSC Project Manager/Administrateur de Projets TPSSC
TONY TANG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSSC
PREETIPAL PAUL

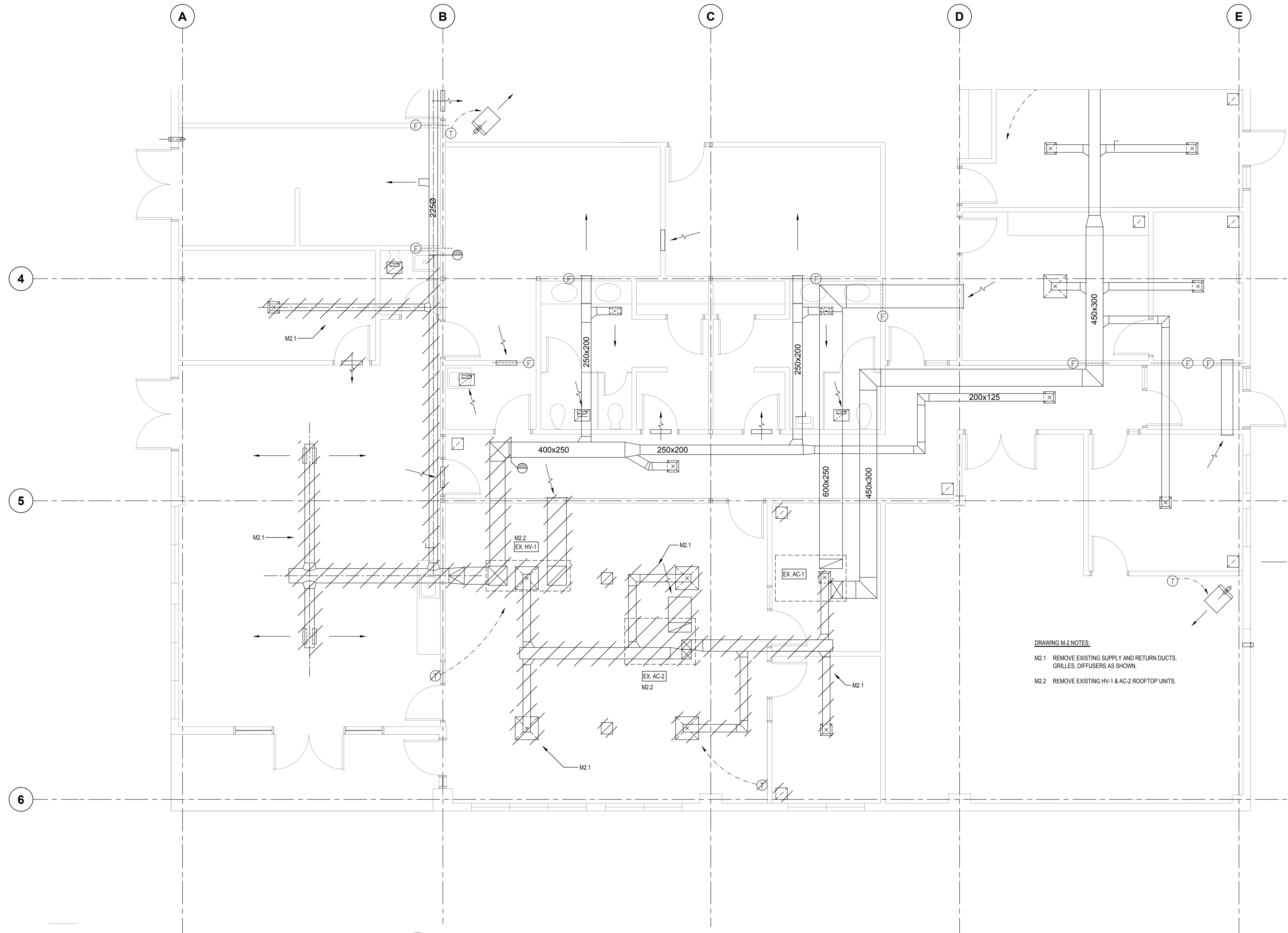
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LEGEND
AIR BALANCE TABLE
MECHANICAL

Project No./No. du projet
R.089145.001

Sheet/Fauille
M-1
OF 5

Revision no./La Révision no.
7



DRAWING M-2 NOTES:
M2.1 REMOVE EXISTING SUPPLY AND RETURN DUCTS, GRILLES, DIFFUSERS AS SHOWN.
M2.2 REMOVE EXISTING HV-1 & AC-2 ROOFTOP UNITS.

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PWGSC Project Manager/Administrateur de Projets TPSCG
TONY TANG

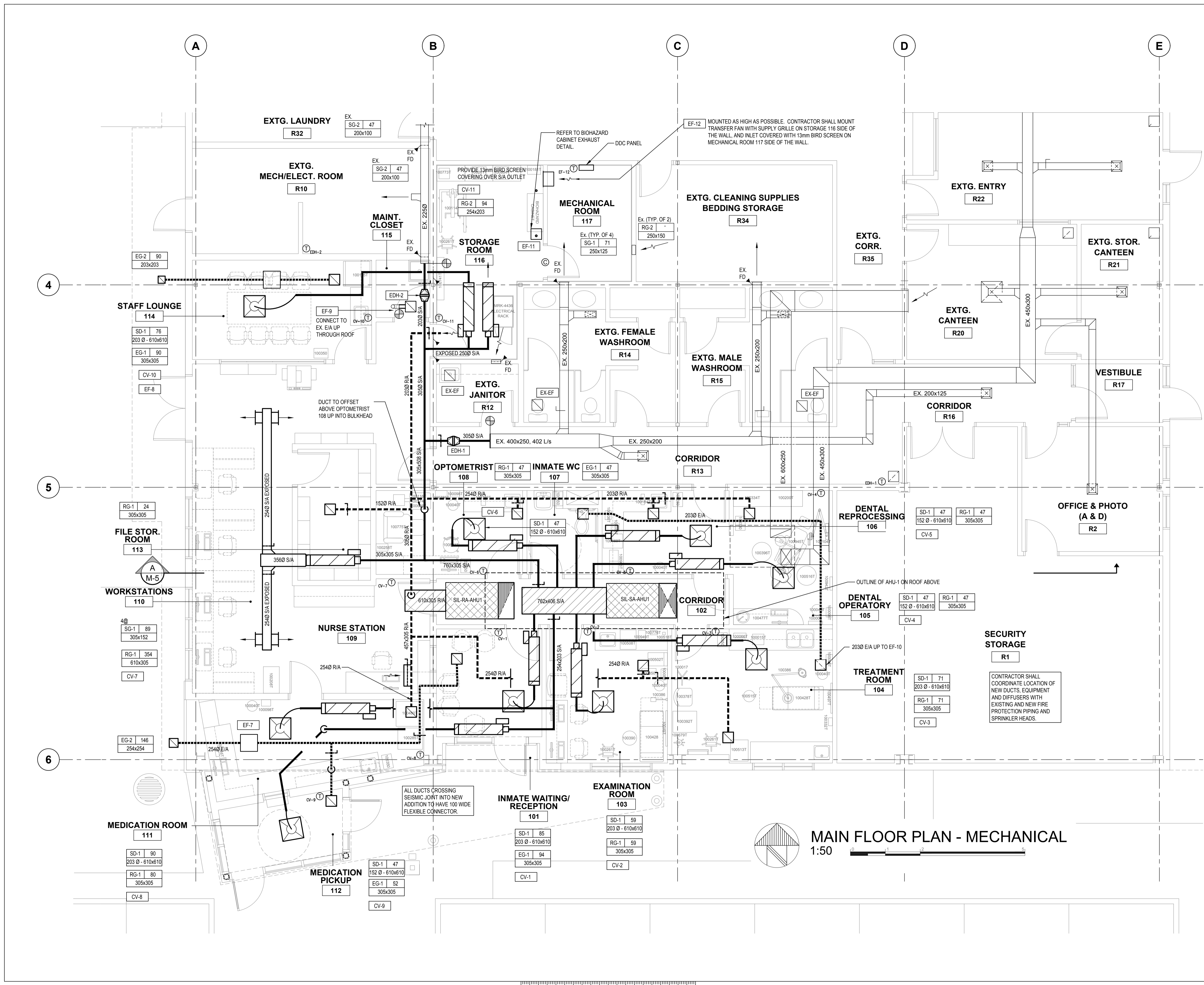
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Drawing title/Titre du dessin
MAIN FLOOR PLAN - DEMOLITION

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MAIN FLOOR PLAN - DEMOLITION
1:50





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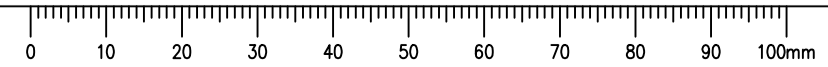
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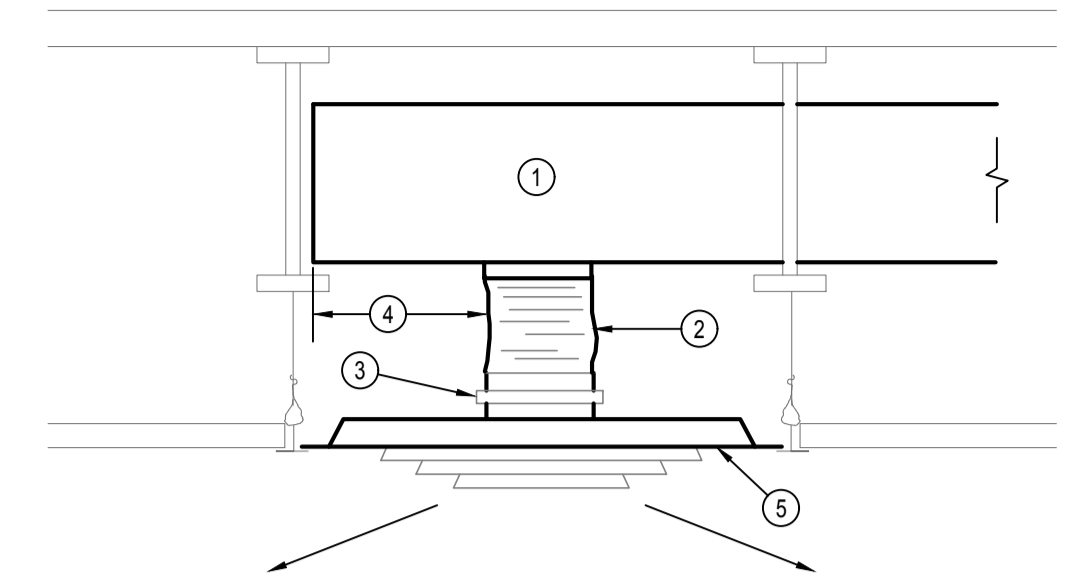
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 PWGSC Project Manager/Administrateur de Projets TPFGC TONY TANG
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régionale, Services d'architecture et de génie, TPFGC PREETIPAL PAUL
 Drawing title/Titre du dessin
MAIN FLOOR PLAN - MECHANICAL

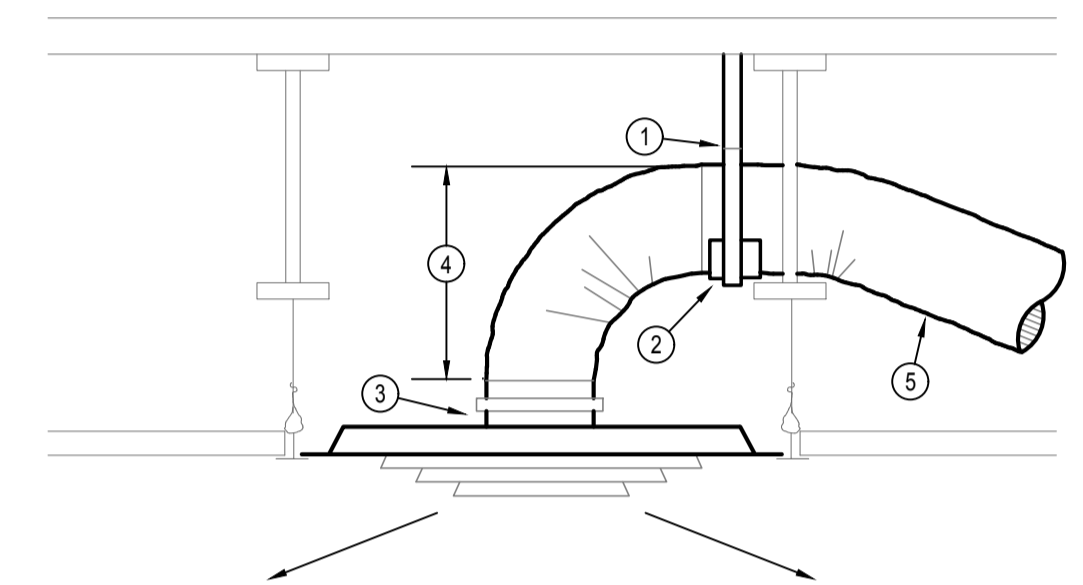
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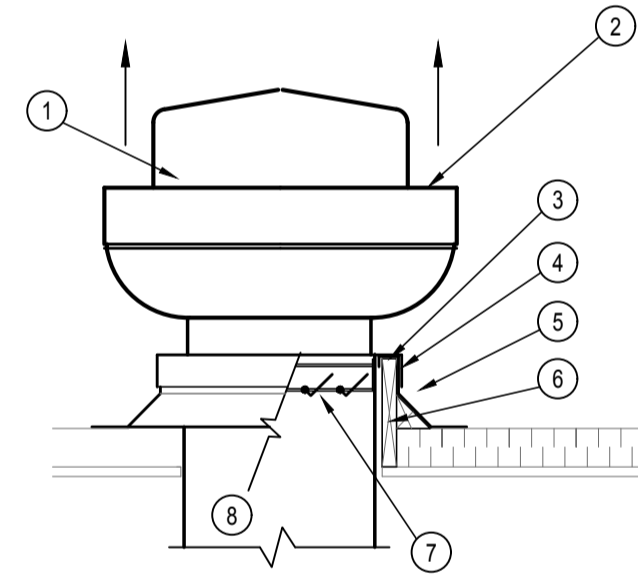
- RIGID STEEL DUCT
- FLEXIBLE DUCT AS SPECIFIED. MAXIMUM LENGTH 1829mm(6'-0")
- PLASTIC ELECTRICAL TIE AND DUCT SEALANT TO NECK
- TWO NECK DIA. MIN. OFFSET
- DIFFUSER AS SCHEDULED

FLEXIBLE DUCT/DIFFUSER CONNECTION
N.T.S.



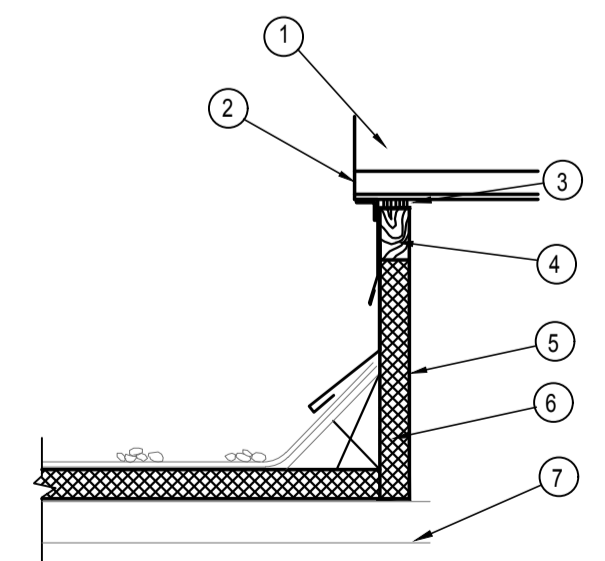
- SUPPORT FLEXIBLE DUCT CLOSE TO DIFFUSER NECK WITH DUCT STRAP
- 100mm(4") SHEET METAL SHIELD TO PREVENT PINCHING
- PLASTIC ELECTRICAL TIE AND DUCT SEALANT TO NECK
- TWO NECK DIA. MIN. OFFSET
- FLEXIBLE DUCT AS SPECIFIED. MAX. LENGTH 1829mm(6'-0")

FLEXIBLE DUCT/DIFFUSER CONNECTION
N.T.S.



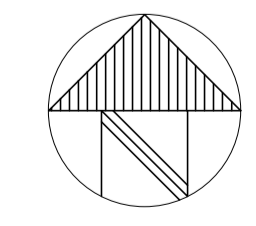
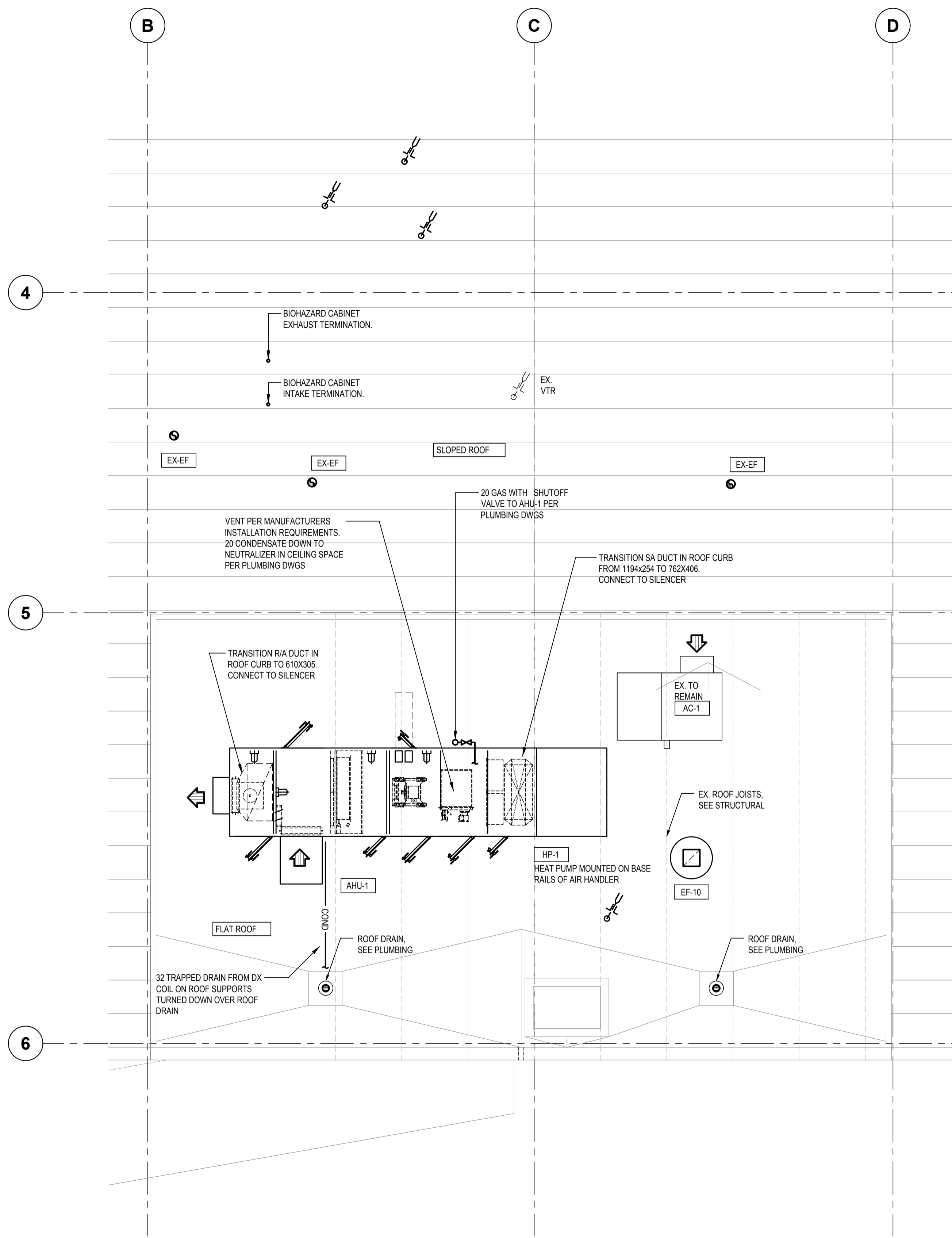
- DISCONNECT SWITCH UNDER HOOD.
- BIRD GUARD
- CAULK ALL AROUND
- GALVANIZED LAG SCREW TO BASE
- FLASHING & COUNTER FLASHING
- PROVIDE FAN MANUFACTURER'S CURB MINIMUM 200mm ABOVE FINISHED ROOF ELEVATION. COORDINATE CURB HEIGHT REQUIREMENT WITH ROOFING CONTRACTOR & ARCHITECTURAL DRAWINGS.
- BACKDRAFT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

ROOF EXHAUST FAN UPBLAST
N.T.S.



- ROOFTOP UNIT
- SEISMIC RESTRAINT TO MANUFACTURER'S SPECIFICATIONS
- NEOPRENE SEAL
- NAILER STRIP
- ROOFTOP UNIT CURB
- ROOFING CONTRACTOR TO PROVIDE RIGID INSULATION TO UNDERSIDE OF NAILER STRIP. EXTEND ROOFING MEMBRANE UP SIDE OF CURB WITH FLASHING & COUNTER FLASHING
- REFER TO STRUCTURAL DRAWINGS FOR ATTACHMENT TO ROOF STRUCTURE

ROOFTOP UNIT CURB
N.T.S.



ROOF PLAN - MECHANICAL

1:50



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33737 DEWDNEY TRUNK ROAD MISSION, B.C.

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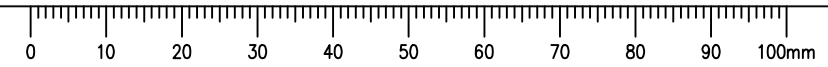
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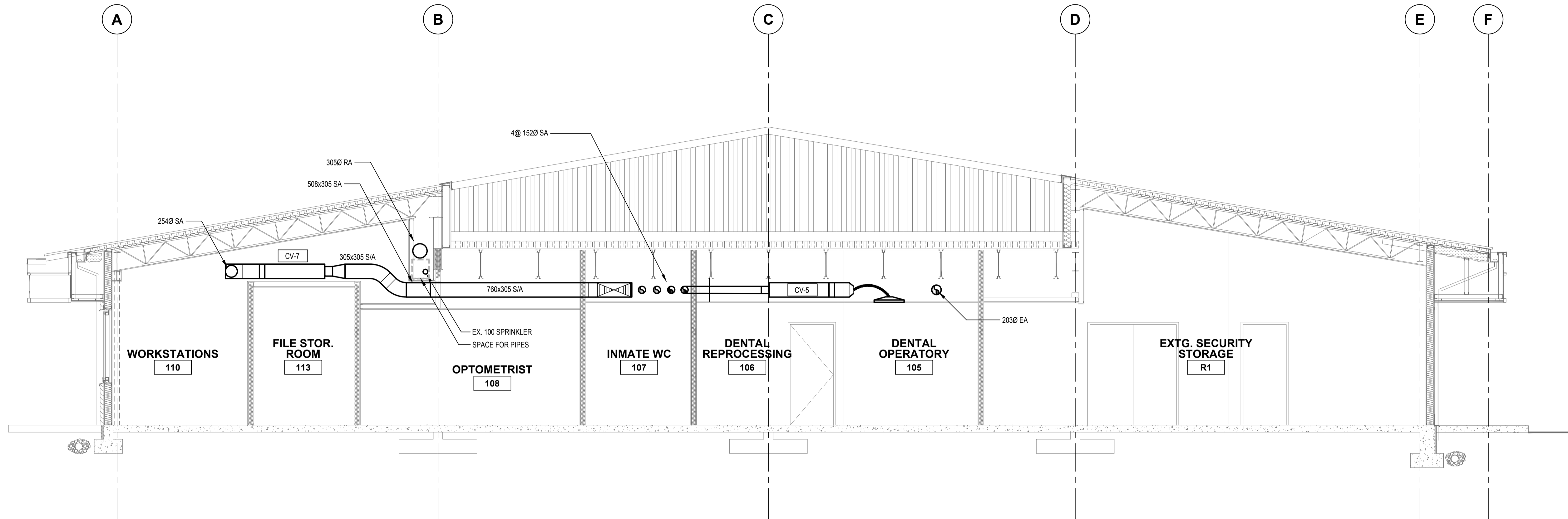
PWGSC Project Manager/Administrateur de Projets TPSSC
TONY TANG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSSC
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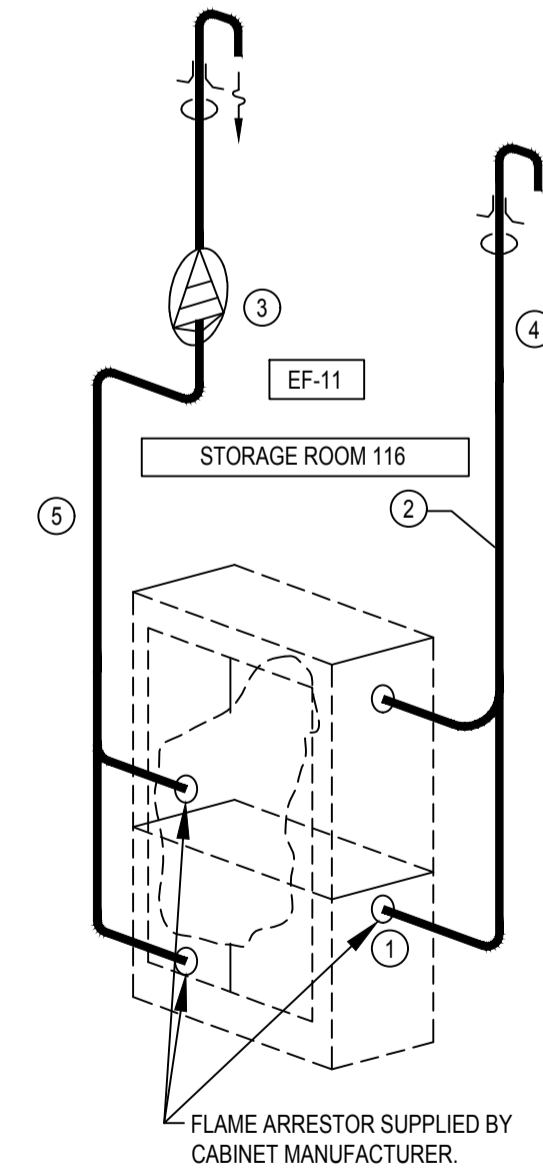
Drawing title/Titre du dessin
ROOF PLAN - MECHANICAL

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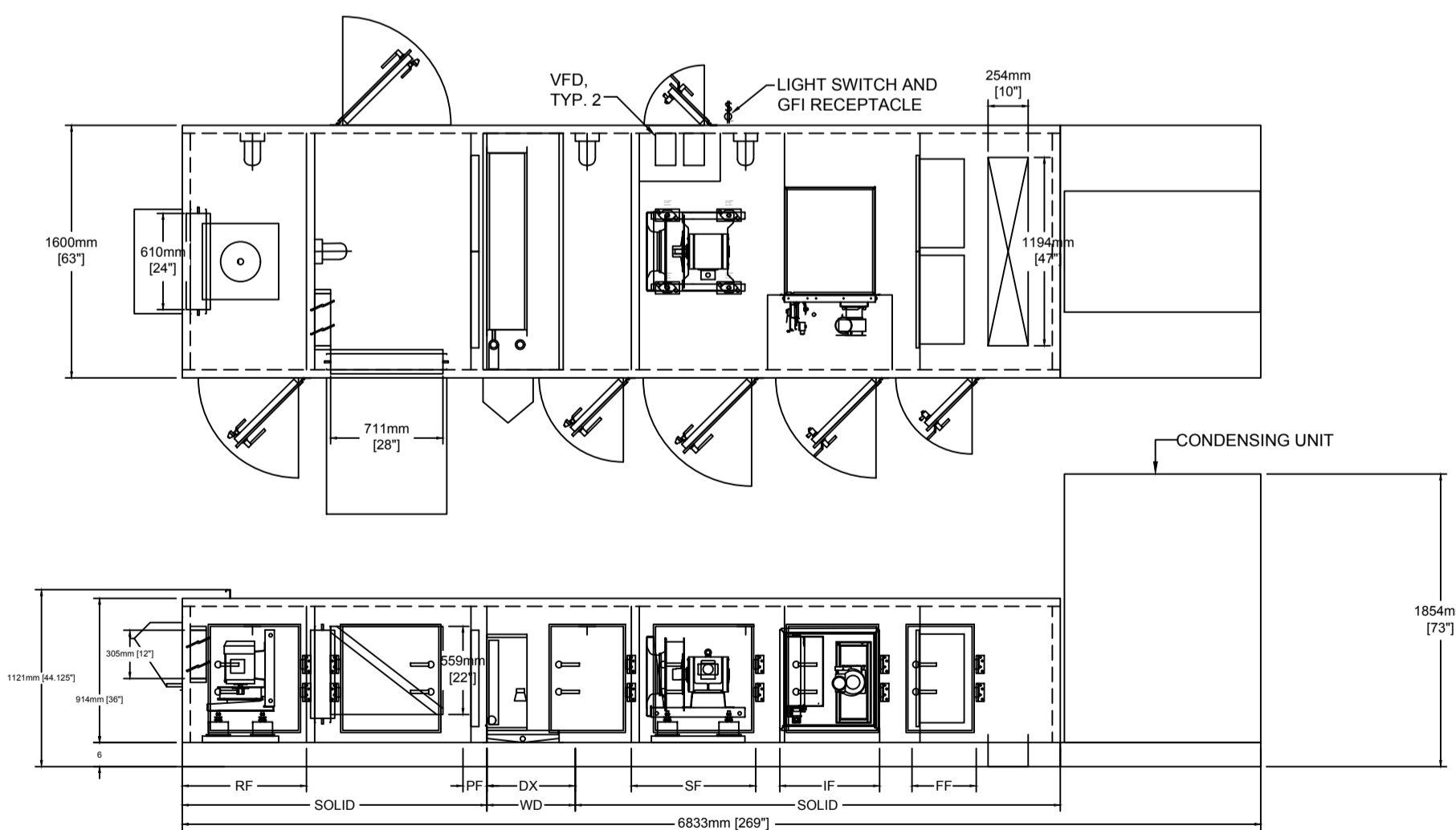


SECTION A
1:50
M-3



FLEXIBLE DUCT/DIFFUSER CONNECTION
N.T.S.

- BIOHAZARD STORAGE CABINET BY OTHERS. PROVIDE EXHAUST SYSTEM FOR STORAGE CABINET.
- 50mm DIA. STAINLESS STEEL AIR INTAKE PIPE. PROVIDE 25mm THERMAL INSULATION.
- EXHAUST FAN EF-11 REFER TO SCHEDULE. INSTALL FAN EXPOSED ABOVE CABINET. PROVIDE SUPPORT AND SEISMIC RESTRAINT.
- 50mm DIA. INTAKE AIR TERMINAL THRU ROOF, 305mm ABOVE ROOF C/W BUGSCREEN, CONFIRM EXACT LOCATION ON SITE. PROVIDE REVERSED ELBOW, FLASHINGS AND COUNTER FLASHINGS.
- 50mm DIA. STAINLESS STEEL EXHAUST PIPE THRU ROOF. TERMINATE 600mm ABOVE ROOF. PROVIDE REVERSED ELBOW, S. S. FLASHINGS AND COUNTER FLASHINGS. PROVIDE 25mm THERMAL INSULATION.



AHU-1 BASIS OF DESIGN LAYOUT
N.T.S.

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VC / GP
Drawn by/Dessiné par
VC

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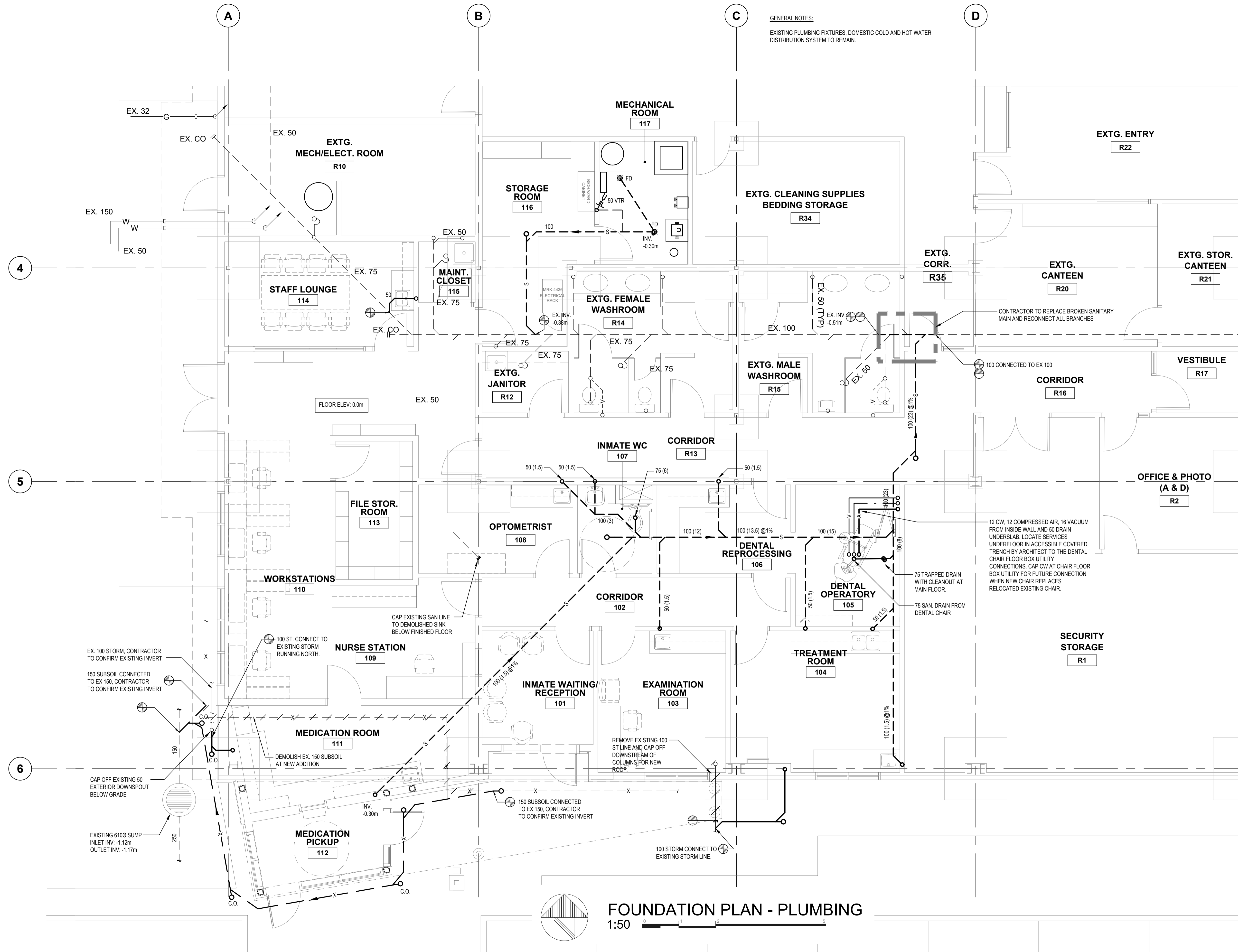
Drawing title/Titre du dessin
BUILDING SECTION - MECHANICAL

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GENERAL NOTES:

EXISTING PLUMBING FIXTURES, DOMESTIC COLD AND HOT WATER DISTRIBUTION SYSTEM TO REMAIN.



FOUNDATION PLAN - PLUMBING
1:50

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CORRECTIONAL SERVICE CANADA (CSC)

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Drawn by/Dessiné par VC
PWSC Project Manager/Administrateur de Projets TPSC TONY TANG
Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architecture et de génie, TPSC PREETIPAL PAUL
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FOUNDATION PLAN - PLUMBING

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
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DRAWING P-2 NOTES

P2.01	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.
P2.02	EW-1 SET @ 70°C PIPED IN SERIES WITH DHWH-1. MOUNT ON 100mm CONC. HOUSEKEEPING PAD.
P2.03	DENTAL AIR COMPRESSOR BY DENTAL EQUIPMENT SUPPLIER. REFER TO SPECIFICATIONS. MOUNT ON 100mm CONC. HOUSEKEEPING PAD.
P2.04	PROVIDE LOCKING SHUT-OFF VALVES FOR DENTAL SERVICES.
P2.05	12 CW(2), 12 COMPRESSED AIR, 20 VACUUM DOWN IN WALL TO UNDERSLAB. CONNECT TO DENTAL CHAIR FLOOR BOX UTILITY CONNECTIONS. COORDINATE PIPE ROUTING WITH ARCHITECTURAL DRAWINGS, LOCATING SERVICES TO CHAIR IN ACCESSIBLE COVERED TRENCH WITHIN FLOOR.
P2.06	50 AIR COMPRESSOR INTAKE. CONNECT TO AIR COMPRESSOR MANIFOLD KIT WITH FLEX. CONNECTION. CLEAR PIPE AND DRIP LEG WITH DRAIN.
P2.07	50 AIR COMPRESSOR INTAKE THRU ROOF. PROVIDE REVERSED ELBOW WITH INSECT SCREEN TERMINAL.
P2.08	VACUUM AIR/WATER SEPARATOR. MOUNT AT WALL. PIPE DRAIN INDIRECTLY TO HUB DRAIN. PROVIDE MIN. 150mm AIR GAP.
P2.09	50 AIR/WATER VENT UP THRU ROOF
P2.10	12 CW(2), 12 COMPRESSED AIR, 16 VACUUM AND 40 DRAIN. LOCATE SERVICES THRU FLOOR ONTO THE DENTAL CHAIR FLOOR BOX UTILITY CONNECTIONS.
P2.11	VACUUM LINE HIGH POINT. SLOPED BACK TO CHAIR AND VACUUM PUMP.
P2.12	REMOVE EXISTING HOT & COLD LINES DOWNSTREAM OF POINT OF DISCONNECTION AND PROVIDE CAP OFF.
P2.13	REMOVE EXISTING SINK. CAP OFF SANITARY LINE BELOW SLAB.
P2.14	REMOVE EXISTING VENT LINE DOWNSTREAM OF POINT OF DISCONNECTION AND PROVIDE CAP OFF.
P2.15	REMOVE EXISTING 25G UP TO EX. HV-1.
P2.16	REMOVE EX. 25 G UP TO EX. AC-2
P2.17	CONNECT EX. HOSE BIBB TO NEW DCW LINE.
P2.18	PROVIDE TRAP PRIMER. TRAP PRIMER LOCATED IN AREA ACCESSIBLE TO PUBLIC OR INMATES SHALL BE MOUNTED WITHIN WALL WITH STAINLESS STEEL ACCESS PANEL THAT IS KEYPED THE SAME AS OTHER LOCKABLE ACCESS PANELS. REFER TO SPECIFICATIONS.
P2.19	SHUT-OFF SWITCH TO CLOSE N.O. SOLENOID 2 WAY VALVES FOR WATER SUPPLY TO SECURITY FIXTURES MOUNT ON WALL 1200mm A.F.F.
P2.20	25 GAS (150CFH) UP TO DIRT LEG AND SHUTOFF VALVE SERVING AHU-1.
P2.21	PROVIDE HEAT TRACING ON EXTERIOR PORTION OF STORM LINE AND EXTEND 1m INSIDE THE BUILDING. REFER TO ELECTRICAL DWGS.
P2.22	NEW 100 ST (1550L) DOWN IN FURRING ON WARM SIDE OF EXTERIOR WALL. COORDINATE WITH GENERAL CONTRACTOR.
P2.23	REMOVE EXISTING STORM LINE.
P2.24	OFFSET EXISTING EXTERIOR DOWNSPOUT FROM ROOF GUTTER IN SOFFIT SPACE TO NEW 100 RWL.
P2.25	COORDINATE 75 RWL THRU 100 HOLE IN BEAM. REFER TO STRUCTURAL DWGS.
P2.26	20 PVC CONDENSATE FROM AHU-1 TO CONDENSATE NEUTRALIZER. PIPE TO NEAREST SINK TAIL PIECE UPSTREAM OF P-TRAP.
P2.27	THERMOMETER AND DDC WATER TEMPERATURE SENSOR FOR DHWR. NEAR FMV. CONTRACTOR SHALL INCREASE DHWR SIZE OR PROVIDE PROPER FITTINGS TO ACCOMMODATE DDC TEMPERATURE SENSOR AT LOCATIONS SHOWN.
P2.28	CONNECT NEW 50 VENT LINE TO EXISTING VENT LINE

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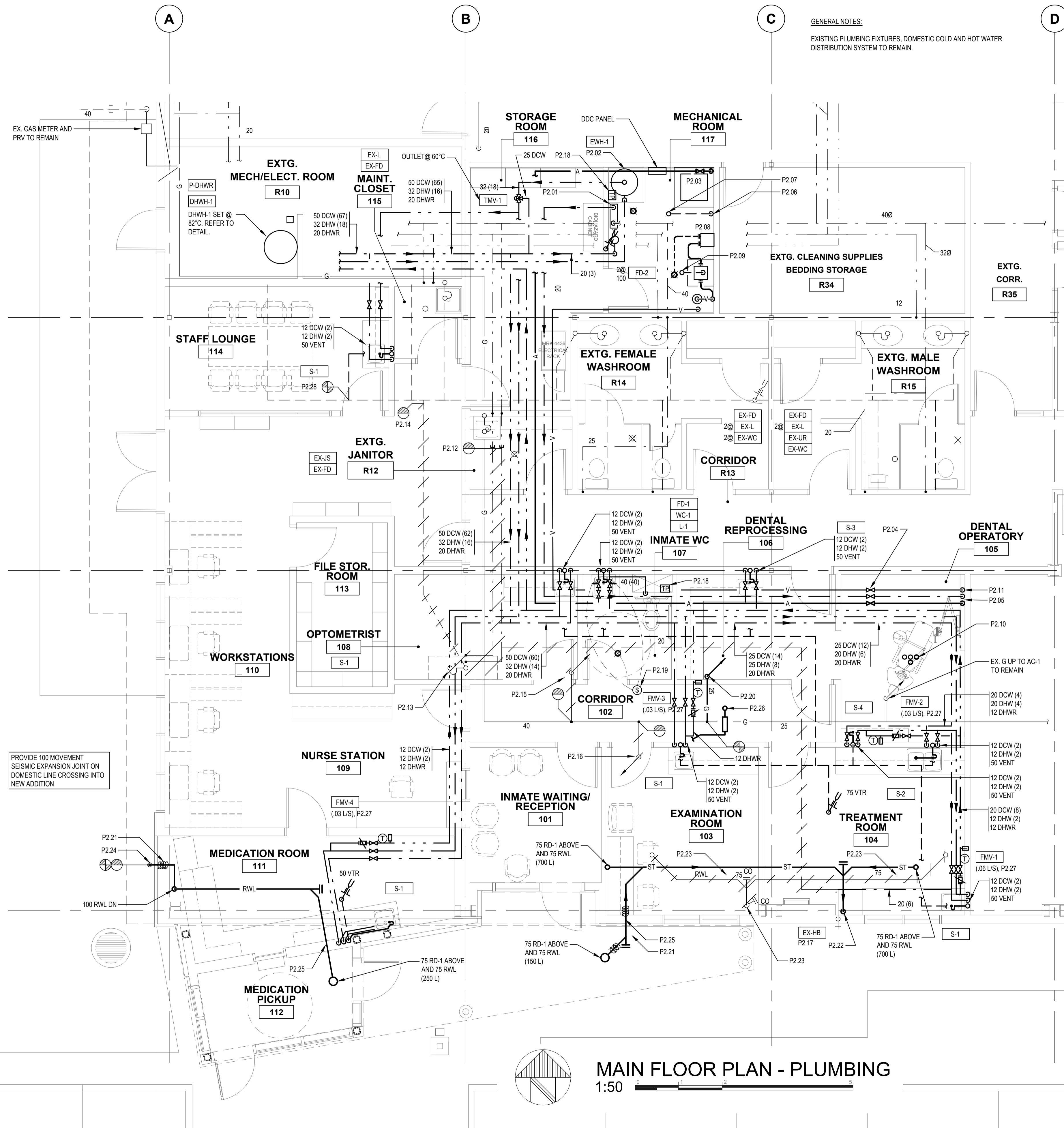
Project title/Titre du projet
33737 DEWDNEY TRUNK ROAD MISSION, B.C.

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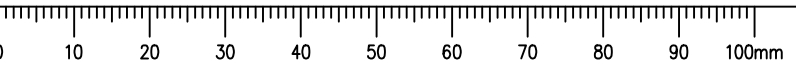
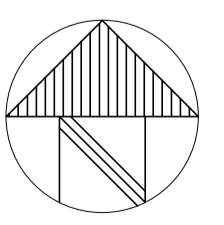
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 PWGSC Project Manager/Administrateur de Projets TPSSC TONY TANG
 Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSSC PREETIPAL PAUL
 Drawing title/Titre du dessin
MAIN FLOOR PLAN - PLUMBING

Project No./No. du projet: **R.089145.001**
 Sheet/Feuille: **P-2 OF 3**
 Revision no./La Révision no.: **7**

GENERAL NOTES:
 EXISTING PLUMBING FIXTURES, DOMESTIC COLD AND HOT WATER DISTRIBUTION SYSTEM TO REMAIN.

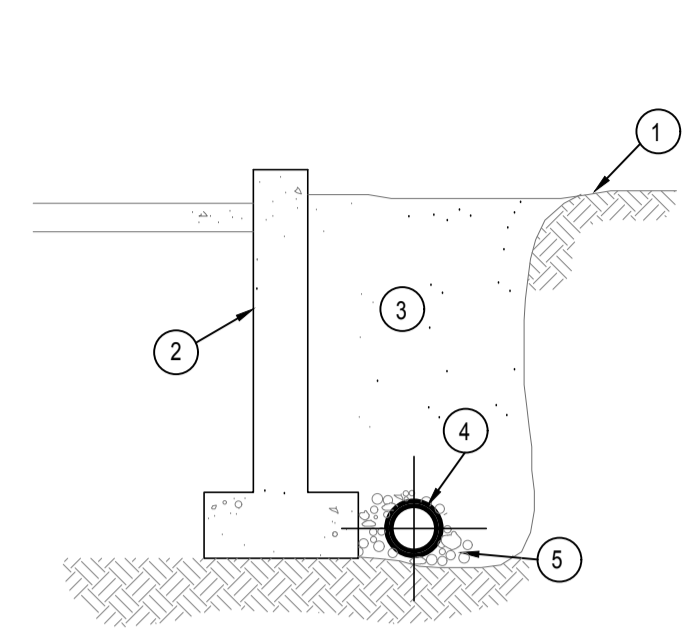


MAIN FLOOR PLAN - PLUMBING
 1:50



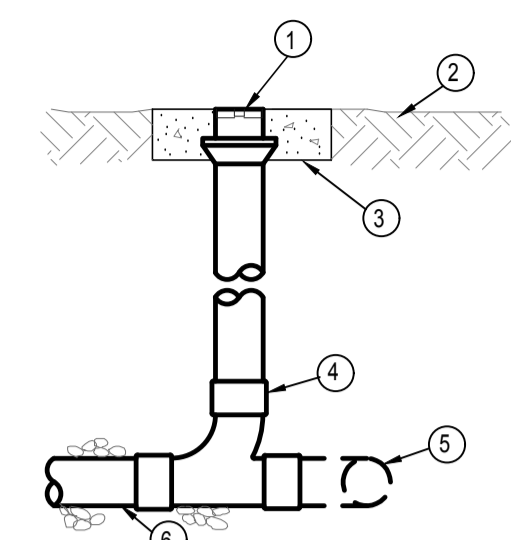


Project Reference No: 151499.000



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

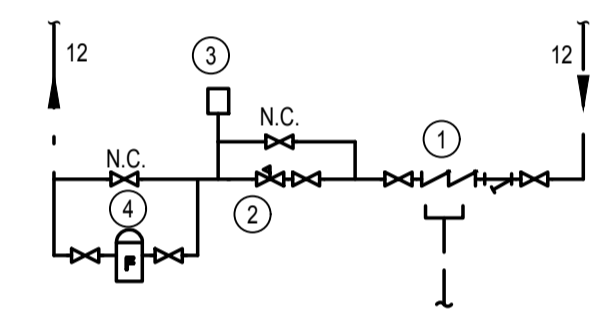
SUB-SOIL DRAIN N.T.S.



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.

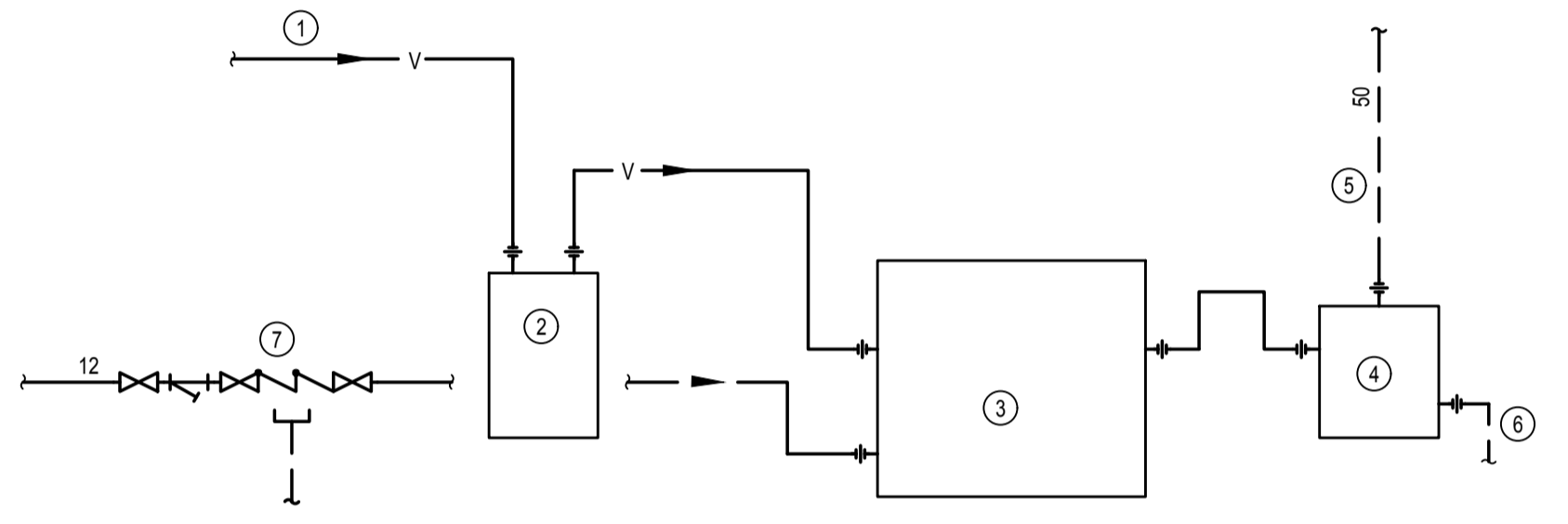
SUB-SOIL DRAIN CLEANOUT N.T.S.

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



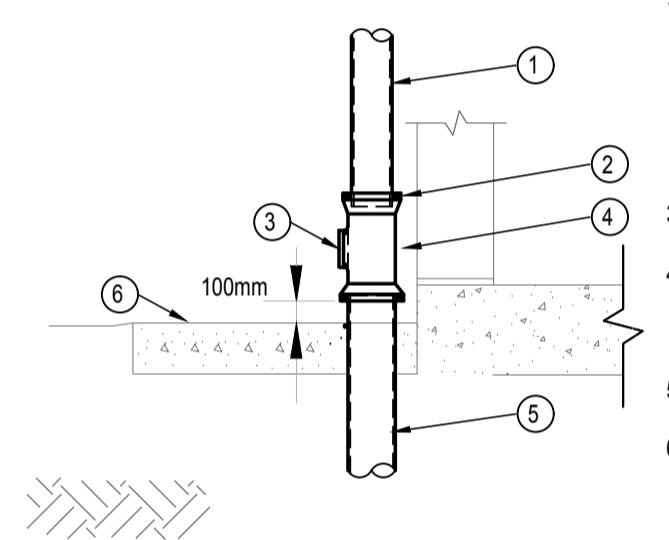
1. REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER AND AIR GAP. PIPE DRAIN TO FLOOR DRAIN ADJACENT. INSTALL PREVENTER 1000mm A.F.F.
2. PRESSURE REDUCING VALVE.
3. WATER HAMMER ARRESTOR.
4. WATER FILTER.

DENTAL WATER PIPING SCHEMATIC N.T.S.



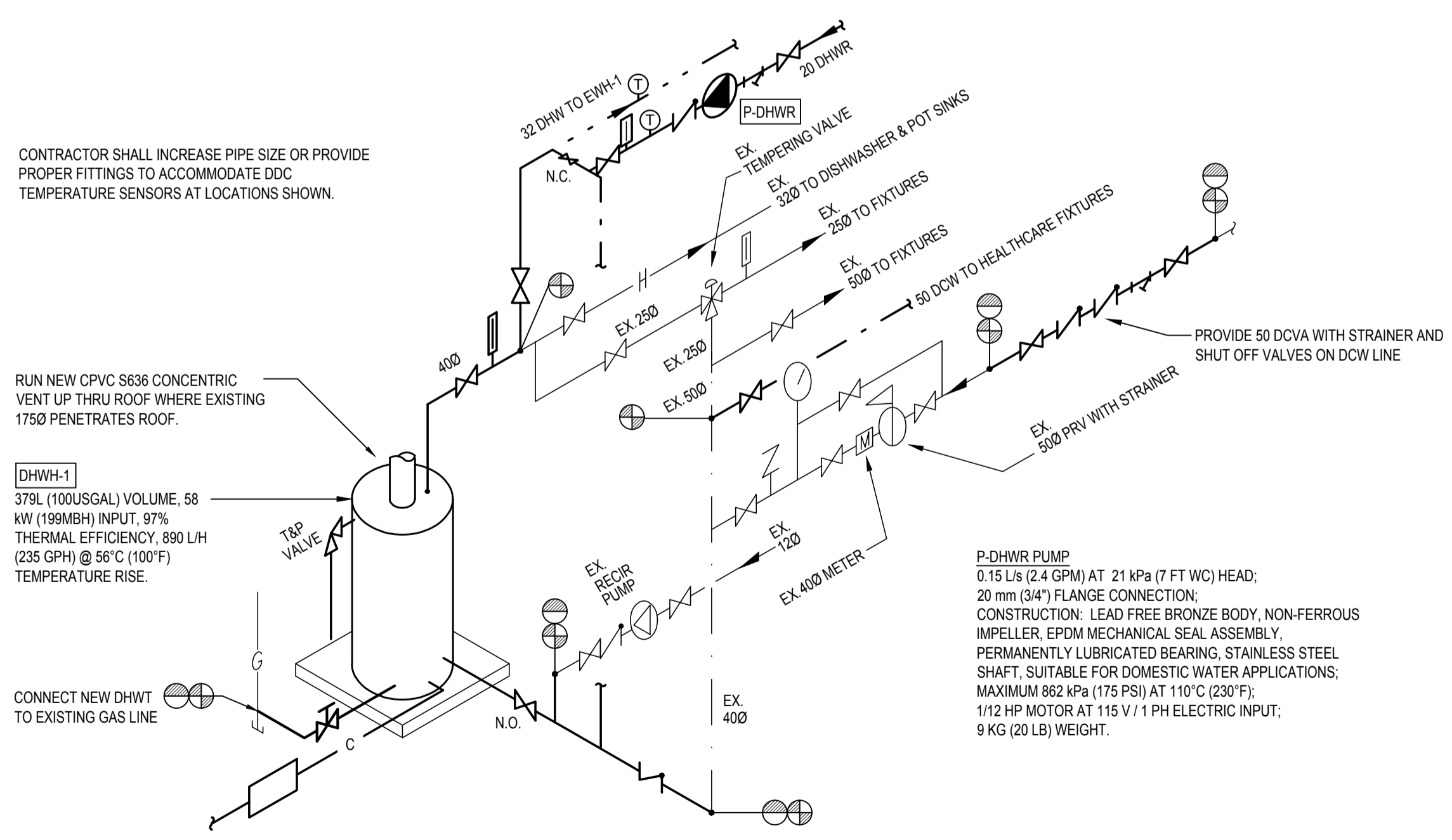
1. DENTAL VACUUM MAIN PIPING.
2. AMALGAM SEPARATOR.
3. VACUUM PUMP.
4. WALL MOUNTED AIR/WATER SEPARATOR.
5. VENT THRU ROOF. SLOPE PIPING TOWARD SEPARATOR. TERMINATE WITH REVERSED ELBOW C/W BUSSCREEN.
6. PIPE DRAIN TO FLOOR DRAIN ADJACENT.
7. REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER AND AIR GAP.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

DENTAL VACUUM PIPING SCHEMATIC N.T.S.



1. 75Ø CAST IRON "MJ" 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 Ø PVC CLEANOUT "T". CONFIRM O.D. OF RWL PRIOR TO INSTALLING CLEANOUT. ANCHOR CLEANOUT TO WALL.
5. 100 Ø STORM SEWER
6. FINISHED GRADE

RAINWATER LEADER BASE N.T.S.



CONTRACTOR SHALL INCREASE PIPE SIZE OR PROVIDE PROPER FITTINGS TO ACCOMMODATE DDC TEMPERATURE SENSORS AT LOCATIONS SHOWN.

RUN NEW CPVC S636 CONCENTRIC VENT UP THRU ROOF WHERE EXISTING 175Ø PENETRATES ROOF.

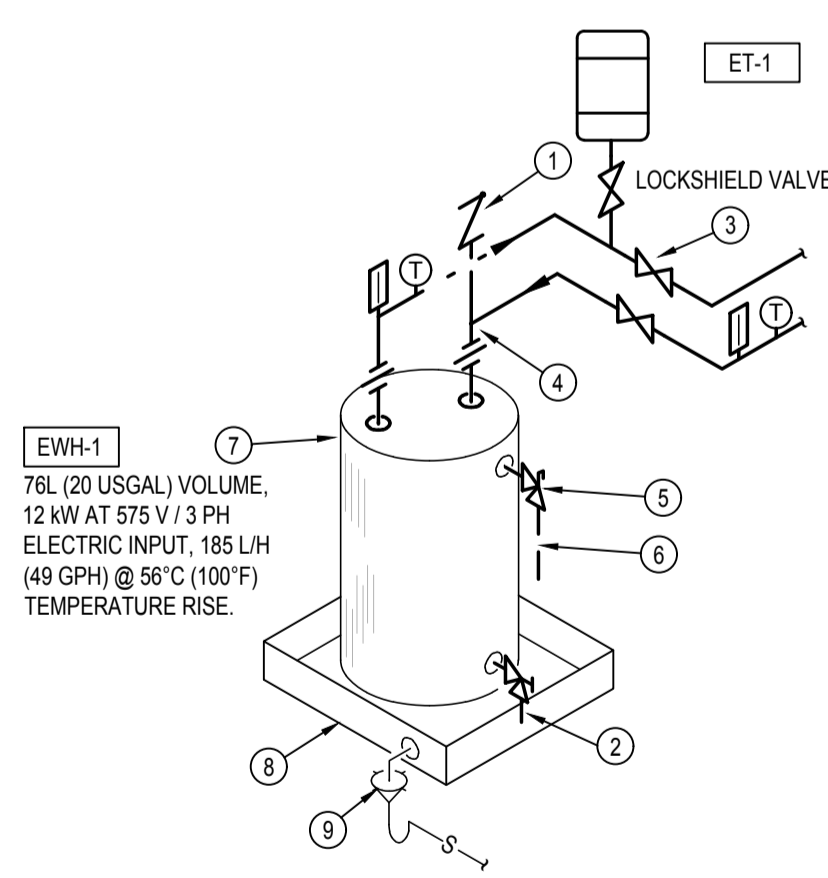
DHWH-1
379L (100USGAL) VOLUME, 58 kW (199MBH) INPUT, 97% THERMAL EFFICIENCY, 890 L/H (235 GPH) @ 56°C (100°F) TEMPERATURE RISE.

CONNECT NEW DHWT TO EXISTING GAS LINE

20mmØ CONDENSATE CONNECTING ALL CONDENSATE TUBING FROM DHWT AND PIPED TO NEUTRALIZATION KIT SECURED TO THE FLOOR. PROVIDE UNIONS ON PIPING TO FACILITATE EASY REMOVAL. RUN CONDENSATE TO NEAREST FLOOR DRAIN PER MANUFACTURERS RECOMMENDATION.

HOT WATER TANK WATER PIPING SCHEMATIC N.T.S.

P-DHWR PUMP
0.15 L/s (2.4 GPM) AT 21 kPa (7 FT WC) HEAD;
20 mm (3/4") FLANGE CONNECTION;
CONSTRUCTION: LEAD FREE BRONZE BODY, NON-FERROUS IMPELLER, EPDM MECHANICAL SEAL ASSEMBLY, PERMANENTLY LUBRICATED BEARING, STAINLESS STEEL SHAFT. SUITABLE FOR DOMESTIC WATER APPLICATIONS; MAXIMUM 862 kPa (175 PSI) AT 110°C (230°F); 1/12 HP MOTOR AT 115 V / 1 PH ELECTRIC INPUT; 9 KG (20 LB) WEIGHT.



1. ANTI SIPHON INLET AS SPEC'D 20mm(3/4") WATTS 36A VACUUM RELIEF VALVE.
2. DRAIN VALVE.
3. ISOLATION VALVE.
4. DI-ELECTRIC UNION.
5. TEMPERATURE & PRESSURE RELIEF VALVE.
6. PIPE RELIEF TO DRAIN PAN.
7. DOMESTIC HOT WATER TANK AS NOTED ON PLAN.
8. GALVANIZED SHEET METAL DRAIN PAN C/W DRAIN.
9. FLOOR DRAIN.

ELECTRIC DOMESTIC HOT WATER HEATER N.T.S.

ET-1 MOUNTED ON WALL SHELF SEISMICALLY BRACED ABOVE EWH-1. ET-1 95L (25 USGAL), 0.44 MAX. ACCEPTANCE FACTOR, 406mm (16") Ø x 813mm (32") H, 19mm (3/4") Ø SYSTEM CONNECTION, 39kg (85lb) SHIPPING WEIGHT, ASME CODE SECTION VIII DIVISION 1 RATED, PROVIDED WITH SIGHT GLASS AND SEISMIC RESTRAINTS, MAX 93°C (200°F) OPERATING TEMPERATURE AND 1030kPa (150PSI) MAX. WORKING PRESSURE. STEEL SHELL, HEAVY DUTY BUTYL DIAPHRAGM WITH NSF/ANSI 61 APPROVALS, POLYPROPYLENE LINER.

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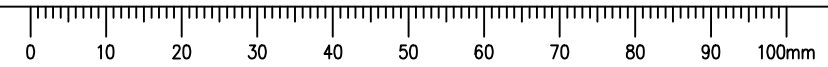
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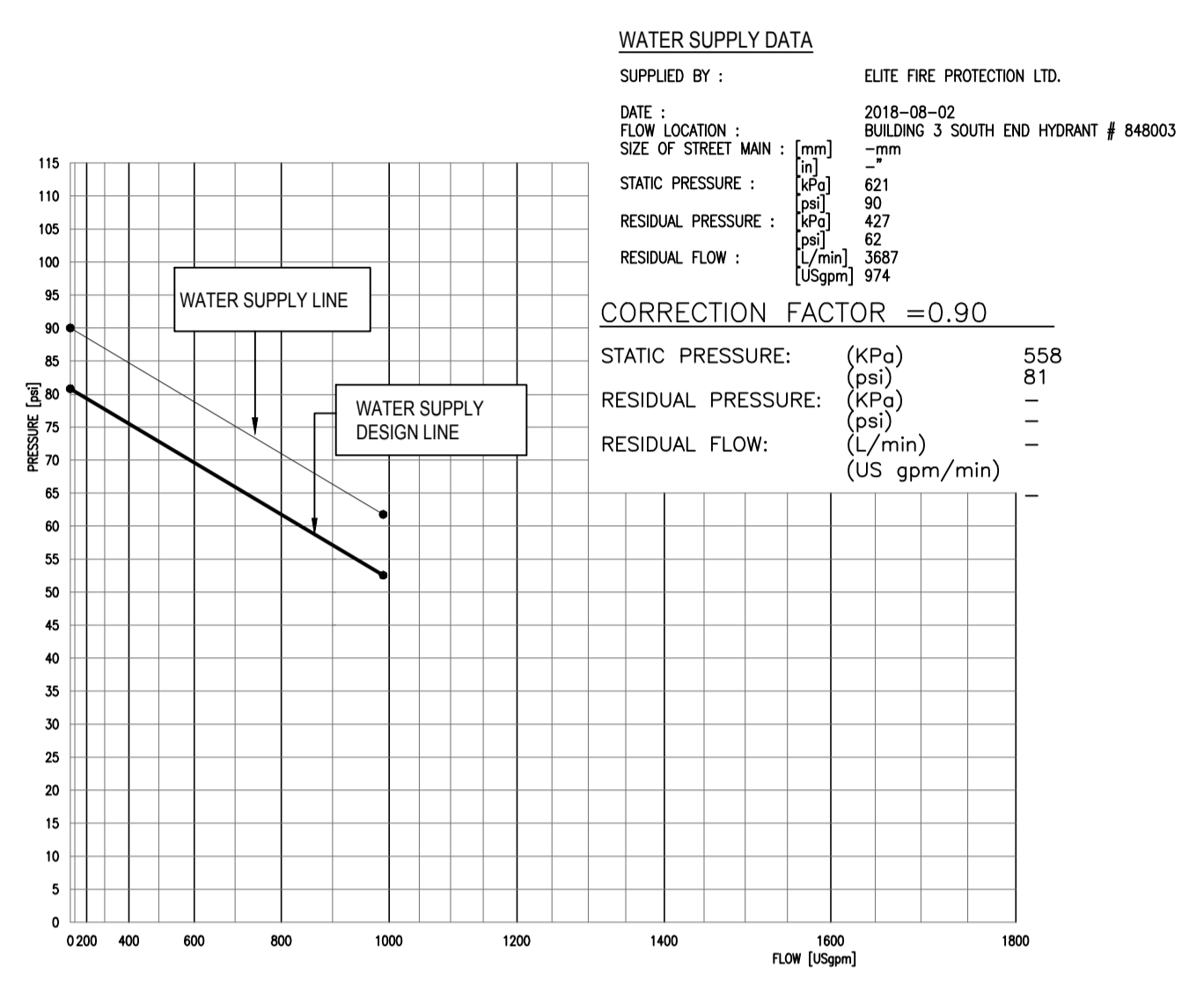
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Consultant Signature Only
Designed by/Concept par VC / GP
Drawn by/Dessiné par VC
PWGSC Project Manager/Administrateur de Projets TPSPC TONY TANG
Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architectural et de génie, TPSPC PREETIPAL PAUL

Drawing title/Titre du dessin
LEGEND AND DETAILS

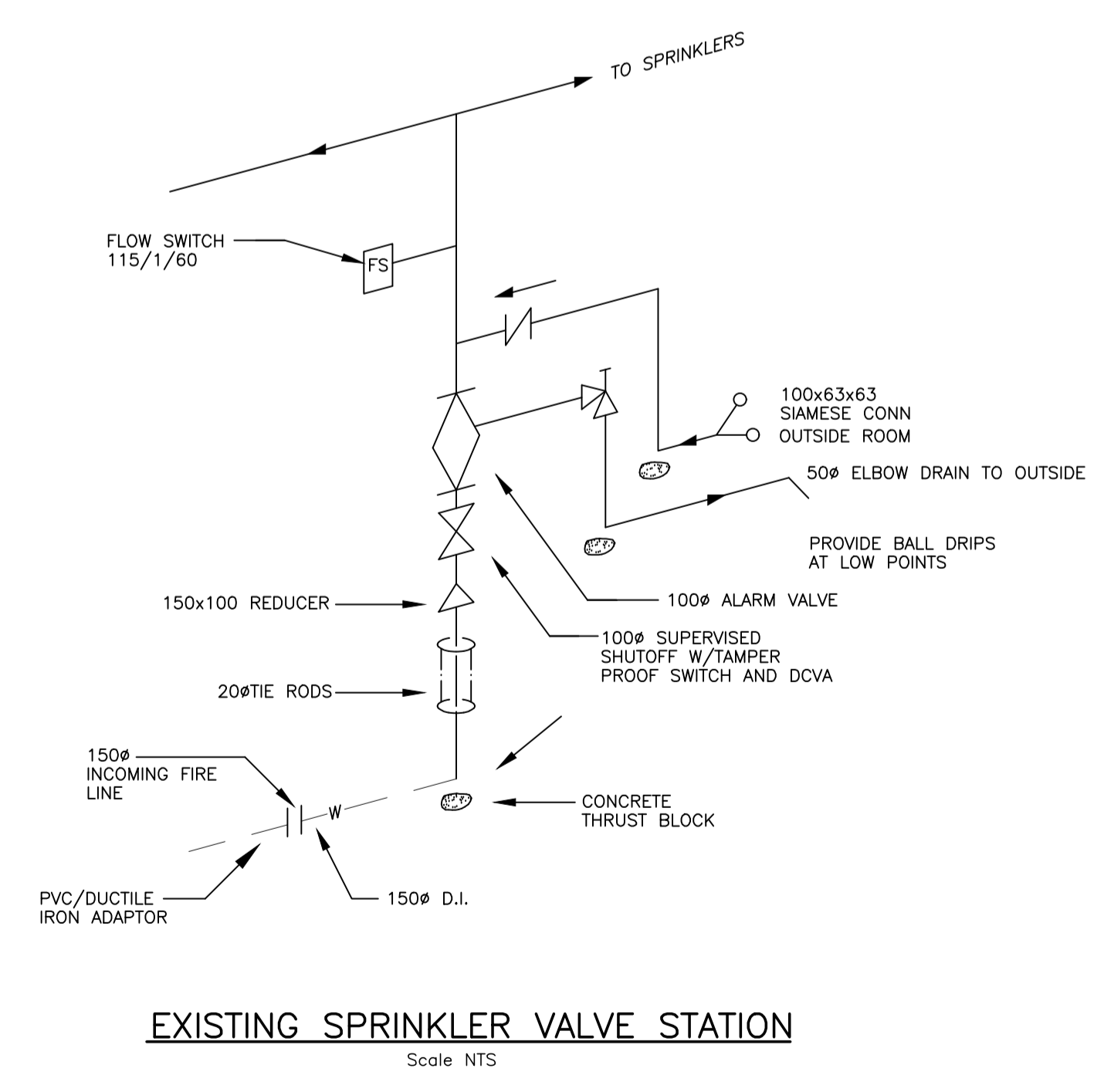
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FIRE PROTECTION LEGEND	
●	RECESSED, 15mm (1/2"), K FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
○	UPRIGHT OR PENDENT, 15mm (1/2"), K FACTOR 80.7(5.6), 100°C(212°F), BRASS
⊙	PENDENT, 15mm (1/2"), K FACTOR 80.7(5.6), 74°C(165°F), 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.
*	INDICATES CHROME PLATED LISTED GUARD.
◁	SIDEWALL, QUICK RESPONSE, 15mm (1/2"), K FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME ESCUTCHEON.
●	FLUSH, CONCEALED, INSTITUTIONAL, 15mm (1/2"), K FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON, TAMPER RESISTANT.
▲	WET ALARM VALVE
◆	DRY ALARM VALVE
FS	WATERFLOW SWITCH
PS	WATER PRESSURE SWITCH
SS	SUPERVISED SHUT-OFF VALVE
—	WET SYSTEM PIPE
—	DRY SYSTEM PIPE
— SIA —	SIAMESE
/ / /	EXISTING TO BE DEMOLISHED
—	EXISTING PIPE TO REMAIN

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



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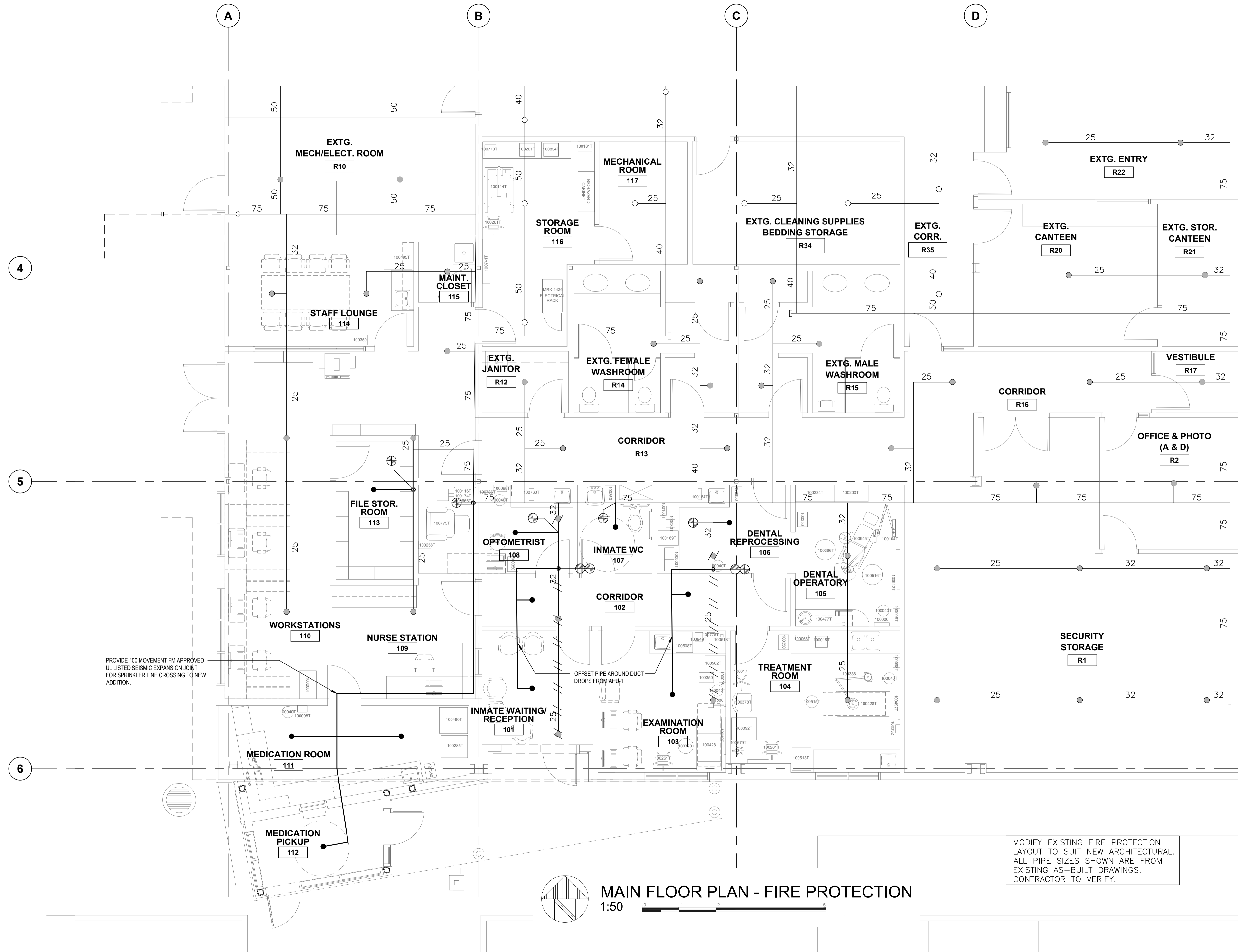
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Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSPG PREETIPAL FAUL

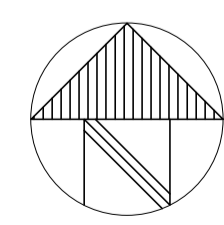
Drawing title/Titre du dessin
LEGEND AND DETAILS - FIRE PROTECTION

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PROVIDE 100 MOVEMENT FM APPROVED UL LISTED SEISMIC EXPANSION JOINT FOR SPRINKLER LINE CROSSING TO NEW ADDITION.



MAIN FLOOR PLAN - FIRE PROTECTION
1:50

MODIFY EXISTING FIRE PROTECTION LAYOUT TO SUIT NEW ARCHITECTURAL. ALL PIPE SIZES SHOWN ARE FROM EXISTING AS-BUILT DRAWINGS. CONTRACTOR TO VERIFY.

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PWSC Project Manager/Administrateur de Projets TPSCG
TONY TANG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCG
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MAIN FLOOR PLAN - FIRE PROTECTION

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