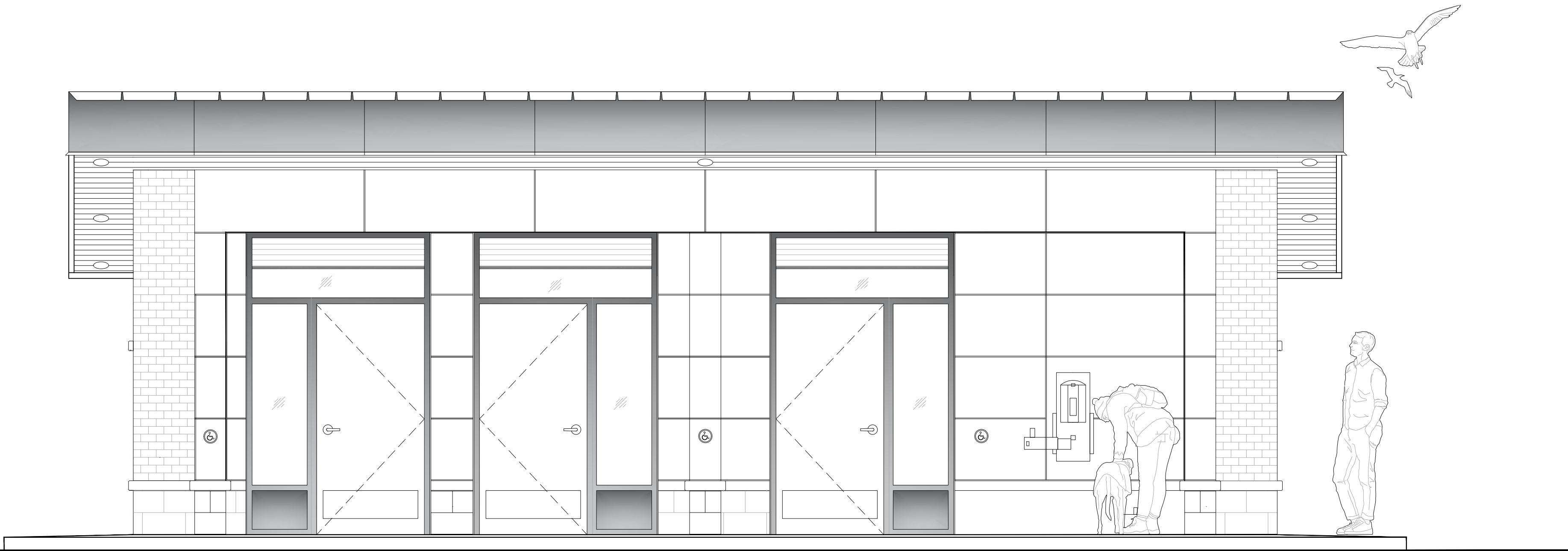




# NEW COMFORT STATION

## Huron Park Recreation Centre

830 PAISLEY BOULEVARD WEST, MISSISSUAGA, ON. L5C 4P1



### LANDSCAPE



Landscape Drawing List	
Sheet Number	Sheet Name
L-SP	SITE PLAN
L-L1	LANDSCAPE PLAN
L-D1	DETAIL SHEET

### ARCHITECTURAL



510 Rowntree Dairy Rd., Unit 3C  
Woodbridge, ON Canada L4L 8H2  
Tel. 416 855 2260  
www.cplusp.ca

Architectural Drawing List	
Sheet Number	Sheet Name
A002	GENERAL NOTES, OBC MATRIX & LEGENDS
A101	FLOOR PLAN, ROOF PLAN & RCP
A201	BUILDING ELEVATIONS & SECTIONS
A301	ENLARGED PLAN & INTERIOR ELEVATIONS
A401	WALL SECTIONS
A402	PLAN DETAILS

### ELECTRICAL



Foroud Rasti B., B.Eng, P.Eng  
Professional Engineering Design Services  
26 Cobblestone Crt  
Brampton, Ontario  
L6R 2S1  
justin@jengineering.ca  
jengineering.ca  
416-455-5254

Electrical Demolition Drawing List	
Sheet Number	Sheet Name
E100	ELECTRICAL LEGEND, NOTES, DETAILS AND SPECIFICATIONS
E101	NEW ELECTRICAL LAYOUT AND DETAILS
E102	ELECTRICAL SPECIFICATIONS

### CIVIL

BaseTech Consulting Inc.

328 Bayview Crescent  
North York, Ontario  
M2N 6L7  
Phone: (905) 251-7720  
e-mail: basetechconsulting@basetech.com

Civil Drawing List	
Sheet Number	Sheet Name
GR-1	GRADING PLAN
SS-1	SITE SERVICING PLAN
SS-2	SITE SERVICING PLAN

### MECHANICAL



T. Smith Engineering  
707 Kipling Ave. Toronto, ON. M8Z 5G4  
Tel: (416) 635 9970  
www.tsmithengineering.com

Mechanical Drawing List	
Sheet Number	Sheet Name
M001	MECHANICAL LEGEND, DRAWING LIST AND SPECIFICATIONS
M003	PLUMBING FIXTURES
M100	MECHANICAL NEW

### STRUCTURAL



2550 Victoria Park Ave. Suite 602  
Toronto ON M2J 5A9 | Tel: (416) 635 9970  
www.stephenson-eng.com | info@stephenson-eng.com

Structural Drawing List	
Sheet Number	Sheet Name
S1-01	PLANS
S2-01	SECTIONS
S3-01	GENERAL NOTES AND TYPICAL DETAILS
S3-02	GENERAL NOTES AND TYPICAL DETAILS
S3-03	TYPICAL DETAILS
S3-04	TYPICAL DETAILS
S3-05	TYPICAL DETAILS
S3-06	TYPICAL DETAILS

PROJ. No: 24 - 053

ISSUED FOR  
TENDER

OCT. 09, 2025

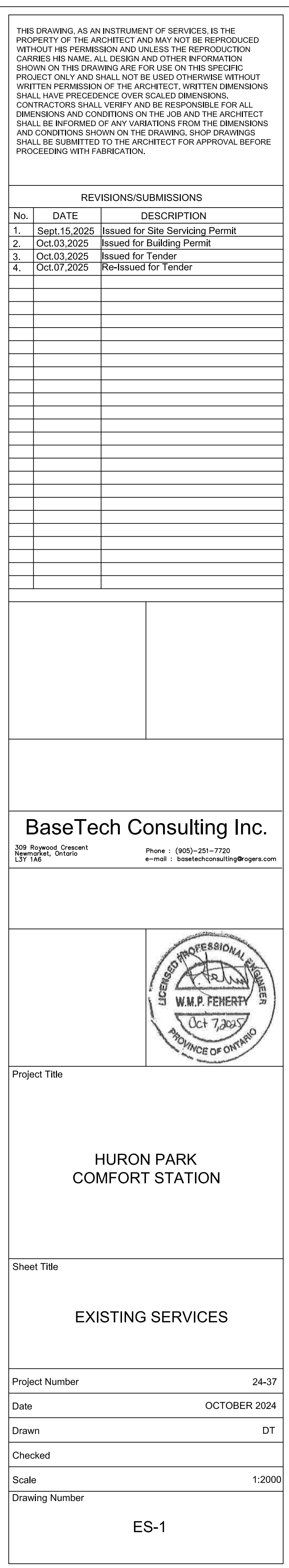
NEW COMFORT STATION

830 PAISLEY BOULEVARD WEST, MISSISSAUGA, ON. L5C 4P1

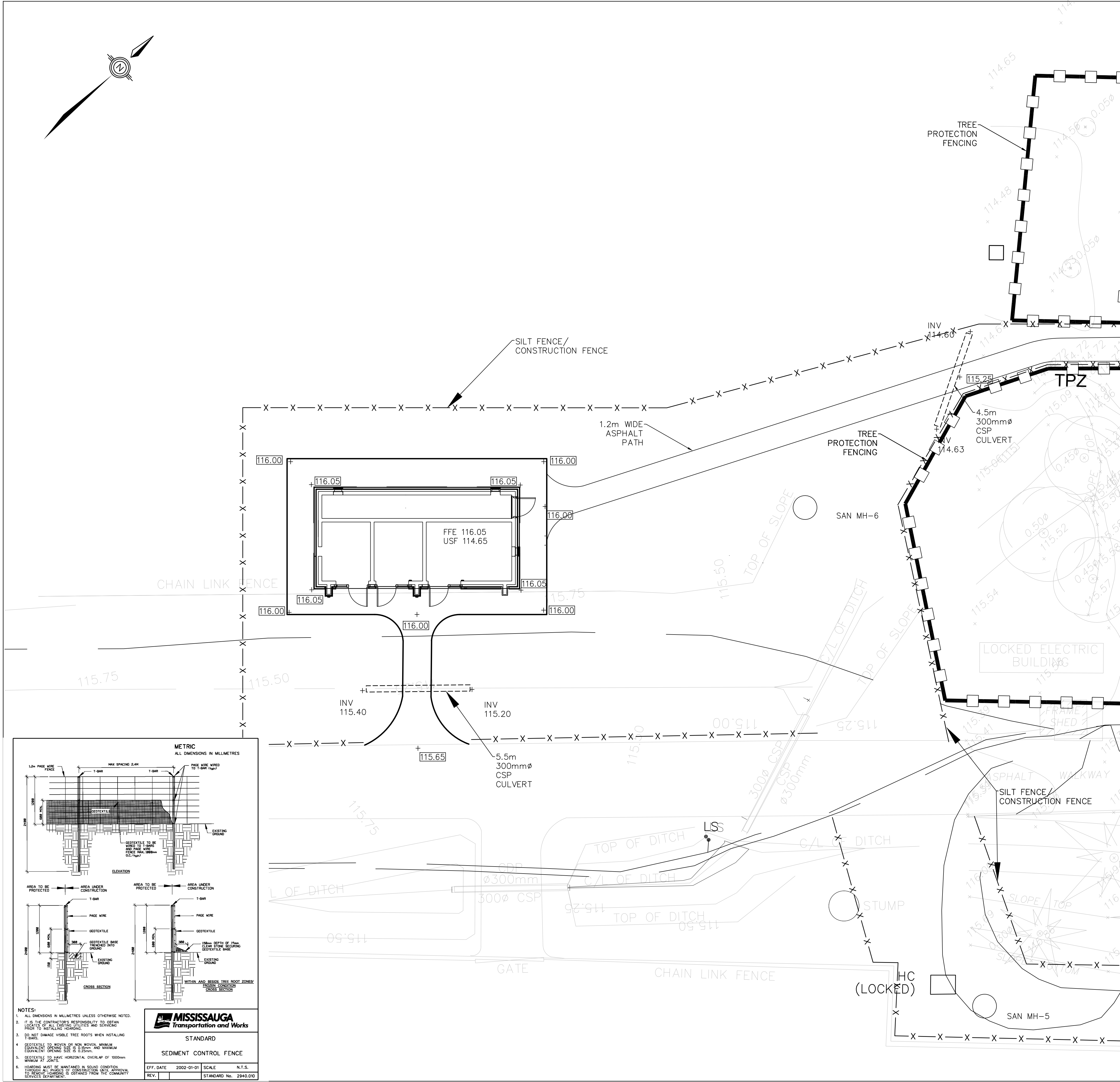


510 Rowntree Dairy Rd., Unit 3C  
Woodbridge, ON Canada L4L 8H2  
Tel. 416 855 2260  
www.cplusp.ca









PRIOR TO CONSTRUCTION OR STRIPPING OF TOPSOIL, THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE "GOOD HOUSEKEEPING" MEASURES TO MITIGATE THE TRANSPORTATION OF SILT FROM THE SITE. THESE MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- ### GRADING NOTES

1. ALL SURFACE DRAINAGE WILL BE SELF-CONTAINED, COLLECTED AND DISCHARGED AT A LOCATION TO BE APPROVED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
2. ALL EXCESS EXCAVATED MATERIAL WILL BE REMOVED FROM THE SITE.
3. THE EXISTING DRAINAGE PATTERN WILL BE MAINTAINED EXCEPT WHERE NOTED.
4. THE APPLICANT WILL BE REQUIRED TO CONTACT ALL UTILITY COMPANIES TO OBTAIN ALL REQUIRED LOCATES PRIOR TO THE INSTALLATION OF HOARDING WITHIN THE MUNICIPAL RIGHT-OF-WAY.
5. THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF ANY UTILITY RELOCATIONS NECESSITATED BY THE SITE PLAN.
6. PRIOR TO COMMENCING CONSTRUCTION, ALL REQUIRED HOARDING, IN ACCORDANCE WITH ONTARIO OCCUPATIONAL HEALTH & SAFETY ACT IN REGULATIONS FOR CONSTRUCTION PROJECTS, MUST BE ERECTED AND THEN MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.

[illegible]

HURON PARK  
COMFORT STATION

## GRADING PLAN

24-37

OCTOBER 2024

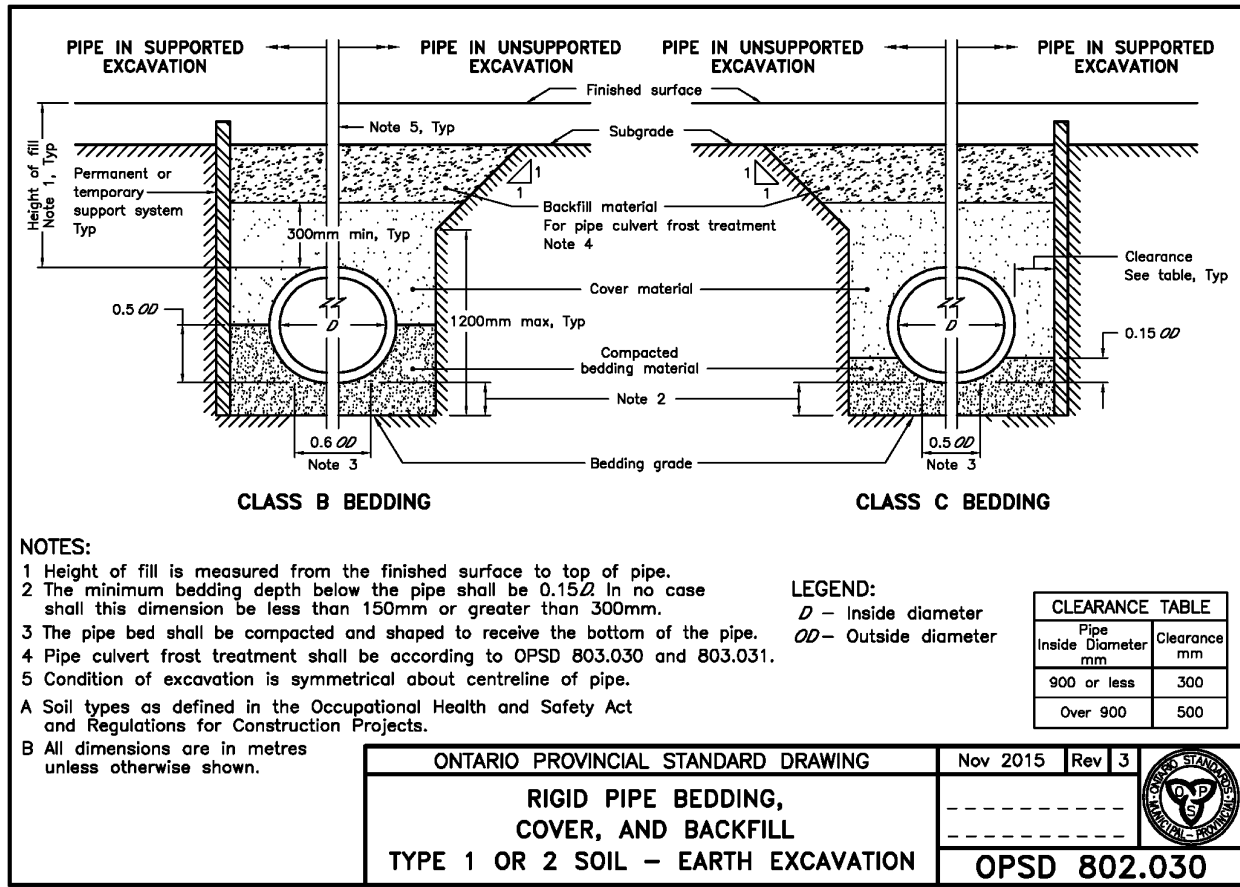
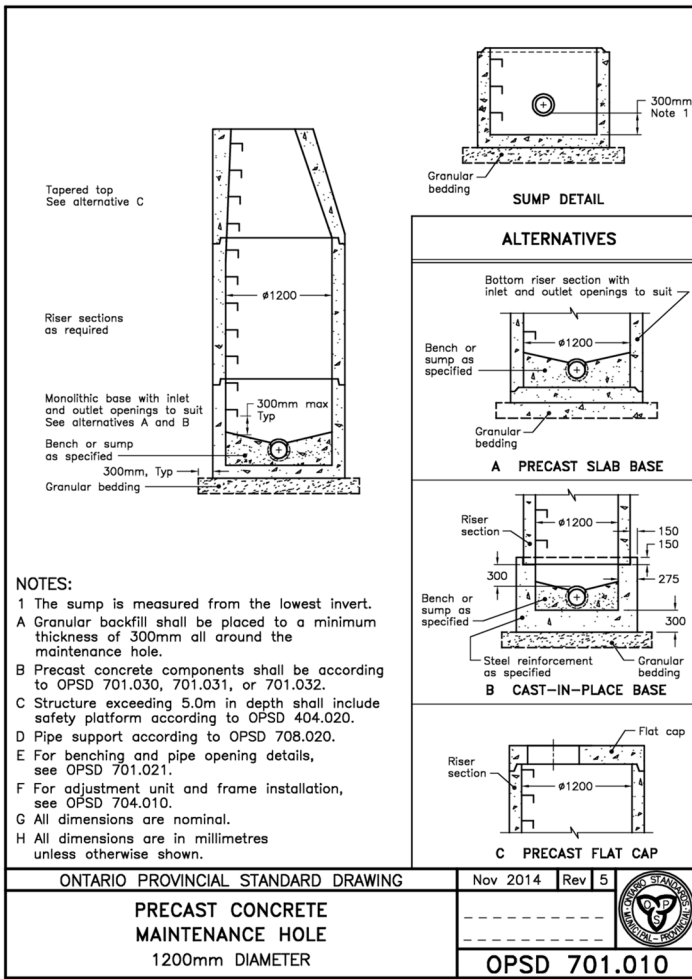
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GR-1



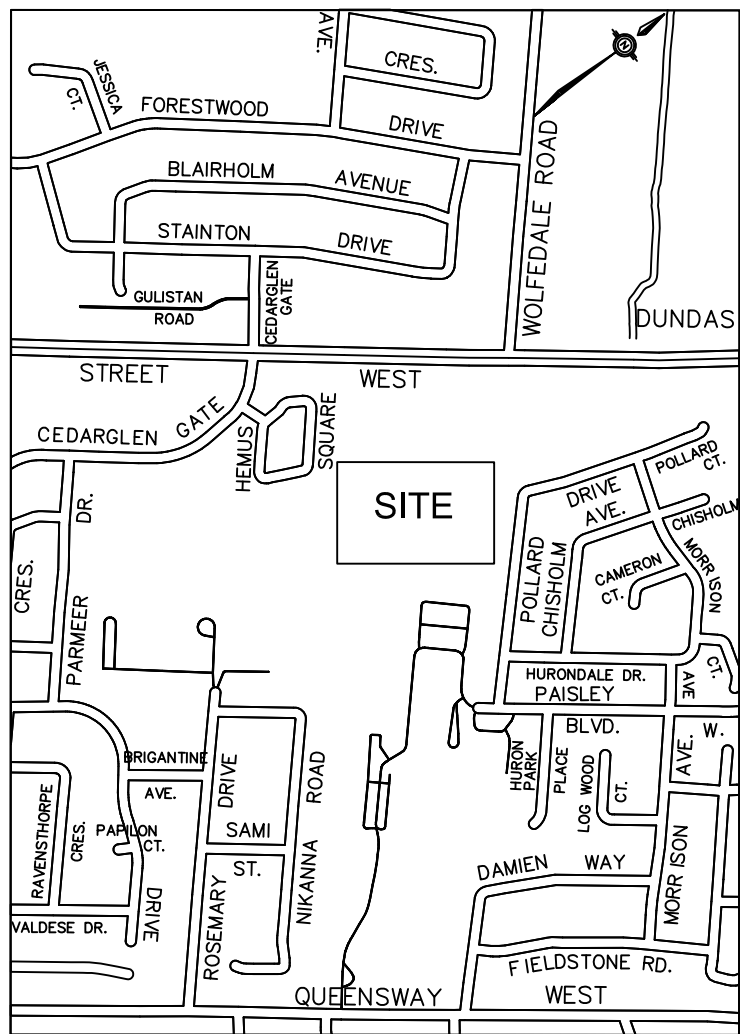


Region of Peel Notes:

- Public and private services, appurtenances, materials and construction methods must comply with the most current Region of Peel standards and specifications, the Local Municipality's requirements for the Ontario Building Code and Ontario Provincial Standards. All work shall adhere to all applicable legislation, including Regional by-laws.
- Watermain and/or water service materials 100 mm (4") and larger must be **PVC DR18** constructed as per **AWWA C900-16**. Size 50 mm (2") and smaller must be **Polyethylene** constructed as per **AWWA C901** and **CSA B.137.10**.
- Watermains and/or water services are to have a minimum cover of 1.7 m (5'6") with a minimum horizontal spacing of 1.2 m (4') from themselves and all other utilities.
- Provisions for flushing water line prior to testing, etc., must be provided with at least a 50 mm (2") outlet on 100 mm (4") and larger lines. Copper lines are to have flushing points at the end, the same size as the line. They must also be hosed or piped to allow the water to drain onto a parking lot or down a drain. On fire lines, flushing outlet to be 100 mm (4") diameter minimum on a hydrant.
- All curb stops to be 3.0 m (10') off the face of the building unless otherwise noted.
- Hydrant and valve set to Region standard 1 - 6 - 1 Dimension A and B, 0.7 m (2') and 0.9 m (3') and to have pumper nozzle.
- Watermains to be installed to grades as shown on approved site plan. Copy of grade sheet must be supplied to inspector prior to commencement of work, where requested by inspector.
- Watermains must have a minimum vertical clearance of 0.3 m (12") over 0.5 m (20") under sewers and all other utilities when crossing.
- All proposed water piping must be isolated from existing lines in order to allow independent pressure testing and chlorinating from existing systems.
- All live tapping and operation of Region water valves shall be arranged through the Regional Inspector assigned or by contacting the Operations and Maintenance Division.
- Location of all existing utilities in the field to be established by the contractor.
- The contractor(s) shall be solely responsible for locating, exposing, supporting and protecting off all underground and overhead utilities and structures existing at the time of construction in the area of their work. Whether shown on the plans or not and for all repairs and consequences resulting from damage to same.
- The contractor(s) shall be solely responsible to give 72 hours written notice to the utilities prior to crossing such utilities, for the purpose of inspection by the concerned utility. This inspection will be for the duration of the construction, with the contractor responsible for all cost arising from such inspection.
- All proposed water piping must be isolated through a temporary connection that shall include an appropriate cross-connection control device, consistent with the degree of hazard, for backflow prevention of the active distribution system, conforming to Region of Peel standards 1-7-7 or 1-7-8.
- All water meters must be installed in heated and accessible spaces.
- Proposals to connect to an existing service lateral requires approval from the Region of Peel inspector at construction stage.

SANITARY SEWERS

- ALL PVC GRAVITY SEWER PIPE SHALL CONFORM TO CSA SPECIFICATION B182.1 OR B182.2 (OR MOST RECENT REVISION) DR 35 WITH "LOCK-IN" RUBBER SEALING RING.
- ALL SEWER CONNECTIONS TO MANHOLES SHALL BE DONE BY MEANS OF A PVC MANHOLE ADAPTER.
- THE BEDDING MATERIAL SHALL EXTEND TO 300 MM ABOVE THE PIPE AND COMPACTION TESTS ARE REQUIRED BEFORE THE TRENCH IS BACKFILLED.
- BACKFILL TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY.
- MANHOLES TO BE STANDARD DRAWINGS OPSD 701.010 TO 701.015 (INCLUSIVE) ALL SANITARY MANHOLES TO BE PRE-BENCHED MONOLITHIC BASE, WITH SEALED CONNECTIONS FOR ALL PIPES.
- BEDDING - SEWER BEDDING TO BE TO STANDARD DRAWING OPSD 802.03, CLASS "B" (UNLESS OTHERWISE NOTED AND APPROVED).
- ALL UNDERGROUND SERVICES AND UTILITIES TO BE ACCURATELY LOCATED PRIOR TO THE START OF CONSTRUCTION.



THIS DRAWING, AS AN INSTRUMENT OF SERVICES, IS THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED WITHOUT HIS PERMISSION AND UNLESS THE REPRODUCTION CARRIES HIS NAME. ALL DESIGN AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THIS SPECIFIC PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF THE ARCHITECT. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWING. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

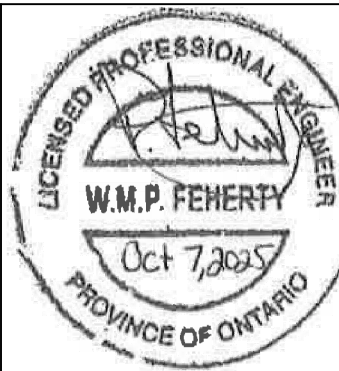
REVISIONS/SUBMISSIONS

No.	DATE	DESCRIPTION
1.	Dec.20, 2024	Issued for CVCA review
2.	Dec.20, 2024	Issued for Building Permit
3.	Jan.03,2025	Issued for Site Servicing Permit
4.	Jan.30,2025	Issued for Client Review-Pre-tender
5.	Mar.25,2025	Water service connection revised
6.	July 2,2025	Comfort Station location revised
7.	Sept.15,2025	Re-issued for Site Servicing Permit
8.	Oct.03,2025	Issued for Building Permit
9.	Oct.03,2025	Issued for Tender
10.	Oct.07,2025	Re-Issued for 1 tender

BaseTech Consulting Inc.

309 Roywood Crescent  
North York, Ontario  
M2N 6L6

Phone : (905)-251-7720  
e-mail : basetechconsulting@rogers.com



Project Title

HURON PARK  
COMFORT STATION

Sheet Title

SITE SERVICING  
DRAWING

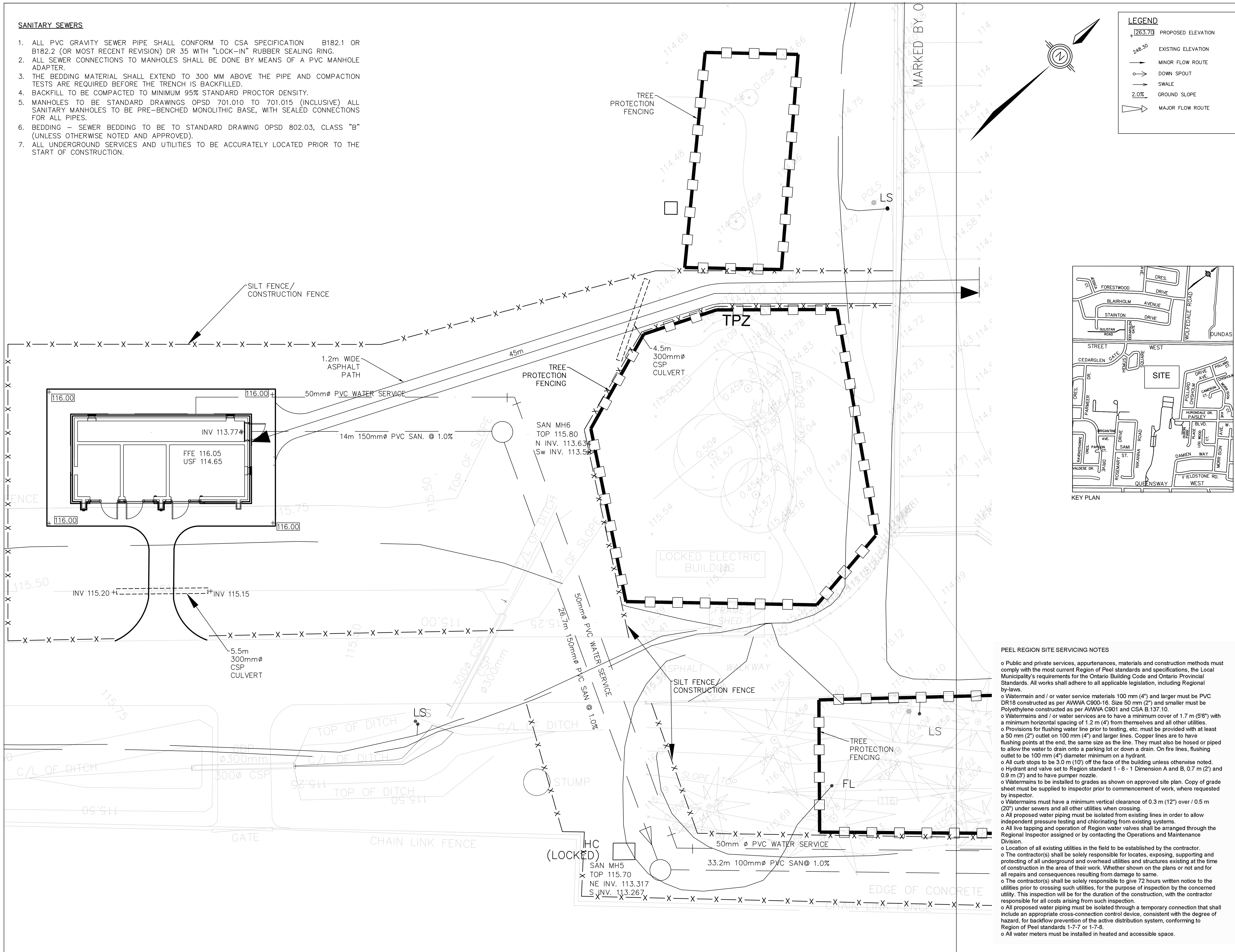
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Date	OCTOBER 2024
Drawn	NP
Checked	
Scale	1:500
Drawing Number	

SS-1

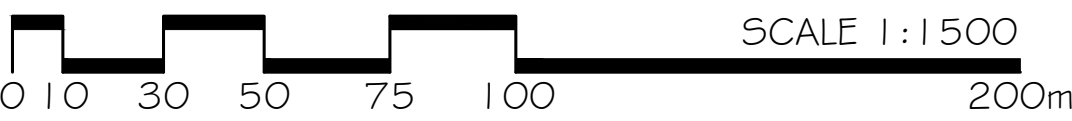
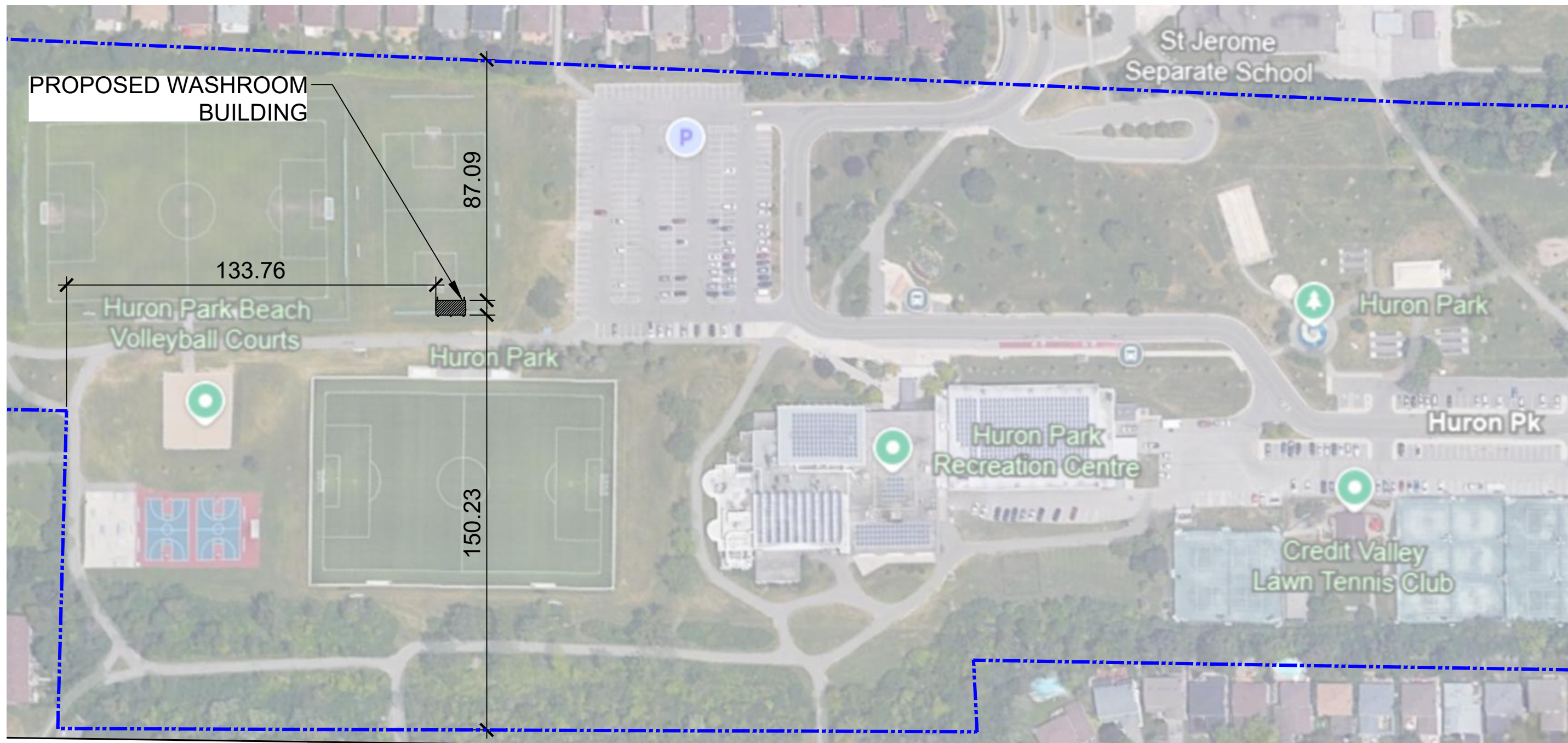
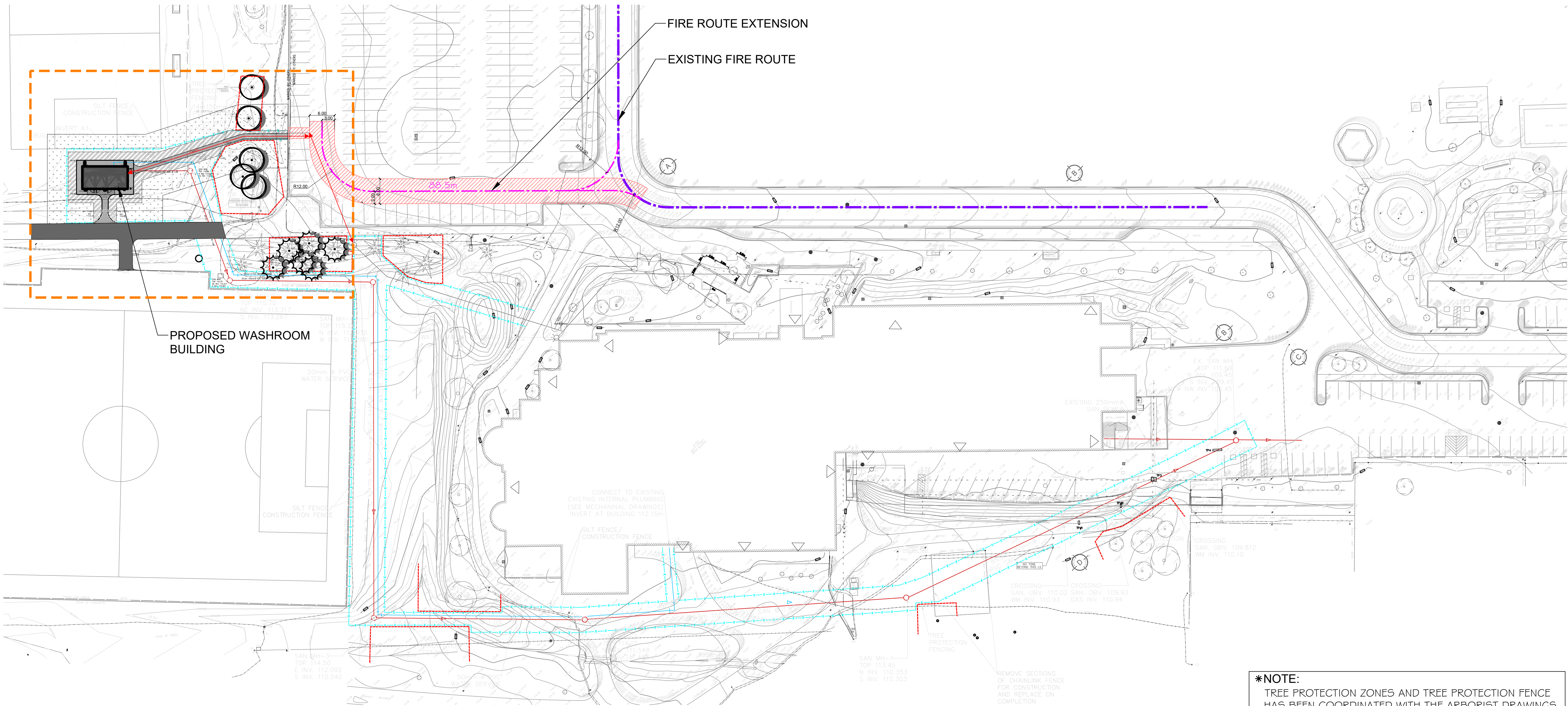


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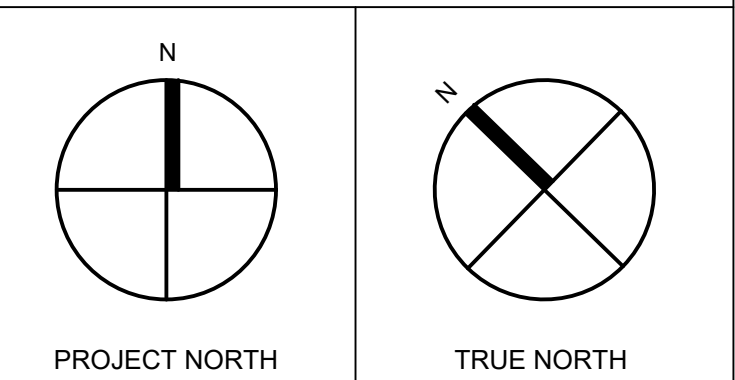
\*LEGEND:

- EXISTING TREES
- PROPOSED SHRUBS
- EXISTING PAVED WALKWAY
- PROPOSED CONCRETE APRON/ ASPHALT PAVING
- EXISTING LANDSCAPE AREA
- PROPOSED LANDSCAPE AREA
- PROPERTY LINE
- SILT FENCE
- TREE PROTECTION FENCE
- EXISTING FIRE ROUTE
- FIRE ROUTE EXTENSION (88.5M)

SITE STATISTICS					
ADDRESS: 830 Paisley Blvd W, Mississauga, ON L5C 3P5					
PROPOSED USE: Comfort Station at Huron Park					
	EXISTING		REQUIREMENT	REQUIRED	PROPOSED
TOTAL SITE AREA (sq.m.)	196152.9 m <sup>2</sup>	48.47 Ac.			387.5 m <sup>2</sup> 0.10 Ac.
BUILDING (N.F.A. = NET FLOOR AREA)					
PROPOSED					59.7 m <sup>2</sup>
FOOTPRINT (G.F.A.)	m <sup>2</sup>	0.0 Ft <sup>2</sup>			59.7 m <sup>2</sup> 0.01 Ac.
COVERAGE					15.4%
BUILDING SETBACKS					
FRONT LOT LINE					133.8 m
NORTH SIDE LOT LINE					87.1 m
SOUTH SIDE LOT LINE					150.2 m
REAR LOT LINE					
PARKING					
STANDARD SPACES					
ACCESSIBLE					
CHILDCARE STANDARD SPACES					
CHILDCARE ACCESSIBLE SPACES					
TOTAL SPACES					
LANDSCAPE					
AREA	m <sup>2</sup>	Ac.			211.8 m <sup>2</sup> 0.05 Ac.
COVERAGE					54.7%
HARDSCAPE					
AREA	m <sup>2</sup>	0.0 Ac.			116.0 m <sup>2</sup> 0.03 Ac.
COVERAGE					29.9%
SURFACE PARKING, DRIVEWAY, AND					
AREA	m <sup>2</sup>	0.0 Ac.			m <sup>2</sup> 0.00 Ac.
COVERAGE					0.0%

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REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
01	2024-11-18	ISSUED FOR 60% COSTING
02	2024-12-18	ISSUED FOR CVCA REVIEW
03	2025-01-30	ISSUED FOR CLIENT REVIEW - PRE TENDER
04	2025-09-10	ISSUED FOR SPA RESUBMISSION
05	2025-09-10	ISSUED FOR TREE INJURY/REMOVAL PERMIT
06	2025-10-03	ISSUED FOR BUILDING PERMIT
07	2025-10-08	ISSUED FOR TENDER



ARCHITECT

**Cellucci+Pace**  
ARCHITECTURE | PLANNING | PROJECT MANAGEMENT

510 Rowntree Dairy Rd. Unit 3C  
Woodbridge, ON Canada L4L 8H2  
Tel. 416 855 2260  
www.cplusp.ca



## COMFORT STATION HURON PARK

830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

Sheet Title

### SITE PLAN

Project Number 24-053

Date Oct. 2024

Drawn RN

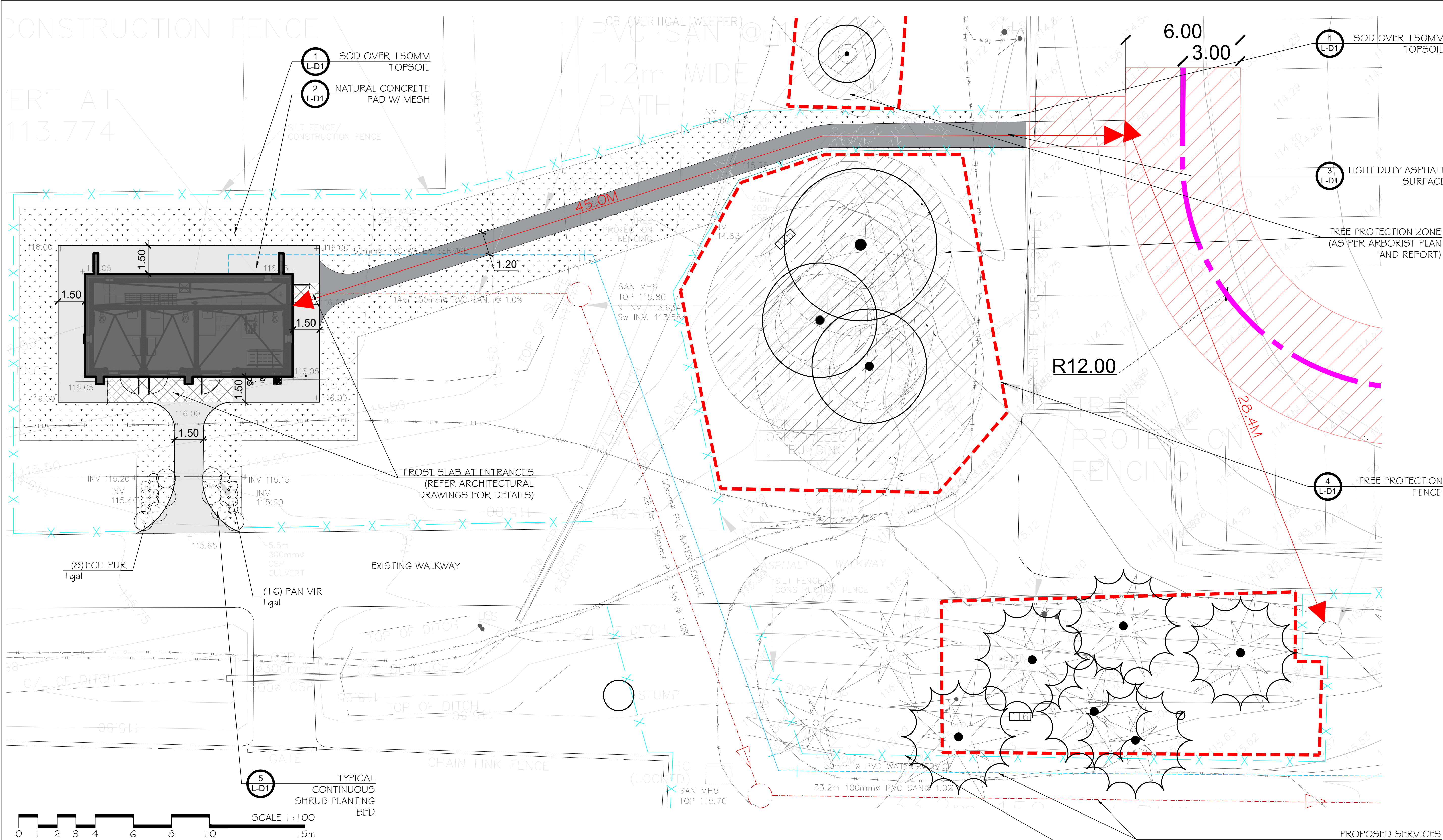
Checked KF

Scale 1:400

Drawing Number

**L-SP**





PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	REMARKS
SHRUBS						
ECH PUR	8	Echinacea purpurea	Coneflower	1 gal	Potted	
PAN VIR	16	Panicum virgatum	Switch Grass	1 gal	Potted	N/D

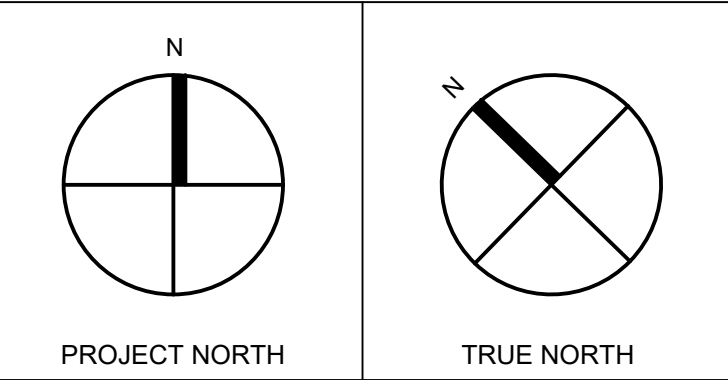
REFERENCE NOTES SCHEDULE NEW LOCATION

SYMBOL	DESCRIPTION	QTY	DETAIL
Asphalt Paving			
	Light Duty Asphalt	48.6 m <sup>2</sup>	3/L-D1
Concrete Paving			
	Concrete Paving with 150mm depth of 19mm Crusher Run Limestone	57.2 m <sup>2</sup>	2/L-D1
Fences and Gates			
	Tree Preservation Fence with Silt Cloth	327.3 m	4/L-D1
Turf & Grasses			
	Sod over 150mm Topsoil	211.8 m <sup>2</sup>	1/L-D1

**\*NOTE:**  
TREE PROTECTION ZONES AND TREE PROTECTION FENCE HAS BEEN COORDINATED WITH THE ARBORIST DRAWINGS.  
  
REFER TO THE ARBORIST REPORT FOR DETAILS ON TREE INJURY, REMOVAL, AND COMPENSATION.

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ARCHITECT  
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COMFORT STATION  
HURON PARK

830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1  
Sheet Title

LANDSCAPE PLAN

Project Number	24-053
Date	Oct. 2024
Drawn	RN
Checked	KF
Scale	1:75
Drawing Number	

L-L1







<div>Cellucci+Pace</div> <div>510 Rowntree Dairy Rd, Unit 3C Woodbridge, ON Canada L4L 8H2 Tel. 416 855 2260 www.cplup.ca</div>				
Name of Project: Huron Park - New Comfort Station				
Location: 830 Paisley Boulevard, Mississauga, ON. L5C 3P5				
Item	Ontario Building Code Data Matrix Parts 3 or 9		Building Code Reference	
			References are to Division B unless noted [A] for Division A or [C] for Division C.	
1	Project Description: <div><div><input checked="" type="checkbox"/> New <input checked="" type="checkbox"/> Part 11 <input type="checkbox"/> Part 9</div><div><input type="checkbox"/> Addition <input type="checkbox"/> 11.1 to 11.4</div><div><input type="checkbox"/> Change of Use <input type="checkbox"/> Alteration</div></div>	<input checked="" type="checkbox"/> Part 3	<input type="checkbox"/> Part 9	
		1.1.2. [A]	1.1.2. [A] & 9.10.1.3	
2	Major Occupancy(s) Group A Division 2	3.1.2.1.(1)	9.10.2.	
3	Building Area (m²) Existing N/A New 54.6 Total 54.6	1.4.1.2. [A]	1.4.1.2. [A]	
4	Gross Area Existing N/A New 54.6 Total 54.6	1.4.1.2. [A]	1.4.1.2. [A]	
5	Number of Storeys Above grade 1 Below grade 0	1.4.1.2. [A]&3.2.1.1.	1.4.1.2[A] & 9.10.4	
6	Number of Streets/Fire Fighter Access 1	3.2.2.10. & 3.2.5.	9.10.20.	
7	Building Classification 3.2.2.28 Group A Division 2, 1 Storey	3.2.2.20.-83	9.10.2.	
8	Sprinkler System Proposed <div><input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement : in lieu of roof rating <input checked="" type="checkbox"/> not required</div>	3.2.2.20.-83 3.2.1.5. 3.2.2.17. INDEX	9.10.8.2.   INDEX	
9	Standpipe required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.9.	N/A	
10	Fire Alarm required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.4.	9.10.18.	
11	Water Service/Supply is Adequate <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.5.7.	N/A	
12	High Building <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.6.	N/A	
13	Construction Restrictions <input type="checkbox"/> Combustible permitted <input checked="" type="checkbox"/> Non-combustible required <input type="checkbox"/> Both	3.2.2.20.-83	9.10.6.	
14	Actual Construction <input type="checkbox"/> Combustible <input checked="" type="checkbox"/> Non-combustible <input type="checkbox"/> Both	3.2.1.1.(3)-(8)	9.10.4.1.	
15	Occupant load based on <input checked="" type="checkbox"/> m²/person <input type="checkbox"/> design of building	3.1.1.7.	9.9.1.3.	
	Basement: Occupancy N/A Load _____ persons			
	1st Floor: Occupancy 5 Load _____ persons			
	2nd Floor: Occupancy N/A Load _____ persons			
	3rd Floor: Occupancy N/A Load _____ persons			
	( Additional floor areas continued on last page)			
16	Barrier-free Design <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain) _____	3.8.	9.5.2.	
17	Hazardous Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.3.1.2. & 3.3.1.19.	9.10.1.3(4)	

18	Required Fire Resistance Rating (FRR)	Horizontal Assemblies FRR (Hours)		Listed Design No. or Description (SG 7)	3.2.2.20. 3.3 & 3.2.1.4.	9.10.8. 9.10.9.
		Floors N/A Hours	N/A			
		Roof N/A Hours	N/A			
		Mezzanine N/A Hours	N/A			
		FRR of Supporting Members				
		Floors N/A Hours	N/A			
		Roof N/A Hours	N/A			
		Mezzanine N/A Hours	N/A			

19	Spatial Separation – Construction of Exterior Walls						3.2.3.●		9.10.14.●		
	Wall	Area of EBF (m²)	L.D. (m)	L/H or H/L	Permitted Max. % of Openings	Proposed % of Openings	FRR (Hours)	Listed Design or Description	Comb Const	Comb. Constr. Nonc. Cladding	Non Comb. Constr.
	North	N/A									
	South	N/A									
	East	N/A									
	West	N/A									

20	Plumbing Fixture Requirements				Building Code Reference	
	Male/Female Count <input type="checkbox"/> / <input type="checkbox"/> <small>except in retail stores</small>				<input type="checkbox"/> Part 3	<input type="checkbox"/> Part 9
					Occupant Load	BC Table Number
	Base mark: Occupancy _____					
	Occupancy _____					
	1 <sup>st</sup> Floor: Occupancy _____					
	Occupancy _____					
	2 <sup>nd</sup> Floor: Occupancy _____					
	Occupancy _____					
	3 <sup>rd</sup> Floor: Occupancy _____					
	Occupancy _____					
	(Adjust as Required for Additional Floors or Occupancies)					
21	Other (describe) _____					

15 (Occupant Load -Continued)			
_____ Floor	Occupancy _____	Load _____ persons	
_____ Floor	Occupancy _____	Load _____ persons	
_____ Floor	Occupancy _____	Load _____ persons	
_____ Floor	Occupancy _____	Load _____ persons	
_____ Floor	Occupancy _____	Load _____ persons	
_____ Floor	Occupancy _____	Load _____ persons	
_____ Floor	Occupancy _____	Load _____ persons	
_____ Floor	Occupancy _____	Load _____ persons	
_____ Floor	Occupancy _____	Load _____ persons	

ITEM	WASHROOM ACCESSORIES	MOUNTING HEIGHT (ABOVE FIN. FLR.)
TTD	TOILET PAPER DISPENSER	600mm A.F.F.
SND	SANITARY NAPKIN DISPOSAL	600mm A.F.F.
SNV	SANITARY NAPKIN VENDOR	900-1200mm A.F.F.
W	WALL MOUNTED SINKS	600mm A.F.F.
RH	ROBE HOOK	1200mm A.F.F.
MR1	MIRROR TYPE 1 (790X1220)	1000mm A.F.F.
GB	GRAB BAR	1050mm B.F. STANDARD (OBC)
RSO	RECESSED SOAP DISH (IN SHOWERS)	800mm A.F.F.
F	FOLDING SHOWER SEAT	460mm A.F.F.
HR-R	HAIR DRYER (RECESSED)	1800mm A.F.F.
SD	SOAP DISPENSER	1000mm TO PUSH BUTTON
SH	STEEL SHELF	1200mm TO PUSH BUTTON
		1100mm A.F.F.

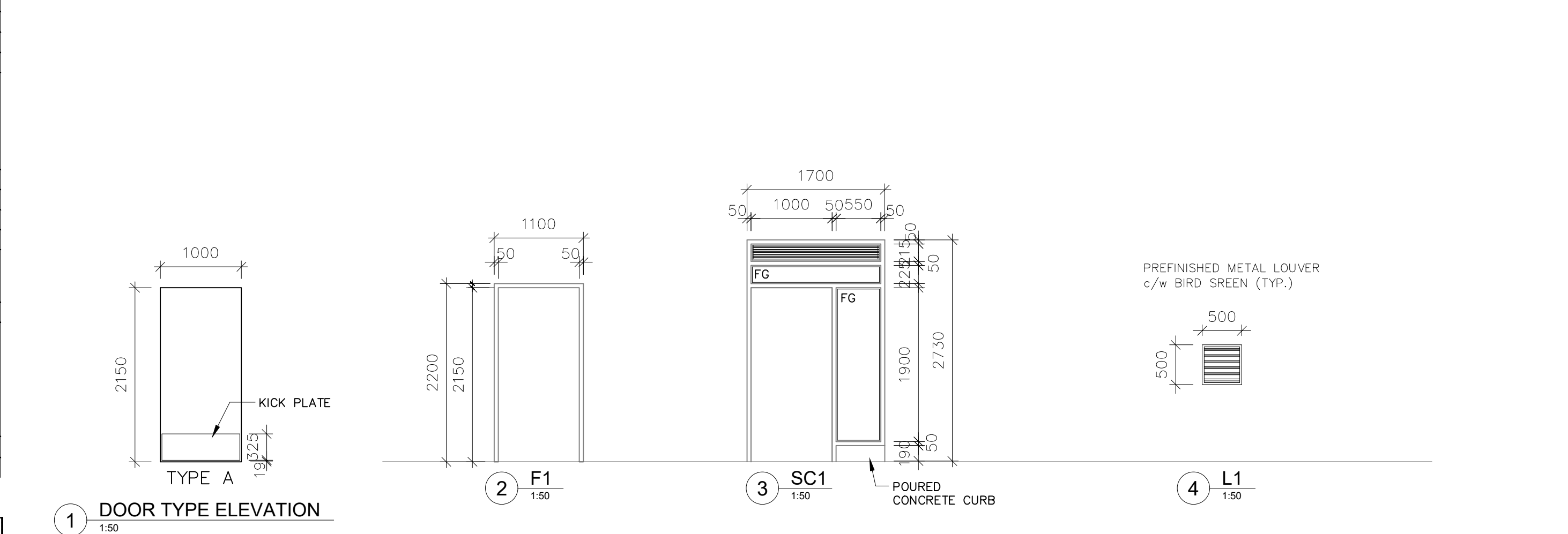
OBC NOTES:

1. THIS OBC PART 3 CODE MATRIX APPLIES TO NEW CONSTRUCTION

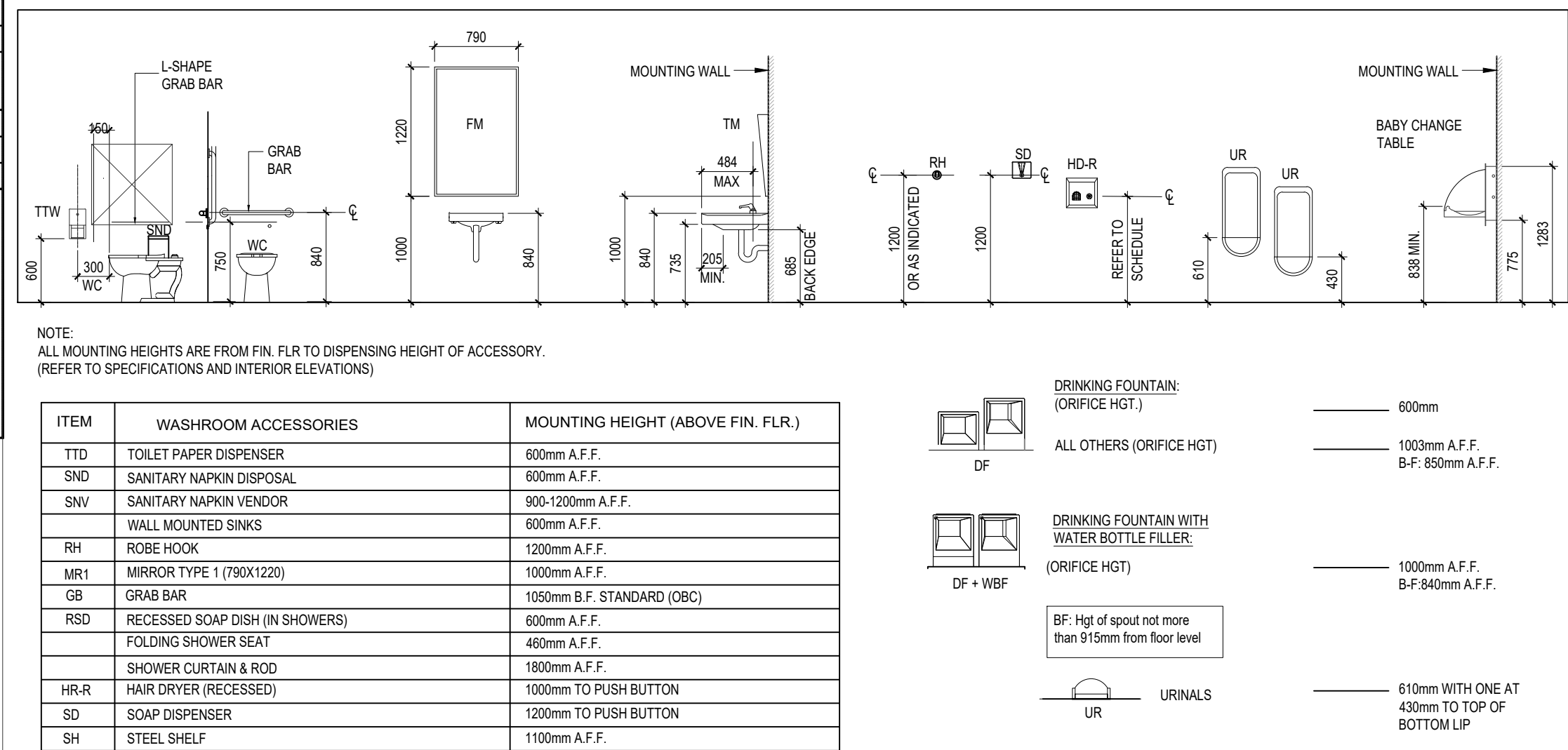
GENERAL NOTES:

1. FOR ALL

Door and Frame Schedule																	
Door Number	Door Type	Door Width	Door Height	Door Material Type	Door Finish Type	Glass Type (Door)	Frame Elevation Type	Fire Rating	Frame Width	Frame Height	Frame Depth	Frame Material Type	Frame Finish Type	Glass Type (Screen)	Jamb	Head	Comments
T/O FIN. GROUND FLOOR SLAB																	
100	1A	1000	2150	HM	PT	-	F1		1100	2200	146	HM	PT				FILL FRAMES SOLID W/ MORTAR, WEATHERSTRIPPING, THRESHOLD
101	1A	1000	2150	HM	PT	-	SC1		1700	2730	146	HM	PT	FG			HTD, FILL FRAMES SOLID W/ MORTAR, WEATHERSTRIPPING, THRESHOLD, BARRIER FREE DOOR OPERATOR
102	1A	1000	2150	HM	PT	-	SC1		1700	2730	146	HM	PT	FG			HTD, FILL FRAMES SOLID W/ MORTAR, WEATHERSTRIPPING, THRESHOLD, BARRIER FREE DOOR OPERATOR
103	1A	1000	2150	HM	PT	-	SC1		1700	2730	146	HM	PT	FG			HTD, FILL FRAMES SOLID W/ MORTAR, WEATHERSTRIPPING, THRESHOLD, BARRIER FREE DOOR OPERATOR
Room Finish Schedule																	
Number	Name			Floor Finish	Wall Base	Wall Material	Wall Finish	Ceiling Height	Ceiling Type	Ceiling Finish	Comments						
T/O FIN. GROUND FLOOR SLAB																	
101	ALL GENDER WASHROOM			SEALED	R	CB	PT	2550	EXP	-							
102	ALL GENDER WASHROOM			SEALED	R	CB	PT	2550	EXP	-							
104	UNIVERSAL WASHROOM			SEALED	R	CB	PT	2550	EXP	-							
102	UTILITIES			SEALED	R	CB	PT	2550	EXP	-							



1 DOOR TYPE ELEVATION



ITEM	WASHROOM ACCESSORIES	MOUNTING HEIGHT (ABOVE FIN. FLR.)
TTD	TOILET PAPER DISPENSER	600mm A.F.F.
SND	SANITARY NAPKIN DISPOSAL	600mm A.F.F.
SNV	SANITARY NAPKIN VENDOR	900-1200mm A.F.F.
W	WALL MOUNTED SINKS	600mm A.F.F.
RH	ROBE HOOK	1200mm A.F.F.
MR1	MIRROR TYPE 1 (790X1220)	1000mm A.F.F.
GB	GRAB BAR	1050mm B.F. STANDARD (OBC)
RSO	RECESSED SOAP DISH (IN SHOWERS)	800mm A.F.F.
F	FOLDING SHOWER SEAT	460mm A.F.F.
HR-R	HAIR DRYER (RECESSED)	1800mm A.F.F.
SD	SOAP DISPENSER	1000mm TO PUSH BUTTON
SH	STEEL SHELF	1200mm TO PUSH BUTTON
		1100mm A.F.F.

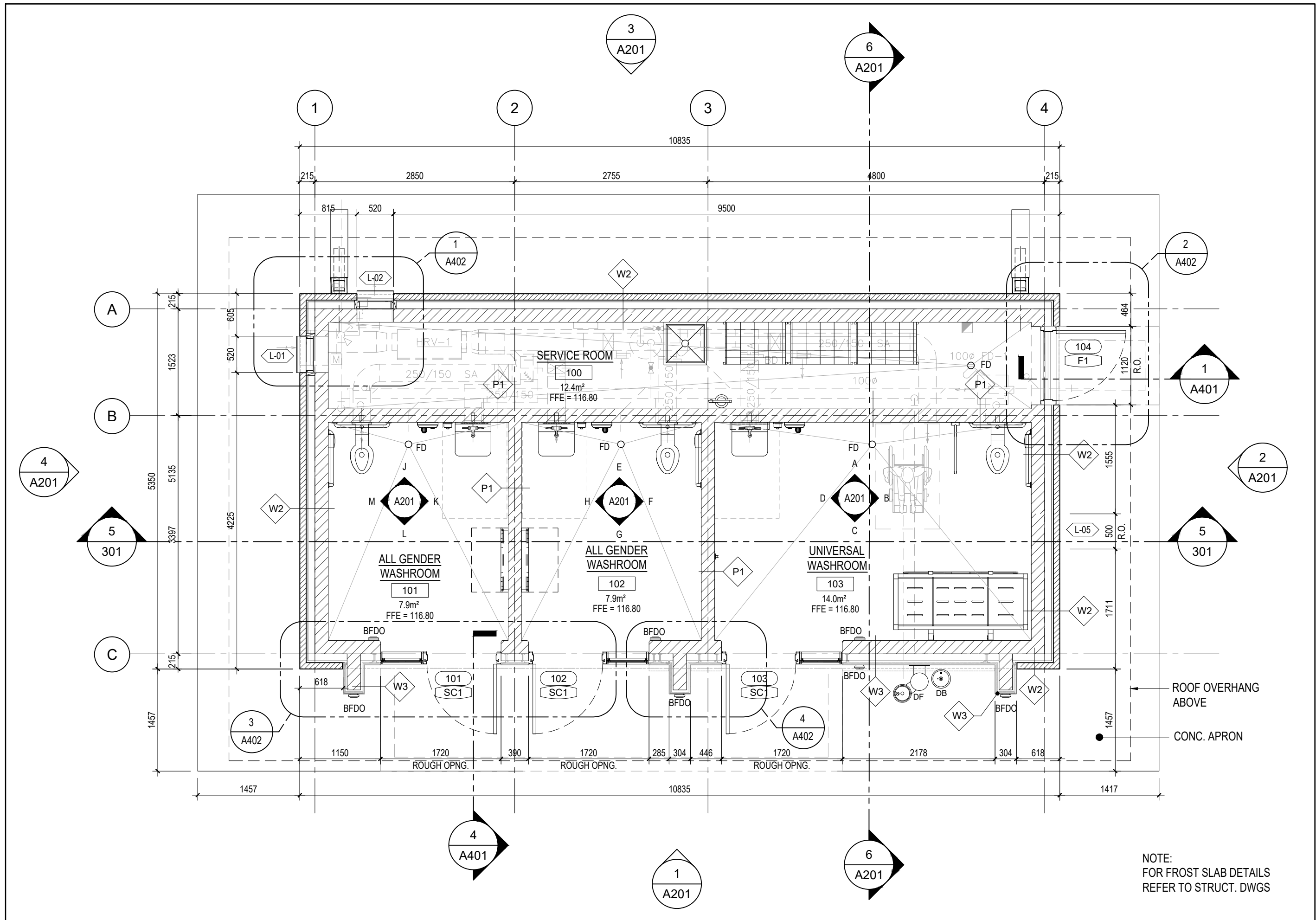
NOTE: ALL MOUNTING HEIGHTS ARE FROM FIN. FLR. TO DISPENSING HEIGHT OF ACCESSORY. (REFER TO SPECIFICATIONS AND INTERIOR ELEVATIONS)

LIST OF ABBREVIATIONS

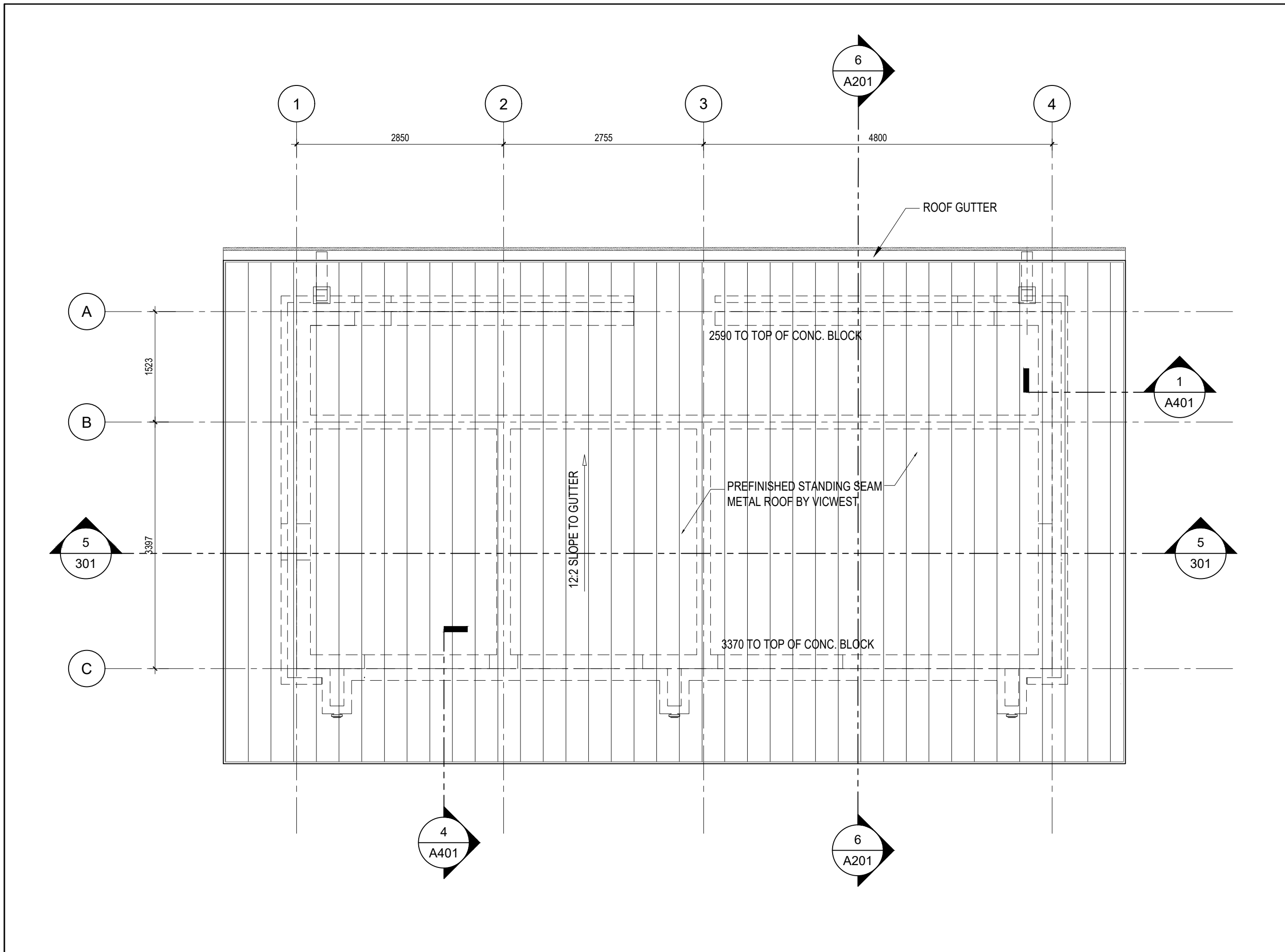
AA	ANODIZED ALUMINUM
AB	ARCHITECTURAL BLOCK
ACB	ACOUSTIC CONCRETE BLOCK
ACP	ALUMINUM COMPOSITE PANELS
AFC	ARCHITECTURALLY FINISHED POURED CONCRETE WALL
ALUM	ALUMINUM
ANOD	ANODIZED
BFD	BARRIER-FREE DOOR OPERATOR
BR	BRICK
CONC	CONCRETE
CB	CONCRETE BLOCK
CJ	MASONRY CONTROL JOINT
CP	CONTROL PANEL
CT	CERAMIC TILE
DF-WBF	DRINKING FOUNTAIN+BOTTLE FILLER
EF	EPOXY FLOORING
EP	ELECTRICAL POWER PANEL
EXP	EXPOSED STRUCTURE
EXT	EXTERIOR
GB	GYPSUM BOARD
GL	GLASS / GLAZING
HD	HAND DRYER
HD-R	HAND DRYER - RECESSED
HM	HOLLOW METAL
HTD	HIGH TRAFFIC DOOR
INSUL	INSULATION
LF	EXTERIOR LIGHT FIXTURE
LSD	LIQUID SOAP DISPENSER
MTL	METAL
MIP	METAL INSULATED PANEL
MR1	METAL PANEL
MIR	MIRROR
PCS	PRECAST CONCRETE SILL
PLAM	PLASTIC LAMINATE
PMC	PREFINISHED METAL CLADDING
PMF	PREFINISHED METAL FLASHING
PSS	PAINTED STRUCTURAL STEEL
PT	PAIN
R	RESILIENT BASE
RTU	ROOF TOP UNIT
S	STAIN
SCF	SEALED CONCRETE FLOOR
SB	STRUCTURAL BRICK
SD	SCUPPER DRAIN
SL	SIDE LITE
SND	SANITARY NAPKIN DISPENSER
STV	STAIN AND VARNISH
TG	TEMPERED GLAZING
TD	TOILET TISSUE DISPENSER
UR	URINAL
VP	VISION GLAZING (INSULATED ON EXTERIOR)
WC	WATER CLOSET (TOILET FIXTURE)
WMS	WALL MOUNTED SINK
WPF	WATER-PROOFING FLOORING

FIRE SEPARATION LEGEND		EXTERIOR WALL TYPES	
<p>GENERAL NOTE: ALL COLUMNS SUPPORTING A FLOOR OR FUTURE FLOOR ASSEMBLY TO HAVE A FIRE RESISTANCE RATING OF 1 HOUR. RATING PROVIDED BY LIGHTWEIGHT CONCRETE BLOCK, POURED CONCRETE, OR FIRE RATED GYPSUM BOARD FROM SLAB ON GRADE TO DECK ABOVE. FLUTES OF DECK AT FIRE SEPARATIONS TO BE PROTECTED AS PER ULC DESIGN # HW21 (IF APPLICABLE) PRECAST CONCRETE SLABS AND POURED CONCRETE TOPPING STRUCTURE OF 2ND FLOOR ASSEMBLY TO HAVE A 1 HOUR FIRE RESISTANCE RATING WITH 1 HR SPRAY FIRE PROOFING ON ALL SUPPORTING STEEL BEAMS</p>		<p>W1 EXTERIOR WALL CONSTRUCTION: (405mm)</p> <ul style="list-style-type: none"><li>- SPLIT FACE ARCHITECTURAL BLOCK VENEER BY SHOULDRICE</li><li>- SIZE: 90mm THICK x 190mm HIGH x 390mm LONG, (STACKED BOND) ALTERNATE COURSING COLOUR: ROCKSTONE GREY</li><li>- 25mm AIR SPACE CAVITY</li><li>- 100mm SPRAY FOAM INSULATION (SEE NOTE 2)</li><li>- SELF-ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS</li><li>- 190mm CONCRETE BLOCK BACK-UP</li></ul>	
<p>XX XX THE CORRIDOR WALLS ARE FIRE SEPARATIONS HOWEVER THE FIRE RESISTANCE RATING IS WAIVED SINCE IT IS A SPRINKLERED BUILDING. THEY WILL BE A SMOKE BARRIERS.</p>		<p>W2 EXTERIOR WALL CONSTRUCTION: (405mm)</p> <ul style="list-style-type: none"><li>- CLAY BRICK VENEER BY MERIDIAN</li><li>- SIZE: 90mm THICK x 57mm HIGH x 290mm LONG SOLDIER COURSING COLOUR: IRONSPOT</li><li>- 25mm AIR SPACE CAVITY</li><li>- 100mm SPRAY FOAM INSULATION (SEE NOTE 2)</li><li>- LOW PERMEANCE, SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS</li><li>- 190mm CONCRETE BLOCK BACK-UP</li></ul>	
<p>0 HR INDICATES 0HR. FIRE SEPARATION</p>		<p>W3 EXTERIOR PANELIZED WALL SYSTEM:</p> <ul style="list-style-type: none"><li>- PREFINISHED METAL COMPOSITE CLADDING PANELS - ALPOLIC</li><li>- 100mm Z-GIRTS INSTALLED HORIZONTALLY</li><li>- 100mm SPRAY FOAM INSULATION (SEE NOTE 2)</li><li>- SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS</li><li>- 190mm CONCRETE BLOCK BACK-UP</li></ul>	
<p>INDICATES MIN. 30 MIN. FIRE SEPARATION</p>		<p>W3a EXTERIOR PANELIZED WALL SYSTEM:</p> <ul style="list-style-type: none"><li>- PREFINISHED METAL COMPOSITE PANELS ALPOLIC</li><li>- 12mm EXTERIOR GRADE PLYWOOD BASE</li><li>- 92mm METAL STUD FRAMING SYSTEM</li><li>- 100mm SPRAY FOAM INSULATION (SEE NOTE 2)</li><li>- SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS</li><li>- 190mm CONCRETE BLOCK BACK-UP</li></ul>	
<p>INDICATES MIN. 1HR. CONCRETE BLOCK FIRE SEPARATION UNLESS NOTED OTHERWISE</p>		<p>WALL TYPE TYPICAL NOTES:</p> <ol style="list-style-type: none"><li>1. REFER TO PLANS AND ELEVATIONS</li><li>2. ALL VOIDS AND CAVITIES</li></ol>	
<p>↑ TD TRAVEL DISTANCE</p>		<p>INTERIOR WALL TYPES</p>	
<p>25 OCCUPANT LOAD</p>		<p>P1 P1 - INTERIOR CONCRETE BLOCK PARTITION: 190mm CONCRETE BLOCK</p>	
<p>EXIT CAPACITY ≈ 280</p> <p>SUM OF THE TOTAL ALLOWABLE EXIT CAPACITY BASED ON THE EXIT WIDTH</p>		<p>CEILING TYPES</p>	
<p>PATH OF TRAVEL TO DETERMINE EXIT CAPACITY.</p>		<p>C1 1000 INTERIOR CEILING</p> <ul style="list-style-type: none"><li>- PREFINISHED METAL CLADDING, BELLARA MOUNTAIN CEDAR BY VICWEST</li><li>- METAL FURRING CHANNELS @ 600 O/C</li><li>- 92mm METAL STUD FRAMING SYSTEM @ 1200mm (MAX.) O/C BRACED TO UNDERSIDE OF STRUCTURE</li></ul>	
<p>GENERAL NOTE (INTUMESCENT PAINT ON LINTELS): 3.2.2.3. EXCEPTIONS TO STRUCTURAL FIRE PROTECTION RE: INTUMESCENT PAINT ON LINTELS (1) FIRE PROTECTION IS NOT REQUIRED FOR:</p> <p>(a) STEEL LINTELS ABOVE OPENING NOT MORE THAN 2m WIDE IN LOADBEARING WALLS AND NOT MORE THAN 3m WIDE IN NON-LOADBEARING WALLS.</p> <p>(b) STEEL LINTELS ABOVE OPENINGS MORE THAN 2m WIDE AND MORE THAN 3m WIDE IN NON-LOADBEARING WALLS PROVIDED THE LINTELS ARE SUPPORTED AT INTERVALS OF NOT MORE THAN 2m BY STRUCTURAL MEMBERS WITH THE REQUIRED FIRE RESISTANCE RATING.</p> <p>(c) THE BOTTOM FLANGES OF SHELF ANGLES AND PLATES THAT ARE NOT PART OF THE STRUCTURAL FRAME.</p> <p>(d) STEEL MEMBERS FOR FRAMEWORK AROUND ELEVATOR HOISTWAY DOORWAYS. STEEL FOR THE SUPPORT OF ELEVATOR AND DUMBWATER GUIDES, COUNTERWEIGHTS AND OTHER SIMILAR EQUIPMENT, THAT ARE ENTIRELY ENCLOSED IN A HOISTWAY AND ARE NOT PART OF THE STRUCTURAL FRAME OF THE BUILDING, AND</p> <p>(e) STEEL MEMBERS OF STAIRWAYS AND ESCALATORS THAT ARE NOT PART OF THE STRUCTURAL FRAME OF A BUILDING.</p>		<p>C2 1000 EXTERIOR METAL SOFFIT (PMS-1)</p> <ul style="list-style-type: none"><li>- PREFINISHED METAL CLADDING, BELLARA MOUNTAIN CEDAR BY VICWEST</li><li>- METAL FURRING CHANNELS @ 600 O/C</li><li>- 12.7mm CEMENT BOARD BRACED TO UNDERSIDE OF STEEL ROOF STRUCTURE</li></ul>	
SYMBOL LEGEND		FLOOR FINISH TYPES	
<p>B1 DOOR NUMBER AND FRAME ELEVATION TYPE (SEE DOOR SCHEDULE)</p>		<p>FL1 TROWEL EPOXY FLOOR (TEF) REFER TO SPECS.</p>	
<p>DOTTED LINES INDICATES DOOR TO HAVE BARRIER FREE DOOR OPERATOR</p>		<p>FL2 SEALED CONCRETE FLOOR (SCF) REFER TO SPECS.</p>	
<p>CW001 EXTERIOR WINDOW REFERENCE</p>		<p>ROOF TYPES</p>	
<p>M1 MILLWORK REFERENCE</p>		<p>R1 ROOF TYPE - R1</p> <p>FROM TOP TO BOTTOM:</p> <ul style="list-style-type: none"><li>- PREFINISHED STANDING SEAM STEEL ROOFING, BY VICWEST</li><li>- 16mm EXTERIOR PLYWOOD SHEATHING</li><li>- 2 LAYERS - 50mm RIGID POLYISO ROOF INSULATION</li><li>- SELF ADHESIVE AIR/VAPOUR BARRIER (REFER TO SPECS)</li><li>- 16mm EXTERIOR PLYWOOD SHEATHING</li><li>- 38mm STRUCTURAL STEEL DECK ON</li><li>- STEEL ROOF STRUCTURE (REFER TO STRUCT. DWGS.)</li></ul>	
<p>13 INTERIOR ELEVATION REFERENCE:</p> <p>12 14 REFERENCE NUMBER</p> <p>15 SHEET NUMBER</p>		<p>EXTERIOR FINISHES</p>	
MATERIALS LEGEND		<p>B1 CLAY BRICK 900 x 57H x 290L CLAY BRICK BY MERIDIAN COLOUR: DUNKERRON IRONSPOT</p> <p>AB1 ARCHITECTURAL BLOCK 90 THICK x 190 HIGH x 390mm SPLIT FACE ARCHITECTURAL BLOCK BY SHOULDRICE COLOUR: ROCKSTONE GREY, FINISH: TAPESTRY</p> <p>PMS-1 PREFINISHED METAL SIDING HORIZONTAL METAL SIDING BELLARA BY VICWEST COLOUR: MOUNTAIN CEDAR FINISH: WOODGRAIN</p> <p>PMC PREFINISHED EXTERIOR METAL CLADDING PREFINISHED ALPOLIC METAL COMPOSITE PANELS COLOUR: MATCH EXISTING ON THE RECREATION BUILDING</p> <p>PMF PREFINISHED METAL FLASHING COLOUR: DARK BROWN</p> <p>PMS-1 EXTERIOR METAL SOFFIT &amp; FASCIA PREFINISHED METAL SOFFIT BELLARA BY VICWEST COLOUR: MOUNTAIN CEDAR FINISH: WOODGRAIN</p> <p>VP-1 VISION PANEL 1 CLEAR GLAZING</p> <p>P1 PAINT 1 ORANGE COLOUR PAINT</p> <p>P2 PAINT 2 DARK BLUE COLOUR PAINT</p> <p>P3 PAINT 3 YELLOW COLOUR PAINT</p> <p>P4 PAINT 4 LIGHT BLUE COLOUR PAINT</p> <p>P5 PAINT 5 DARK BROWN COLOUR PAINT</p> <p>PCC PRECAST CONCRETE CAP</p> <p>PCS-1 PRECAST CONCRETE SILL BELOW WINDOWS</p> <p>PCS-2 PRECAST CONCRETE SURROUND</p>	
AB	ARCHITECTURAL BLOCK		
CFI	CONCRETE FACED INSULATED WALL PANEL STYROFOAM W/ CONCRETE FACING )		
MCP	METAL COMPOSITE PANEL - ALPOLIC		
PMS-1	PREFINISHED METAL SIDING AD300-SR HORIZONTAL WALL CLADDING WEATHER XL FINISH COLOR GREY BERRY 55090 BY VICWEST		
PMS-2	PREFINISHED METAL SIDING BELLARA MOUNTAIN CEDAR 18-2772 BY VICWEST		
RG	RATED GLAZING		
SP-1	SPANDREL PANEL 1 BACKPAINTED GLASS #2-4150 TRANQUILITY		
SP-2	SPANDREL PANEL 2 BACKPAINTED GLASS #0-2008 CRYSTALLINE		
SP-3	SPANDREL PANEL 3 BACKPAINTED GLASS #0-2007 REFINED		
VP	VISION PANEL (CLEAR GLAZING)		

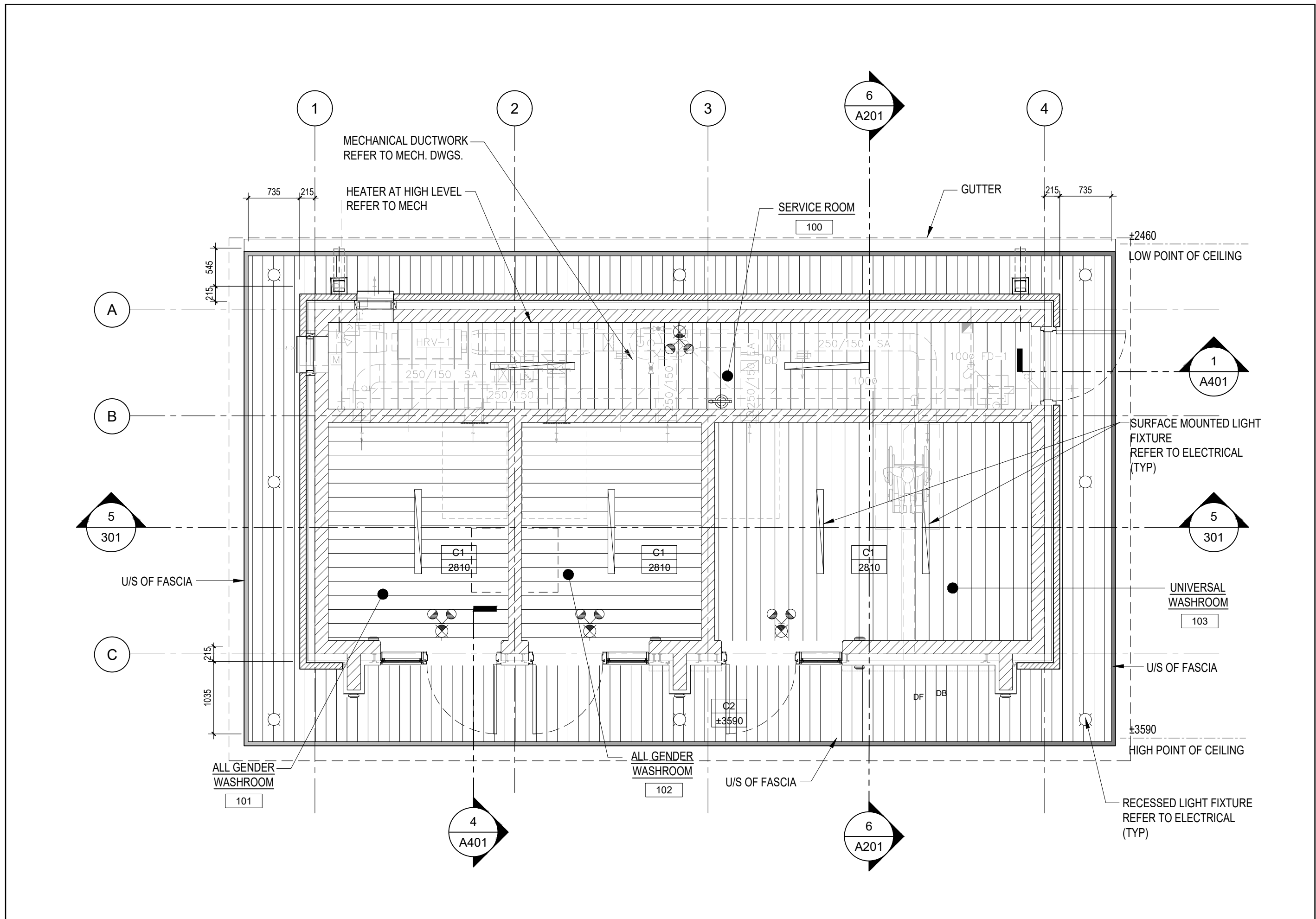




1 FLOOR PLAN  
SCALE 1:50



2 ROOF PLAN  
SCALE 1:50



3 REFLECTED CEILING PLAN  
SCALE 1:50

CEILING TYPES	
C1 1000	INTERIOR CEILING PREFINISHED METAL CLADDING, BELLARA MOUNTAIN CEDAR BY VIOWEST METAL FURRING CHANNELS @ 600 O/C 92mm METAL STUD FRAMING SYSTEM @ 1200mm (MAX.) O/C BRACED TO UNDERSIDE OF STRUCTURE
C2 1000	EXTERIOR METAL SOFFIT (PMS-1) PREFINISHED METAL CLADDING, BELLARA MOUNTAIN CEDAR BY VIOWEST METAL FURRING CHANNELS @ 600 O/C 12.7mm CEMENT BOARD BRACED TO UNDERSIDE OF STEEL ROOF STRUCTURE
FLOOR FINISH TYPES	
FL1	TROWEL EPOXY FLOOR (TEF) REFER TO SPECS.
FL2	SEALED CONCRETE FLOOR (SCF) REFER TO SPECS.
ROOF TYPES	
R1	ROOF TYPE - R1 FROM TOP TO BOTTOM: - PREFINISHED STANDING SEAM STEEL ROOFING, BY VIOWEST - 16mm EXTERIOR PLYWOOD SHEATHING - 2 LAYERS - 50mm RIGID POLYISO ROOF INSULATION - SELF ADHESIVE AIR/VAPOUR BARRIER (REFER TO SPECS) - 16mm EXTERIOR PLYWOOD SHEATHING - 38mm STRUCTURAL STEEL DECK ON - STEEL ROOF STRUCTURE (REFER TO STRUCT. DWGS.)

NOTE:  
FOR EXACT QUANTITIES AND LOCATIONS OF ELECTRICAL AND MECHANICAL ITEMS REFER TO ELECTRICAL AND MECHANICAL DRAWINGS

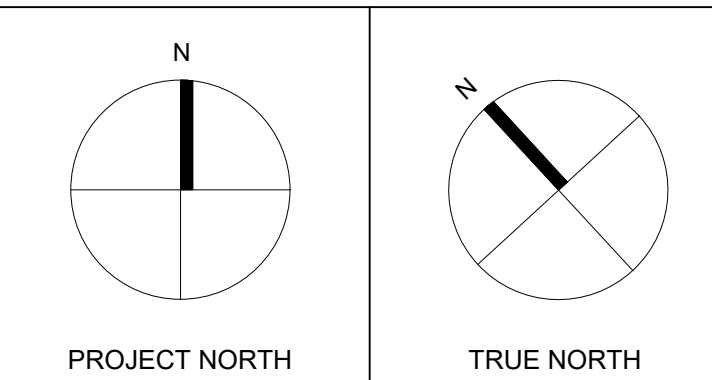
FOR ALL ELEC. EQUIPMENT IN THE CEILING REFER TO THE ELEC. DWGS.

EXTERIOR WALL TYPES	
W1	EXTERIOR WALL CONSTRUCTION: (405mm) - SPLIT FACE ARCHITECTURAL BLOCK VENEER BY SHOULDICE SIZE: 90mm THICK x 190mm HIGH x 390mm LONG, (STACKED BOND) ALTERNATE COURSING COLOUR: ROCKSTONE GREY - 25mm AIR SPACE CAVITY - 100mm SPRAY FOAM INSULATION (SEE NOTE 2) - SELF-ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS - 190mm CONCRETE BLOCK BACK-UP
W2	EXTERIOR WALL CONSTRUCTION: (405mm) - CLAY BRICK VENEER BY MERIDIAN SIZE: 90mm THICK x 57mm HIGH x 290mm LONG SOLDIER COURSING COLOUR: IRONSPOT - 25mm AIR SPACE CAVITY - 100mm SPRAY FOAM INSULATION (SEE NOTE 2) - LOW PERFORMANCE, SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS - 190mm CONCRETE BLOCK BACK-UP
W3	EXTERIOR PANELIZED WALL SYSTEM: - PREFINISHED METAL COMPOSITE CLADDING PANELS - ALPOLIC - 100mm Z-GIRTS INSTALLED HORIZONTALLY - 100mm SPRAY FOAM INSULATION (SEE NOTE 2) - SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS - 190mm CONCRETE BLOCK BACK-UP
W3a	EXTERIOR PANELIZED WALL SYSTEM: - PREFINISHED METAL COMPOSITE PANELS - ALPOLIC - 12mm EXTERIOR GRADE PLYWOOD BASE - 92mm METAL STUD FRAMING SYSTEM - 100mm SPRAY FOAM INSULATION (SEE NOTE 2) - SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS - 190mm CONCRETE BLOCK BACK-UP
INTERIOR WALL TYPES	
P1	P1 - INTERIOR CONCRETE BLOCK PARTITION: 190mm CONCRETE BLOCK

WALL TYPE TYPICAL NOTES:  
1. REFER TO PLANS AND ELEVATIONS  
2. ALL VOIDS AND CAVITIES

THIS DRAWING, AS AN INSTRUMENT OF SERVICES, IS THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED WITHOUT HIS PERMISSION AND UNLESS THE REPRODUCTION CARRIES HIS NAME. ALL DESIGN AND OTHER INFORMATION SHOWN ON THIS DRAWING ARE FOR USE ON THIS SPECIFIC PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF THE ARCHITECT. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWING. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1	2024-10-24	ISSUED FOR CLIENT APPROVAL
2	2025-01-06	ISSUED FOR BUILDING PERMIT
3	2025-01-30	ISSUED FOR CLIENT TENDER REVIEW
4	2025-10-03	RE-ISSUED FOR BUILDING PERMIT
5	2025-10-09	ISSUED FOR TENDER



ARCHITECT

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Project Title

**MISSISSAUGA**

**NEW COMFORT STATION  
HURON PARK  
RECREATION CENTRE**

830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

Sheet Title

**FLOOR PLAN  
ROOF PLAN AND  
REFLECTED CEILING PLAN**

Project Number 24-053

Date Oct. 2024

Drawn RS

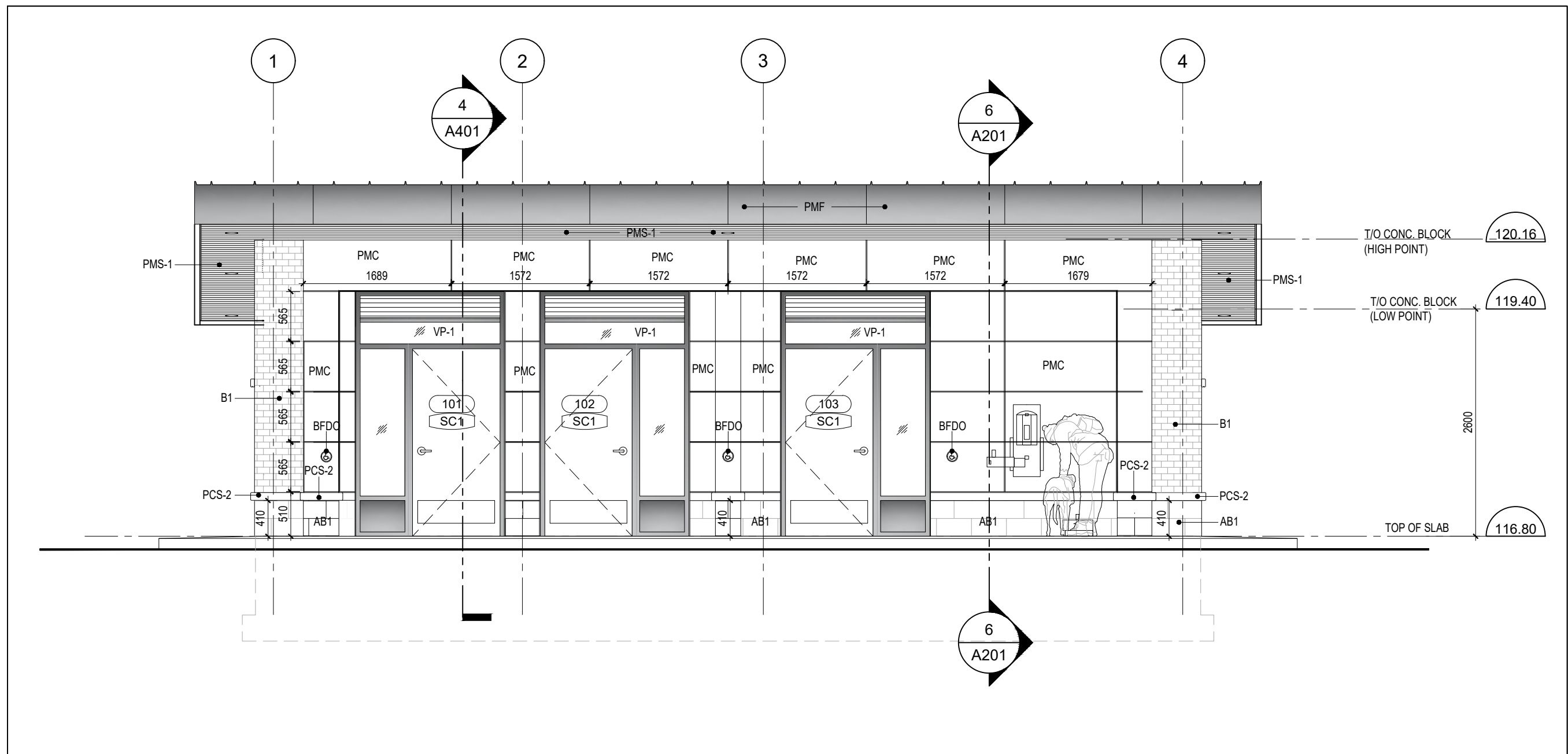
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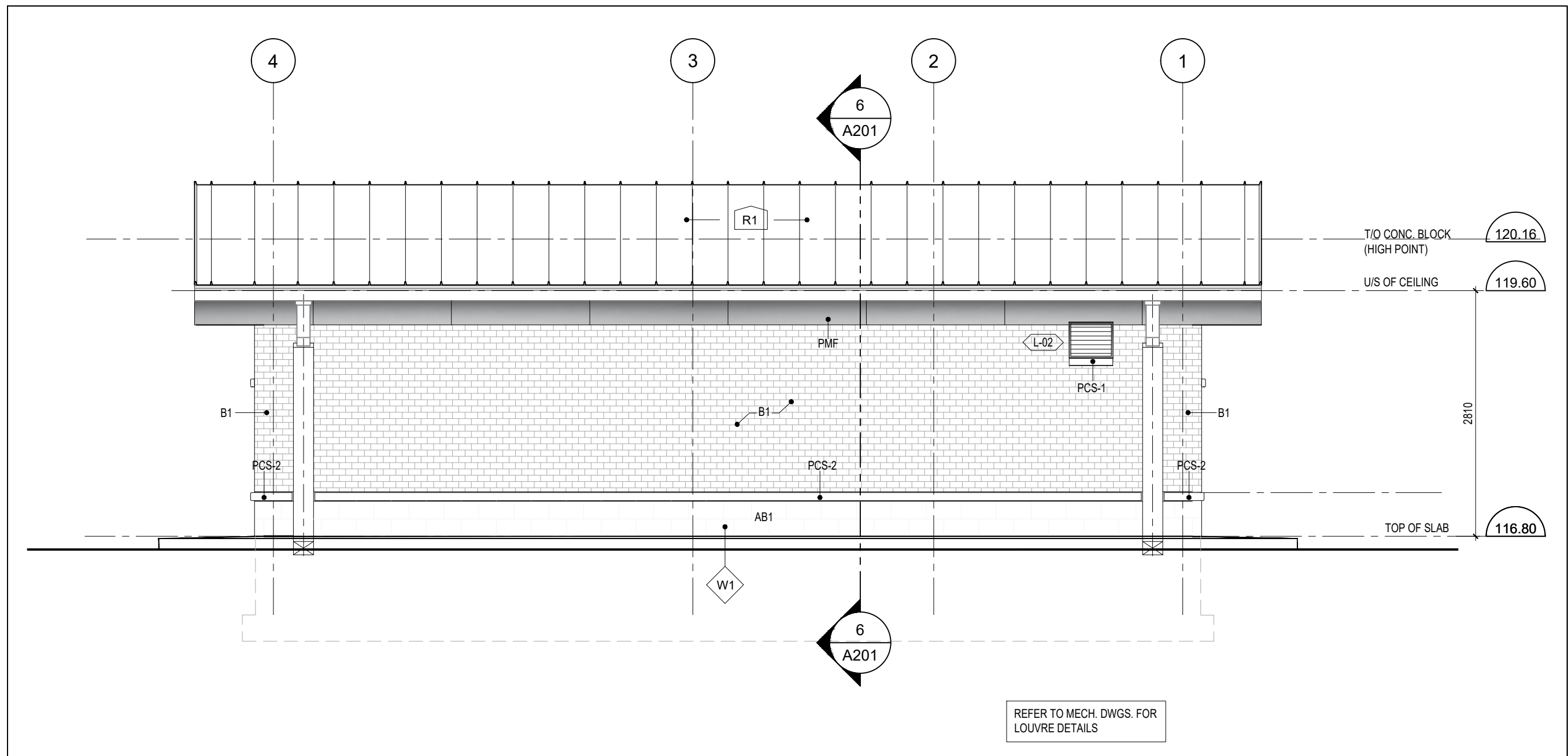
Drawing Number

A101

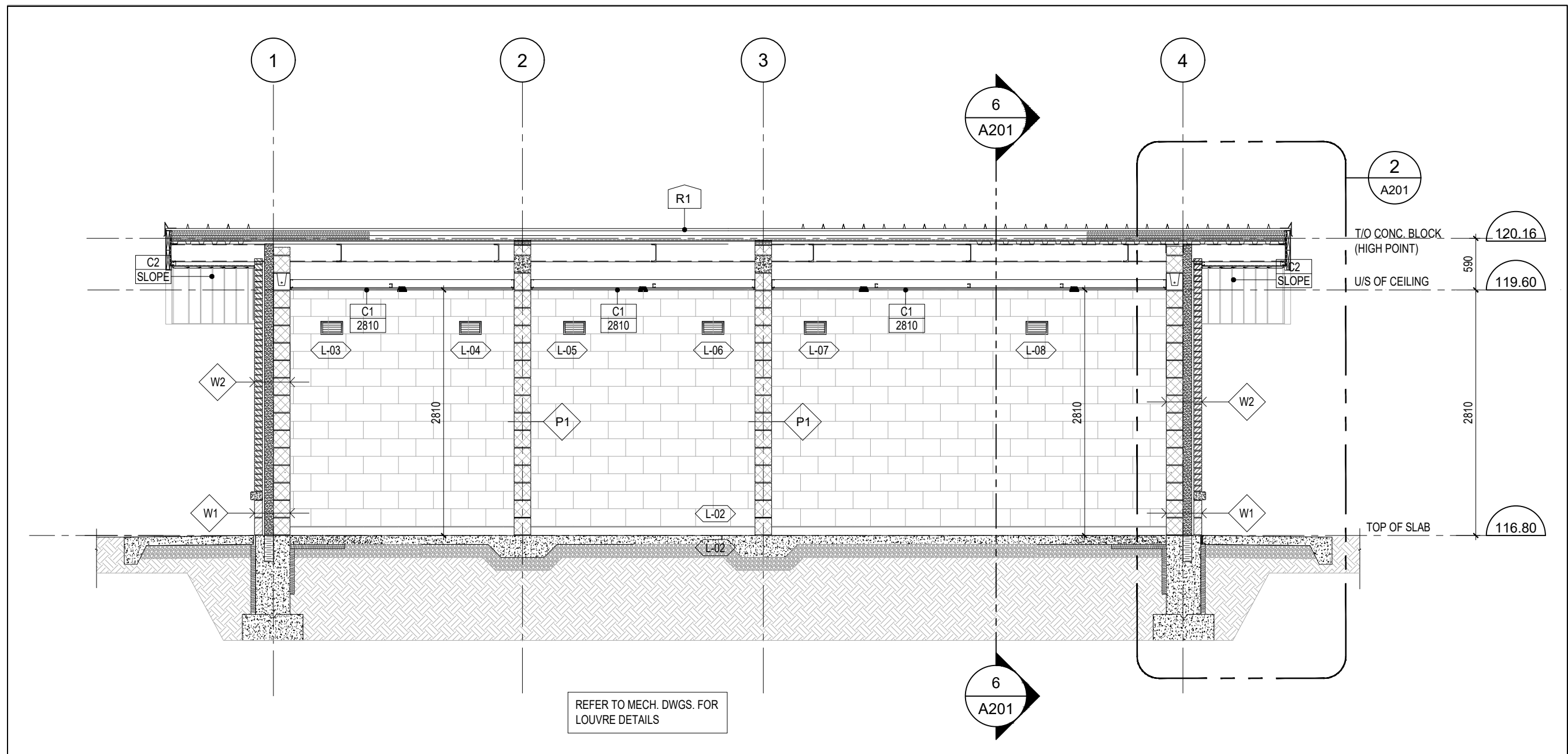




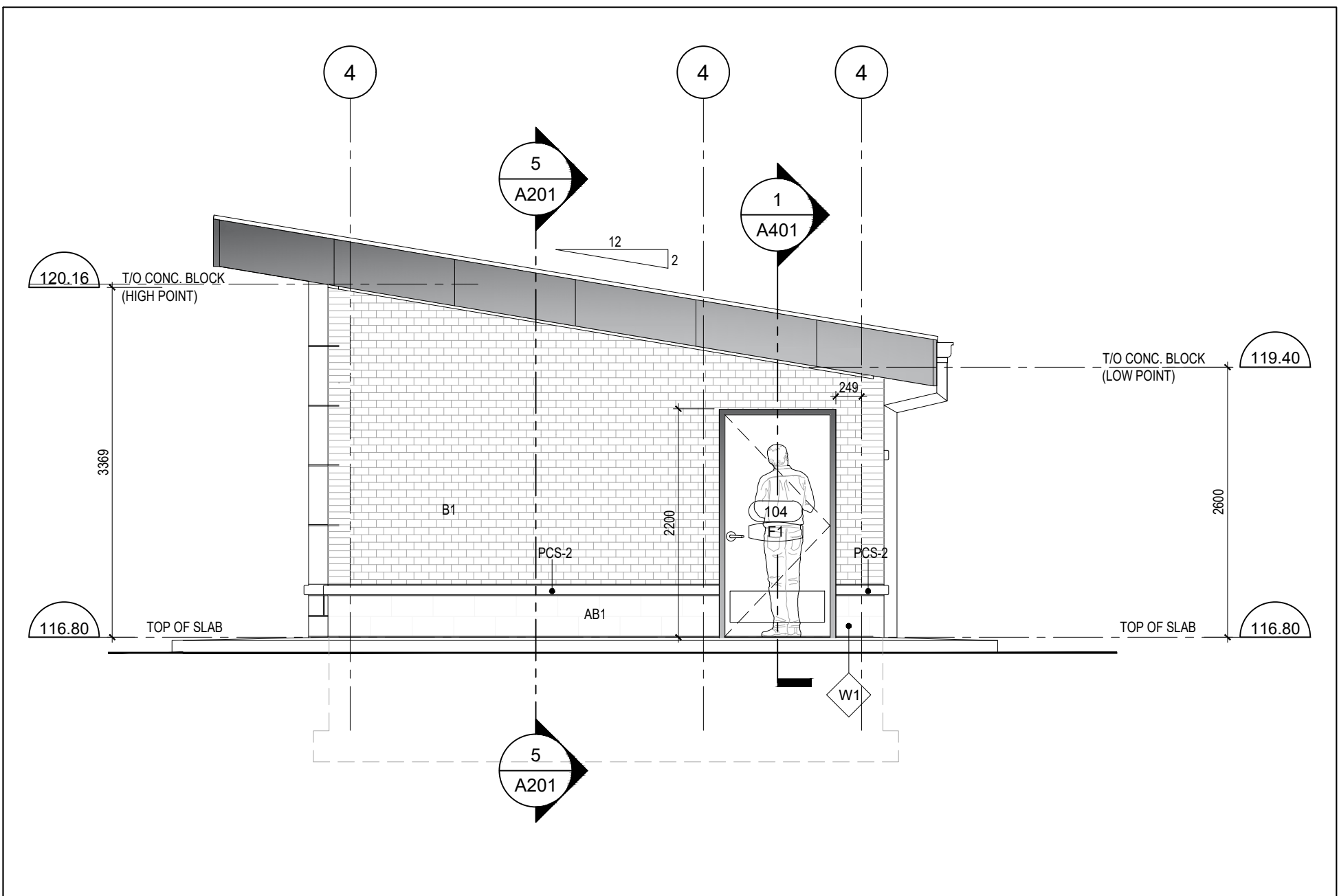
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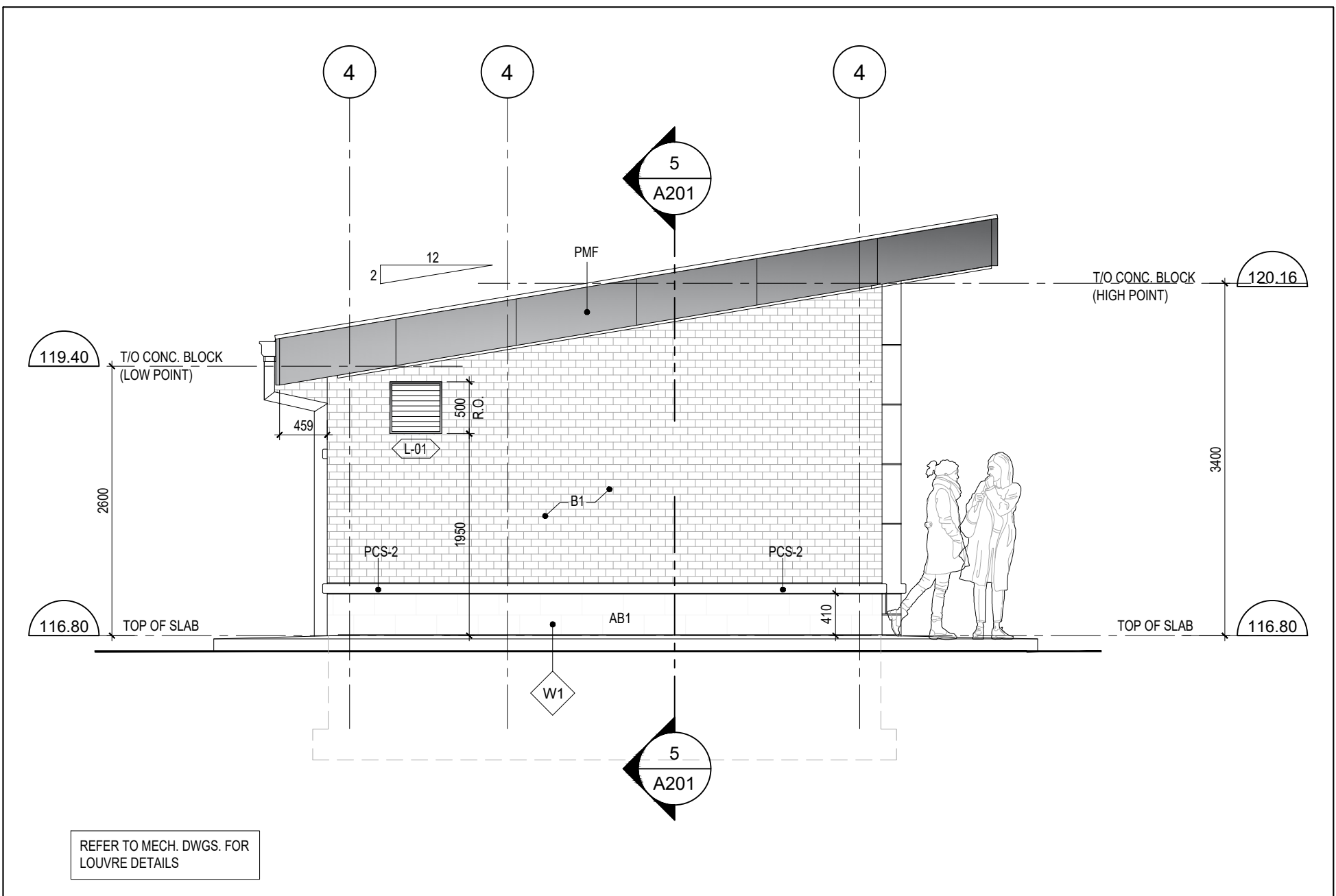
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SCALE 1:50



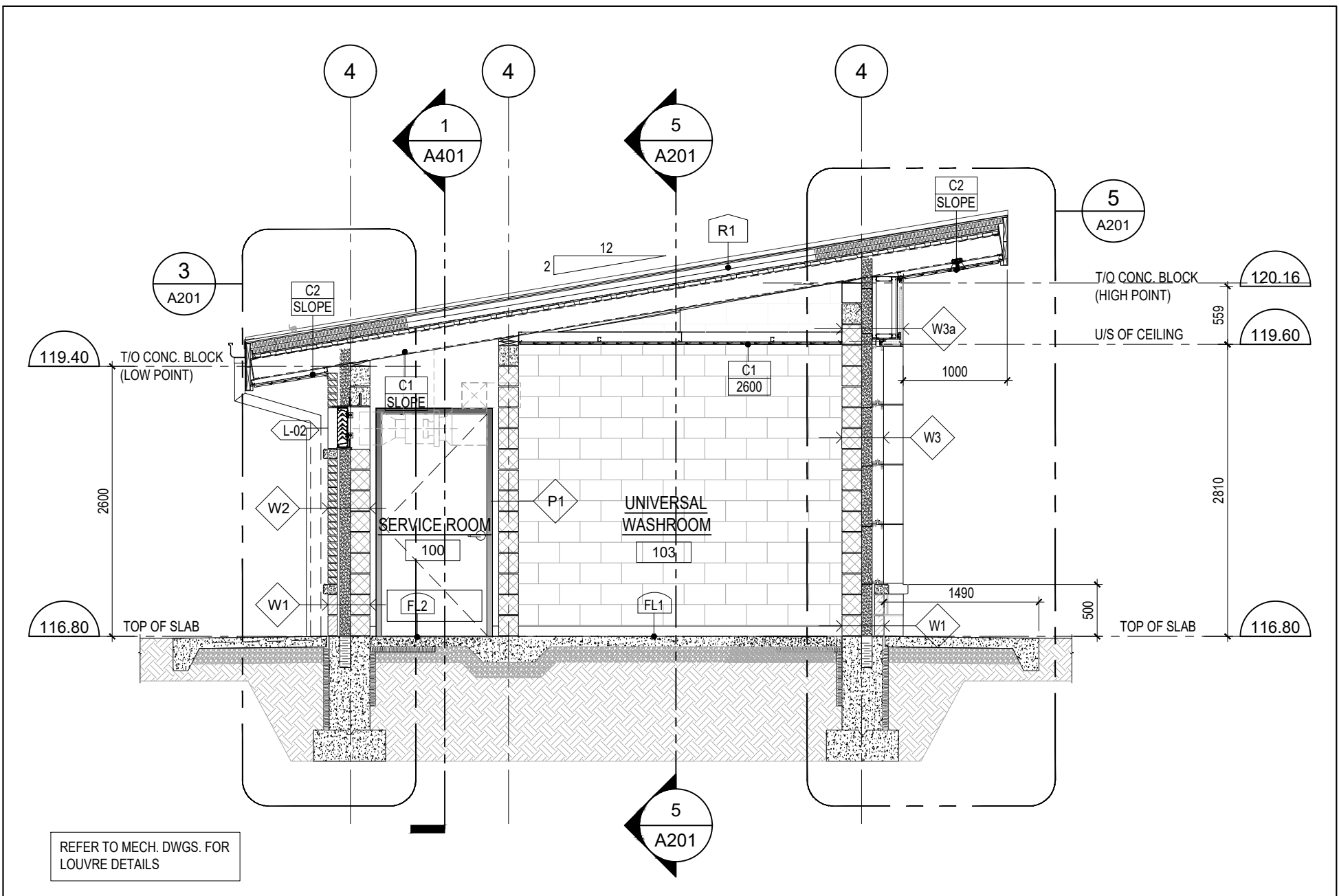
5 BUILDING SECTION  
SCALE 1:50



2 SOUTH ELEVATION  
SCALE 1:50



4 NORTH ELEVATION  
SCALE 1:50



6 BUILDING SECTION  
SCALE 1:50

#### EXTERIOR WALL TYPES

- W1 EXTERIOR WALL CONSTRUCTION: (405mm)
- SPLIT FACE ARCHITECTURAL BLOCK VENEER BY SHOULDICE
  - SIZE: 90mm THICK x 190mm HIGH x 390mm LONG, (STACKED BOND) ALTERNATE COURSING COLOUR: ROCKSTONE GREY
  - 25mm AIR SPACE CAVITY
  - 100mm SPRAY FOAM INSULATION (SEE NOTE 2)
  - SELF-ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS
  - 190mm CONCRETE BLOCK BACK-UP

- W2 EXTERIOR WALL CONSTRUCTION: (405mm)
- CLAY BRICK VENEER BY MERIDIAN
  - SIZE: 90mm THICK x 57mm HIGH x 230mm LONG SOLDIER COURSING
  - COLOUR: IRONSPOUT
  - 25mm AIR SPACE CAVITY
  - 100mm SPRAY FOAM INSULATION (SEE NOTE 2)
  - LOW PERMEANCE, SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS
  - 190mm CONCRETE BLOCK BACK-UP

- W3 EXTERIOR PANELIZED WALL SYSTEM:
- PREFINISHED METAL COMPOSITE CLADDING
  - PANELS - ALPOLIC
  - 100mm Z-GIRTS INSTALLED HORIZONTALLY
  - 100mm SPRAY FOAM INSULATION (SEE NOTE 2)
  - SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS
  - 190mm CONCRETE BLOCK BACK-UP

- W3a EXTERIOR PANELIZED WALL SYSTEM:
- PREFINISHED METAL COMPOSITE PANELS
  - ALPOLIC
  - 12mm EXTERIOR GRADE PLYWOOD BASE
  - 92mm METAL STUD FRAMING SYSTEM
  - 100mm SPRAY FOAM INSULATION (SEE NOTE 2)
  - SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS
  - 190mm CONCRETE BLOCK BACK-UP

WALL TYPE TYPICAL NOTES:  
1. REFER TO PLANS AND ELEVATIONS  
2. ALL VOIDS AND CAVITIES

#### INTERIOR WALL TYPES

- P1 - INTERIOR CONCRETE BLOCK PARTITION:  
190mm CONCRETE BLOCK

#### CEILING TYPES

- C1 1000 INTERIOR CEILING  
PREFINISHED METAL CLADDING, BELLARA MOUNTAIN CEDAR BY VICWEST  
METAL FURRING CHANNELS @ 600 O/C  
92mm METAL STUD FRAMING SYSTEM @ 1200mm (MAX.) O/C BRACED TO UNDERSIDE OF STRUCTURE
- C2 1000 EXTERIOR METAL SOFFIT (PMS-1)  
PREFINISHED METAL CLADDING, BELLARA MOUNTAIN CEDAR BY VICWEST  
METAL FURRING CHANNELS @ 600 O/C  
12.7mm CEMENT BOARD BRACED TO UNDERSIDE OF STEEL ROOF STRUCTURE

#### FLOOR FINISH TYPES

- FL1 TROWEL EPOXY FLOOR (TEF)  
REFER TO SPECS.
- FL2 SEALED CONCRETE FLOOR (SCF)  
REFER TO SPECS.

#### ROOF TYPES

- R1 ROOF TYPE - R1  
FROM TOP TO BOTTOM:  
- PREFINISHED STANDING SEAM STEEL ROOFING, BY VICWEST  
- 16mm EXTERIOR PLYWOOD SHEATHING  
- 2 LAYERS - 50mm RIGID POLYISO ROOF INSULATION  
- SELF ADHESIVE AIR/VAPOUR BARRIER (REFER TO SPECS)  
- 16mm EXTERIOR PLYWOOD SHEATHING  
- 38mm STRUCTURAL STEEL DECK ON  
- STEEL ROOF STRUCTURE (REFER TO STRUCT. DWGS.)

#### EXTERIOR FINISHES

- B1 CLAY BRICK  
900 x 57H x 230L CLAY BRICK BY MERIDIAN  
COLOUR: DUNKERRON IRONSPOUT
- AB1 ARCHITECTURAL BLOCK  
90 THICK x 190 HIGH x 390mm SPLIT FACE  
ARCHITECTURAL BLOCK BY SHOULDICE  
COLOUR: ROCKSTONE GREY,  
FINISH: TAPESTRY
- PMS-1 PREFINISHED METAL SIDING  
HORIZONTAL METAL SIDING  
BELLARA BY VICWEST  
COLOUR: MOUNTAIN CEDAR  
FINISH: WOODGRAIN
- PMC PREFINISHED EXTERIOR METAL CLADDING  
PREFINISHED ALPOLIC METAL COMPOSITE  
PANELS  
COLOUR: MATCH EXISTING ON THE  
RECREATION BUILDING
- PMF PREFINISHED METAL FLASHING  
COLOUR: DARK BROWN
- PMS-1 EXTERIOR METAL SOFFIT & FASCIA  
PREFINISHED METAL SOFFIT  
BELLARA BY VICWEST  
COLOUR: MOUNTAIN CEDAR  
FINISH: WOODGRAIN

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#### REVISIONS/SUBMISSIONS

No.	DATE	DESCRIPTION
1	2024-10-24	ISSUED FOR CLIENT APPROVAL
2	2025-01-06	ISSUED FOR BUILDING PERMIT
3	2025-01-30	ISSUED FOR CLIENT TENDER REVIEW
4	2025-10-03	RE-ISSUED FOR BUILDING PERMIT
5	2025-10-09	ISSUED FOR TENDER

PROJECT NORTH

TRUE NORTH

ARCHITECT

**Cellucci+Pace**  
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Project Title



**NEW COMFORT STATION  
HURON PARK  
RECREATION CENTRE**

830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

Sheet Title

**ELEVATIONS & SECTIONS**

Project Number 24-053

Date Oct. 2024

Drawn RS

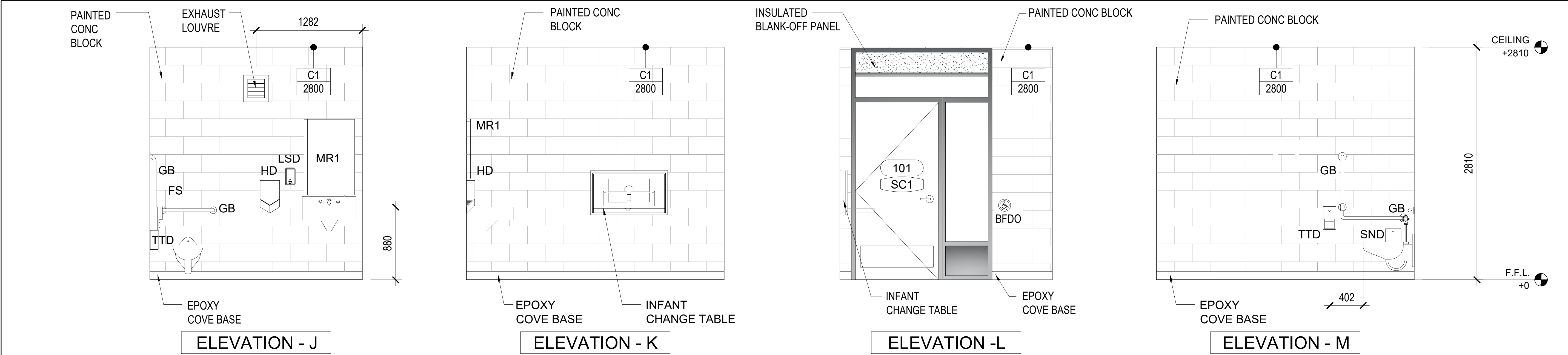
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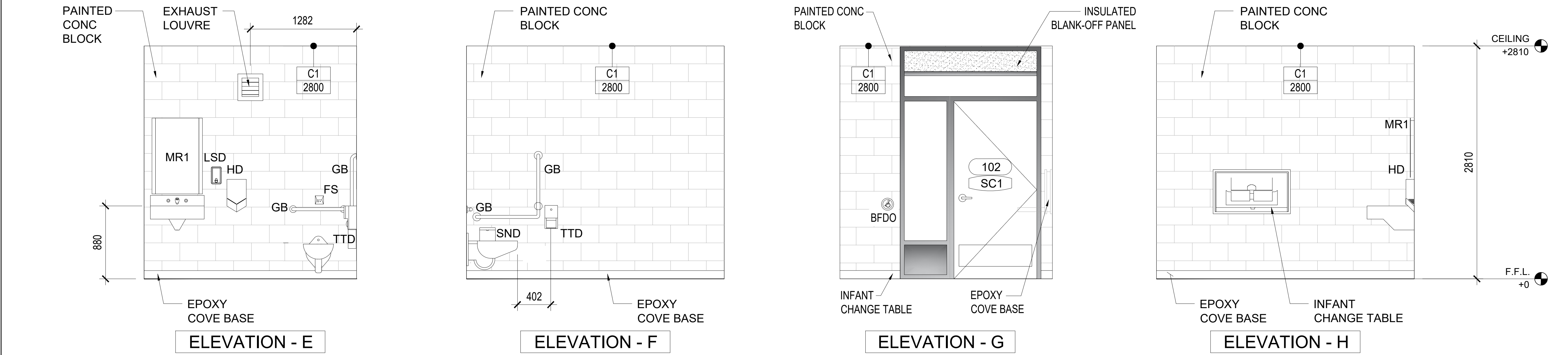
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**A201**

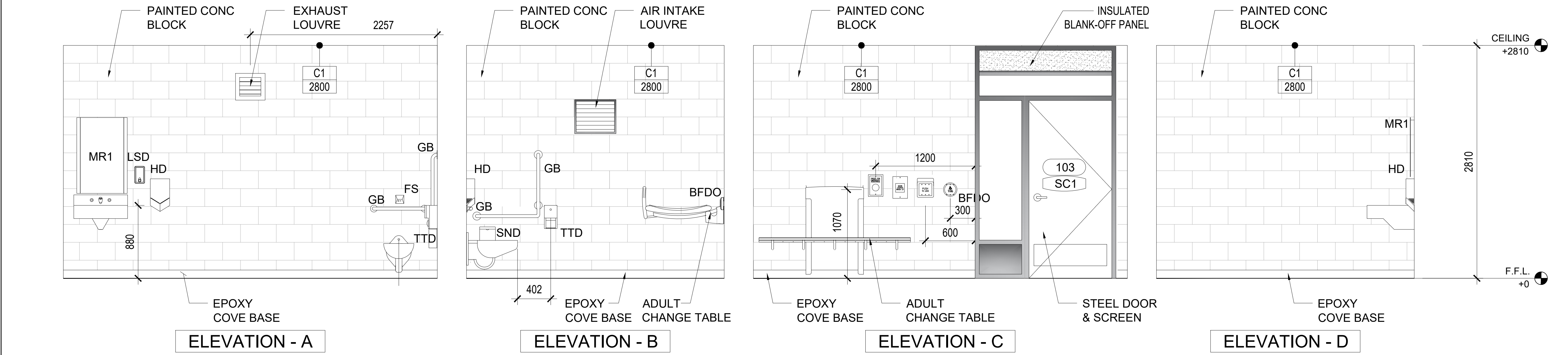




3 INTERIOR ELEVATIONS - ALL GENDER WASHROOM 1 - #101  
1:25



2 INTERIOR ELEVATIONS - ALL GENDER WASHROOM 2 - #102  
1:25



1 INTERIOR ELEVATIONS - UNIVERSAL WASHROOM - #103  
1:25

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PROJECT NORTH TRUE NORTH

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Project Title

**MISSISSAUGA**

**NEW COMFORT STATION  
HURON PARK  
RECREATION CENTRE**

830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

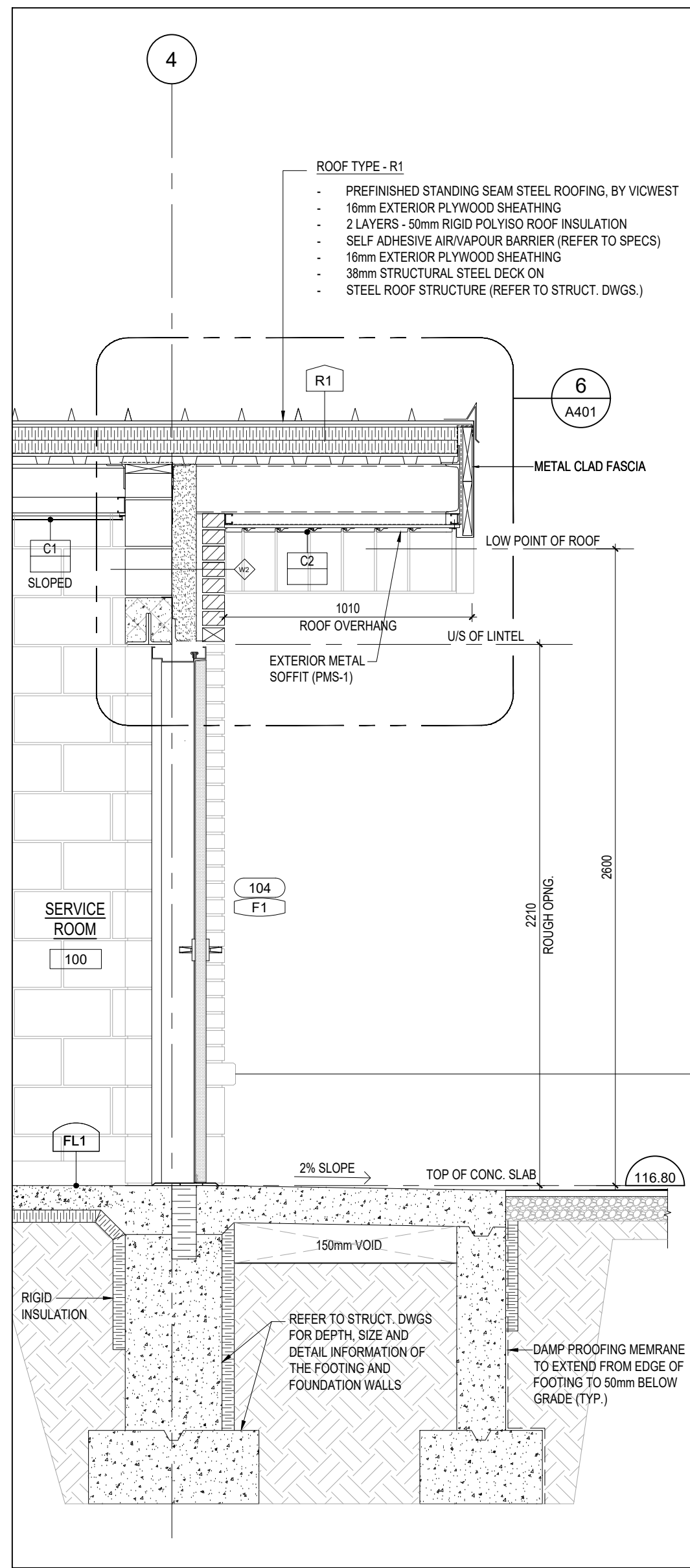
Sheet Title

**INTERIOR ELEVATIONS**

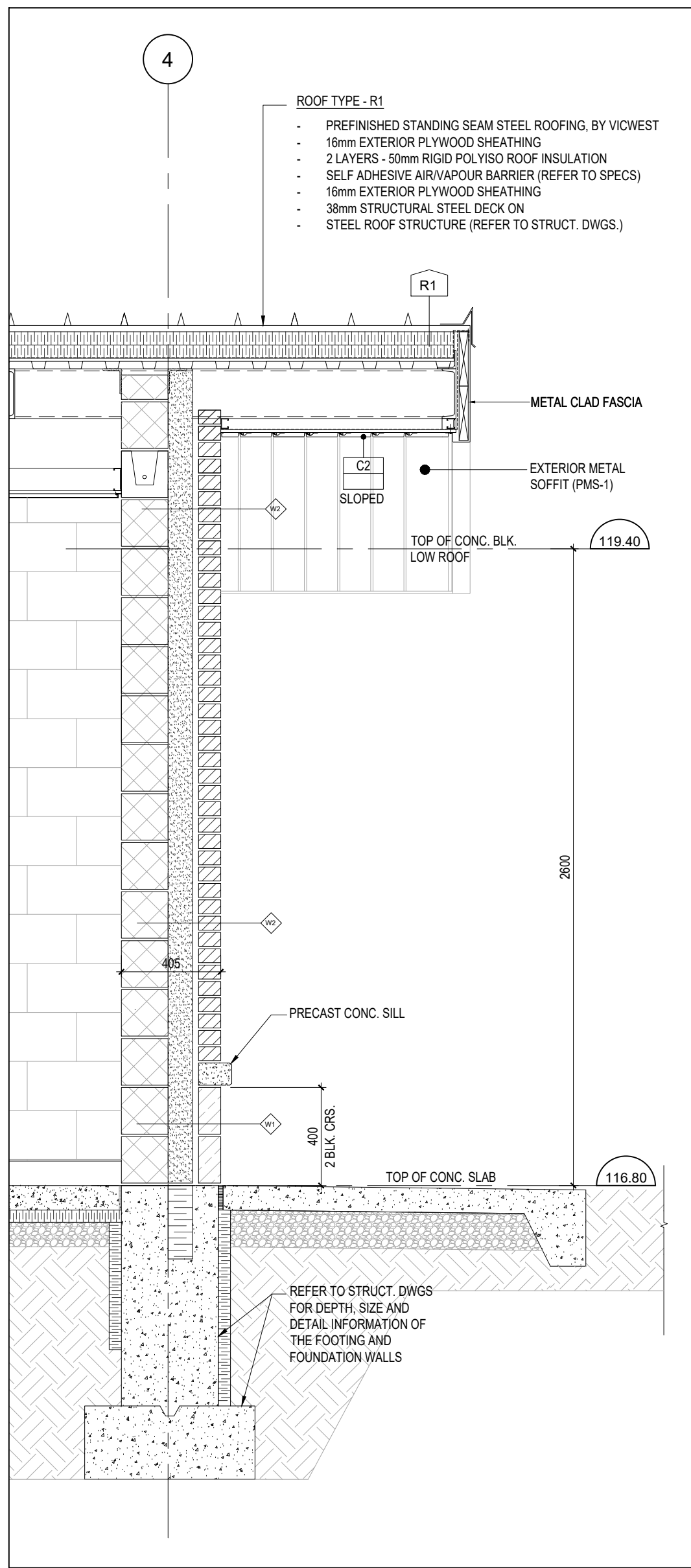
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Date	Oct. 2024
Drawn	RSe
Checked	CC
Scale	1:25
Drawing Number	

**A301**

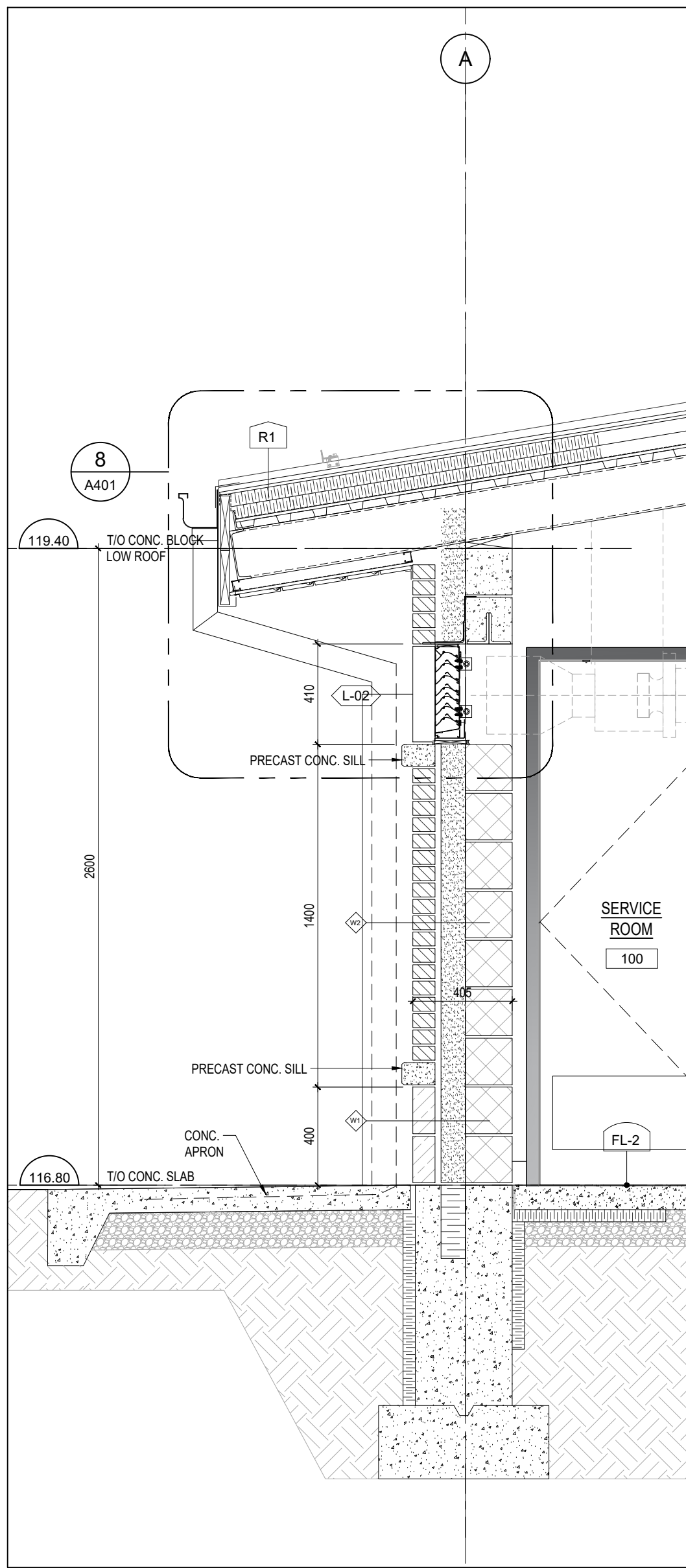




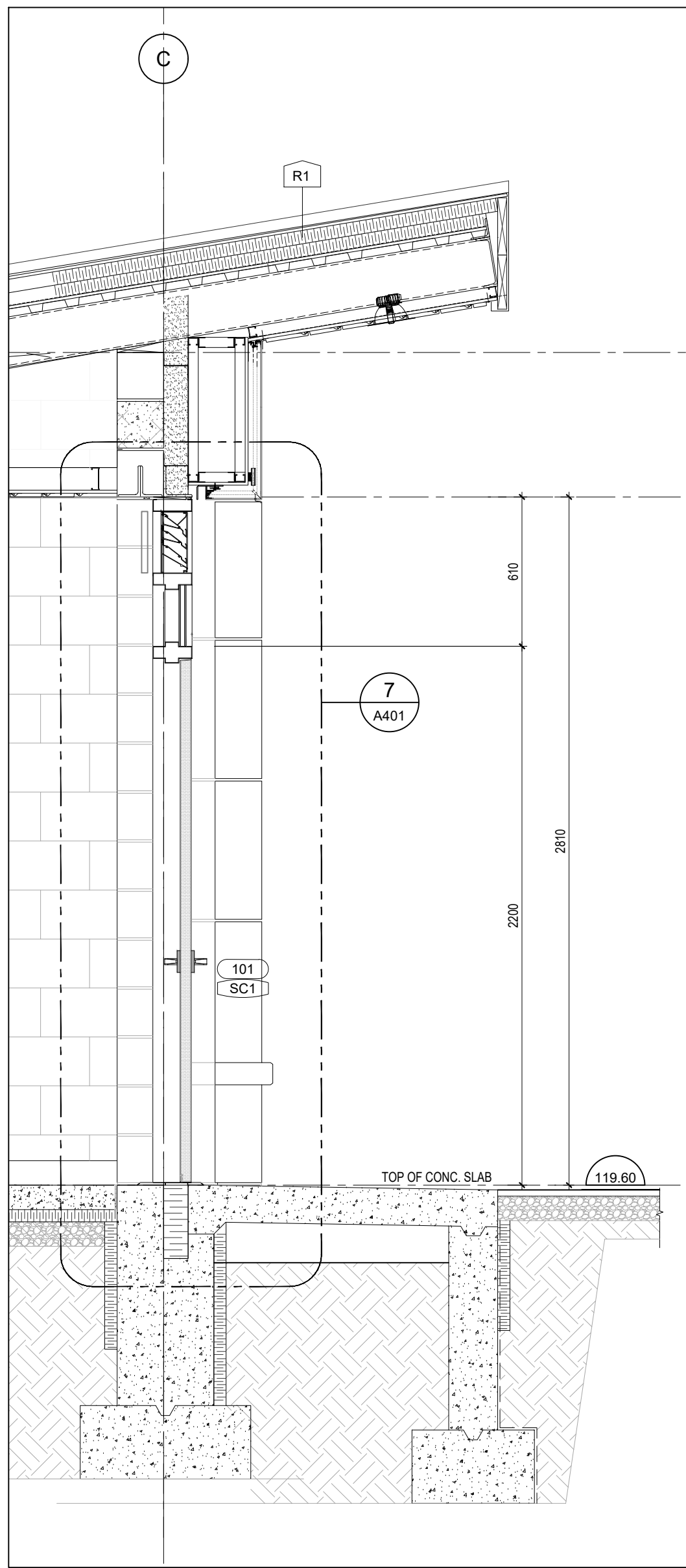
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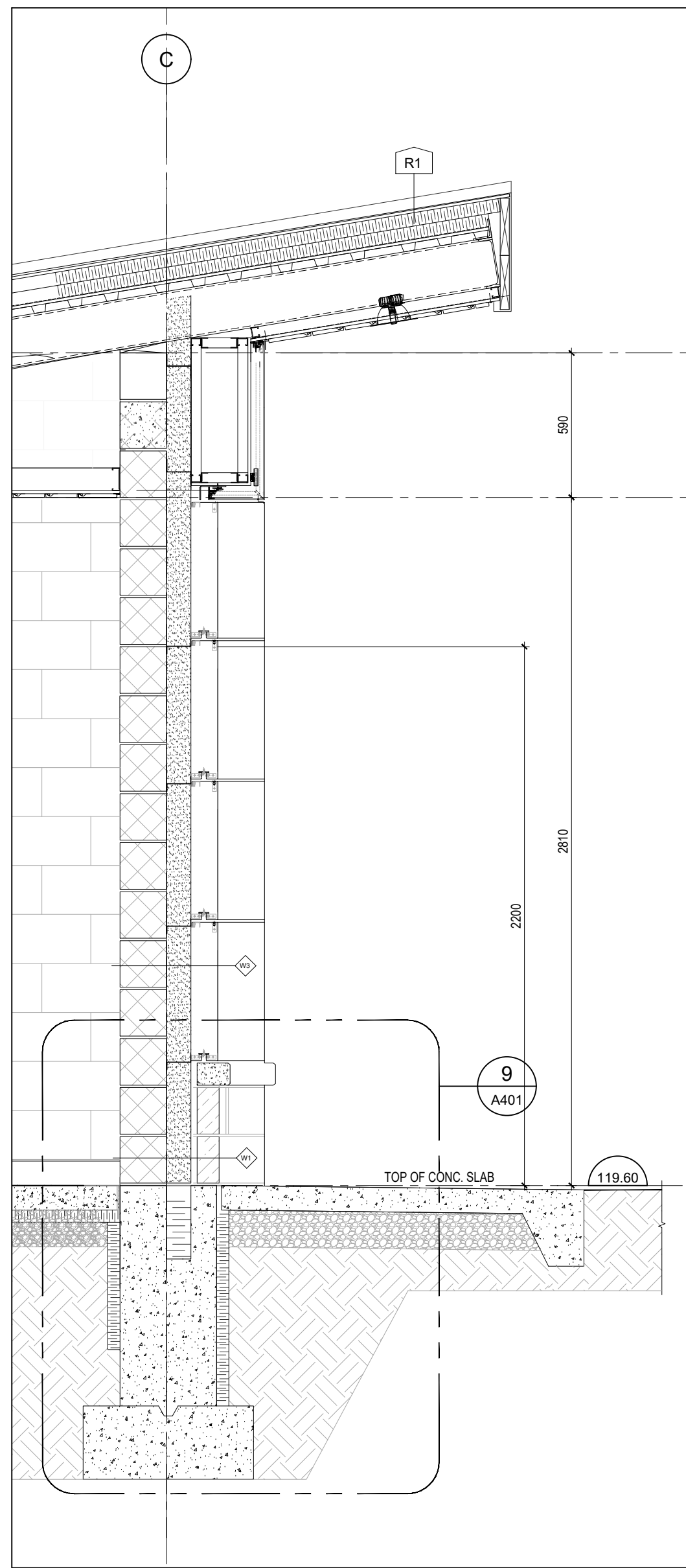
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SCALE 1:20



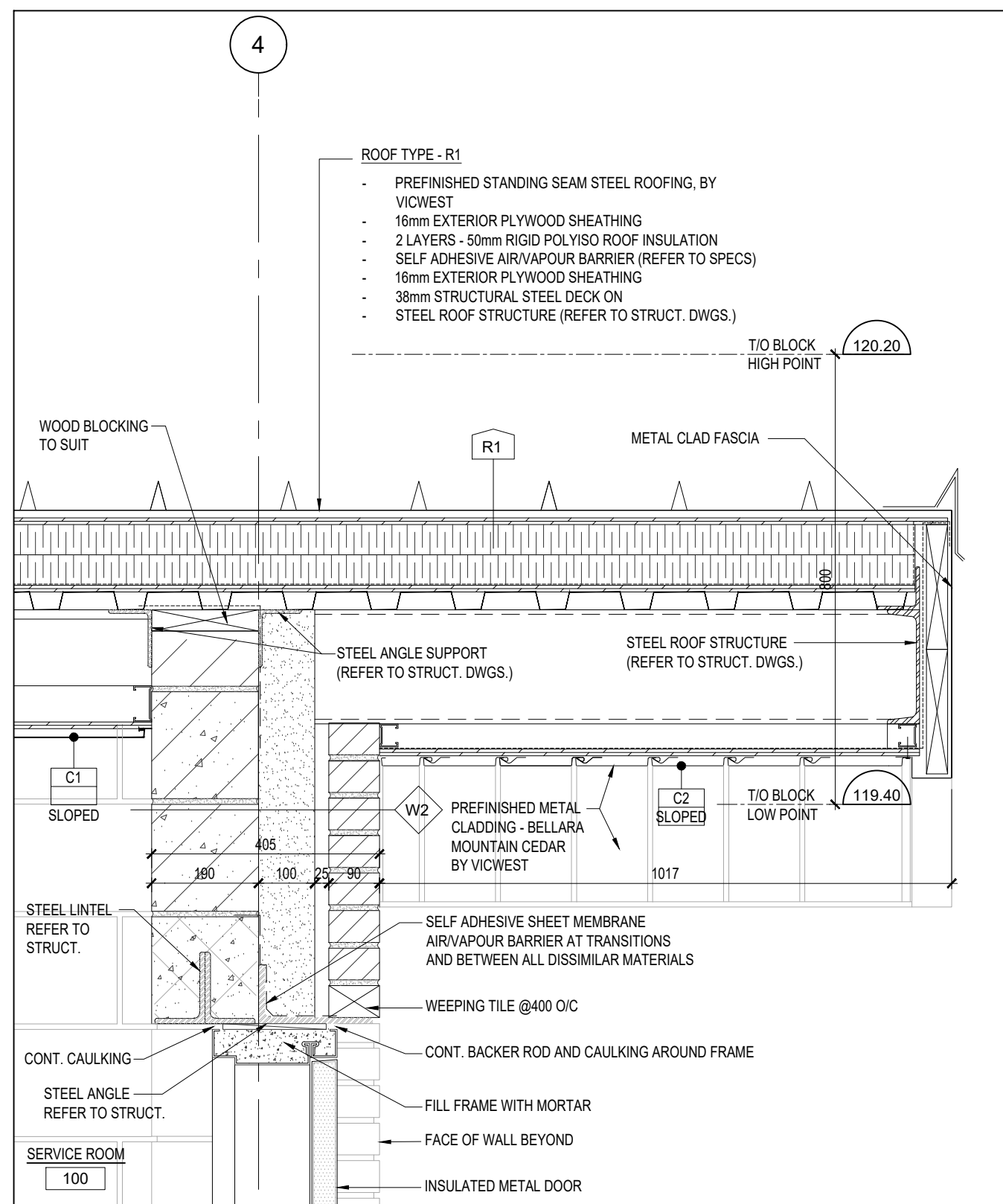
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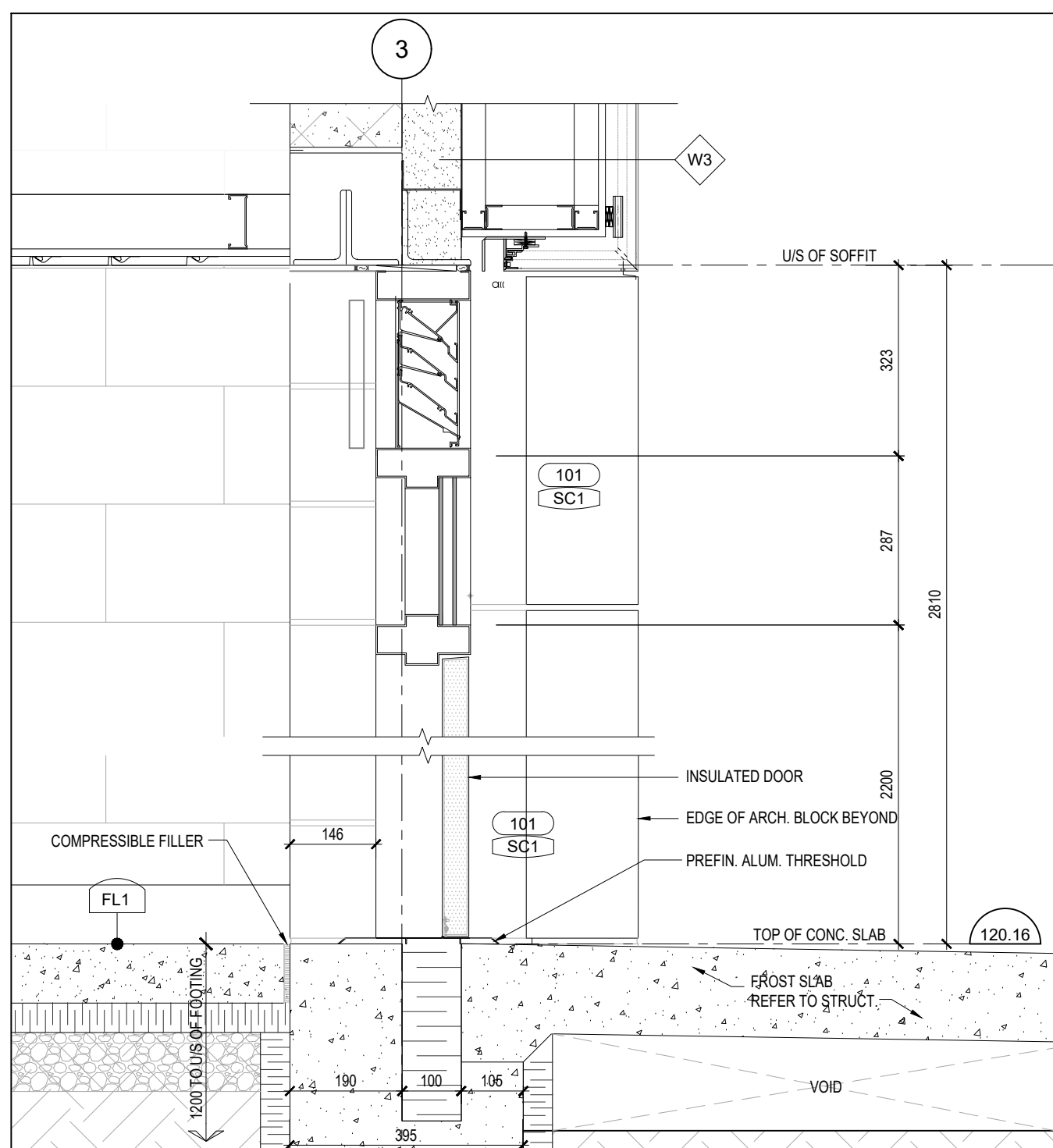
4 WALL SECTION  
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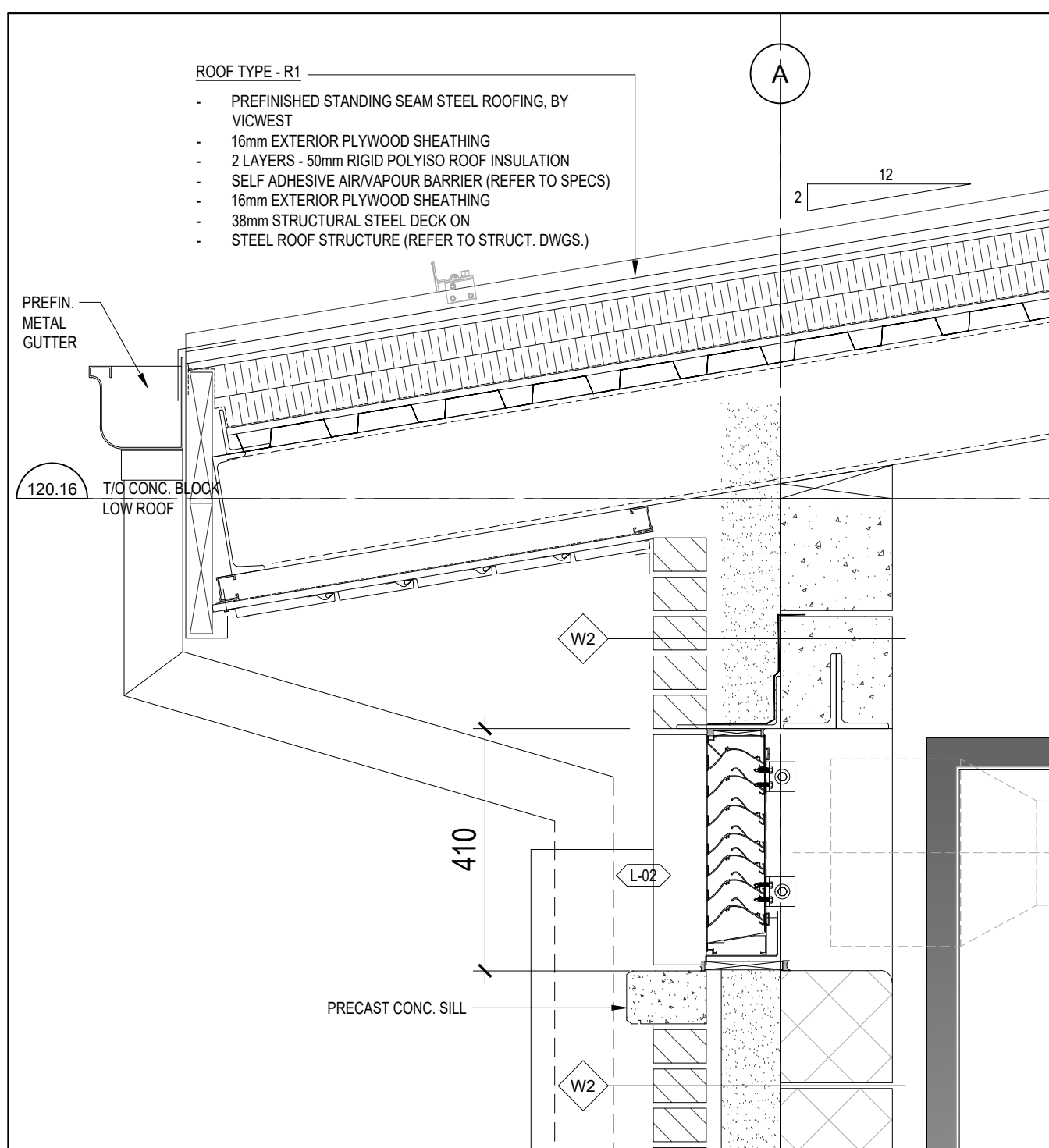
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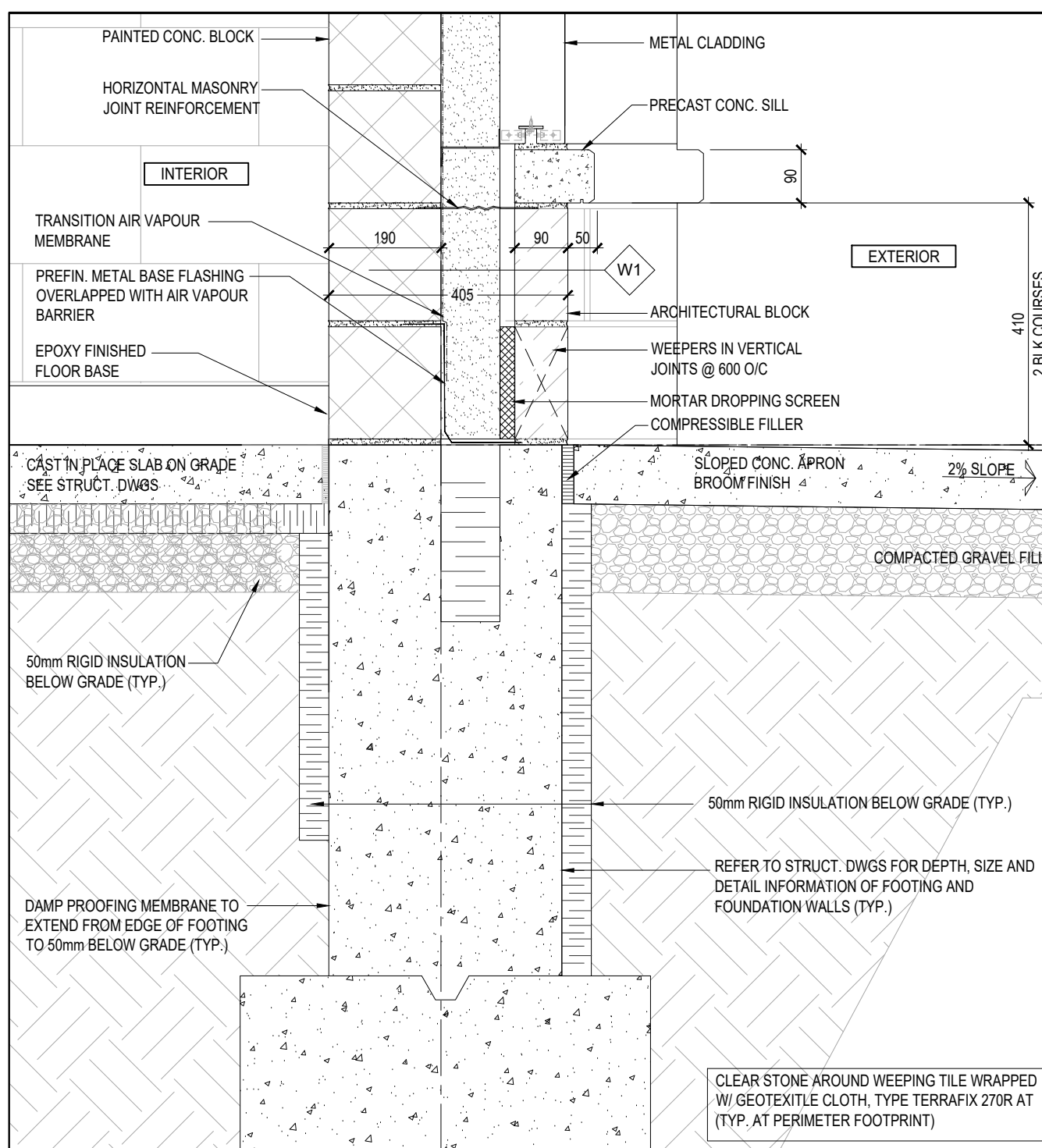
6 SECTION DETAIL  
SCALE 1:10



7 SECTION DETAIL  
SCALE 1:10



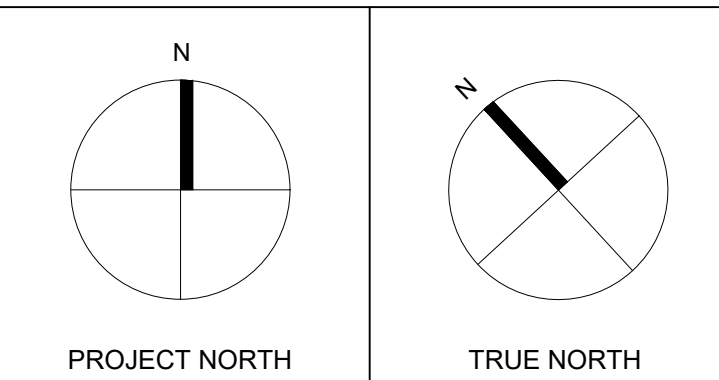
8 SECTION DETAIL  
SCALE 1:10



9 SECTION DETAIL  
SCALE 1:10

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REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
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Project Title



## NEW COMFORT STATION HURON PARK RECREATION CENTRE

830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

Sheet Title

## WALL SECTIONS AND SECTION DETAILS

Project Number	24-053
Date	Oct. 2024
Drawn	RS
Checked	CC
Scale	AS SHOWN
Drawing Number	

A401







DESIGN CRITERIA NOTES

1. GENERAL
- 1.1. THE PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 OBC (O. REG. 332/12 AS AMENDED) INCLUDING CLAUSES 4.1.6.1(1), 4.1.6.4(3), 4.1.7 AND 4.1.8.
- 1.2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO IS SUPPLYING AND INSTALLING EQUIPMENT, THAT ALL ELEMENTS OF STRUCTURES LISTED IN TABLE 4.1.8.18 OF THE OBC 2012 ARE DESIGNED IN ACCORDANCE WITH CLAUSE 4.1.8.18.
- 1.3. BUILDING IMPORTANCE CATEGORY (SNOW, WIND, AND EARTHQUAKE) IS NORMAL.
- 1.4. STIFF ELEMENTS NOT PART OF SFRS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.3 (6a). EXAMPLES INCLUDE, BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE. PROVIDE MINIMUM 25mm SEPARATION UNLESS NOTED OTHERWISE.
- 1.5. MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL:
- 1.5.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
- 1.5.2. DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.
- 1.5.3. DESIGN ALL HANDRAILS TO MEET LOADS DESCRIBED IN OBC 3.4.6.5(12).
- 1.6. ARCHITECTURAL PRECAST FABRICATOR SHALL:
- 1.6.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
- 1.6.2. WHERE PRECAST IS USED AS A GUARD DESIGN THE PRECAST AND CONNECTIONS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.
2. GRAVITY AND LATERAL LOADS ON STRUCTURE
- 2.1. WIND
- q(150) = 0.44kPa
- Ce = (h/10)<sup>1/15</sup> NOT LESS THAN 0.9.
- Cg = 2.0
- Cp = AS PER FIGURE 4.1.7.6.A OF NBC 2015
- 2.2. SNOW
- Is = 1.0
- Ss = 1.1
- St = 0.4
- 2.3. EARTHQUAKE
- So(2) = 0.219 PGA = 0.141 Fa = 1.00
- So(5) = 0.115 SITE CLASS = C Fv = 1.00
- So(10) = 0.098 Rd = 1.5 Ib = 1.00
- So(20) = 0.028 Ro = 1.5 IfsSo(2) = 0.219
- SFRS CONSISTS OF CONVENTIONAL MASONRY SHEAR WALLS.
- METHOD OF ANALYSIS - STATIC
3. FOUNDATION WALLS
- 3.1. WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND HORIZONTAL EARTH PRESSURE
- (Pa) (W/m²)
- K = 0.45
- Wt = 21kN/m³
- q = 12kPa
- h = DEPTH IN METRES
- 3.2. THE WALLS HAVE BEEN DESIGNED ASSUMING FREE DRAINING BACKFILL OR THE USE OF A DRAINAGE CORE TO PREVENT THE BUILD UP OF HYDROSTATIC PRESSURE.

SITE PREPARATION NOTES FOR SLAB-ON-GRADE  
(WITHIN BUILDING ENVELOPE)

1. THE AREA WITHIN THE BUILDING SHALL BE STRIPPED OF THE UPPER LAYER SOIL, FILL, ORGANICALLY CONTAMINATED MATERIAL AND RUBBLE AND TO A MINIMUM OF 2300mm BELOW THE UNDERSIDE OF THE EXISTING GRADE.
2. THE EXPOSED SUB-GRADE SHALL BE EXAMINED AND APPROVED BY THE SOIL CONSULTANT.
3. THE ENTIRE AREA SHALL BE PROOF ROLLED WITH A HEAVY COMPACTOR TO A MINIMUM OF 95% STANDARD PROCTOR MAX. DRY DENSITY AND TO THE APPROVAL OF THE SOIL CONSULTANT.
4. ANY LOOSE OR SOFT SPOTS ENCOUNTERED SHALL BE SUB-EXCAVATED AND BACKFILLED WITH COMPACTED APPROVED MATERIAL.
5. FILL REQUIRED TO RAISE THE GRADES SHALL BE COMPRISED OF APPROVED **GRANULAR 'B' TYPE 1 CONFORMING TO OPSS 1010**, PLACED IN SUCCESSIVE LOOSE 300mm (12") LAYERS EACH COMPACTED TO AT LEAST 95% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.
6. THE LAYER IMMEDIATELY BELOW THE SLAB-ON-GRADE SHALL BE 200mm (8") OF **19mm CLEAR STONE** COMPACTED TO MIN. 95% STANDARD PROCTOR MAX. DRY DENSITY.
7. ALL PROCEDURES, EQUIPMENT AND MATERIALS SHALL BE APPROVED BY THE SOIL CONSULTANT WHO SHALL CONDUCT SUFFICIENT TESTS TO ENSURE THAT THE SPECIFIED MATERIALS AND DENSITIES ARE ACHIEVED.
8. THE CONTRACTOR SHALL CO-ORDINATE WITH THE SOIL CONSULTANT AND ARRANGE A SUITABLE PROGRAM FOR SAMPLING AND INSPECTIONS, ETC. AND NOTIFY THE ARCHITECT ACCORDINGLY.
9. EXISTING ON-SITE MATERIAL **SHALL NOT** BE USED WITHIN THE BUILDING AREA FOR BACKFILLING IN TRENCHES AGAINST FOUNDATION WALLS OR UNDER SLAB-ON-GRADE.
10. REFER TO THE SPECIFICATION AND THE SOIL REPORT FOR PREPARATION OF AREAS OUTSIDE THE BUILDING ENVELOPE.

CONCRETE MIX SCHEDULE

EXPOSURE	ELEMENT	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa )	EXPOSURE CLASSIFICATION	NOTES
GENERAL NON-EXPOSED CONCRETE (i.e. NOT EXPOSED TO CHLORIDES NOR FREEZE AND THAW)	FOOTINGS	25	N	
	SLAB ON GRADE	25	N	
	LEAN MIX	5	N	
	HOUSEKEEPING PADS	25	N	
	UNSHRINKABLE FILL	0.4 MAX.	N	
EXTERIOR EXPOSED CONCRETE EXCLUDING PARKING (i.e. EXPOSED TO FREEZE AND THAW BUT NOT CHLORIDES)	FOUNDATION/RETAINING WALLS	25	F-2	
	SLAB ON GRADE - SIDEWALKS	32	C-2	
AREAS EXPOSED TO CHLORIDES	FOUNDATION/RETAINING WALLS	25	F-2	
	SLAB ON GRADE - UNREINFORCED OR FIBRE FROST SLABS	32	C-2	
		35	C-1	
GROUT	MASONRY FILL/BOND BEAMS	15 (FINE GROUT)		CONFORM TO REQUIREMENTS OF CSA A179
1) STRENGTH SPECIFIED AT 28 DAYS U.N.O. IN DRAWINGS AND SCHEDULES.				
2) REINFORCED WITH SYNTHETIC FIBERS ADDED AT BATCHING PLANT - SEE SPECIFICATIONS				

MASONRY CORE FILL SCHEDULE

M20

MASONRY CORE FILL SCHEDULE			
TYPE	SIZE	REINF.	REMARKS
C1	1 x 400	2-15 VERT. CONT.	
C2	1 x 600	3-15 VERT. CONT.	
C3	1 x 800	4-15 VERT. CONT.	
C4	1 x 400 x 400	4-15 VERT. CONT.	
t DENOTES THE WALL THICKNESS			

MASONRY CORE FILLS NOTES:

1. PROVIDE CORE FILLS AS NOTED ON PLAN AND PROVIDE REINFORCEMENT AS SHOWN IN SCHEDULE.
2. CORE FILLS EXTEND FULL HEIGHT OF WALL, FLOOR TO ROOF UNLESS NOTED.
3. INSTALL ALL REINFORCEMENT FULL HEIGHT BETWEEN FLOOR AND ROOF AND GROUT CORE SOLID FULL HEIGHT BETWEEN FLOORS UNLESS NOTED.
4. PROVIDE 15M DOWELS IN FOUNDATION WALLS FOR ALL WALL REINFORCEMENT UNLESS NOTED OTHERWISE.
5. REFER TO MIN FOR LAP LENGTHS FOR VERTICAL BARS AND DOWELS.
6. REFER TO CORE FILLS SCHEDULE FOR DETAILS AND REINFORCEMENT.
7. PROVIDE CORE FILL C1 AT EACH SIDE OF OPENINGS UN OTHERWISE NOTED ON PLANS AND/OR SECTIONS.
- a) PROVIDE C1 AT UNSUPPORTED ENDS OF WALLS UN.
- b) PROVIDE C1 AT EACH SIDE OF CONTROL JOINTS UN.
8. PROVIDE CORE FILL C4 AT ALL WALL CORNERS UN OTHERWISE IN PLANS AND/OR SECTIONS.
9. 190mm MASONRY WALL REINFORCING - 15M@800 O.C.
10. REINFORCE ALL MASONRY SILLS, INTERIOR AND EXTERIOR, AS PER THE REINFORCING INDICATED IN THIS SCHEDULE. GROUT TOP TWO COURSES OF ALL SILLS SOLID, FULLY GROUT ALL EXTERIOR SILLS.

MECHANICAL LINTEL SCHEDULE

LINTELS IN LOAD BEARING WALLS OVER MECHANICAL DUCTS ETC.					
WALL THICKNESS	CLEAR SPAN	MATERIAL	TYPE	NOTES	
190	200-550	175x8 PLATE	---		
190	550-1220	2-L90x90x6			
240	200-550	225x8 PLATE	---		
240	550-1220	2-L100x100x8			
290	200-550	275x8 PLATE	---		
290	550-1220	3-L90x90x6			
190 + 90	200-550	175x8 PLATE + 80x8 PLATE	---		
190 + 90	550-1220	2-L90x90x6 + 1-L90x90x6			
240 + 90	200-550	225x8 PLATE + 80x8 PLATE	---		
240 + 90	550-1220	2-L100x100x8 + 1-L90x90x6			
290 + 90	200-550	275x8 PLATE + 80x8 PLATE	---		
290 + 90	550-1220	3-L90x90x6 + 1-L90x90x6			
1 FOR LINTELS MARKED ML ON DRAWINGS.					
2 FOR SPANS LESS THAN 200mm - NO LINTEL REQUIRED.					
3 FOR SPANS GREATER THAN 1200mm, SEE PLANS AND MAIN LINTEL SCHEDULE.					

WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ALL LINTELS WHICH OCCUR IN LOAD BEARING MASONRY WALLS, IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE CORRECT SIZES AND QUANTITY OF LINTELS ARE PROVIDED

LINTELS IN NON-LOAD BEARING WALLS AND PARTITIONS ARE GENERALLY **NOT SHOWN** ON THE DRAWINGS. ALL SUCH LINTELS SHALL BE PROVIDED AS REQUIRED AND SHALL CONFORM TO THE NOTES & TYPICAL DETAILS ON THE STRUCTURAL DRAWINGS

PROVIDE MECHANICAL LINTELS IN ACCORDANCE WITH TYPICAL DETAILS AND NOTES FOR ALL DUCTS AND PIPES PASSING THROUGH MASONRY WALLS

WALL PLATE SCHEDULE

(LAST DIMENSION PARALLEL TO WEB)

MARK	MATERIAL	REMARKS
WP1	150x8x300	2-13 DIA. x 320 + 50 HOOK

ROOF LINTEL SCHEDULE

REFER TO LINTEL NOTES A07 ON TYPICAL DETAIL DRAWINGS

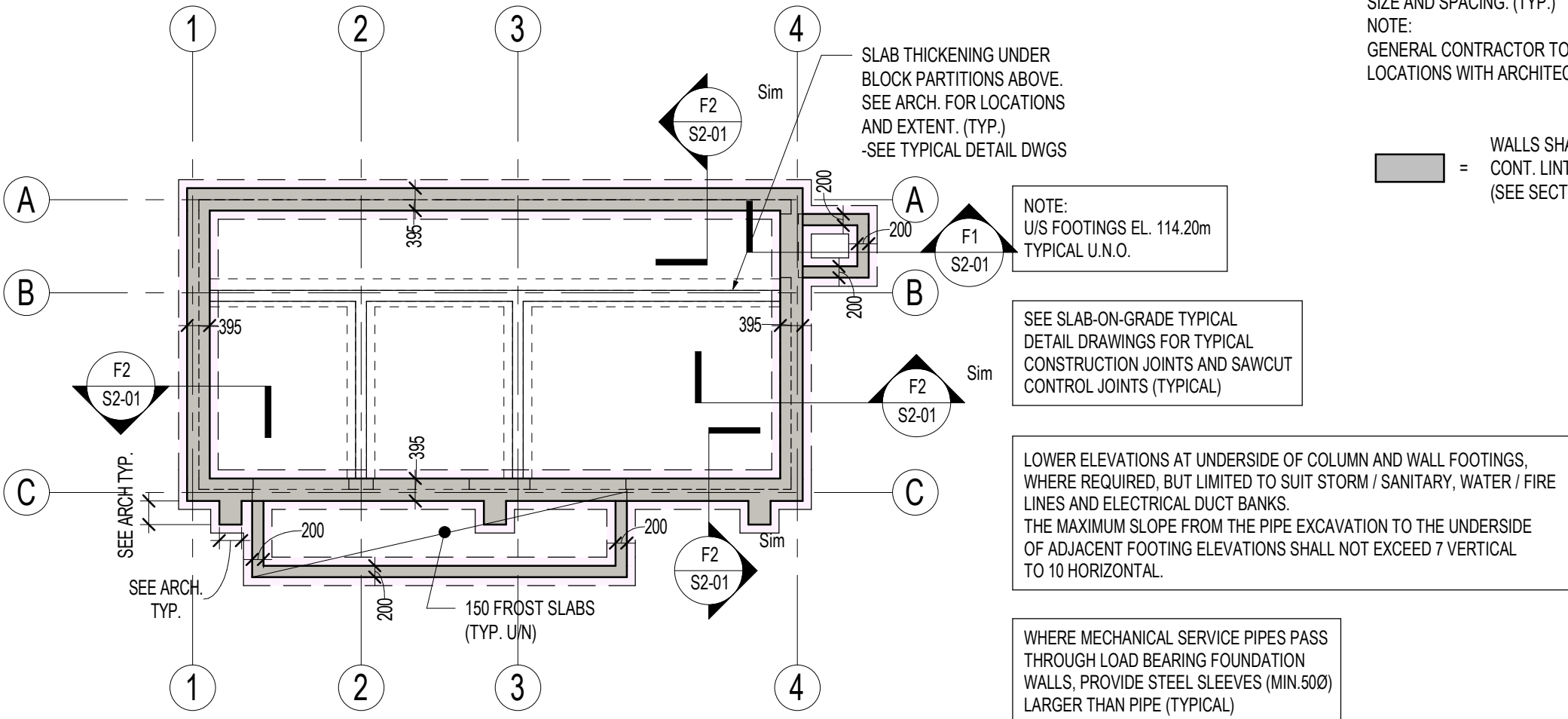
SEE ALSO SPECIFICATION

MARK	MATERIAL	TYPE	REMARKS
RL1	3-L89x89x6.4		LENGTHS MAY VARY
ALL EXTERIOR LINTELS SUPPORTING FACE BRICK TO BE GALVANIZED			
** WELDED TO HSS EACH END.			

STEEL ROOF LOADING SCHEDULE

ROOF LOAD	DECK	BEAMS & COLS.
	kPa	kPa
ROOFING	0.72	0.72
STEEL DECK	0.15	0.15
BEAMS		0.25
MECH. / ELEC. CEILING		0.19
(TOTAL) kPa	0.87	1.31
SNOW *	1.28	1.28

\* STEEL BEAMS SHALL BE DESIGNED TO SUPPORT SNOW LOADS, DEAD LOADS AND WIND. IN ADDITION STEEL ROOF FRAMING SHALL BE DESIGNED FOR POINT LOADS OF MECHANICAL EQUIPMENT. ALL LOADS SHOWN ARE UNFACTORED.



FOUNDATION PLAN

1 : 100

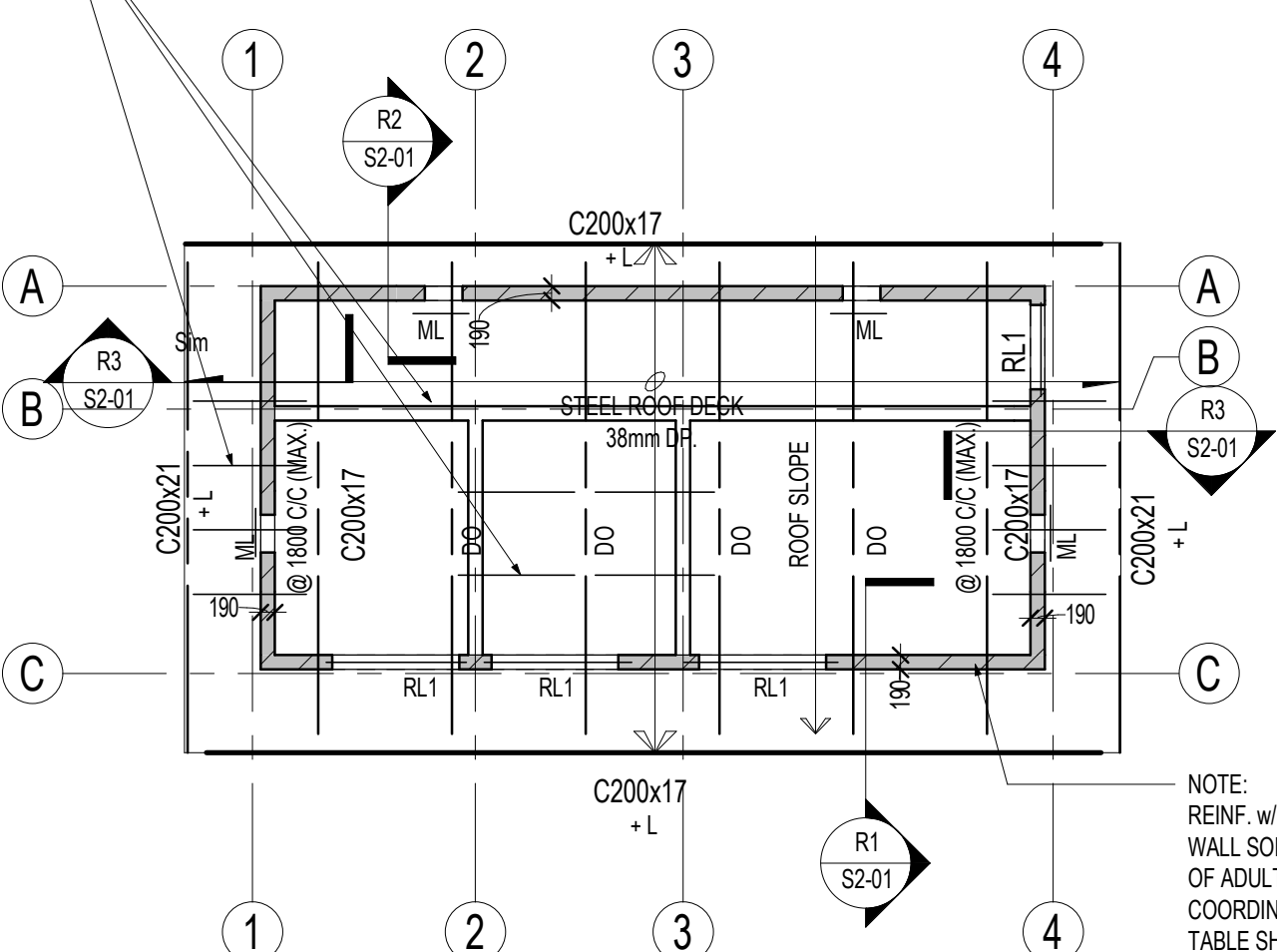
FOUNDATION PLAN NOTES

1. TOP OF SLAB - ON - GRADE TO BE 0.0 BELOW FINISHED FLOOR DATUM ELEVATION 116.80m EXCEPT AS NOTED. TOS = TOP OF SLAB.
2. FOOTINGS SHALL BEAR ON NATIVE CLAYEY SILT TILL, CAPABLE OF SUSTAINING A MINIMUM OF 200 kPa (SL)S AND 300kPa (ULS).
3. REFER TO THE SOIL REPORT DATED SEPTEMBER 18, 2025, PREPARED BY FORWARD ENGINEERING.
4. SOIL AT THE UNDERSIDE OF THE FOOTINGS IS TO BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF A SOILS CONSULTANT BEFORE PLACING CONCRETE.
5. REFER ALSO TO SITE PREPARATION NOTES ON DRAWINGS S1-01.
6. CO-ORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO PROCEEDING WITH ANY WORK.
7. UNDERSIDE OF WALL FOOTINGS TO BE AT ELEVATIONS AS NOTED ON PLAN.
8. SDF = STEP DOWN FOOTING.
9. UNLESS OTHERWISE SHOWN, ALL WALL FOOTINGS TO BE 300mm DEEP WITH 150 mm PROJECTIONS EACH SIDE.
10. FILL REQUIRED ON BOTH SIDES OF FOUNDATION WALLS SHALL BE PLACED AND COMPACTED SIMULTANEOUSLY ON EACH SIDE TO EQUALIZE SOIL PRESSURE.
11. PROVIDE SLAB DEPRESSIONS AND SLOPES, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, AS REQUIRED BY THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
12. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE INCLUDING STRIP FOOTINGS.
13. GENERAL SLAB - ON - GRADE IS 100mm THICK REINFORCED WITH SYNTHETIC FIBRES (REFER TO CONCRETE SPECIFICATION), EXCEPT AS NOTED.
14. CONCRETE STRENGTHS - SEE CONCRETE SCHEDULE.
15. SEE TYPICAL NOTES, TYPICAL DETAILS, AND ALL OTHER DRAWINGS.

PROVIDE LATERAL SUPPORT AT TOP OF MASONRY PARTITION WALLS. REFER TO TYPICAL DETAIL DWGS FOR SIZE AND SPACING. (TYP.)

NOTE: GENERAL CONTRACTOR TO COORDINATE LOCATIONS WITH ARCHITECTURAL DWGS.

WALLS SHADED AS THUS REQUIRE CONT. LINTEL BLOCK BOND BEAM (SEE SECTIONS)



ROOF FRAMING PLAN

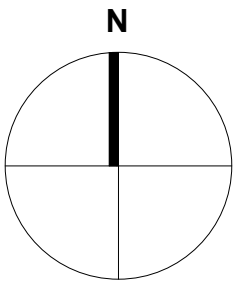
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ROOF PLAN NOTES

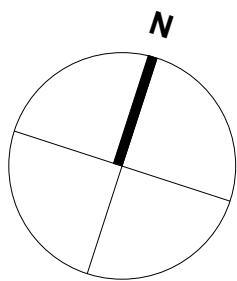
1. UNDERSIDE OF ROOF DECK AT HIGH POINTS TO BE 0.0mm BELOW ROOF DATUM ELEVATION +3400mm. EXCEPT AS NOTED ON PLAN U.O.D = UNDERSIDE OF DECK.
2. ROOF DECK TO SLOPE AS SHOWN ON THIS DRAWING.
3. TOP OF STEEL BEAMS SUPPORTING STEEL DECK ARE 0.0mm BELOW U.O.D.
4. FOR LOADING SEE ROOF LOADING SCHEDULE ON S1-01.
5. BEARING ANCHORAGES SHALL BE DESIGNED TO RESIST UPLIFT DUE TO WIND AS REQUIRED BY THE ONTARIO BUILDING CODE AND IN NO CASE LESS THAN THE GREATER OF THOSE INDICATED ON THE WIND UPLIFT KEY PLAN.
6. STEEL ROOF DECK SHALL BE DESIGNED TO SUPPORT SPECIFIED TOTAL DEAD AND LIVE LOADS. MINIMUM BASE NOMINAL THICKNESS(BMT) OF STEEL DECK SHALL BE 0.76mm.
7. NO HANGERS OR BRACKETS SUPPORTING MECHANICAL EQUIPMENT OR PIPING SHALL BE HUNG FROM ROOF DECK.
8. STEEL ROOF DECK SHALL BE INSTALLED FOR DIAPHRAGM ACTION IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE CANADIAN SHEET BUILDING INSTITUTE AND TYPICAL NOTES.
9. LOCATION OF MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT LOADS ARE TO BE CONFIRMED BY MECHANICAL CONTRACTOR BEFORE STRUCTURE STEEL IS FABRICATED. REFER TO MECHANICAL DRAWINGS. UNLESS OTHERWISE APPROVED, MECHANICAL EQUIPMENT AND PIPING MUST BE HUNG FROM ROOF FRAMING AND HANGER SPACING SHALL NOT EXCEED 3.0 M.
10. SUBMIT DETAILS TO STRUCTURAL CONSULTANT FOR REVIEW FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS.
11. "M" DENOTES MOMENT CONNECTION. FACTORED MOMENT AS SPECIFIED ON DRAWINGS IS IN kN METERS.
12. MOMENT CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. SHOP DRAWINGS AND CALCULATIONS BEARING THE STAMP AND SIGNATURE OF THE LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION.
13. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND THE SPECIFICATIONS.
14. NON-LOAD BEARING PARTITIONS SHALL BE A MINIMUM OF 25mm CLEAR OF STRUCTURE.
15. WALL PLATES (WP) SHALL HAVE LAST DIMENSION PARALLEL TO BEAM WEB. SEE SCHEDULE ON DRAWING S1-01.
16. SEE ROOF LINTEL SCHEDULE ON DRAWING S1-01.
17. REFER TO GENERAL NOTES AND SPECIFICATION FOR GRADES OF STRUCTURAL STEEL AND STEEL DECK.
18. SEE TYPICAL NOTES, TYPICAL DETAILS AND ALL OTHER DRAWINGS.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.

No.	DATE	DESCRIPTION
1	Nov. 11, 2024	Issued for Progress
2	Nov. 29, 2024	Issued for Progress
3	Dec. 20, 2024	Issued for Permit
4	Jan. 30, 2025	Issued for Client Review - Pre Tender
5	Sept. 19, 2025	Issued for Building Permit
6	Oct. 08, 2025	Issued for Tender



PROJECT NORTH



TRUE NORTH



2235 Sheppard Ave. E.  
Suite No. 1100  
Toronto, ON M2J 5B5

Stephenson Engineering, a company of Salas O'Brien



PROJECT



NEW COMFORT STATION  
HURON PARK  
RECREATION CENTRE

830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

DRAWING

PLANS

PROJECT NO. 20240909

PROJECT DATE Issue Date

DRAWN BY RP

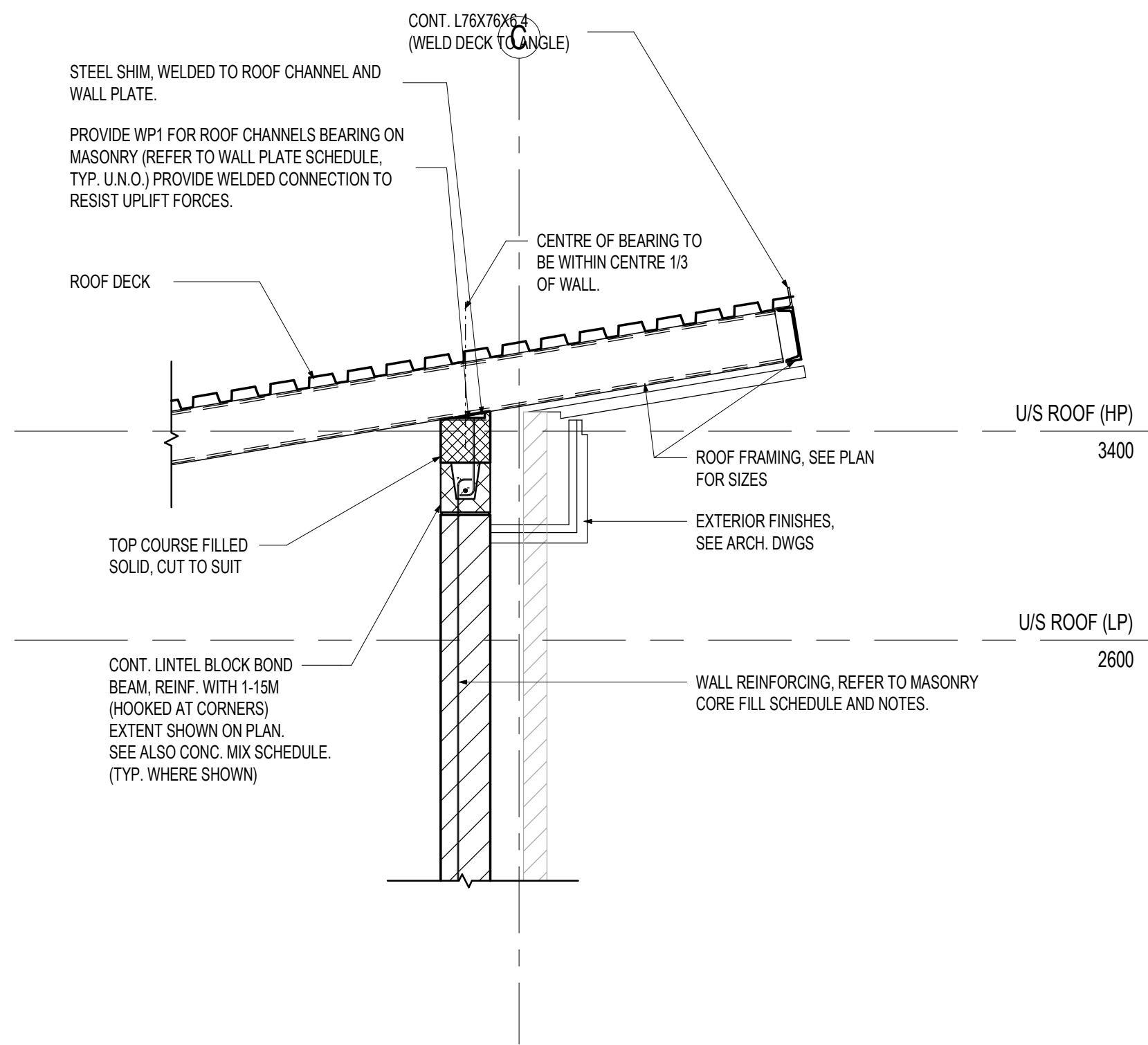
CHECKED BY CG/JG

SCALE As indicated

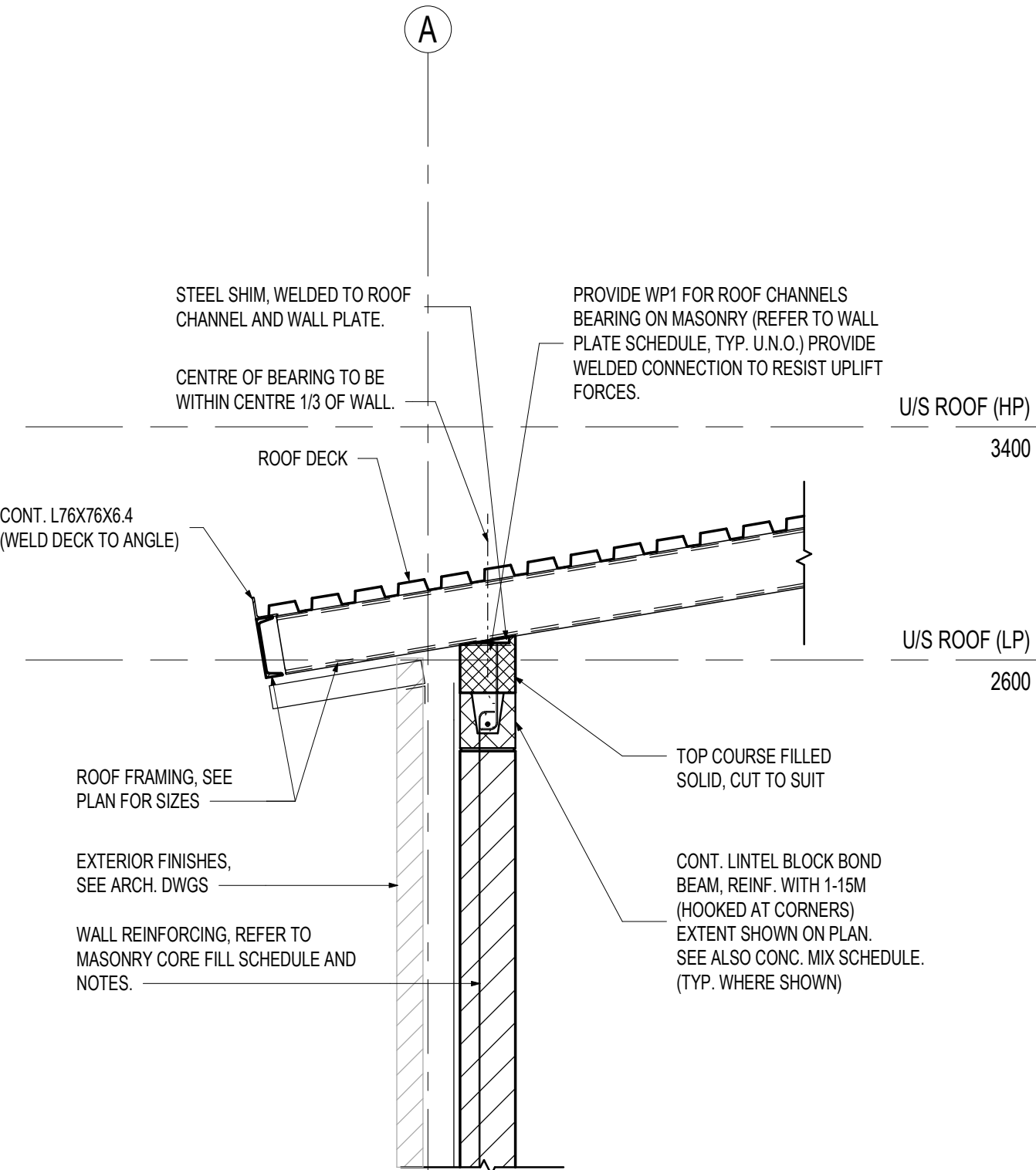
DRAWING NO.

S1-01

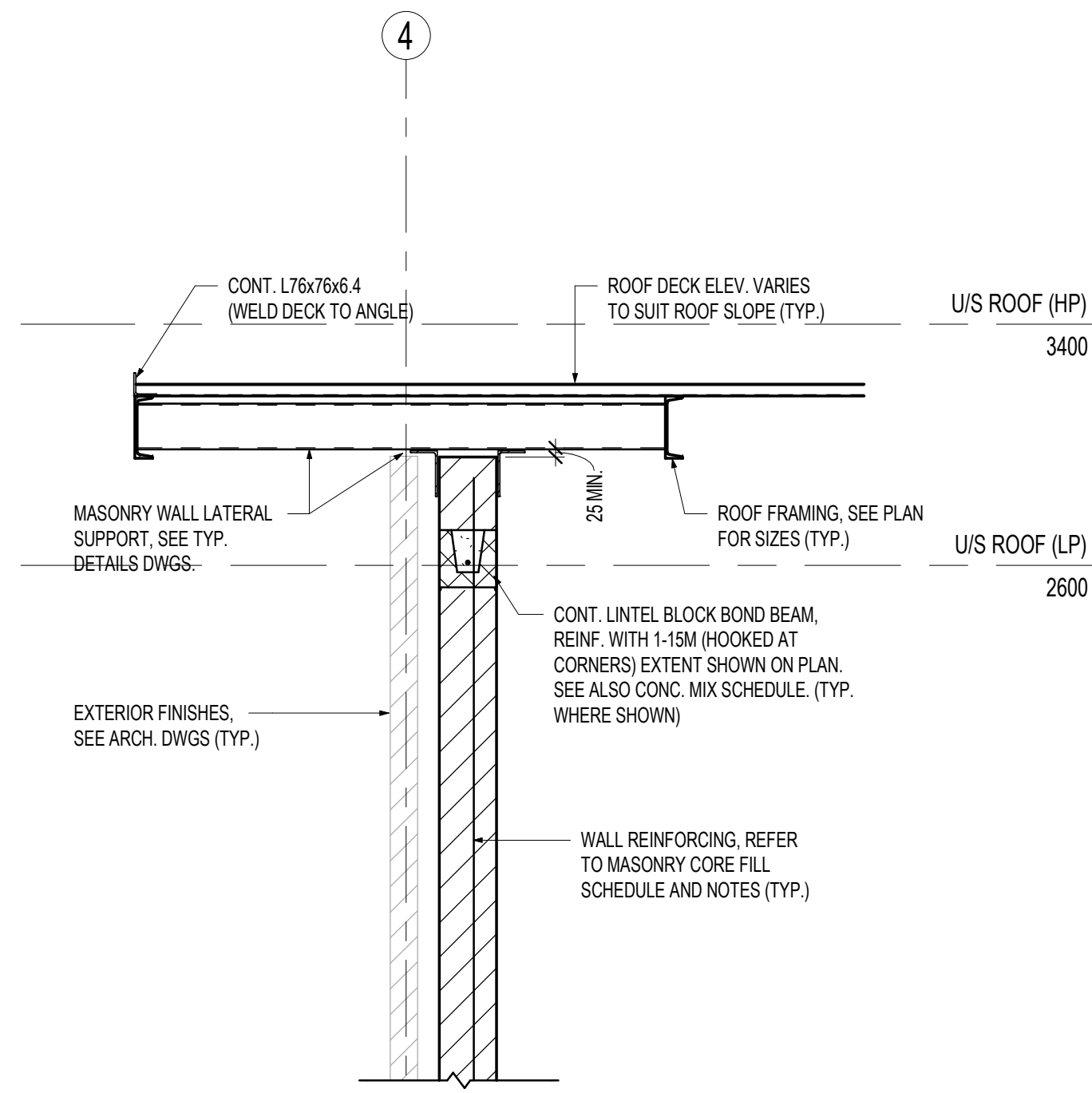




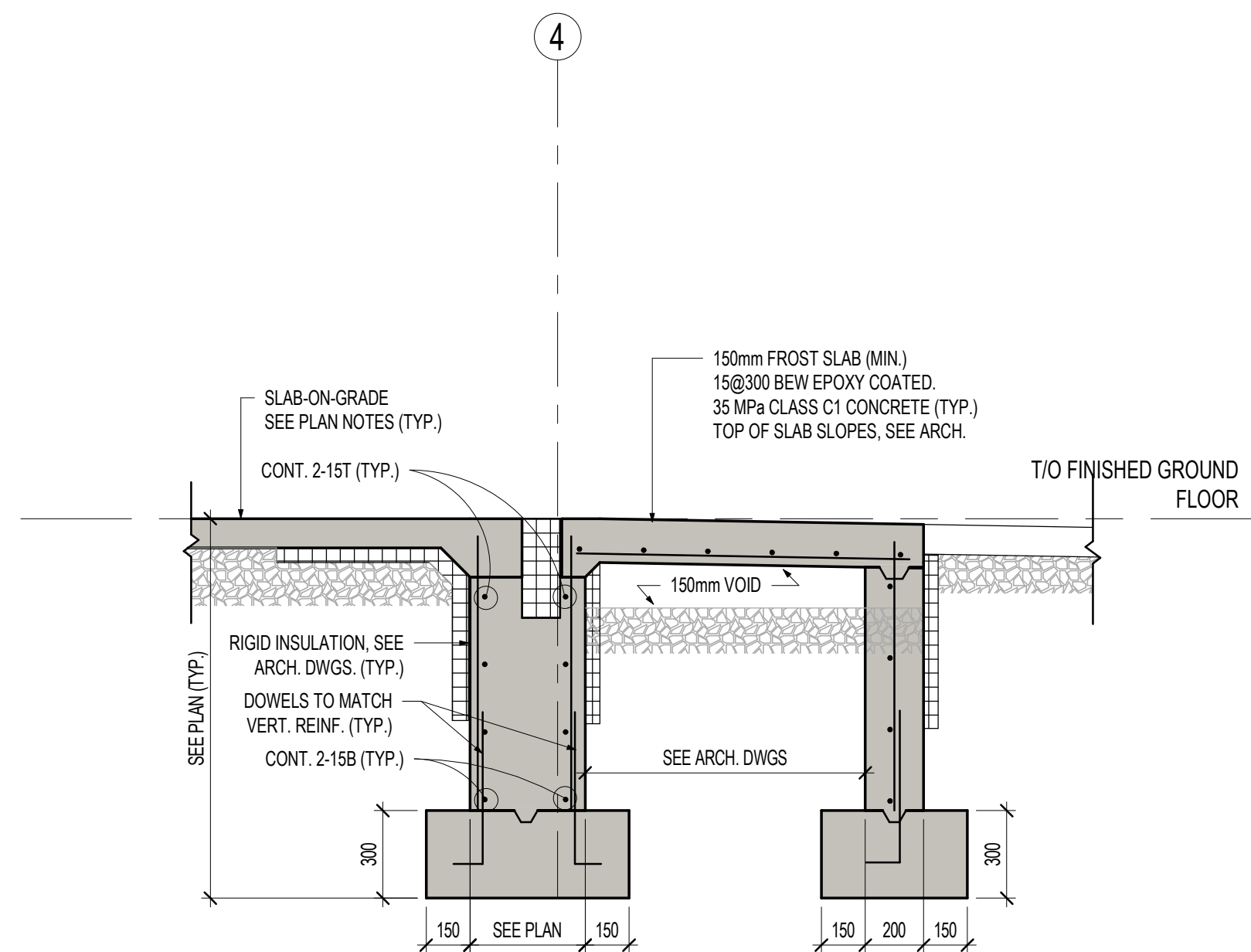
R1 SECTION  
S2-01 1:20



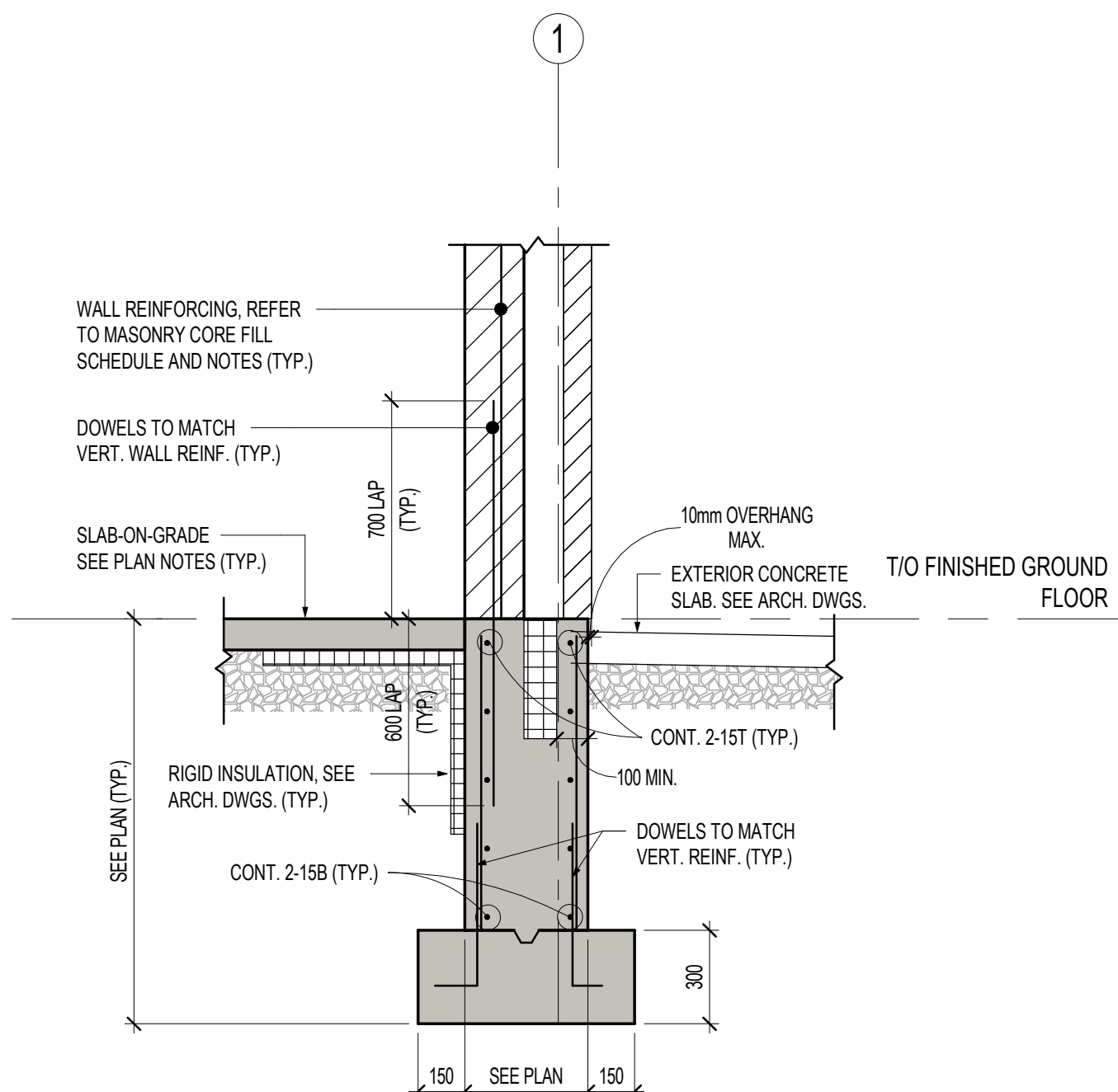
R2 SECTION  
S2-01 1:20



R3 SECTION  
S2-01 1:20



F1 SECTION  
S2-01 1:20



F2 SECTION  
S2-01 1:20

TABLE 1: FOUNDATION WALL REINFORCING (UNO)					
WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT		WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT	
	HORIZONTAL	VERTICAL		HORIZONTAL	VERTICAL
≤ 190/200	10@320H (CENTERED)	10@440V (CENTERED)	≤ 450	15@440 HEF	10@280 VEF
≤ 250	10@400 HEF	10@450 VEF	≤ 500	15@400 HEF	15@460 VEF
≤ 300	10@320 HEF	10@440 VEF	≤ 600	15@320 HEF	15@440 VEF
≤ 350	10@280 HEF	10@380 VEF			
≤ 400	10@240 HEF	10@320 VEF			

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SECTIONS

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S2-01







STRUCTURAL STEEL NOTES	A04A	COMPRESSION-TENSION DEVELOPMENT AND LAP LENGTHS Fy = 400 MPa	C02A	TENSION DEVELOPMENT AND LAP SPLICE LENGTHS Fy = 400 MPa	C02B																																																																																																																																																																																																																																																																																																																																																																																																																						
<div>1. GENERAL</div> <div>1.1. STRUCTURAL STEEL DESIGN DETAILS AND CONNECTIONS SHALL CONFORM TO CSA STANDARD S16 AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER EXPERIENCED IN THIS TYPE OF WORK.</div> <div>1.2. REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND TO THE SPECIFICATION.</div> <div>1.3. WELDING SHALL CONFORM TO CSA STANDARD W59 AND BE PERFORMED BY A FABRICATOR CERTIFIED TO CSA W47.1.</div> <div>1.4. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF FACTORED VERTICAL SHEAR FORCE OF 50% OF THE BEAM SHEAR CAPACITY, UNLESS OTHERWISE NOTED, AND IN NO CASE BE LESS THAN THE LOADS SHOWN ON OR IMPLIED BY THE DRAWINGS, WHERE BOLTED CONNECTIONS ARE UTILIZED. A MINIMUM OF TWO BOLTS PER CONNECTION SHALL BE USED.</div> <div>1.5. MEMBER CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER FOR FORCES AND MOMENTS INDICATED. SHOP DRAWINGS (AND CALCULATIONS) BEARING THE STAMP AND SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION.</div> <div>2. PRODUCTS</div> <div>2.1. STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA-G40.20/G40.21</div> <div>2.1.1. S SHAPES, PLATES AND RODS - GRADE 500 W</div> <div>2.1.2. HSS SECTIONS - GRADE 350W (CLASS C UN)</div> <div>2.1.3. WVF SHAPES, WT SHAPES AND W SHAPES, CHANNELS, ANGLES, - GRADE 350W</div> <div>2.2. BOLTS FOR CONNECTIONS TO CONFORM TO ASTM F3125/3125M, GRADE A305, UNLESS NOTED.</div> <div>2.3. ANCHOR RODS FOR BASE PLATES, BEARING PLATES AND WELD PLATES TO CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED.</div> <div>2.4. NUTS AND WASHERS TO CONFORM TO ASTM A505 AND ASTM F436</div> <div>2.5. SHEAR STUDS WHERE REQUIRED TO CONFORM TO ASTM A108, WELDING TO CONFORM TO CSA W59.</div> <div>2.6. WELDING MATERIALS TO CONFORM TO CSA W48</div> <div>2.7. SURFACE PREPARATION AND PRIMER PAINT FOR STRUCTURAL STEEL MEMBERS INSIDE VAPOUR BARRIER TO CONFORM TO CIS/CPMA 1.73a OR CIS/CPMA 2.75 (IF EXPOSED TO VIEW), UNLESS NOTED ON DRAWINGS OR SPECIFICATIONS.</div> <div>2.8. HOT DIP GALVANIZING WITH A MINIMUM ZINC COATING OF 600g/sq.m UNLESS OTHERWISE SPECIFIED.</div> <div>3. ERECTION</div> <div>3.1. FABRICATION, HANDLING AND ERECTION TO CONFORM TO CAN CSA - S16</div> <div>3.2. PROVIDE A MINIMUM OF 2-12 mm (1/2") DIAMETER BY 250 (10") LONG WALL ANCHORS FOR ALL BEAM WALL PLATES ON MASONRY, OR AN APPROVED EQUAL, UNLESS OTHERWISE NOTED. BEAMS TO BE WELDED TO BEARING PLATES.</div> <div>3.3. PROVIDE ADJUSTABLE ANCHORS TO ALL STEEL TO BE BUILT INTO, ABUTTED BY, OR FACED WITH MASONRY (REFER ALSO TO TYPICAL DETAILS IF SHOWN). SPACING OF ANCHORS TO BE: FOR VERTICAL SPACING: 600 (24") MAX. CENTRES FOR HORIZONTAL SPACING: 10 TIMES WALL THICKNESS" (MAX. 200 (8'-0") CENTRES) (* NOTE, USE BACK-UP WYTHE THICKNESS ONLY, FOR CAVITY WALLS.)</div> <div>3.4. WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY ( I.E. DOES NOT SUPPORT MASONRY) ANCHORS SHALL PERMIT DIFFERENTIAL VERTICAL MOVEMENT BETWEEN STRUCTURAL MEMBERS AND MASONRY.</div> <div>3.5. PROVIDE 1:10X10X6/4(MIN) ANGLE SEATS FOR ALL STEEL DECK AT LOCATIONS WHERE THE CONNECTION TO SUPPORTING FRAMING IS INTERRUPTED. (EG. AT COLUMNS)</div> <div>3.6. CLEAN, PREPARE SURFACES AND SHOP PRIME STRUCTURAL STEEL WITH ONE COAT OF SPECIFIED PRIMER PAINT IN ACCORDANCE WITH CAN/CSA - S16, EXCEPT WHERE MEMBERS ARE TO BE ENCASED IN CONCRETE, OR TO RECEIVE SPRAY APPLIED FIRE PROOFING. FIELD * TOUCH-UP BOLTS, WELDS, BURNED OR SCRAPED SURFACES AFTER ERECTION.</div> <div>3.7. PROVIDE ALL NECESSARY TEMPORARY BRACING TO KEEP STRUCTURE SAFE AND PLUMB, BRACING SHOWN ON STRUCTURAL DRAWINGS IS PERMANENT FOR FINISHED BUILDING ONLY.</div> <div>3.8. CO-ORDINATE WITH MECHANICAL AND ELECTRICAL CONSULTANTS AND SUB-TRADES WHOSE WORK MAY AFFECT DETAILING, FABRICATION AND ERECTION OF THE STEEL STRUCTURE.</div> <div>3.9. TOLERANCES: VARIATION FROM PLUMB AND LEVEL EXTERIOR COLUMNS, COLUMNS AT ELEVATOR SHAFTS, AND SPANDREL BEAMS INCLUDING ANGLES OTHER PIECES 1:1000 MAX. 25 mm (10" IN 10'-0") 1500 ( 1/4" IN 10'-0")</div> <div>3.10. NO HOLES OTHER THAN THOSE SHOWN ON REVIEWED SHOP DRAWINGS SHALL BE. MADE IN ANY STEEL MEMBER WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL CONSULTANT.</div> <div>4. QUALITY CONTROL</div> <div>4.1. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES, AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.</div> <div>4.2. SEE SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS.</div>	<div>NOTES</div> <div>1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOWS</div> <div>CLS - COMPRESSION LAP SPLICE</div> <div>CDL - COMPRESSION DEVELOPMENT LENGTH</div> <div>HEL - HOOK EMBEDMENT LENGTH</div>	COMPRESSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 400 MPa)		<div>NOTES</div> <div>1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOWS</div> <div>TLS - TENSION LAP SPLICE</div> <div>TDL - TENSION DEVELOPMENT LENGTH</div>																																																																																																																																																																																																																																																																																																																																																																																																																							
		<div>CLS: COMPRESSION LAP SPLICE LENGTH (mm)</div> <table><tr><th colspan="8">UNCOATED BLACK BAR</th></tr><tr><th>10M</th><th>15M</th><th>20M</th><th>25M</th><th>30M</th><th>35M</th><th>45M</th><th>55M</th></tr><tr><td>300</td><td>440</td><td>590</td><td>730</td><td>880</td><td>1030</td><td colspan="2">NOT PERMITTED</td></tr></table> <div>CDL: COMPRESSION DEVELOPMENT LENGTH (mm)</div> <table><tr><th>fc'</th><th colspan="8">UNCOATED BLACK BAR</th></tr><tr><th></th><th>10M</th><th>15M</th><th>20M</th><th>25M</th><th>30M</th><th>35M</th><th>45M</th><th>55M</th></tr><tr><td>20MPa</td><td>250</td><td>340</td><td>420</td><td>540</td><td>640</td><td>770</td><td>940</td><td>1210</td></tr><tr><td>25MPa</td><td>220</td><td>310</td><td>370</td><td>600</td><td>570</td><td>690</td><td>840</td><td>1080</td></tr><tr><td>30MPa</td><td>200</td><td>280</td><td>340</td><td>440</td><td>530</td><td>630</td><td>770</td><td>990</td></tr><tr><td>35MPa</td><td>200</td><td>280</td><td>340</td><td>440</td><td>530</td><td>630</td><td>770</td><td>990</td></tr><tr><td>40MPa</td><td>200</td><td>280</td><td>340</td><td>440</td><td>530</td><td>630</td><td>770</td><td>990</td></tr><tr><td>&gt; 40 MPa</td><td colspan="8">SEE MINIMUM VALUES FOR Fc = 40 MPa</td></tr></table> <div>NOTES:</div> <div>1. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED: a. MULTIPLY BY 1.1 (TWO BAR BUNDLES) b. MULTIPLY BY 1.2 (THREE BAR BUNDLES) c. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)</div> <div>2. FOR EMBEDMENTS ENCLOSED IN SPIRALS, MULTIPLY BY 0.75, BUT NOT LESS THAN 200mm.</div>		UNCOATED BLACK BAR								10M	15M	20M	25M	30M	35M	45M	55M	300	440	590	730	880	1030	NOT PERMITTED		fc'	UNCOATED BLACK BAR									10M	15M	20M	25M	30M	35M	45M	55M	20MPa	250	340	420	540	640	770	940	1210	25MPa	220	310	370	600	570	690	840	1080	30MPa	200	280	340	440	530	630	770	990	35MPa	200	280	340	440	530	630	770	990	40MPa	200	280	340	440	530	630	770	990	> 40 MPa	SEE MINIMUM VALUES FOR Fc = 40 MPa								<div>TLS: TENSION LAP SPLICE LENGTH (CLASS B) (mm)</div> <table><tr><th colspan="12">UNCOATED BLACK BAR</th></tr><tr><th rowspan="2">fc'</th><th colspan="2">10M</th><th colspan="2">15M</th><th colspan="2">20M</th><th colspan="2">25M</th><th colspan="2">30M</th><th>35M</th></tr><tr><th>Top</th><th>Bottom</th><th>Top</th><th>Bottom</th><th>Top</th><th>Bottom</th><th>Top</th><th>Bottom</th><th>Top</th><th>Bottom</th><th>Bottom</th></tr><tr><td>20MPa</td><td>550</td><td>420</td><td>820</td><td>630</td><td>1090</td><td>840</td><td>1710</td><td>1310</td><td>2050</td><td>1570</td><td>2390</td></tr><tr><td>25MPa</td><td>490</td><td>380</td><td>740</td><td>570</td><td>980</td><td>750</td><td>1530</td><td>1170</td><td>1830</td><td>1410</td><td>2130</td></tr><tr><td>30MPa</td><td>450</td><td>350</td><td>670</td><td>520</td><td>890</td><td>690</td><td>1390</td><td>1070</td><td>1670</td><td>1290</td><td>1950</td></tr><tr><td>35MPa</td><td>420</td><td>320</td><td>620</td><td>480</td><td>830</td><td>640</td><td>1290</td><td>990</td><td>1550</td><td>1190</td><td>1800</td></tr><tr><td>40MPa</td><td>390</td><td>300</td><td>580</td><td>450</td><td>770</td><td>600</td><td>1210</td><td>930</td><td>1450</td><td>1110</td><td>1690</td></tr><tr><td>45MPa</td><td>370</td><td>300</td><td>550</td><td>420</td><td>730</td><td>560</td><td>1140</td><td>880</td><td>1370</td><td>1050</td><td>1590</td></tr><tr><td>50MPa</td><td>350</td><td>300</td><td>520</td><td>400</td><td>690</td><td>530</td><td>1080</td><td>830</td><td>1300</td><td>1000</td><td>1510</td></tr><tr><td>55MPa</td><td>330</td><td>300</td><td>500</td><td>380</td><td>660</td><td>510</td><td>1030</td><td>790</td><td>1240</td><td>950</td><td>1440</td></tr><tr><td>60MPa</td><td>320</td><td>300</td><td>480</td><td>370</td><td>630</td><td>490</td><td>990</td><td>760</td><td>1180</td><td>910</td><td>1380</td></tr><tr><td>64MPa</td><td>310</td><td>300</td><td>460</td><td>360</td><td>610</td><td>470</td><td>960</td><td>740</td><td>1150</td><td>880</td><td>1340</td></tr></table> <div>TDL: TENSION DEVELOPMENT LENGTH (mm) CLASS "A" LAP SPLICE</div> <table><tr><th colspan="12">UNCOATED BLACK BAR</th></tr><tr><th rowspan="2">fc'</th><th colspan="2">10M</th><th colspan="2">15M</th><th colspan="2">20M</th><th colspan="2">25M</th><th colspan="2">30M</th><th>35M</th></tr><tr><th>Top</th><th>Bottom</th><th>Top</th><th>Bottom</th><th>Top</th><th>Bottom</th><th>Top</th><th>Bottom</th><th>Top</th><th>Bottom</th><th>Bottom</th></tr><tr><td>20MPa</td><td>420</td><td>330</td><td>630</td><td>490</td><td>840</td><td>650</td><td>1310</td><td>1010</td><td>1570</td><td>1210</td><td>1840</td></tr><tr><td>25MPa</td><td>380</td><td>300</td><td>570</td><td>440</td><td>750</td><td>580</td><td>1170</td><td>900</td><td>1410</td><td>1080</td><td>1640</td></tr><tr><td>30MPa</td><td>350</td><td>300</td><td>520</td><td>400</td><td>690</td><td>530</td><td>1070</td><td>830</td><td>1290</td><td>990</td><td>1500</td></tr><tr><td>35MPa</td><td>320</td><td>300</td><td>480</td><td>370</td><td>640</td><td>490</td><td>990</td><td>770</td><td>1190</td><td>920</td><td>1390</td></tr><tr><td>40MPa</td><td>300</td><td>300</td><td>450</td><td>350</td><td>600</td><td>460</td><td>930</td><td>720</td><td>1110</td><td>860</td><td>1300</td></tr><tr><td>45MPa</td><td>300</td><td>300</td><td>420</td><td>330</td><td>560</td><td>430</td><td>880</td><td>680</td><td>1050</td><td>810</td><td>1230</td></tr><tr><td>50MPa</td><td>300</td><td>300</td><td>400</td><td>310</td><td>530</td><td>410</td><td>830</td><td>640</td><td>1000</td><td>770</td><td>1160</td></tr><tr><td>55MPa</td><td>300</td><td>300</td><td>380</td><td>300</td><td>510</td><td>390</td><td>790</td><td>610</td><td>950</td><td>730</td><td>1110</td></tr><tr><td>60MPa</td><td>300</td><td>300</td><td>370</td><td>300</td><td>490</td><td>380</td><td>760</td><td>590</td><td>910</td><td>700</td><td>1060</td></tr><tr><td>64MPa</td><td>300</td><td>300</td><td>360</td><td>300</td><td>470</td><td>360</td><td>740</td><td>570</td><td>880</td><td>680</td><td>1030</td></tr></table> <div>NOTES:</div> <div>1. VALUES PROVIDED ARE BASED ON NORMAL WEIGHT CONCRETE AND MUST BE INCREASED FOR LIGHTWEIGHT CONCRETES: a. MULTIPLY BY 1.2 (FOR SEMI-LOW DENSITY CONCRETE) b. MULTIPLY BY 1.3 (FOR LOW-DENSITY CONCRETE)</div> <div>2. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED: a. MULTIPLY BY 1.1 (TWO BAR BUNDLES) b. MULTIPLY BY 1.2 (THREE BAR BUNDLES) c. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)</div>		UNCOATED BLACK BAR												fc'	10M		15M		20M		25M		30M		35M	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Bottom	20MPa	550	420	820	630	1090	840	1710	1310	2050	1570	2390	25MPa	490	380	740	570	980	750	1530	1170	1830	1410	2130	30MPa	450	350	670	520	890	690	1390	1070	1670	1290	1950	35MPa	420	320	620	480	830	640	1290	990	1550	1190	1800	40MPa	390	300	580	450	770	600	1210	930	1450	1110	1690	45MPa	370	300	550	420	730	560	1140	880	1370	1050	1590	50MPa	350	300	520	400	690	530	1080	830	1300	1000	1510	55MPa	330	300	500	380	660	510	1030	790	1240	950	1440	60MPa	320	300	480	370	630	490	990	760	1180	910	1380	64MPa	310	300	460	360	610	470	960	740	1150	880	1340	UNCOATED BLACK BAR												fc'	10M		15M		20M		25M		30M		35M	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Bottom	20MPa	420	330	630	490	840	650	1310	1010	1570	1210	1840	25MPa	380	300	570	440	750	580	1170	900	1410	1080	1640	30MPa	350	300	520	400	690	530	1070	830	1290	990	1500	35MPa	320	300	480	370	640	490	990	770	1190	920	1390	40MPa	300	300	450	350	600	460	930	720	1110	860	1300	45MPa	300	300	420	330	560	430	880	680	1050	810	1230	50MPa	300	300	400	310	530	410	830	640	1000	770	1160	55MPa	300	300	380	300	510	390	790	610	950	730	1110	60MPa	300	300	370	300	490	380	760	590	910	700	1060	64MPa	300	300	360	300	470	360	740	570	880	680	1030
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TYPICAL DETAIL LIST	
DETAIL NAME	SHEET NUMBER
A07-LINTEL NOTES	S3-01
A06-LOAD BEARING MASONRY NOTES	S3-01
A02-GENERAL NOTES	S3-01
A03.1-CAST-IN-PLACE CONCRETE NOTES	S3-01
A01-STANDARD ABBREVIATIONS	S3-01
A05-STEEL DECK NOTES	S3-01
A04A-STRUCTURAL STEEL NOTES	S3-02
C02A COMPRESSION-TENSION LAP LENGTHS PART 1 OF 2	S3-02
C02B TENSION LAP LENGTHS PART 2 OF 2	S3-02
C01 TYPICAL CONCRETE COVER TABLE	S3-02
A03.2-CAST-IN-PLACE CONCRETE NOTES	S3-01
CFW02A TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS	S3-03
CFW02B TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS	S3-03
CG02 THICKENING OF SLAB ON GRADE	S3-03
CW02 TYPICAL DETAIL OF OPENINGS IN CONCRETE WALL	S3-04
CW01 TYPICAL JOINTS IN CONCRETE SHEAR WALLS	S3-04
CS09 TYPICAL SLAB DEPRESSION REINFORCING DETAILS	S3-04
CG01A SLAB ON GRADE DETAILS	S3-03
CG01B SLAB ON GRADE DETAILS	S3-03
CG01C SLAB ON GRADE DETAILS	S3-03
F09 TYPICAL STEPPED FOOTING DETAILS	S3-04
SB01-STEEL BEAM AND GIRDER DESIGNATIONS	S3-04
SB02A-ERECTION TOLERANCES FOR STRUCTURAL STEEL BEAMS	S3-04
SB02B-ERECTION TOLERANCES FOR STRUCTURAL STEEL BEAMS	S3-04
M04-TYPICAL ELEVATION REINFORCED MASONRY WALLS AND PIERS	S3-05
M03-TYPICAL PLAN DETAIL REINFORCED EXTERIOR MASONRY WALLS AND PIERS PLAN DETAIL	S3-05
M01A-NON-LOAD BEARING BLOCK WALL LINTELS	S3-05
M07-TYPICAL MASONRY WALL REINFORCING SCHEDULE NOTES	S3-05
M08-TYPICAL STEEL BEAM BEARING ON MASONRY WALL (PERPENDICULAR)	S3-06
M09-TYPICAL STEEL BEAM BEARING ON END OR CORNER OF MASONRY WALL (MINIMUM REQUIREMENTS)	S3-06
M10-TYPICAL DETAIL AT CONTROL JOINT IN REINFORCED MASONRY WALL	S3-06
M01B-TYPICAL LINTEL DETAILS	S3-05
M14A-TYPICAL LATERAL SUPPORT AT PARTITIONS	S3-06
M06-TYPICAL DETAIL OF CONSTRUCTED CORNERS IN SINGLE WYTHE MASONRY WALLS (NO CONTROL JOINT)	S3-05
M07A.1 NON LOAD-BEARING MASONRY PARTITION REINFORCING SCHEDULE_2024	S3-05

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.

No.	DATE	DESCRIPTION
1	Nov. 11, 2024	Issued for Progress
2	Nov. 29, 2024	Issued for Progress
3	Dec. 20, 2024	Issued for Permit
4	Jan. 30, 2025	Issued for Client Review - Pre Tender
5	Sept. 19, 2025	Issued for Building Permit
6	Oct. 08, 2025	Issued for Tender

TYPICAL CONCRETE COVER TABLE					C01
			CONCRETE EXPOSURE (1,2,3)		
			CHLORIDES WITH / WITHOUT FREEZE / THAW		NO CHLORIDES WITH FREEZE / THAW
			PROTECTED AREA	UNPROTECTED AREA	EXTERIOR EXPOSED CONCRETE
ELEMENTS EXPOSED TO EARTH	PROJECT SPECIFIC COMMENTS	BAR SIZE	COVER (mm)		NO CHLORIDES OR FREEZE / THAW GENERAL NON-EXPOSED CONCRETE
PERMANENTLY EXPOSED TO SOIL		ALL SIZES	GREATER OF 60mm OR 2.0d	GREATER OF 40mm OR 1.5d	
CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL (U/S OF FOOTINGS)		ALL SIZES	75		
<b>TABLE NOTES</b> 1. REFER TO CONCRETE MIX DESIGN TABLE FOR EXPOSURE CLASSIFICATION OF STRUCTURAL ELEMENTS. 2. CONCRETE COVER VALUES NOTED IN THE TABLE ARE BASED ON THE GREATER OF CONCRETE EXPOSURE (CSA A23.1-19, CSA S413-21) AND FIRE RATING (NBCC 2020) REQUIREMENTS. 3. CONCRETE COVER SHALL BE MEASURED FOR THE DEEPEST POINT OF TEXTURED CONCRETE SURFACE TO THE NEAREST DEFORMATION OF REINFORCEMENT. REINFORCEMENT INCLUDES TIES, STIRRUPS AND MAIN BARS. 4. THE REQUIRED CONCRETE COVER FOR FIRE RATING OF MAIN BAR IS ACHIEVED BY PROVIDING THE COVER VALUE NOTED FROM THE DEEPEST POINT OF TEXTURED CONCRETE SURFACE TO THE NEAREST DEFORMATION OF 10mm TIE OR STIRRUP REINFORCEMENT. 5. FOR FIRE RATING REFER TO ARCHITECTURAL DRAWINGS. FIRE RATING FOR STRUCTURAL ELEMENTS SHALL BE ASSUMED TO BE 2 HOURS UNLESS NOTED OTHERWISE. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCY IN FIRE RATING BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS. 6. FOR FOUNDATION WALLS CAST AGAINST MIRADRAIN WATERPROOFING, EXPOSURE CATEGORY ON EXTERIOR FACE SHALL BE CONSIDERED AS NO CHLORIDES OR FREEZE / THAW.					



2235 Sheppard Ave. E.  
Suite No. 1100  
Toronto, ON M2J 5B5  
Stephenson Engineering, a company of Salas O'Brien



NEW COMFORT STATION  
HURON PARK  
RECREATION CENTRE

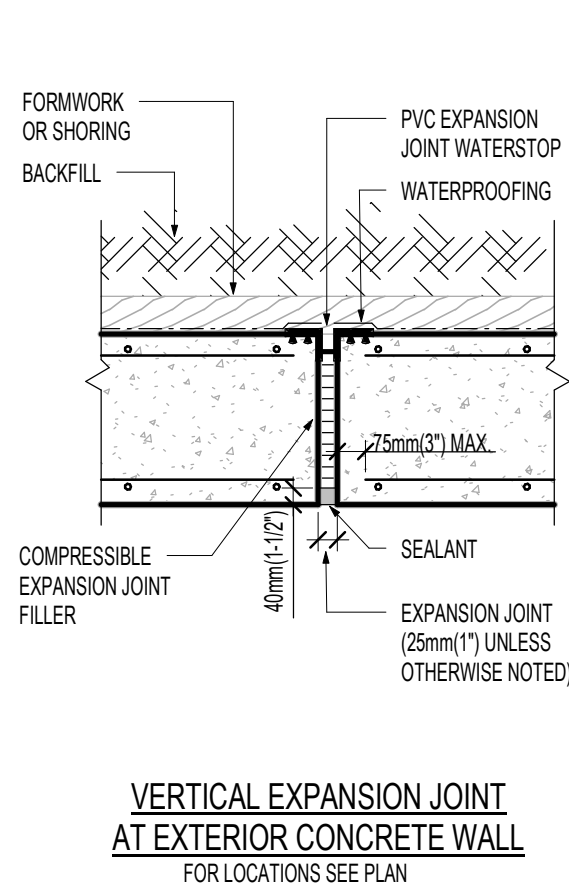
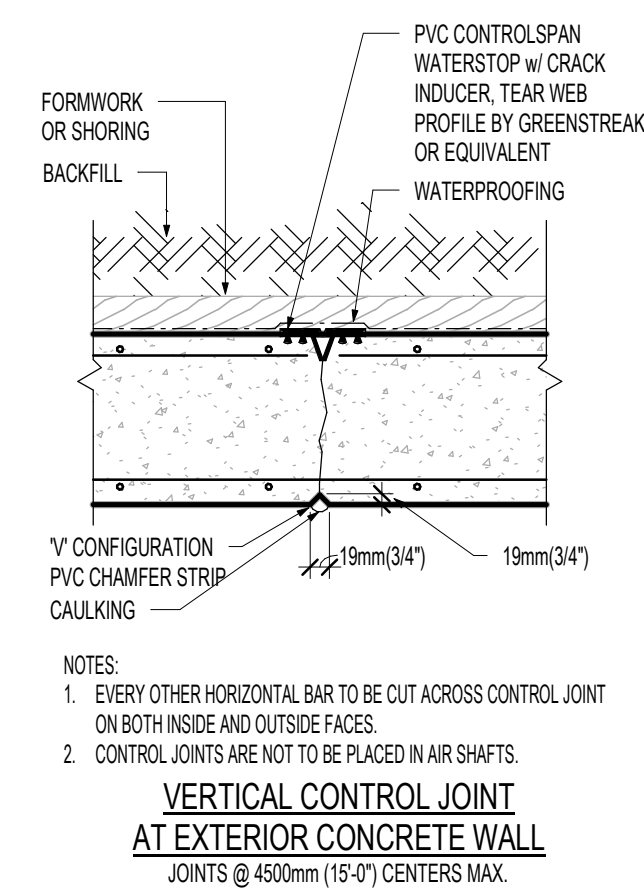
830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

DRAWING	
GENERAL NOTES AND TYPICAL DETAILS	
PROJECT NO.	20240909
PROJECT DATE	Issue Date
DRAWN BY	RP
CHECKED BY	CG/JG
SCALE	1 : 1
DRAWING NO.	
S3-02	



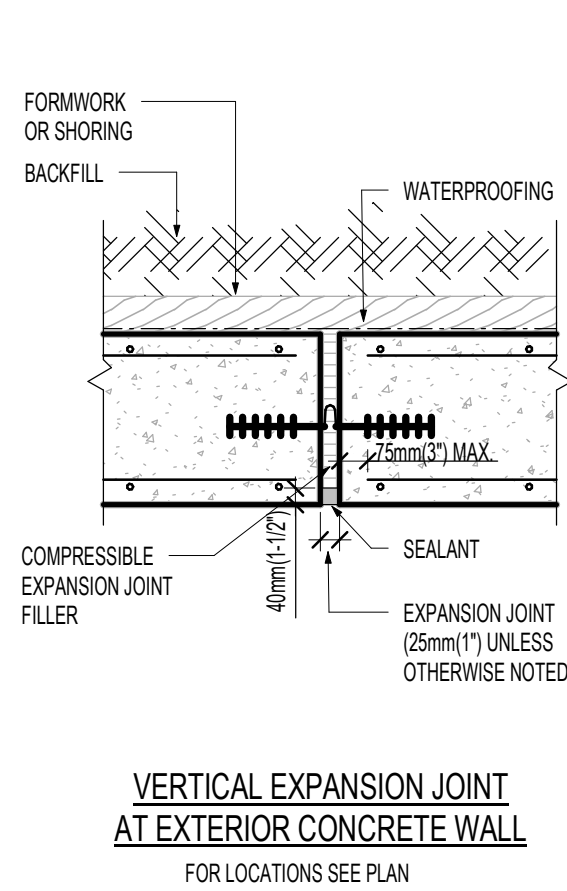
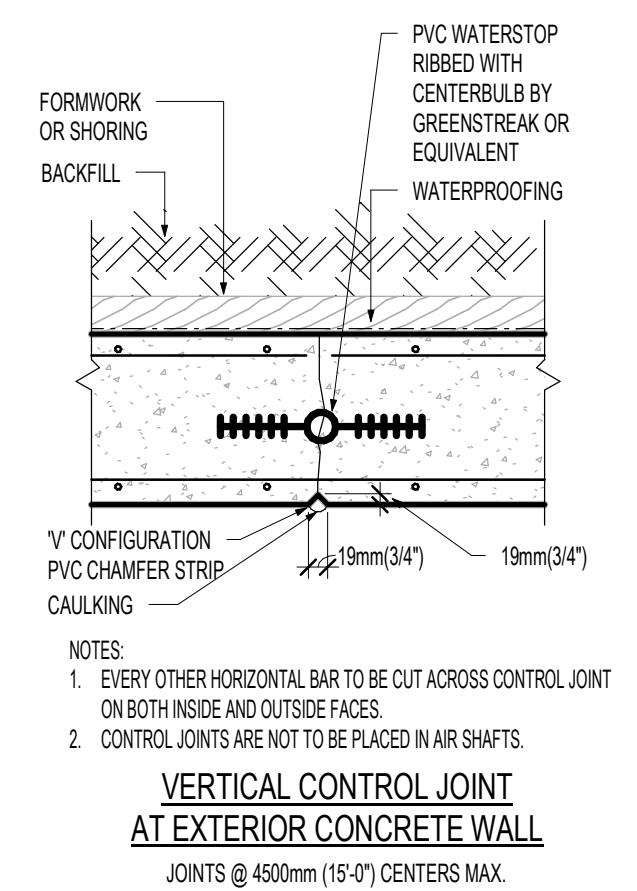
## TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS

CFW02A



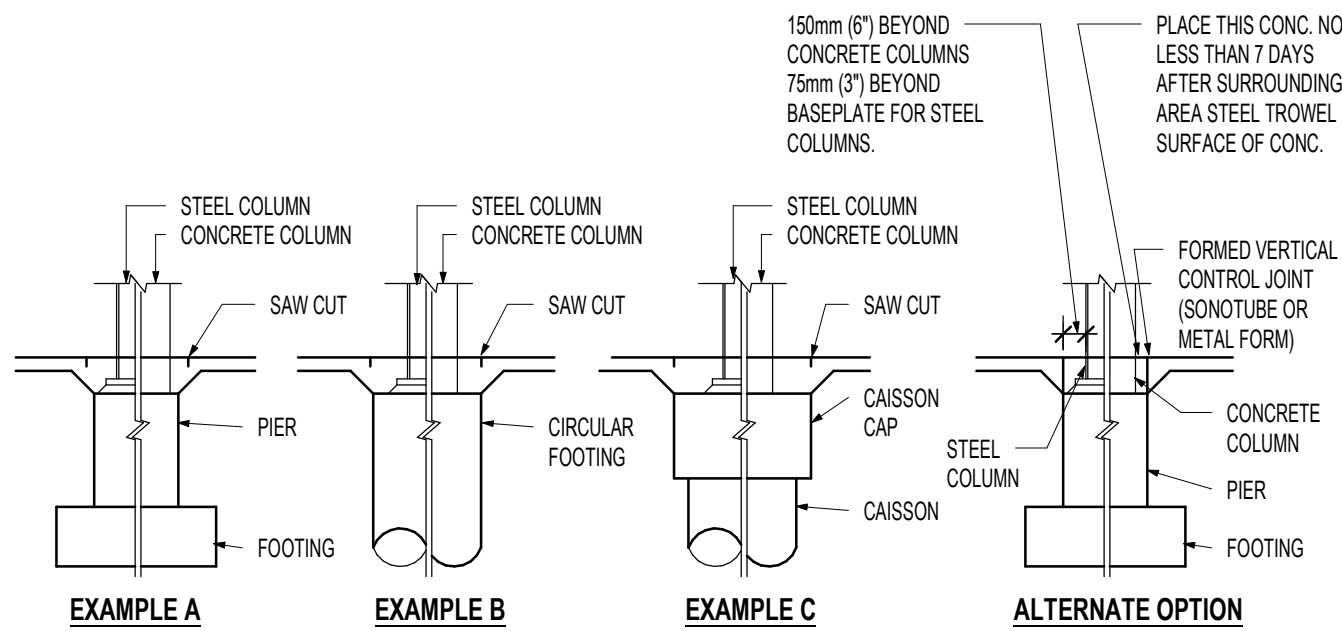
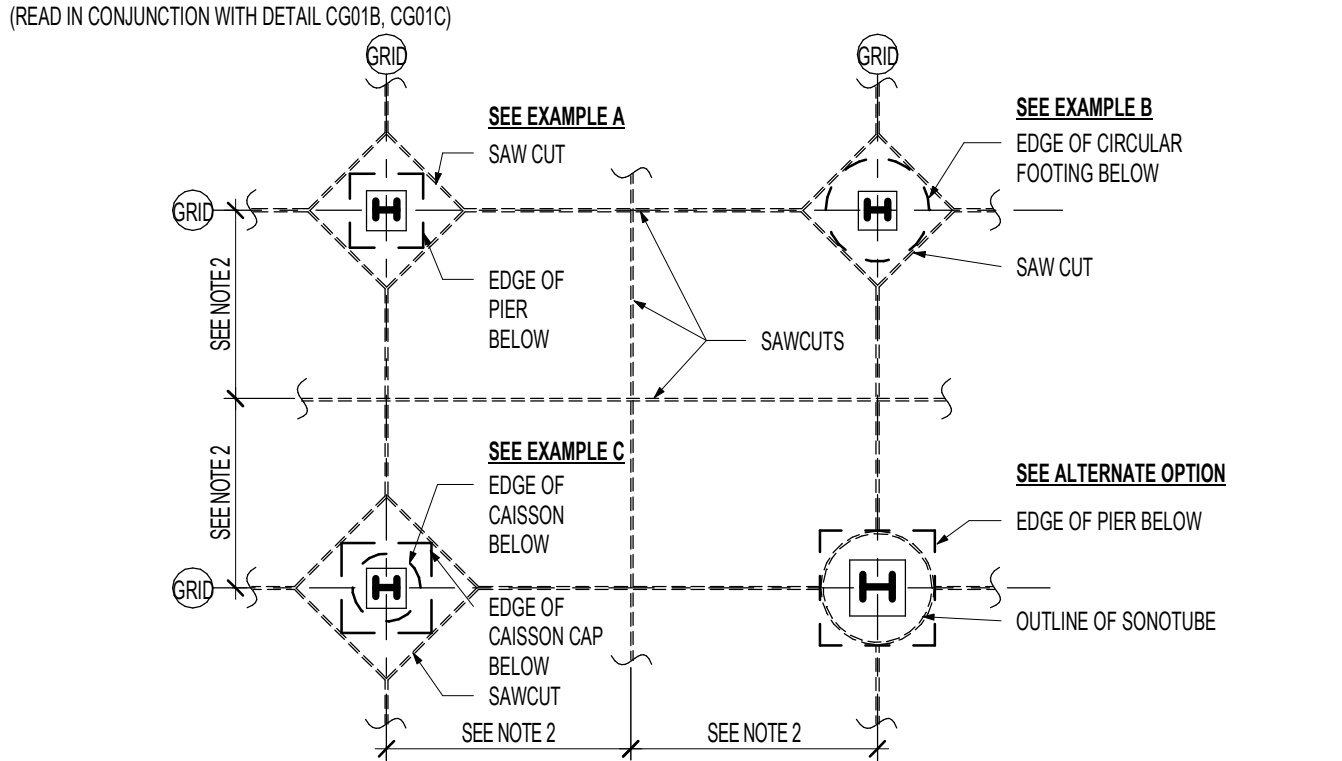
## TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS

CFW02B



## SLAB ON GRADE DETAILS

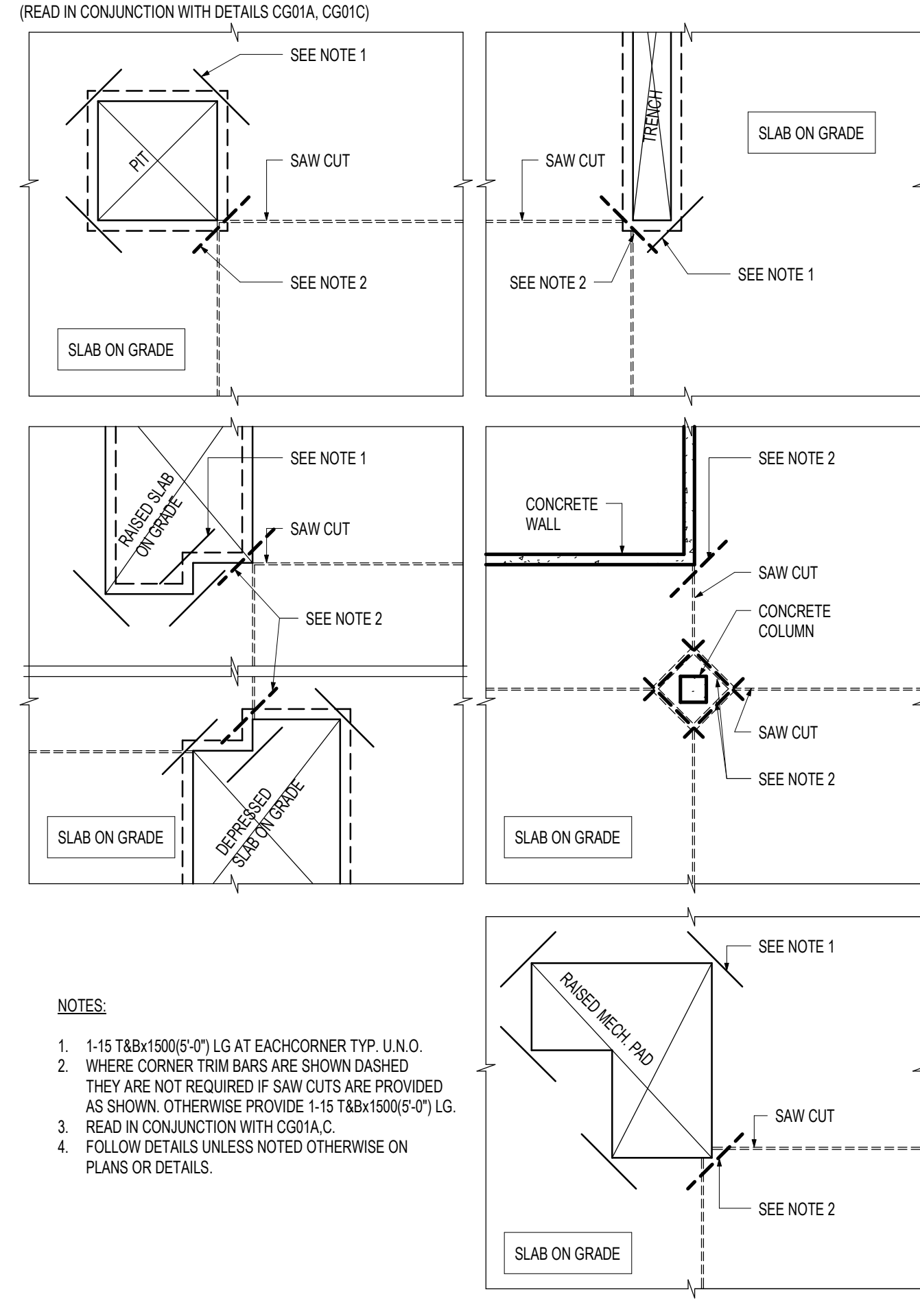
CG01A



- NOTES:
1. SAWCUTTING TO BE DONE AS SOON AS POSSIBLE AFTER SLAB IS PLACED. (MAX. 24 HOURS).
  2. JOINTS TO BE AT MAX. 24x SLAB THICKNESS FOR MAXIMUM AGGREGATE SIZE SMALLER THAN 19mm (3/4\") AND 30 TIMES SLAB THICKNESS FOR AGGREGATE SIZE LARGER THAN 19mm (3/4\") BUT NOT MORE THAN 450mm (14'-0\").
  3. MAXIMUM RATIO BETWEEN LENGTH AND WIDTH OF ANY PANEL (CREATED BY SAWCUT) SHOULD NOT EXCEED 1.5.
  4. COORDINATE EXACT LOCATIONS OF SAWCUTS IN SLAB ON GRADE WITH ARCHITECTURAL REQUIREMENTS.
  5. SAWCUT SLAB ON GRADE AT LOCATIONS SHOWN ON PLAN OR AS NOTED BELOW. ALTERNATE LOCATIONS SHALL BE SUBMITTED TO CONSULTANT FOR REVIEW, WELL IN ADVANCE OF POURING SLAB ON GRADE.
  6. AFTER THE SLAB IS A MINIMUM 60 DAYS OLD, REMOVE ALL DEBRIS FROM THE SAW CUTS AND FILL WITH MORTAR CONTAINING CEMENT, SAND AND LATEX BONDING AGENT OR AS NOTED IN SPECIFICATIONS.
  7. PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT ROUT ALL CRACKS IN THE SLAB ON GRADE AND FILL WITH MORTAR CONTAINING CEMENT, SAND AND LATEX BONDING AGENT OR AS NOTED IN SPECIFICATIONS.
  8. REFER TO TYPICAL DETAIL CG01B, CG01C FOR SAW CUT DETAILS.

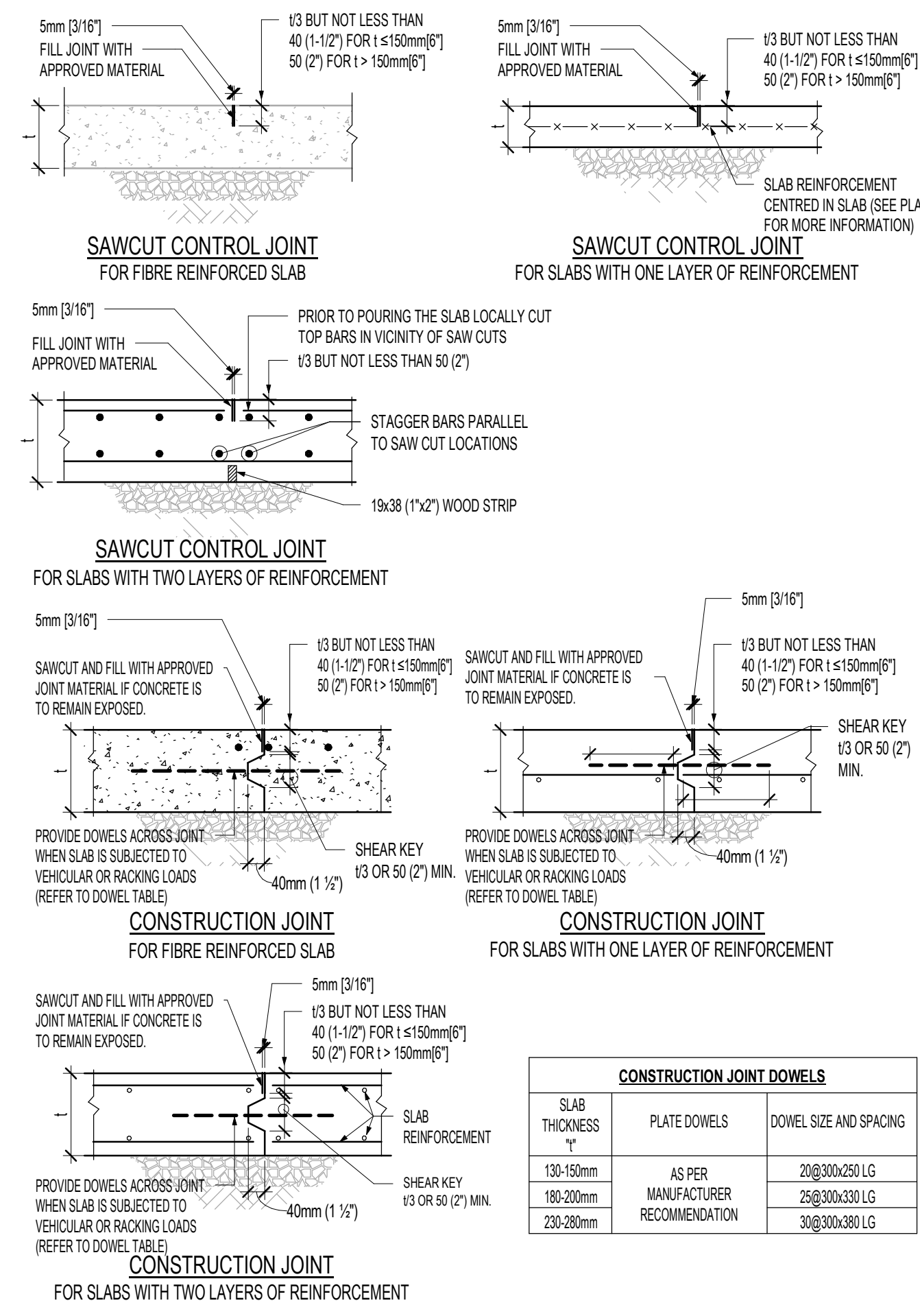
## SLAB ON GRADE DETAILS

CG01B



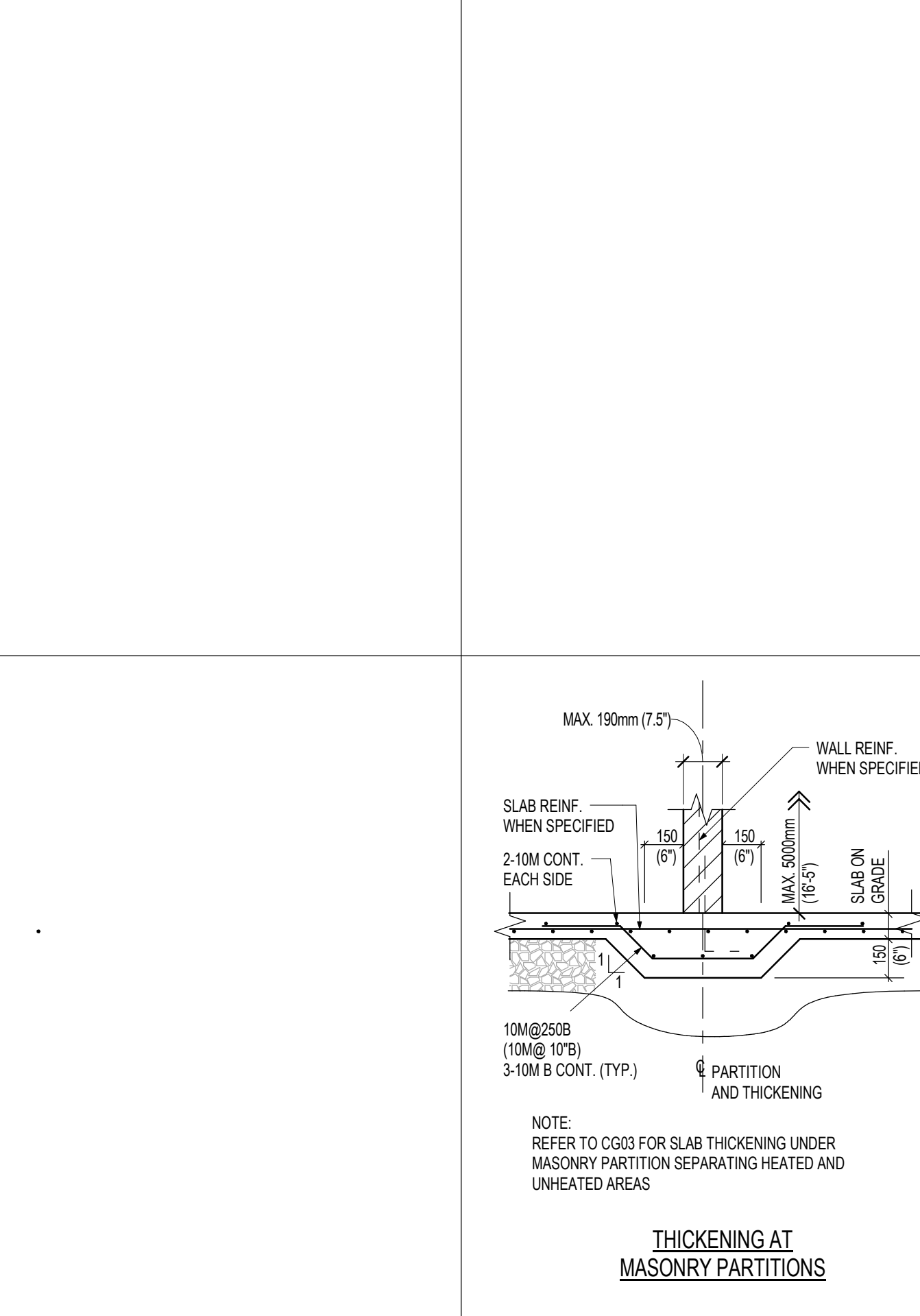
## SLAB ON GRADE DETAILS

CG01C



## THICKENING OF SLAB ON GRADE

CG02



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830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

DRAWING

## TYPICAL DETAILS

PROJECT NO.	20240909
PROJECT DATE	Issue Date
DRAWN BY	RP
CHECKED BY	CG/JG
SCALE	1 : 1
DRAWING NO.	

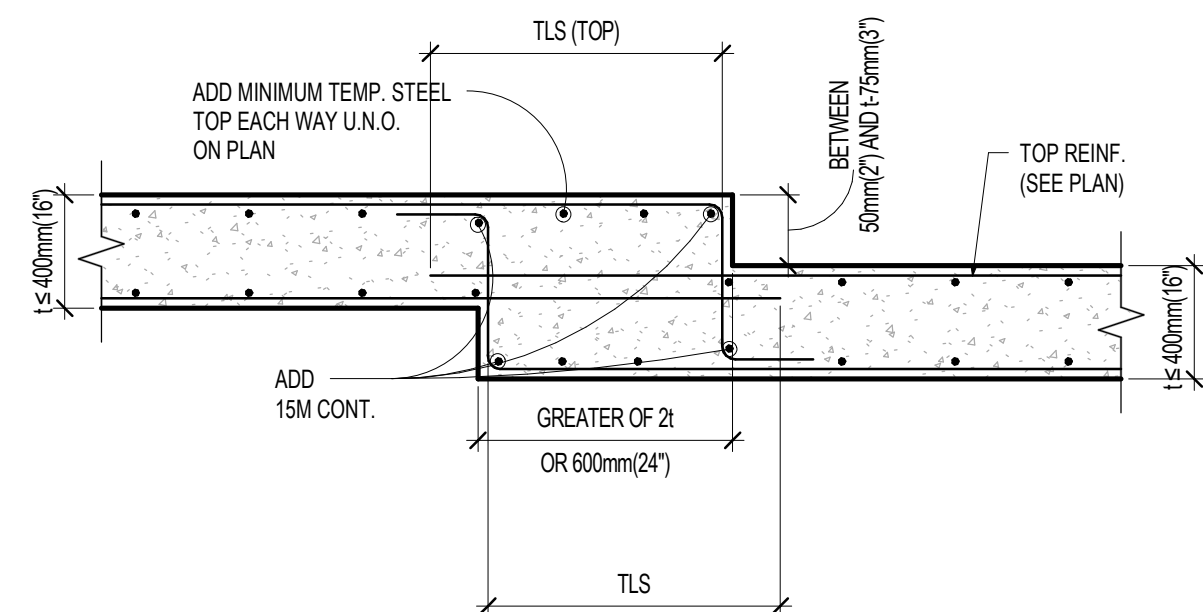
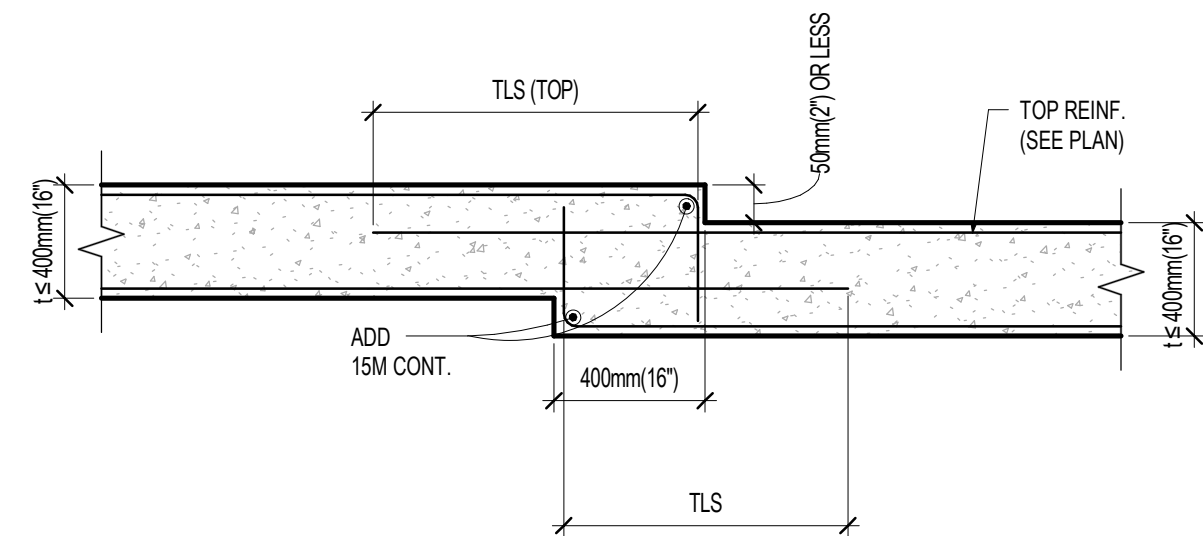
S3-03



## TYPICAL SLAB DEPRESSION REINFORCING DETAILS

CS09

(READ IN CONJUNCTION WITH DETAILS CS02A, CS02B, CS10)



NOTE:  
IF THERE IS NO TOP REINFORCEMENT NOTED ON PLANS,  
ADD 15M @300(12")T, 1200(48") LONG EACH SIDE.

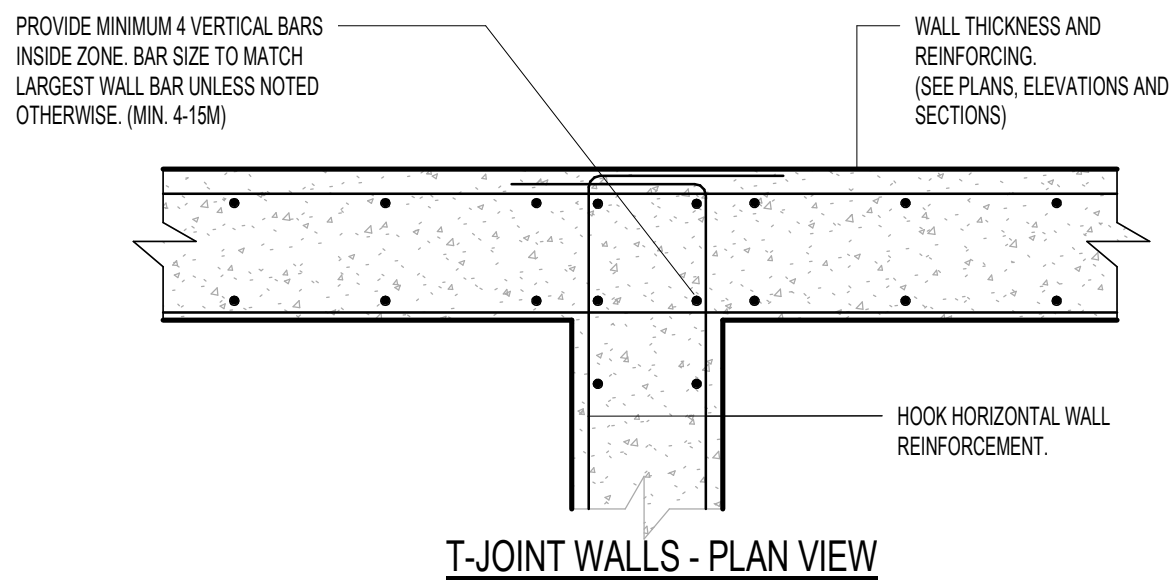
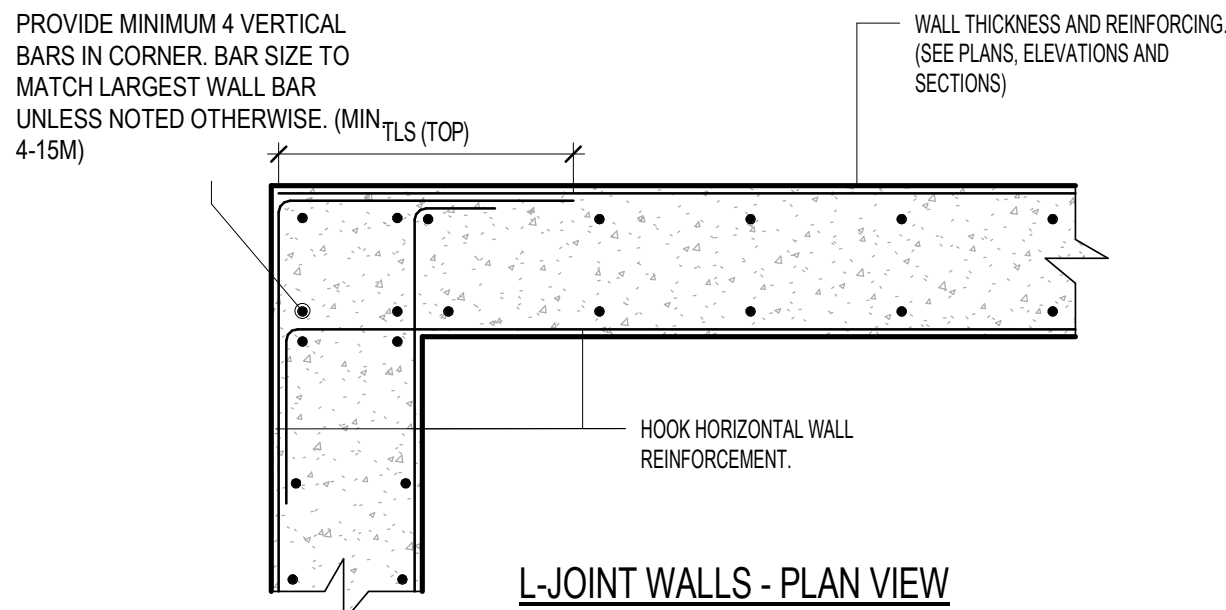
## SLAB DEPRESSION REINFORCING DETAILS (UP TO 1-75mm(3"))

NOTE: FOR SLAB DEPRESSIONS GREATER THAN 1-75mm(3") SEE CS10.  
SEE C02A AND C02B FOR TENSION LAP SPLICING (TLS) LENGTHS

## TYPICAL JOINTS IN CONCRETE WALLS

(NOT SPECIFIED AS SHEARWALLS)

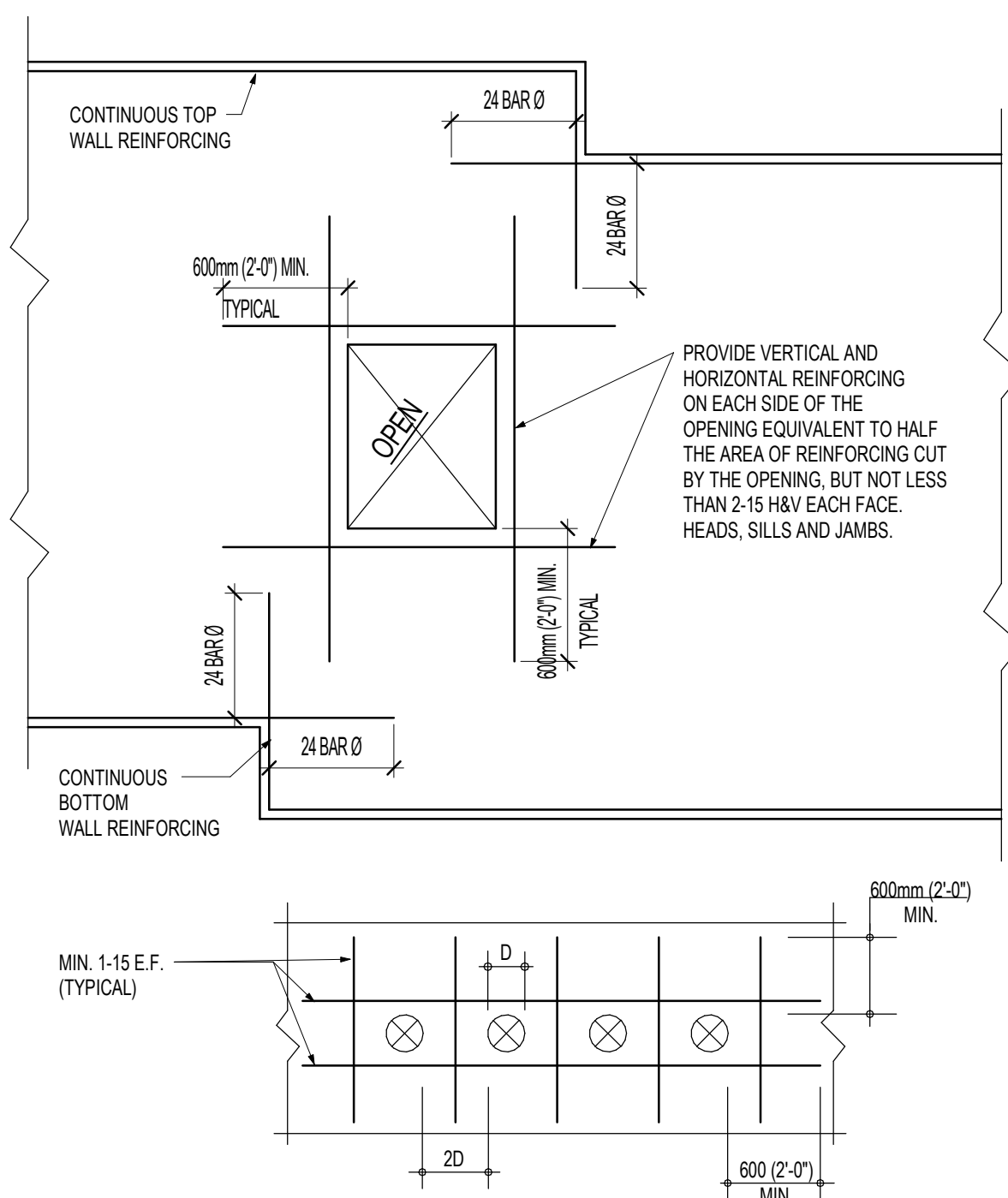
CW01



## TYPICAL DETAIL OF OPENINGS IN CONCRETE WALL

CW02

(NOT SPECIFIED AS SHEARWALLS)



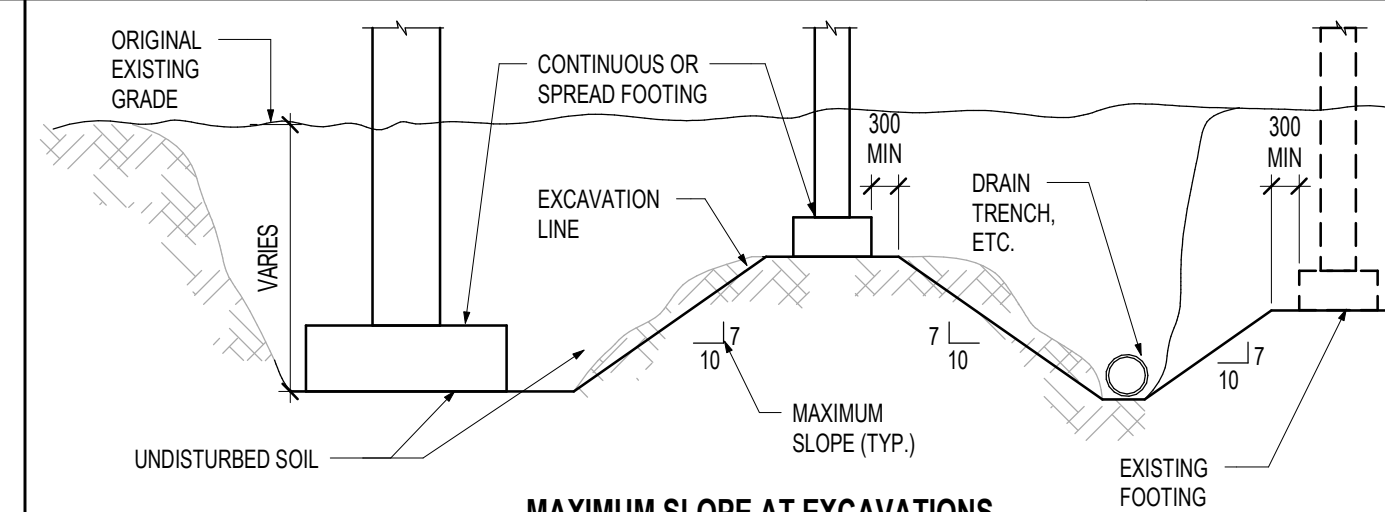
D = DIAMETER OF OPENING

## TYPICAL DETAIL OF ADDITIONAL REINFORCEMENT AT WALL OPENINGS

(TYPICAL UNLESS OTHERWISE SHOWN ON DRAWINGS)

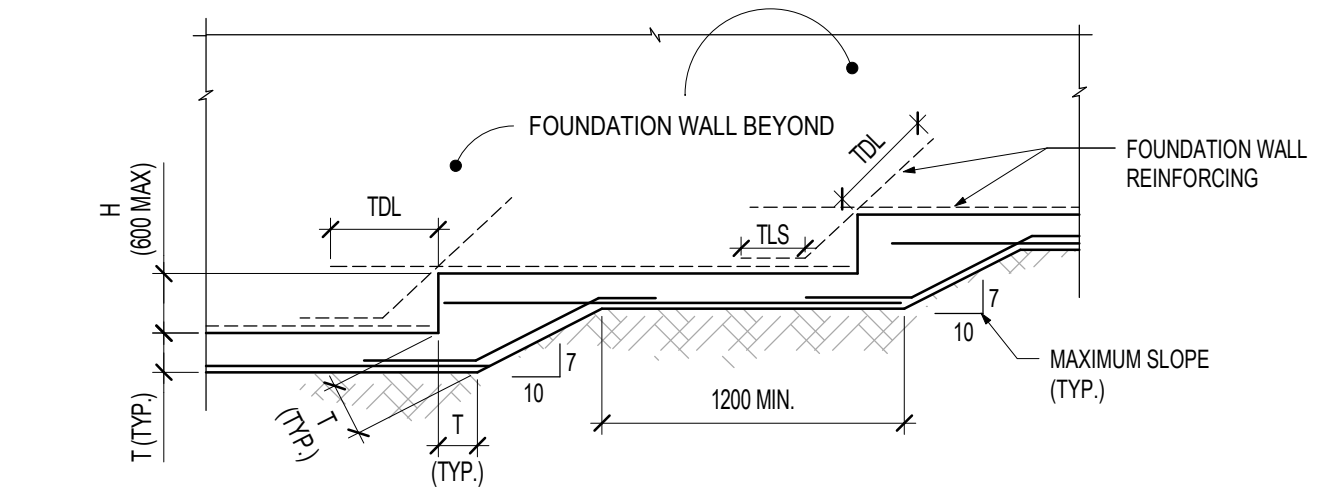
## STEPPED FOUNDATION AND CONSTRUCTION EXCAVATION

F09



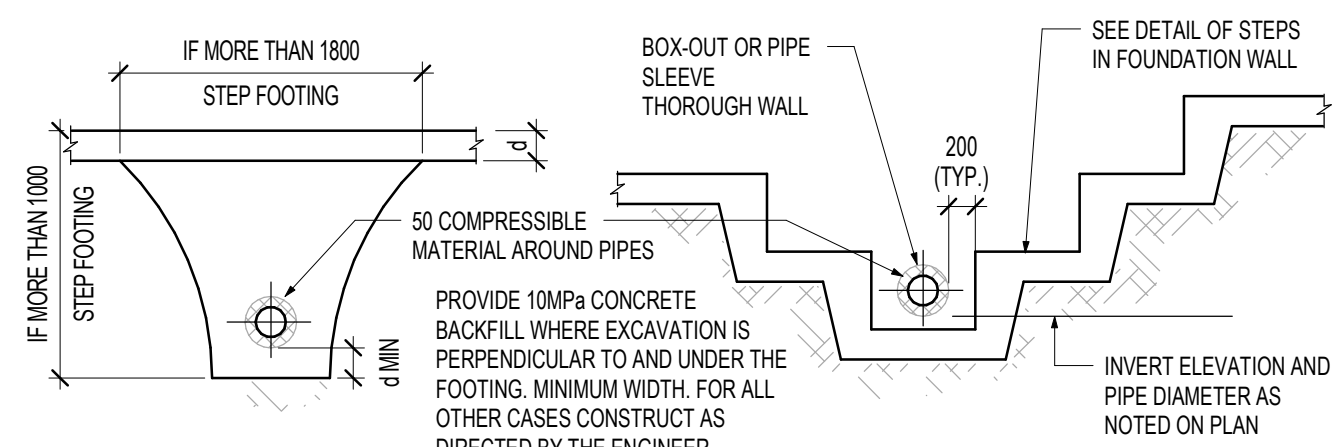
## MAXIMUM SLOPE AT EXCAVATIONS

- NOTES:
- WHERE TRENCHING OR EXCAVATING AT ADJACENT FOOTING SATISFY THE MAXIMUM SLOPE REQUIREMENT SHOWN ABOVE.
  - IF EXCAVATION REQUIREMENTS VIOLATE SLOPE REQUIREMENTS PROVIDE PLANS FOR REMEDIAL MEASURES (BRACING OR UNDERPINNING) TO THE CONSULTANT PRIOR TO PROCEEDING



## STEPS IN FOUNDATION WALL

- NOTES:
- STEPS IN FOUNDATION WALLS TO FOLLOW THE GEOMETRY SHOWN ABOVE UNLESS NOTED OTHERWISE ON PLANS



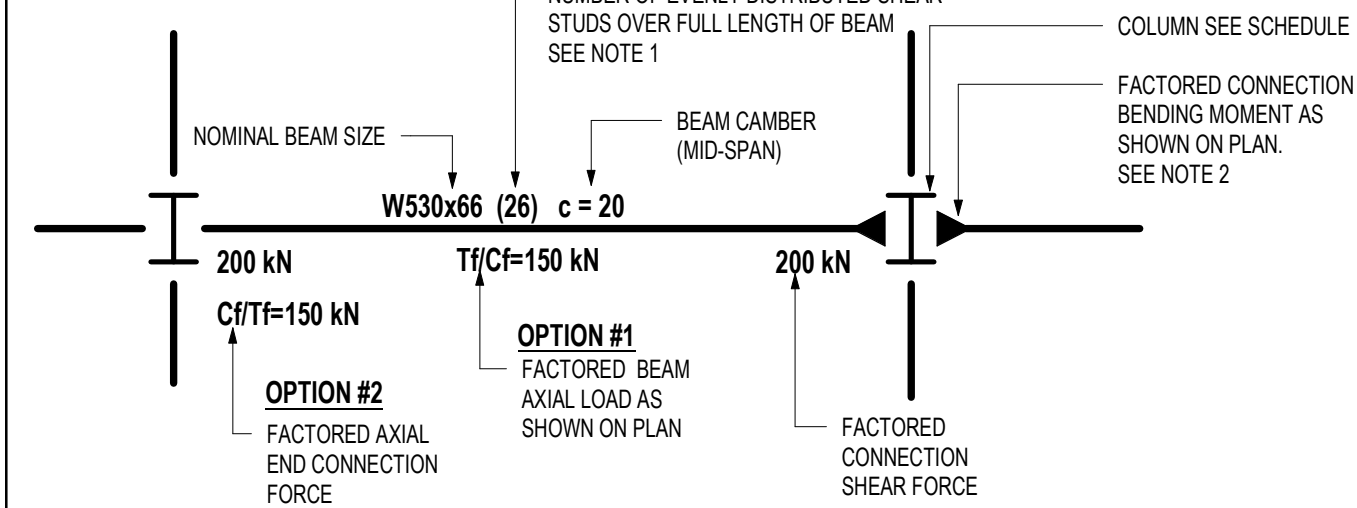
## PIPES UNDER CONTINUOUS WALL FOOTINGS

## PIPES REQUIRING STEPPED FOOTINGS

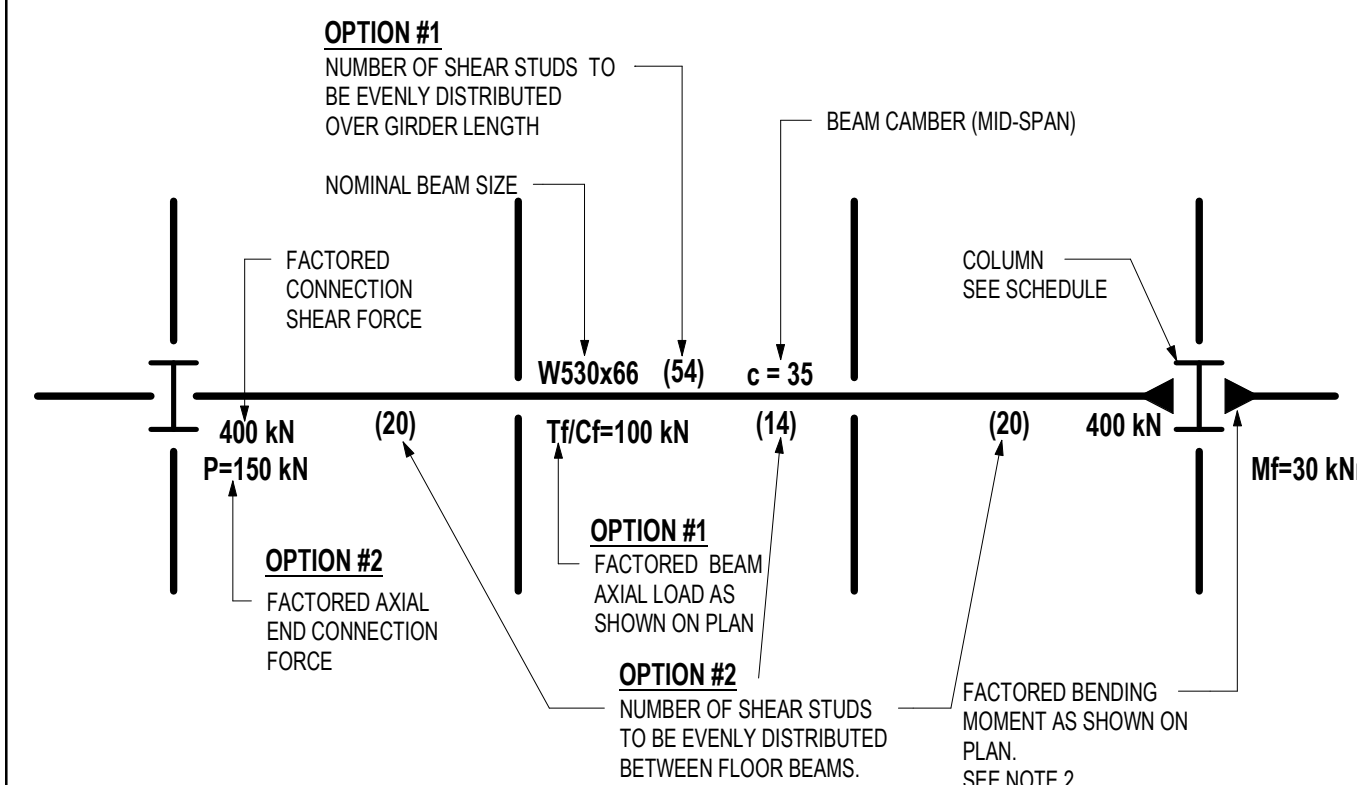
## STEEL BEAM AND GIRDER DESIGNATIONS

SB01

(READ IN CONJUNCTION WITH SB03, SF02 SERIES)



## STEEL FLOOR BEAM LEGEND



## STEEL GIRDER BEAM LEGEND

- NOTE:
- REFER TO DETAIL SF02 FOR PLACEMENT OF STUD SHEAR CONNECTORS ON BEAM/GIRDER TOP FLANGES.
  - REFER TO DETAIL SB01 FOR MOMENT CONNECTION REQUIREMENTS.
  - OPTION #2 FOR AXIAL LOAD USED WHERE REACTIONS AT EACH END OF BEAM ARE NOT EQUAL. OPTION #1 USED WHERE AXIAL LOADS ARE EQUAL AT EACH END.

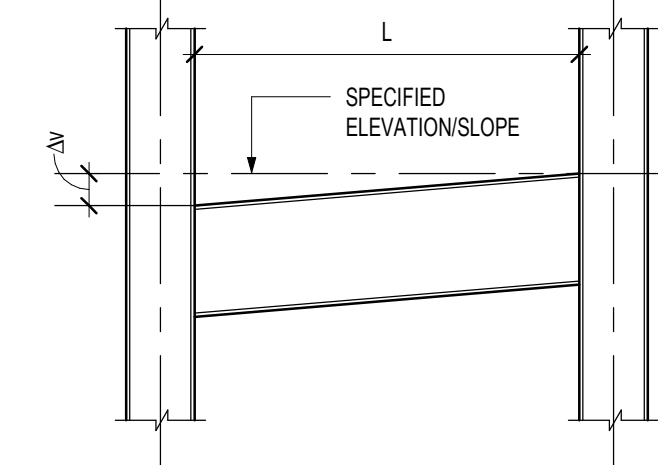
## ERECTION TOLERANCES FOR STEEL BEAMS

SB02A

(READ IN CONJUNCTION WITH SB02B)

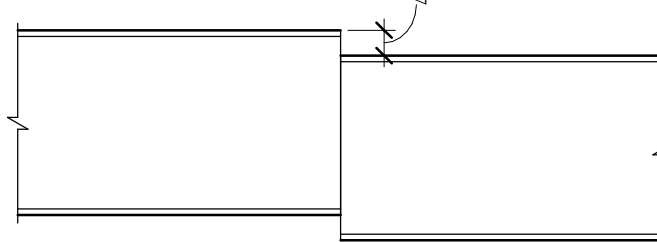
## 1. VERTICAL DEVIATION FROM SPECIFIED ELEVATION/SLOPE.

FLOOR BEAMS:	$\Delta v = \pm 10\text{mm}$ (3/8") OR $L/600$
MEMBERS WITH ADJUSTABLE CONNECTIONS:	$\Delta v = \pm 6\text{mm}$ (1/4") OR $L/1000$



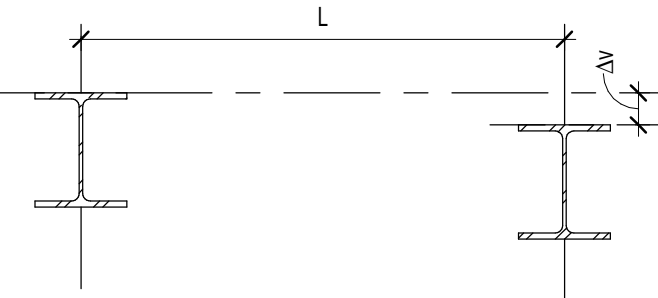
## 2. VERTICAL DEVIATION FROM SPECIFIED ELEVATION - ADJOINING MEMBERS

FLOOR BEAMS:	$\Delta v = \pm 6\text{mm}$ (1/4")
MEMBERS WITH ADJUSTABLE CONNECTIONS:	$\Delta v = \pm 2\text{mm}$ (3/32")



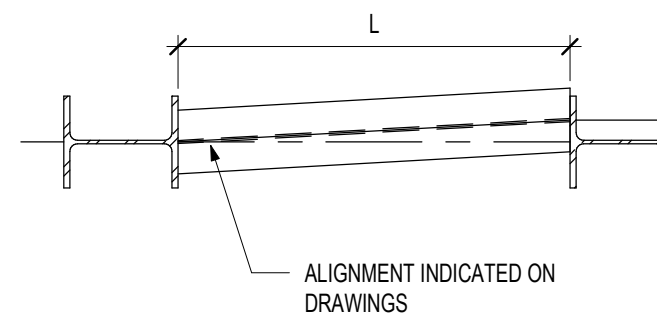
## 3. VERTICAL DEVIATION FROM ADJACENT BEAMS

FLOOR BEAMS:	$\Delta v = L/1000$
--------------	---------------------



## 4. HORIZONTAL DEVIATION FROM INDICATED POSITION

FLOOR BEAMS:	$\Delta H = \pm 12\text{mm}$ (1/2") OR $L/500$
SPANDREL BEAMS:	$\Delta H = \pm 6\text{mm}$ (1/4") OR $L/1000$



## NOTES

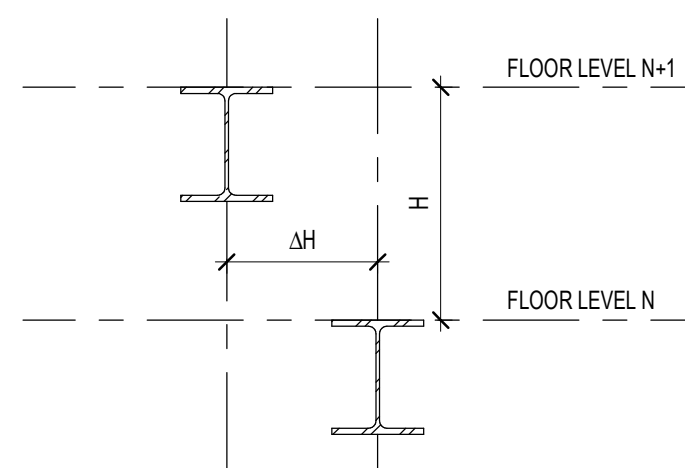
1. TOLERANCES PROVIDED IN THE DETAIL ABOVE SHALL NOT SUPERSEDE THE VALUES INDICATED IN CSA S16 AND REFERENCED DOCUMENTS.

## ERECTION TOLERANCES FOR STEEL BEAMS

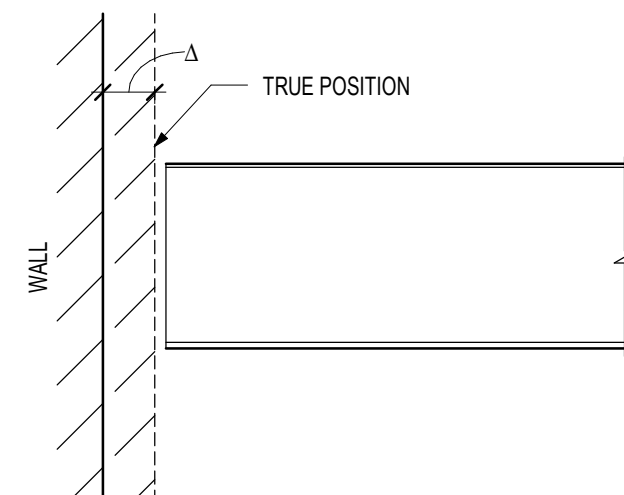
SB02B

(READ IN CONJUNCTION WITH SB02B)

5. HORIZONTAL DEVIATION FROM ADJACENT BEAMS	
FOR $H < 3000\text{mm}$ (10'-0"):	$\Delta H = \pm 5\text{mm}$ (3/16")
FOR $H > 3000\text{mm}$ (10'-0"):	$\Delta H = H/600$



## 6. HORIZONTAL DEVIATION FROM SUPPORT POINT AT VERTICAL WALL

 $\Delta = \pm 25\text{mm}$  (1")

## NOTES

- TOLERANCES PROVIDED IN THE DETAIL ABOVE SHALL NOT SUPERSEDE THE VALUES INDICATED IN CSA S16 AND REFERENCED DOCUMENTS.
- FOR ERECTION TOLERANCES OF SPECIAL MEMBERS SUCH AS CRANE GIRDERS, CRANE RAILS AND MONORAIL BEAMS, SEE THE APPROPRIATE CODE RECOMMENDATIONS.
- DEVIATIONS SHOWN FOR W-SHAPES ALSO APPLY TO BUILT-UP SECTIONS, HOLLOW STRUCTURAL SECTIONS, CHANNEL AND ANGLE SHAPES.
- ERECTION TOLERANCES ARE TO BE MEASURED IN CALM WEATHER. RECORD AMBIENT TEMPERATURE AT TIME TOLERANCES ARE VERIFIED.

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PROJECT



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DRAWING

## TYPICAL DETAILS

PROJECT NO.	20240909
PROJECT DATE	Issue Date
DRAWN BY	RP
CHECKED BY	CG/JG
SCALE	1 : 1
DRAWING NO.	

S3-04

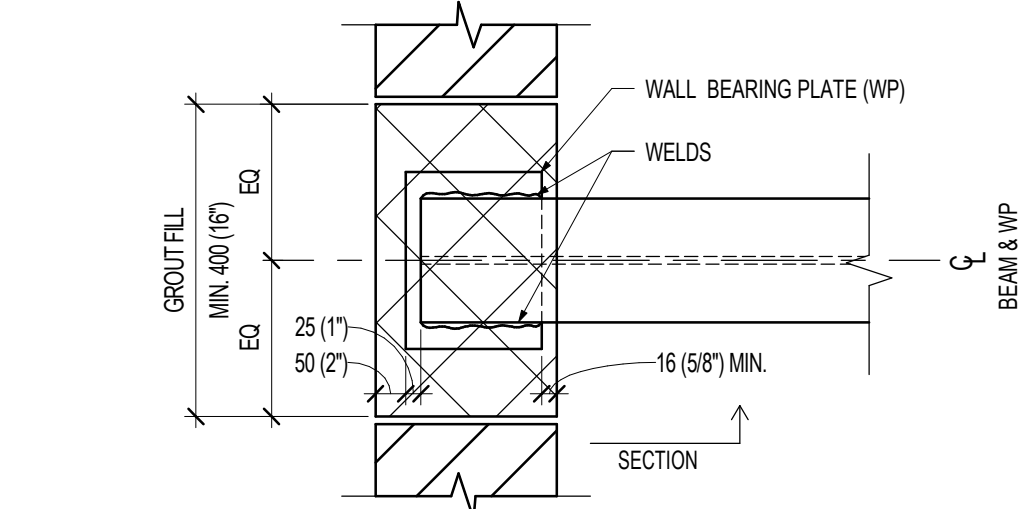


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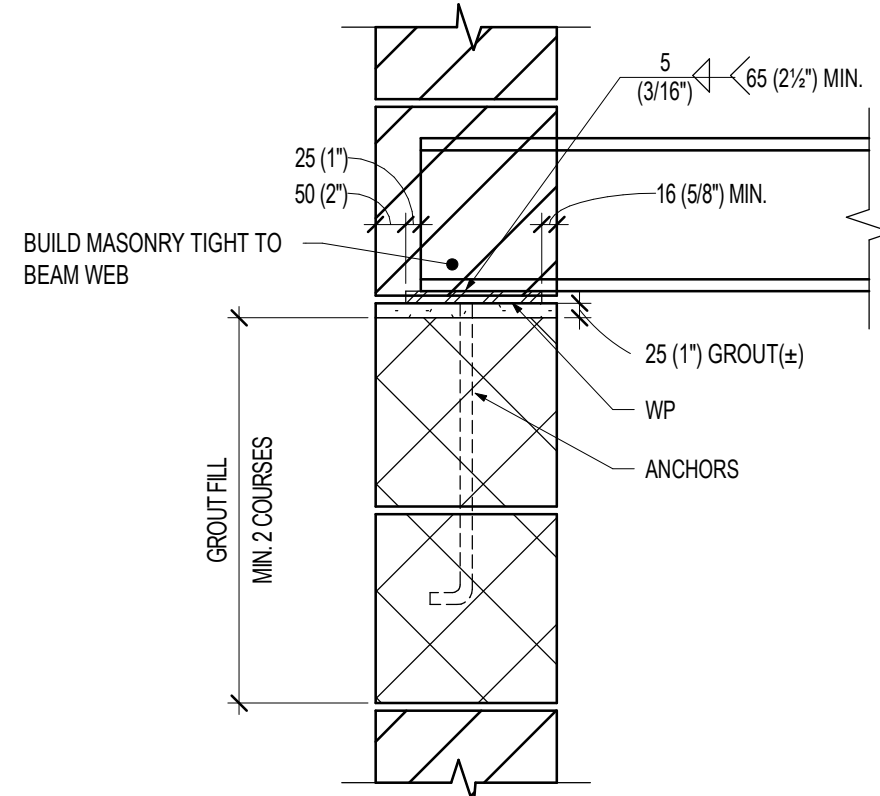


## TYPICAL STEEL BEAM BEARING ON MASONRY WALL (PERPENDICULAR)

M08



PLAN VIEW



TYPICAL SECTION

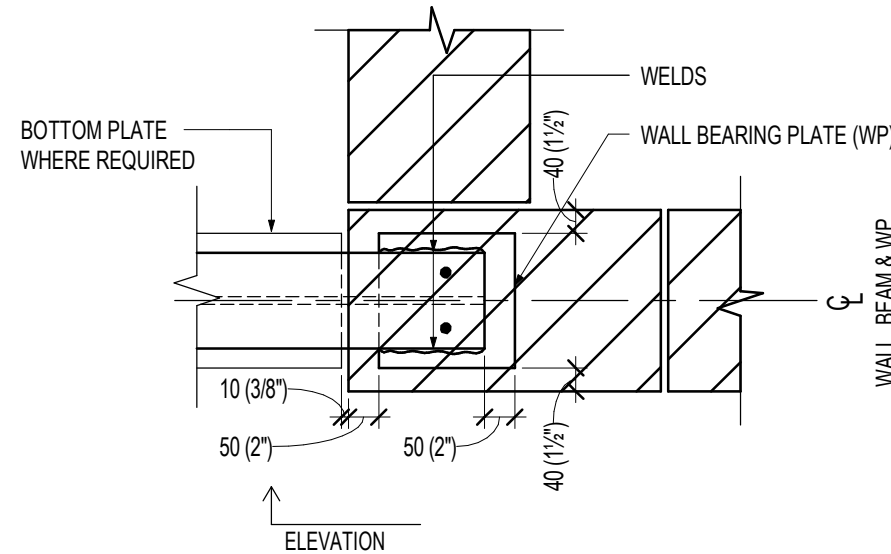
NOTE:

REFER TO TYPICAL DETAILS, TYPICAL NOTES, SPECIFICATION PLANS AND SCHEDULES FOR:

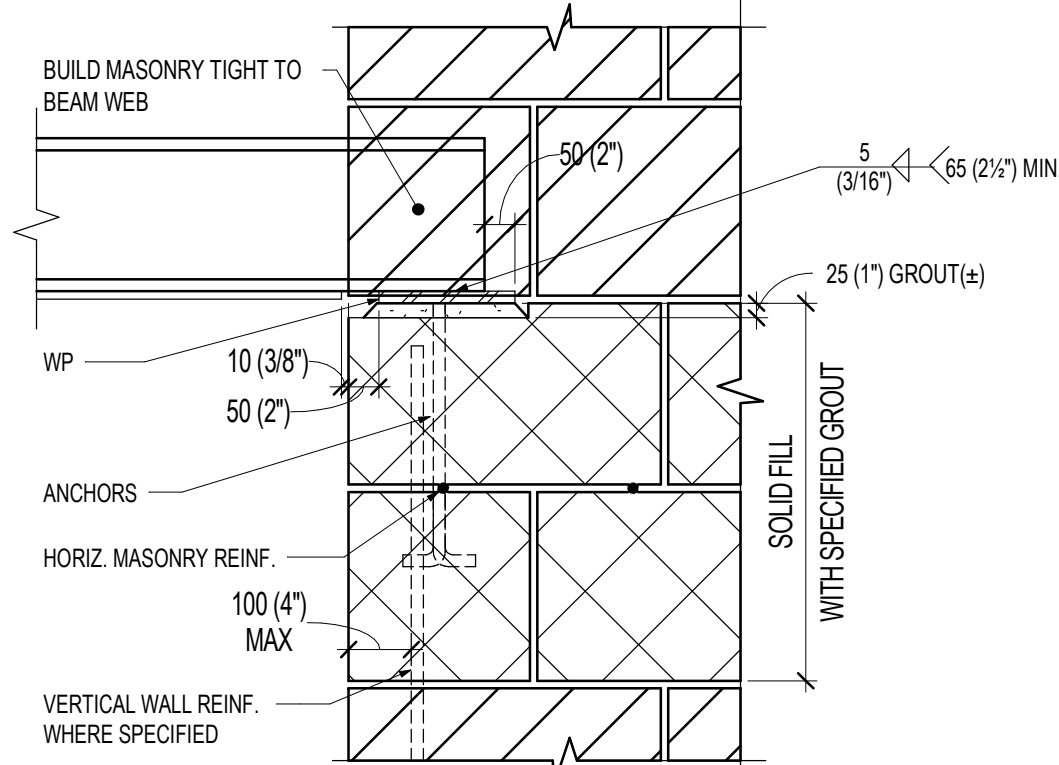
- WP SIZE AND SIZE/NUMBER OF ANCHORS
- VERTICAL WALL REINFORCING
- GROUT MIX AND EXTENT OF GROUT

## TYPICAL STEEL BEAM BEARING ON END OR CORNER OF MASONRY WALL (MINIMUM REQUIREMENTS)

M09



PLAN VIEW



ELEVATION

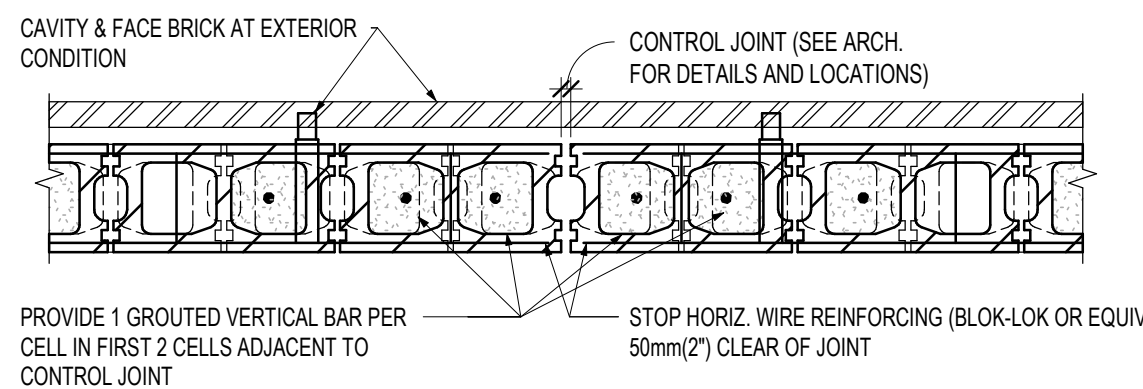
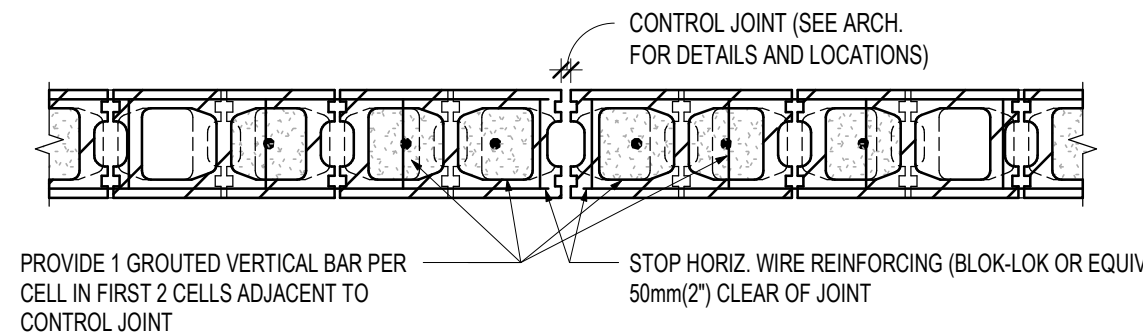
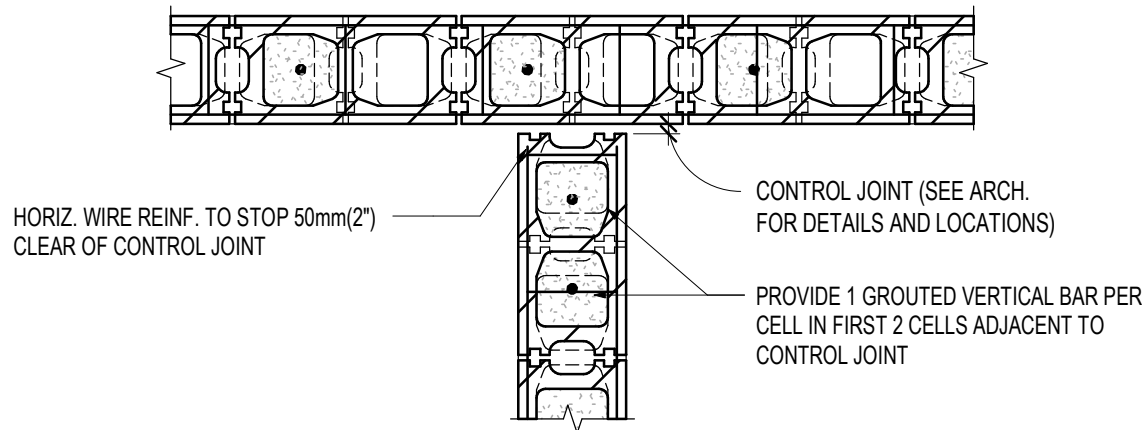
NOTE:

REFER TO TYPICAL DETAILS, TYPICAL NOTES, SPECIFICATION PLANS AND SCHEDULES FOR:

- WP SIZE AND SIZE/NUMBER OF ANCHORS
- VERTICAL WALL REINFORCING
- GROUT MIX AND EXTENT OF GROUT

## TYPICAL DETAIL AT CONTROL JOINT IN REINFORCED MASONRY WALL

M10

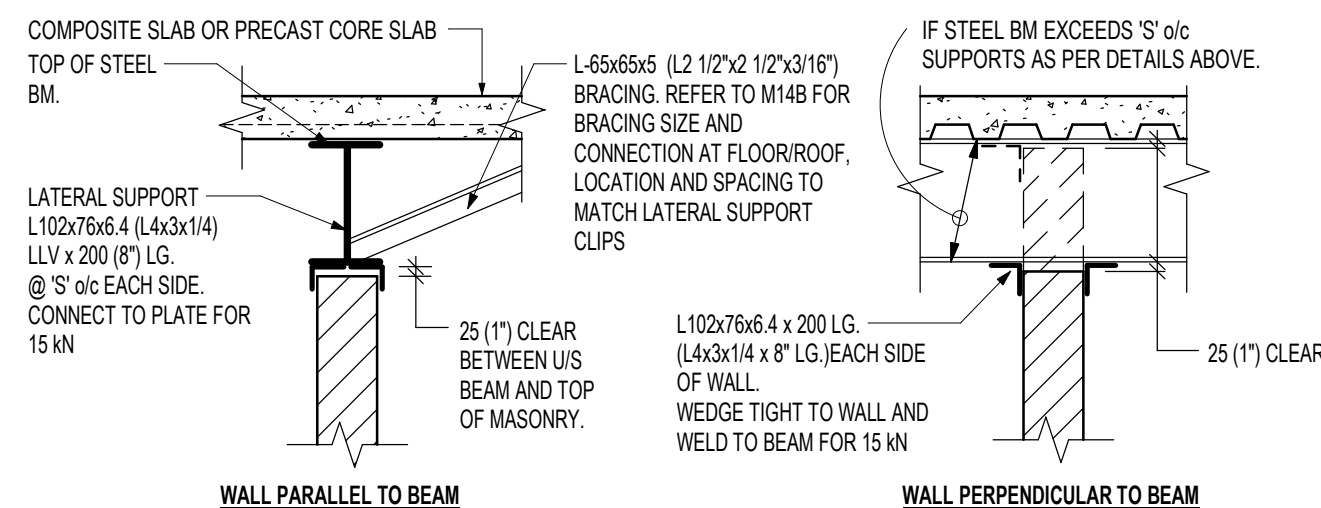
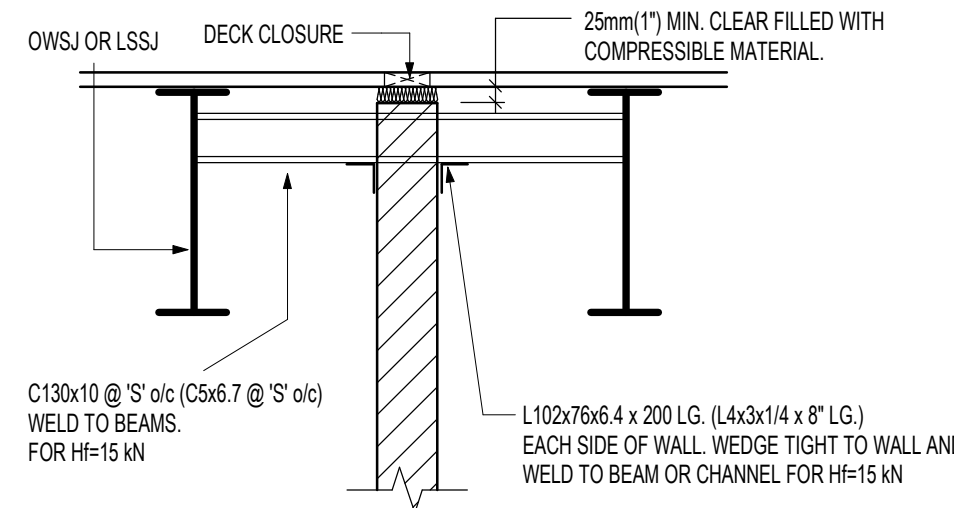


NOTE:

1. AT MASONRY LINTEL BOND BEAM STOP HORIZ. BARS 50mm (2\"/>
2. SEE PLANS AND TYPICAL NOTES FOR VERTICAL REINFORCING AND GROUT

## TYPICAL LATERAL SUPPORT AT PARTITIONS

M14A



NOTES:

1. PROVIDE 25mm MIN COMPRESSIBLE MATERIAL TOP OF PARTITION AND UNDERSIDE OF STRUCTURAL. TYPICAL UNLESS NOTED OTHERWISE.
2. UNREINFORCED NON-LOAD BEARING MASONRY WALL.
  - 2.1 PROVIDE LATERAL SUPPORTS FOR ALL MASONRY WALLS WHEN SPACING BETWEEN RETURN WALLS EXCEEDS 20x FOR INTERIOR WALLS IN ACCORDANCE WITH THE SPACING NOTED ON M07.
  - 2.2 MINIMUM LENGTH OF RETURN WALL IS 10x. IF RETURN WALL IS SHORTER THAN 10x, PROVIDE LATERAL SUPPORT PER DETAILS SHOWN ABOVE.
  - 2.3 MAXIMUM DISTANCE FROM END OF ANY WALL TO THE CENTERLINE OF THE FIRST LATERAL SUPPORT IS 600mm (2'-0").
3. REINFORCED NON-LOAD BEARING MASONRY WALL.
  - 3.1 PROVIDE LATERAL SUPPORT FOR ALL MASONRY WALLS.
  - 3.2 SPACING OF LATERAL SUPPORTS AS NOTED ON DETAIL M07.

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DRAWING

## TYPICAL DETAILS

PROJECT NO. 20240909

PROJECT DATE Issue Date

DRAWN BY RP

CHECKED BY CG/JG

SCALE 1 : 1

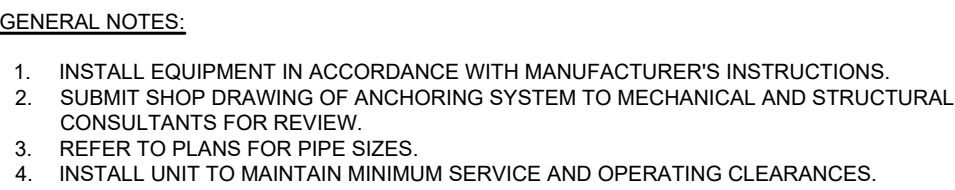
DRAWING NO.

S3-06



T.SMITH ENGINEERING DRAWING SPECIFICATIONS			
1.	General Requirements		
1.1.	Contract Requirements		
1.1.1.	Perform all mechanical work detailed on these contract documents.		
1.1.2.	Provide a complete and fully functional mechanical and fire protection systems to the satisfaction of the mechanical consultant.		
1.1.3.	Work described in these contract documents do not delegate works to any specific subcontractor or identify contractual limits between mechanical or sub- contractors.		
1.1.4.	Premium time costs shall be included for outside of normal working hours.		
1.1.5.	Any shutdown of mechanical systems affecting the current occupancy shall be conducted afterhours and on weekends, unless provided with written approval. Mechanical contractor shall allow for all overtime and premium time labour required to perform shut-downs in their cost.		
1.1.6.	The most rigorous of this specification and base building standards shall be the basis for this contract. Comply with CITY's requirements for system shutdown and connection. Valves identified on drawings are those that are available for Contractor use. Allow for pipe freezing and similar processes to minimize system shutdown and disruptions.		
1.1.7.	Perform all work in accordance with all applicable municipal, provincial, and national codes and bylaws having jurisdiction, and test industry practices.		
1.1.8.	Permits and fees required by the Authorities Having Jurisdiction shall be obtained and paid for by the Mechanical Contractor, including all applicable taxes. Submit all documents to the Authority in the format required including paper copies and/or electronic documents.		
1.1.9.	Existing site conditions affecting the work outlined on these contract documents shall be reviewed on site prior to tender submission. Failing to review site not relieve the contractor of full contract responsibility. No change will be issued or extra cost will be entertained for site conditions that were reasonably visible during the tender walkthrough.		
1.1.10.	Cutting, patching, and core drilling shall be paid under this contract by this contractor. X-ray concrete structure in accordance with Owner/CITY Structural Engineer's requirements. Provide details of new openings through structural components for Engineer's approval. Incur all related costs for structural approval.		
1.1.11.	Fire stop all pipe penetrations through rated assemblies. Repair/provide all fire stopping required to maintain original ratings. Fire stopping shall be ULC listed and installed per the manufacturer's requirements.		
1.1.12.	Flashing and counter-flashing for exterior penetrations or waterproofed floors shall be provided under this contract. Flash all mechanical parts passing through, or built into a roof, outside wall, or waterproofed floor. Use prefabricated aluminum or PVC flashing for roof and membrane or copper for walls and floors. Ensure all openings are weather, water, and fireproof using approved flexible sealants.		
1.1.13.	Submit shop drawings electronically and allow one (1) week engineer's review.		
1.1.14.	Provide shop drawings for all scheduled and specified equipment, including:		
1.1.14.1.	PLUMBING FIXTURES		
1.1.14.2.	GRILLES, REGISTERS, DIFFUSERS		
1.1.14.3.	LOUVERS		
1.1.14.4.	FANS		
1.1.14.5.	HOT WATER TANK		
1.1.14.6.	EXPANSION TANK		
1.1.15.	Shop drawings shall be reviewed by the Contractor for accuracy and complete with Contractor's review stamp prior to submission. Any submitted shop drawing that does not bear the Contractor's review stamp will not be reviewed and will be returned back to the Contractor.		
1.1.16.	Equipment substitutions after award of contract will not be considered without written explanation and consultant's written authorization. The quality and performance characteristics of a substituted product shall be equivalent to the specified product. All substitute products shall be approved by consultants. Any additional costs incurred by all trades for the substituted equipment installation must be paid for by the Mechanical Contractor under this contract, and at no additional cost to the consultants or the client.		
1.2.3.3.	This contractor shall provide detailed scaled drawings (1:50 or 1/4"=1'-0") for the alternative equipment/product and associated revisions needed to accommodate said equipment. Submit the same to for engineer's review.		
1.2.4.	Control wiring and devices shall be provided under this contract. Control work shall be completed by the Owner's/CITY approved contractor and paid for under this contract when connecting to base building controls systems.		
1.2.5.	Provide a complete and fully functioning system operating in accordance with the sequence of operations. Install all systems to allow for all future maintenance. Align all access doors, unit access locations, and piping/duct connections to ensure future serviceability of all systems.		
1.2.6.	Load-side wiring and electrical devices shall be provided including wiring, starters, disconnects, VFD's etc. Verify and coordinate voltage and phase with electrical contractor and consultant prior to ordering equipment.		
1.2.7.	Access doors shall be provided for all inaccessible mechanical equipment and services requiring inspection or maintenance. Finish shall suit Architect/Designers requirements. Access doors shall be recessed as required to suit wall/ceiling finish. Provide fire rated access doors in fire rated partitions.		
1.2.8.	Architect/Designer approval of air terminal, thermostat, and access door locations must be obtained prior to installation.		
1.2.9.	Written warranty shall be provided for the complete mechanical installation for one (1) year from the date of substantial completion.		
1.2.10.	As-built drawings shall be completed utilizing AutoCAD. Record accurately, installed work indicating exact locations, inverts and elevations, and sizes, dimensioned from column/grid lines, on white prints and transfer to AutoCAD. Submit both complete set of drawings. Keep one set on site for consultant review. As-built drawings are to solely note "Issued for As-Built" completion with contractor's title block. All consultant information is to be removed from as-built drawings.		
1.2.11.	Operation and maintenance manuals containing reviewed shop drawings, balancing reports, startup reports, and manufacturer's operation and maintenance manuals shall be submitted for consultant review. Manuals shall be submitted electronically for consultant review. Make all corrections requested by consultant and resubmit for review. Allow for printing of physical copy upon Owner's/CITY's request.		
1.2.12.	Change notice quotations shall be submitted complete with cost breakdown of labour and materials. Mechanical changes notices shall be priced in accordance with Mechanical Contractor Association (MCA) labour units. For material cost, use Allprice's less 20%.		
1.2.13.	Temporary filters 25mm (1") shall be provided at all base building return air openings. Filters to be replaced weekly and removed upon construction completion.		
1.2.14.	During construction, each contractor shall keep their work tidy. The premises shall be free of garbage and surplus materials. Clean daily.		
1.2.15.	Contractors are responsible for all damage to property or adjacent property as a result of work under these contract documents.		
1.2.16.	Contractors are responsible for maintaining safe practices and conditions in accordance with Occupational Health and Safety, security regulations, and fire safety regulations.		
1.2.17.	Plug all duct open ends, pipe open ends, and drains to prevent the entrance of foreign materials. Additional cleaning/flushing will be completed at no additional cost to the Owner.		
1.2.18.	Mechanical contractor shall take on the responsibility of coordinating installation of all mechanical systems with other trades. Produce a fully coordinated set of drawings showing all architectural, structural, electrical, fire protection, and mechanical services as a shop drawing for Consultant's review. Do not proceed to fabricate and install mechanical systems until shop drawings have been reviewed.		
1.2.18.1.	The mechanical contractor shall hold weekly coordination meetings with all trades to ensure coordination drawings are being followed and updated as required.		
1.3.	Supplementary Definitions		
1.3.1.	Supply - Furnish to site in location required or directed, complete with all accessories and ancillary equipment.		
1.3.2.	Install - Secured in place and all services connected up for operation as noted or directed.		
1.3.3.	Provide - To supply and install as described above.		
1.3.4.	Delete or Remove - Disconnect, make safe, and properly dispose off site all obsolete materials and ancillary devices noted on drawings and plans. Patch and repair all finished surfaces to match adjoining finishes in like kind and quality.		
1.3.5.	Exposed - Within the line of sight of any person standing or sitting in the occupied space.		
1.3.6.	Concealed - not exposed, hidden from normal sight in furred spaces, shafts, ceiling spaces, walls, floors, and partitions.		
1.3.7.	Listed - Materials or equipment that are tested in accordance with applicable standards and are approved and listed for their intended use by a testing company approved by the Authorities Having Jurisdiction.		
1.4.	Materials and Alternatives		
1.4.1.	Use only new materials, unless otherwise noted.		
1.4.2.	Materials and equipment shall meet or exceed base building standards and shall have Owner's/Tenant's approval prior to ordering.		
1.4.3.	Tender price to be per contract documents. Alternative equipment and associated cost savings to be indicated separately in tender submission.		
1.5.	Identification		
1.5.1.	Provide laminated name plates for all mechanical equipment. Text to be 10mm (3/8") high white lettering on black background. Identify equipment designation, voltage, phasing, unit #, and service.		
1.5.2.	Identify all valves with tags. Framed list of tagged valves to be provided to Owner/Tenant indicating valve location and use.		
1.5.3.	Provide labels for all mechanical systems associated with these contract documents. Identify fluid flow direction and system type. Labels to be visible behind each access door. Identify exposed mechanical services along line of site and as the service enters and exits a space. Allow for additional labeling at Consultant's request.		
1.5.4.	Identify capped fluid provisions.		
1.6.	Inspection		
1.6.1.	Arrange for required inspections with the Authorities Having Jurisdiction. All changes and alterations required as a result of these inspections are to be carried out promptly and without charge.		
1.6.2.	Mechanical consultant inspection(s) are required for the completion of this contract and the closing of permits obtained for this project.		
1.6.3.	Prior to complete installation of wall and ceiling finishes, or concealment of any buried services, contact T. Smith Engineering (inspections@tsmithengineering.com) to confirm and coordinate inspections. When ceilings or walls have been installed, if may be necessary for the contractor to remove portions to allow for inspection.		
1.7.	Structural Consultant Review		
1.7.1.	Mechanical equipment weights and opening requirements to be reviewed by a structural engineer.		
1.7.2.	Penetrations through structural slabs and members to be reviewed by Structural Engineer and base building consultant(s) prior to proceeding with work.		
1.7.3.	Structural Engineer review to be included as part of this contract.		
1.8.	Inserts and Sleeves		
1.8.1.	Provide sleeves for piping passing through walls, floors, and ceilings as detailed and as required per firestop listing requirements.		
1.8.2.	Sleeves are to be schedule 40 black steel and packed tight for water/air seal, sound transmission, fire proofing, and smoke proofing per applicable details and listings.		
1.8.3.	Provide Link-Seals in all pipe sleeves exposed to unexcavated areas to ensure a complete watertight seal.		
1.9.	Hangers and Supports		
1.9.1.	Provide hangers and supports per industry best practices and standards.		
1.9.2.	Support from building structure. Supporting from equipment, piping, and ductwork will not be accepted.		
1.9.3.	Provide oversized hangers to maintain vapour barriers as outlined in insulation specification. Coordinate with insulation contractor to ensure hangers and supports do not penetrate vapour barriers.		
2.	Plumbing and Drainage		
2.1.	General		
2.1.1.	Provide all domestic water systems and connections to plumbing fixtures and equipment requiring water connections.		
2.1.2.	Provide all drainage and vent systems inside the building and up to 1.5m (5ft) past the foundation walls. Venting to conform with applicable codes and the Authorities Having Jurisdiction.		
2.1.3.	Provide all trenching and backfilling required to achieve the indicated plumbing work.		
2.1.4.	Existing sanitary and storm drain locations and invert elevations shall be verified on site prior to commencement of work.		
2.1.5.	Flush and scope existing sanitary and storm drains and perform a full inspection of the existing sanitary system prior to commencement of work.		
2.1.6.	Provide electronic trap priming devices and prime all traps per code requirements.		
2.1.6.1.	Electronic trap priming devices shall be an engineered, pre-fabricated, and factory tested assembly, equal to ppp Inc.		
2.1.7.	Provide all plumbing fixtures including all required trim and supports.		
2.1.8.	Provide shutoff valves, in accessible locations, on domestic water supplies to plumbing fixtures and equipment.		
2.1.9.	Verify all existing drainage locations and inverts on site prior to commencing work. Ensure drainage runs can meet site service inverts. Notify consultants when apparent difficulties and discrepancies are encountered. No additional costs will be paid after for rerouting drains because site inverts cannot be met.		
2.1.10.	Perform all tests required by the Authorities Having Jurisdiction and obtain certification upon completion. Repeat tests as required to obtain certification.		
2.1.11.	Ball test all drains.		
2.1.12.	Water test all drainage and vent systems to ensure there is no leakage.		
2.1.13.	Pressure test all piping systems per applicable codes and the requirements of the Authority Having Jurisdiction.		
2.1.14.	Submit report(s) to Owner/CITY and consultants. Include reports in final closeout package.		
2.1.15.	Test plumbing systems before covering.		
2.1.16.	Separate dissimilar metals per best industry practices.		
2.1.17.	Slope all domestic water piping to low points to ensure ease of drainage for maintenance. Provide drain valves at low points.		
2.1.17.1.	Provide water hammer arrestors on all piping serving fixtures or equipment with quick closing valves. Arrestors to be manufactured by Zurn or Watts with NSF compliant construction. Size and install arrestors per manufacturer's guidelines. Coordinate locations and access with general trade and architectural consultant.		
2.1.18.	Exposed piping and fittings in washrooms to be chrome plated. Provide chrome plated escutcheons on all piping passing through finished surfaces or milwork.		
2.2.	Cleaning, Flushing, and Disinfecting Plumbing Piping		
2.2.1.	Flush all drains until deposits of earth and foreign materials have been removed.		
2.2.2.	Flush all systems with clean potable water to remove scale and sediment upon filling.		
2.2.3.	Ensure operation of isolation and check valves such that disinfecting solution does not flow into adjacent systems.		
2.2.4.	Sterilize all domestic water piping per local municipal requirements.		
2.2.5.	Disinfect mains in accordance with AWWA Standard C681-86 upon completion of test and flushing. Repeat process until test results are satisfactory. Include final test report in closeout package.		
2.2.6.	Water quality tests by a recognized independent testing agency to be arranged and passed for under this project. Obtain certificates confirming safety of potable water supply and include reports in closeout package.		
2.3.	Materials		
2.3.1.	Below ground sanitary		
2.3.1.1.	Less than 75mm (3") to be CAN/CSA approved ABS or PVC sewer pipe with solvent welded joints.		
2.3.1.2.	75mm (3") and larger to be CSA Class 4000 cast iron piping and fittings, CSA approved SDR35 PVC with gasketed joints.		
2.3.2.	Above ground sanitary		
2.3.2.1.	Less than 75mm (3") to be DWV copper with drainage fittings and 95/5 solder joints, or IPEX System XFR.		
2.3.2.2.	75mm (3") and larger to be CSA Class 4000 cast iron piping and fittings.		
2.3.3.	Below ground storm		
2.3.3.1.	75mm (3") and larger to be CSA Class 4000 cast iron piping and fittings or CSA approved SDR35 PVC with gasketed joints.		
2.3.4.	Above ground storm		
2.3.4.1.	Less than 75mm (3") to be DWV copper with drainage fittings and 95/5 solder joints, or IPEX System XFR.		
2.3.4.2.	75mm (3") and larger to be CSA Class 4000 cast iron piping and fittings.		
2.3.5.	Below ground vent		
2.3.5.1.	Less than 75mm (3") to be Type 'L' copper with wrought copper fittings and 95/5 solder joints.		
2.3.5.2.	75mm (3") and larger to be CSA Class 4000 cast iron piping and fittings.		
2.3.6.	Above ground vent		
2.3.6.1.	Type 'K' or 'L' copper pipe with wrought copper fittings and 95/5 solder joints.		
2.3.6.2.	Grooved copper piping systems with working pressures up to 2100kPa (300psig) may be used in accessible areas. Use Victaulic couplings with Grade E gaskets.		
2.4.	Valves		
2.4.1.	Valves are to be manufactured by Kitz, Jenkins, Apollo		
2.4.2.	Valves 50mm (2") and smaller to have soldered connections.		
2.4.3.	Valves 65mm (2-1/2") and large to have flanged connections.		
3.	HVAC Equipment		
3.1.	Provide HVAC equipment and accessories as per equipment schedule.		
3.2.	Submit shop drawing for review prior to purchasing. Shop drawing shall include manufacturer's printed product literature and data sheets, performance data, and all listed options.		
3.3.	Deliver, store, and handle in accordance with manufacturer's requirements. Protect all products from damages, and replace all damaged products with new.		
3.4.	Install all equipment in accordance with manufacturer's written recommendations, instructions, all applicable codes, and best industry practices.		
3.5.	Provide equipment startup and commissioning by a factory trained technician. Submit startup and commissioning report for review.		
4.	Ductwork		
4.1.	Ductwork to be fabricated from G-60 galvanized steel metal.		
4.2.	Ductwork shall be smooth on the inside, free of obstructions, vibrations, and rattles.		
4.3.	Construct and seal ductwork per SMACNA standards. (Tables 1-1 and 1-3)		
4.4.	Ductwork shall be sealed per SMACNA standard and in accordance with the system pressure.		
4.4.1.	Seal Class A - (4" WC) and also at All transverse joints and longitudinal seams and duct wall penetrations shall be sealed. Pressure sensitive tape shall not be used as primary sealant. Max. 2 to 5 percent total system leakage.		
4.4.2.	Seal Class B - (2" to 4" WC) All transverse joints and longitudinal seams shall be sealed. Pressure sensitive tape shall not be used as primary sealant. Max. 3 to 10 percent total system leakage.		
4.4.3.	Seal Class C - (up to 2" WC) All transverse joints shall be sealed. Max. 5 to 20 percent total system leakage.		
4.4.4.	Acceptable Sealant: oil resistant, polymer type flame resistant duct sealant. Acceptable material Duro Dyne S-2 or equivalent.		
4.6.	Hangers and reinforcement shall be fabricated and installed per SMACNA standards.		
4.7.	Round ductwork shall be spiral pipe formed by rolling sheet metal into a rigid steel tube with a 4-ply spiral lockseam.		
4.8.	Flexible ductwork shall be spiral wound aluminum. Secure to rigid duct with gear clamps. Flexible duct shall be installed as one continuous piece and not exceed 3000mm (10') in length. Bends shall not be less than 1 duct diameter center line radius.		
4.9.	Flexible duct connections shall be provided between air handling equipment and ductwork. Connections shall be Durodyne Metal Fab Neoprene (MFN) and installed with a continuous 50mm (2") gap between seams. Pinched or stretched connections will not be accepted.		
4.10.	Transfer air openings without ductwork are to be coordinated with general trades.		
4.11.	Balancing dampers shall be provided in new and existing ductwork to facilitate a complete and balanced system.		
4.12.	Coordinate damper locations and requirements with Balancing Contractor.		
4.13.	Access doors shall be double wall with 1" thick insulation, 24 gauge, mounting frame with notched knock over tabs, 1/4" thick by 1/2" wide close cell neoprene gasketing between door and frame, and 1/8" thick by 1/2" wide close cell neoprene gasketing between frame and door. Cam latch shall be self tightening and hand operated.		
5.	Hangers and Supports		
5.1.	Inserts		
5.1.1.	Inserts shall be malleable iron case or [galvanized] steel shell and expander plug for threaded connection with lateral adjustment, top slot for reinforcing rods, lugs for attaching to forms.		
5.1.2.	Size inserts to suit threaded hanger rods.		
5.2.	Pipe Hanger and Supports		
5.2.1.	Hangers: Pipe sizes 15 mm to 40 mm: Adjustable wrought steel ring.		
5.2.2.	Hangers: Pipe sizes 50 mm to 100 mm and Cold Pipe Sizes 150 mm Over: Adjustable wrought steel clevis.		
5.2.3.	Hangers: Hot Pipe Sizes 150 mm and Over: Adjustable steel yoke and cast iron roll.		
5.2.4.	Multiple or Trapez Hangers: Steel channels with welded spacers and hanger rods, cast iron roll and stand for hot pipe sizes 150 mm and over.		
5.2.5.	Wall Support: Pipe Sizes to 80 mm: Cast iron hook.		
5.2.6.	Wall Support: Pipe Sizes 100 mm and Over: Welded steel bracket and wrought steel clamp, adjustable steel yoke and cast iron roll for hot pipe sizes 150 mm and over.		
5.2.7.	Vertical Support: Steel riser clamp.		
5.2.8.	Floor Support: Pipe Sizes to 100 mm and All Cold Pipe Sizes: Cast iron adjustable pipe saddle, locknut nipple, floor flange and concrete pier to steel support.		
5.2.9.	Floor Support: Hot Pipe Sizes 150 mm and over: Adjustable cast iron roll and stand, steel screws and concrete pier or steel support.		
5.2.10.	Design hangers so they cannot become disengaged by movements of supported pipe.		
5.2.11.	Provide copper plated hangers and supports for copper piping or provide steel lead packing between hanger or support and piping.		
5.2.12.	Insulate aluminum piping from dissimilar metal supports.		
5.2.13.	Oversize hangers to allow continuous pipe insulation accordingly, including insulation shield.		
5.3.	Hanger Rods		
5.4.	Provide steel hanger rods, threaded both ends, threaded one end, or continuous threaded.		
5.5.	Duct Hangers and Supports		
5.5.1.	Hangers: To SMACNA standards and configuration.		
5.5.1.1.	Galvanized steel band iron or rolled angle and 10 mm rods.		
5.5.2.	Wall Supports: Galvanized steel band iron or fabricated angle bracket.		
5.5.3.	Vertical Support at Floor: Rolled angle.		
6.	Insulation		
6.1.	Provide all thermal insulation as indicated in drawings and as specified in the following.		
6.2.	Protect insulation work from being defaced or damaged by other trades. Make good any damages and leave in condition ready for paint.		
6.3.	Insulation to be protected in storage and during installation such that water is not absorbed by the insulation. Insulation found to have absorbed water is to be replaced immediately at no additional cost to the Owner/CITY.		
6.4.	Surfaces to be dry, clean, and free of rust prior to insulation installation.		
6.5.	All insulation sections to be firmly butted together.		
6.6.	Maintain ambient temperatures within manufacturer's specifications to ensure adhesives work as intended.		
6.7.	Insulation to be manufactured in a registered ISO 9000 facility.		
6.8.	All insulation pertaining to the work identified in these contract documents is to be carried by a single firm. Similar products from multiple manufacturers are not to be mixed.		
6.9.	Insulation to be manufactured by Owens Corning, Johns Manville, Celins Manville, and Knafuf Insulation.		
6.10.	Provide non-combustible insulation materials meeting or exceeding a flame spread/smoke development rating of 25/50 meeting CAN/ULC S-102 requirements.		
6.11.	Provide a complete and continuous vapour barrier as specified below and on all exterior mechanical services.		
6.12.	Provide high density insulation insert and support shield for all piping larger than 32mm (1-1/4") specified with vapour barrier such that insulation is not crushed and vapour barrier is not penetrated.		
6.13.	Provide flexible unicellular tubular elastomer insulation with vapour retarder jacket to CGSB S1-GP-52Ma for refrigerant piping. Certified by the manufacturer to be free of potential stress corrosion cracking conditions.		
6.14.	Provide high density insulation insert and sheet metal support shield for all exterior ductwork.		
6.15.	Provide PVC sanitary protective covering kit on on-p-traps and water supplies on all barrier free lavatories.		
6.16.	Insulation over 65mm (1-1/2") thickness in two layers with staggered joints.		
6.17.	Insulation to have a minimum thermal conductivity of 0.24BTU (in/hr. sq.ft) at 100F mean temperature.		
6.18.	Insulate fittings with fabricated mitered or pre-formed sections.		
6.19.	Insulate flanges and mechanical couplings with specified insulation thickness. Infill transition with insulation of similar material and performance. Transitions to be made such that the specified insulation thickness is maintained throughout.		
6.20.	Insulate valves and inline components with flexible insulation. Insulation density to be 34 lbs/cu.ft. Insulation must not be compressed more than 50% of the original thickness.		
6.21.	Terminal unit automatic control valves are not to be insulated when installed in hot piping systems. Terminal unit automatic control valves installed in cold piping systems are not to be insulated when located over condensate drip pans.		
6.22.	Piping Insulation		
6.22.1.	Owens Corning 850 Pipe Insulation, Johns Manville Micro-Lok AP-T Plus Pipe Insulation, Manson Pipe Insulation, and Knafuf Pipe Insulation.		
6.22.2.	Domestic Cold Water		
6.22.2.1.	15mm (1/2") thick		
6.22.2.2.	Vapour barrier		
6.22.3.	Domestic Hot Water		
6.22.3.1.	50mm (2") and less		
6.22.3.1.1.	25mm (1") thick		
6.22.3.2.	65mm (2-1/2") and larger		
6.22.3.2.1.	40mm (1-1/2") thick		
6.22.4.	Horizontal Storm and Sanitary Drainage		
6.22.4.1.	25mm (1") thick		
6.22.4.2.	Vapour barrier		
6.22.4.3.	Insulate vertical sections of piping when horizontal section is within 600mm (2') of slab or roof.		
6.22.5.	Horizontal Condensate Drains		
6.22.5.1.	522.5.2 15mm (1") thick		
6.22.5.2.	Vapour barrier		
6.22.6.	Piping Heat Traced for Freeze Protection		
6.22.6.1.	75mm (3") and less		
6.22.6.1.1.	25mm (1") thick		
6.22.6.2.	100mm (4") and larger		
6.22.6.2.1.	65mm (1-1/2") thick		
6.22.7.	Refrigerant Piping		
6.22.7.1.	50mm (2") and less		
6.22.7.1.1.	25mm (1") thick		
6.22.7.1.2.	Vapour Barrier		
6.22.7.2.	65mm (2-1/2") and larger		
6.22.7.2.1.	38mm (1-1/2") thick		
6.22.7.2.2.	Vapour Barrier		
6.23.	Sheet Metal Insulation		
6.23.1.	Rigid insulation to be Owens Corning Rigid Vapour Seal Duct Insulation, Johns Manville Microclites Type 75 Duct Wrap, Facing, Manson Spin-Glas Rigid Insulating Board with reinforced foil facing, or Knafuf Rigid Insulation Board with FSK Facing.		
6.23.2.	FSK Facing.		
6.23.3.	Flexible insulation to be Owens Corning Flexible Duct Insulation, Johns Manville Microclites Type 75 Duct Wrap, Manson Microclite Insulation, or Knafuf Duct Wrap with factory applied reinforced foil facing.		
6.23.3.	Silencers and acoustic plenums do not require external insulation.		
6.23.4.	Sheet metal with 25mm (1") acoustic insulation or more do not require external insulation.		
6.23.5.	Supply and Ventilation Ductwork		
6.23.5.1.	Flexible type 50mm (2") thick		
6.23.5.2.	Vapour barrier		
6.23.6.	10' of ductwork entering and exiting building		
6.23.6.1.	Rigid type 25mm (1") thick		
6.23.6.2.	Vapour Barrier		
6.23.7.	Exposed ductwork		
6.23.7.1.	In conditioned space as indicated		
6.23.7.2.	Rigid type 25mm (1") thick		
6.23.7.3.	Vapour Barrier		
6.23.8.	Ductwork outside of building or exposed to outdoor conditions		
6.23.8.1.	Rigid type 25mm (1") thick		
6.23.8.2.	Vapour Barrier		
6.23.8.3.	Stainless steel jacket complete with stainless steel bands		
6.23.9.	Panels behind unused portions of louvers		
6.23.9.1.	Rigid type 50mm (2") thick		
6.23.9.2.	Vapour barrier		
7.	Acoustic Duct Lining		
7.1.	Provide 25mm (1") acoustic duct lining within 10 feet of air handling equipment and fans, and where indicated.		
7.2.	Duct lining to have a noise reduction coefficient of 70 or higher.		
7.3.	Duct lining shall be plenum rated (FSR 24, SDR 50)		
7.4.	ASTM C 1071, ASTM G 21, ASTM G 22, ASTM C 423, ASTM C 916, ULC-S102		
7.5.	Unless indicated otherwise, acoustically lined ductwork does not require insulation.		
7.6.	Provide fiber free duct liner where noted on plans.		
8.	Electrical and Control		
8.1.	The mechanical contractor shall provide all necessary hard wiring between controlling devices and associated equipment.		
8.2.	Low Voltage - Provide transformer and low voltage wiring from transformer to equipment and controlling devices.		
8.3.	Line Voltage - Where control devices are operating line voltage, the mechanical contractor shall provide all wiring between equipment and controlling devices. Mechanical contractor shall retain a licensed electrician to perform all installation to ESA and all applicable codes and standards.		
8.4			





The diagram illustrates the control system for the HRV-1 unit. A central control unit is connected to three output devices. The central unit has a circular display with 'H', 'O', and 'A' indicators. It also features two switch symbols labeled 'RUNNING LIGHT' and 'HEAT ON/OFF'. The connections are as follows:

- TIMECLOCK** is connected to the central unit.
- DC ON/OFF COMMAND** is connected to the central unit and the **HRV-1** unit.
- DC OPEN/CLOSE COMMAND** is connected to the central unit and the **MOTORIZED DAMPER**.
- DC HEAT REQUEST** is connected to the central unit and the **DUCT HEATER CONTROLLER (FUTURE)**.

**SEQUENCE OF OPERATION**

HRV-1 HAND-OFF-AUTO STARTER INTERLOCK WITH HRV-1, MOTORIZED DAMPER, AND TIMECLOCK. PROVIDE INTERLOCK FOR SIGNAL FROM FUTURE DUCT HEATER.

**NORMAL OPERATION:**

- HOA SELECTOR SWITCH TO 'AUTO'.
- TIMECLOCK SCHEDULE 'ON' (ADJUSTABLE) - MOTORIZED DAMPER OPENS, AND HRV-1 TURNS ON AND RUNS CONTINUOUSLY.
- TIMECLOCK SCHEDULE 'OFF' (ADJUSTABLE) - MOTORIZED DAMPER CLOSES, AND HRV-1 TURNS OFF.
- HEAT REQUEST:

  - IF HEAT REQUEST FROM FUTURE DUCT HEATER CONTROLLER IS ACTIVATED, AND TIMECLOCK SCHEDULE IS 'OFF', MOTORIZED DAMPER AND HRV-1 TIMECLOCK CONTROLS ARE OVERRIDDEN, AND COMMANDED TO OPEN AND RUN CONTINUOUSLY (IF TIMECLOCK SCHEDULE IS 'OFF').
  - WHEN HEAT REQUEST IS DEACTIVATED, MOTORIZED DAMPER AND HRV-1 COMMAND RETURNS BACK TO TIMECLOCK CONTROL.

- HOA SELECTOR SWITCH TO 'HAND' - MOTORIZED DAMPER OPEN AND HRV-1 TURNS ON AND RUNS CONTINUOUSLY.
- HOA SELECTOR SWITCH TO 'OFF' - MOTORIZED DAMPER CLOSE AND HRV-1 REMAINS OFF.

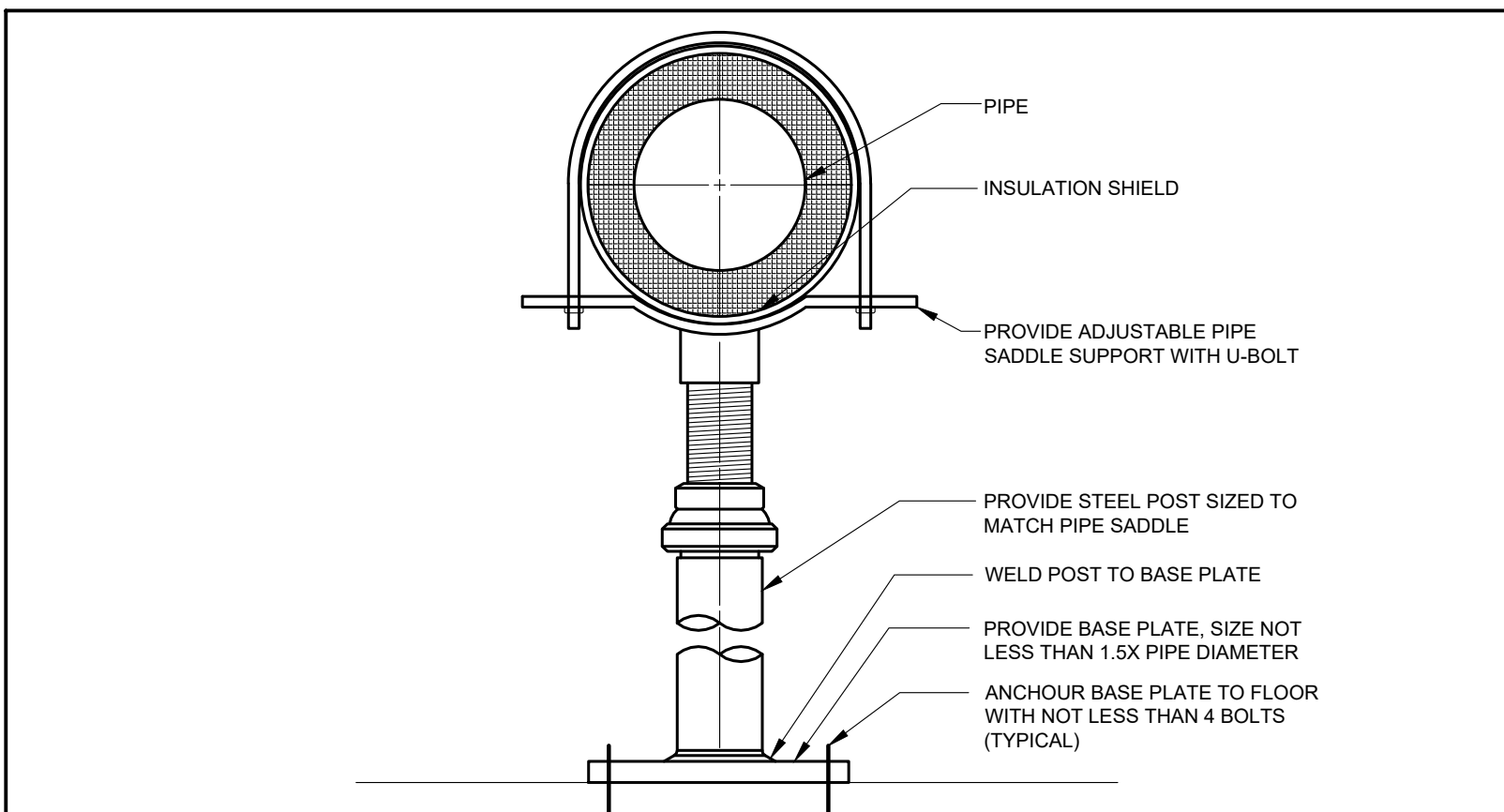


Diagram illustrating the installation of a hot water heater, showing various components and their connections:


- PROVIDE HOT WATER HEATER. REFER TO SCHEDULE AND PLANS.
- PROVIDE ISOLATION VALVE AND UNION (TYPICAL)
- PROVIDE CHECK VALVE
- PROVIDE EXPANSION TANK. AMTROL ST-5C-DD
- PROVIDE THREADED ROD ANCHOURS TO ROOF OR WALL STRUCTURE TO ADEQUATELY SUPPORT OPERATING WEIGHT OF THE HOT WATER HEATER.
- PROVIDE DIAGONAL BRACING AND HARDWARE.
- DRAIN T&P RELIEF VALVE TO PAN.
- PROVIDE 13mm (1/2") THREADED ROD AND HARDWARE (TYPICAL)
- PROVIDE HOT WATER HEATER HANGING PLATFORM EQUAL TO HOLDRITE QUICK STAND.
- PROVIDE 25mm (1") DRAIN TO NEAREST FLOOR DRAIN.
- 25mm (1")

**GENERAL NOTES:**

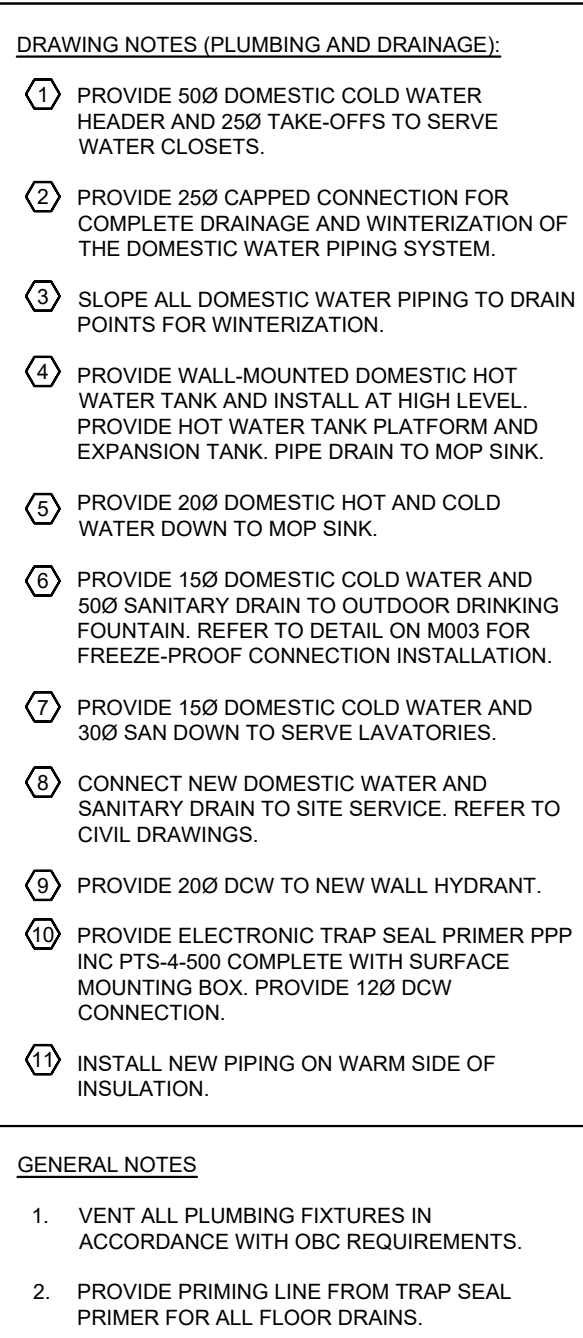
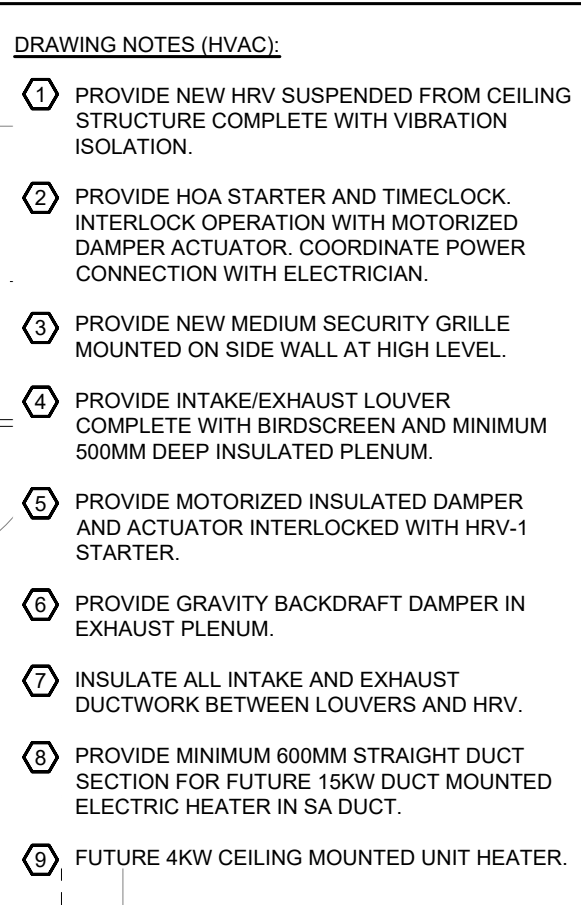
1. INSTALL HOT WATER HEATER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. SUBMIT SHOP DRAWING OF ANCHORING SYSTEM TO MECHANICAL AND STRUCTURAL CONSULTANTS FOR REVIEW.
3. REFER TO PLANS FOR PIPE SIZES.
4. ADJUST EXPANSION TANK PRE-CHARGE PRESSURE ON SITE.
5. PROVIDE CEILING ACCESS TO SERVICE HOT WATER HEATER.

M002

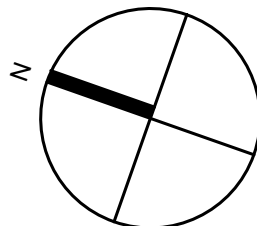


Project Title	
	
<h1>COMFORT STATION</h1> <h1>HURON PARK</h1>	
830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1	
Sheet Title	
<h2>PLUMBING FIXTURES</h2>	
Project Number	24-053
Date	Oct. 2024
Drawn	AS
Checked	AS
Scale	AS SHOWN
Drawing Number	
<h1>M003</h1>	





REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1	2024-11-15	ISSUED FOR 60% DD
2	2024-12-20	ISSUED FOR PERMIT
3	2025-01-30	ISSUED FOR CLIENT'S REVIEW - PRE TENDER
4	2025-03-29	ISSUED FOR PERMIT REVISION
5	2025-09-10	ISSUED FOR CLIENT REVIEW
6	2025-10-03	ISSUED FOR PERMIT
7	2025-10-08	ISSUED FOR TENDER



**T. Smith**  
Engineering Inc.

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Project Title \_\_\_\_\_



830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

MECHANICAL  
NEW

Project Number	24-053
Date	Oct. 2024
Drawn	AS
Checked	AS
Scale	AS SHOWN
Drawing Number	

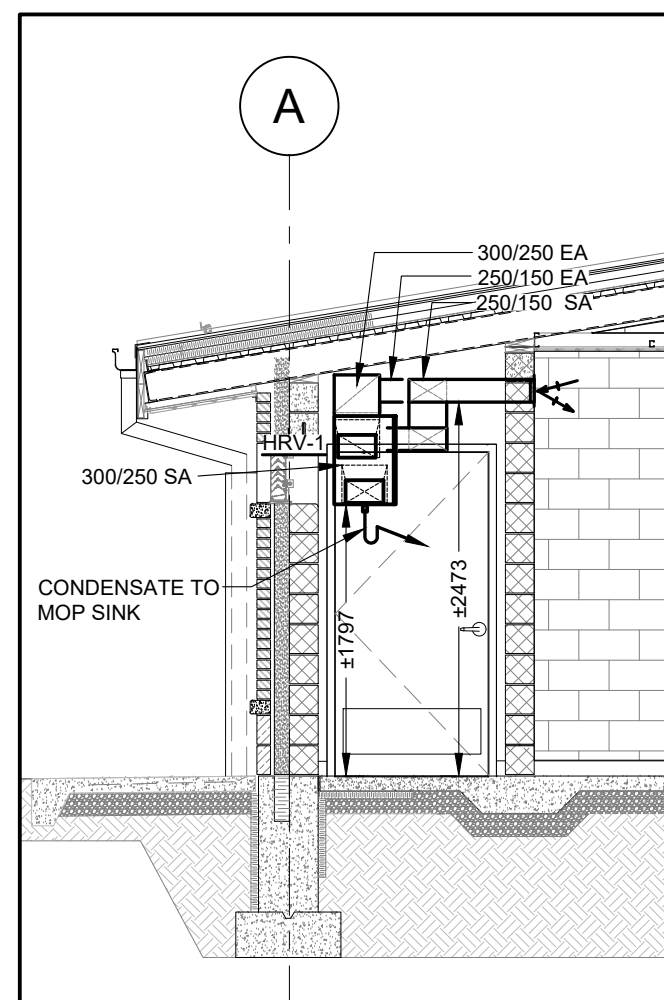
M100

2 COMFORT STATION - PLUMBING AND DRAINAGE  
M100 SCALE: 1:50

HEAT RECOVERY VENTILATOR																												
TAG	LOCATION	MANUFACTURER	MODEL	FAN								HEAT EXCHANGER				DEFROST	FILTERS	ELECTRICAL					DIMENSIONS			WEIGHT		COMMENTS
				SUPPLY				RETURN				EFFECTIVENESS		MERV	VOLTAGE			PHASE	HZ	MCA	MOCP	UNIT			LBS	KG		
				AIRFLOW (CFM)	E.S.P.	HP	TYPE	AIRFLOW (CFM)	E.S.P.	HP	TYPE	%										L (MM)	W (MM)	H (MM)				
HRV-1	STORAGE	NU-AIR	NH500-CDPA118	465	0.45	FRAC	PSC	465	0.45	FRAC	PSC	SUMMER	15	BYPASS	8	120	1	60	5.5	15	914	406	584	100	45	SEE NOTES		
NOTE:				1. PROVIDE DISCONNECT AND STARTER FOR ALL EQUIPMENT		2. PROVIDE CSA APPROVED MOTOR		3. PROVIDE INTERLOCK CONTACTS TO OPERATE OUTDOOR AIR DAMPER		4. PROVIDE DRY CONTACT FOR 24V CONTROL SIGNAL		5. PROVIDE HANGING VIBRATION ISOLATION.																

HOT WATER TANK - ELECTRIC																	
TAG	SERVICE	MANUFACTURER	MODEL	STORAGE VOLUME		HEATING ELEMENTS			RECOVERY	ELECTRICAL			DIMENSION		WEIGHT (INCLUDING WATER)		COMMENTS
				US GAL	LITERS	QTY	KW	MBH		GAL/HR	VOLT	PH	HZ	DIAMETER (MM)	HEIGHT (MM)	LBS	
HWT-1	MOP SINK	AO SMITH	DEL-10	10	38	1	3	10.236	12	240	1	60	457	464	150	68	SEE NOTES
NOTE: 1. PROVIDE DISCONNECT AND STARTER FOR ALL EQUIPMENT      2. RECOVERY RATE IS BASED ON 100F TEMPERATURE RISE      3. PROVIDE HOLDRITE QUICK STAND WALL MOUNTED WATER HEATER PLATFORM																	

HEAT TRACING SYSTEM AND COMPONENTS (RAYCHEM)		
ITEM	CATALOG NUMBER	DESCRIPTION
	B/6ISA2100106, 1/136/1207/S20A/N/12	120V Raychem XME-A Single Conductor Heating Cable (terminated)
T0002069	MJB-864-A	Junction Box
P000000181	JBS-100-ECW-A	Electronic temperature controller
RTD10CS	RTD10CS	Raychem RTD with 10 foot S/S corrugated shield
P72203-000	ETL-ENGLISH	Electric Traced Label for traced pipes and tanks
CB25	PB125	Pipe strap for M1 cables - 1.25 in. (pack of 50 pc)
RTD211-000	PS-1	Pipe Strap 1/4 to 1 in.
Design Conditions:	Pipe Maintenance: 40°F, Min Ambient: -20°F, Max Ambient: 104°F	
POWER REQUIREMENT: 120V/160 - 35A MCCP		



This diagram illustrates the mechanical layout for the 1st floor, showing the placement of ductwork, equipment, and structural elements. The layout is divided into four sections, numbered 1 through 4. Key components include:

- HRV-1**: A Heat Recovery Ventilator unit located in section 1.
- FUTURE DUCT HEATER**: A heater unit located in section 2.
- Ductwork**: Various ducts are shown, including 250/300 OA (Outside Air), 250/300 EA (Exhaust Air), 250/300 SA (Supply Air), 150/250 SA (Supply Air), and 300 EA (Exhaust Air).
- Structural Elements**: The layout shows the placement of columns and walls, with dimensions indicating the spacing between them.
- Dimensions**: Key dimensions are provided, such as 11950, 1197, 1800.2, 2153, 22498, 2183, 2473, and 2473.

5 SECTION B  
M100 SCALE: 1:50

3 DOMESTIC WATER PIPING SCHEMATIC  
M100 N.T.S.



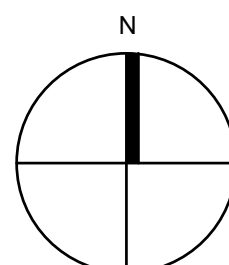
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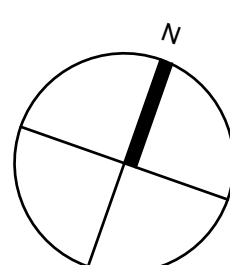
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REVISIONS/SUBMISSIONS

No.	DATE	DESCRIPTION
01.	NOV 6, 2024	ISSUED FOR REVIEW
02.	NOV 18, 2024	ISSUED FOR 60% DD
03.	JAN 06, 2025	ISSUED FOR PERMIT
04.	JAN 30, 2025	ISSUED FOR CLIENT'S REVIEW - PRE TENDER
05.	SEP 12, 2025	ISSUED FOR CLIENT'S REVIEW
06.	SEP 25, 2025	ISSUED FOR RE-COSTING CLASS B
07.	OCT 03, 2025	ISSUED FOR PERMIT
08.	OCT 08, 2025	ISSUED FOR TENDER



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Professional Engineering Design Services

Project Title



**COMFORT STATION  
HURON PARK**

830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

Sheet Title

**NEW ELECTRICAL  
LAYOUTS**

Project Number 24-123

Date OCTOBER 2025

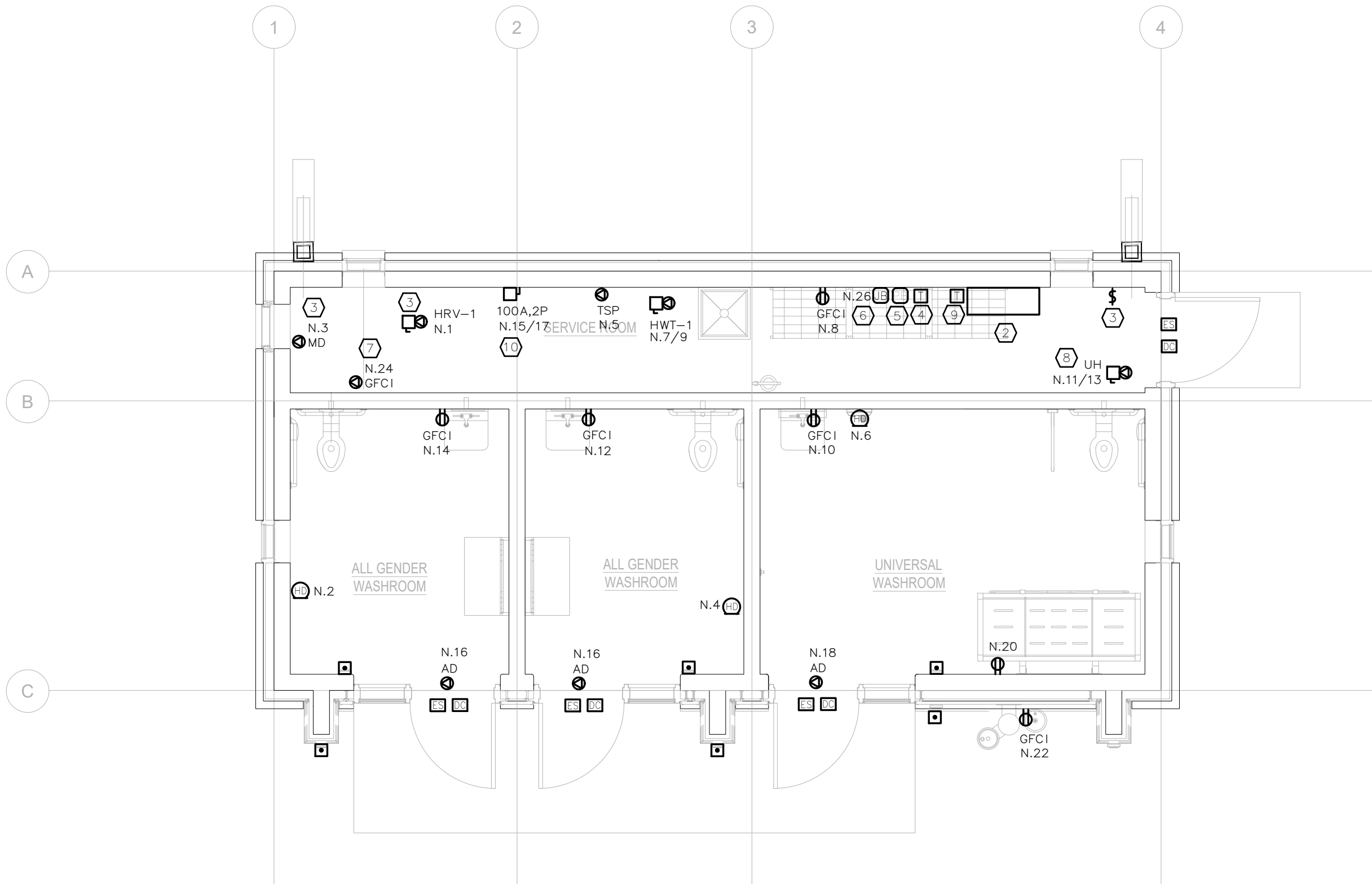
Drawn N.Y.

Checked F.R.B.

Scale AS SHOWN

Drawing Number

**E101**

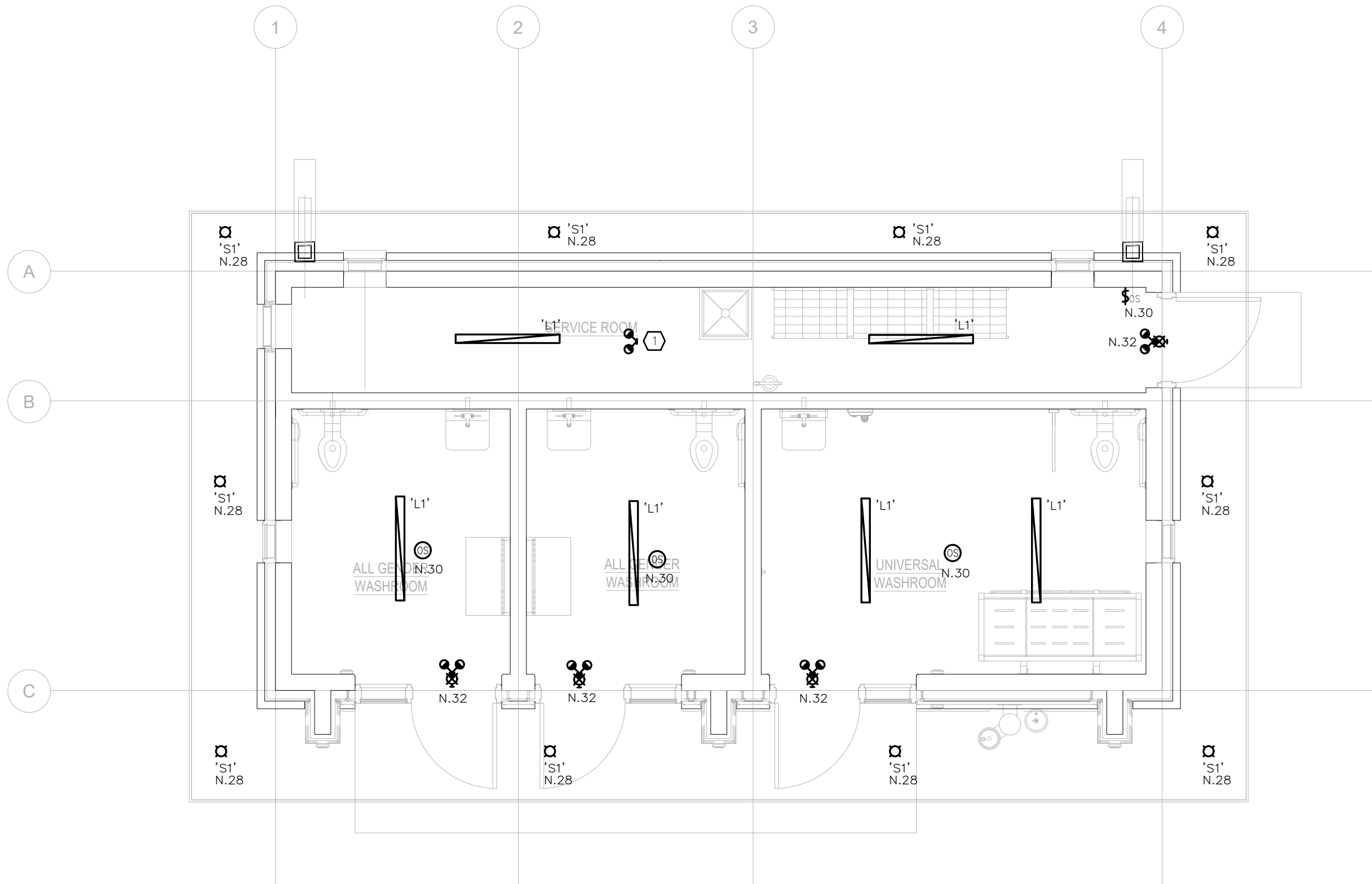


KEY NOTES:

- PROVIDE A FULLY FUNCTIONAL UNIVERSAL WASHROOM AS PER LATEST OBC REQUIREMENTS. REFER TO 2/E103 FOR MORE DETAILS.
- APPROXIMATE LOCATION OF NEW ELECTRICAL PANEL RP-N. FINAL LOCATION SHALL BE VERIFIED ON SITE.
- PROVIDE ALL REQUIRED LINE VOLTAGE WIRING FOR NEW HRV-1 AND ITS MOTORIZED DAMPER'S STARTER. COORDINATE SCOPE OF WORK WITH MECHANICAL DRAWINGS.
- SECURITY PULL BOX, TERMINATE ALL EMPTY CONDUITS FOR DOOR'S SECURITY WIRING INSIDE THE PULL BOX.
- PROVIDE A DIGITAL TIME CLOCK AND TIE INTO THE SECURITY PANEL TO ENERGIZE AND DE-ENERGIZE THE ELECTRICAL STRIKES. COORDINATE ALL REQUIREMENTS WITH SECURITY CONTRACTOR, COORDINATE HOURS OF OPERATIONS WITH CLIENT'S REPRESENTATIVE.
- 120V JUNCTION BOX FOR SECURITY SYSTEM SUPPLIED AND INSTALLED BY OTHERS.
- POWER CONNECTION FOR NEW HEAT TRACING SYSTEM. PROVIDE ALL REQUIRED WIRING AND CONDUITS TO SUIT. COORDINATE EXACT LOCATION AND SCOPE OF WORK WITH MECHANICAL DRAWINGS.
- POWER CONNECTION FOR FUTURE UNIT HEATER. TERMINATE WIRING AND CONDUITS IN A CEILING-MOUNTED JUNCTION BOX AND CLEARLY LABEL "POWER CONNECTION FOR FUTURE UNIT HEATER".
- APPROXIMATE LOCATION OF NEW DIGITAL TIME CLOCK FOR GENERAL LIGHTING.
- POWER CONNECTION FOR FUTURE ELECTRIC DUCT HEATER. TERMINATE WIRING AND CONDUITS IN A WALL MOUNTED DISCONNECT SWITCH, CLEARLY LABEL "POWER CONNECTION FOR FUTURE ELECTRIC DUCT HEATER".

**ELECTRICAL - NEW POWER LAYOUT**

SCALE: 1:50



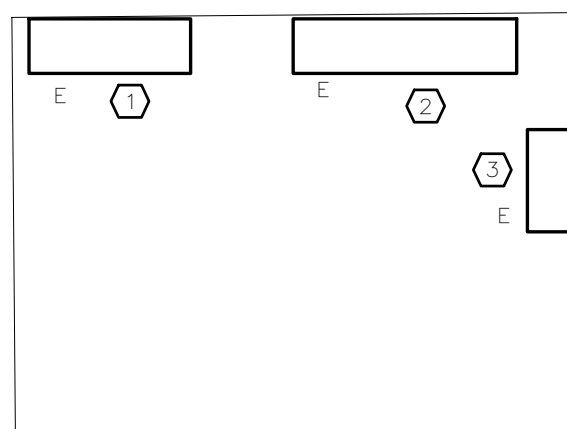
KEY NOTES:

- EMERGENCY REMOTE HEAD SHALL BE CONNECTED TO EXIT SIGNS BATTERY UNIT IN THE BACK AREA. PROVIDE ALL REQUIRED WIRING AND CONDUITS TO SUIT.

**ELECTRICAL - NEW LIGHTING LAYOUT**

SCALE: 1:50

DESCRIPTION	LOAD (KW)	BRKR	CCT No	PH	CCT No	BRKR	LOAD (KW)	DESCRIPTION	
HRV-1	-	15	1	A	2	20	-	HAND DRYER	
MOTORIZED DAMPER	-	15	3	B	4	20	-	HAND DRYER	
TSP	-	15	5	A	6	20	-	HAND DRYER	
HWT-1	-	20	7	B	8	20	-	GFI RECEPTACLES	
UH 2#3+G-1.25°C	-	2P	9	A	10	20	-	GFI RECEPTACLES	
		30	11	B	12	20	-	GFI RECEPTACLES	
		2P	13	A	14	20	-	GFI RECEPTACLES	
FUTURE ELECTRIC DUCT HEATER 2#10+G-0.75°C	-	80	15	B	16	20	-	UNIVERSAL WASHROOM/AD	
		2P	17	A	18	20	-	AUTO DOORS	
SPARE	-	15	19	B	20	20	-	RECEPTACLE	
SPARE	-	15	21	A	22	20	-	WATER FOUNTAIN	
SPARE	-	15	23	B	24	15	-	HEAT TRACE (GFCI)	
-	-	-	25	A	26	15	-	SECURITY SYSTEM	
-	-	-	27	B	28	20	-	EXTERIOR LIGHTING	
-	-	-	29	A	30	20	-	INTERIOR LIGHTING	
-	-	-	31	B	32	20	-	EXIST SIGNS	
NOTES: -								PANEL RP-N	
VOLTS (V): 120/240								FLUSH	<input type="checkbox"/>
PHASE: 3								SURFACE	<input checked="" type="checkbox"/>
WIRES: 3								SPRINKLERPROOF	<input checked="" type="checkbox"/>
MAINS (A): 225								FED THRU LUGS	<input type="checkbox"/>
I.C. (K.A): 10								MAIN BREAKER	<input checked="" type="checkbox"/> 200A,2P



KEY NOTES:

- EXISTING 600A, 120/240V ELECTRICAL PANEL A.
- EXISTING MAIN 600/600A,2P FUSIBLE DISCONNECT SWITCH.
- EXISTING HYDRO METERING CABINET.

**EXISTING SITE ELECTRICAL ROOM DETAIL**

SCALE: 1:50





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830 PAISLEY BLVD. WEST, MISSISSAUGA, ON. L5C 4P1

Sheet Title

Project Number 24-123

Date OCTOBER 2025

Drawn N.Y.

Checked \_\_\_\_\_ F.R.B. \_\_\_\_\_

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Drawing Number

E102



