

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.

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:

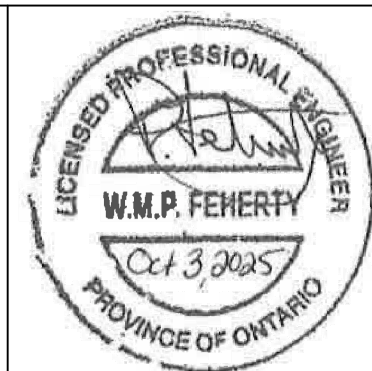
1. EROSION AND SEDIMENT (ESC) CONTROL MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
2. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE THE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
3. ALL SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE INSPECTED WEEKLY, AFTER EVERY RAINFALL AND SIGNIFICANT SNOW MELT EVENT, AND DAILY DURING PERIODS OF EXTENDED RAIN OR SNOW MELT.
4. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR TRAFFIC REFUELING AND MAINTENANCE WILL BE CONDUCTED 30 METERS FROM THE WATER.
5. ALL DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
6. THE CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS.
7. STABILIZE SITE AS SOON AS POSSIBLE BY RE-ESTABLISHING VEGETATIVE GROUND COVER AND AVOIDING BARE SOIL AREAS. ALL AREAS (INCLUDING STOCKPILES) WHERE SITE IMPROVEMENTS ARE NOT EXPECTED TO OCCUR IMMEDIATELY SHALL BE RE-VEGETATED WITH 100mm OF TOPSOIL AND SEED.
8. ALL DRAINAGE WORKS REQUIRE EROSION/SEDIMENT CONTROL SATISFACTORY TO THE APPROVAL AGENCIES DURING CONSTRUCTION PERIOD AND MUST BE MONITORED AND MAINTAINED ON A REGULAR BASIS TO ENSURE MAXIMUM BENEFIT AND MINIMUM SILT MIGRATION OFF-SITE.
9. ALL EXCESS MATERIALS TO BE REMOVED OFF-SITE.
10. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL COMPLETION OF THE WORK AND ESTABLISHMENT OF ALL LANDSCAPED AREAS.

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[illegible]

309 Roywood Crescent
Newmarket, Ontario
L3Y 1A6

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



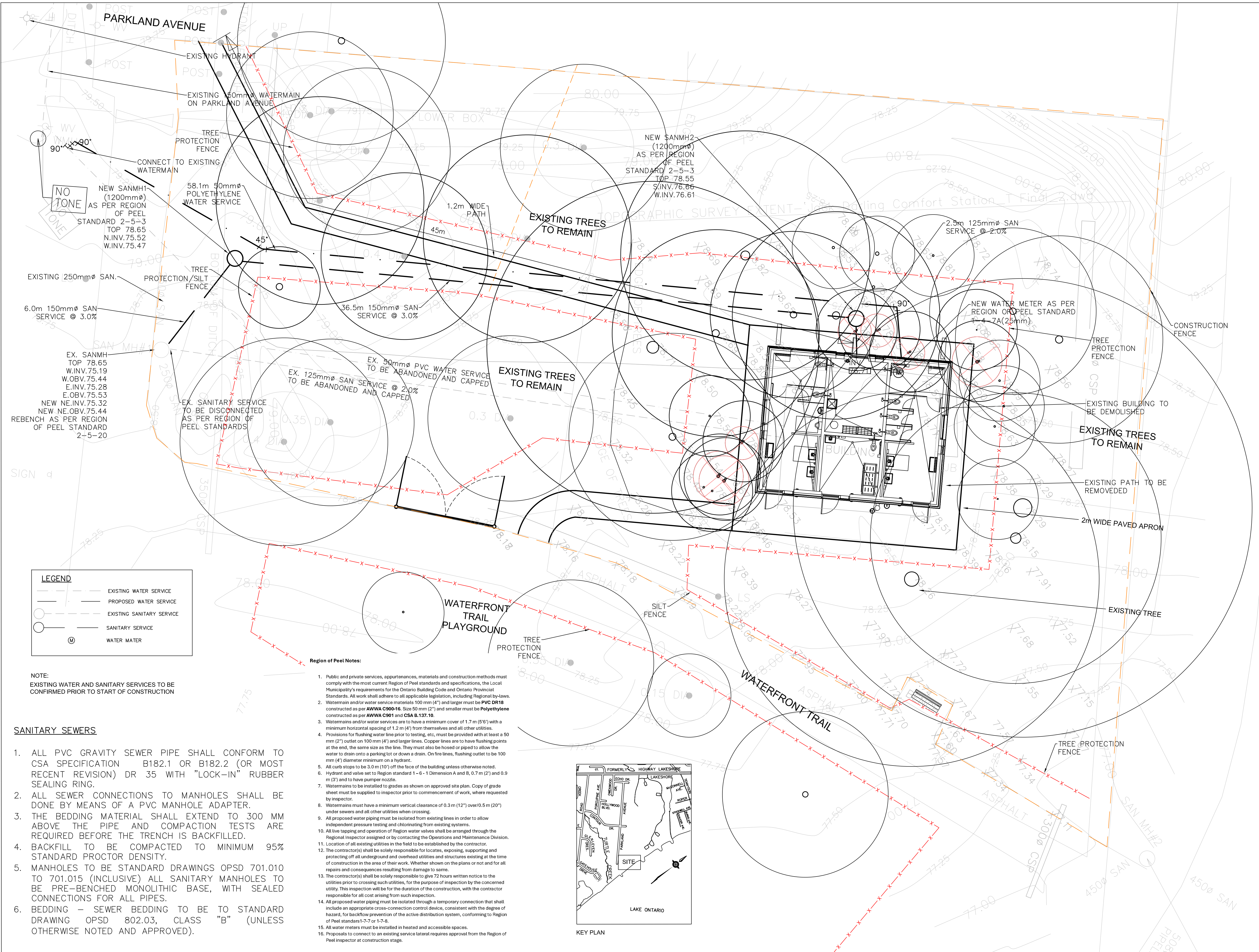
Project Title	
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COMFORT STATION
JACK DARLING
MEMORIAL PARK
LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

Sheet Title

GRADING PLAN

Project Number	24-38
Date	OCTOBER 2024
Drawn	NP
Checked	
Scale	1:100
Drawing Number	GR-1



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REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1.	Nov.13, 2024	Issued for 60%Costing
2.	Nov., 2024	Issued for Site Servicing Permit
3.	Nov.27, 2024	Issued for CVCA review
4.	Dec.09, 2024	Issued for Building Permit
5.	Jan.08,2025	Revised as per CVCA & Peel Region Comments
6.	Jan.28,2025	Revised as per Peel Region Comments
7.	Jan.30,2025	Issued for Client Review-Pre-tender
8.	Sept.12,2025	Issued for Costing
9.	Sept.12,2025	Issued for Site Plan Approval
10.	Oct.03,2025	Issued for Building Permit
11.	Oct.03,2025	Issued for Tender

BaseTech Consulting Inc.

309 Bayview Crescent
North York, Ontario
M2H 1A6

Phone : (905) 251-7720
e-mail : basestechconsulting@ogers.com

PROFESSIONAL ENGINEER
W.M.P. FENERTY
Oct 3, 2025
PROVINCE OF ONTARIO

Project Title

**COMFORT STATION
JACK DARLING
MEMORIAL PARK**
1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

Sheet Title

SITE SERVICING PLAN

Region of Peel Number:	C604426
Project Number	24-38
Date	OCTOBER 2024
Drawn	NP
Checked	
Scale	1:100
Drawing Number	SS-1

NOTE:
EXISTING WATER AND SANITARY SERVICES TO BE
CONFIRMED PRIOR TO START OF CONSTRUCTION

SANITARY SEWERS

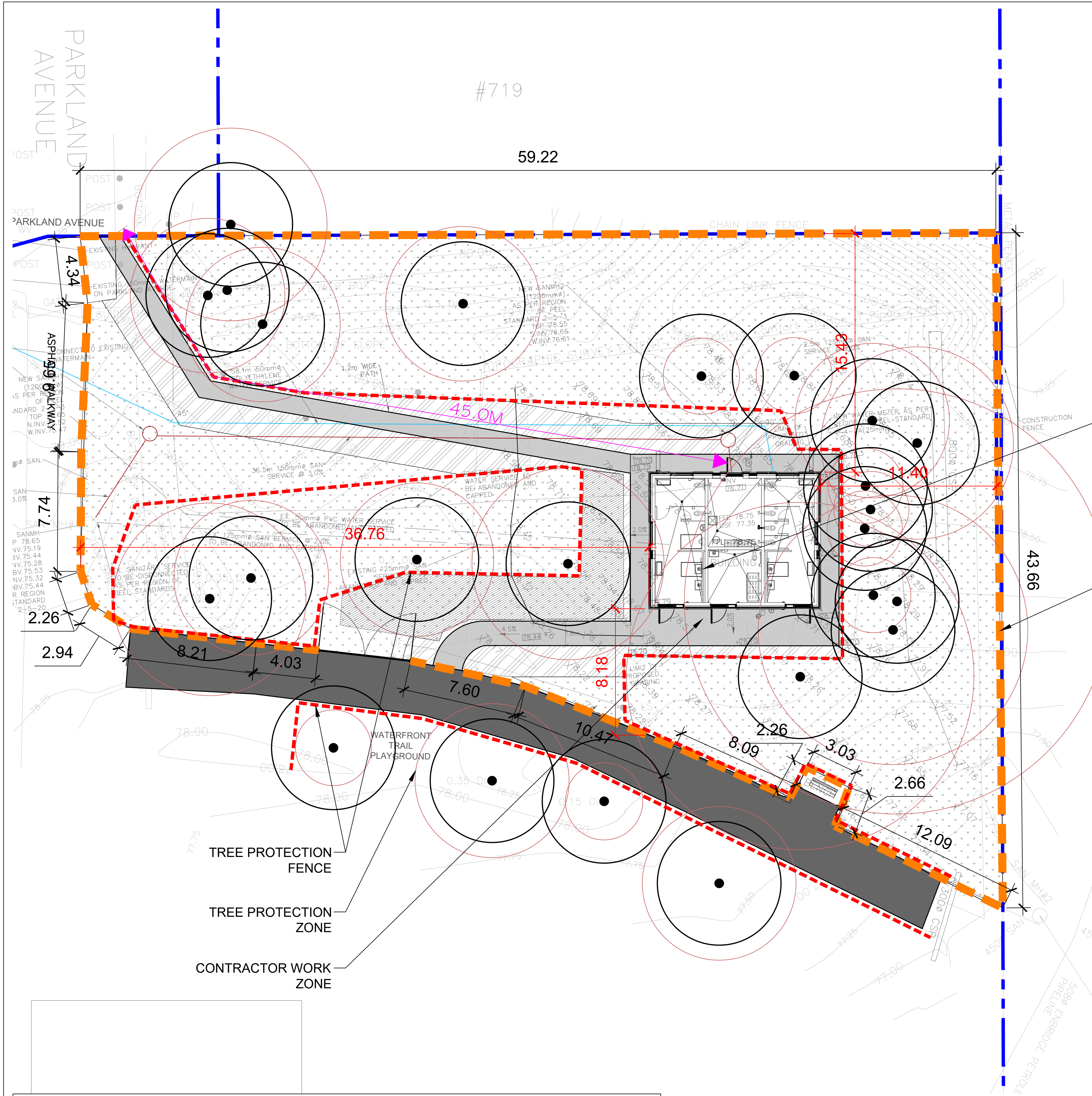
- ALL PVC GRAVITY SEWER PIPE SHALL CONFORM TO CSA SPECIFICATION B182.1 OR B182.2 (OR MOST RECENT REVISION) DR 35 WITH "LOCK-IN" RUBBER SEALING RING.
- ALL SEWER CONNECTIONS TO MANHOLES SHALL BE DONE BY MEANS OF A PVC MANHOLE ADAPTER.
- THE BEDDING MATERIAL SHALL EXTEND TO 300 MM ABOVE THE PIPE AND COMPACTION 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).

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 8, 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 7-7 or 7-7.8.
- 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.

KEY PLAN

LAST REVISED OCTOBER 3–2025



*** LEGEND:**

PROPOSED SHRUBS

EXISTING BENCH

TEMPORARY CONSTRUCTION FENCE (MIN 2.1M HIGH)

TREE PROTECTION FENCE

PROPERTY/LOT LINE

EXISTING WATERFRONT TRAIL

PROPOSED CONCRETE APRON/ ASPHALT WALKWAY

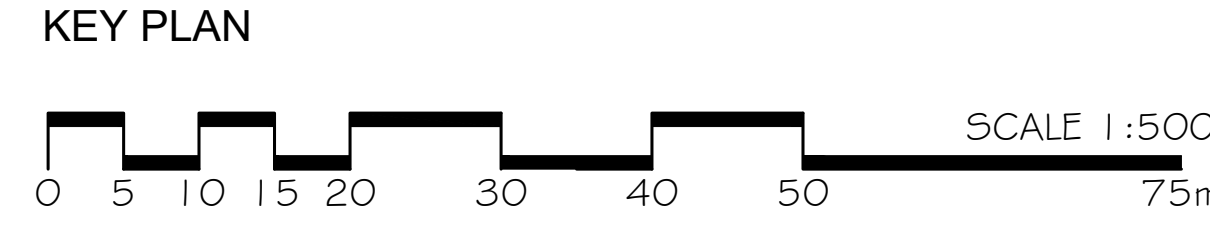
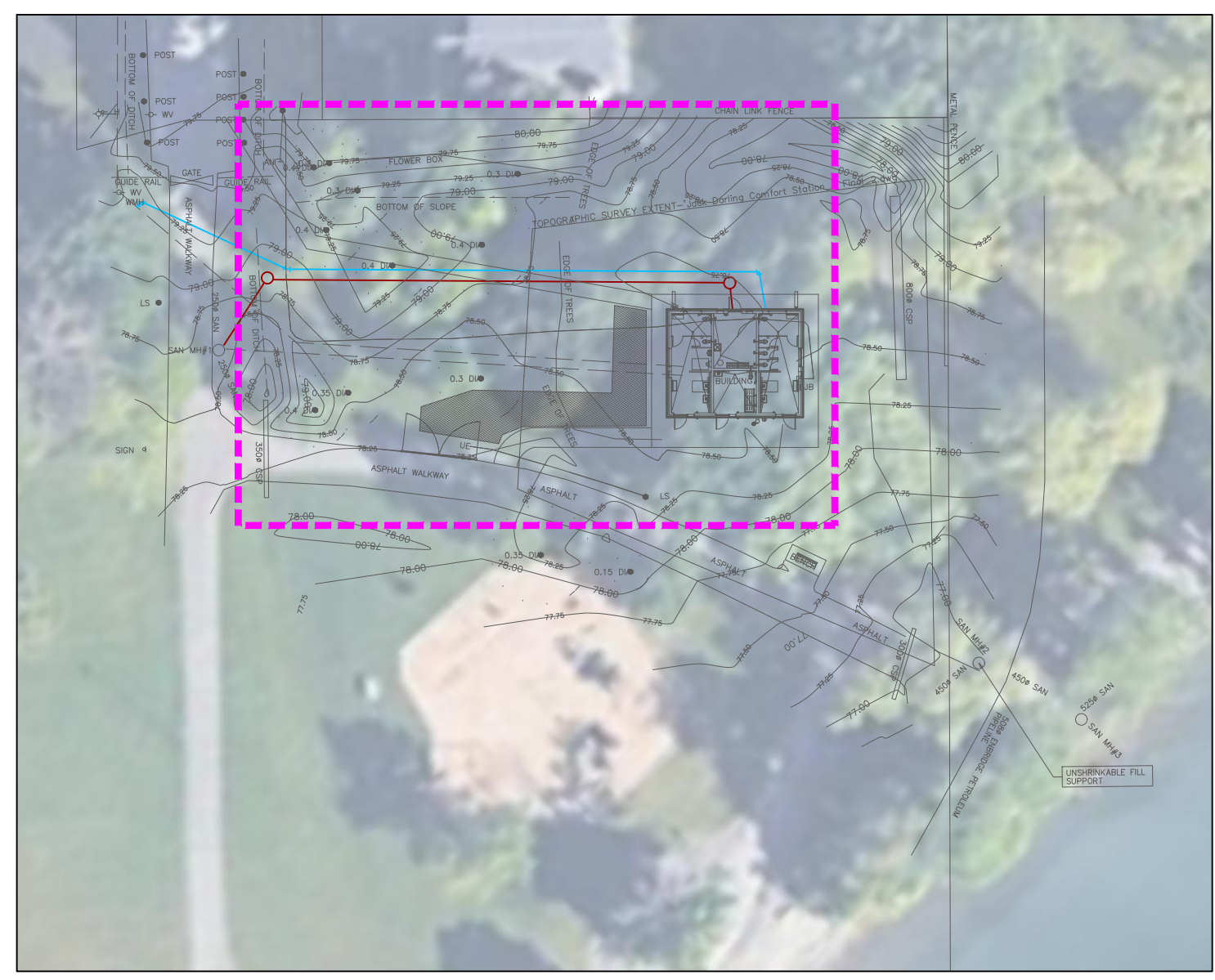
EXISTING LANDSCAPE AREA

PROPOSED LANDSCAPE AREA

DOUBLE SWING ACCESS GATE



***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.



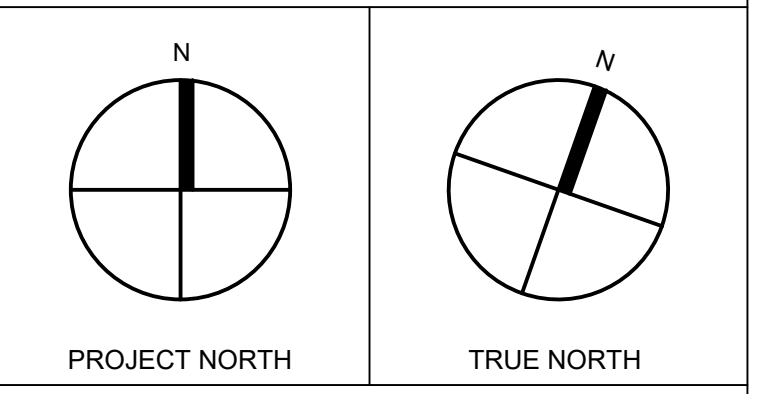
PROPOSED WASHROOM BUILDING

TEMPORARY CONSTRUCTION FENCE

PROJECT STATISTICS - NON RESIDENTIAL					
ADDRESS: Lakeshore Rd W, 1180 Lakeshore Rd W, Mississauga, ON L5H 1A1					
PROPOSED USE: Comfort Station at Jack Darling Park					
	EXISTING		REQUIREMENT	REQUIRED	PROPOSED
TOTAL SITE AREA (sq.m.)					
	2081.6 m ²	0.51 Ac.			446.0 m ² 0.11 Ac.
BUILDING (G.F.A. = GROSS FLOOR AREA)					
PROPOSED					
FOOTPRINT (G.F.A.)	64.0 m ²	688.6 Ft ²			97.0 m ² 0.02 Ac.
COVERAGE					21.7%
BUILDING SETBACKS					
FRONT LOT LINE					8.2 m 26.8 Ft
EAST SIDE LOT LINE					11.4 m 37.4 Ft
WEST SIDE LOT LINE					36.8 m 120.6 Ft
REAR LOT LINE					15.4 m 50.6 Ft
PARKING					
STANDARD SPACES	NA				
ACCESSIBLE	NA				
CHILDCARE STANDARD SPACES	NA				
CHILDCARE ACCESSIBLE SPACES	NA				
TOTAL SPACES	NA				
LANDSCAPE					
AREA	1897.3 m ²	0.47 Ac.			165.1 m ² 0.04 Ac.
COVERAGE					37.0%
HARDSCAPE					
AREA	64.1 m ²	0.0 Ac.			112.4 m ² 0.03 Ac.
COVERAGE					25.2%
SURFACE PARKING, DRIVEWAY, AND LOADING AREA					
AREA	NA				
COVERAGE	NA				

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No.	DATE	DESCRIPTION
01	2024-11-11	ISSUED FOR DEMOLITION PERMIT
02	2024-11-27	ISSUED FOR CVCA REVIEW
03	2024-12-06	ISSUED FOR BUILDING PERMIT
04	2025-01-08	RESUBMITTED PER COMMENTS
05	2025-01-30	ISSUED FOR CLIENT REVIEW - PRE TENDER
06	2025-09-12	ISSUED FOR SPA RESUBMISSION
07	2025-09-12	ISSUED FOR TREE INJURY/REMOVAL PERMIT
08	2025-10-03	ISSUED FOR BUILDING PERMIT
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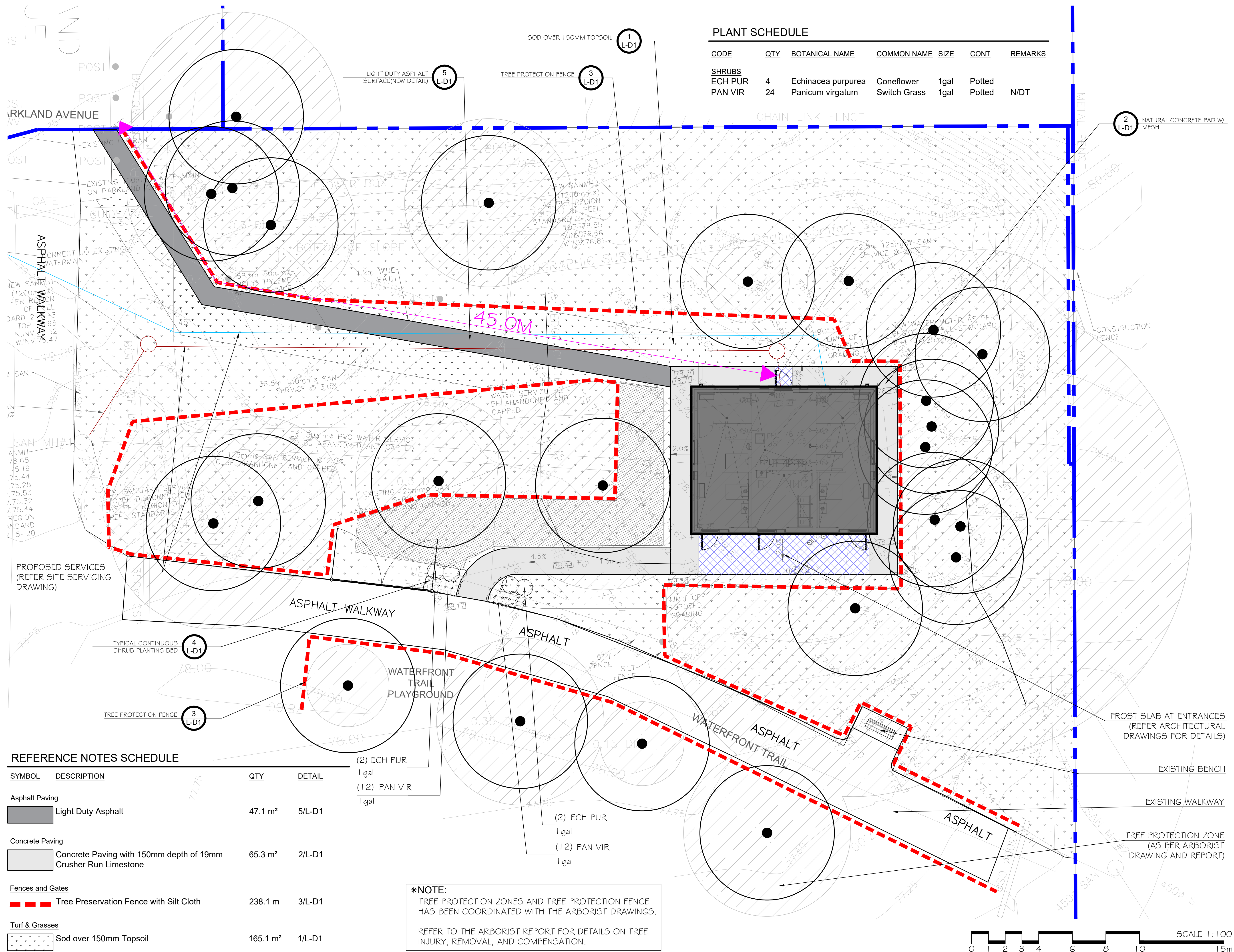
Cellucci+Pace
ARCHITECTURE | PLANNING | PROJECT MANAGEMENT
510 Rowntree Dairy Rd. Unit 3C
Woodbridge, ON Canada L4L 8H2
Tel. 416 855 2260
www.cplusp.ca



Project Title
**COMFORT STATION
JACK DARLING
MEMORIAL PARK**
1180 LAKESHORE RD W, MISSISSAUGA, ON. L5H 3G7

Sheet Title
SITE PLAN

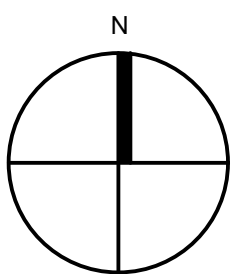
Project Number	24-053
Date	Oct. 2024
Drawn	RN
Checked	KF
Scale	AS SHOWN
Drawing Number	L-SP



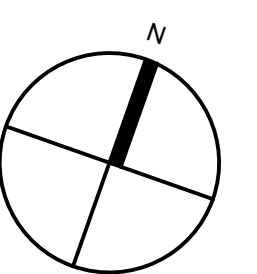
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PROJECT NORTH



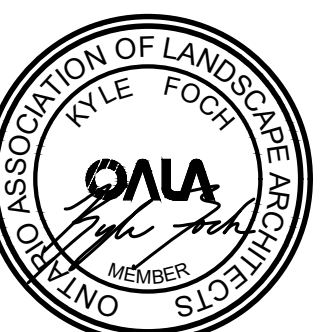
TRUE NORTH

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



Project Title



COMFORT STATION
JACK DARLING
MEMORIAL PARK

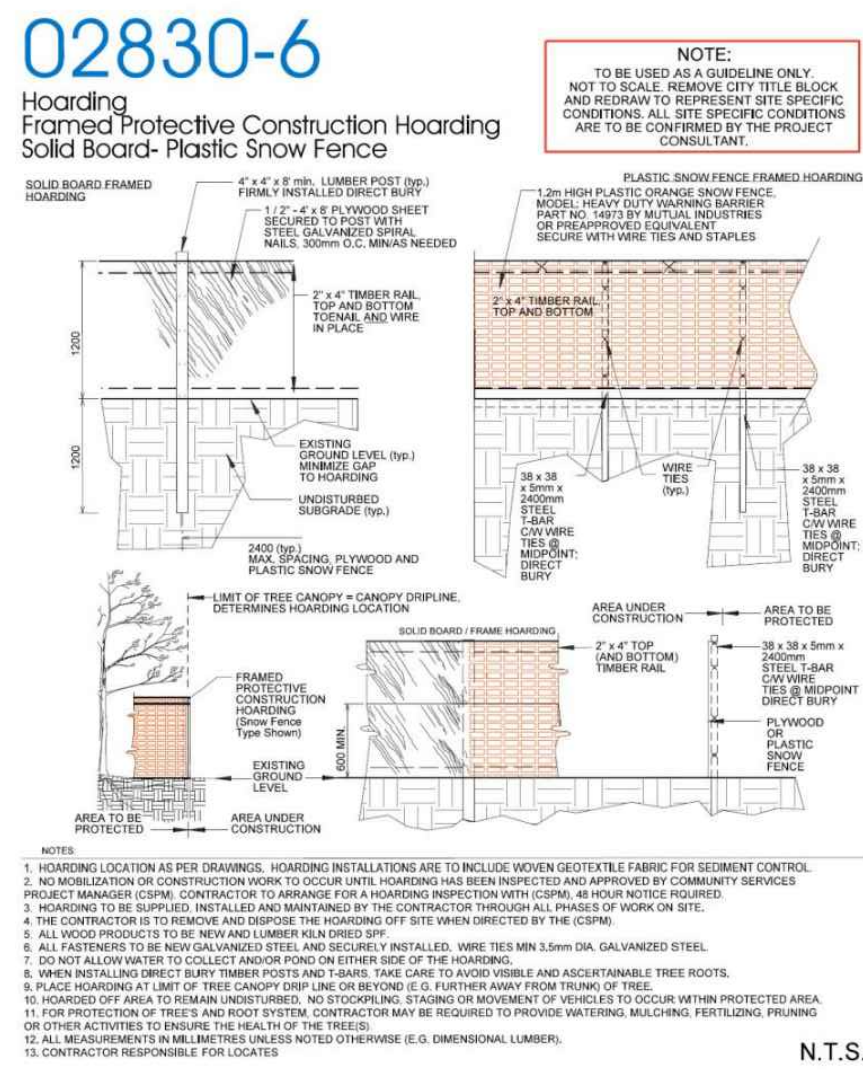
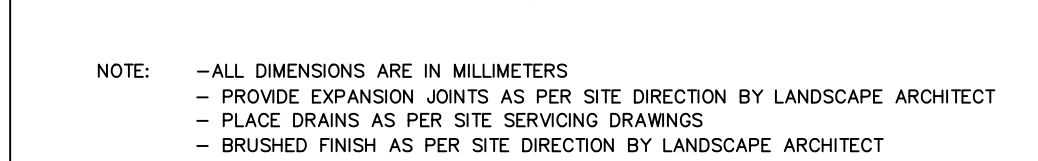
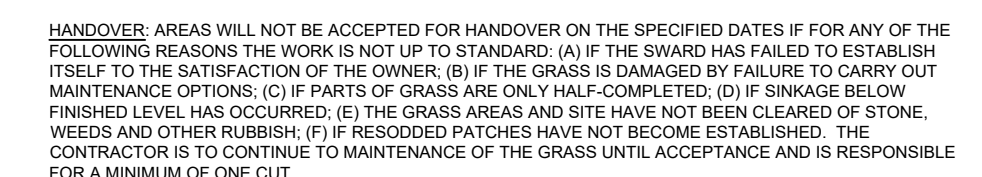
1180 LAKESHORE RD W, MISSISSAUGA, ON. L5H 3G7

Sheet Title

LANDSCAPE PLAN

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

L-L1



L-D1

<div>Cellucci+Pace</div> <div>510 Rowntree Dairy Rd. Unit 3C Woodbridge, ON Canada L4L 8H2 Tel. 416 855 2260 www.cplusp.ca</div>	
Name of Project: Jack Darling Memorial Park - New Comfort Station	
Location: 1180 Lakeshore Road West - 1 Waterfront Trail, Mississauga, ON, L5H 1A1	
Item	
Ontario Building Code 2024	
Data Matrix Parts 3 or 9	
1	Project Description: <div><div><div><input checked="" type="checkbox"/> New</div><div><input checked="" type="checkbox"/> Part 11</div></div><div><div><input type="checkbox"/> Addition</div><div><input type="checkbox"/> Alteration</div></div><div><div><input type="checkbox"/> Change of Use</div></div></div> <div>11.1 to 11.4</div> <div>1.1.2 [A]</div> <div>1.1.2 [A] & 9.10.1.3.</div>
2	Major Occupancy(s) Group A Division 2 <div>3.1.2.1.(1)</div> <div>9.10.2.</div>
3	Building Area (m²) Existing N/A New 97.4 Total 97.4 <div>1.4.1.2 [A]</div> <div>1.4.1.2 [A]</div>
4	Gross Area Existing N/A New 97.4 Total 97.4 <div>1.4.1.2 [A]</div> <div>1.4.1.2 [A]</div>
5	Number of Storeys Above grade 1 Below grade 0 <div>1.4.1.2 [A]&3.2.1.1.</div> <div>1.4.1.2[A] & 9.10.4</div>
6	Number of Streets/Fire Fighter Access 1 <div>3.2.2.10. & 3.2.5.</div> <div>9.10.20.</div>
7	Building Classification 3.2.2.28 Group A, Division 2, 1 Storey <div>3.2.2.20.-.83</div> <div>9.10.2.</div>
8	Sprinkler System Proposed <div><input type="checkbox"/> entire building</div> <div><input type="checkbox"/> selected compartments</div> <div><input type="checkbox"/> selected floor areas</div> <div><input type="checkbox"/> basement in lieu of roof rating</div> <div><input checked="" type="checkbox"/> not required</div> <div>3.2.2.20.-.83</div> <div>3.2.1.5.</div> <div>3.2.2.17.</div> <div>INDEX</div> <div>9.10.8.2.</div> <div>INDEX</div>
9	Standpipe required <div><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div> <div>3.2.9.</div> <div>N/A</div>
10	Fire Alarm required <div><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div> <div>3.2.4.</div> <div>9.10.18.</div>
11	Water Service/Supply is Adequate <div><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</div> <div>3.2.5.7.</div> <div>N/A</div>
12	High Building <div><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div> <div>3.2.6.</div> <div>N/A</div>
13	Construction Restrictions <div><input type="checkbox"/> Combustible permitted</div> <div><input checked="" type="checkbox"/> Non-combustible required</div> <div><input type="checkbox"/> Both required</div> <div>3.2.2.20.-.83</div> <div>9.10.6.</div>
14	Actual Construction <div><input type="checkbox"/> Combustible</div> <div><input checked="" type="checkbox"/> Non-combustible</div> <div><input type="checkbox"/> Both</div> <div>3.2.2.20.-.83</div> <div>9.10.6.</div>
14	Mezzanine(s) Area m² <div>3.2.1.1.(3)&(8)</div> <div>9.10.4.1.</div>
15	Occupant load based on <input checked="" type="checkbox"/> m²/person <input type="checkbox"/> design of building <div>3.1.17.</div> <div>9.9.1.3.</div>
16	Barrier-free Design <div><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain)</div> <div>3.8.</div> <div>9.5.2.</div>
17	Hazardous Substances <div><input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div> <div>3.3.1.2. & 3.3.1.19.</div> <div>9.10.1.3(4)</div>

18	Required Fire Resistance Rating (FRR)	Horizontal Assemblies	Listed Design No. or Description (SG 7)	3.2.2.20. 3 & 3.2.1.4	9.10.8. & 9.10.9.
		Floors	N/A Hours		
		Roof	N/A Hours		
		Mezzanine	N/A Hours		
		FRR of Supporting Members	Listed Design No. Or Description (SG 7)		
		Floors	Hours		
		Roof	Hours		
		Mezzanine	Hours		

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. Constr.	Nonc. Cladding	Non Comb. Constr.
	North	N/A	THIS WALL EXCEEDS THE MAXIMUM LIMITING DISTANCE								
	South	N/A	THIS WALL EXCEEDS THE MAXIMUM LIMITING DISTANCE								
	East	N/A	THIS WALL EXCEEDS THE MAXIMUM LIMITING DISTANCE								
	West	N/A	THIS WALL EXCEEDS THE MAXIMUM LIMITING DISTANCE								

20	Plumbing Fixture Requirements	Building Code Reference
	Male/Female Count	Part 3 ? Part 4
	Base units	
	Occupancy	
	1st Floor: Occupancy	
	2nd Floor: Occupancy	
	3rd Floor: Occupancy	
	(Adjust as Required for Additional Floors or Occupancies)	
21	Other (describe)	

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

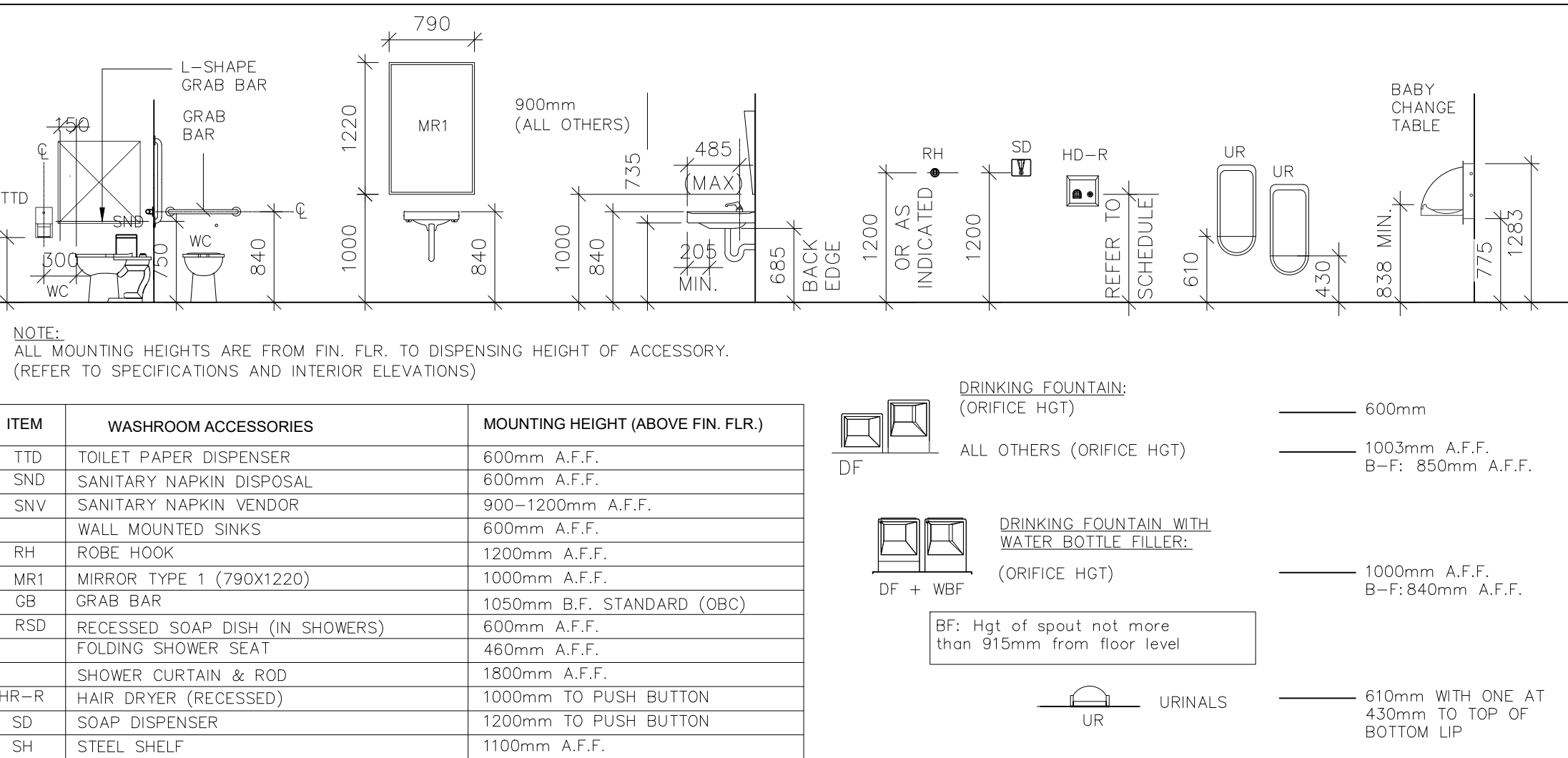
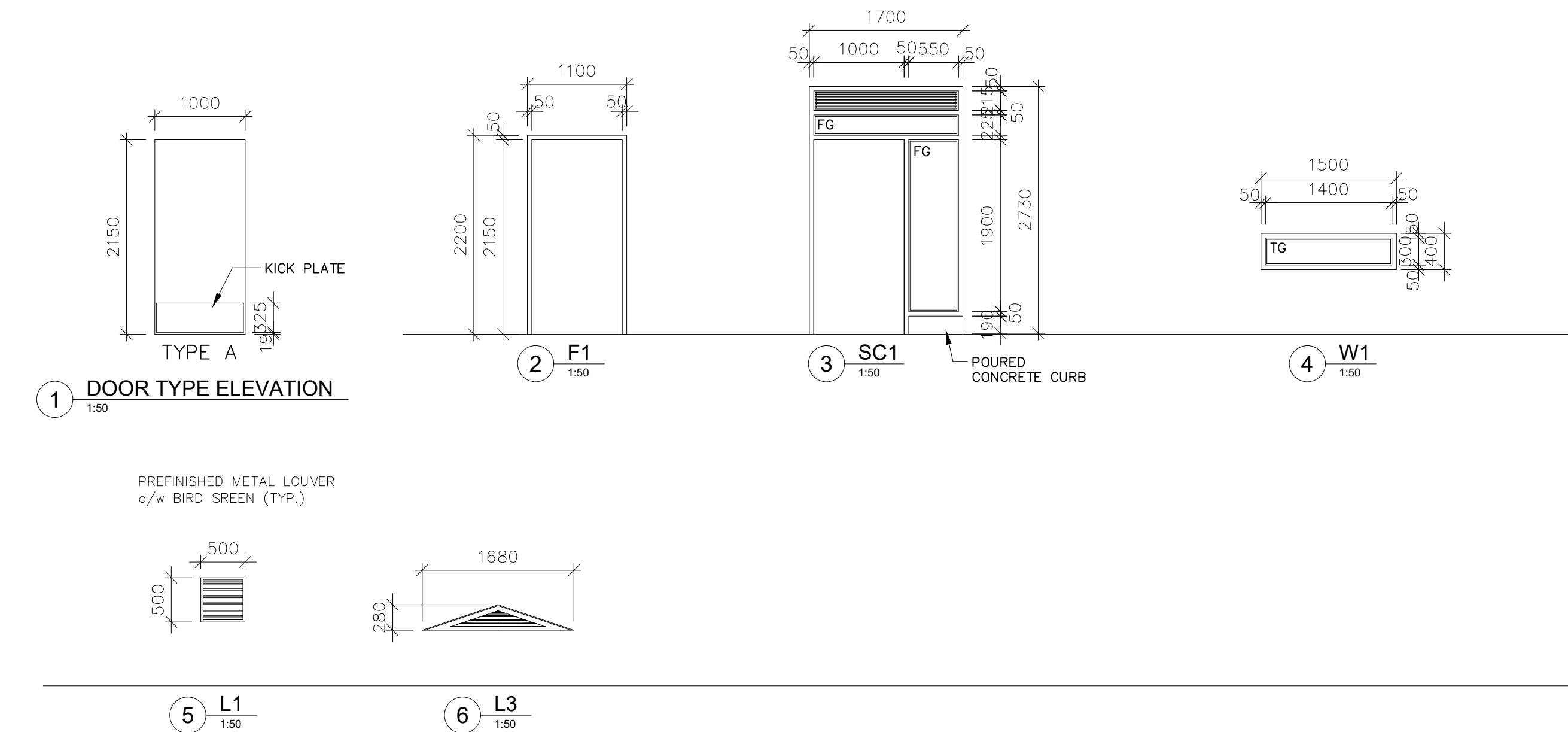
- OBC NOTES:
- THIS OBC PART 3 CODE MATRIX APPLIES TO NEW CONSTRUCTION
 - OCCUPANT LOAD IS BASED ON 9 PERSONS: 4.6m² / PERSON = 41.4m²

- GENERAL NOTES:
- 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		
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	-	F1		1100	2200	146	HM	PT	-			FILL FRAMES SOLID W/ MORTAR, WEATHERSTRIPPING, THRESHOLD		
104	1A	1000	2150	HM	PT	-	SC1		1700	2730	146	HM	PT	FG			HTD, FILL FRAMES SOLID W/ MORTAR, WEATHERSTRIPPING, THRESHOLD, BARRIER FREE DOOR OPERATOR		

Interior HM Window Schedule											
Window Number	Frame Width	Frame Height	Frame Depth	Frame Elevation Type	Fire Rating	Frame Material Type	Frame Finish Type	Glass Type (Screen)	Jamb	Head	Comments
101	1500	400		W1		HM	PT	TG			
TO FIN. GROUND FLOOR SLAB											

Room Finish Schedule											
Number	Name	Floor Finish	Wall Base	Wall Material	Wall Finish	Ceiling Height	Ceiling Type	Ceiling Finish			Comments
101	MALE WASHROOM	SEALED	R	CB	PT	2550	EXP	-			
102	UNIVERSAL WASHROOM	SEALED	R	CB	PT	2550	EXP	-			
103	UTILITIES	SEALED	R	CB	PT	2550	EXP	-			
104	FEMALE WASHROOM	SEALED	R	CB	PT	2550	EXP	-			



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.
WALL	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)
RSD	RECESSED SOAP DISH (IN SHOWERS)	600mm A.F.F.
FOLDING	FOLDING SHOWER SEAT	460mm A.F.F.
SHOWER	SHOWER CURTAIN & ROD	1800mm A.F.F.
HR-R	HAIR DRYER (RECESSED)	1000mm TO PUSH BUTTON
SD	SOAP DISPENSER	1200mm TO PUSH BUTTON
SH	STEEL SHELF	1100mm A.F.F.

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
BFDO	BARRIER-FREE DOOR OPERATOR
BR	BRICK
CONC	CONCRETE
CB	CONCRETE BLOCK
CJ	MASONRY CONTROL JOINT
CP	CONTROL PANEL
CT	CERAMIC TILE
DF-WB/F	DRINKING FOUNTAIN+BOTTLE FILLER
EF	EPOXY FLOORING
EP	ELECTRICAL POWER PANEL
EXP	EXPOSED STRUCTURE
EXT	EXTERIOR
GB	GYPSSUM 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
MP	METAL PANEL
MIRROR	MIRROR
PCS	PRECAST CONCRETE SILL
PLAM	PLASTIC LAMINATE
PMF	PREFINISHED METAL CLADDING
PMF	PREFINISHED METAL FLASHING
PSS	PAINTED STRUCTURAL STEEL
PNT	PANT
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
TG	TEMPERED GLAZING
TTD	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	
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 FLOOR 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	
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.
0 HR	INDICATES 0HR. FIRE SEPARATION
INDICATES MIN. 30 MIN. FIRE SEPARATION	
INDICATES MIN. 1HR. CONCRETE BLOCK FIRE SEPARATION UNLESS NOTED OTHERWISE	
25	OCCUPANT LOAD
EXIT CAPACITY = 280	SUM OF THE TOTAL ALLOWABLE EXIT CAPACITY BASED ON THE EXIT WIDTH
PATH OF TRAVEL TO DETERMINE EXIT CAPACITY.	
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: (a) STEEL LINTELS ABOVE OPENING NOT MORE THAN 2m WIDE IN LOADBEARING WALLS AND NOT MORE THAN 3m WIDE IN NON-LOADBEARING WALLS. (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. (c) THE BOTTOM FLANGES OF SHELF ANGLES AND PLATES THAT ARE NOT PART OF THE STRUCTURAL FRAME. (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 (e) STEEL MEMBERS OF STAIRWAYS AND ESCALATORS THAT ARE NOT PART OF THE STRUCTURAL FRAME OF A BUILDING.	

SYMBOL LEGEND	
104 F1	DOOR NUMBER AND FRAME ELEVATION TYPE (SEE DOOR SCHEDULE)
13	EXTERIOR WINDOW REFERENCE
14	INTERIOR ELEVATION REFERENCE
12 13 14 15	REFERENCE NUMBER SHEET NUMBER
MATERIALS LEGEND	
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 #2-4150 TRANQUILITY
SP-3	SPANDREL PANEL 3 BACKPAINTED GLASS #2-4150 TRANQUILITY
VP	VISION PANEL (CLEAR GLAZING)
ROOF TYPES	
R1	ROOF TYPE - R1 FROM TOP TO BOTTOM: - PREFINISHED STANDING SEAM STEEL ROOFING, BY VICWEST - 19mm EXTERIOR PLYWOOD SHEATHING - 2 LAYERS - 50mm RIGID POLYISO ROOF INSULATION - SELF ADHESIVE AIRVAPOUR BARRIER (REFER TO SPECS) - 19mm EXTERIOR PLYWOOD SHEATHING - 38mm STRUCTURAL STEEL DECK ON STEEL ROOF STRUCTURE (REFER TO STRUCT. DWGS.)
EXTERIOR FINISHES	
B1	CLAY BRICK 90D x 57H x 290L COLOUR: DUNKERRON SMOOTH IRONSPOT MERIDIAN
AB1	ARCHITECTURAL BLOCK AB1-a: 90D x 390H x 590L AB1-b: 90D x 190H x 590L COLOUR: DOVER FINISH: TAPESTRY SHOULDRICE
AB2	ARCHITECTURAL BLOCK 90D x 190H x 390L COLOUR: CRIMSON RED FINISH: POLISHED FACE DAY & CAMPBELL
PMS-1	PREFINISHED METAL SIDING HORIZONTAL METAL SIDING COLOUR: STONE GREY VICWEST
PMF	PREFINISHED METAL FLASHING COLOUR: DARK BROWN
P1	PAINT 1 ORANGE COLOUR PAINT
P2	PAINT 2 DARK BLUE COLOUR PAINT
PCC	PRECAST CONCRETE CAP
PCS-1	PRECAST CONCRETE SILL BELOW WINDOWS
FCP	SOFFIT PANEL PERFORATED FIBRE CEMENT PANEL COLOUR:SWEET PEA (GREEN) AKTAR
PMC	METAL SOFFIT PREFINISHED METAL CLADDING ESPRESSO MATTE VICWEST

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REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1	2024-11-18	ISSUED FOR 60% REVIEW & COSTING
2	2024-12-06	ISSUED FOR BUILDING PERMIT
3	2025-10-03	RE-ISSUED FOR BUILDING PERMIT
4	2025-10-09	ISSUED FOR TENDER

PROJECT NORTH TRUE NORTH

Cellucci+Pace
ARCHITECTURE | PLANNING | PROJECT MANAGEMENT

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

Project Title

MISSISSAUGA

COMFORT STATION
JACK DARLING
MEMORIAL PARK

1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

Sheet Title

OBC MATRIX, LEGENDS
& ABBREVIATIONS

Project Number 24-053

Date Oct. 2024

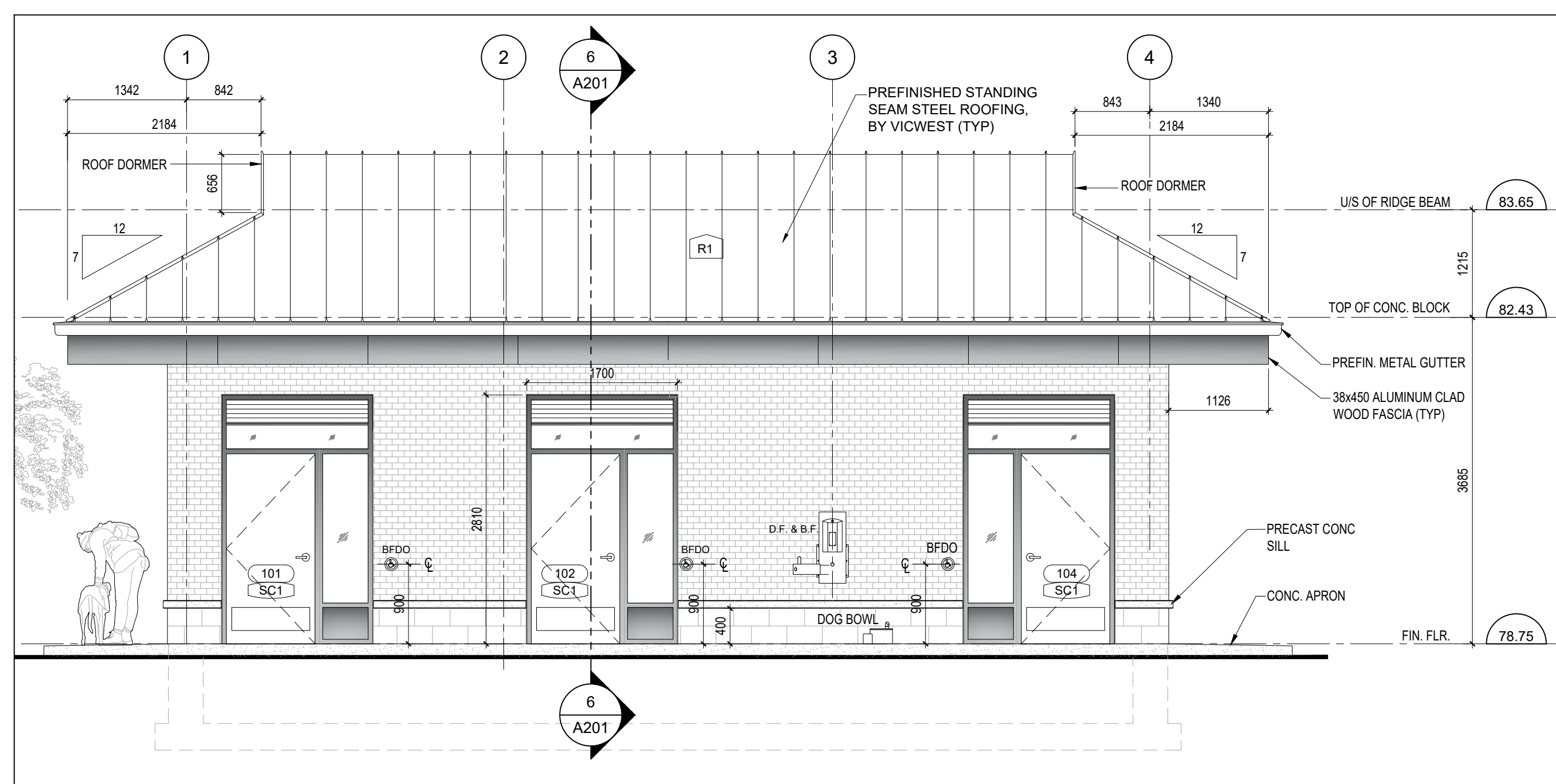
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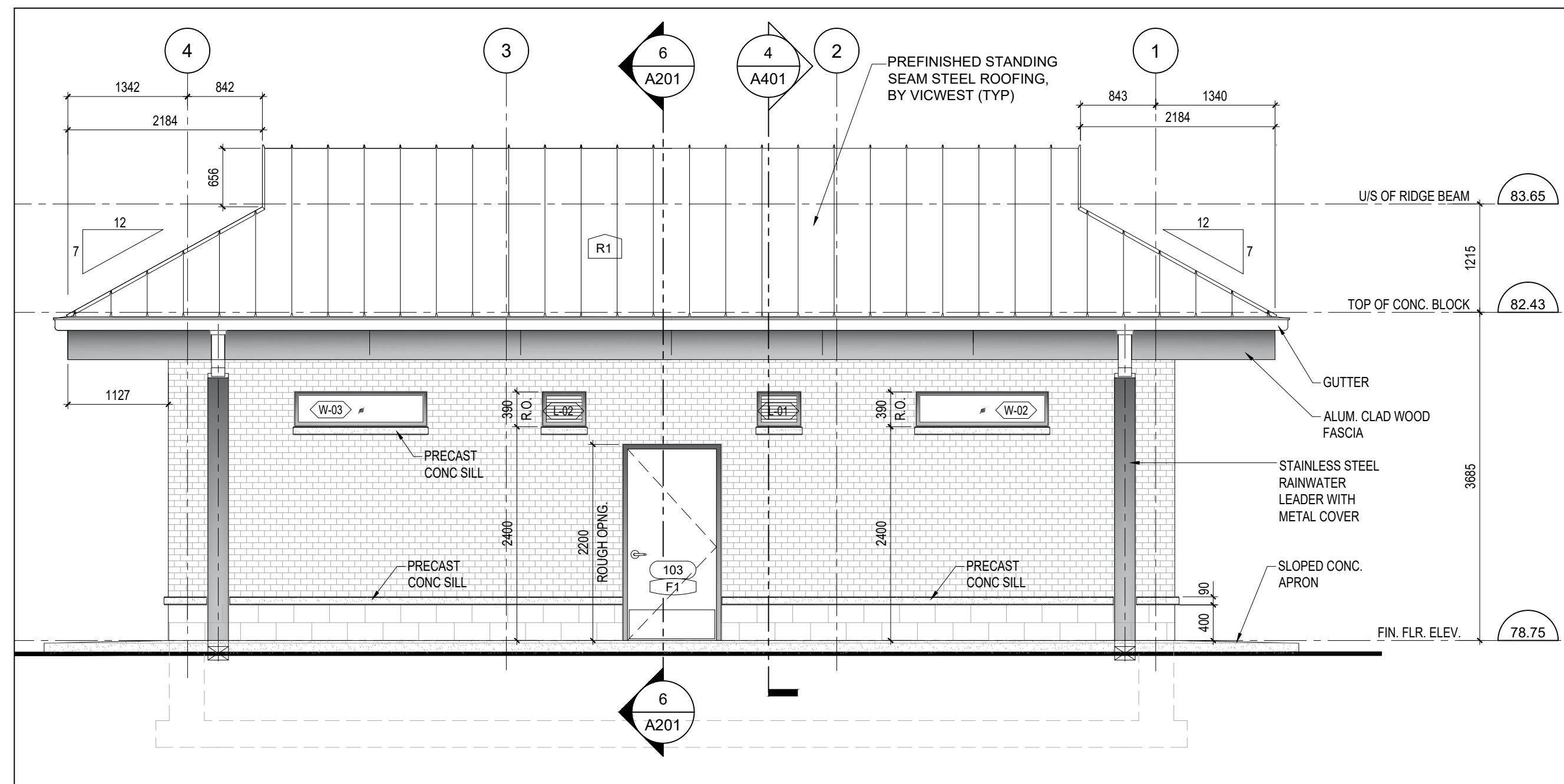
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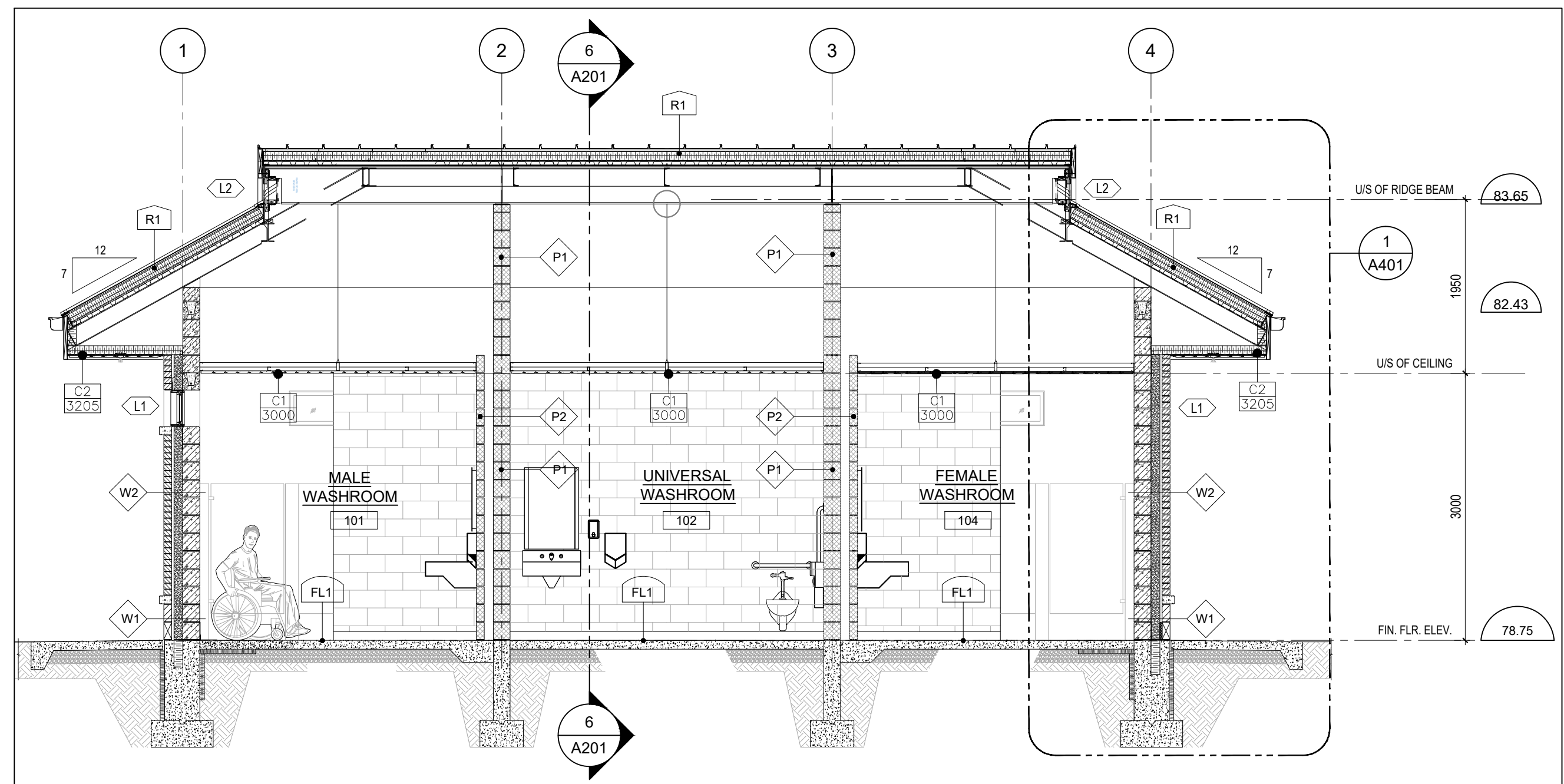
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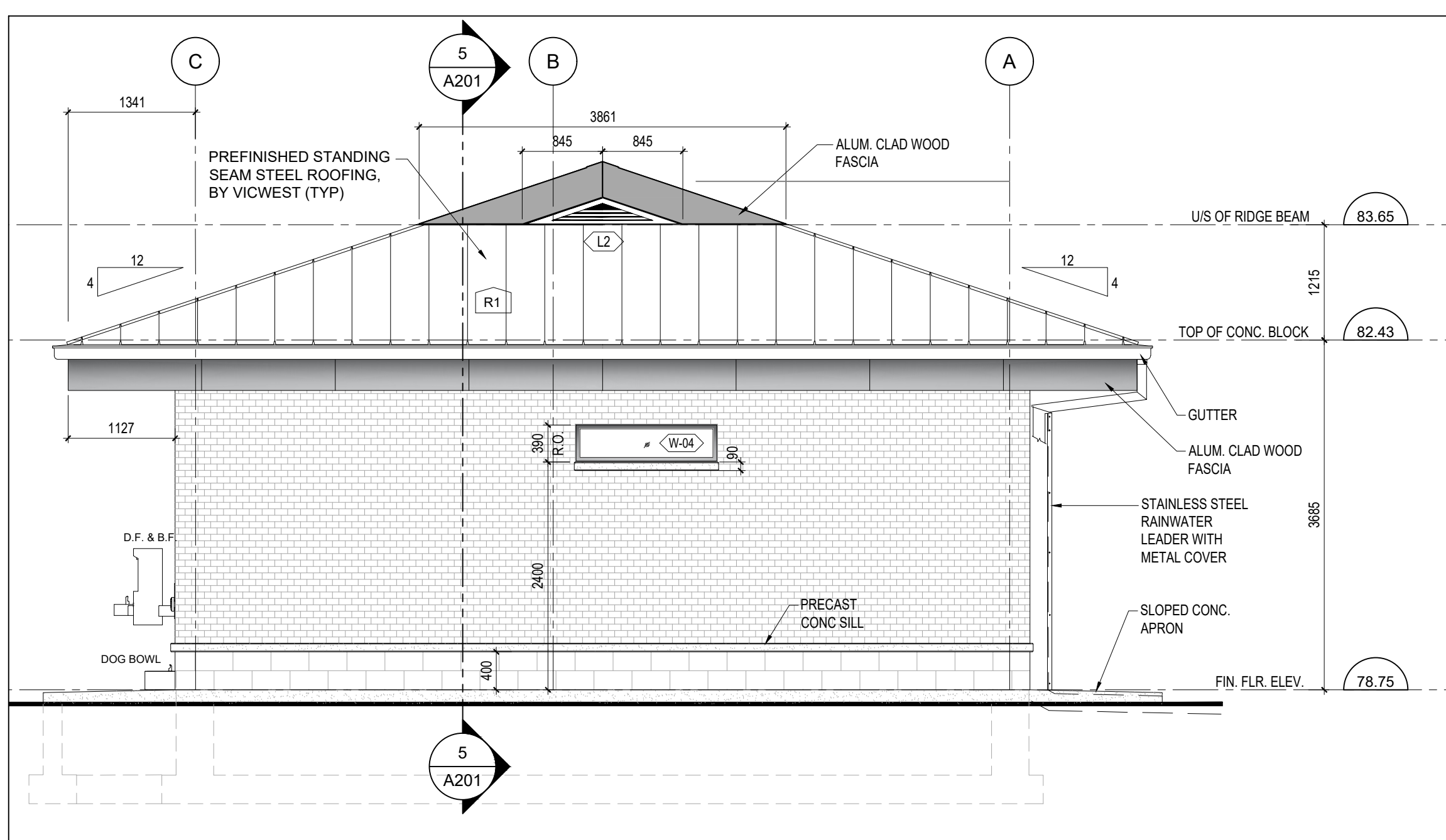
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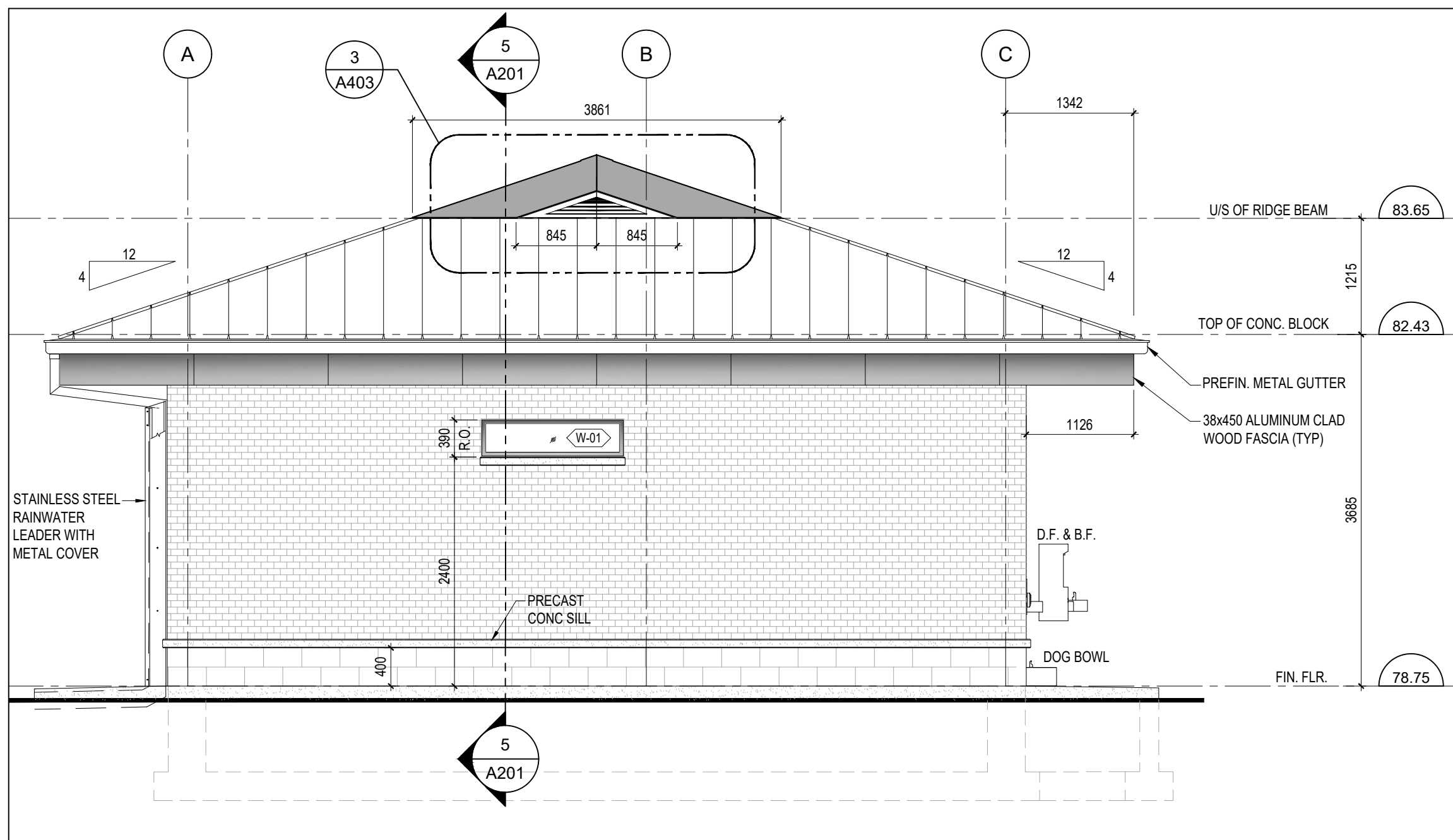
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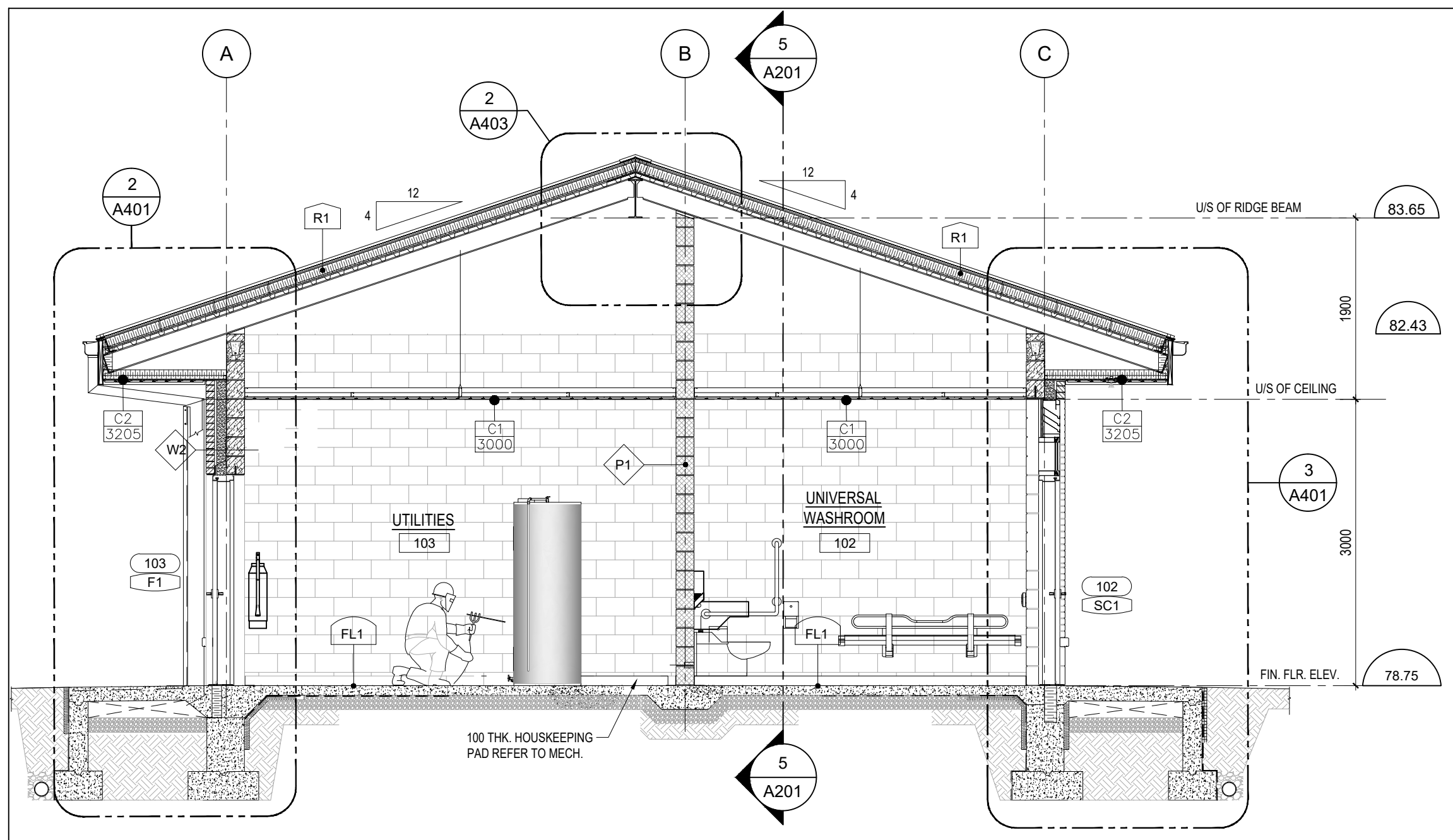
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SCALE 1:50



2 EAST ELEVATION
SCALE 1:50



4 WEST ELEVATION
SCALE 1:50



6 BUILDING CROSS SECTION
SCALE 1:50

EXTERIOR WALL TYPES		
W1	EXTERIOR WALL CONSTRUCTION: (405mm)	
	<ul style="list-style-type: none">- SPLIT FACE ARCHITECTURAL BLOCK 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)	
	<ul style="list-style-type: none">- CLAY BRICK 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)- SELF ADHESIVE SHEET MEMBRANE AIR/VAPOUR BARRIER AT TRANSITIONS AND BETWEEN ALL DISSIMILAR MATERIALS- 190mm CONCRETE BLOCK BACK-UP	
WALL TYPE TYPICAL NOTES:		
<ul style="list-style-type: none">1. REFER TO PLANS AND ELEVATIONS2. ALL VOIDS AND CAVITIES		
INTERIOR WALL TYPES		
P1	INTERIOR CONCRETE BLOCK PARTITION WALL 190mm CONC. BLOCK	
P2	INTERIOR CONCRETE BLOCK PARTITION WALL 90mm CONC. BLOCK	
CEILING TYPES		
C1	INTERIOR CEILING	
	BELLARA MOUNTAIN CEDAR BY VICWEST ON 22mm FURRING CHANNELS ON METAL FRAMING SYSTEM @ 1200mm (MAX.) BRACED TO UNDERSIDE OF STEEL ROOF STRUCTURE	
C2	EXTERIOR METAL CANOPY SOFFIT & FASCIA (PMS-1) BELLARA MOUNTAIN CEDAR BY VICWEST ON 12mm EXTERIOR GRADE PLY ON 2 LAYERS - 50mm RIGID POLYISO ROOF INSULATION SELF ADHESIVE AIR/VAPOUR BARRIER (REFER TO SPECS) 92mm METAL STUDS @ 400 O.C. BRACED TO UNDERSIDE OF CANOPY STEEL 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: <ul style="list-style-type: none">- 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.)	
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	
BFDO	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	
MP	METAL PANEL	
MR1	MIRROR	
PCS	PRECAST CONCRETE SILL	
PLAM	PLASTIC LAMINATE	
PMC	PREFINISHED METAL CLADDING	
PMF	PREFINISHED METAL FLASHING	
PSS	PAINTED STRUCTURAL STEEL	
PT	PAINT	
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	
TTD	TOILET TISSUE DISPENSER	
UR	URINAL	
VP	VISION GLAZING (INSULATED ON EXTERIOR)	
WC	WATER CLOSET (TOILET FIXTURE)	
WMS	WALL MOUNTED SINK	
WPF	WATER-PROOFING FLOORING	

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REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1	2024-10-24	ISSUED FOR CLIENT APPROVAL
2	2024-11-20	ISSUED FOR SITE SERVICING PERMIT
3	2024-12-06	ISSUED FOR BUILDING PERMIT
4	2025-09-15	ISSUED FOR COSTING
5	2025-09-18	RE-ISSUED FOR BUILDING PERMIT
6	2025-09-18	RE-ISSUED FOR SITE SERVICING
7	2025-10-03	RE-ISSUED FOR BUILDING PERMIT
8	2025-10-09	ISSUED FOR TENDER

PROJECT NORTH

TRUE NORTH

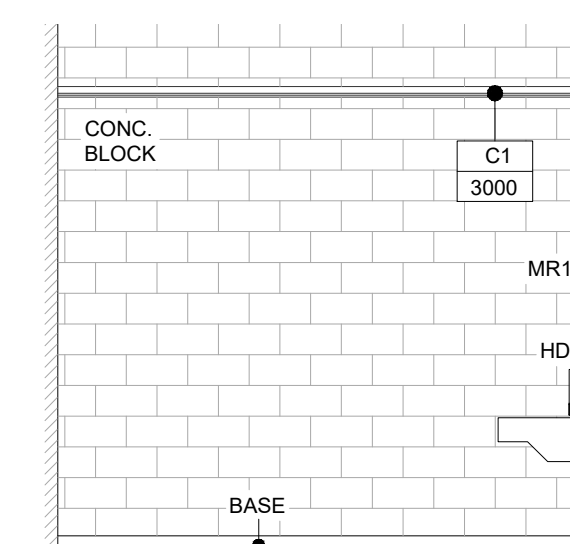
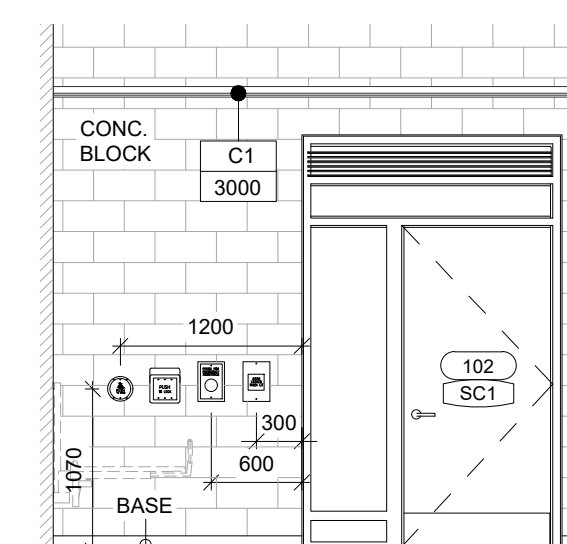
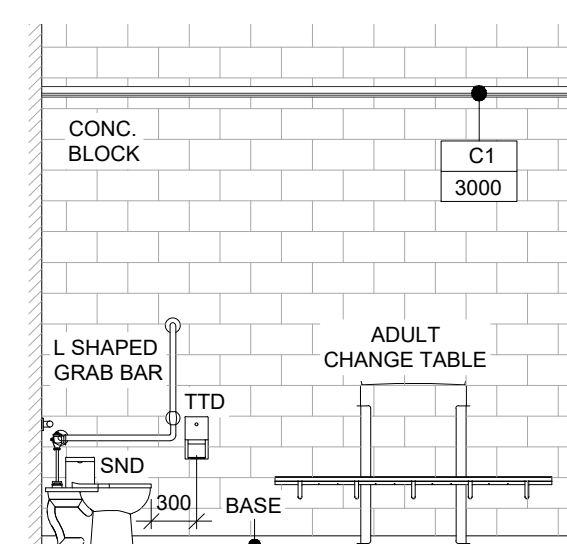
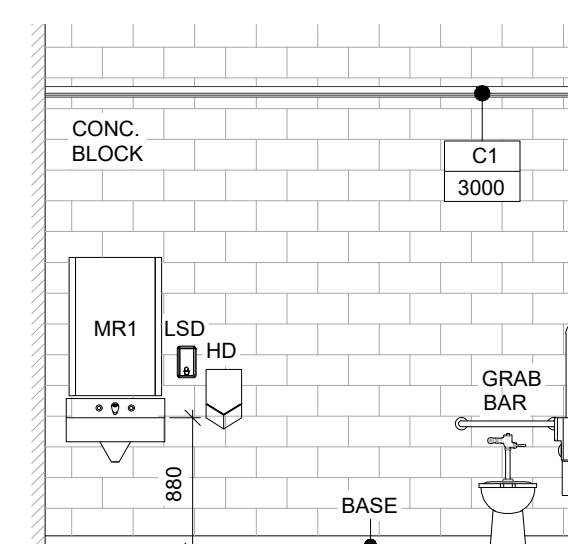
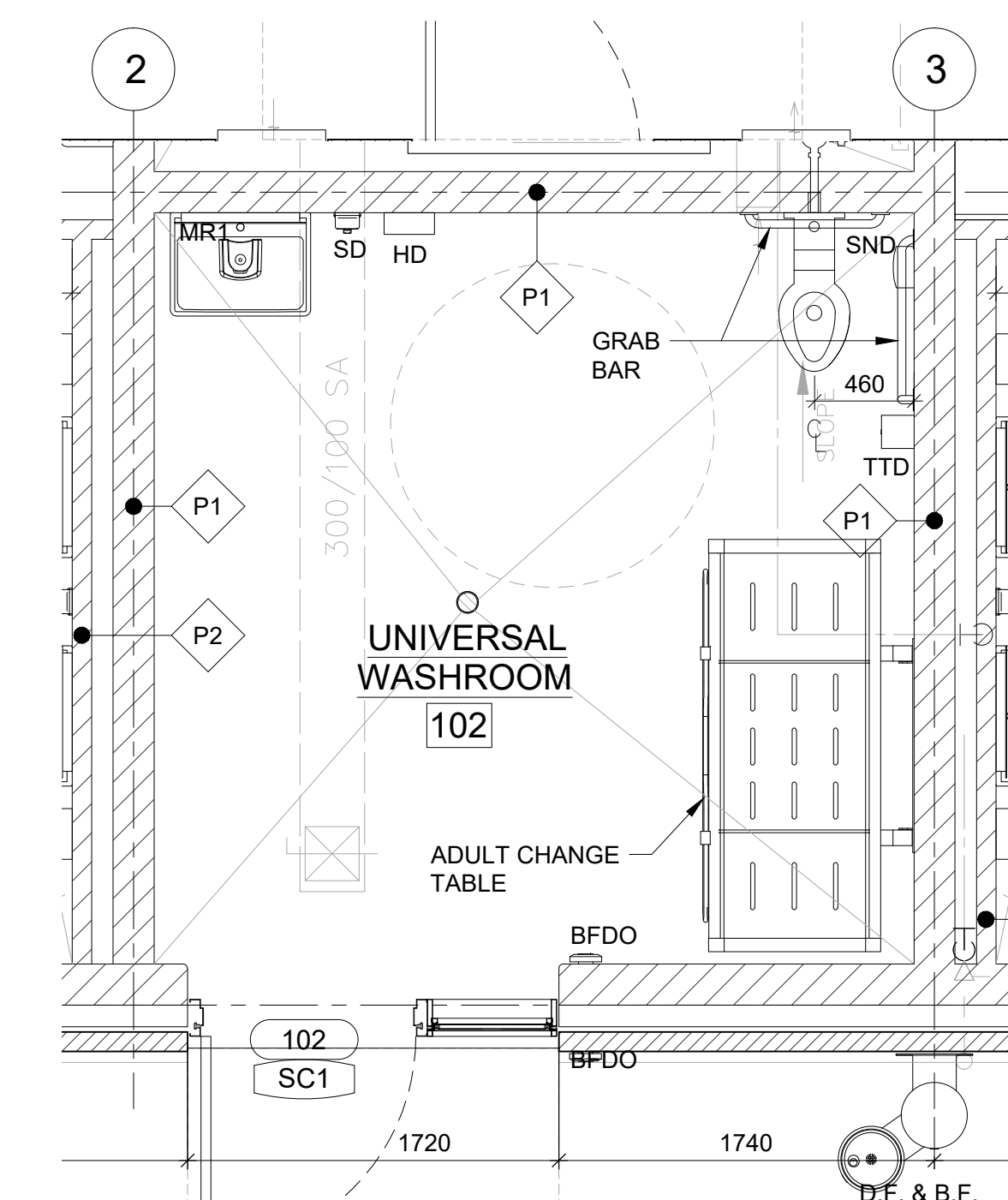
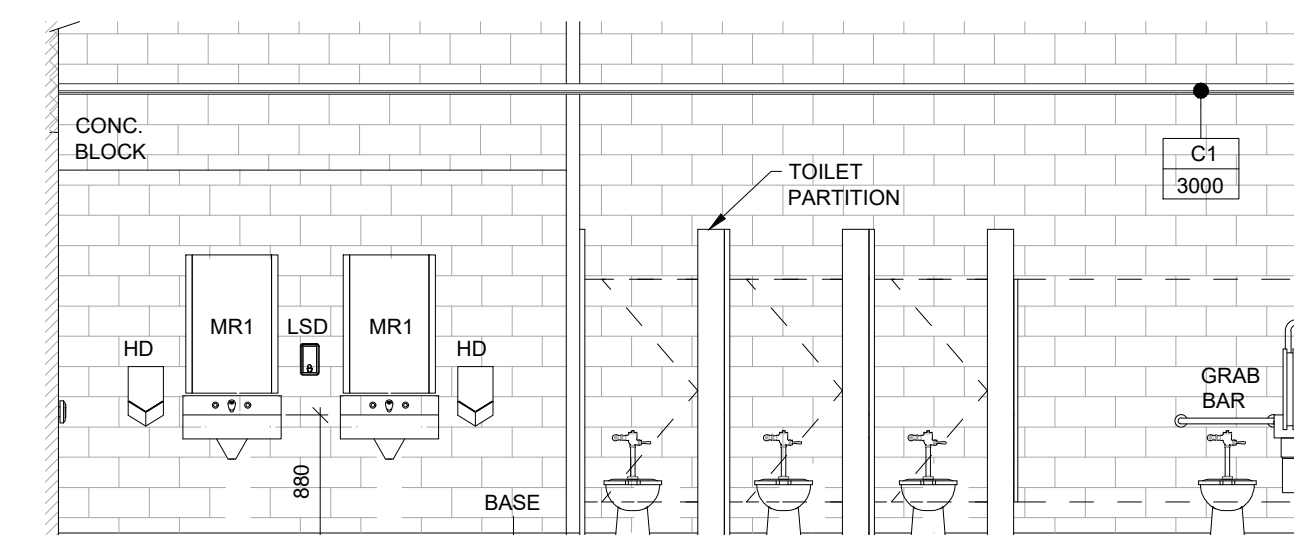
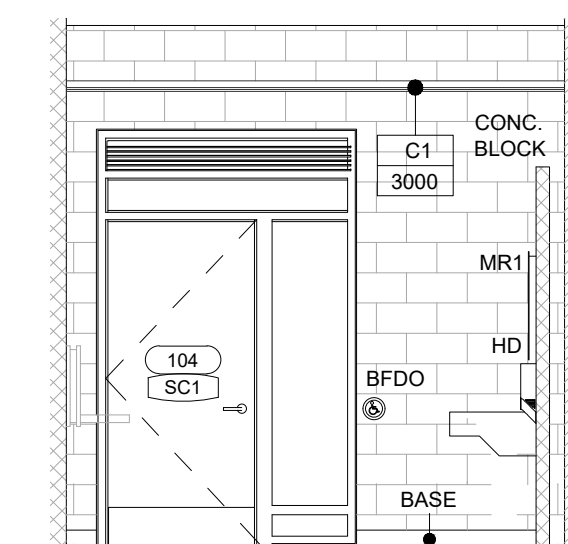
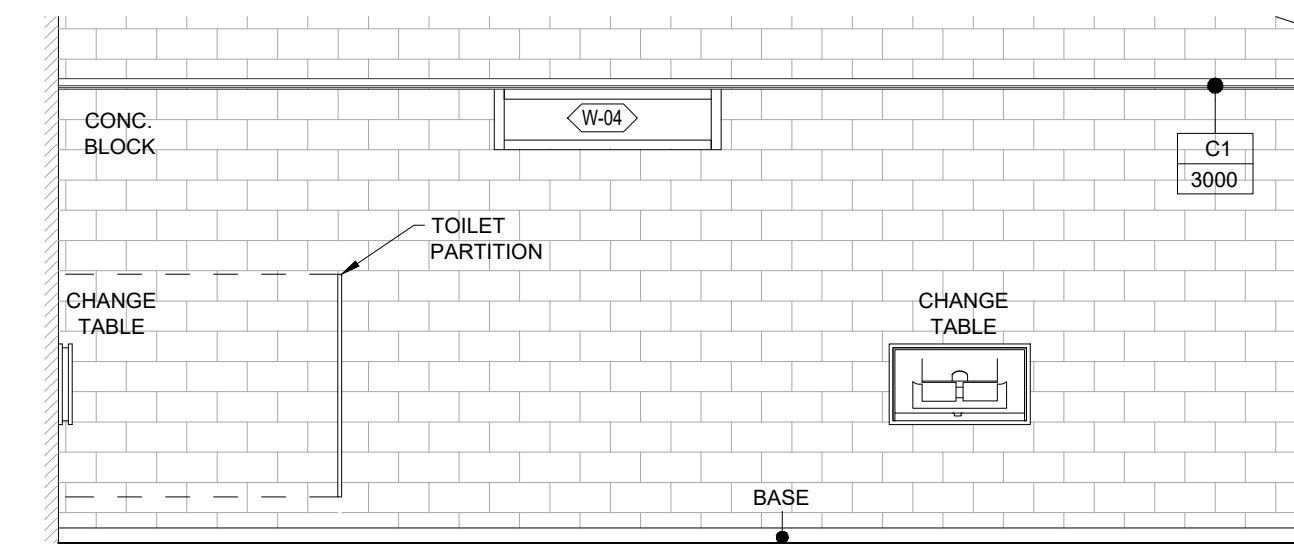
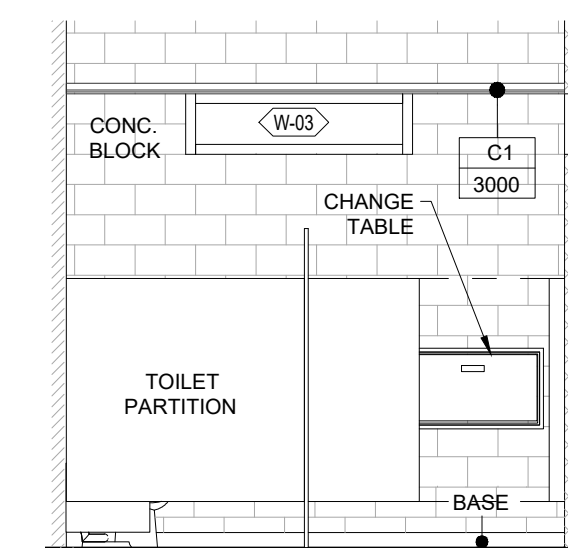
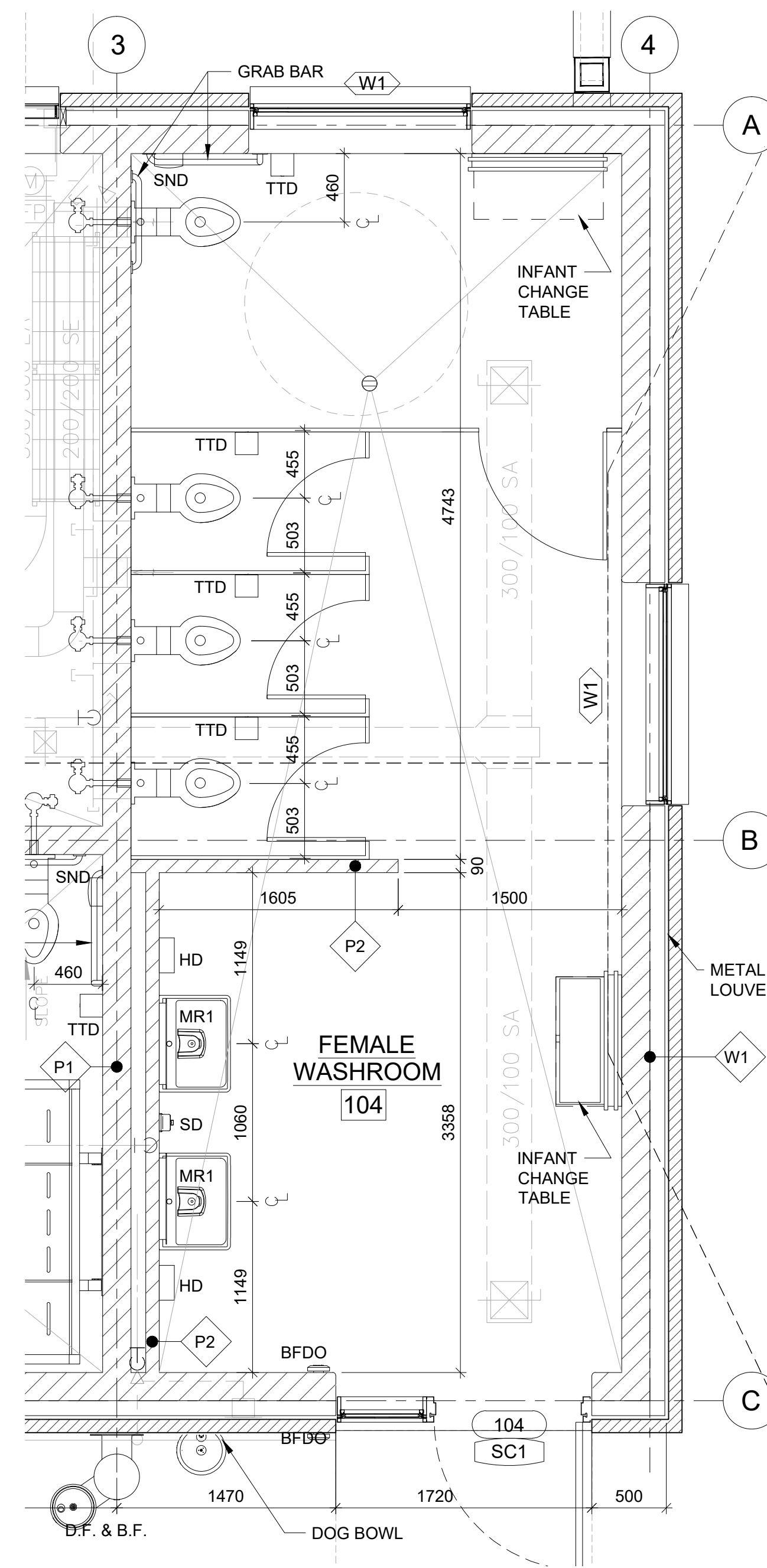
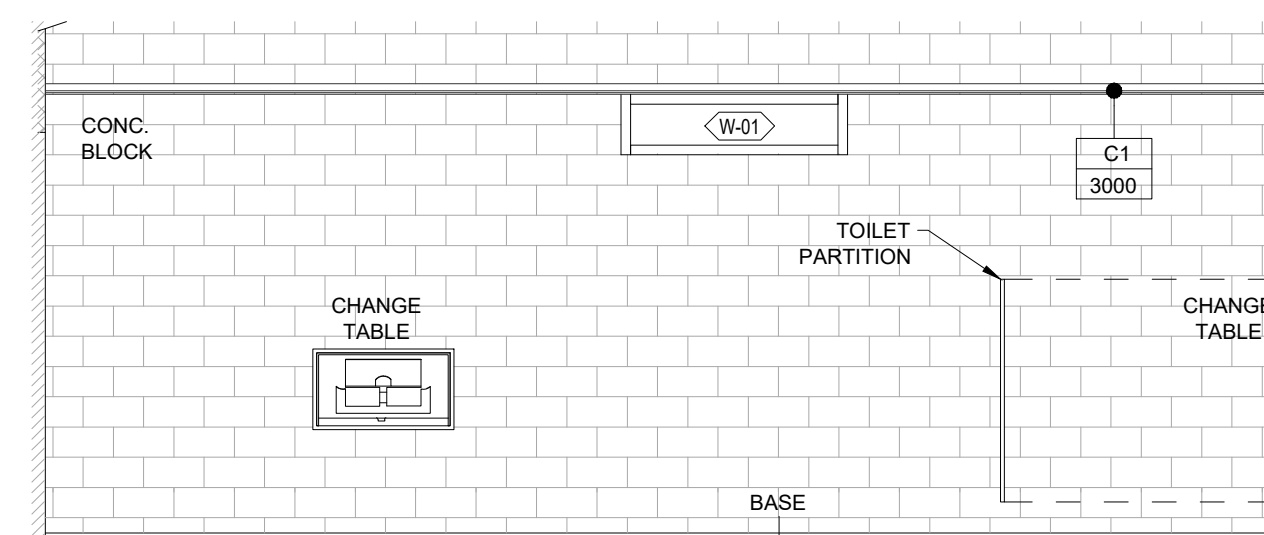
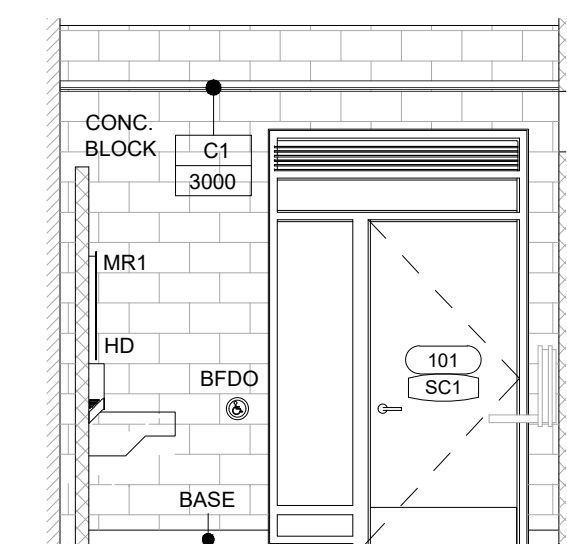
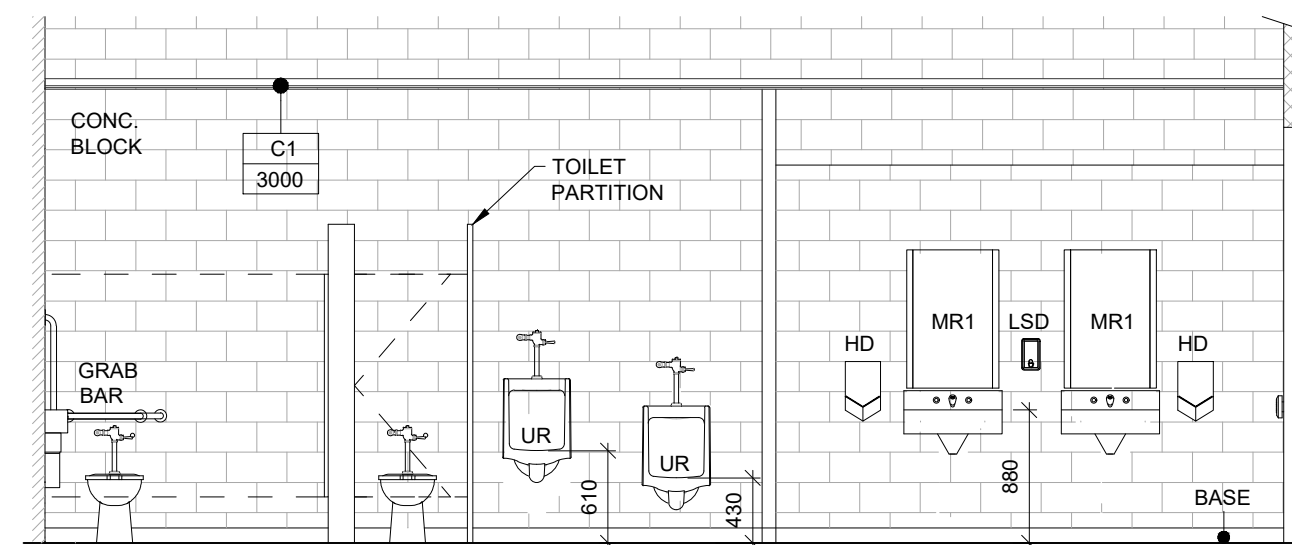
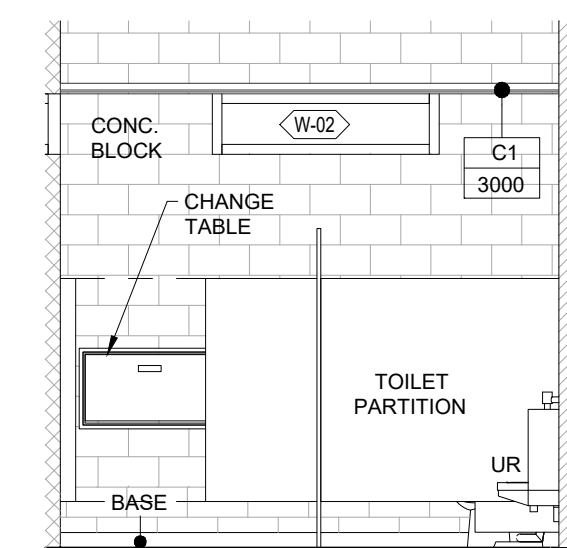
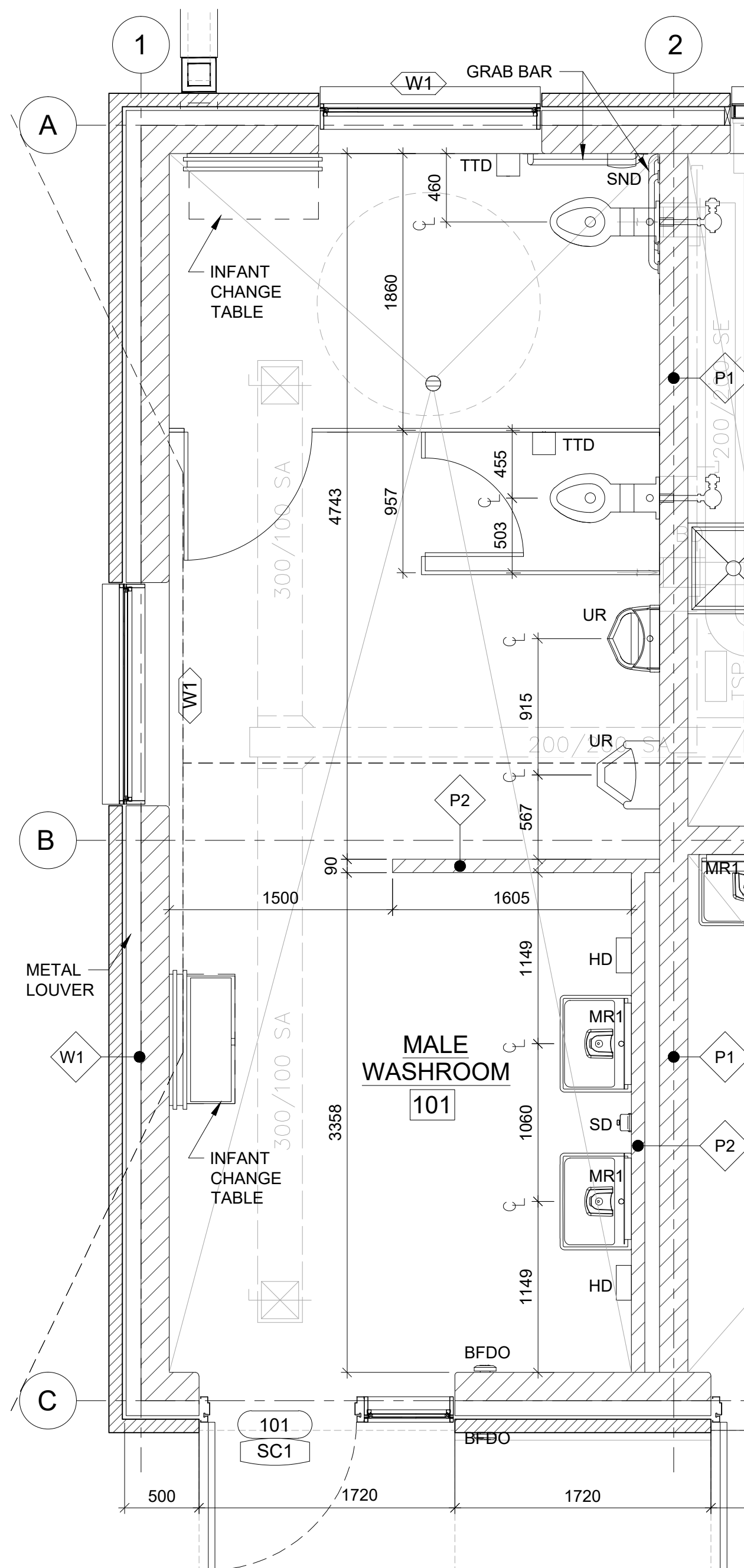
ARCHITECT

Cellucci+Pace
ARCHITECTURE | PLANNING | PROJECT MANAGEMENT

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

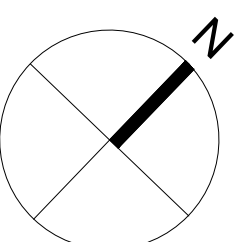
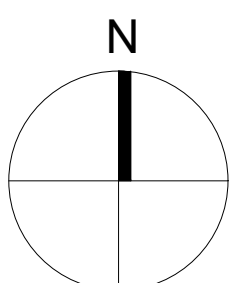
COMFORT STATION JACK DARLING MEMORIAL PARK	
1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7	
Sheet Title	
BUILDING ELEVATIONS & SECTIONS	
Project Title	
Project Number	24-053
Date	Oct. 2024
Drawn	RS / MP
Checked	CC
Scale	1:50
Drawing Number	

A201



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REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1	2024-12-06	ISSUED FOR BUILDING PERMIT
2	2025-10-03	RE-ISSUED FOR BUILDING PERMIT
4	2025-10-09	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

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www.cplusp.ca

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www.cplusp.ca

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

Project Title



COMFORT STATION
JACK DARLING
MEMORIAL PARK

JACK DARLING
MEMORIAL PARK

MEMORIAL PARK

1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

Sheet Title

ENLARGED PLANS & INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

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

A301

REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1	2024-12-06	ISSUED FOR BUILDING PERMIT
2	2025-10-03	RE-ISSUED FOR BUILDING PERMIT
3	2025-10-09	ISSUED FOR TENDER



COMFORT STATION
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1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

Sheet Title

PLAN DETAILS

Project Number	24-053
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Date Oct. 2024

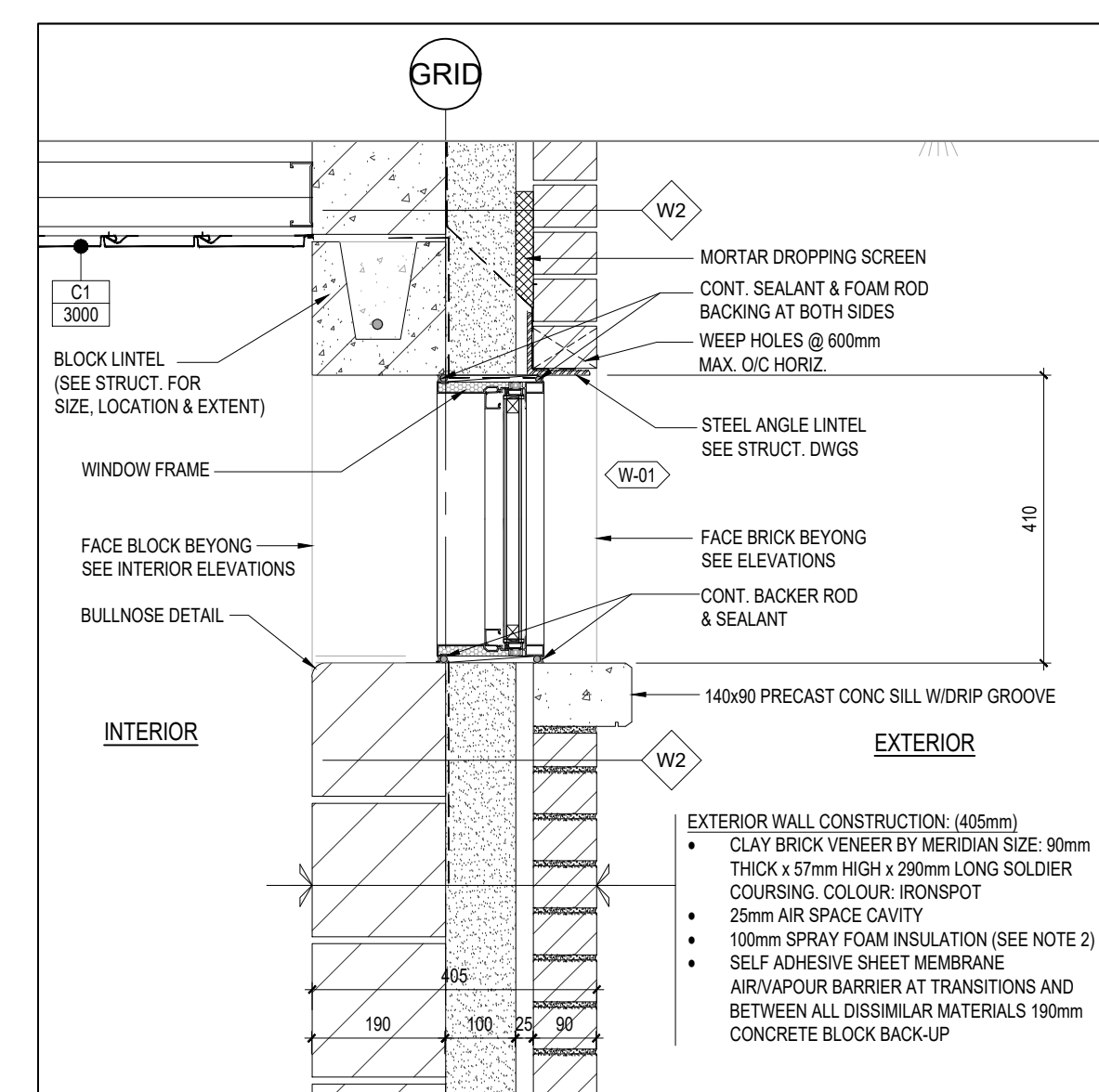
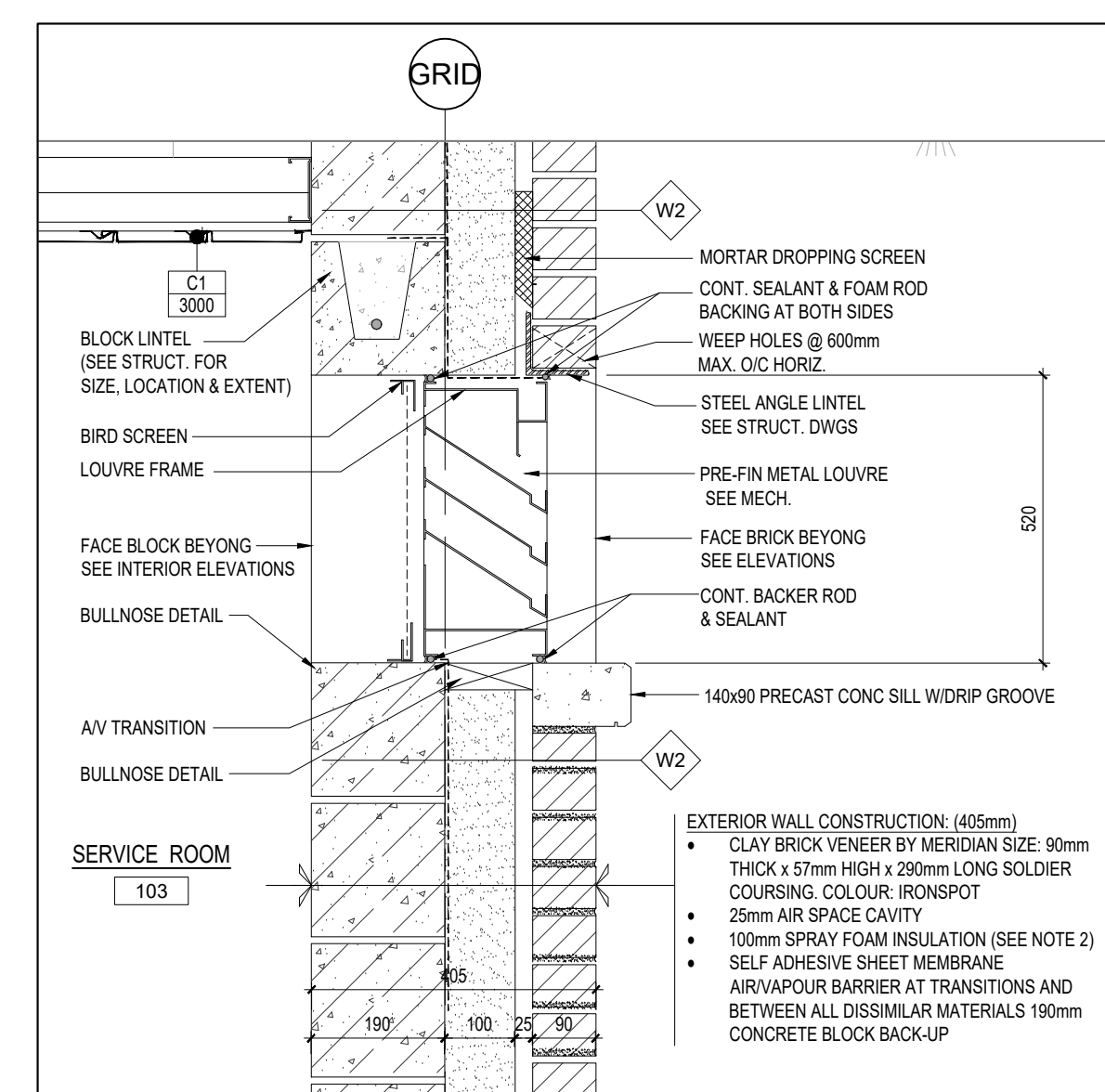
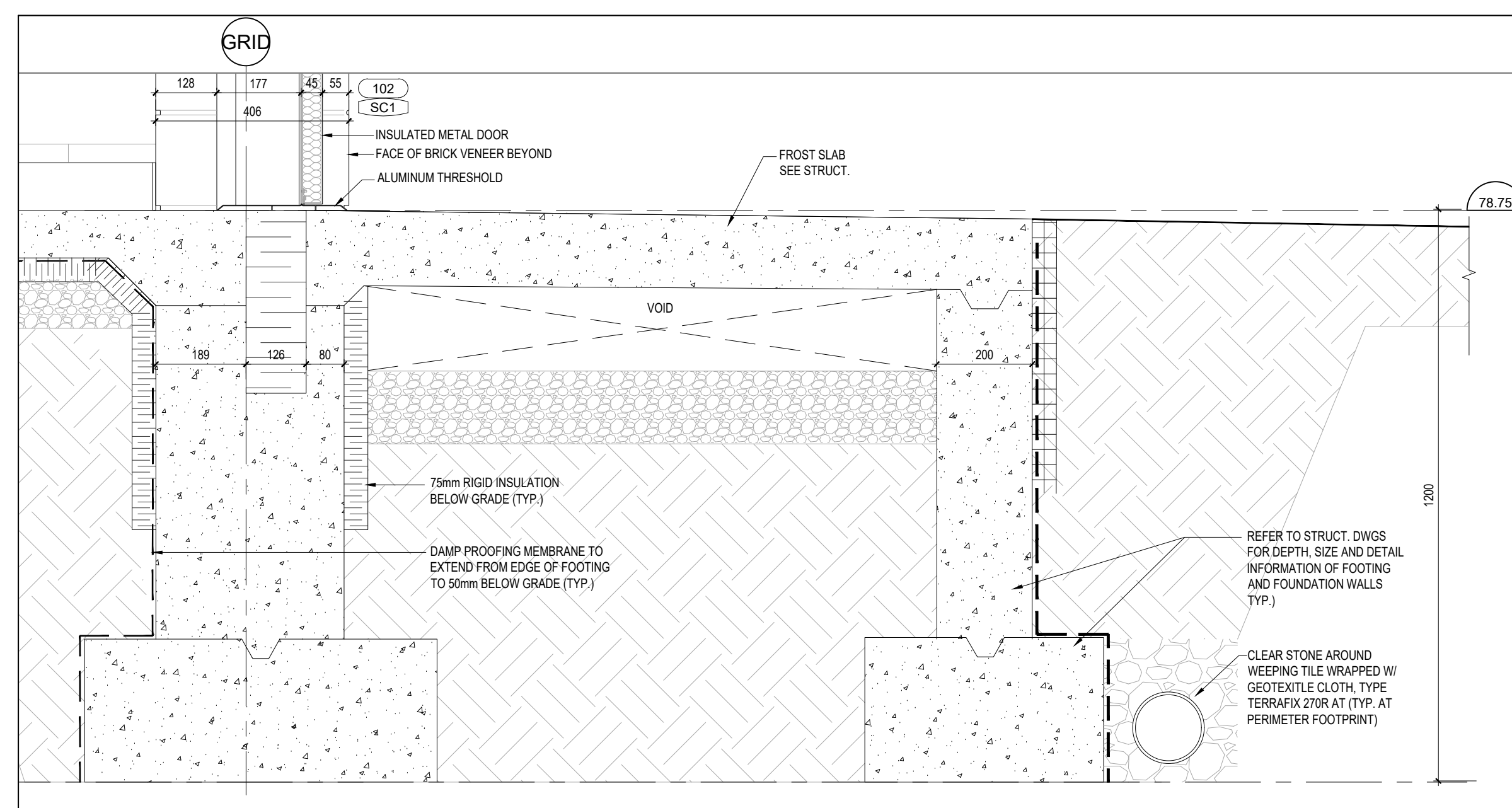
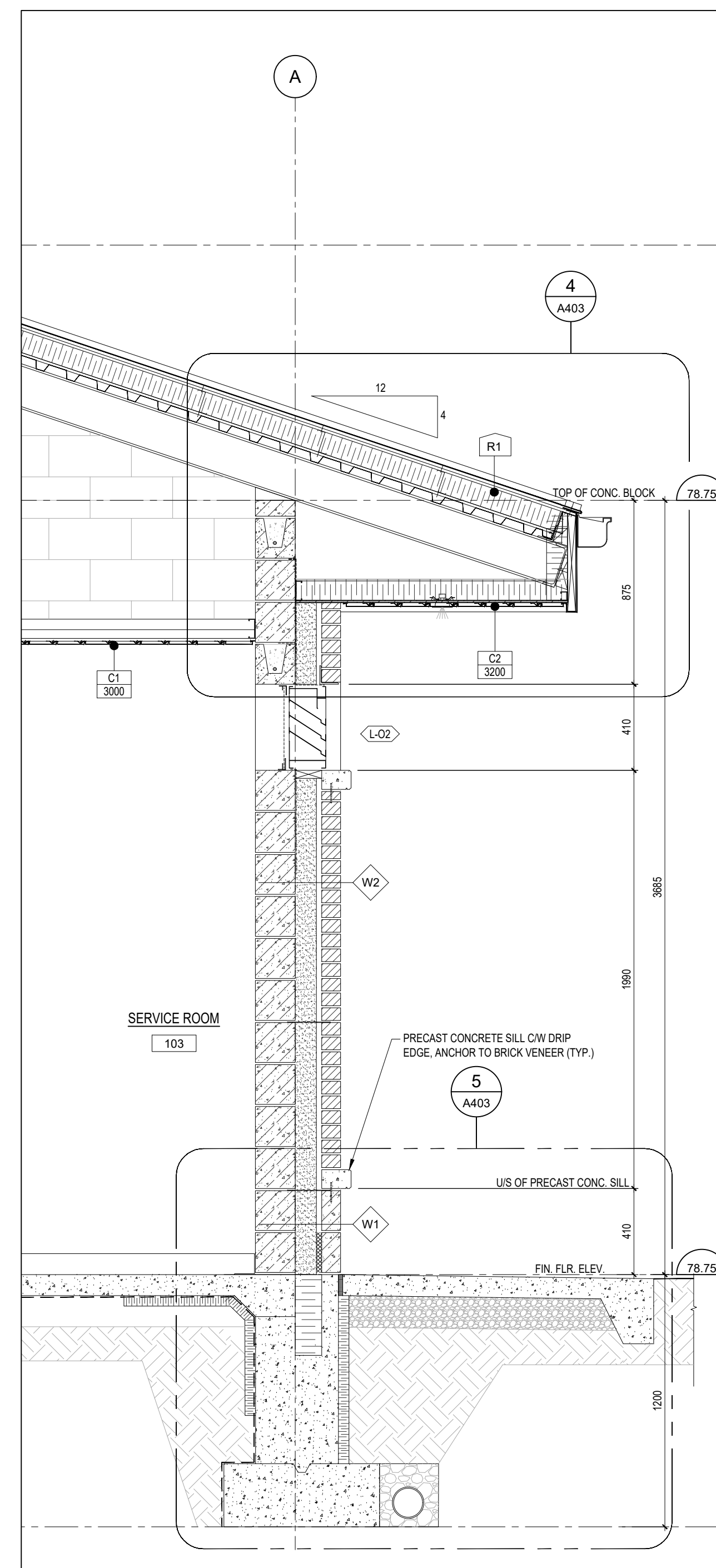
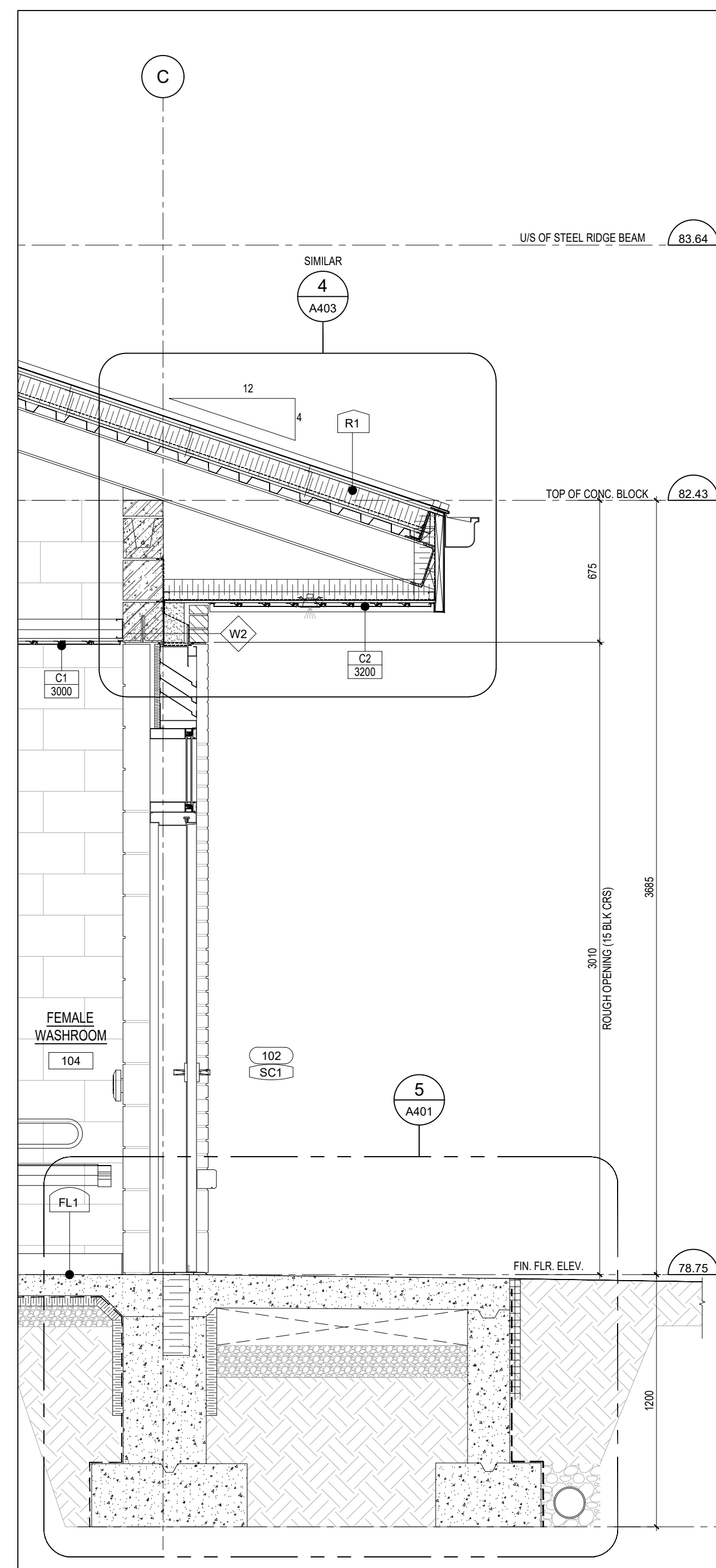
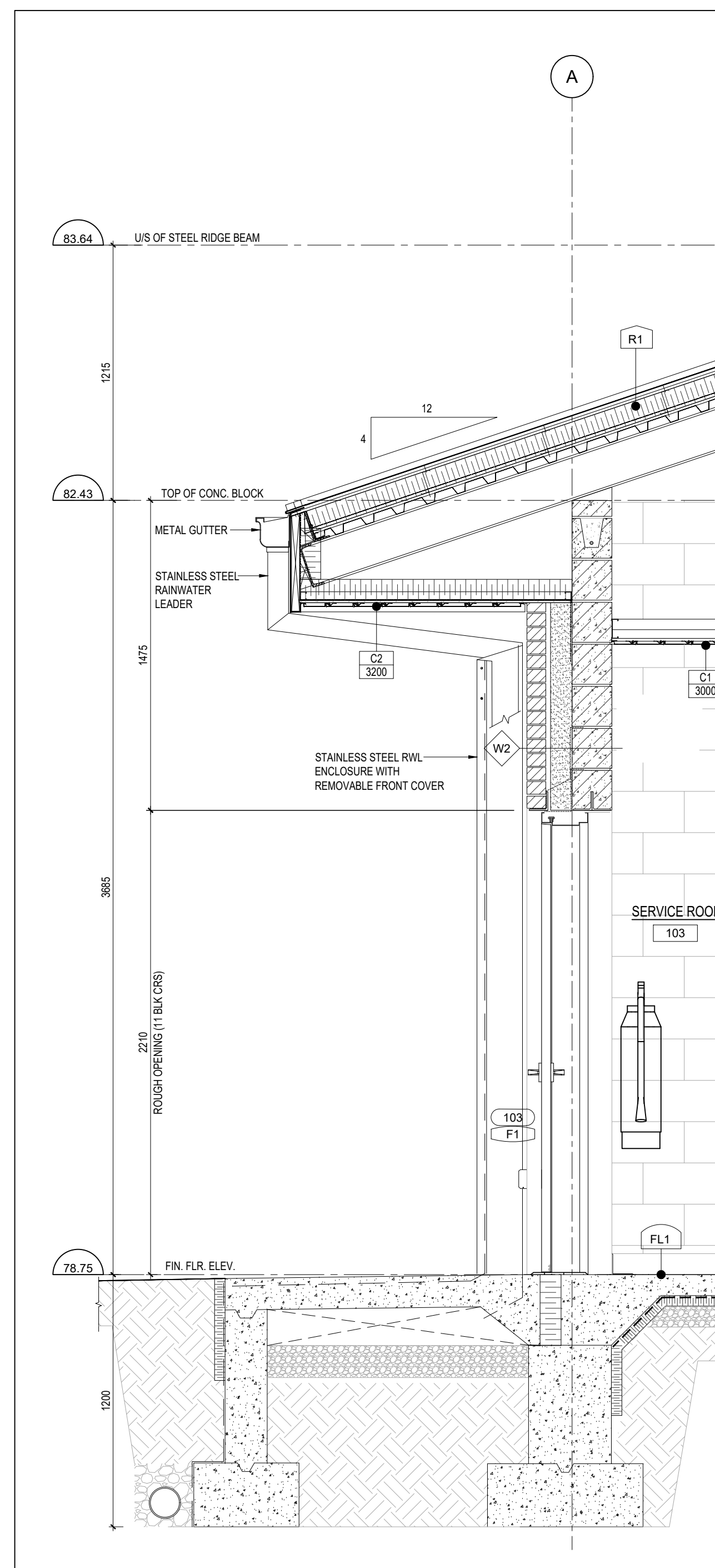
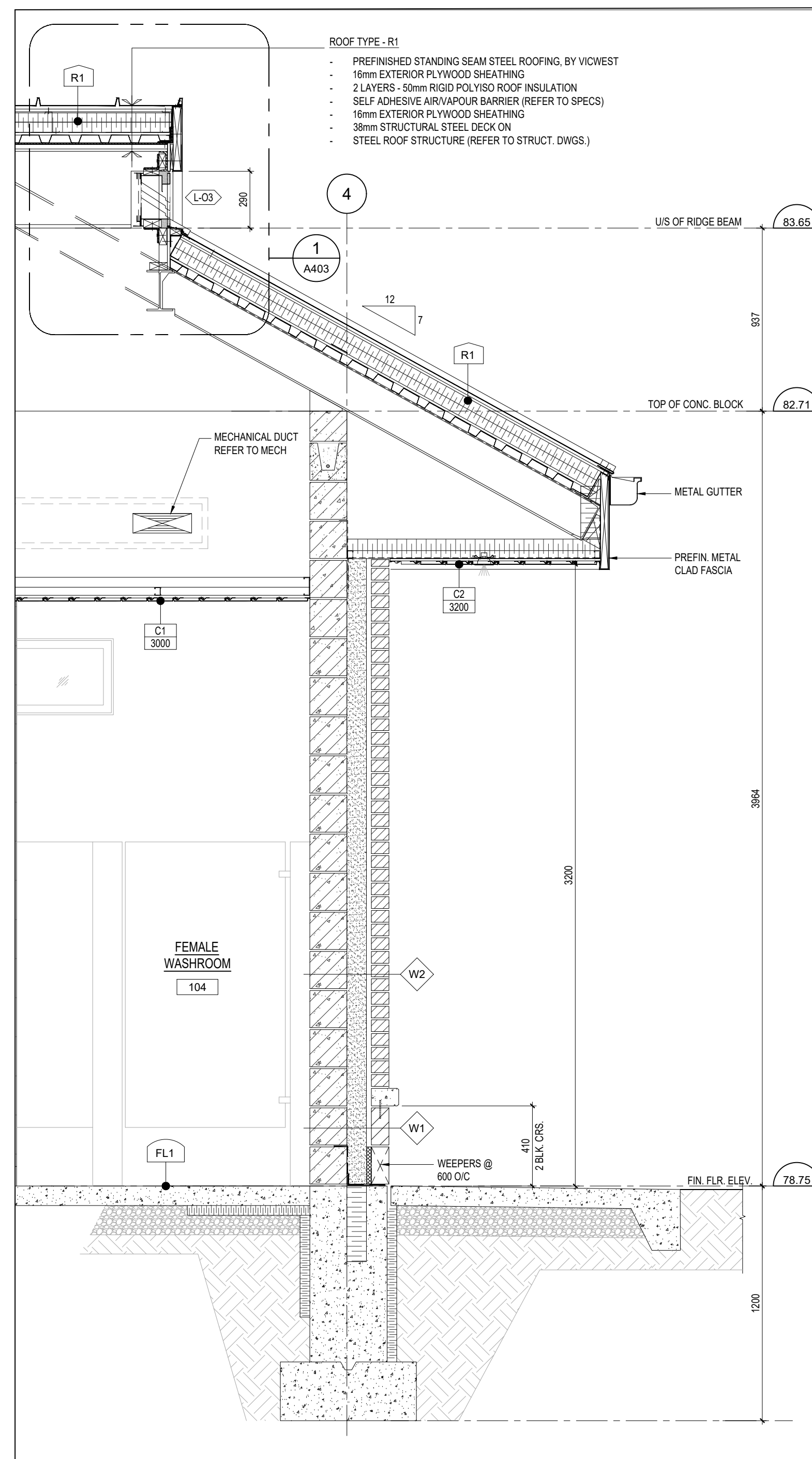
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Checked	CC
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Scale 1:10

Drawing Number

A402



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PROJECT NORTH	TRUE NORTH
---------------	------------

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

Project Title



COMFORT STATION
JACK DARLING
MEMORIAL PARK

1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

Sheet Title

WALL SECTIONS & DETAILS

Project Number	24-053
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Date	Oct. 2024
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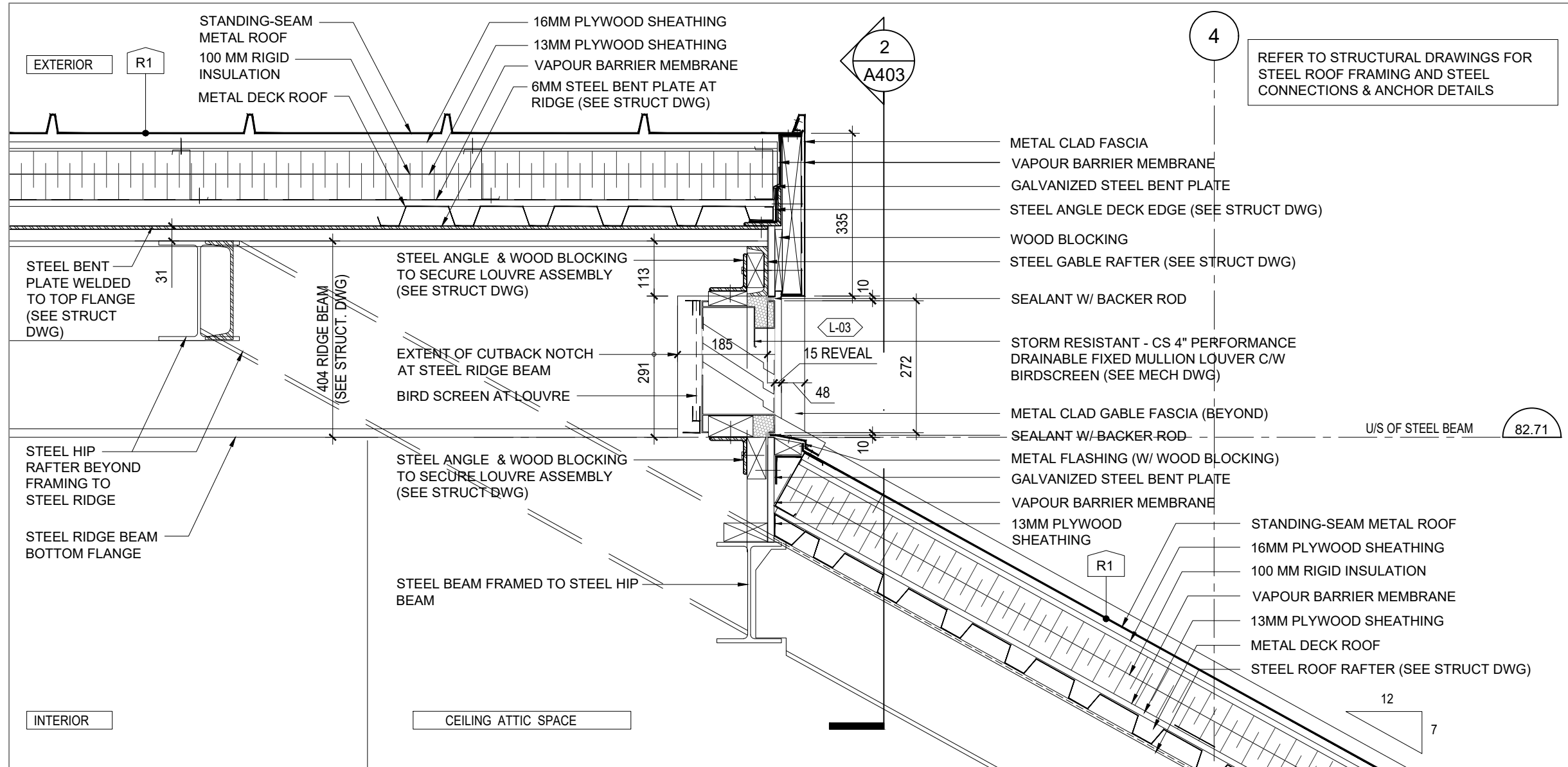
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Checked	CC
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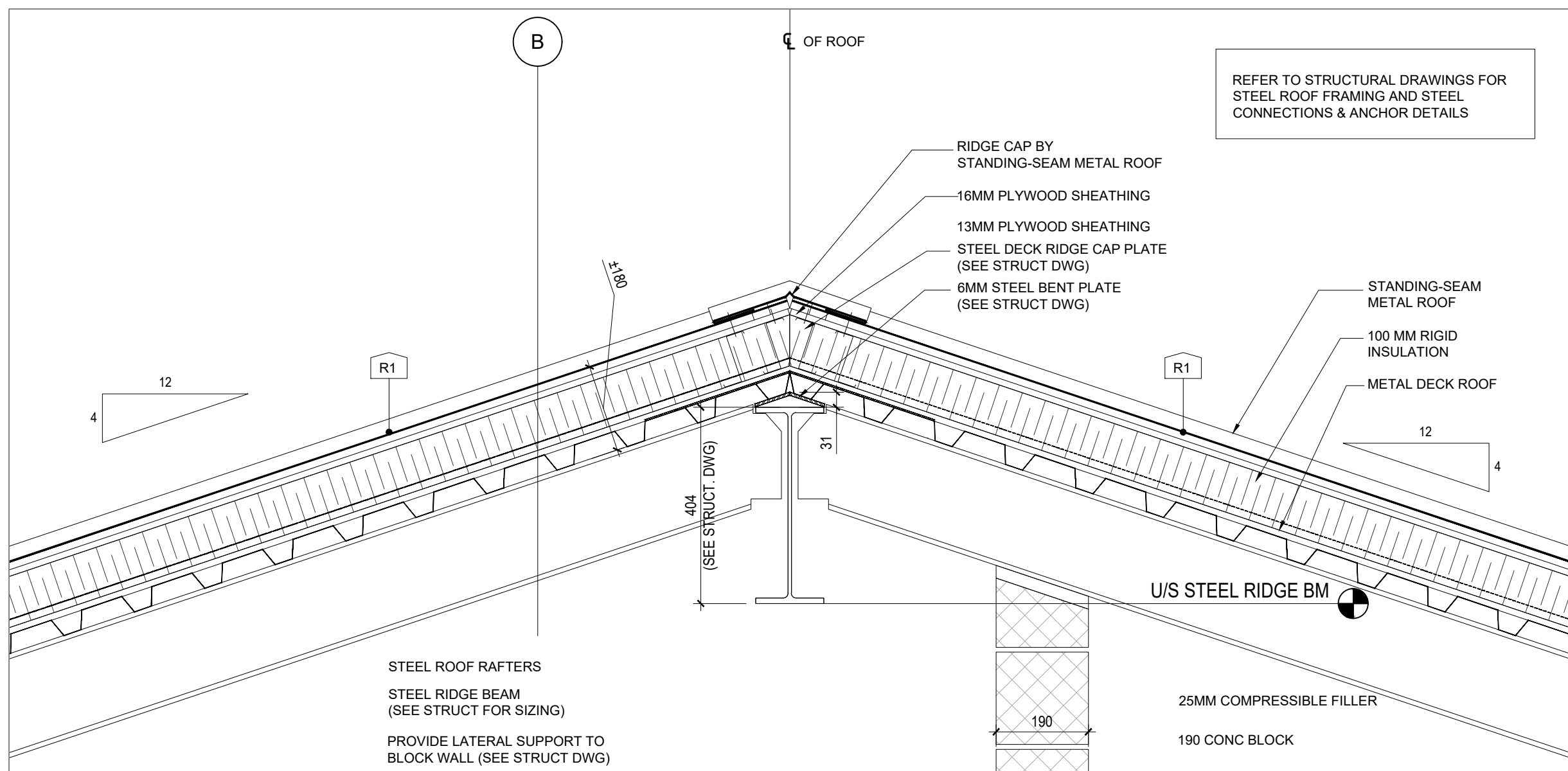
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Drawing Number

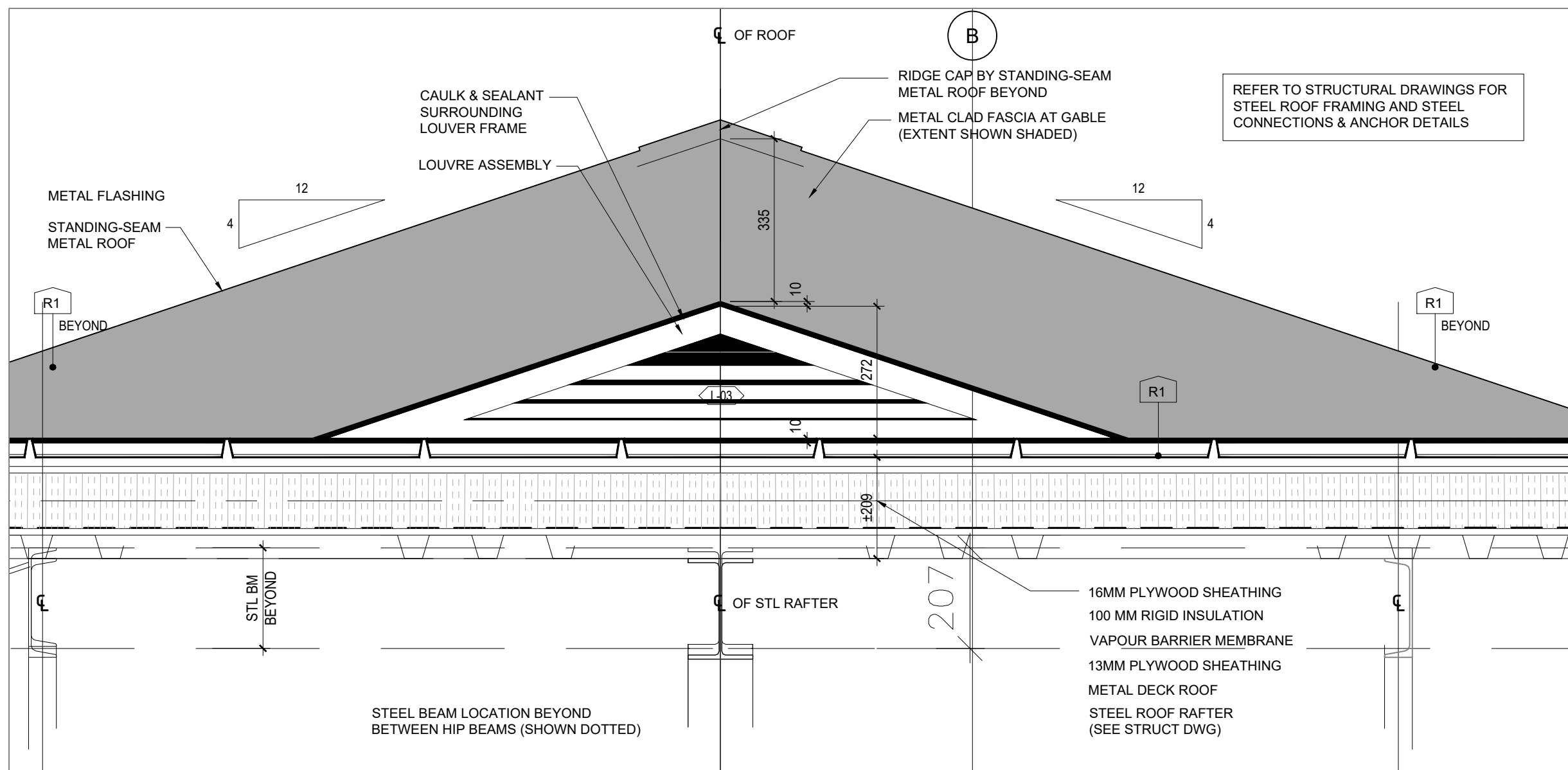
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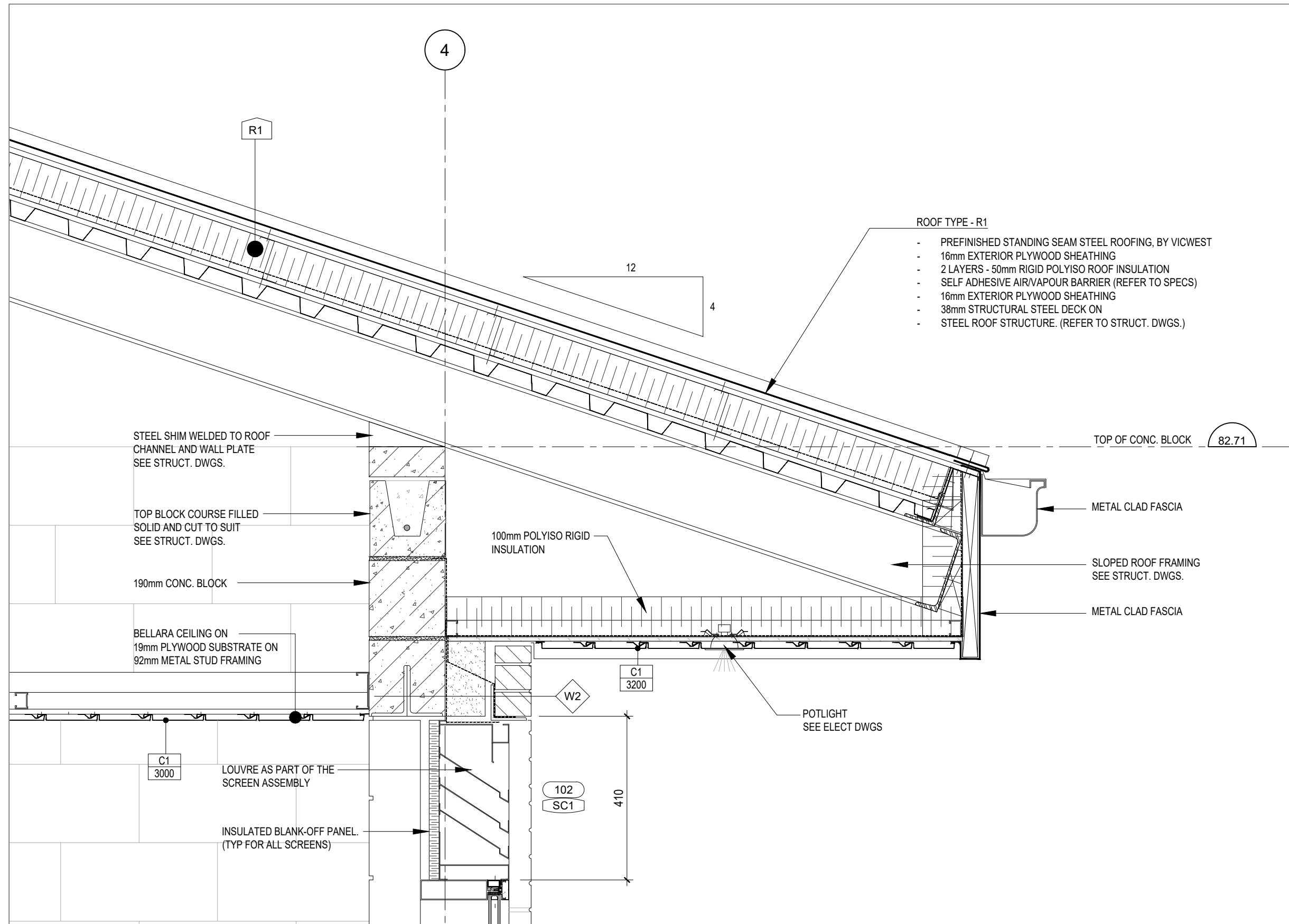
1 SECTION DETAIL AT EAVE
SCALE 1:10



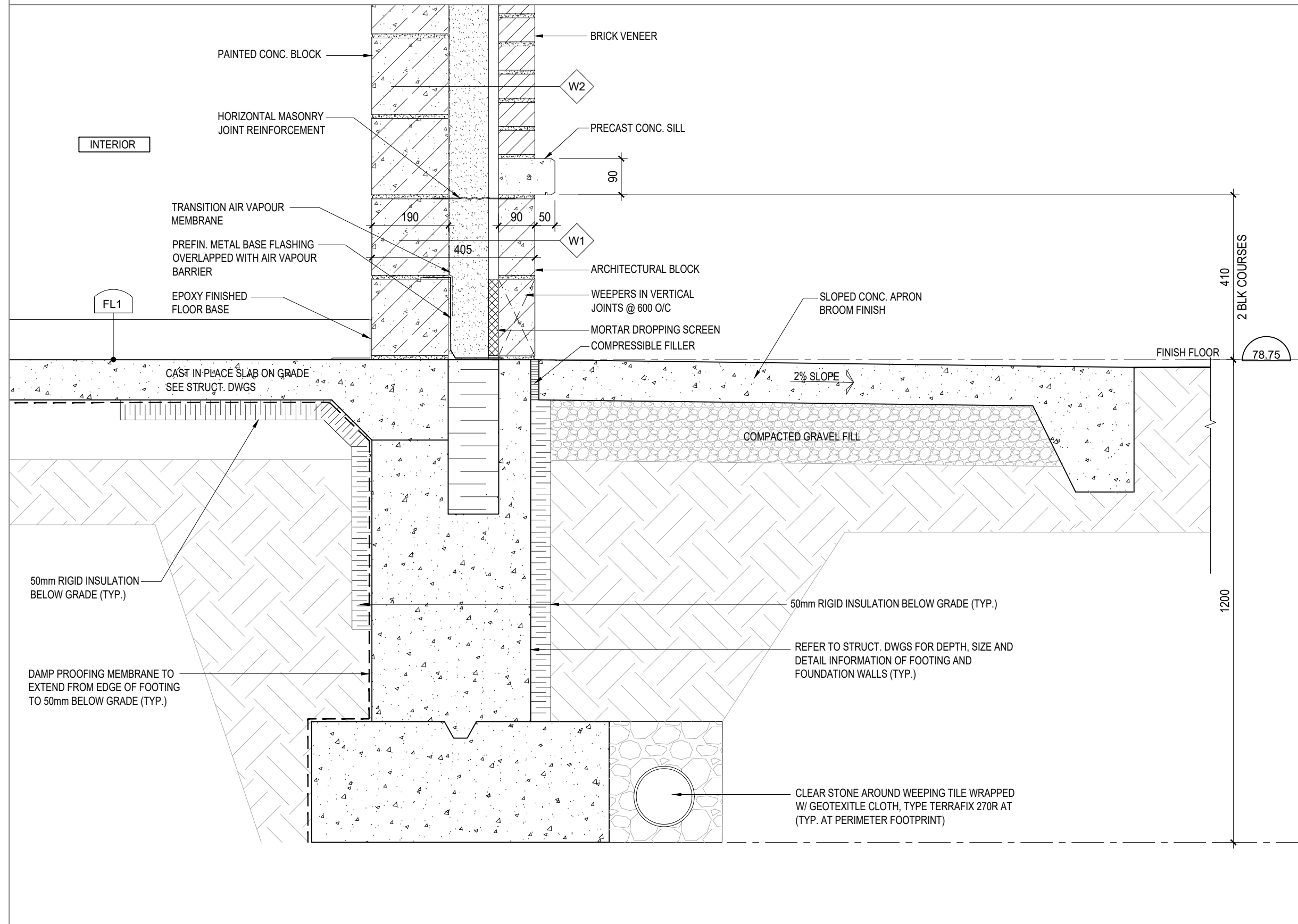
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SCALE 1:10



3 SECTION DETAIL AT EAVE
SCALE 1:10



4 SECTION DETAIL BELOW EAVE AT SCREEN
SCALE 1:10



5 SECTION DETAIL AT FOUNDATION (TYPICAL)
SCALE 1:10

EXTERIOR WALL TYPES

- W1 EXTERIOR WALL CONSTRUCTION: (405mm)
- SPLIT FACE ARCHITECTURAL BLOCK 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 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)
 - 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 WALL
190mm CONC. BLOCK
- P2 INTERIOR CONCRETE BLOCK PARTITION WALL
90mm CONC. BLOCK

CEILING TYPES

- C1 INTERIOR CEILING
BELLARA MOUNTAIN CEDAR BY VICWEST ON 22mm FURRING CHANNELS ON METAL FRAMING SYSTEM @ 1200mm (MAX.) BRACED TO UNDERSIDE OF STEEL ROOF STRUCTURE
- C2 EXTERIOR METAL CANOPY SOFFIT & FASCIA (PMS-1)
BELLARA MOUNTAIN CEDAR BY VICWEST ON 12mm EXTERIOR GRADE PLY ON 2 LAYERS - 50mm RIGID POLYISO ROOF INSULATION SELF-ADHESIVE AIR/VAPOUR BARRIER (REFER TO SPECS)
92mm METAL STUDS @ 400 O.C. BRACED TO UNDERSIDE OF CANOPY STEEL 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.)

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
BFDO	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	GYPSON 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
MP	METAL INSULATED PANEL
MP	METAL PANEL
MR1	MIRROR
PCS	PRECAST CONCRETE SILL
PLAM	PLASTIC LAMINATE
PMC	PREFINISHED METAL CLADDING
PMF	PREFINISHED METAL FLASHING
PSS	PAINTED STRUCTURAL STEEL
PT	PAINT
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
TTD	TOILET TISSUE DISPENSER
URNAL	URNAL
VP	VISION GLAZING (INSULATED ON EXTERIOR)
WC	WATER CLOSET (TOILET FIXTURE)
WMS	WALL MOUNTED SINK
WPF	WATER-PROOFING FLOORING

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REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1	2024-12-06	ISSUED FOR BUILDING PERMIT
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3	2025-10-09	ISSUED FOR TENDER

PROJECT NORTH	TRUE NORTH
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	

Project Title
MISSISSAUGA
COMFORT STATION JACK DARLING MEMORIAL PARK
1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7
Sheet Title

SECTION DETAILS

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

A403

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 Permit
3	Jan. 9, 2025	Re-Issued for Permit
4	Jan. 30, 2025	Issued for Client Review - Pre Tender
5	Sept. 19, 2025	Issued for Building Permit
6	Oct. 6, 2025	Issued for Tender



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



PROJECT



COMFORT STATION JACK
DARLING MEMORIAL PARK

1180 LAKESHORE RD. W, MISSISSAUGA, ON. L5H 3G7

DRAWING

FOUNDATION AND ROOF SECTIONS

PROJECT NO. 20240909

PROJECT DATE Issue Date

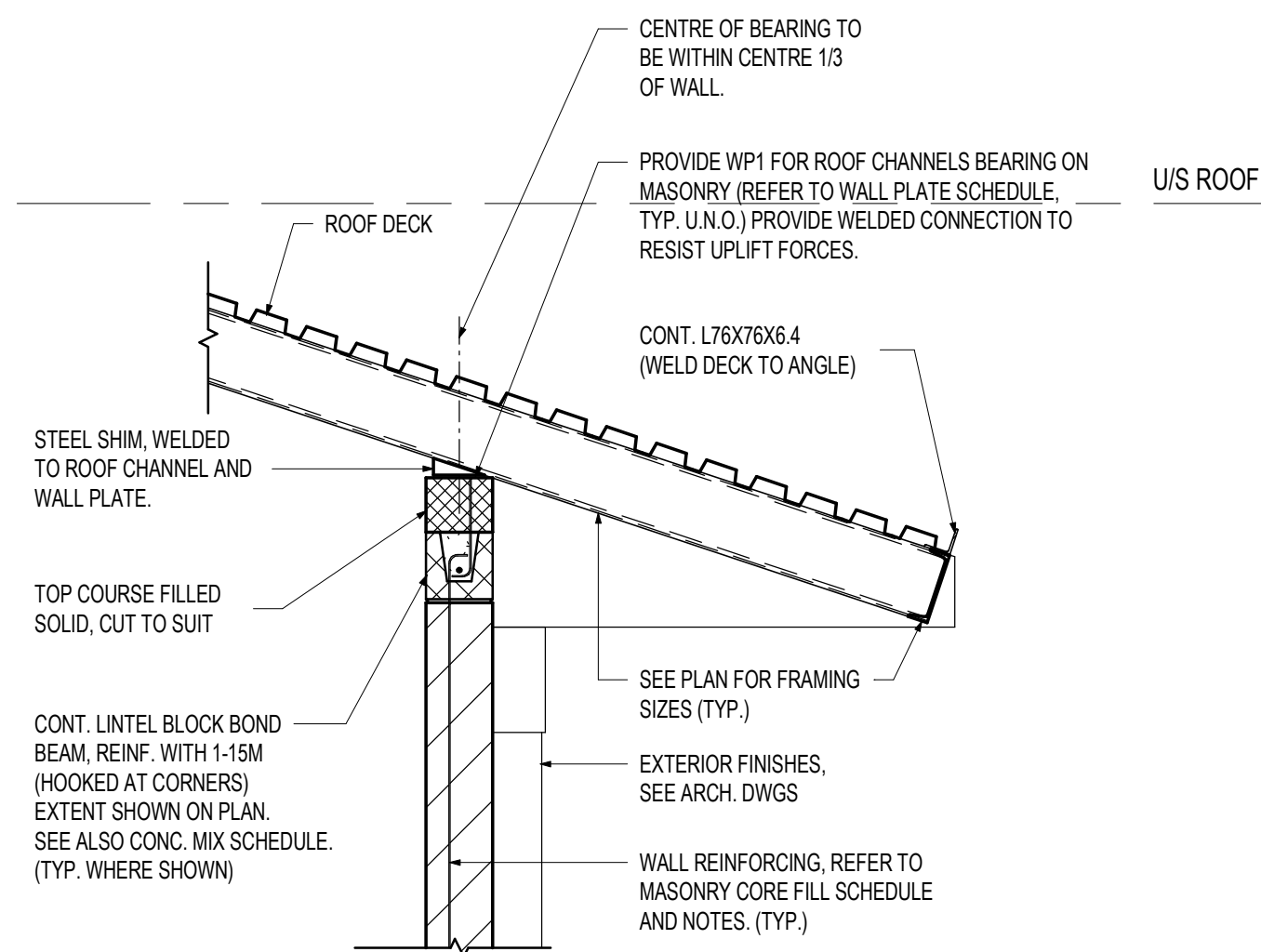
DRAWN BY Author

CHECKED BY Checker

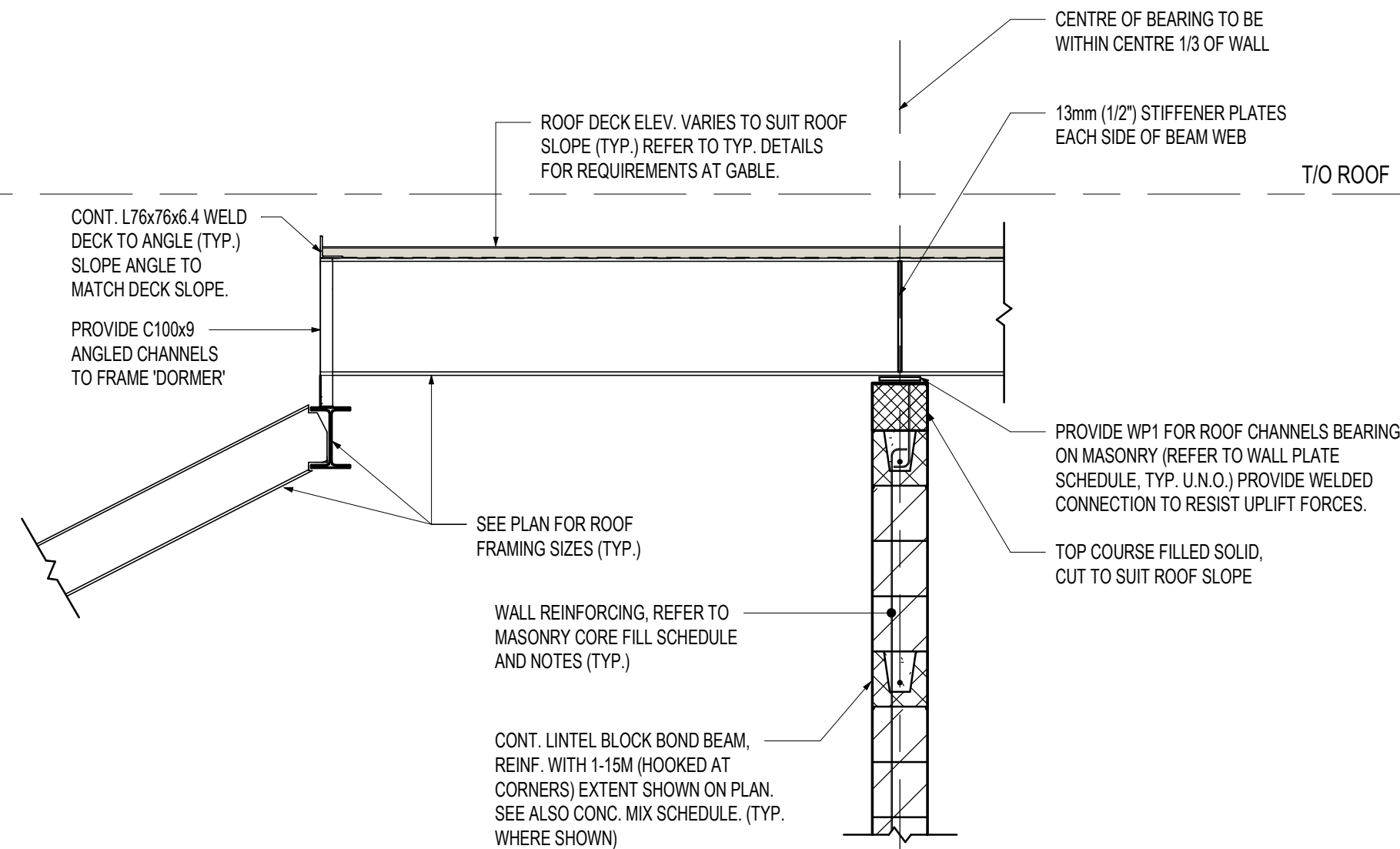
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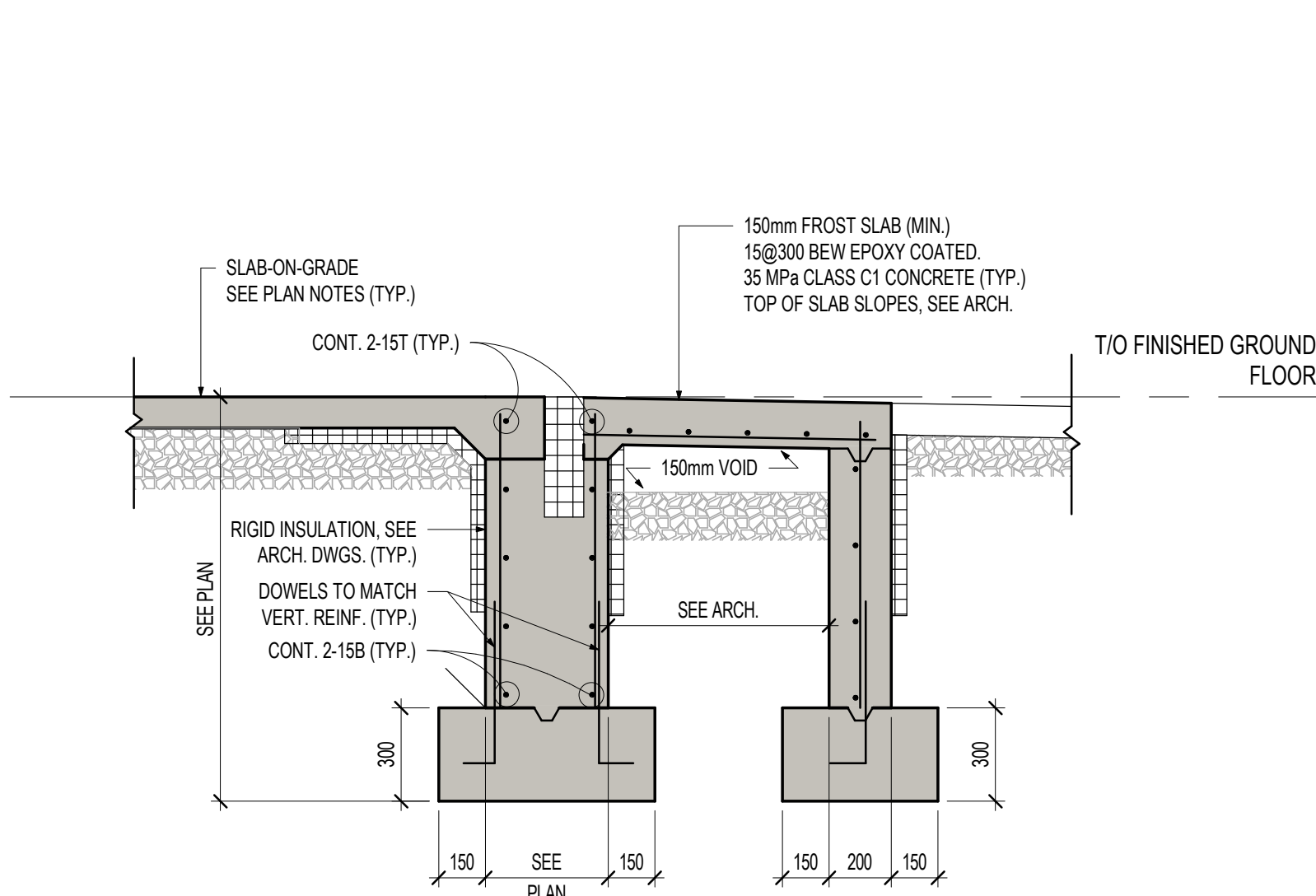
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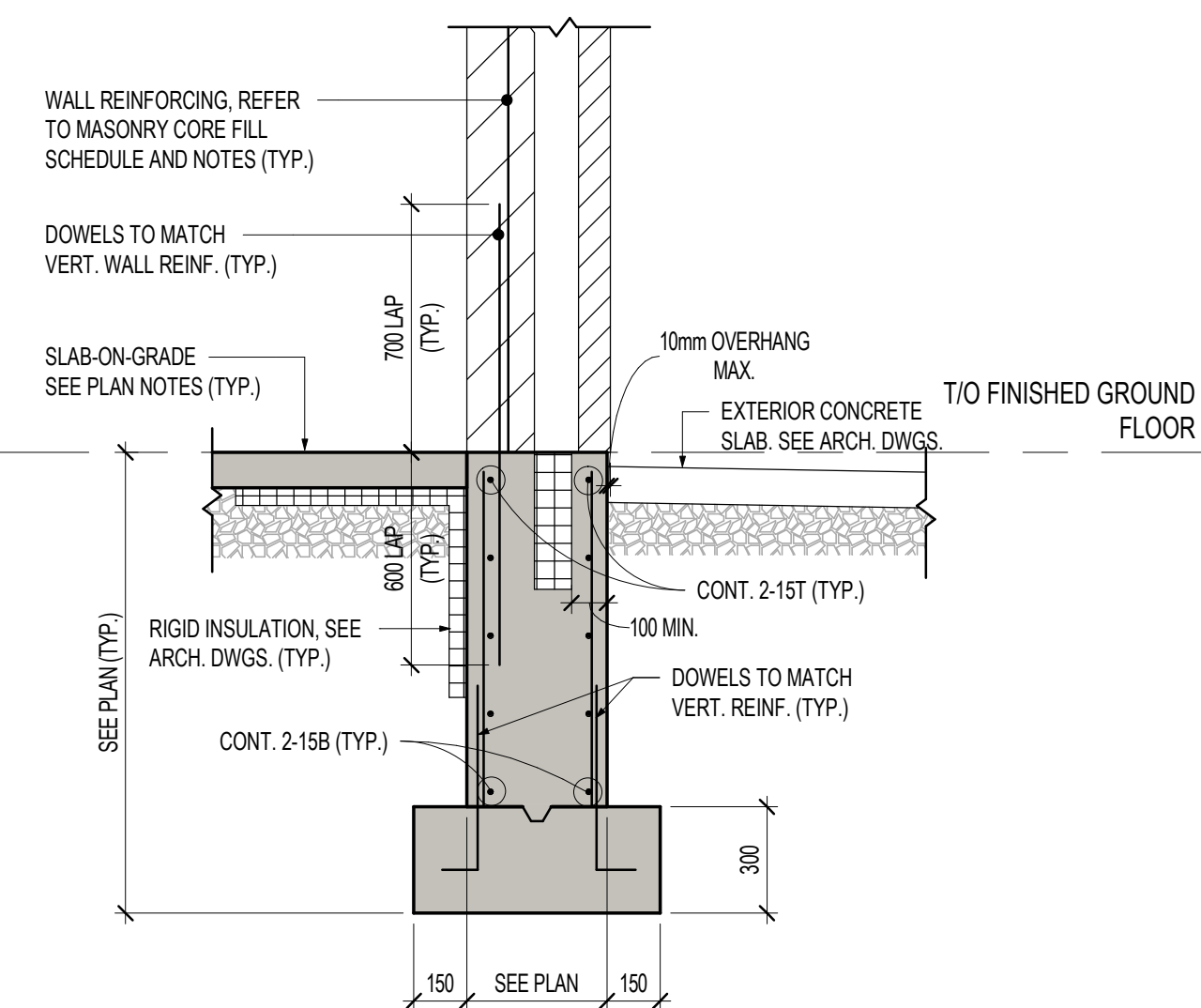
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S2-01 1 : 20



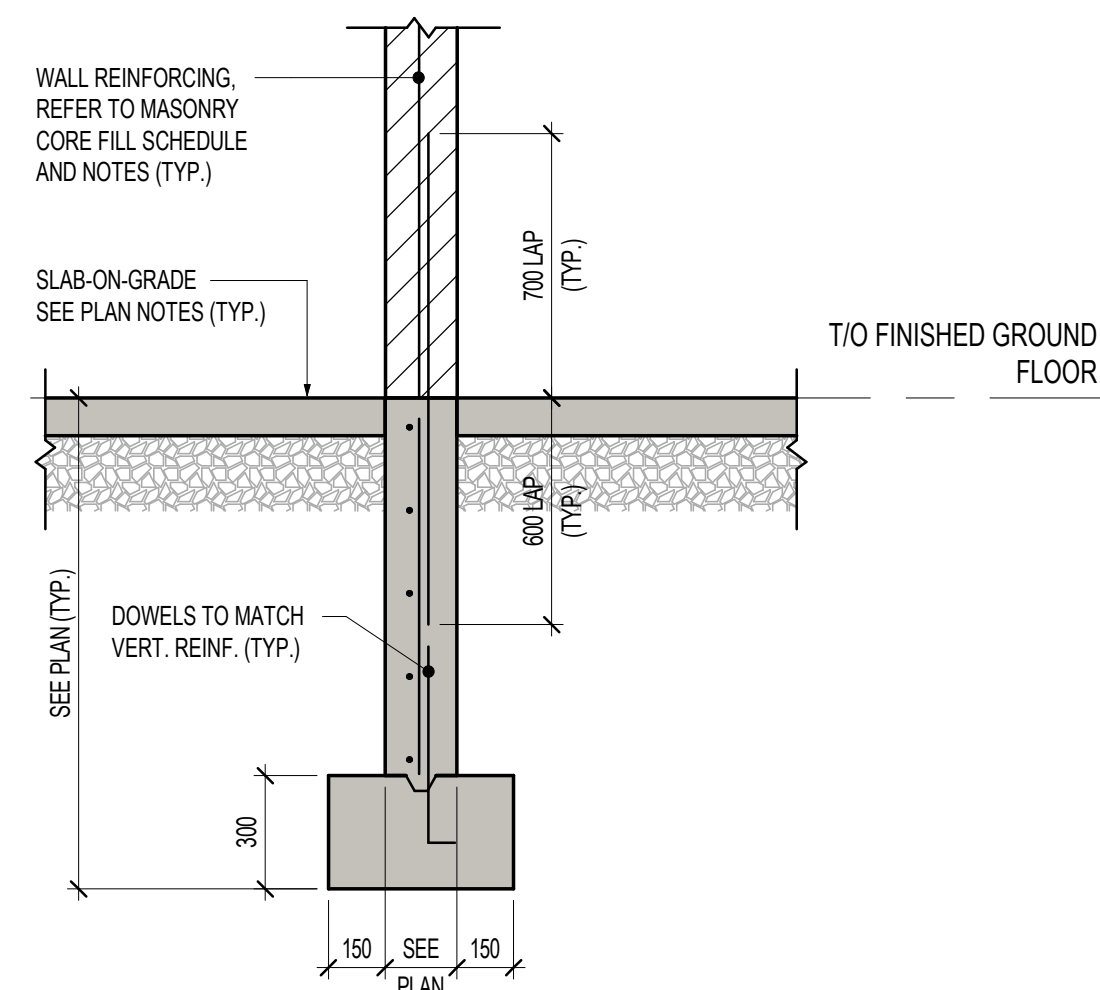
R2 SECTION
S2-01 1 : 20



F1 SECTION
S2-01 1 : 20



F2 SECTION
S2-01 1 : 20



TYPICAL INTERIOR FOUNDATION AT
LOAD BEARING BLOCK WALLS

F3 SECTION
S2-01 1 : 20

TABLE 1: FOUNDATION WALL REINFORCING (UND)

WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT	
	HORIZONTAL	VERTICAL
≤ 150/200	10@320 (CENTERED)	10@440 (CENTERED)
≤ 250	10@400 HEF	10@460 VEF
≤ 300	10@320 HEF	10@440 VEF
≤ 350	10@280 HEF	10@380 VEF
≤ 400	10@240 HEF	10@320 VEF

WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT	
	HORIZONTAL	VERTICAL
≤ 450	15@440 HEF	10@280 VEF
≤ 500	15@400 HEF	15@460 VEF
≤ 600	15@320 HEF	15@440 VEF

STANDARD ABBREVIATIONS		A01	CAST-IN-PLACE CONCRETE NOTES	A03.1	CAST-IN-PLACE CONCRETE NOTES	A03.2	GENERAL NOTES	A02
<div><div><div>@</div><div>-At</div></div><div><div>ADJ</div><div>-Adjustable</div></div><div><div>AIFB</div><div>-Asphalt Impregnated Fibre Board</div></div><div><div>ALT</div><div>-Alternate</div></div><div><div>ARCH</div><div>-Arched</div></div><div><div>A ROD/RJ</div><div>-Anchor Rod</div></div><div><div>ASL</div><div>-Accumulated Snow Loading</div></div><div><div>B (BOT)</div><div>-Bottom</div></div><div><div>BEW</div><div>-Bottom Each Way</div></div><div><div>BUDG</div><div>-Building</div></div><div><div>BUL</div><div>-Bottom Lower Layer</div></div><div><div>BM</div><div>-Beam</div></div><div><div>BML</div><div>-Bottom Middle Layer</div></div><div><div>BNT</div><div>-Base Nominal Thickness</div></div><div><div>B.O.F.</div><div>-Bottom of Footing</div></div><div><div>BP</div><div>-Baseplate</div></div><div><div>BSMT</div><div>-Basement</div></div><div><div>BUL</div><div>-Bottom Upper Layer</div></div><div><div>C</div><div>-Standard Channel</div></div><div><div>CA</div><div>-Cantilever</div></div><div><div>CANT</div><div>-Cantilever</div></div><div><div>CC (c/c)</div><div>-Centre to Centre</div></div><div><div>CJ</div><div>-Control Joint</div></div><div><div>CL</div><div>-Centrelines</div></div><div><div>COL</div><div>-Column</div></div><div><div>COMP</div><div>-Compressible</div></div><div><div>CONC</div><div>-Concrete</div></div><div><div>CONST</div><div>-Construction</div></div><div><div>CONST JT (CJT)</div><div>-Construction Joint</div></div><div><div>CONT (CONTIN)</div><div>-Continuous</div></div><div><div>CW</div><div>-Complete With</div></div><div><div>D FIR</div><div>-Douglas Fir</div></div><div><div>DET</div><div>-Detail</div></div><div><div>DIAG</div><div>-Diagonal</div></div><div><div>Ø (DIA)</div><div>-Diameter</div></div><div><div>DIM</div><div>-Dimension</div></div><div><div>DJ</div><div>-Double Joint</div></div><div><div>DL</div><div>-Dead Load</div></div><div><div>DO</div><div>-Ditto</div></div><div><div>DWG</div><div>-Drawing</div></div><div><div>DWL</div><div>-Down</div></div><div><div>DT</div><div>-Double Tee</div></div><div><div>E-W</div><div>-East-West</div></div><div><div>EA</div><div>-Each</div></div><div><div>EE</div><div>-Each End</div></div><div><div>EF</div><div>-Each Face</div></div><div><div>ELECT</div><div>-Electrical</div></div><div><div>ELEV (EL)</div><div>-Elevation / Elevator</div></div><div><div>EQ</div><div>-Equal</div></div><div><div>ES</div><div>-Each Side</div></div><div><div>EW</div><div>-Each Way</div></div><div><div>EXIST</div><div>-Existing</div></div><div><div>EXP JT</div><div>-Expansion Joint</div></div><div><div>EXT</div><div>-Exterior</div></div><div><div>FDN</div><div>-Foundation</div></div><div><div>FF</div><div>-Flat Face</div></div><div><div>FIN</div><div>-Finished</div></div><div><div>FL</div><div>-Floor</div></div><div><div>FMC</div><div>-Full Moment Connection</div></div><div><div>FT</div><div>-Foot / Feet</div></div><div><div>FTG</div><div>-Footing</div></div><div><div>GA</div><div>-Gauge</div></div><div><div>GALV</div><div>-Galvanized</div></div><div><div>GEN</div><div>-General</div></div></div> <div><div><div>H (HOR)</div><div>-Horizontal</div></div><div><div>HEF</div><div>-Horizontal Each Face</div></div><div><div>HIF</div><div>-Horizontal Inside Face</div></div><div><div>HOF</div><div>-Horizontal Outside Face</div></div><div><div>HSC</div><div>-Horizontally Slotted Connection</div></div><div><div>HSS</div><div>-Hollow Structural Section</div></div><div><div>IF</div><div>-Inside Face</div></div><div><div>INT</div><div>-Interior</div></div><div><div>INV</div><div>-Invert</div></div><div><div>JT</div><div>-Joint</div></div><div><div>kg</div><div>-Kilogram</div></div><div><div>K/m</div><div>-Kilo Newton Metres</div></div><div><div>KN/m²</div><div>-Kilo Newton per Square Metre</div></div><div><div>KPa</div><div>-Kilo Newton per Metre</div></div><div><div>KPa</div><div>-Kilo Pascals</div></div><div><div>L</div><div>-Length</div></div><div><div>LB</div><div>-Pounds</div></div><div><div>LG</div><div>-Long</div></div><div><div>LL</div><div>-Live Load / Lower Layer</div></div><div><div>LLH</div><div>-Long Leg Horizontal</div></div><div><div>LLV</div><div>-Long Leg Vertical</div></div><div><div>LSSJ</div><div>-Long Span Steel Joists</div></div><div><div>LVL</div><div>-Laminated Veneer Lumber</div></div><div><div>m</div><div>-Metre</div></div><div><div>MAX</div><div>-Maximum</div></div><div><div>MECH</div><div>-Mechanical</div></div><div><div>MEZZ</div><div>-Mezzanine</div></div><div><div>MIN</div><div>-Minimum</div></div><div><div>MISC</div><div>-Miscellaneous</div></div><div><div>ML</div><div>-Middle Layer</div></div><div><div>MLL</div><div>-Middle Lower Layer</div></div><div><div>mm</div><div>-Millimetre</div></div><div><div>MOM (M)</div><div>-Moment</div></div><div><div>MPa</div><div>-Mega Pascals</div></div><div><div>MUL</div><div>-Middle Upper Layer</div></div><div><div>N</div><div>-Newton</div></div><div><div>N-S</div><div>-North-South</div></div><div><div>NF</div><div>-Near Face</div></div><div><div>NIC</div><div>-Not in Contact</div></div><div><div>No (#)</div><div>-Number</div></div><div><div>NTS</div><div>-Not to Scale</div></div><div><div>OWSJ</div><div>-Open Web Steel Joist</div></div><div><div>Pa</div><div>-Pascal</div></div><div><div>Pc</div><div>-Precast</div></div><div><div>PL</div><div>-Plate</div></div><div><div>PLF</div><div>-Pounds per Lineal Foot</div></div><div><div>PREL</div><div>-Preliminary</div></div><div><div>PROJ</div><div>-Projection</div></div><div><div>PSF</div><div>-Pounds per Square Foot</div></div><div><div>PSI</div><div>-Pounds per Square Inch</div></div><div><div>PSL</div><div>-Parallel Strand Lumber</div></div><div><div>PT</div><div>-Pressure Treated</div></div><div><div>R</div><div>-Reaction</div></div><div><div>RAD</div><div>-Radius</div></div><div><div>REF</div><div>-Reference</div></div><div><div>REINF</div><div>-Reinforcing</div></div><div><div>REQD</div><div>-Required</div></div><div><div>REV</div><div>-Revision/Revised</div></div><div><div>RF</div><div>-Factored Vertical Reaction</div></div><div><div>R/W</div><div>-Reinforced With</div></div></div> <div><div><div>S</div><div>-Standard Beam</div></div><div><div>SDF</div><div>-Step Down Footing</div></div><div><div>SDL</div><div>-Superimposed Dead Load</div></div><div><div>SECT</div><div>-Section</div></div><div><div>SIL</div><div>-Silo</div></div><div><div>SO</div><div>-Square</div></div><div><div>SOG</div><div>-Slab on Grade</div></div><div><div>S.P.F.</div><div>-Spruce/Pine/Fir</div></div><div><div>SPEC</div><div>-Specifications</div></div><div><div>ST</div><div>-Steel</div></div><div><div>STD</div><div>-Standard</div></div><div><div>STR</div><div>-Straight</div></div><div><div>STRUCT</div><div>-Structural</div></div><div><div>T</div><div>-Top</div></div><div><div>TEMP</div><div>-Temperature</div></div><div><div>TJ</div><div>-Tension Force</div></div><div><div>TJ</div><div>-Tie Joint</div></div><div><div>TLL</div><div>-Top Lower Layer</div></div><div><div>TMF</div><div>-Factored Torsional Moment</div></div><div><div>TML</div><div>-Top Middle Layer</div></div><div><div>TOD</div><div>-Top of Deck</div></div><div><div>T.O.F.</div><div>-Top of Footing</div></div><div><div>TOS, TS</div><div>-Top of Slab</div></div><div><div>TOST</div><div>-Top of Steel</div></div><div><div>TST</div><div>-Tons per Square Foot</div></div><div><div>TUL</div><div>-Top Upper Layer</div></div><div><div>TYP</div><div>-Typical</div></div><div><div>UL</div><div>-Upper Layer</div></div><div><div>UN</div><div>-Unless Noted</div></div><div><div>U.N.O</div><div>-Unless Noted Otherwise</div></div><div><div>USD</div><div>-Underside</div></div><div><div>USD</div><div>-Underside of Deck</div></div><div><div>V (VERT)</div><div>-Vertical</div></div><div><div>VBF</div><div>-Vertically Braced Framing</div></div><div><div>VEF</div><div>-Vertical Each Face</div></div><div><div>VIF</div><div>-Vertical Inside Face</div></div><div><div>VOF</div><div>-Vertical Outside Face</div></div><div><div>VSC</div><div>-Vertically Slotted Connection</div></div><div><div>W</div><div>-Wide Flange Beam</div></div><div><div>WP</div><div>-Wall Plate</div></div><div><div>W/F</div><div>-Welded Wide Flange Beam</div></div><div><div>WWF (WWM)</div><div>-Welded Wire Fabric/ Mesh</div></div></div> <div><div><div>STANDARD LAP ABBREVIATIONS</div><div><div>CLS</div><div>-Compression Lap Splice</div></div><div><div>CDS</div><div>-Compression Development Length</div></div><div><div>HEL</div><div>-Hook Embedment Length</div></div><div><div>TLS</div><div>-Tension Lap Splice</div></div><div><div>TDL</div><div>-Tension Development Length</div></div></div></div> <div><div><div>1. GENERAL</div><div>1.1. UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS, THE FOLLOWING INDICATES THE MINIMUM REQUIREMENTS APPLICABLE TO STRUCTURAL LOAD BEARING MASONRY.</div><div>1.2. REFER ALSO TO ARCHITECTURAL DRAWINGS AND /OR THE SPECIFICATION FOR REQUIREMENTS OTHER THAN STRUCTURAL, AND FOR NON-LOAD BEARING WALLS AND PARTITIONS.</div><div>1.3. MASONRY CONSTRUCTION TO CONFORM TO CSA STANDARD S304.1.</div><div>2. PRODUCTS</div><div>2.1. CONCRETE BLOCKS TO BE MODULAR UNITS AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND /OR SPECIFICATION, AND UNLESS OTHERWISE NOTED SHALL BE:</div><div>2.1.1. FOR BELOW GRADE AND EXTERIOR EXPOSED WALLS USE NORMAL WEIGHT LOAD BEARING UNITS:</div><div>STANDARD HOLLOW: TYPE H / 15 / A / M.</div><div>75% SOLID: TYPE S / 15 / A / M.</div><div>100% SOLID: TYPE S / 15 / A / M.</div><div>2.1.2. FOR INTERIOR ABOVE GRADE WALLS USE EITHER:</div><div>2.1.2.1 LIGHTWEIGHT LOAD BEARING BLOCKS:</div><div>STANDARD HOLLOW: TYPE H / 15 / C / M.</div><div>75% AND 100% SOLID: TYPE S / 15 / C / M.</div><div>2.1.2.2 ULTRA LIGHT (OR EQUIVALENT) BLOCKS:</div><div>STANDARD HOLLOW: TYPE H / 15 / D / M.</div><div>REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR LOCATIONS AND TYPES).</div><div>2.2. CLAY BRICKS:</div><div>TO CONFORM TO ONE OR MORE OF CSA STANDARDS A82 (SERIES) SEE ARCHITECTURAL DRAWINGS AND /OR SPECIFICATIONS FOR TYPES AND STYLES OF BRICKS REQUIRED. UNLESS OTHERWISE NOTED, THE MINIMUM COMPRESSIVE STRENGTH (BRICK FLATWISE) GROSS AREA SHALL BE 20 MPa.</div><div>2.3. MORTAR:</div><div>TO CONFORM TO CSA A179.</div><div>FOR LAYING ALL LOAD BEARING CONCRETE BLOCKS USE TYPE "S" MORTAR UNLESS NOTED.</div><div>FOR LAYING ALL CLAY BRICKS USE TYPE "M" MORTAR UNLESS NOTED.</div><div>2.4. MASONRY GROUT:</div><div>TO CONFORM TO CSA A179. THE SLUMP SHALL BE 200mm (8" TO 10") AND THE MINIMUM 28 DAY COMPRESSIVE STRENGTH FOR "FINE" GROUT SHALL BE 15MPa.</div><div>2.5. MASONRY CONNECTORS (ANCHORS, FASTENERS AND TIES):</div><div>SHALL CONFORM TO CSA A370, AND BE INSTALLED TO COMPLY WITH CSA A371.</div><div>SPACING, STRENGTH AND GALVANIZING OF STRIP TIES, DOVETAIL ANCHORS, BAR ANCHORS, ROD ANCHORS, STRAP ANCHORS, WALL AND PARTITION ANCHORS SHALL COMPLY WITH CSA A370.</div><div>2.6. HORIZONTAL JOINT REINFORCEMENT FOR ALL MASONRY WALLS:</div><div>THE FOLLOWING ARE MINIMUM REQUIREMENTS:</div><div>2.6.1. CONFORM TO CSA STANDARDS A370 AND A371.</div><div>2.6.2. REINFORCEMENT SHALL BE AN APPROVED CONTINUOUS "LADDER" TYPE, PREFABRICATED WITH 3.66mm DIAMETER (9 GAUGE) LONGITUDINAL AND CROSS WIRES.</div><div>2.6.3. SPACING- PROVIDE REINFORCING IN THE TOP COURSE IMMEDIATELY BELOW FLOOR AND ROOF BEARING LEVELS AND THE FIRST TWO COURSES ABOVE AND BELOW EVERY WALL OPENING. THE REINFORCING SHALL EXTEND 600mm (24") BEYOND SUCH OPENINGS. FOR THE REMAINDER OF WALLS, THE VERTICAL SPACING SHALL NOT EXCEED 400mm (16").</div><div>2.6.4. OVERLAP SPLICES:</div><div>SHALL BE A MIN. OF 150mm (6") FOR KNURLED WIRE AND 300mm (12") FOR PLAIN WIRE.</div><div>LAPS SHALL BE STAGGERED A MINIMUM OF 750mm (30") FROM COURSE TO COURSE.</div><div>REINFORCING SHALL NOT PASS THROUGH A VERTICAL CONTROL JOINT UNLESS OTHERWISE SHOWN.</div><div>2.6.5. CORROSION RESISTANCE:</div><div>JOINT REINFORCING FOR ALL WALLS IN CONTACT WITH SOIL, EXTERIOR WALLS AND WALLS IN A MOIST ENVIRONMENT SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION TO ASTM A153, 458 g/m² sq meter (1.5 oz / sq. foot).</div><div>2.6.6. COMPOSITE AND CAVITY WALLS:</div><div>WHERE COURSING OF WYTHES DO NOT ALIGN OF WHERE IT IS DESIRABLE AND PERMITTED TO BUILD ONE WYTHE BEFORE THE OTHER, REINFORCING SHALL BE AN APPROVED ADJUSTABLE TYPE WITH A BOX OR EYE SECTION WHICH EXTENDS INTO THE COLLAR JOINT OR CAVITY AND RESTRAINS THE TRANSVERSE MOVEMENT OF THE TWO WYTHES. FOR CAVITY WALLS WITH RIGID INSULATION, EXTENSION SHALL BE DESIGNED TO HOLD THE INSULATION IN PLACE BY USE OF PLASTIC WEDGES OR APPROVED EQUAL. GALVANIZED HOOK STYLE "BOX TIES" OR "PIN TIES" SHALL EXTEND INTO THE FACE WYTHE TO COMPLETE THE ASSEMBLY.</div><div>2.6.7. PROVIDE ALL PREFABRICATED CORNER AND TEE SECTIONS.</div><div>2.7. COMPOSITE WALLS- SHALL HAVE THE VERTICAL COLLAR JOINTS BETWEEN WYTHES COMPLETELY FILLED WITH MORTAR OR GROUT.</div><div>2.8. BOND BEAMS- MADE FROM LINTEL BLOCKS, OR HALF WEB BLOCKS, WHERE SHOWN ON STRUCTURAL DRAWINGS SHALL CONFORM TO CSA A371.</div><div>2.9. GROUTING- BY FILLING VOIDS OF HOLLOW UNITS AND REINFORCED HOLLOW UNITS SHALL CONFORM TO CSA A179 (MORTAR IS NOT ACCEPTABLE).</div><div>2.10. EXPANSION AND CONTROL JOINTS:</div><div>SHALL BE PROVIDED. SEE ARCHITECTURAL DRAWINGS AND /OR SPECIFICATION FOR DETAILS.</div></div></div> <div><div><div>3. EXECUTION</div><div>3.1. BEARING ON MASONRY:</div><div>3.1.1. MINIMUM BEARING ON MASONRY UNLESS OTHERWISE NOTED:-</div><div>BEAMS (STEEL, CONC., WOOD) 200mm (8") NOMINAL</div><div>UNITS (STEEL, CONC., WOOD) 150mm (6") NOMINAL</div><div>SLABS (CAST-IN-PLACE, PRECAST) 100mm (4") NOMINAL</div><div>STEEL DECKING (ON WELD PLATE) 100mm (4") NOMINAL</div><div>3.1.2. MASONRY BEARINGS SHALL BE OF SOLID BLOCKS (OR GROUTED SOLID) OR BRICKS LAID IN MORTAR. ALL JOINTS ARE TO BE FULLY FILLED WITH TYPE "S" MORTAR.</div><div>3.1.3. MIN. SIZE OF SOLID BEARINGS AT BEAMS AND LINTELS UNLESS NOTED SHALL BE EQUAL TO TWICE THE BEARING / WALL PLATE (WP) LENGTH AND FOR A DEPTH EQUAL TO THE BEARING / WALL PLATE (WP) LENGTH, AND IN NO CASE LESS THAN 400 LONG x 200 DEEP (16" x 8"). SYMMETRICAL UNDER BEARING POINT.</div><div>3.1.4. PROVIDE A MINIMUM OF ONE CONTINUOUS COURSE 200mm (8") OF SOLID OR GROUTED VOID BLOCKS OR BRICKS LAID IN MORTAR AT THE TOP COURSE IMMEDIATELY BELOW ALL ROOF BEARING LEVELS.</div><div>3.2. TOLERANCES:</div><div>UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS AND /OR SPECIFICATION, SHALL CONFORM TO CSA A371.</div><div>3.3. COLD WEATHER CONSTRUCTION- REQUIREMENTS AND PROTECTION SHALL CONFORM TO CSA A371 AND UNDER NO CIRCUMSTANCES SHALL MASONRY CONSTRUCTION BE PERMITTED WHEN THE AIR TEMPERATURE FALLS BELOW -12°C.</div><div>4. QUALITY CONTROL</div><div>4.1. WHEN REQUESTED SAMPLING AND TESTING SHALL CONFORM TO CSA STANDARDS S304.1 AND ASTM C140. REFER ALSO TO GENERAL NOTES.</div></div></div> <div><div><div>1. GENERAL</div><div>1.1. ONE ANGLE 90 x 90 x 6 (3 1/2" x 3 1/2" x 1/4") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.</div><div>OR</div><div>1.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-10M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.</div><div>2. FOR OPENINGS FROM 120mm (4'-0") CLEAR TO 1800mm (6'-0") CLEAR:</div><div>2.1. ONE ANGLE 125 x 90 x 8 LONG LEG VERTICAL (5 x 3 1/2" x 5/16") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.</div><div>OR</div><div>2.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-19M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.</div><div>3. ALL LINTELS TO BEAR 150mm (6") MINIMUM AT EACH END ON SOLID MASONRY, UNLESS SHOWN OTHERWISE.</div><div>4. PAIRS OF LINTEL ANGLES ARE TO BE BOLTED OR WELDED TOGETHER, PRIOR TO SHIPMENT, AT MAXIMUM 450mm (18") CENTRES.</div><div>5. MASONRY LINTEL BLOCKS MAY ONLY BE USED IN LOAD-BEARING WALLS WITH PERMISSION AND MUST BE FILLED WITH 20 MPa CONCRETE. MORTAR IS NOT ACCEPTABLE AND WILL BE REJECTED.</div><div>6. STEEL LINTELS ARE TO BE SUPPLIED BY STEEL CONTRACTOR BUT PLACED BY GENERAL CONTRACTOR OR MASONRY SUB- CONTRACTOR.</div><div>7. STEEL CONTRACTOR TO SUPPLY ALL NECESSARY DIRECTIONS REQUIRED FOR PLACING STEEL LINTELS.</div><div>8. WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ON THE STRUCTURAL DRAWINGS EACH AND EVERY LINTEL OVER DOORS, MECHANICAL AND ELECTRICAL SERVICES, RECESSES AND POCKETS ETC., THROUGH LOAD-BEARING MASONRY WALLS, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE AND SUPPLY ALL LINTELS REQUIRED THROUGH ALL WALLS (INCLUDING NON-LOAD BEARING WALLS) THROUGHOUT THE PROJECT, UNLESS OTHERWISE DIRECTED. LINTELS SHALL CONFORM TO THE ABOVE REQUIREMENTS.</div><div>9. REFER ALSO TO TYPICAL DETAILS.</div></div></div> <div><div><div>1. UNLESS OTHERWISE SHOWN OR NOTED ON THE STRUCTURAL DRAWINGS, PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS, AS FOLLOWS:</div><div>1. FOR OPENINGS UP TO 1200 mm (4'-0") CLEAR:</div><div>1.1. ONE ANGLE 90 x 90 x 6 (3 1/2" x 3 1/2" x 1/4") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.</div><div>OR</div><div>1.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-10M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.</div><div>2. FOR OPENINGS FROM 120mm (4'-0") CLEAR TO 1800mm (6'-0") CLEAR:</div><div>2.1. ONE ANGLE 125 x 90 x 8 LONG LEG VERTICAL (5 x 3 1/2" x 5/16") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.</div><div>OR</div><div>2.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-19M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.</div><div>3. ALL LINTELS TO BEAR 150mm (6") MINIMUM AT EACH END ON SOLID MASONRY, UNLESS SHOWN OTHERWISE.</div><div>4. PAIRS OF LINTEL ANGLES ARE TO BE BOLTED OR WELDED TOGETHER, PRIOR TO SHIPMENT, AT MAXIMUM 450mm (18") CENTRES.</div><div>5. MASONRY LINTEL BLOCKS MAY ONLY BE USED IN LOAD-BEARING WALLS WITH PERMISSION AND MUST BE FILLED WITH 20 MPa CONCRETE. MORTAR IS NOT ACCEPTABLE AND WILL BE REJECTED.</div><div>6. STEEL LINTELS ARE TO BE SUPPLIED BY STEEL CONTRACTOR BUT PLACED BY GENERAL CONTRACTOR OR MASONRY SUB- CONTRACTOR.</div><div>7. STEEL CONTRACTOR TO SUPPLY ALL NECESSARY DIRECTIONS REQUIRED FOR PLACING STEEL LINTELS.</div><div>8. WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ON THE STRUCTURAL DRAWINGS EACH AND EVERY LINTEL OVER DOORS, MECHANICAL AND ELECTRICAL SERVICES, RECESSES AND POCKETS ETC., THROUGH LOAD-BEARING MASONRY WALLS, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE AND SUPPLY ALL LINTELS REQUIRED THROUGH ALL WALLS (INCLUDING NON-LOAD BEARING WALLS) THROUGHOUT THE PROJECT, UNLESS OTHERWISE DIRECTED. LINTELS SHALL CONFORM TO THE ABOVE REQUIREMENTS.</div><div>9. REFER ALSO TO TYPICAL DETAILS.</div></div></div> <div><div><div>1. DESIGN, FABRICATION, HANDLING AND ERECTION SHALL CONFORM TO THE FOLLOWING STANDARDS:</div><div>1.1.a. CSA S136</div><div>1.1.b. CSSBI 10M STANDARD FOR STEEL ROOF DECK</div><div>1.1.c. CSSBI 12M STANDARD FOR COMPOSITE STEEL DECK</div><div>1.1.d. ASTM A653 SPECIFICATIONS FOR STEEL SHEET, ZINC COATED (GALVANIZED) OR ZINC-IRON ALLOY COATED (GALVANNEAL)</div><div>BY THE HOT DIP PROCESS.</div><div>1.1.e. WELDS SHALL CONFORM TO CSA STANDARD W59 AND BE PERFORMED BY A FABRICATOR CERTIFIED TO CSA STANDARD W47.1</div><div>1.2. THE STEEL DECK SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. SHOP DRAWINGS AND CALCULATIONS BEARING THE STAMP AND SIGNATURE OF THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION.</div><div>1.3. NO HANGERS OR BRACKETS SHALL BE HUNG DIRECTLY FROM THE FLOOR OR ROOF DECK. ALL POINT LOADS MUST BE APPLIED DIRECTLY TO STRUCTURAL STEEL FRAMING UNLESS OTHERWISE SHOWN OR APPROVED BY THE STRUCTURAL CONSULTANT.</div><div>1.4. WHEREVER STRUCTURAL FRAMING PERMITS, STEEL DECK SHALL BE DESIGNED AND FABRICATED TO SPAN CONTINUOUSLY OVER AT LEAST 4 SUPPORTS (3 SPANS), PROVIDE AN ADEQUATE INCREASE IN THICKNESS OF METAL TO COMPENSATE FOR CONTINUITY WHEREVER FEWER SUPPORTS MAY OCCUR. END LAPS TO BE 50mm (2") MIN. AND BE LOCATED OVER SUPPORTS.</div><div>1.5. ROOF DECK SHALL BE FORMED WITH INTEGRAL RISBS IN ORDER TO SAFELY SUPPORT THE LOADS GIVEN ON THE DRAWINGS OVER THE SPANS REQUIRED. DECK THICKNESS GIVEN ON DRAWINGS IS MINIMUM ASSUMED ALLOWABLE THICKNESS AND MUST BE DESIGNED BY THE DECK SUPPLIER.</div><div>1.5.a. DEFLECTION OF ROOF DECK UNDER LIVE OR SNOW LOAD ONLY SHALL NOT EXCEED 1/300TH OF SPAN.</div><div>1.6. DESIGN AND DETAIL ON SHOP DRAWINGS ALL CONNECTIONS TO SUPPORTING MEMBERS FOR ALL COMBINATIONS OF DIAPHRAGM SHEAR AND UPLIFT FORCES ACTING ON THE ROOF DECK.</div><div>2. PRODUCTS</div><div>2.1. UNLESS OTHERWISE NOTED ROOF DECK SHALL BE FORMED OF METALLIC COATED SHEET STEEL CONFORMING TO ASTM A653/ A653M, STRUCTURAL QUALITY GRADE '275 WITH A 275 ZINC COATING (GALVANNEAL).</div><div>2.2. UNLESS OTHERWISE NOTED DECK SHALL BE SINGLE FLUTED ELEMENT WITH INTEGRAL RISBS OF DEPTH AND MIN. BASE NOMINAL THICKNESS (BNT) AS NOTED ON THE DRAWINGS. DECK SHALL HAVE INTERLOCKING EDGE JOINTS BETWEEN PANELS. (MIN. BNT: 0.76mm (0.30").</div><div>2.3. COVER PLATES, CELL CLOSURES, FLASHINGS AND REINFORCING STIFFENERS FOR UNSUPPORTED EDGES TO BE SUPPLIED OF SIMILAR MATERIAL AND ZINC COATING TO THAT FOR DECK, UNLESS NOTED.</div><div>2.4. PRIMER PAINT TO BE ZINC RICH, READY MIX TO CAN CSSBI-1181 FOR FIELD "TOUCH-UP" OF WELD BURNS AFTER DECK IS INSTALLED.</div><div>2.5. UNLESS OTHERWISE SHOWN FOR OPENINGS THROUGH ROOF DECK FROM 150mm (6") TO 180" ACROSS THE FLUTES THE DECK SUPPLIER SHALL PROVIDE NOT LESS THAN A 5x16x16 x 4 ANGLE (2'x2x 1/4"), REINFORCEMENT TO FRAME ACROSS EACH SIDE OF THE OPENING PERPENDICULAR TO THE FLUTES, WELDED TO AT LEAST TWO FLUTES EACH SIDE OF THE OPENING.</div><div>2.6. FOR ROOF OPENINGS OVER 450mm (18") ACROSS THE FLUTES AND FOR AREAS OF CONCENTRATED LOAD, REINFORCE IN ACCORDANCE WITH STRUCTURAL FRAMING DETAILS SHOWN ON PLANS OR TYPICAL DETAILS.</div><div>3. EXECUTION</div><div>3.1. SUPPLY AND PLACE STEEL PACKING AS REQUIRED TO PRODUCE AN EVEN BEARING PRESSURE AT SUPPORTS.</div><div>3.2. FOR STEEL ROOF DECK, UNLESS OTHERWISE DETERMINED DURING THE DIAPHRAGM AND UPLIFT CONNECTION DESIGN OR SPECIFIED OTHERWISE IN THE SPECIFICATIONS OR ENGINEERING DRAWINGS, THE MINIMUM ATTACHMENT OF THE DECK TO THE BEARING SURFACES AND THE MINIMUM SIDE LAP CONNECTIONS BETWEEN DECK UNITS SHALL BE:</div><div>3.2.A. FOR 38mm DEEP DECK PROFILES, CONNECT THE FIRST, THIRD, FIFTH AND SEVENTH LOW CORRUGATIONS (84 CONFIGURATION), AND EACH SUPPORT PARALLEL TO FLUTE DIRECTION AT 300mm (12") MAXIMUM CENTERS. CONNECTIONS SHALL BE MADE USING EITHER AN ARC SPOT WELD WITH 20mm (3/4") NOMINAL TOP DIAMETER, OR MECHANICALLY FASTENED USING HLT1 POWDER ACTUATED FASTENERS (X-HSN24, HLT1 X-ENP19, OR EQUIVALENT).</div><div>3.2.B. FOR 76mm DEEP DECK PROFILES, CONNECT THE FIRST, THIRD AND FIFTH LOW CORRUGATIONS (243 CONFIGURATION), AND EACH SUPPORT PARALLEL TO FLUTE DIRECTION AT 300mm (12") MAXIMUM CENTERS. CONNECTIONS SHALL BE MADE USING EITHER AN ARC SPOT WELD WITH 20mm (3/4") NOMINAL TOP DIAMETER, OR MECHANICALLY FASTENED USING HLT1 POWDER ACTUATED FASTENERS (X-HSN24, HLT1 X-ENP19, OR EQUIVALENT).</div><div>3.2.C. FOR ROOF DECKS, SIDE LAPS OF ADJACENT NESTABLE UNITS SHALL BE CRIMPED TOGETHER AT 900mm (36") CENTRES, OR FASTENED WITH HLT1 M HW SCREWS (SLC01, SLC02, OR EQUIVALENT).</div><div>3.3. INSTALL ALL POWDER ACTUATED AND SCREW FASTENERS ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.</div><div>3.4. WELD STUD SHEAR CONNECTORS THROUGH DECK WHERE REQUIRED BY DRAWINGS.</div><div>3.5. "TOUCH-UP" GALVANIZED SURFACES WITH SPECIFIED PRIMER AT WELDS AND SCRAPES, ETC., BOTH UPPER AND LOWER SURFACES.</div><div>3.6. DO NOT SUSPEND CEILING OR MECHANICAL/ELECTRICAL SERVICES FROM US OF STEEL DECK.</div><div>4. QUALITY CONTROL</div><div>4.1. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO BE ENGAGED TO CARRY OUT AND REPORT ON THE FOLLOWING INSPECTION SERVICES:</div><div>4.1.a. SECTION PROFILE, GAUGE AND STEEL GRADE.</div><div>4.1.b. ZINC COATING.</div><div>4.1.c. WELDED JOINTS.</div><div>4.1.d. BEARINGS.</div><div>4.1.e. SIDE LAP CONNECTIONS.</div><div>4.1.f. TOUCH-UP PRIMER.</div><div>4.1.g. FIELD CUTTING AND/OR ALTERATIONS.</div><div>4.2. REFER ALSO TO THE GENERAL NOTES, SPECIFICATIONS, AND TERMS OF REFERENCE FOR ADDITIONAL INFORMATION.</div></div></div>								

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 Permit
3	Jan. 9, 2025	Re-Issued for Permit
4	Jan. 30, 2025	Issued for Client Review - Pre Tender
5	Sept. 19, 2025	Issued for Building Permit
6	Oct. 8, 2025	Issued for Tender

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 W89 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 300 W</div> <div>2.1.2. HSS SECTIONS - GRADE 350W (CLASS C UN)</div> <div>2.1.3. W/WF SHAPES, WT SHAPES AND W SHAPES, CHANNELS, ANGLES, - GRADE 350W</div> <div>2.2. BOLTS FOR CONNECTIONS TO CONFORM TO ASTM F1325/3125M, GRADE A325, 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 A563 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 CISC/CPMA 1.73a OR CISC/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 500g/sq.m UNLESS OTHERWISE SPECIFIED.</div> <div>3. EXECUTION</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. 2000 (8'-0") CENTRES) (* NOTE: USE BACK-UP W/TH THE 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 1/8X7/6X6-4MIN) ANGLE SEATS FOR ALL STEEL DECK AT LOCATIONS WHERE THE CONNECTION TO SUPPORTING FRAMING IS INTERRUPTED (E.G. 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 1:1000 MAX. 25 mm (1/8" IN 10'-0" MAX. 1") OTHER PIECES 1:500 (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>		<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>																																																																																																																																																																																																																																																																																																																																																																																																																							
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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	10M	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>2290</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>350</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. 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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																																																																																																																																																																																																																																																																																																																																																																																																																
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60MPa	300	300	370	300	490	380	760	590	910	700	1060																																																																																																																																																																																																																																																																																																																																																																																																																
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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)		GENERAL NON-EXPOSED CONCRETE
PERMANENTLY EXPOSED TO SOIL		ALL SIZES	GREATER OF 60mm OR 2.0l	GREATER OF 40mm OR 1.5l	
CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL (J/S OF FOOTINGS)		ALL SIZES	75		
TABLE NOTES					
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.					

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
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
M10A-TYPICAL LATERAL SUPPORT AT PARTITIONS	S3-06
CFW02A TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS	S3-03
C02A COMPRESSION-TENSION LAP LENGTHS PART 1 OF 2	S3-02
C02B TENSION LAP LENGTHS PART 2 OF 2	S3-02
CFW02B TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS	S3-03
C01 TYPICAL CONCRETE COVER TABLE	S3-02
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
SR03-CHANGE OF DECK DIRECTION	S3-05
SB02A-ERECTION TOLERANCES FOR STRUCTURAL STEEL BEAMS	S3-04
SB02B-ERECTION TOLERANCES FOR STRUCTURAL STEEL BEAMS	S3-04
SM01-DECK SUPPORT PLATES/ANGLES	S3-04
A03.2-CAST-IN-PLACE CONCRETE NOTES	S3-01
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	S3-06
SR08-VALLEY AND HIP FRAMING DETAILS	S3-06

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Stephenson Engineering, a company of Salas O'Brien



PROJECT



COMFORT STATION JACK
DARLING MEMORIAL PARK

1180 LAKESHORE RD. W, MISSISSAUGA, ON. L5H 3G7

DRAWING

GENERAL NOTES AND TYPICAL DETAILS

PROJECT NO.20240909

PROJECT DATEIssue Date

DRAWN BYRP

CHECKED BYCG/JG

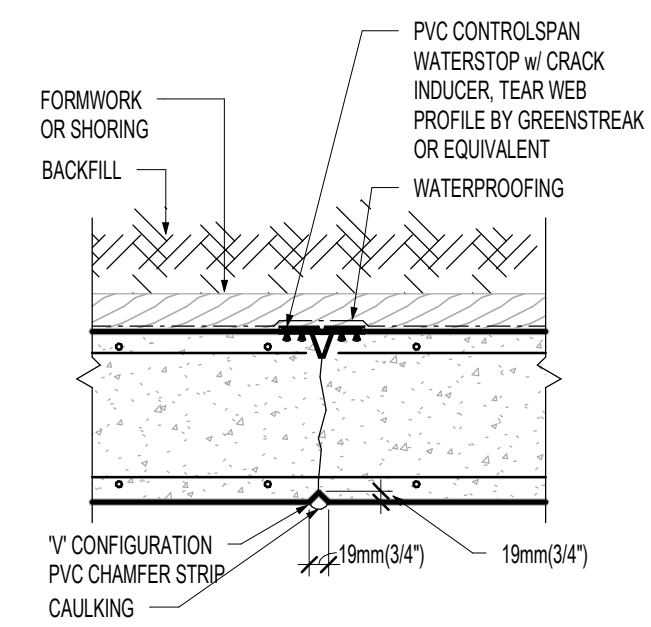
SCALE1 : 1

DRAWING NO.

S3-02

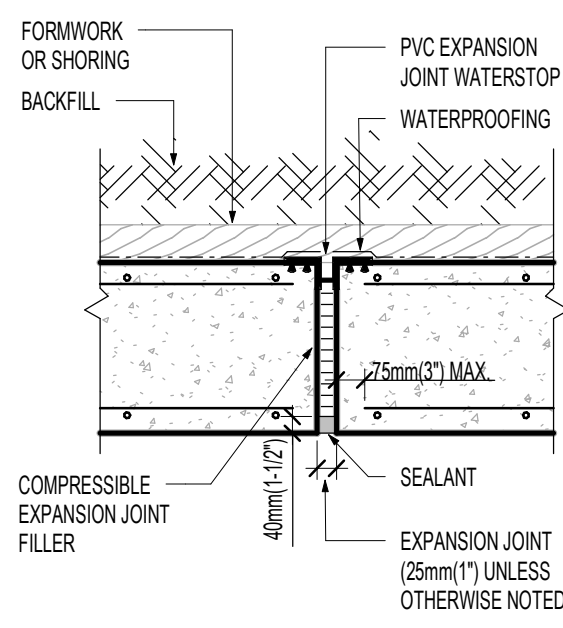
TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS

CFW02A



- NOTES:
1. EVERY OTHER HORIZONTAL BAR TO BE CUT ACROSS CONTROL JOINT ON BOTH INSIDE AND OUTSIDE FACES.
 2. CONTROL JOINTS ARE NOT TO BE PLACED IN AIR SHAFTS.

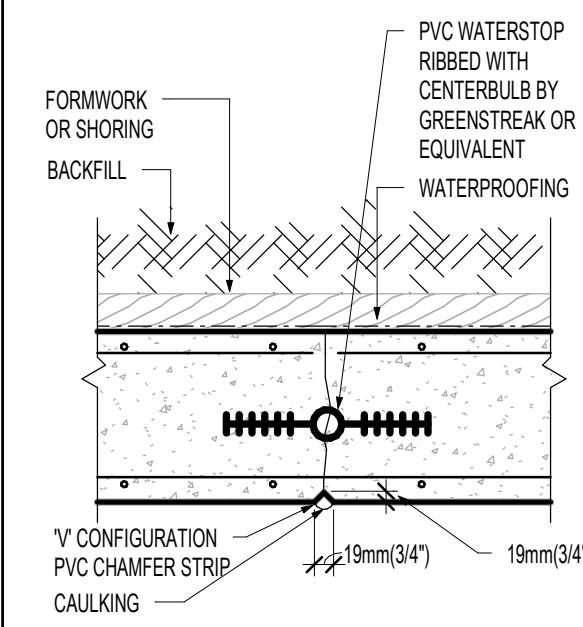
**VERTICAL CONTROL JOINT
AT EXTERIOR CONCRETE WALL**
JOINTS @ 4500mm (15'-0") CENTERS MAX.



**VERTICAL EXPANSION JOINT
AT EXTERIOR CONCRETE WALL**
FOR LOCATIONS SEE PLAN

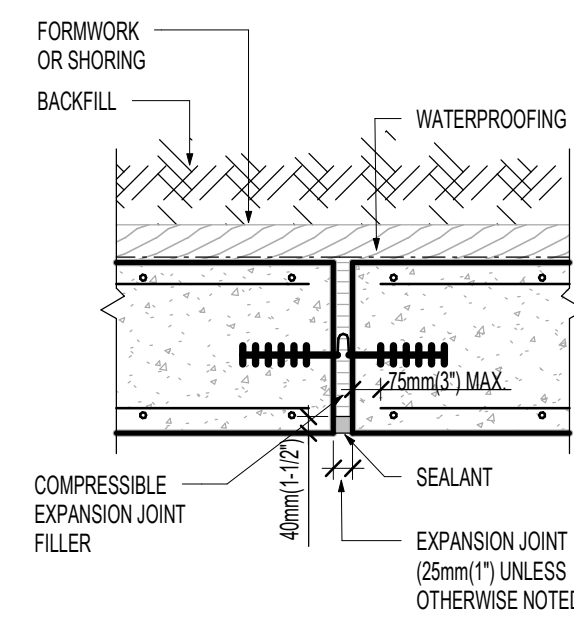
TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS

CFW02B



- NOTES:
1. EVERY OTHER HORIZONTAL BAR TO BE CUT ACROSS CONTROL JOINT ON BOTH INSIDE AND OUTSIDE FACES.
 2. CONTROL JOINTS ARE NOT TO BE PLACED IN AIR SHAFTS.

**VERTICAL CONTROL JOINT
AT EXTERIOR CONCRETE WALL**
JOINTS @ 4500mm (15'-0") CENTERS MAX.

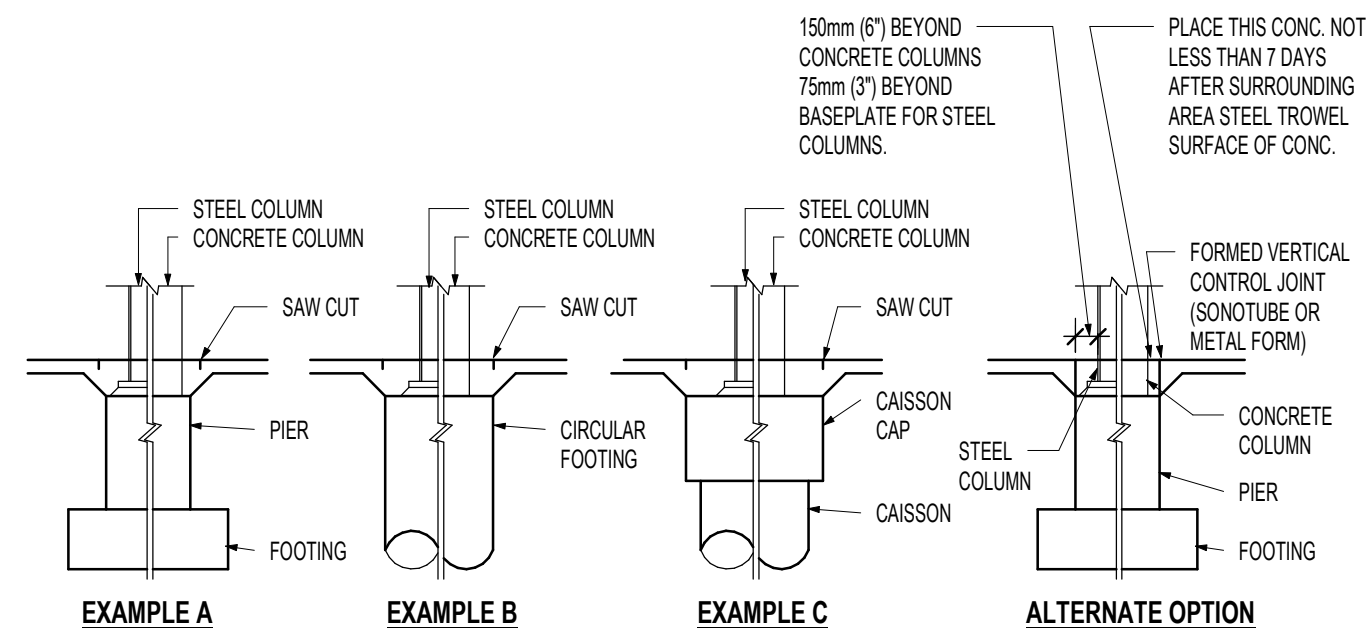
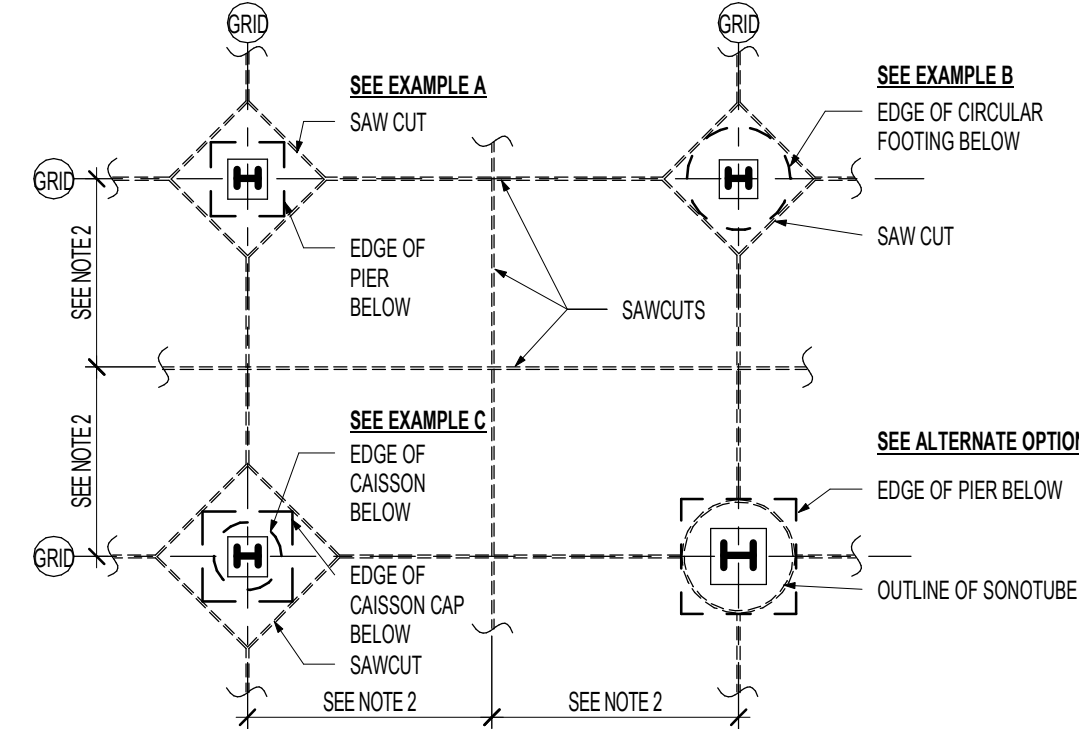


**VERTICAL EXPANSION JOINT
AT EXTERIOR CONCRETE WALL**
FOR LOCATIONS SEE PLAN

SLAB ON GRADE DETAILS

CG01A

(READ IN CONJUNCTION WITH DETAIL CG01B, CG01C)

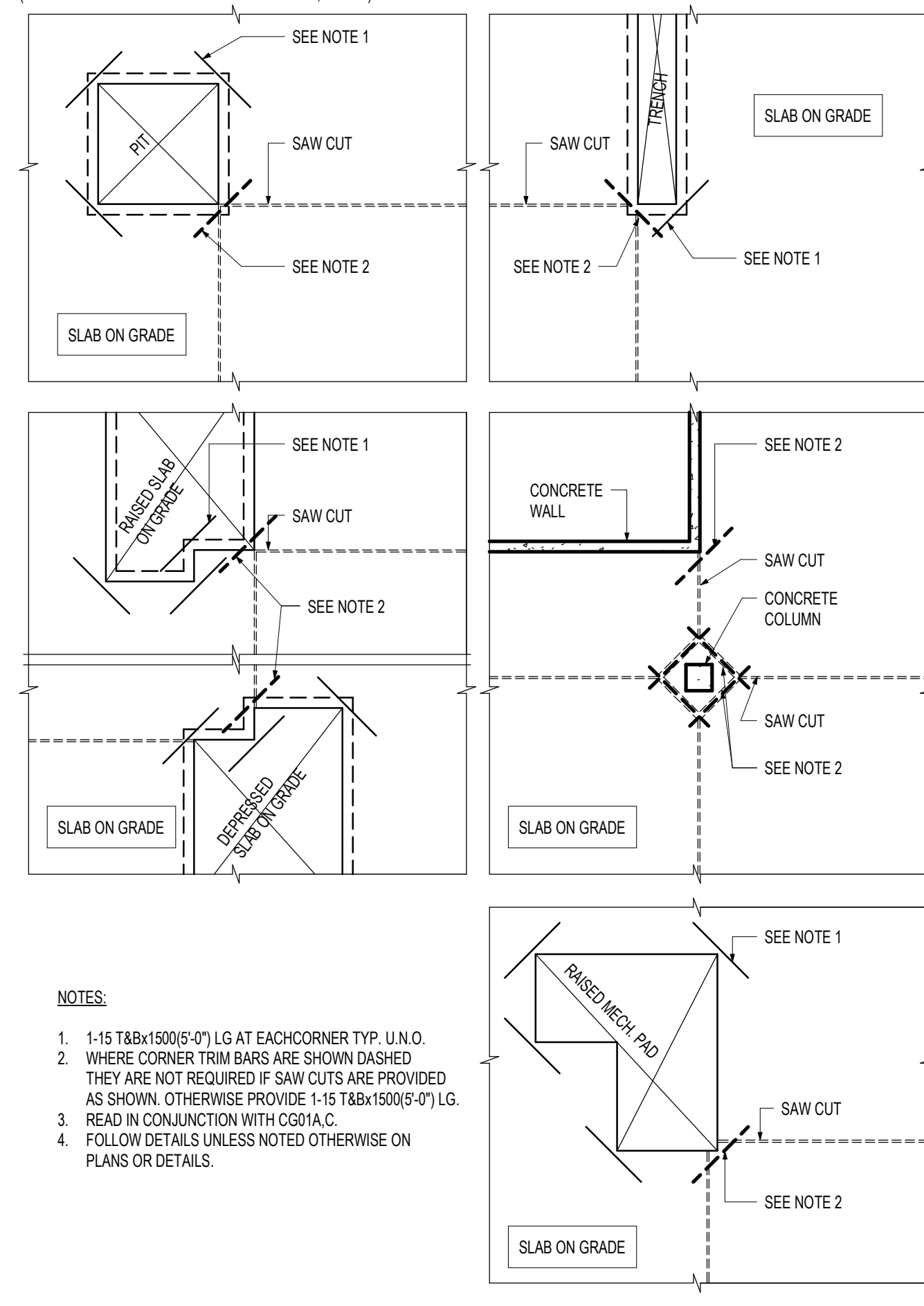


- NOTES:
1. SAWCUTTING TO BE DONE AS SOON AS POSSIBLE AFTER SLAB IS PLACED. (MAX. 24 HOURS).
 2. JOINTS TO BE AT MAX. 24x SLAB THICKNESS FOR MAXIMUM AGGREGATE SIZE SMALLER THAN 19mm (3/4") AND 30 TIMES SLAB THICKNESS FOR AGGREGATE SIZE LARGER THAN 19mm (3/4") BUT NOT MORE THAN 4500mm (14'-9").
 3. MAXIMUM 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

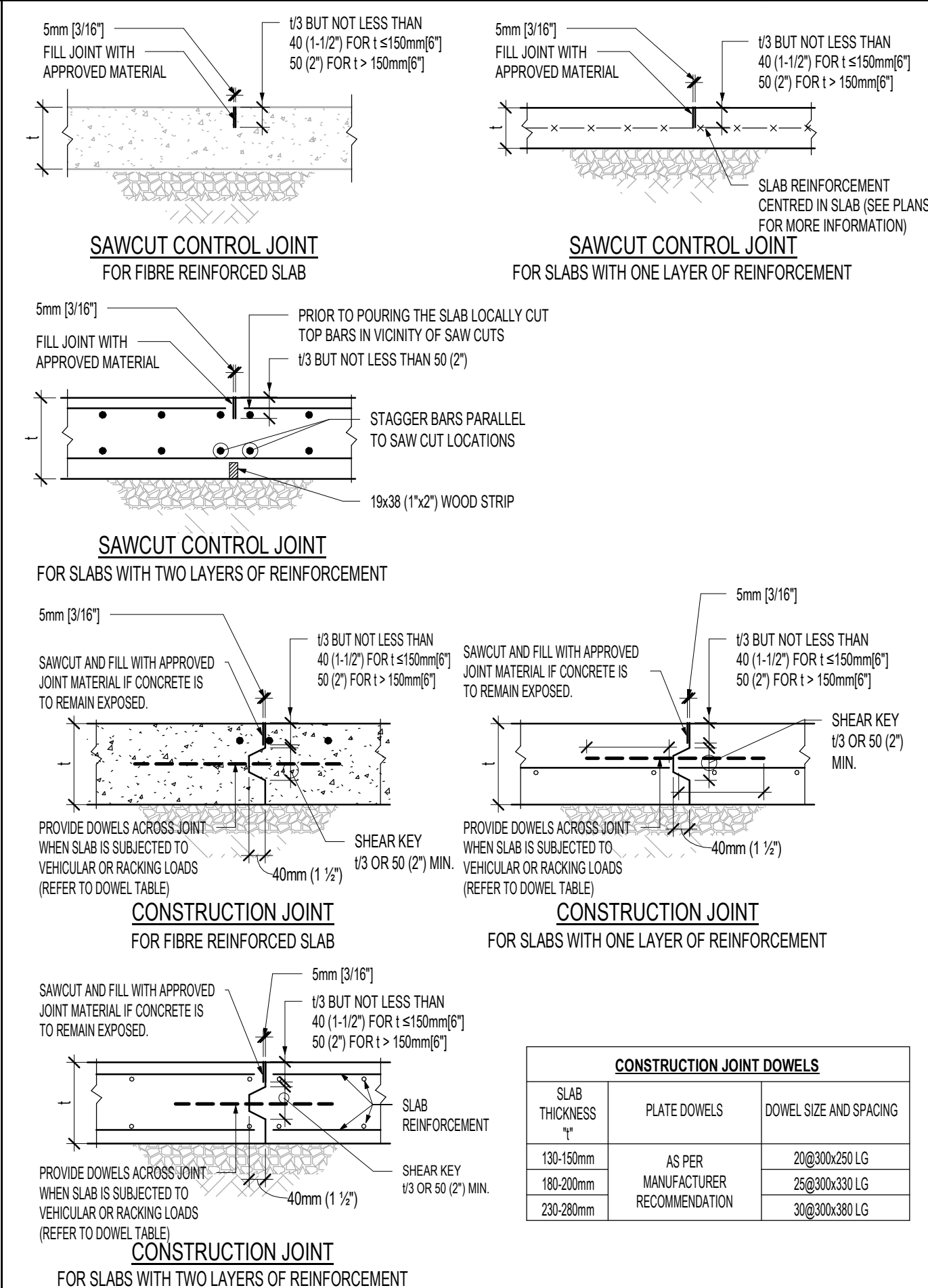
(READ IN CONJUNCTION WITH DETAILS CG01A, CG01C)



- NOTES:
1. 1-15 T&Bx1500(5'-0") LG AT EACH CORNER TYP. U.N.O.
 2. WHERE CORNER TRIM BARS ARE SHOWN DASHED THEY ARE NOT REQUIRED IF SAW CUTS ARE PROVIDED AS SHOWN. OTHERWISE PROVIDE 1-15 T&Bx1500(5'-0") LG.
 3. READ IN CONJUNCTION WITH CG01A.C.
 4. FOLLOW DETAILS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

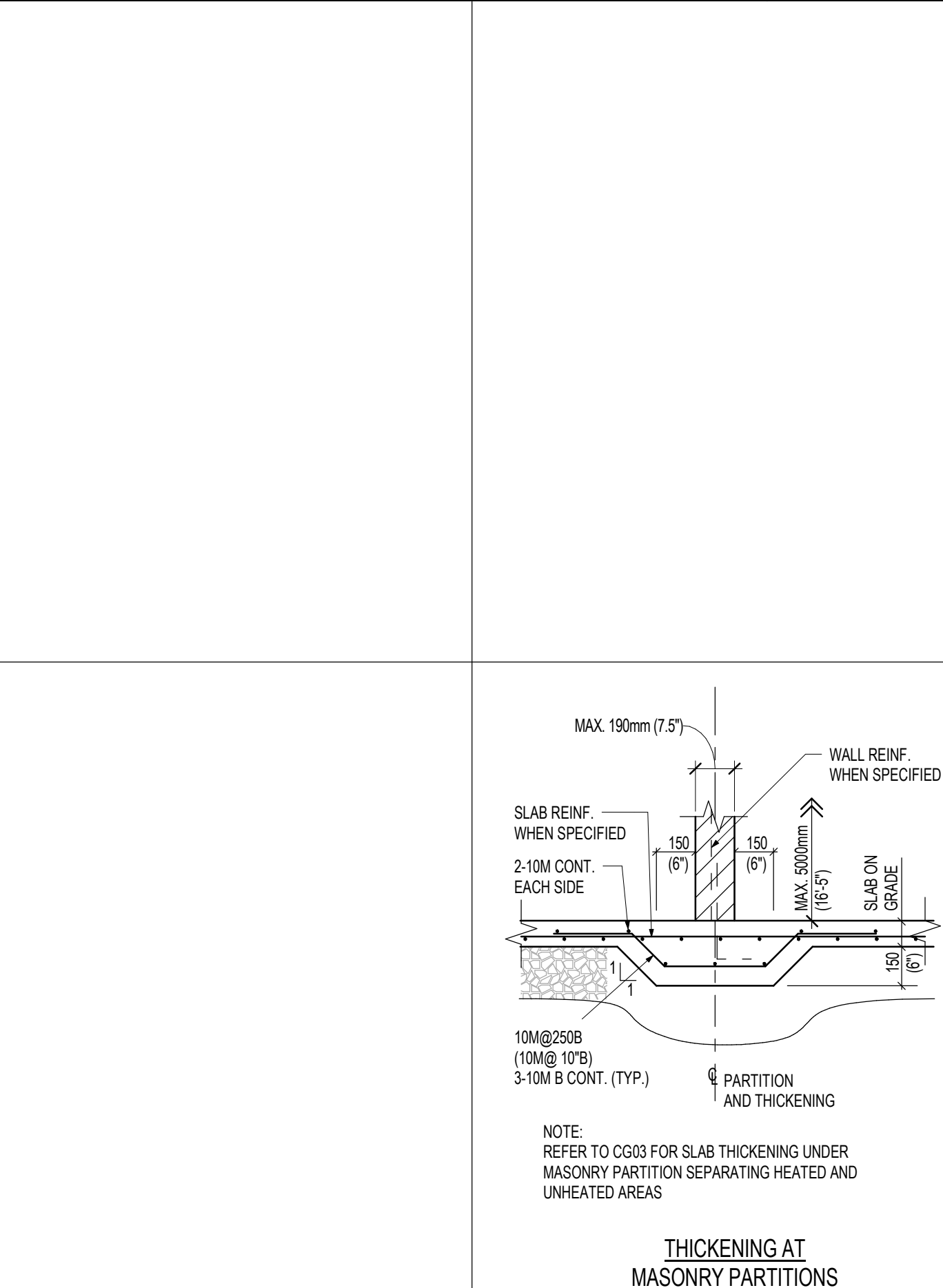
SLAB ON GRADE DETAILS

CG01C



THICKENING OF SLAB ON GRADE

CG02



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PROJECT



COMFORT STATION JACK
DARLING MEMORIAL PARK

1180 LAKESHORE RD. W., MISSISSAUGA, ON. L5H 3G7

DRAWING

TYPICAL DETAILS

PROJECT NO. 20240909

PROJECT DATE Issue Date

DRAWN BY RP

CHECKED BY CG/JG

SCALE 1 : 1

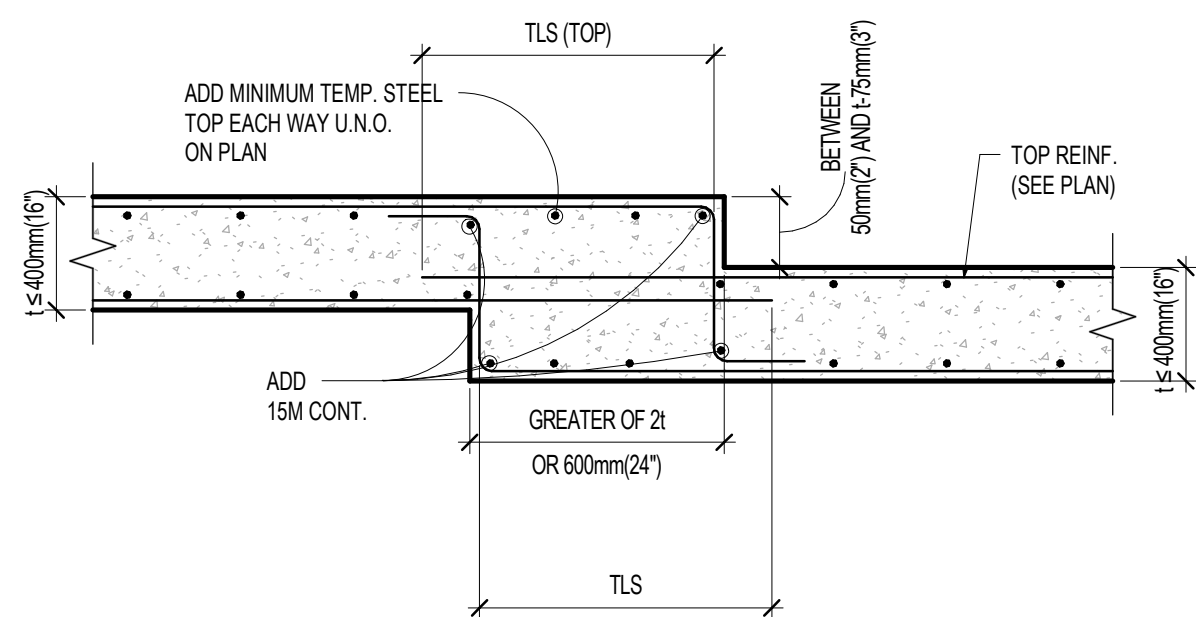
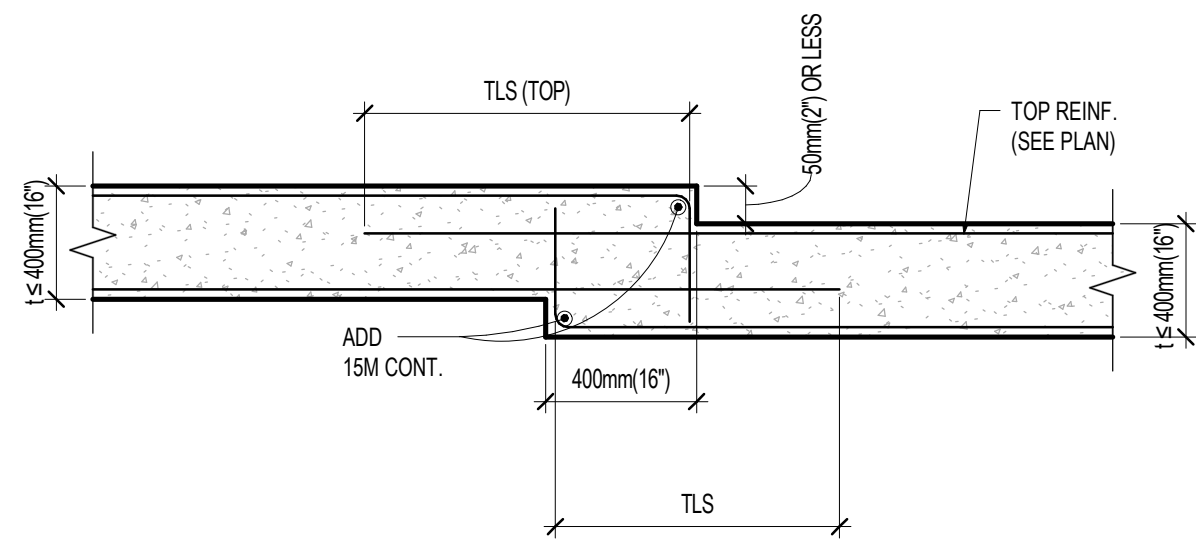
DRAWING NO.

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"))

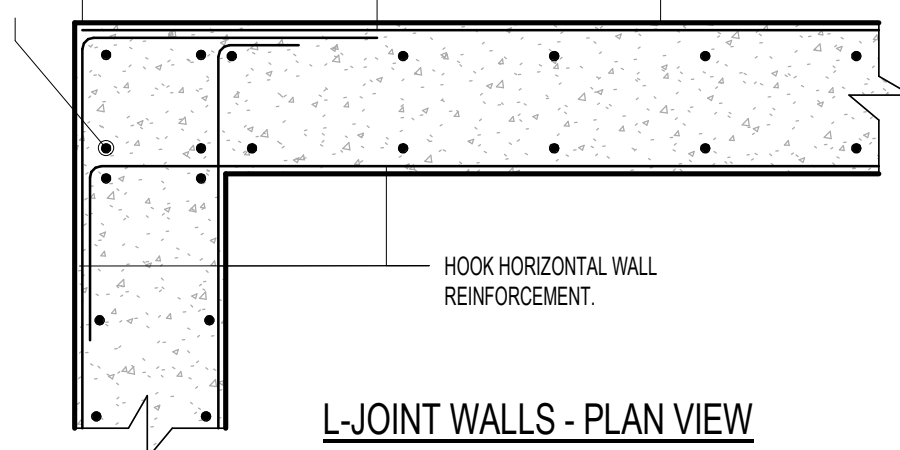
NOTE: FOR SLAB DEPRESSIONS GREATER THAN 1-75mm(3") SEE CS10.
SEE C02A AND C02B FOR TENSION LAP SPLICE (TLS) LENGTHS

TYPICAL JOINTS IN CONCRETE WALLS

(NOT SPECIFIED AS SHEARWALLS)

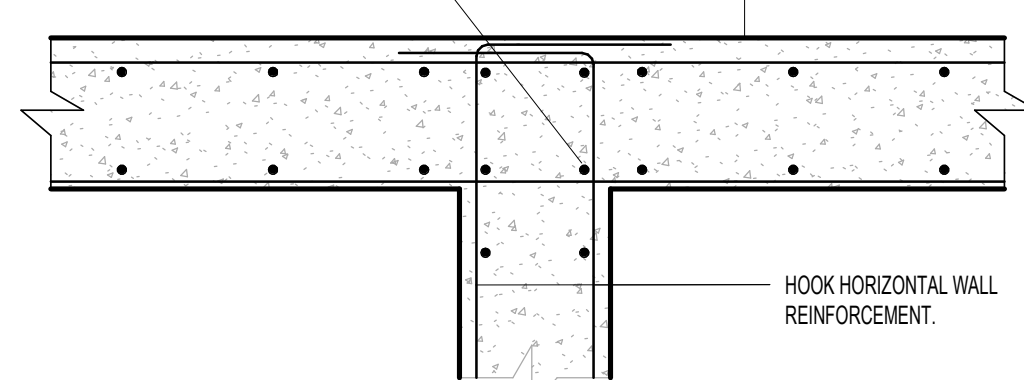
CW01

PROVIDE MINIMUM 4 VERTICAL BARS IN CORNER. BAR SIZE TO MATCH LARGEST WALL BAR UNLESS NOTED OTHERWISE. (MIN 1/4" (15M))



L-JOINT WALLS - PLAN VIEW

PROVIDE MINIMUM 4 VERTICAL BARS INSIDE ZONE. BAR SIZE TO MATCH LARGEST WALL BAR UNLESS NOTED OTHERWISE. (MIN 1/4" (15M))

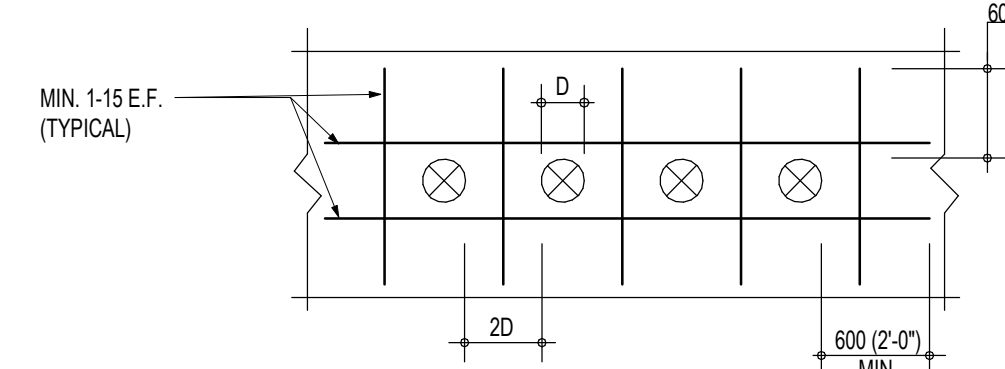
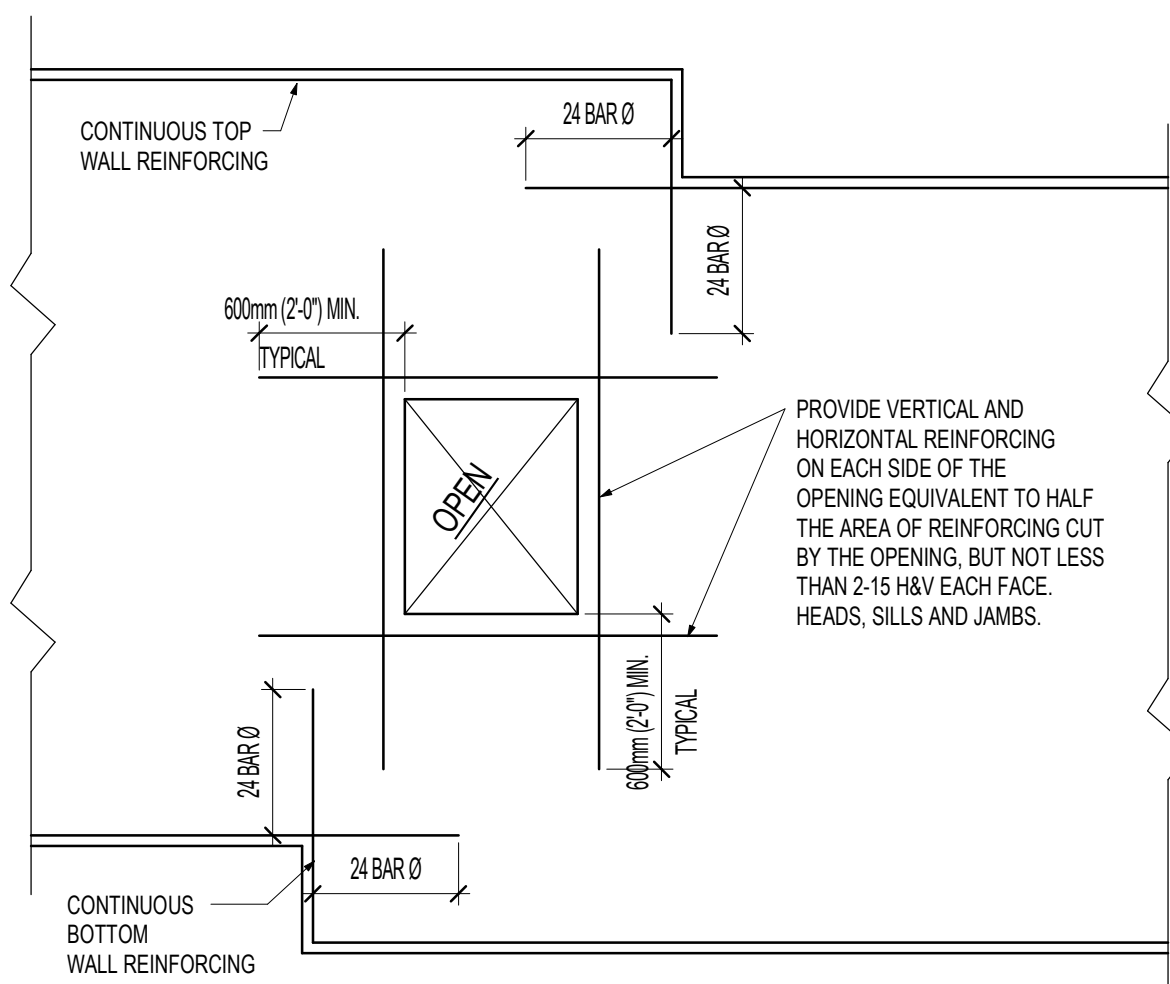


T-JOINT WALLS - PLAN VIEW

TYPICAL DETAIL OF OPENINGS IN CONCRETE WALL

CW02

(NOT SPECIFIED AS SHEARWALLS)



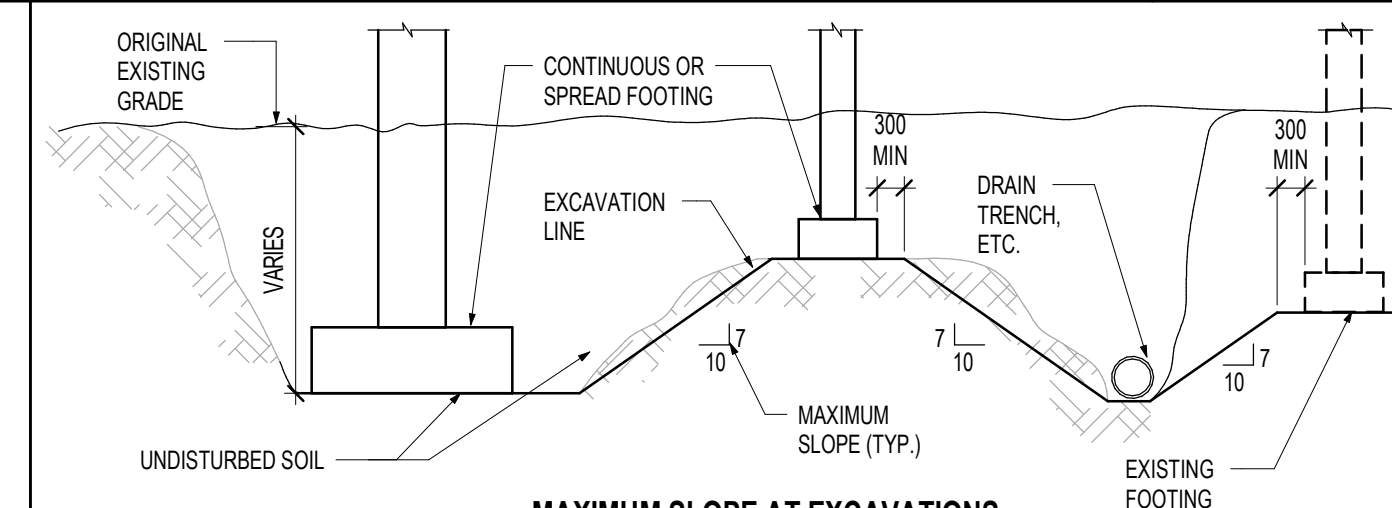
D = DIAMETER OF OPENING

TYPICAL DETAIL OF ADDITIONAL REINFORCEMENT AT WALL OPENINGS

(TYPICAL UNLESS OTHERWISE SHOWN ON DRAWINGS)

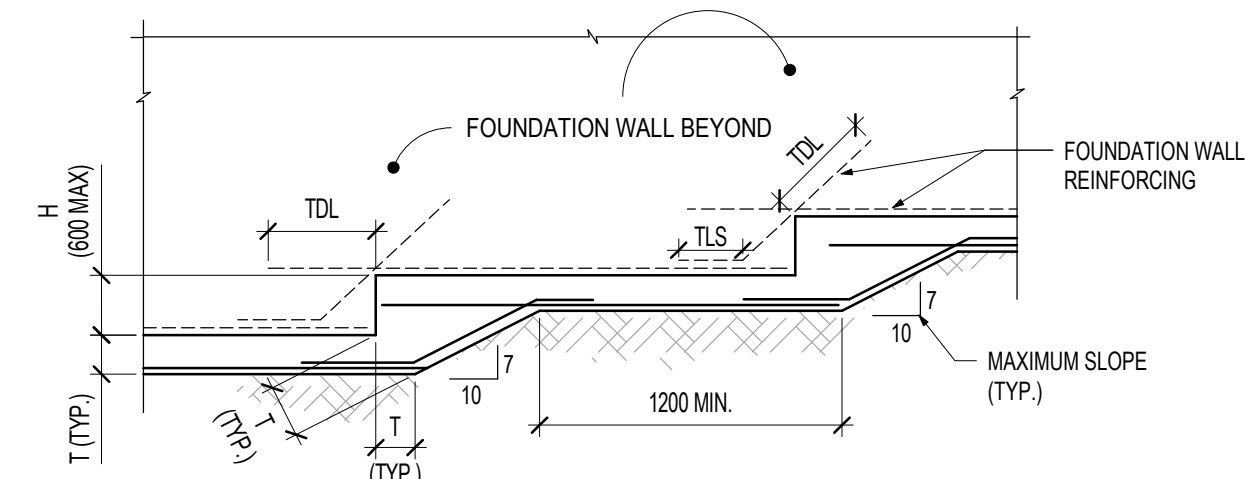
STEPPED FOUNDATION AND CONSTRUCTION EXCAVATION

F09



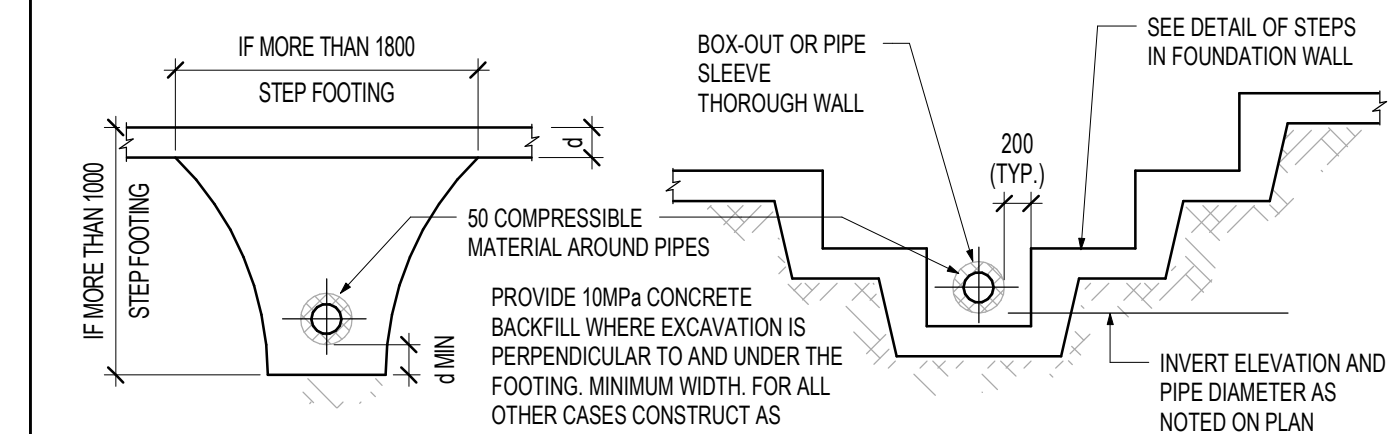
MAXIMUM SLOPE AT EXCAVATIONS

- 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



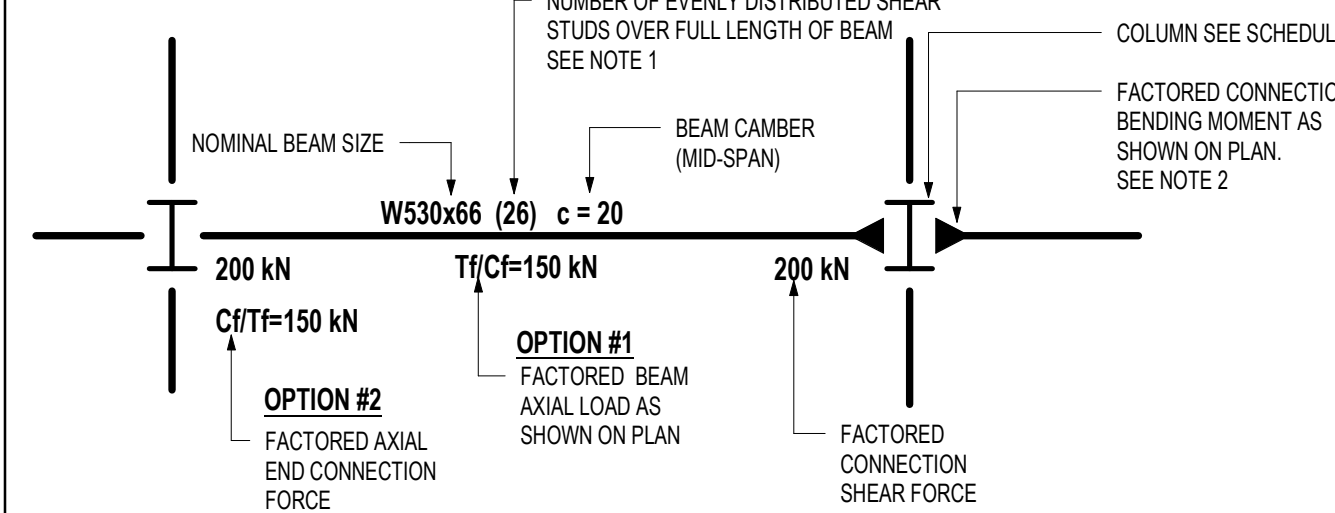
PIPES UNDER CONTINUOUS WALL FOOTINGS

PIPES REQUIRING STEPPED FOOTINGS

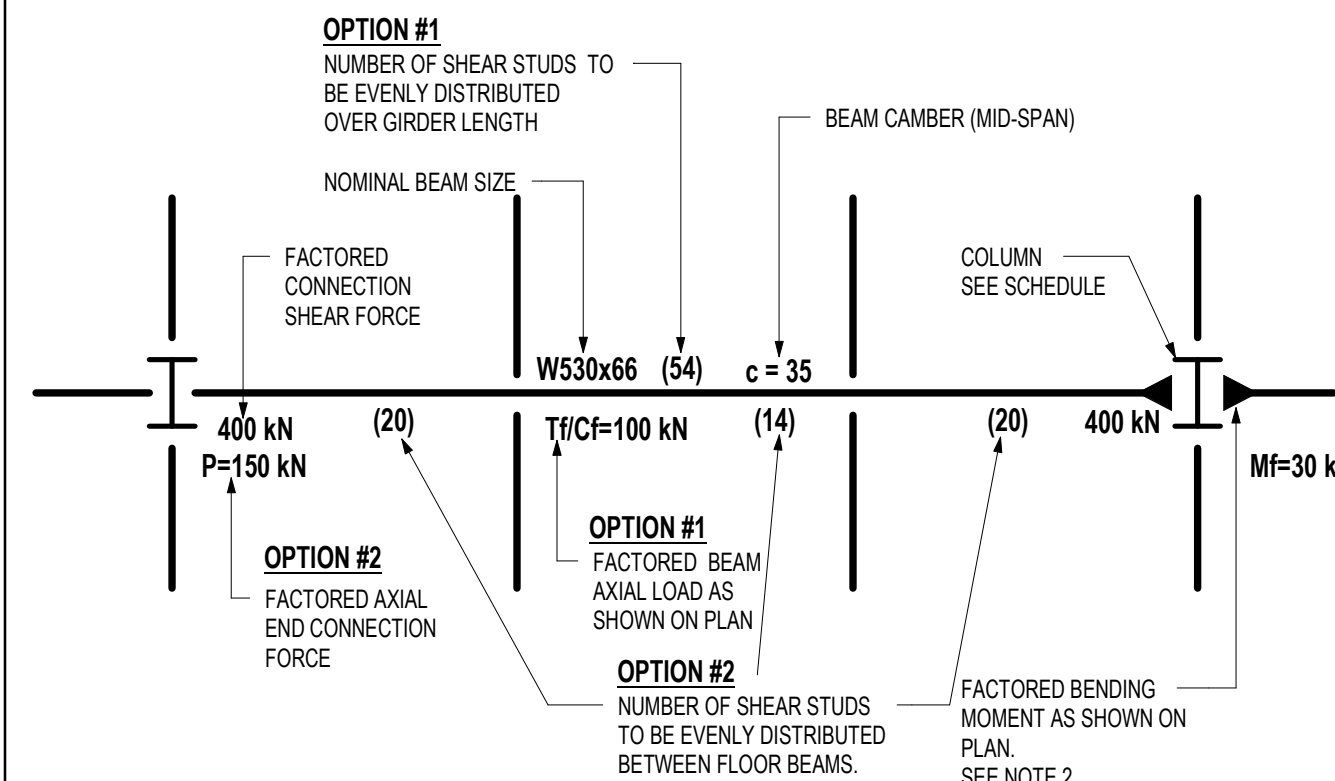
STEEL BEAM AND GIRDER DESIGNATIONS

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.

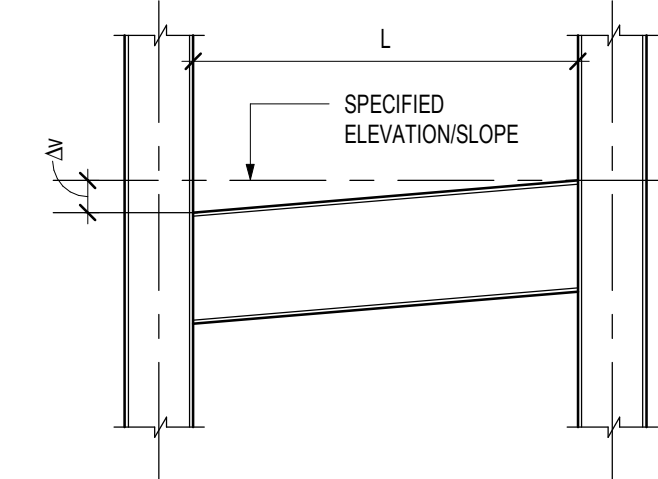
ERECTION TOLERANCES FOR STEEL BEAMS

SB02A

(READ IN CONJUNCTION WITH SB02B)

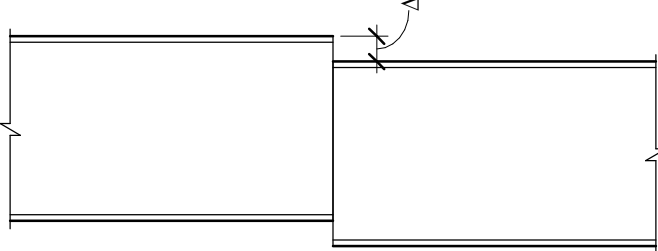
1. VERTICAL DEVIATION FROM SPECIFIED ELEVATION/SLOPE.

FLOOR BEAMS:	$\Delta v = \pm 10 \text{ mm } (3/8") \text{ OR } L/500$
MEMBERS WITH ADJUSTABLE CONNECTIONS:	$\Delta v = \pm 6 \text{ mm } (1/4") \text{ OR } L/1000$



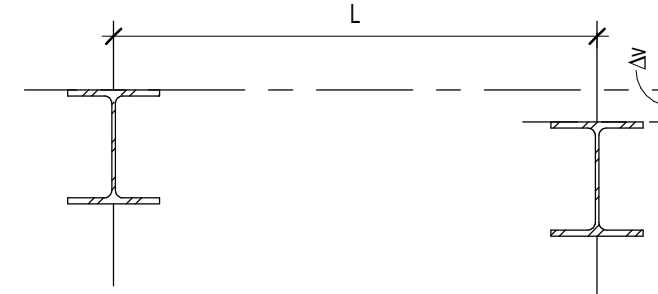
2. VERTICAL DEVIATION FROM SPECIFIED ELEVATION - ADJOINING MEMBERS

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



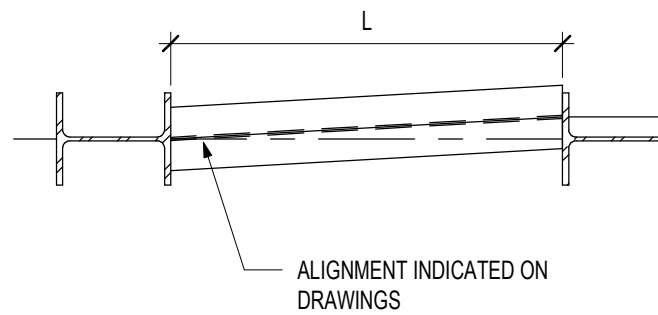
3. VERTICAL DEVIATION FROM ADJACENT BEAMS

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



4. HORIZONTAL DEVIATION FROM INDICATED POSITION

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



NOTES

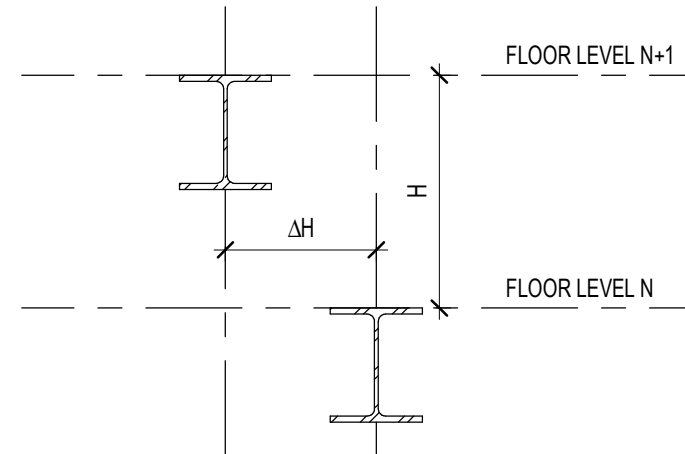
1. TOLERANCES PROVIDED IN THE DETAIL ABOVE SHALL NOT SUPERSEDE THE VALUES INDICATED IN CSA S16 AND REFERENCED DOCUMENTS.

ERECTION TOLERANCES FOR STEEL BEAMS

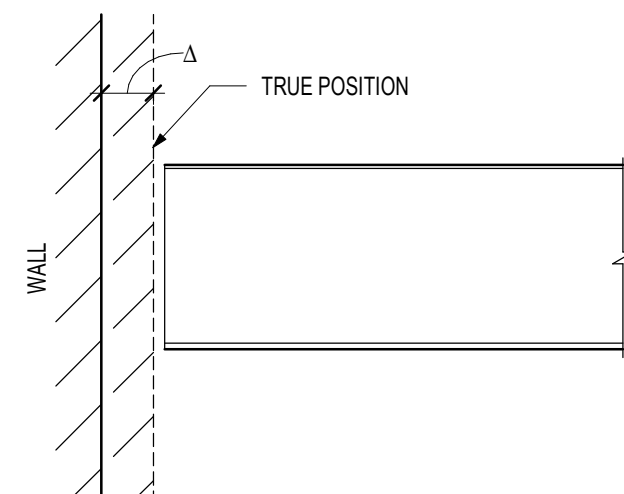
SB02B

(READ IN CONJUNCTION WITH SB02A)

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



6. HORIZONTAL DEVIATION FROM SUPPORT POINT AT VERTICAL WALL
- $\Delta = \pm 25 \text{ mm } (1")$

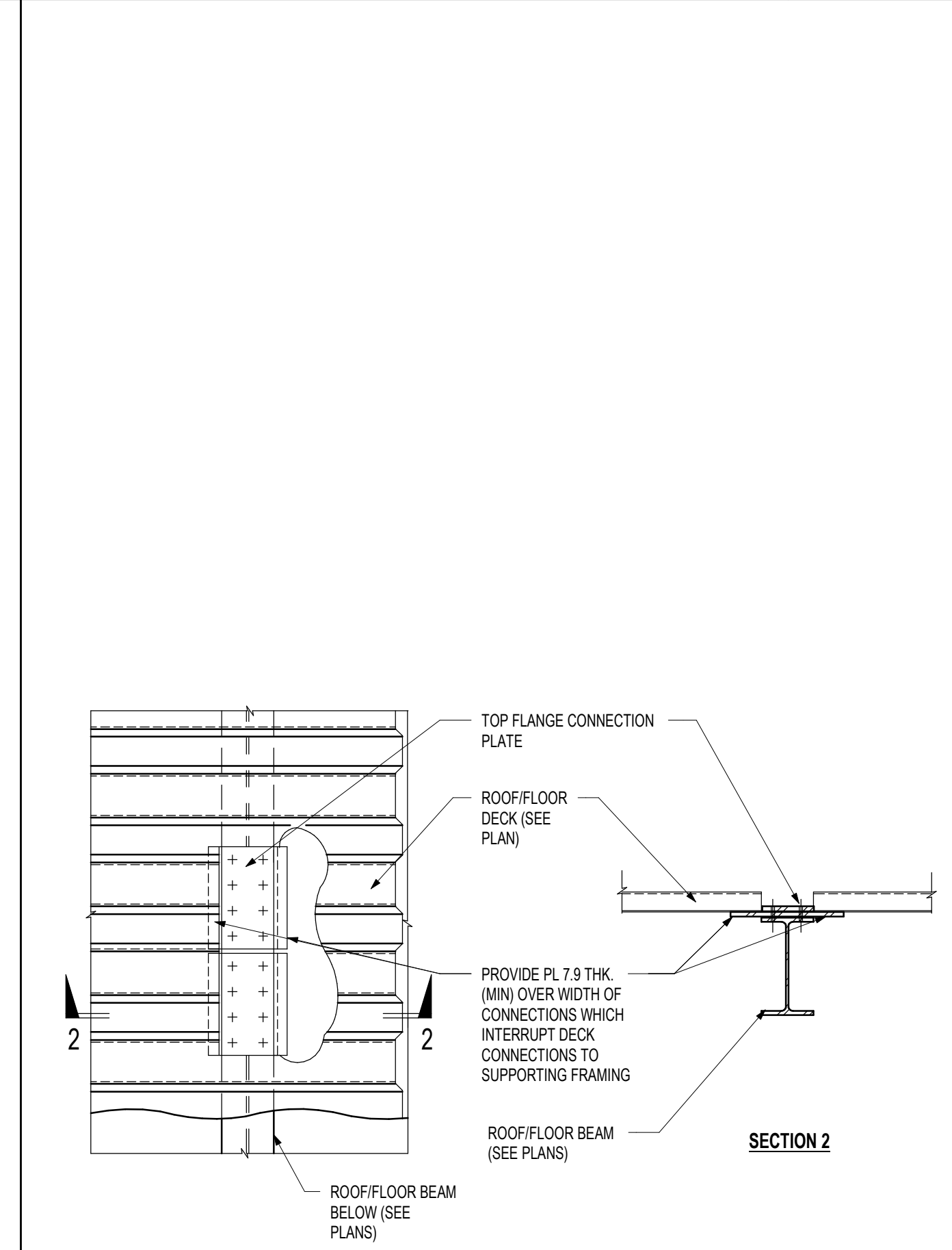


NOTES

- 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 SECTIONS.
- ERECTION TOLERANCES ARE TO BE MEASURED IN CALM WEATHER. RECORD AMBIENT TEMPERATURE AT TIME TOLERANCES ARE VERIFIED.

DECK SUPPORT PLATES/ANGLES

SM01



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DRAWING

TYPICAL DETAILS

PROJECT NO. 20240909

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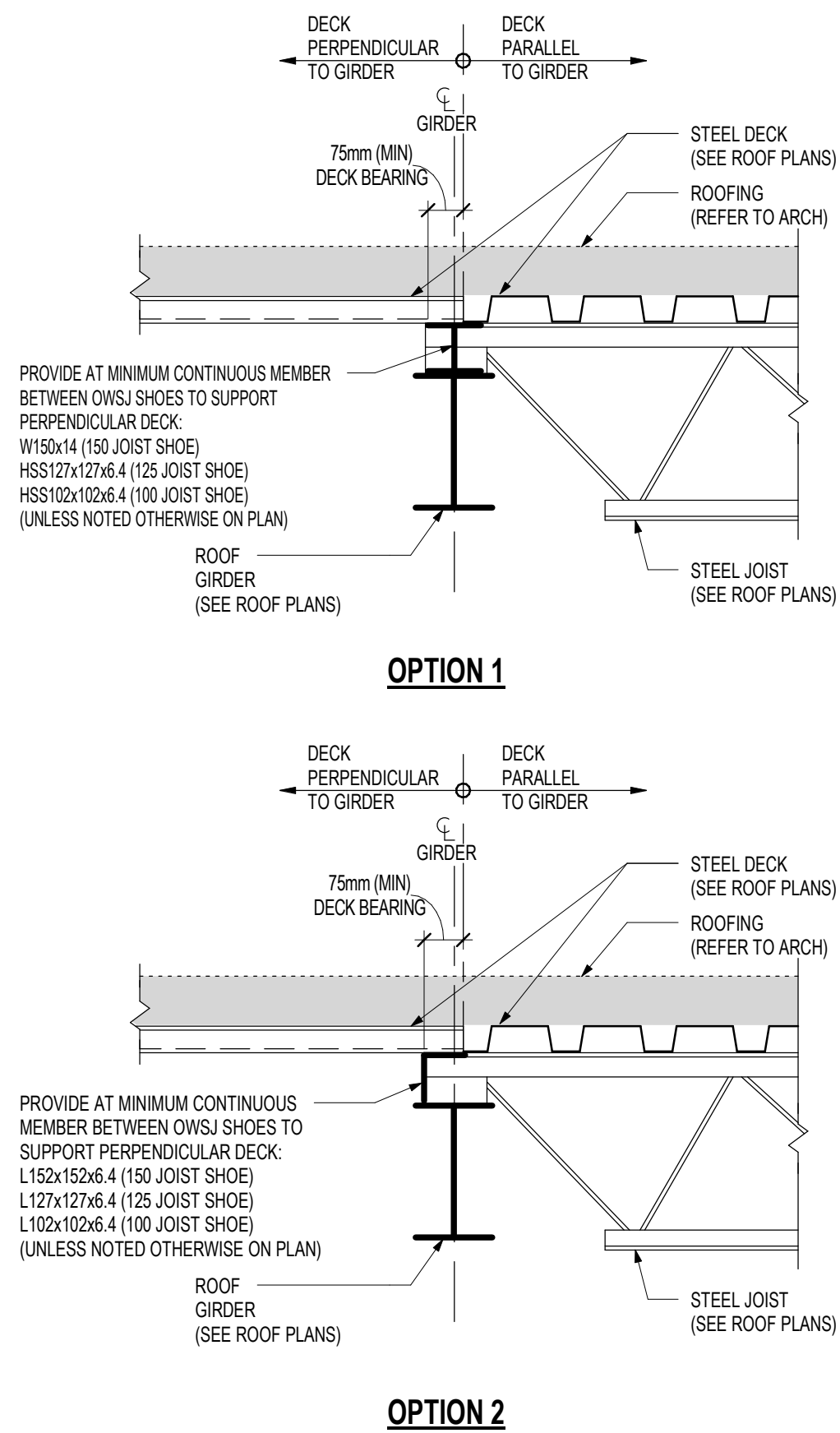
SCALE 1 : 1

DRAWING NO.

S3-04

CHANGE OF DECK DIRECTION DETAILS

SR03



NON-LOAD BEARING BLOCK WALL LINTELS

M01A

WALL OPENING CLEAR SPAN	STRUCTURAL STEEL LINTELS				
	MASONRY BLOCK THICKNESS				
	90 (4")	140 (6")	190 (8")	240 (10")	290 (12")
300mm to 500mm (12" TO 22")	75mm X 8mm PL (5"x5/16" PL)	125mm X 8mm PL (5"x5/16" PL)	175mm X 8mm PL (7"x5/16" PL)	225mm X 8mm PL (9"x5/16" PL)	275mm X 8mm PL (11"x5/16" PL)
550mm to 1200mm (22" TO 4'-0")	1-1.89x89x6.4 (LLH) OR 2-1.44x44x4.8	1-1.127x127x7.9 (LLH) OR 2-1.89x89x6.4 (LLH)	2-1.89x89x6.4	1-1.02x102x7.9 (LLH) + 1-1.27x89x6.4 (LLH)	3-1.89x89x6.4
1200mm to 1830mm (4'-0" TO 6'-0")	1-1.127x89x7.9 (LLV) OR 2-1.51x39x6.4 (LLV)	1-1.127x127x7.9 (LLV) OR 2-1.89x89x6.4 (LLV)	2-1.89x89x6.4	1-1.02x102x7.9 (LLH) + 1-1.27x89x6.4 (LLH)	3-1.89x89x6.4
1830mm to 2440mm (6'-0" TO 8'-0")	1-1.127x89x7.9 (LLV)	1-1.127x127x7.9 (LLV) OR 2-1.89x89x6.4 (LLV)	2-1.127x89x6.4 (LLV)	1-1.02x102x7.9 (LLH) + 1-1.27x89x6.4 (LLH)	3-1.127x89x6.4 (LLV)
2440mm to 3080mm (8'-0" TO 10'-0")	1-1.127x89x7.9 (LLV)	1-1.127x127x7.9 (LLV)	2-1.127x89x6.4 (LLV)	1-1.02x102x7.9 (LLH) + 1-1.27x89x6.4 (LLH)	3-1.127x89x6.4 (LLV)
3080mm to 3660mm (10'-0" TO 12'-0")	N/A	N/A	W200x27 + 175x6.4 PL BOTTOM	W200x27 + 225x6.4 PL BOTTOM	N/A

- STRUCTURAL STEEL LINTEL NOTES:
- WHEN PROVIDING MULTIPLE ANGLES SEE DIAGRAMS FOR ORIENTATION. BOLT DOUBLE ANGLES BACK TO BACK USING 16mm Ø BOLTS OR PROVIDE 6mmX50mm (1/4"x2") LONG WELDS @450mm (18") O/C STARTING AT 100mm (4") MAX FROM THE EACH END OF THE LINTEL.
 - SAWCUT WEBS OF BLOCK IN COURSE OF BLOCK OVER OPENING AS NECESSARY TO INSTALL ANGLES.
 - ALTERNATIVES PROVIDED FOR CASES WHERE EXPOSED FACE OF SINGLE ANGLE IS NOT ACCEPTABLE.

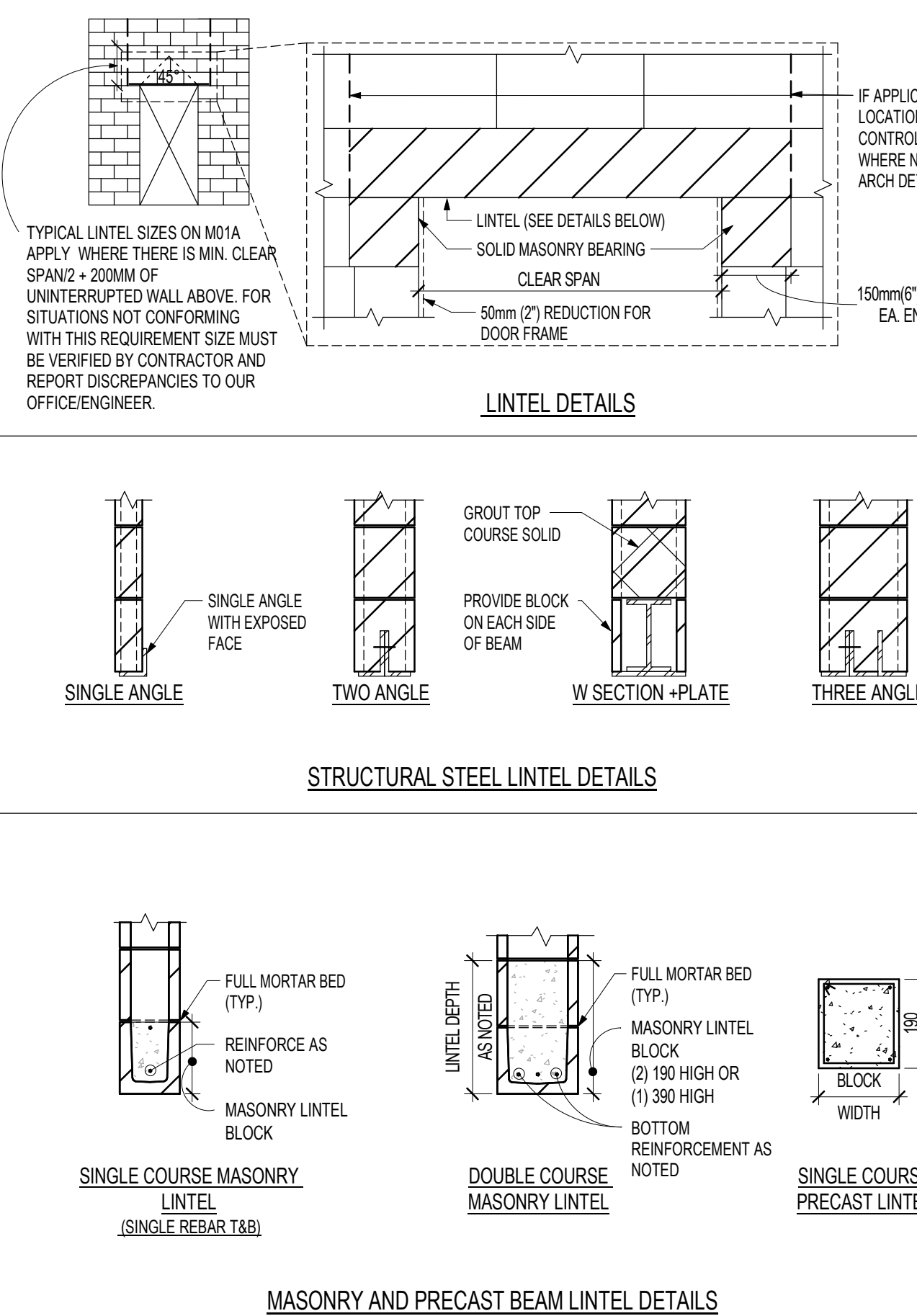
WALL OPENING CLEAR SPAN	MASONRY BEAM LINTELS				
	MASONRY BLOCK THICKNESS				
	140 (6")	190 (8")	240 (10")	290 (12")	
0mm TO 1200mm (0" TO 4'-0")	390 (16") DEEP 1-10M B	390 (16") DEEP 1-10M B	190 (8") DEEP 1-10M B	190 (8") DEEP 1-10M B	
1200mm TO 1830mm (4'-0" TO 6'-0")	390 (16") DEEP 1-10M B	390 (16") DEEP 1-10M B	390 (16") DEEP 1-10M B	390 (16") DEEP 1-15M B	
1830mm TO 2440mm (6'-0" TO 8'-0")	390 (16") DEEP 1-10M B	390 (16") DEEP 1-15M B	390 (16") DEEP 1-15M B	390 (16") DEEP 1-15M B	
2440mm TO 3080mm (8'-0" TO 10'-0")	390 (16") DEEP 1-10M B	390 (16") DEEP 1-15M B	390 (16") DEEP 1-15M B	390 (16") DEEP 3-10M B	

- MASONRY BEAM LINTEL NOTES:
- BEAM MUST BE FILLED WITH MASONRY GROUT (MORTAR IS NOT ACCEPTABLE). REFER TO M03 FOR DETAILS.
 - TEMPORARILY SHORE UNTIL GROUT HAS REACHED FULL DESIGN STRENGTH.

- GENERAL LINTEL NOTES:
- REFER TO PLANS AND LINTEL SCHEDULE FOR LOCATION.
 - MINIMUM BEARING AT EACH END OF LINTEL TO BE 200mm (8").
 - REFER TO DETAIL M01B.

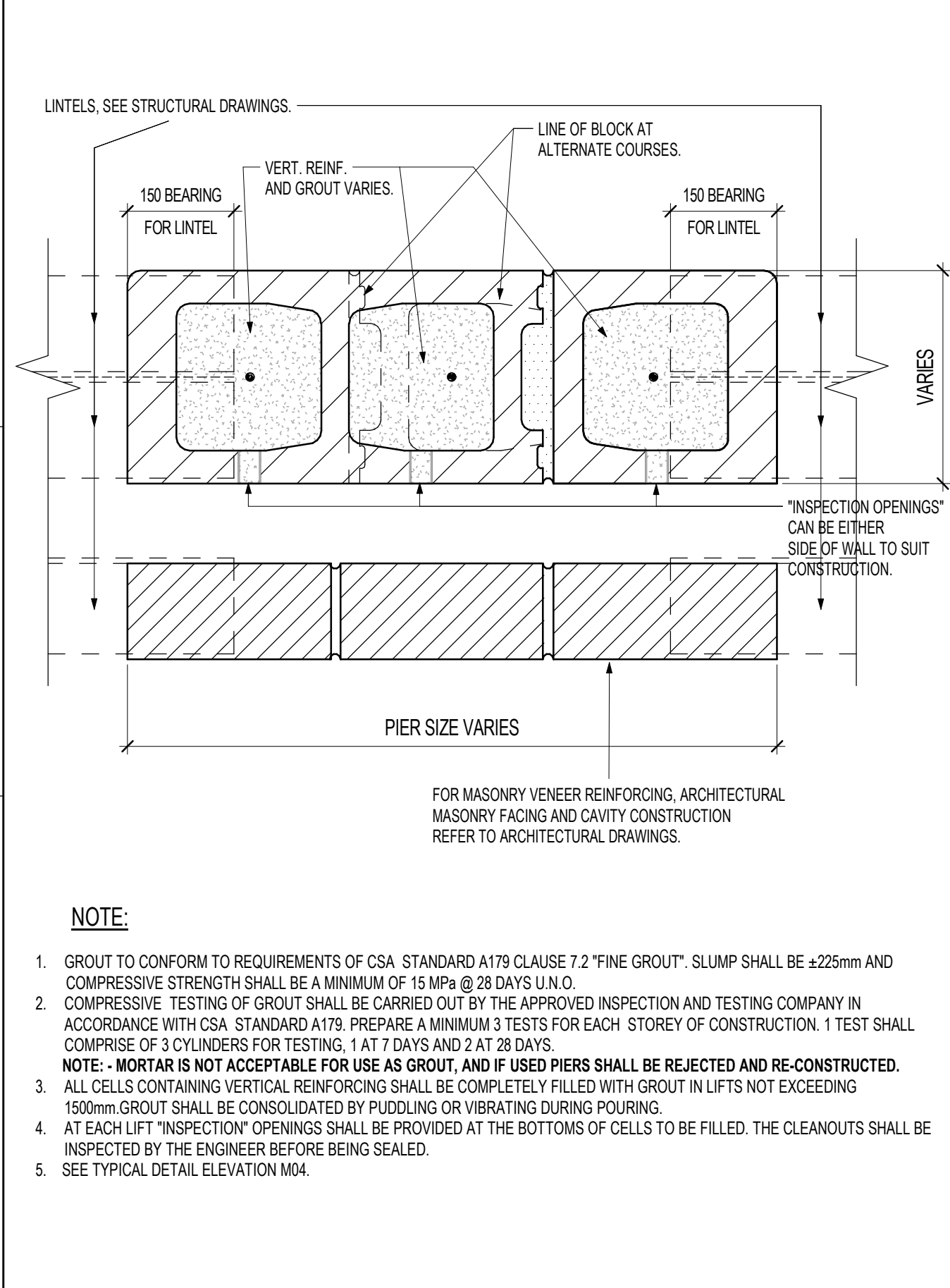
NON-LOAD BEARING BLOCK WALL LINTEL DETAILS

M01B



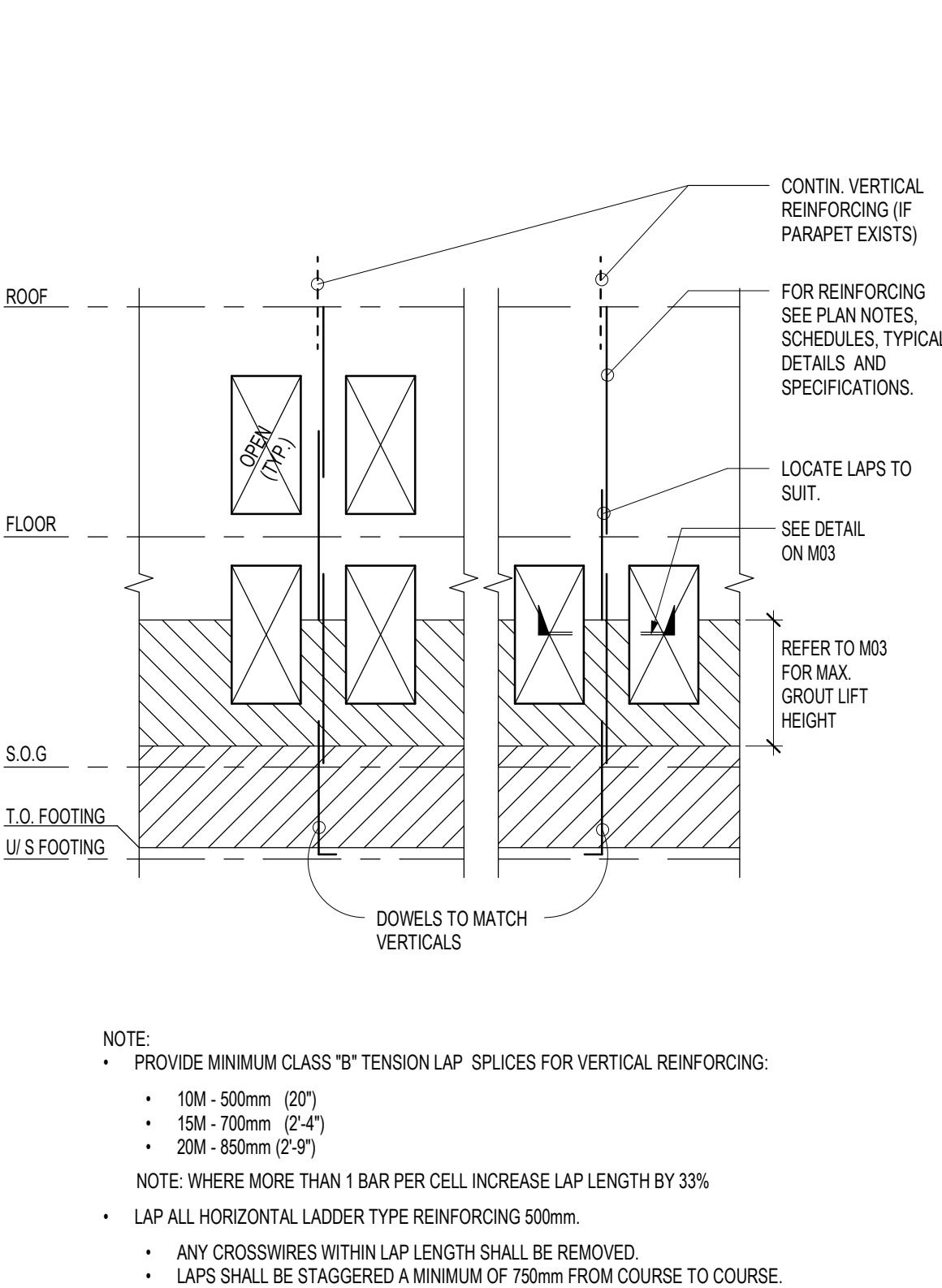
TYPICAL REINFORCED MASONRY WALLS AND PIERS PLAN DETAIL

M03



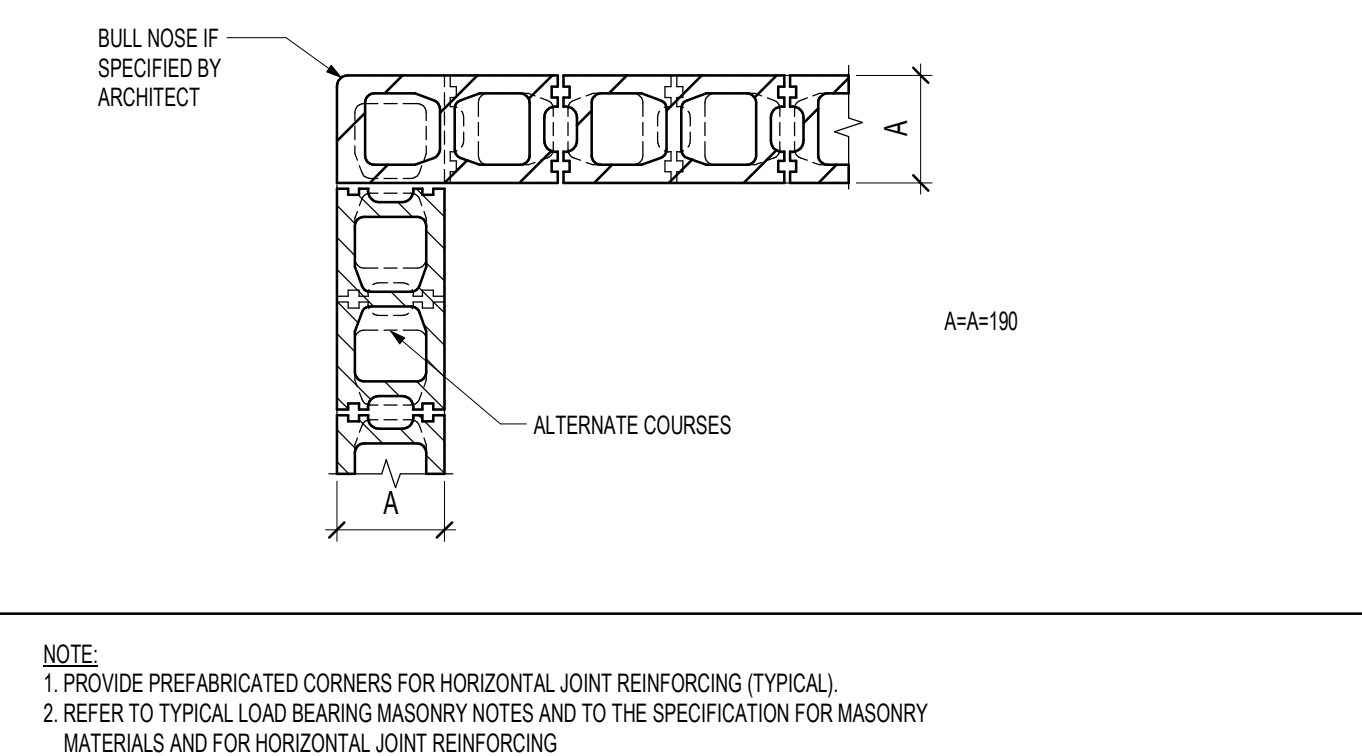
TYPICAL ELEVATION REINFORCED MASONRY WALLS AND PIERS

M04



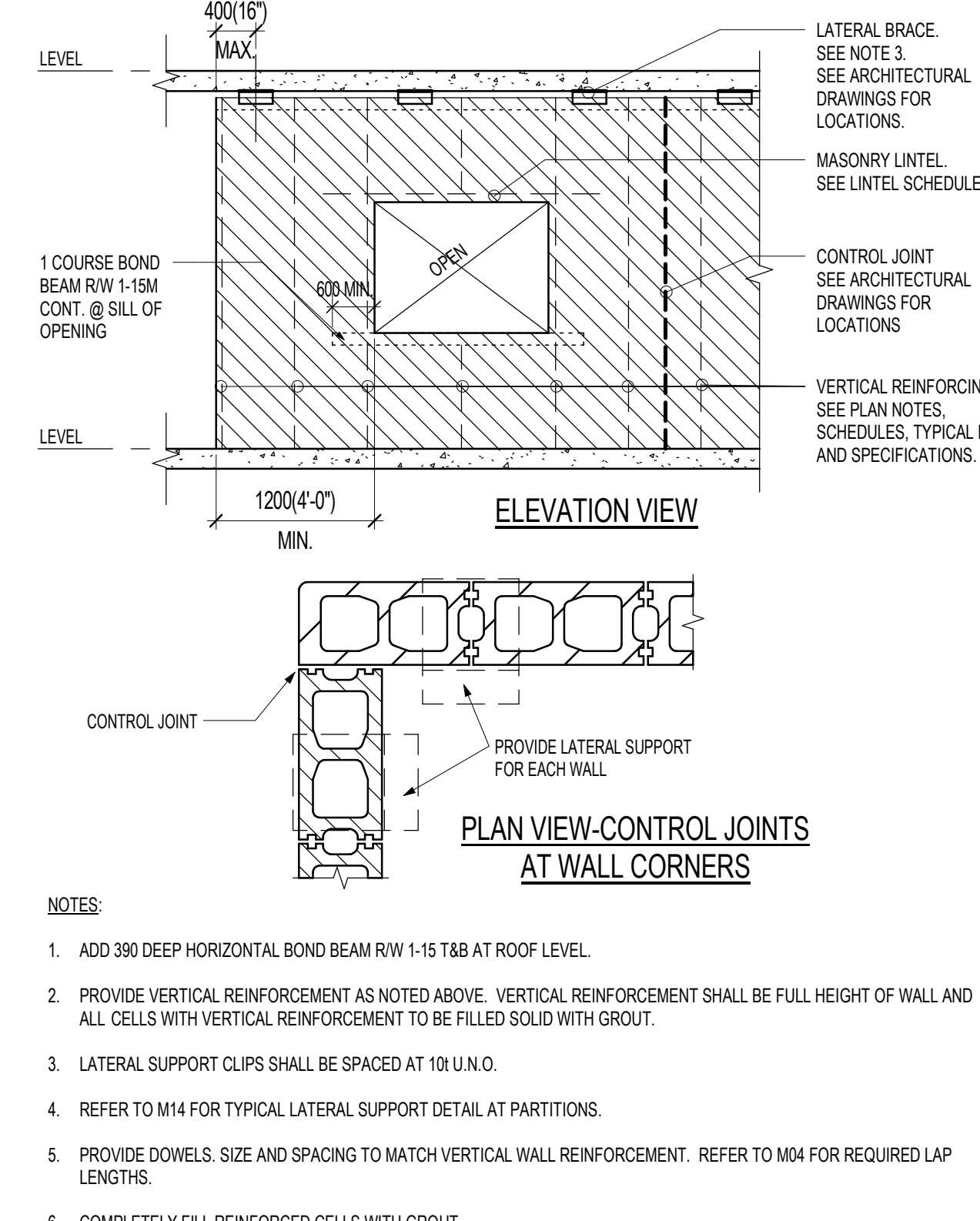
TYPICAL DETAIL OF CONSTRUCTED CORNERS IN SINGLE WYTHE MASONRY WALLS (NO CONTROL JOINT)

M06



TYPICAL MASONRY PARTITION REINFORCING SCHEDULE NOTES AND DETAIL

M07



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 Permit
3	Jan. 9, 2025	Re-issued for Permit
4	Jan. 30, 2025	Issued for Client Review - Pre Tender
5	Sept. 19, 2025	Issued for Building Permit
6	Oct. 8, 2025	Issued for Tender



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



COMFORT STATION JACK
DARLING MEMORIAL PARK

1180 LAKESHORE RD. W., MISSISSAUGA, ON. L5H 3G7

TYPICAL DETAILS	
PROJECT NO.	20240909
PROJECT DATE	Issue Date
DRAWN BY	RP
CHECKED BY	CG/JG
SCALE	1 : 1
DRAWING NO.	S3-05

NON LOAD-BEARING MASONRY PARTITION REINFORCING SCHEDULE (FOR SC1 & SC2 SEISMIC SITE DESIGNATION)

M07A

INTERIOR PARTITIONS IN BASEMENT
(DIFFERENTIAL PRESSURE 0.25kPa)

BLOCK	MAXIMUM HEIGHT	VERTICAL REINFORCING	HORIZONTAL REINFORCEMENT
140	3000 [10'-0"]	UNREINFORCED	9 GA @ 400mm (1'-4") o/c MAX. "LADDER" TYPE
190	4000 [14'-8"]		
240	5800 [19'-4"]		

INTERIOR PARTITIONS IN BASEMENT
(DIFFERENTIAL PRESSURE 0.25kPa)

BLOCK	MAXIMUM HEIGHT	VERTICAL REINFORCING	HORIZONTAL REINFORCEMENT
140	4200 [13'-9"]	15 @ 1200 [4'-0"] o/c	9 GA @ 400mm (1'-4") o/c MAX. "LADDER" TYPE
190	5600 [18'-8"]		
240	6800 [22'-8"]		

INTERIOR PARTITIONS ABOVE GRADE
(DIFFERENTIAL PRESSURE 0.5kPa)

BLOCK	MAXIMUM HEIGHT	VERTICAL REINFORCING	HORIZONTAL REINFORCEMENT
140	N/A	UNREINFORCED	9 GA @ 400mm (1'-4") o/c MAX. "LADDER" TYPE
190	3000 [10'-0"]		
240	3800 [12'-8"]		

INTERIOR PARTITIONS ABOVE GRADE
(DIFFERENTIAL PRESSURE 0.5kPa)

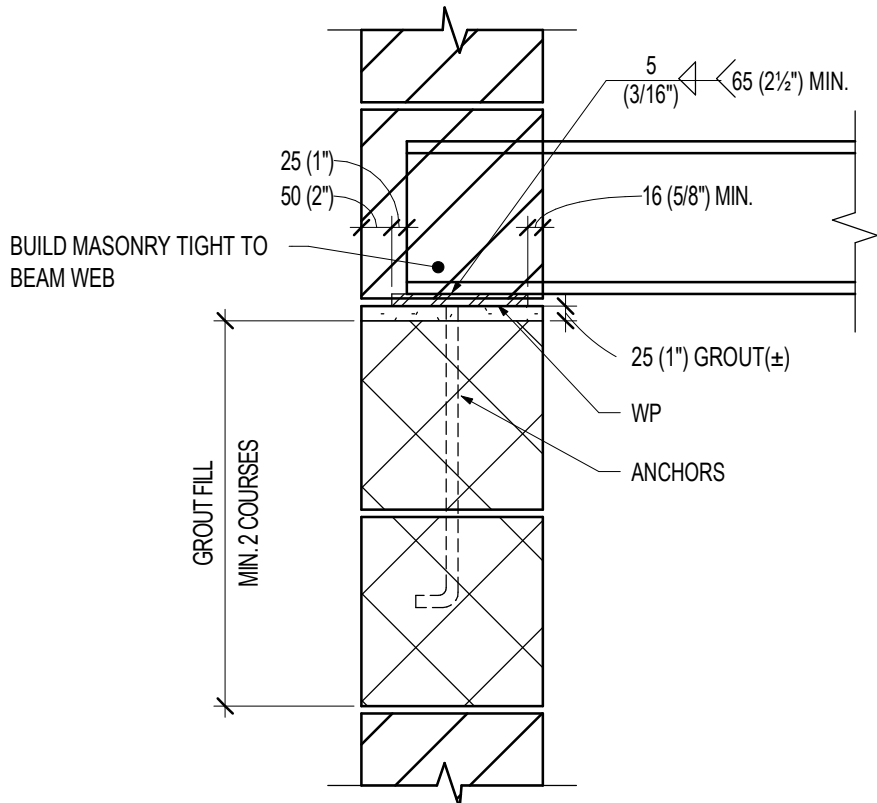
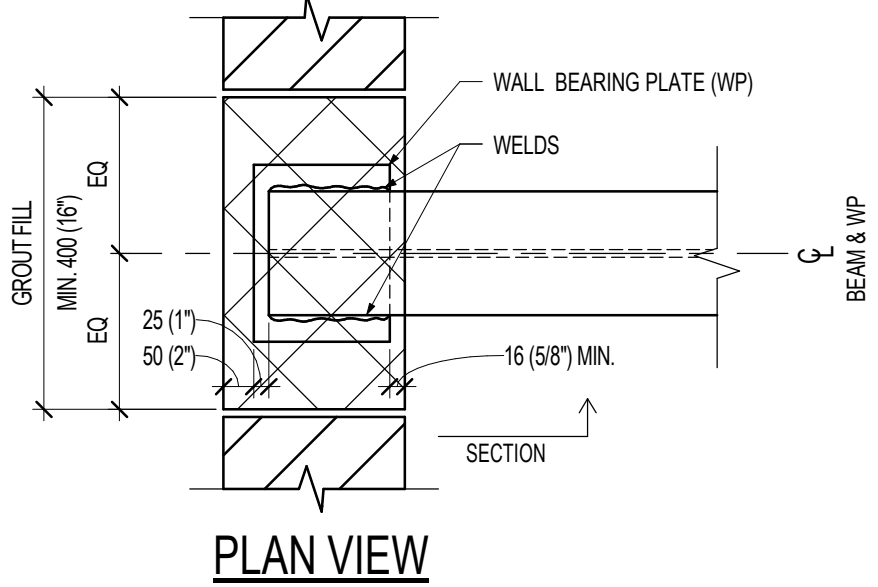
BLOCK	MAXIMUM HEIGHT	VERTICAL REINFORCING	HORIZONTAL REINFORCEMENT
140	3400 [11'-4"]	15 @ 1200 [4'-0"] o/c	9 GA @ 400mm (1'-4") o/c MAX. "LADDER" TYPE
190	5200 [17'-4"]		
240	6400 [21'-4"]		

NOTES:

- MINIMUM 600MM WIDE PIER BETWEEN ADJACENT OPENINGS. PIER MUST BE CONTINUOUS FROM BASE OF PARTITION TO LATERAL SUPPORT POINT AT TOP OF PARTITION.
- AVERAGE OPENING SIZE ON EITHER SIDE OF PIER LIMITED TO 1400mm FOR REINFORCED PARTITIONS
- FOR UNREINFORCED PARTITIONS, MAX. OPENING WIDTH MUST NOT EXCEED PIER LENGTH.
- REINFORCING SCHEDULE APPLIES FOR PARTITIONS WALLS UP TO 100m ABOVE GRADE
- PARTITION WALL REINFORCING DOES NOT APPLY FOR SHAFTS WHERE PRESSURES EXCEED NOTED DIFFERENTIAL PRESSURES NOTED ABOVE
- IF ANY OF THESE CONDITIONS ARE NOT MET, CONTRACTOR TO PROVIDE ENGINEER STAMPED SHOP DRAWINGS OF REINFORCING FOR CONSULTANT REVIEW
- REFER TO M14 FOR LATERAL SUPPORT DETAILS. LATERAL SUPPORTS TO BE SPACED AT 10x UNLESS NOTED OTHERWISE ALLOWABLE PARTITION HEIGHTS ARE BASED ON 15MPa NORMAL DENSITY BLOCK w/ TYPE 'S' MORTAR.

TYPICAL STEEL BEAM BEARING ON MASONRY WALL (PERPENDICULAR)

M08



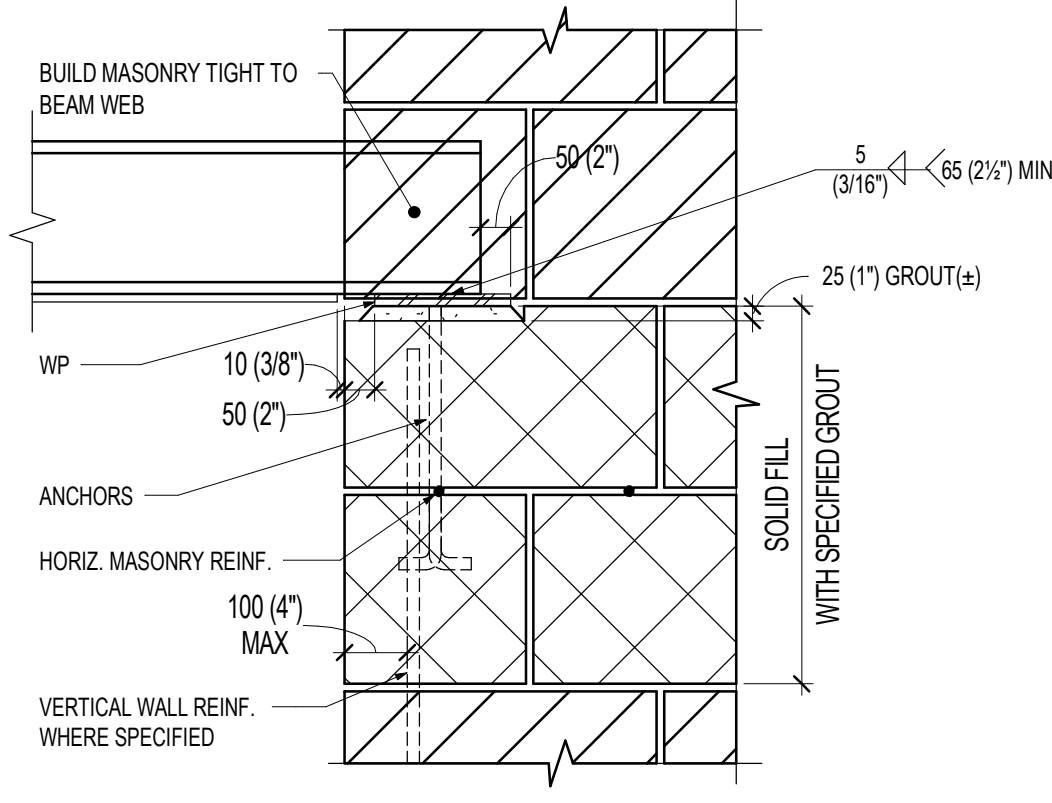
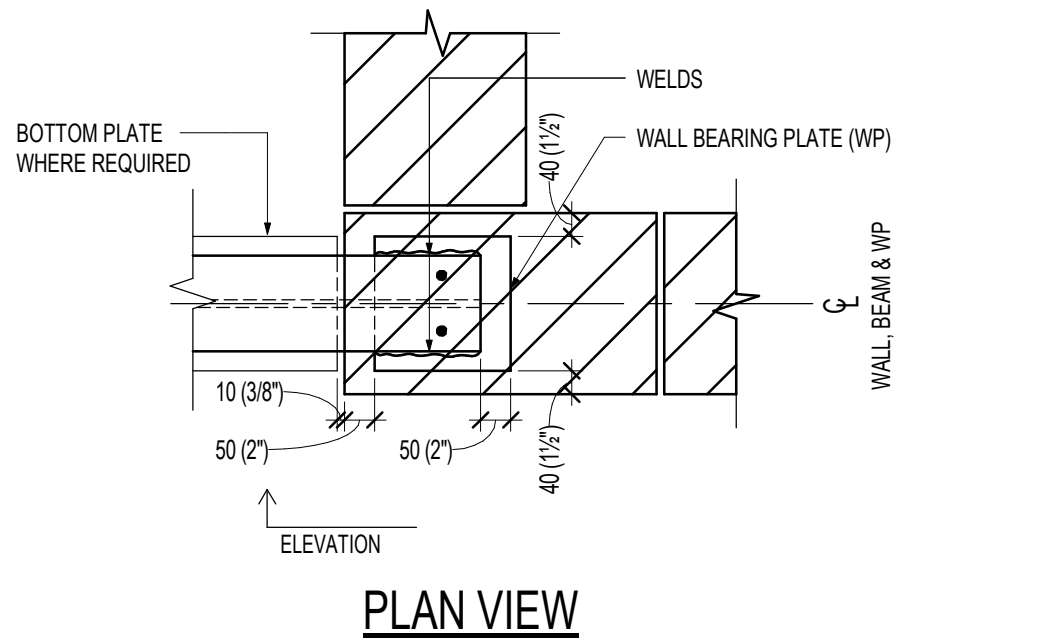
NOTE:

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



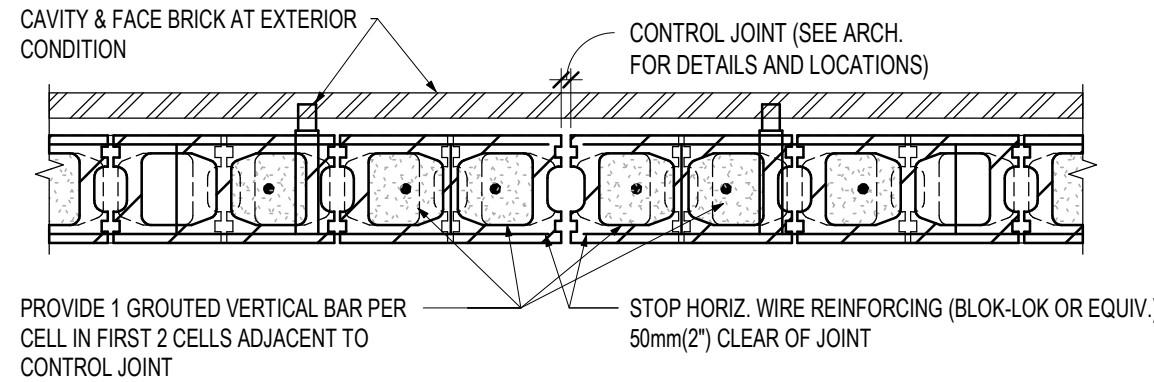
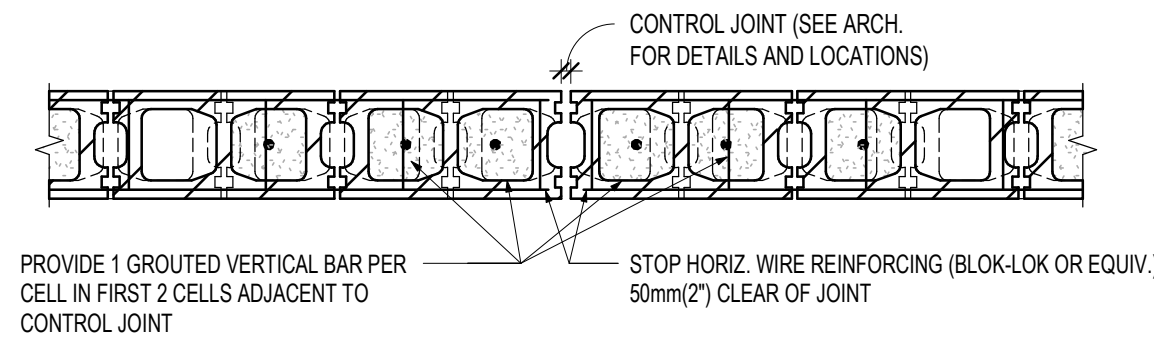
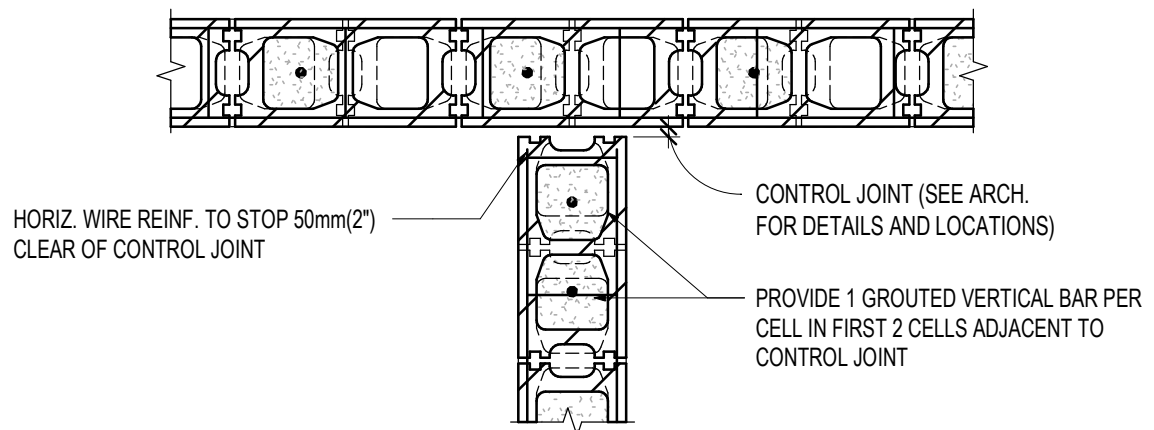
NOTE:

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

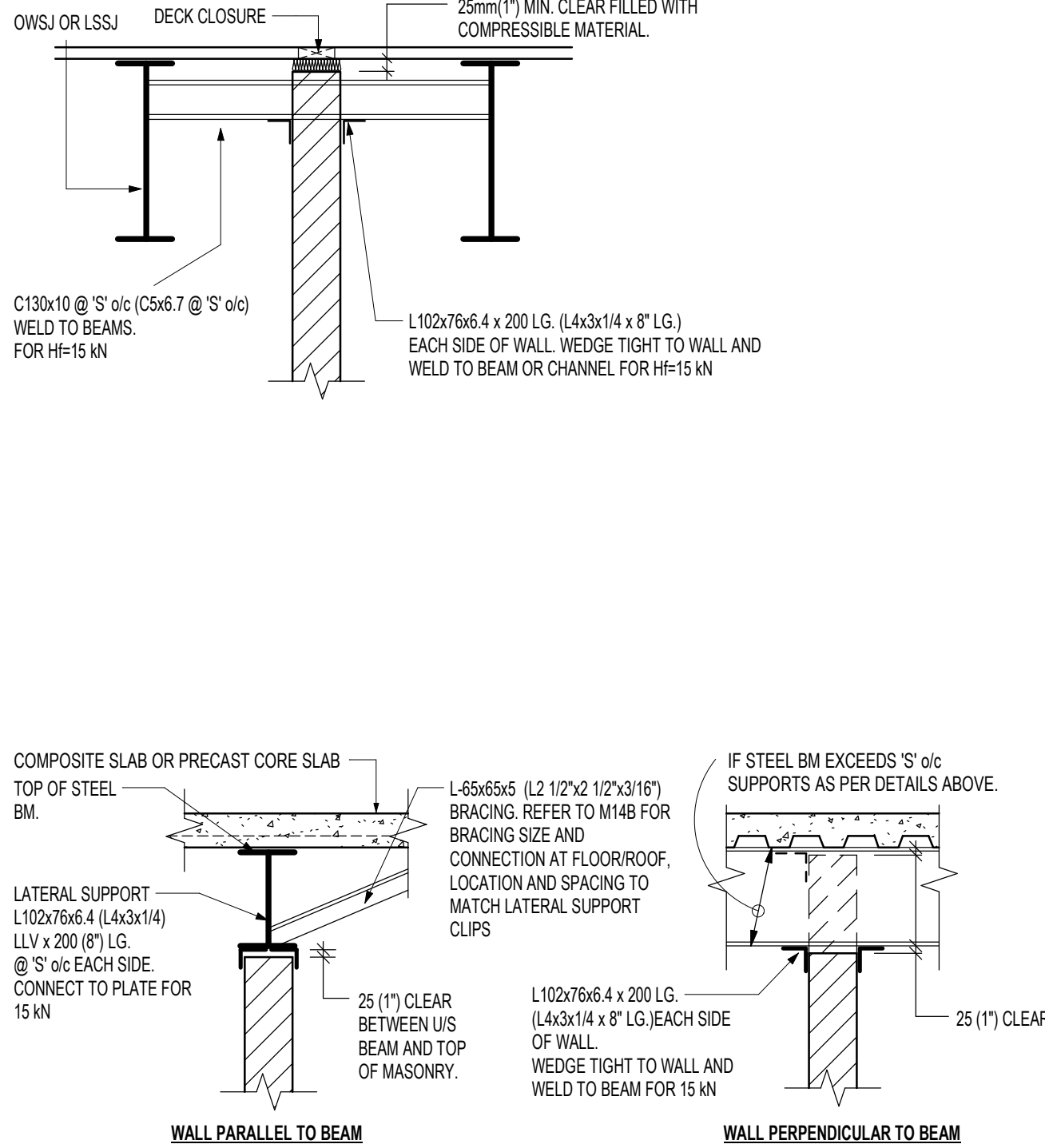


NOTE:

1. AT MASONRY LINTEL BOND BEAM STOP HORIZ. BARS 50mm (2") CLEAR OF CONTROL JOINT. UNLESS OTHERWISE NOTED.
2. SEE PLANS AND TYPICAL NOTES FOR VERTICAL REINFORCING AND GROUT

TYPICAL LATERAL SUPPORT AT PARTITIONS

M14A

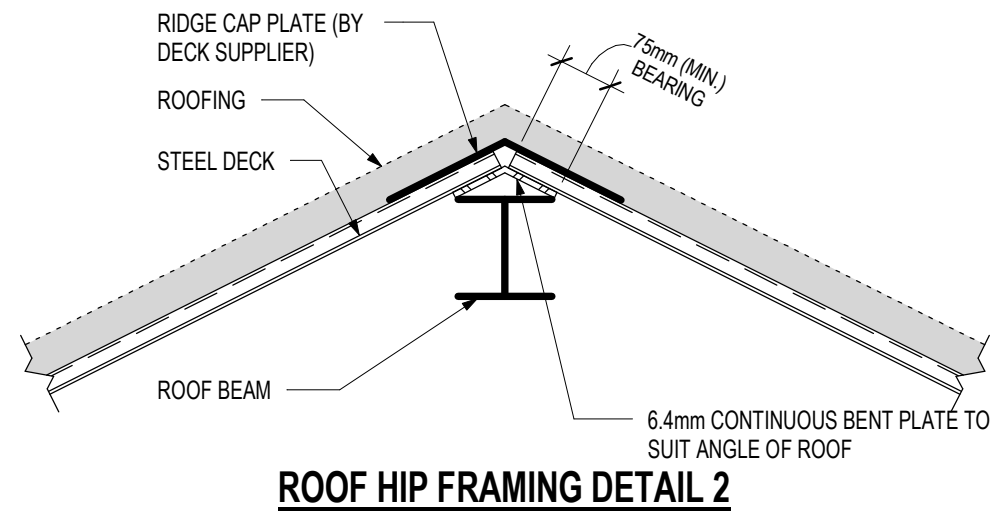


NOTES:

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.

HIP FRAMING DETAIL

SR08



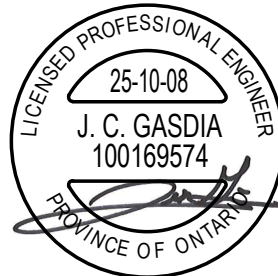
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Stephenson Engineering, a company of Salas O'Brien



PROJECT



COMFORT STATION JACK
DARLING MEMORIAL PARK

1180 LAKESHORE RD. W., MISSISSAUGA, ON. L5H 3G7

DRAWING

TYPICAL DETAILS

PROJECT NO. 20240909

PROJECT DATE Issue Date

DRAWN BY RP

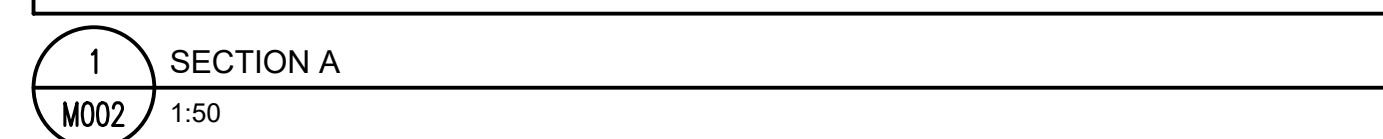
CHECKED BY CG/JG

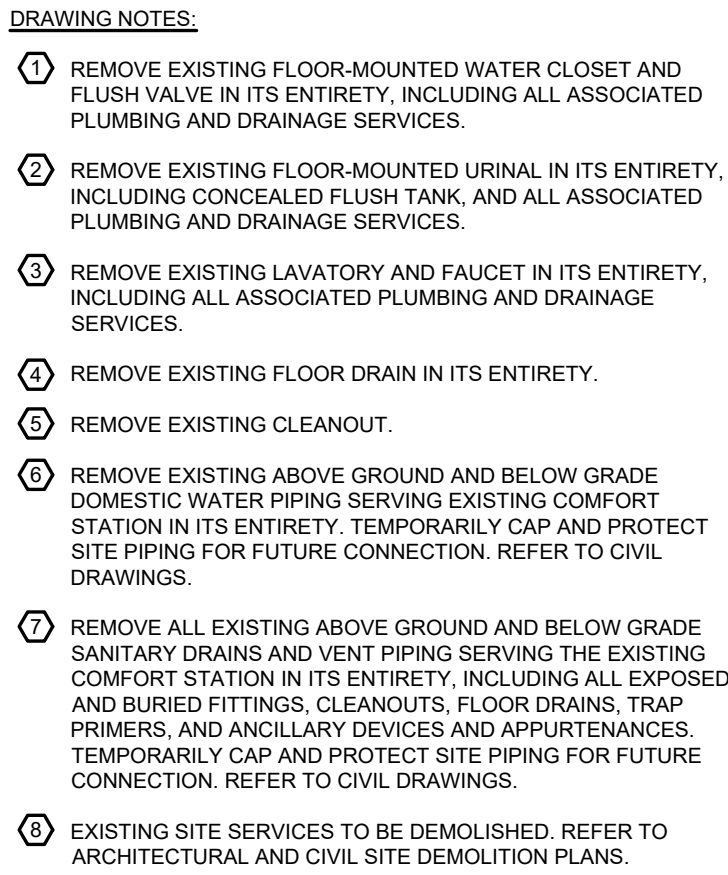
SCALE 1 : 1

DRAWING NO.

S3-06

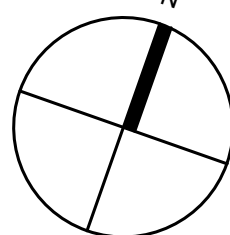
T SMITH ENGINEERING DRAWING SPECIFICATIONS			
1.	General Requirements		
1.1.	Contract Requirements		
1.1.1.	Perform all mechanical work detailed on these contract documents.		
1.1.2.	Provide a complete and fully functional mechanical and fire protection systems to the satisfaction of the mechanical consultant.		
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. Incor 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 drawing set on site for consultant review. As-built drawings are to solely note "Issued for As-Built" completion. Complete 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 fabrication 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, it 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 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 code and the requirements of the Authority Having Jurisdiction. Submit report(s) to Owner/CITY and consultants. Include reports in final closeout package.		
2.1.14.	Test plumbing systems before covering.		
2.1.15.	Separate dissimilar metals per best industry practices.		
2.1.16.	Slope all domestic water piping to low points to ensure ease of drainage for maintenance. Provide drain valves at low points.		
2.1.17.	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 paid 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 all 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 9001 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, Monsanto Insulation, and Knauf 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@ 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 lb/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 Knauf 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 814 Spin-Glas with FSK Facing, Manson Spin-Glas Rigid Insulating Board with reinforced foil facing, or Knauf Rigid Insulation Board with FSK Facing.		
6.23.2.	Flexible insulation to be Owens Corning Flexible Duct Insulation, Johns Manville Microclites Type 75 Duct Wrap, Manson Microclite Insulation, or Knauf 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.	Wiring		
8.4.1.	All copper conductors with chemically cross-linked thermosetting polyethylene insulation rated RW90 and 600V.		

M002



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REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1	2024-11-15	ISSUED FOR 60% DD
2	2024-11-07	ISSUED FOR DEMO PERMIT
3	2025-01-09	ISSUED FOR PERMIT
4	2025-01-30	ISSUED FOR CLIENT'S REVIEW - PRE TENDER
6	2025-09-10	ISSUED FOR CLIENT REVIEW
8	2025-10-08	ISSUED FOR TENDER
10	2025-10-20	REISSUED 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



Project Title

 **MISSISSAUGA**

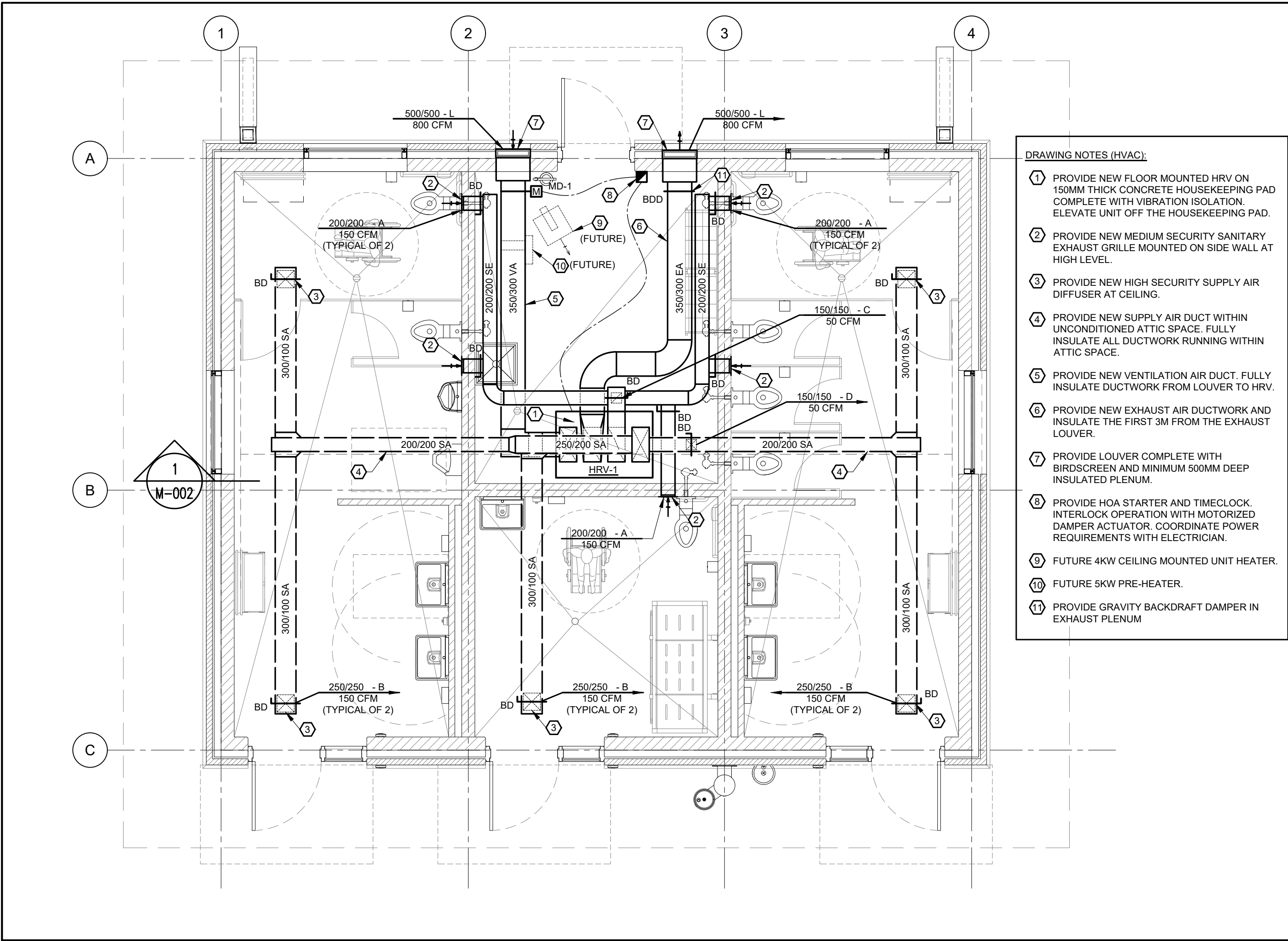
**COMFORT STATION
JACK DARLING
MEMORIAL PARK**

1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

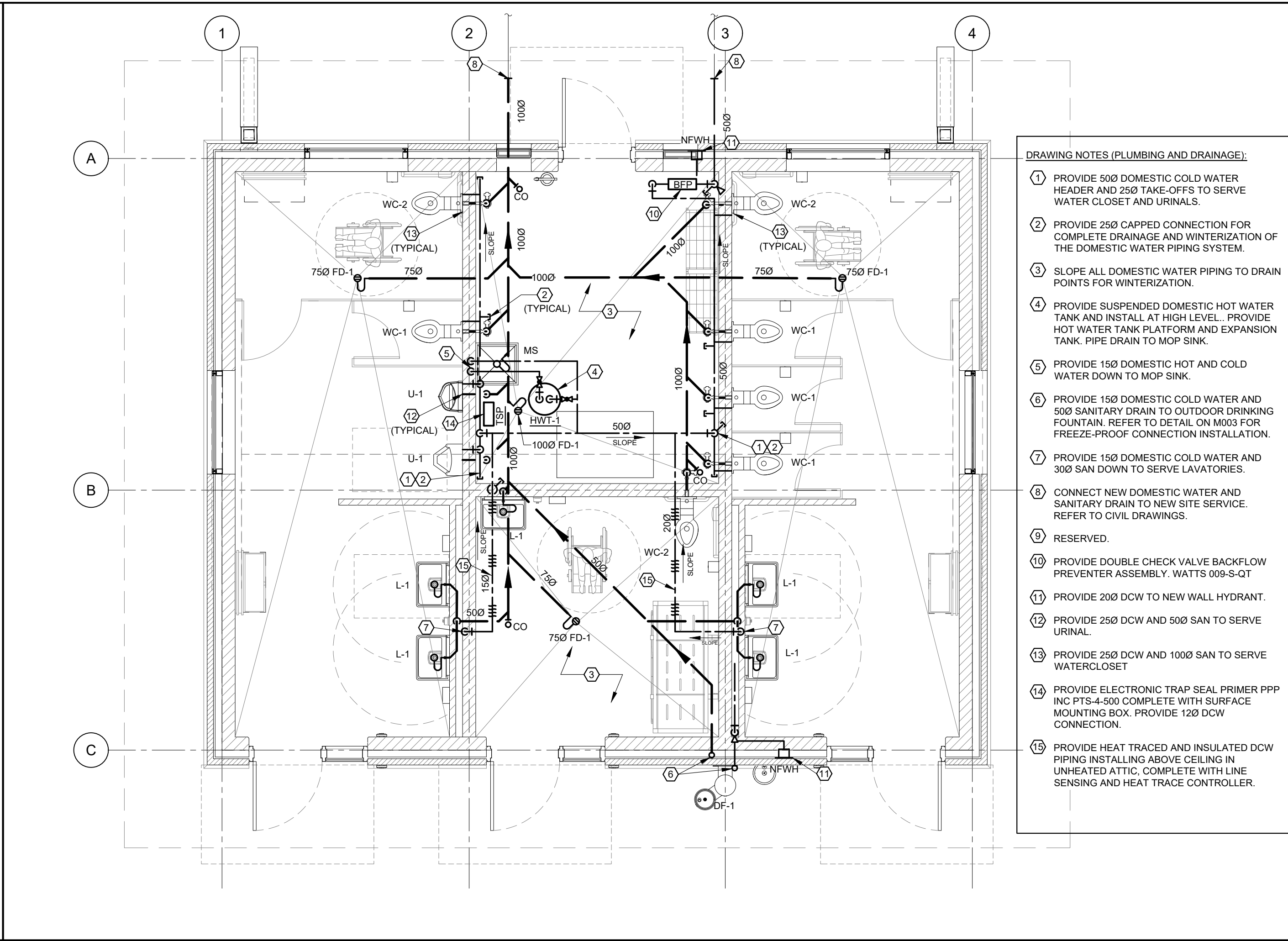
MECHANICAL
DEMOLITION

Project Number	24-07005
Date	January 9, 2025
Drawn	AS
Checked	AS
Scale	AS SHOWN
Drawing Number	

M100



- DRAWING NOTES (HVAC):**
- 1 PROVIDE NEW FLOOR MOUNTED HRV ON 150MM THICK CONCRETE HOUSEKEEPING PAD COMPLETE WITH VIBRATION ISOLATION. ELEVATE UNIT OFF THE HOUSEKEEPING PAD.
 - 2 PROVIDE NEW MEDIUM SECURITY SANITARY EXHAUST GRILLE MOUNTED ON SIDE WALL AT HIGH LEVEL.
 - 3 PROVIDE NEW HIGH SECURITY SUPPLY AIR DIFFUSER AT CEILING.
 - 4 PROVIDE NEW SUPPLY AIR DUCT WITHIN UNCONDITIONED ATTIC SPACE. FULLY INSULATE ALL DUCTWORK RUNNING WITHIN ATTIC SPACE.
 - 5 PROVIDE NEW VENTILATION AIR DUCT. FULLY INSULATE DUCTWORK FROM LOUVER TO HRV.
 - 6 PROVIDE NEW EXHAUST AIR DUCTWORK AND INSULATE THE FIRST 3M FROM THE EXHAUST LOUVER.
 - 7 PROVIDE LOUVER COMPLETE WITH BIRDSCREEN AND MINIMUM 500MM DEEP INSULATED PLENUM.
 - 8 PROVIDE HOA STARTER AND TIMECLOCK. INTERLOCK OPERATION WITH MOTORIZED DAMPER ACTUATOR. COORDINATE POWER REQUIREMENTS WITH ELECTRICIAN.
 - 9 FUTURE 4KW CEILING MOUNTED UNIT HEATER.
 - 10 FUTURE 5KW PRE-HEATER
 - 11 PROVIDE GRAVITY BACKDRAFT DAMPER IN EXHAUST PLENUM



- DRAWING NOTES (PLUMBING AND DRAINAGE):**
- 1 PROVIDE 500 DOMESTIC COLD WATER HEADER AND 250 TAKE-OFFS TO SERVE WATER CLOSET AND URINALS.
 - 2 PROVIDE 250 CAPPED CONNECTION FOR COMPLETE DRAINAGE AND WINTERIZATION OF THE DOMESTIC WATER PIPING SYSTEM.
 - 3 SLOPE ALL DOMESTIC WATER PIPING TO DRAIN POINTS FOR WINTERIZATION.
 - 4 PROVIDE SUSPENDED DOMESTIC HOT WATER TANK AND INSTALL AT HIGH LEVEL. PROVIDE HOT WATER TANK PLATFORM AND EXPANSION TANK. PIPE DRAIN TO MOP SINK.
 - 5 PROVIDE 150 DOMESTIC HOT AND COLD WATER DOWN TO MOP SINK.
 - 6 PROVIDE 150 DOMESTIC COLD WATER AND 500 SANITARY DRAIN TO OUTDOOR DRINKING FOUNTAIN. REFER TO DETAIL ON M003 FOR FREEZE-PROOF CONNECTION INSTALLATION.
 - 7 PROVIDE 150 DOMESTIC COLD WATER AND 300 SAN DOWN TO SERVE LAVATORIES.
 - 8 CONNECT NEW DOMESTIC WATER AND SANITARY DRAIN TO NEW SITE SERVICE. REFER TO CIVIL DRAWINGS.
 - 9 RESERVED.
 - 10 PROVIDE DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY. WATTS 009-S-QT
 - 11 PROVIDE 200 DCV TO NEW WALL HYDRANT.
 - 12 PROVIDE 250 DCV AND 500 SAN TO SERVE URINAL.
 - 13 PROVIDE 250 DCV AND 1000 SAN TO SERVE WATERCLOSET
 - 14 PROVIDE ELECTRONIC TRAP SEAL PRIMER PPP INC PTS-4-500 COMPLETE WITH SURFACE MOUNTING BOX. PROVIDE 120 DCV CONNECTION.
 - 15 PROVIDE HEAT TRACED AND INSULATED DCW PIPING INSTALLING ABOVE CEILING IN UNHEATED ATTIC. COMPLETE WITH LINE SENSING AND HEAT TRACE CONTROLLER.

1 COMFORT STATION - HVAC
M200 SCALE: 1:50

2 COMFORT STATION - PLUMBING AND DRAINAGE
M200 SCALE: 1:50

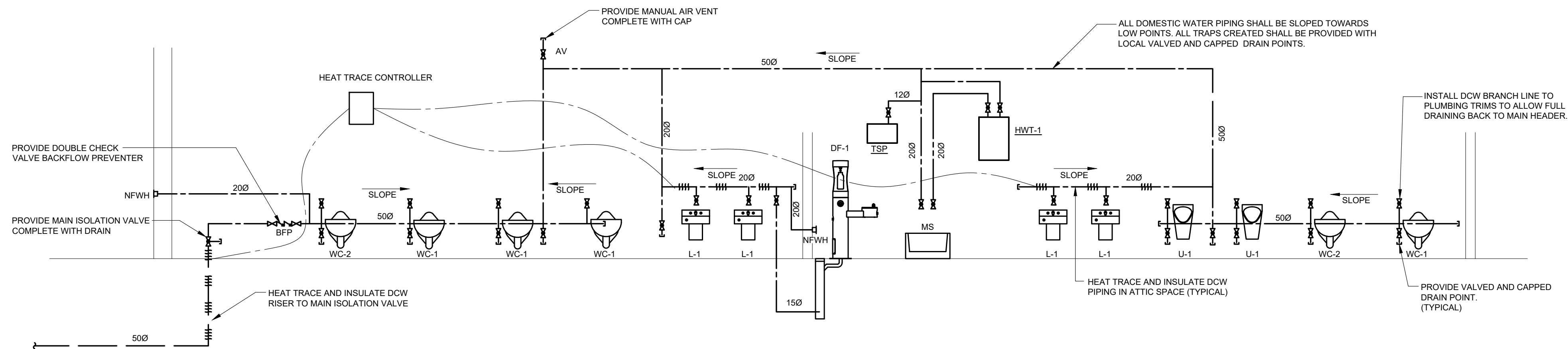
HEAT RECOVERY VENTILATOR																																													
TAG	LOCATION	MANUFACTURER	MODEL	FAN								HEAT EXCHANGER												HEATER						PREFILTER	ELECTRICAL					DIMENSIONS			SONES	WEIGHT		COMMENTS			
				SUPPLY				RETURN				SUPPLY						EXHAUST						PREHEAT			MAIN HEAT				UNIT			LBS	KG										
				AIRFLOW (CFM)	E.S.P.	HP	TYPE	AIRFLOW (CFM)	E.S.P.	HP	TYPE	EAT (°F)	RH	LAT (°F)	RH	SEN EFF	LAT EFF	TOTAL EFF	EAT(°F)	RH	LAT (°F)	RH	SEN EFF	LAT EFF	TOTAL EFF	MODEL	KW	DIMENSION	MODEL		KW	DIMENSION	MERV			VOLTAGE	PHASE	HZ		MCA	MOCP		L (MM)	W (MM)	H (MM)
HRV-1	STORAGE	BLAUBERG	BL02 RV2500E-HE-S31	800	0.5	1	EC	800	0.5	1	EC	SUMMER	86	40%	73.8	47.70%	84.6%	89.9%	84.8%	71.6	50%	83.5	42.10%	82.8%	87.5%	84.8%	NK-500X250-10.5-3-NB	4.7	500X250	ERH-500X250-12-0-3-A	12	500X250	8	240	1	60	50.5	60	610	584	584	8	111	50	SEE NOTES
NOTE: 1. PROVIDE DISCONNECT AND STARTER FOR ALL EQUIPMENT 2. PROVIDE CSA APPROVED MOTOR. 3. PROVIDE ELECTRIC HEATING COIL 4. PROVIDE PRE-FILTER KIT FOR PREHEATER . 5. PROVIDE USER CONTROL PANEL TH-TUNE (S30)																																													

EXPANSION TANK														
TAG	SERVICE	MANUFACTURER	MODEL	STORAGE VOLUME		MAXIMUM ACCEPTANCE VOLUME		PRECHARGE	MAX. WORKING PRESSURE	DIMENSION		WEIGHT (INCLUDING WATER)		COMMENTS
				US GAL	LITERS	US GAL	LITERS	PSI	PSIG	DIAMETER (MM)	HEIGHT (MM)	LBS	KG	
ET-1	HWT-1	AMTROL	ST-5C-DD	2	8	0.9	3	55	150	203	356	20	9	SEE NOTES
NOTE: 1. ADJUST TANK PRESSURE TO MATCH SYSTEM PRESURE ON SITE.														

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																	

AIR TERMINALS - GRILLES, REGISTERS, AND DIFFUSERS							COMMENTS
TAG	TYPE	MANUFACTURER	MODEL	MATERIAL	FINISH	MOUNTING TYPE	
A	EXHAUST GRILLE (MEDIUM SECURITY)	EH PRICE	MSBL	STEEL	WHITE	WALL	REFER TO PLANS FOR FACE SIZE. PROVIDE F16 FRAME, C7 CORE, S4 SLEEVE, TYPE NF2 MOUNTING FRAME, C58 SPNR-SS FASTENING, 3BR VOLUME DAMPER.
B	SUPPLY DIFFUSER (MAXIMUM SECURITY)	EH PRICE	MSRCD	STEEL	WHITE	CEILING	REFER TO PLANS FOR FACE SIZE. PROVIDE 4-WAY AIR DISTRIBUTION PATTERN, MF3 ANGLE FRAME, C512-SPNR-SS TAMPER-PROOF STAINLESS STEEL SCREWS.
C	EXHAUST GRILLE	EH PRICE	510Z-L	STEEL	WHITE	CEILING	REFER TO PLANS FOR FACE SIZE. PROVIDE TYPE F FRAME, TYPE A COUNTERSUNK SCREW FASTENING, OPPOSED BLADE DAMPER.
D	SUPPLY REGISTER	EH PRICE	520-L	STEEL	WHITE	CEILING	REFER TO PLANS FOR FACE SIZE. DOUBLE DEFLECTION REGISTER, PROVIDE TYPE F FRAME, TYPE A COUNTERSUNK SCREW FASTENING, OPPOSED BLADE DAMPER.
MD-1	MOTORIZED DAMPER AND ACTUATOR	EH PRICE	CCD-AE51-B	ALUMINUM	MILLED	DUCT	REFER TO PLANS FOR DUCT SIZE. PROVIDE FACTORY FURNISHED BELIMO AF24-SR (-S) ACTUATOR COMPLETE WITH 120V/24V TRANSFORMER.
L	LOUVER	VENTEX	2430	ALUMINUM	SEE COMMENTS	WALL	REFER TO PLANS FOR APPROXIMATE FACE SIZE. PROVIDE CUSTOM COLOUR FINISH TO ARCHITECT'S APPROVAL. PROVIDE GALVANIZED BIRDSCREEN. COORDINATE FINAL SIZE ON SITE TO MATCH WINDOW AND WALL OPENINGS.

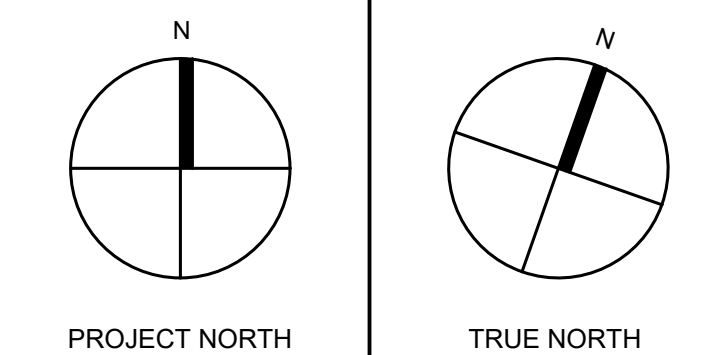
HEAT TRACING SYSTEM AND COMPONENTS (RAYCHEM)		
ITEM	CATALOG NUMBER	DESCRIPTION
	B/615A2100106.1/1361207829A/X/N12	120V Raychem XM-A Single Conductor Heating Cable (terminated)
T0002069	MJB-864-A	Junction Box
P00000181	JBS-100-ECW-A	Electronic temperature controller
RTD10CS	RTD10CS	Raychem RTD with 10 foot S/S corrugated shield
C77203-000	ETL-ENGLISH	Electric Traced Label for traced pipes and tanks
PB125	PB125	Pipe strap for M/Cables - to 1.25 in. (pack of 50 pc)
C77211-000	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 - 30A MCCP		



3 DOMESTIC WATER PIPING SCHEMATIC
M200 N.T.S.

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REVISIONS/SUBMISSIONS		
No.	DATE	DESCRIPTION
1	2024-11-15	ISSUED FOR 60% DD
2	2024-12-08	ISSUED FOR PERMIT
3	2025-01-09	ISSUED FOR PERMIT
4	2025-01-30	ISSUED FOR CLIENT'S REVIEW - PRE TENDER
5	2025-02-13	RESPONSE TO CITY'S COMMENTS
6	2025-09-10	ISSUED FOR CLIENT REVIEW
7	2025-10-03	ISSUED FOR PERMIT
8	2025-10-08	ISSUED FOR TENDER
9	2025-10-20	ISSUED FOR PERMIT REVISION
10	2025-10-20	REISSUED 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

Smith
Engineering Inc.
707 Kipling Ave. Toronto, ON, M8Z 5G4
Tel. (416) 798-8770
www.tsmithengineering.com

2025-10-20

Project Title

MISSISSAUGA

**COMFORT STATION
JACK DARLING
MEMORIAL PARK**

1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

Sheet Title

**MECHANICAL
NEW**

Project Number 24-07005

Date January 9, 2025

Drawn AS

Checked AS

Scale AS SHOWN

Drawing Number

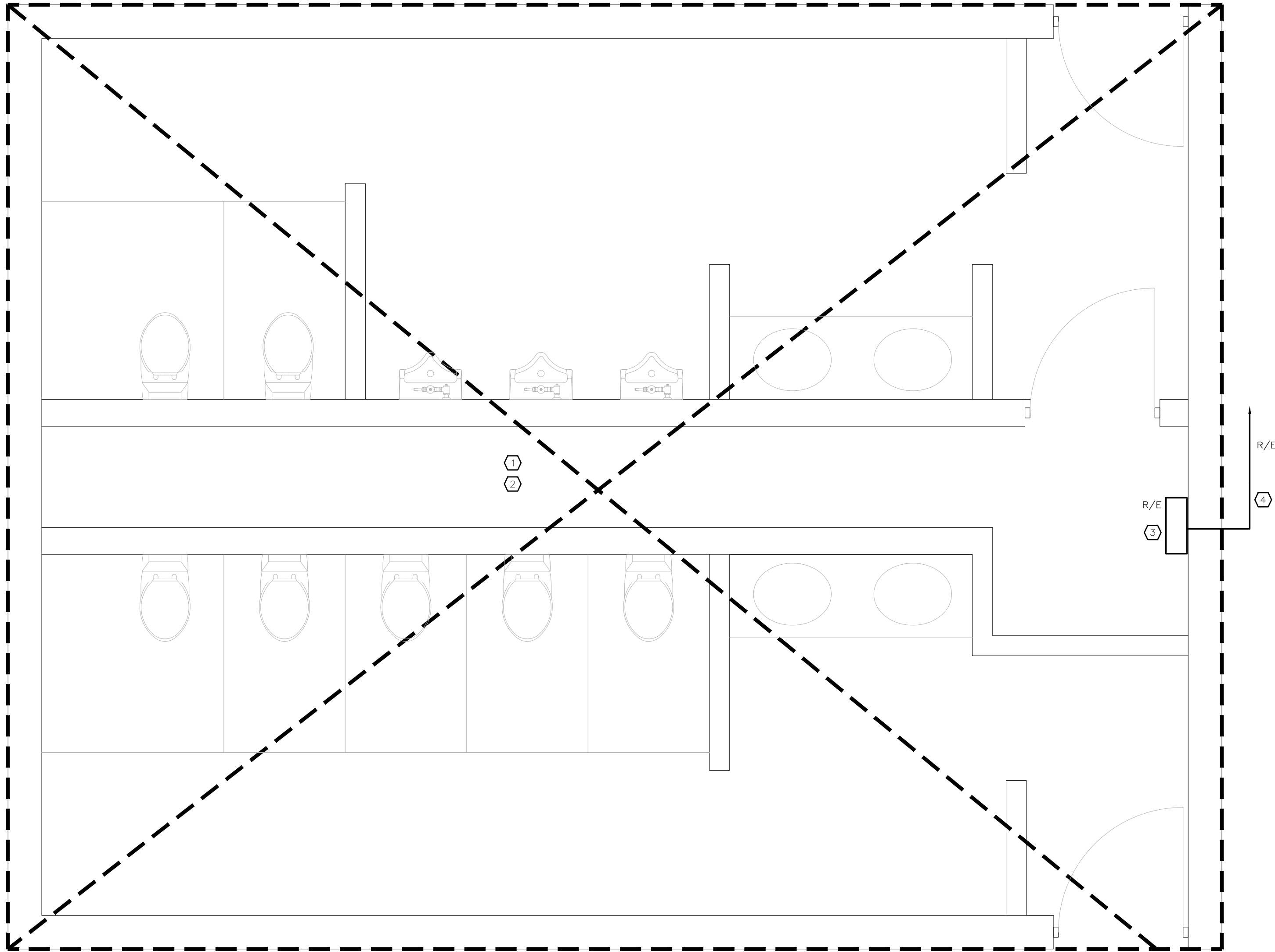
M200

E100

- KEY NOTES:**
- ALL EXISTING ELECTRICAL DEVICES C/W THEIR ASSOCIATED WRING AND CONDUITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
 - EXISTING POWER CONNECTIONS TO EXISTING MECHANICAL UNITS C/W THEIR ASSOCIATED WRING AND CONDUITS, BEING REMOVED BY MECHANICAL CONTRACTOR, SHALL BE REMOVED. COORDINATE SCOPE OF WORK WITH MECHANICAL DRAWINGS.
 - ALLOW TO TEMPORARY RELOCATE THE EXISTING ELECTRICAL PANEL INSIDE A WEATHERPROOF EXTERIOR ENCLOSURE, AND THEN REMOVE AND UPGRADE THE EXISTING ELECTRICAL SERVICE. REFER TO THE DISTRIBUTION DIAGRAM FOR DETAILS.
 - ALLOW TO LOCATE EXCISING UNDERGROUND FEEDERS ON SITE.

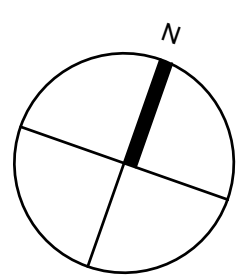
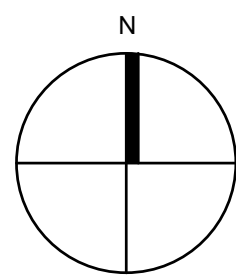
- GENERAL NOTES:**
- CONTRACTOR TO DO A FULL INVESTIGATION OF THE SITE PRIOR TO PRICING THE DEMOLITION WORK.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING DURING DEMOLITION AND CONSTRUCTION PHASES AS REQUIRED.
 - ALL DEVICES TO BE DEMOLISHED MAY NOT BE IDENTIFIED ON THE DRAWINGS DUE TO INACCESSIBILITY DURING SITE REVIEW. CONTRACTOR SHALL CONFIRM SCOPE OF DEMOLITION WORK WITH ARCHITECT AND INCLUDE ALL COST IN THE TENDER SUBMISSION.

- DEMOLITION NOTES:**
- CONTRACTOR SHALL DETERMINE ON SITE THE LOCATION AND QUANTITIES OF ALL EXISTING ELECTRICAL DEVICES TO BE REMOVED.
 - THE SCOPE AND EXTENT OF THE DEMOLITION OR REVISION WORK IS ONLY GENERALLY INDICATED ON THE DRAWINGS. ESTIMATE THE SCOPE, EXTENT AND COST OF THE WORK AT THE SITE DURING THE BIDDING PERIOD SCHEDULED SITE VISIT(S).
 - REMOVE ALL PCB BALLASTS FROM LUMINAIRES. PLACE IN STORAGE DRUMS. ALL WORK TO BE DONE IN ACCORDANCE WITH THE MINISTRY OF ENVIRONMENT RULES AND REGULATIONS. ALLOW TO REMOVE BALLASTS AND DRUMS FROM SITE.
 - REMOVE ALL DISTRIBUTION PANELS, POWER PANELS, LIGHTING PANELS, TRANSFORMERS, CONTACTORS, TIME SWITCHES, DISCONNECT SWITCHES, CONDUITS, WIRING, OUTLETS, LUMINAIRES, EMERGENCY LIGHTING, MECHANICAL EQUIPMENT, HEATING, VAV BOXES, WATER HEATING UNITS, SECURITY DEVICES, PAGING SPEAKERS, CEILING FANS, ELECTRONIC ANTI THEFT DEVICES, CONTROLS ETC. FROM CEILINGS AND WALLS BEING DEMOLISHED. REMOVE WIRING AND ALL ASSOCIATED CONDUIT BACK TO PANELS UNLESS OTHERWISE NOTED.
 - REMOVE ALL REDUNDANT CONDUIT RUNNING ABOVE CEILING SPACE BACK TO SOURCE AND MAKE SAFE AS REQUIRED, C/W ASSOCIATED SUSPENSION ACCESSORIES.
 - DISCONNECT AND REMOVE ALL FLOOR BOXES/FLOOR OUTLETS, AND ELECTRICAL CONNECTIONS, AND CUT BACK TO SOURCE. MAKE SAFE ALL WIRING AS REQUIRED. ALL PENETRATIONS TO BE SEALED FROM BOTH SIDES WITH APPROPRIATE FIRE STOPPING MATERIALS. CONTRACTOR SHALL MAKE A SITE DETERMINATION FOR EXACT QUANTITY AND LOCATIONS OF ALL FLOOR BOXES/OUTLETS.
 - REMOVE ALL ELECTRICAL DISTRIBUTION EQUIPMENT C/W ASSOCIATED BRANCH CIRCUITS, DEVICES FED FROM PANEL CONDUIT AND WIRING BACK TO SOURCE AND MAKE SAFE, UNLESS OTHERWISE NOTED.
 - REMOVE ALL POWER FOR MECHANICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO AIR CONDITIONERS, HUMIDIFIERS, FANS, HOTWATER TANKS, CHILLER, COOLING TOWER, PUMPS, ETC. ALLOW FOR REMOVAL OF ALL DISCONNECT SWITCHES, CONDUITS, WIRING AND CABLING AS REQUIRED, UNLESS OTHERWISE NOTED. REFER TO MECHANICAL SCOPE OF WORK. THE SCOPE AND EXTENT OF DEMOLITION IS ONLY GENERALLY DEPICTED ON DRAWINGS.
 - ALL WORK TO BE DONE IN ACCORDANCE WITH LOCAL HYDRO REGULATIONS.
 - REFER TO ARCHITECTURAL AND MECHANICAL DEMOLITION DRAWING FOR COMPLETE SCOPE OF DEMOLITION WORK.
 - CLAIMS FOR EXTRA COSTS FOR DEMOLITION WORK NOT SHOWN OR SPECIFIED BUT CLEARLY VISIBLE OR ASCERTAINABLE AT THE SITE DURING BIDDING PERIOD SITE VISITS WILL NOT BE ALLOWED.
 - IF ANY RE-DESIGN IS REQUIRED DUE TO DISCREPANCIES BETWEEN THE ELECTRICAL DRAWINGS AND SITE CONDITIONS, NOTIFY THE CONSULTANT WHO WILL ISSUE A SITE INSTRUCTION. IF, IN THE OPINION OF THE CONSULTANT, DISCREPANCIES BETWEEN THE ELECTRICAL DRAWINGS AND ACTUAL SITE CONDITIONS ARE OF A MINOR NATURE, THE REQUIRED MODIFICATIONS ARE TO BE DONE AT NO ADDITIONAL COST.
 - UNLESS OTHERWISE SPECIFIED, REMOVE FROM THE SITE AND DISPOSE OF ALL EXISTING MATERIALS WHICH HAVE BEEN REMOVED AND ARE NOT TO BE RELOCATED OR REUSED.
 - BE RESPONSIBLE AND PAY FOR ANY DAMAGE TO THE BUILDING INCURRED BY WORK OF THIS DIVISION, OR REPAIR TO THE SATISFACTION OF THE CONSULTANT.
 - CARRY OUT THE WORK WITH A MINIMUM OF NOISE, DUST AND DISTURBANCE.
 - PROVIDE TOOLS AND CLEAN UP EQUIPMENT.
 - PROVIDE DAILY CLEAN-UP AND PROPER DISPOSAL OF DEBRIS GENERATED BY DAILY OPERATIONS. ON COMPLETION OF THE WORK, ALL TOOLS, SURPLUS MATERIALS AND WASTE MATERIALS SHALL BE REMOVED AND THE PREMISES LEFT IN A CLEAN, PERFECT CONDITION.
 - X-RAY ALL EXISTING WALLS, CEILINGS SLAB, ETC. THAT ARE IDENTIFIED TO BE DEMOLISHED UNDER THIS CONTRACT. REROUTE AND REWORK ELECTRICAL SERVICES AS INDICATED AND AS REQUIRED TO MAINTAIN CONTINUITY OF ALL EXISTING SYSTEMS (I.E LIGHTING, POWER, FIRE ALARM, SECURITY) WHICH ARE AFFECTED BY DEMOLITION/RELOCATION.



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06.	SEP 12, 2025	ISSUED FOR CLIENTS REVIEW
07.	OCT 3, 2025	ISSUED FOR PERMIT
08.	OCT 8, 2025	ISSUED FOR TENDER



ENGINEER

JK
info@jkengineering.ca

JK:ENGINEERING
Professional Engineering Design Services

Project Title

 **MISSISSAUGA**

**COMFORT STATION
JACK DARLING
MEMORIAL PARK**

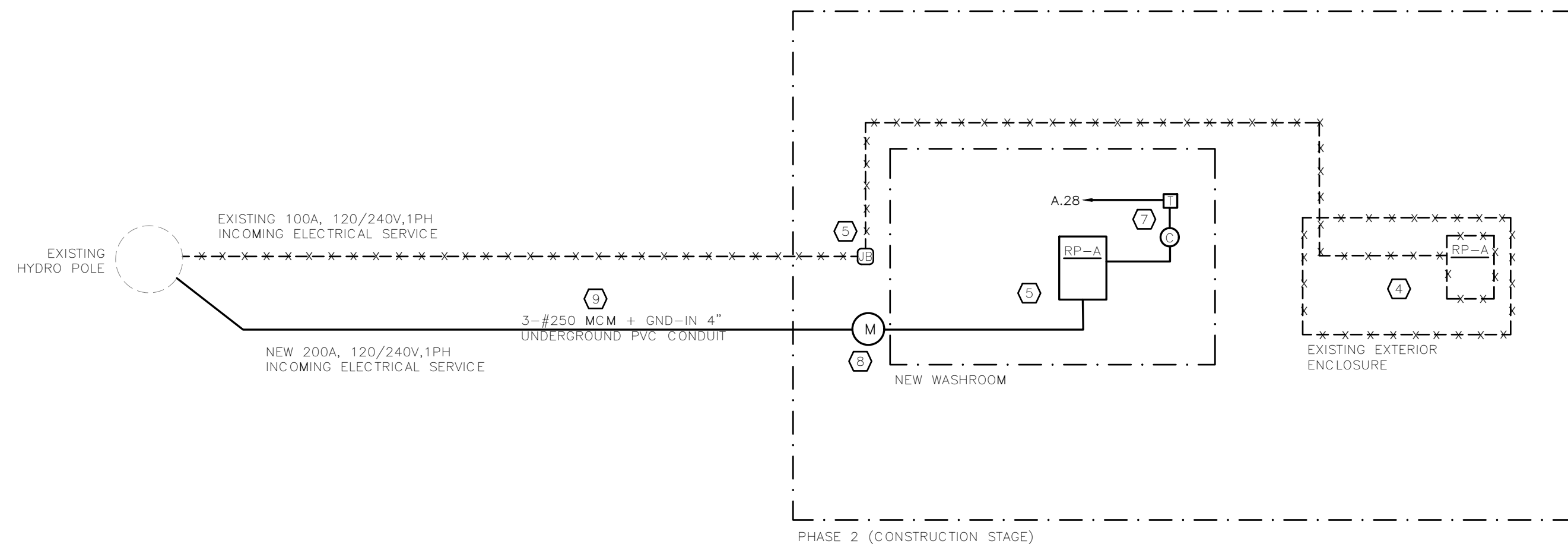
1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

Sheet Title

**ELECTRICAL
DEMOLITION LAYOUT**

Project Number	24-123
Date	OCTOBER 2025
Drawn	N.Y.
Checked	F.R.B.
Scale	AS SHOWN
Drawing Number	

E101

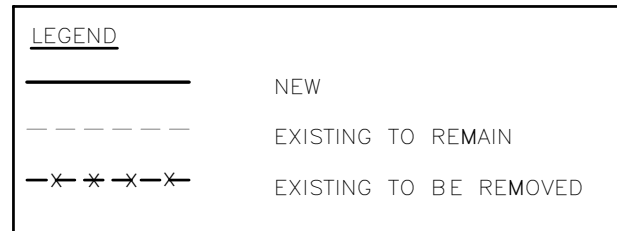


LOAD SUMMARY			
TYPE OF LOAD	CONNECTED LOAD (kW)	DEMAND FACTOR	DEMAND LOAD (kW)
MECHANICAL	35.0	0.7	25
ELECTRIC HEATING	10.0	0.7	7.0
LIGHTING	2.0	1.0	2.0
MISCELLANEOUS	2.0	0.7	1.4
TOTAL (kW)		TOTAL (kW)	35.4

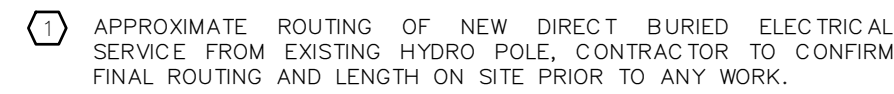
- ⑦ EXISTING ELECTRICAL PANEL INSIDE THE EXISTING WASHROOM SHALL BE REMOVED AND TEMPORARILY RELOCATED INSIDE AN EXTERIOR ENCLOSURE TO PROVIDE TEMPORARY POWER FOR CONSTRUCTION PHASE.
- ⑦ EXTEND EXISTING WIRING AND CONDUITS TO SUIT NEW LOCATION OF TEMPORARILY ELECTRICAL PANEL.
- ⑦ PROVIDE A WEATHERPROOF EXTERIOR ENCLOSURE TO TEMPORARILY INSTALL THE EXISTING ELECTRICAL PANEL. PROVIDE ALL REQUIRED MOUNTING ACCESSORIES TO SUIT. LOCATION TO BE CONFIRMED ON SITE.
- ⑦ EXISTING ELECTRICAL PANEL AND EXTERIOR ENCLOSURE SHALL BE REMOVED.
- ⑦ EXISTING 100A, 120/240V, 1PH ELECTRICAL PANEL SHALL BE REMOVED.
- ⑦ NEW 200A, 120/240V, 1PH ELECTRICAL SERVICE. CONTRACTOR TO ALLOW FOR ALL REQUIRED COORDINATION WITH HYDRO'S REPRESENTATIVES.
- ⑦ PROVIDE ON/OFF DIGITAL TIME CLOCK TO TURN THE GENERAL LIGHT FIXTURES ON/ OFF. PROVIDE ALL REQUIRED WIRING, CONDUITS AND CONTACTORS TO SUIT. COORDINATE HOURS OF OPERATIONS WITH CLIENT'S REPRESENTATIVE.
- ⑦ NEW HYDRO METER TO SUIT LOCAL HYDRO'S REQUIREMENTS.
- ⑦ PROVIDE AN ITEMIZED PRICE TO SUPPLY AND INSTALL NEW UNDERGROUND FEEDER, REFER TO "NOTE RE: ELECTRICAL ITEMIZED PRICE #1" FOR MORE DETAILS.

A. EXISTING INCOMING ELECTRICAL SERVICE IS BEING FED FROM AN EXISTING HYDRO POLE (ALECTRA) LOCATED IN PARKLAND AVENUE, REFER TO SITE PLAN DRAWINGS FOR DETAILS.

A. CONTRACTOR SHALL PROVIDE AN ITEMIZED PRICE FOR SUPPLYING AND INSTALLING THE NEW UNDERGROUND WIRING AND CONDUIT [3-#250 MCM + GND-IN 4" UNDERGROUND PVC CONDUIT] FROM THE HYDRO POLE TO THE NEW HYDRO METER. INCLUDE THIS COST IN THE BID SUMMARY.

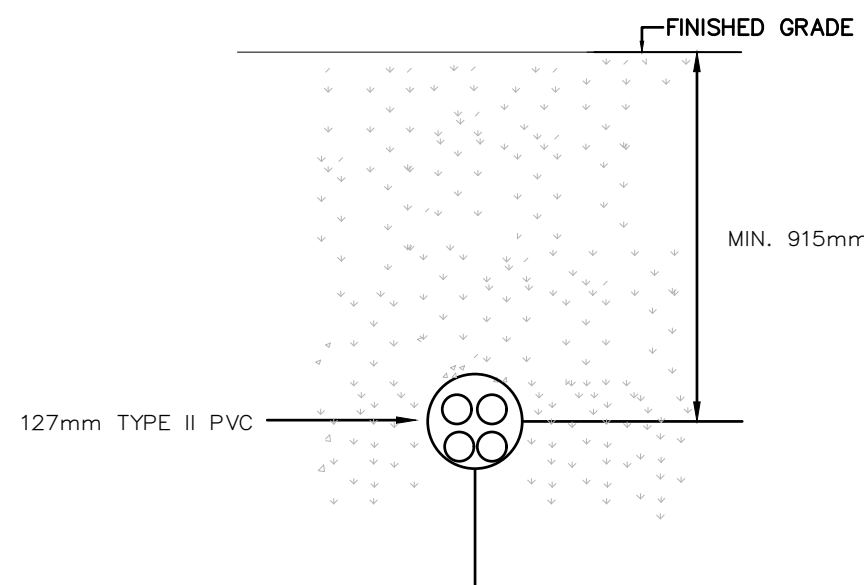


ELECTRICAL DISTRIBUTION DIAGRAM



1. COORDINATE FINAL CONNECTION OF PRIMARY WIRING WITH HYDRO'S REPRESENTATIVE.
2. COORDINATE FINAL ROUTING OF INCOMING ELECTRICAL SERVICE WITH HYDRO'S REPRESENTATIVE.
3. COORDINATE FINAL LOCATION OF NEW HYDRO METERS WITH HYDRO'S REPRESENTATIVE.
4. SCHEDULE AND SUBMIT ESA INSPECTION AND CERTIFICATION PRIOR TO HYDRO METER INSTALLATION AND SERVICE ENERGIZATION.
5. ALL UNDERGROUND WIRING IS TO BE RWU (UNLESS OTHERWISE NOTED) - NO ALTERNATES WILL BE ACCEPTABLE.
6. CONTRACTOR TO CONFIRM EXACT LOCATION OF HYDRO POLE WITH HYDRO'S REPRESENTATIVE (ALEC TRA).
7. CONTRACTOR TO ALLOW FOR ALL COORDINATIONS WITH HYDRO'S REPRESENTATIVES FOR ALL REQUIRED SHUT-DOWNS.

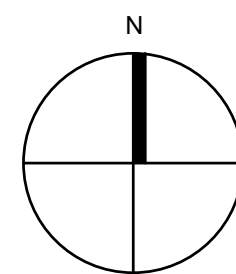
1. CONTRACTOR TO CONFIRM THE DIRECT BURIAL CONFIGURATION AND INSTALLATION WITH THE ESA REPRESENTATIVE ESA REQUIREMENTS.
2. DIRECT BURIED INSTALLATION INSIDE PVC CONDUITS TO BE COMPLIANCE WITH 2021 ONTARIO ELECTRICAL SAFETY CODE (OESC), TABLE D10A AND DIAGRAM D10. WHERE ANY CONTRADICTION EXISTS BETWEEN THIS DETAIL AND THE OESC, THE OESC DIMENSIONS GOVERN.
3. A CHANGE IN ANY ONE OR MORE INSTALLATION CONDITIONS OR CABLES CONSTRUCTION WILL RESULT IN A CHANGE IN MAXIMUM INSULATED CONDUCTOR AMPACITY. COORDINATE ALL REQUIREMENTS WITH OESC TABLE D17.



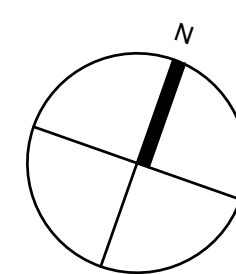
FOUR SINGLE SHIELDED CONDUCTOR CABLES IN CONTACT IN BURIED CONDUIT



APPROXIMATE LOCATION OF
EXISTING ALECTRA'S HYDRO
POLE



PROJECT NORTH



TRUE NORTH

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JLK:ENGINEERING

Professional Engineering Design Service

Project Title



COMFORT STATION
JACK DARLING
MEMORIAL PARK

1180 LAKESHORE RD. W. MISSISSAUGA, ON. L5H 3G7

Sheet Title

ELECTRICAL DISTRIBUTION DIAGRAM AND SITE PLAN

Project Number 24-123

Date OCTOBER 2025

Drawn N.Y.

Checked _____ F.R.B. _____

Scale AS SHOWN

Drawing Number

E102

