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Port Glasgow Trailer Park Seasonal Office and Shower Facility

8650 Furnival Rd, Rodney, ON N0L 2C0



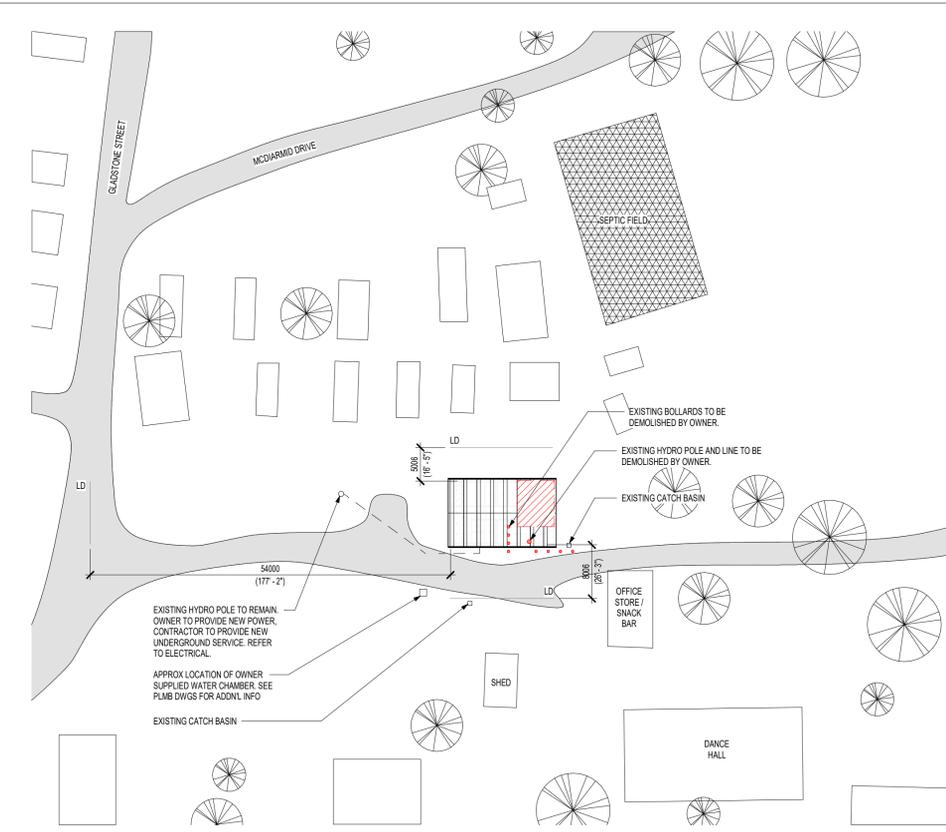
Project No. 25043
Revision No.
Issue
Date 2026-02-20
2:27:40 PM



STRUCTURAL ENGINEER
**VanBoxmeer & Stranges
Engineering Limited**
1108 Dundas St., Suite 104
London, Ontario N5W 3A7



MECHANICAL & ELECTRICAL
ENGINEER
**Jilani and Asuncion Consulting
Engineers**
156 Oxford St. W.,
London ON, N6H 1S1



1 Key Plan
1:500



SITE MAP

GENERAL AND DEMOLITION NOTES:

- Drawings are not to be scaled. Contractor will verify all existing conditions and dimensions required to perform the Work and will report any discrepancies with the Contract Documents to the Architect before commencing work.
- The Architectural Drawings are to be read in conjunction with all other Contract Documents including the Project Manuals and the Structural, Mechanical and Electrical Drawings. In cases of difference between the Consultants' documents with respect to the quantity, sizes or scope of work, the greater shall apply.
- Positions of exposed or finished Mechanical or Electrical devices, fittings and fixtures are indicated on the Architectural Drawings. Locations shown on the Architectural Drawings shall govern over Mechanical and Electrical Drawings. Mechanical and Electrical items not clearly located will be located as directed by the Architect.
- Dimensions indicated are taken between the faces of finished surfaces unless otherwise noted.
- Site verify all dimensions, conditions, and levels on site prior to fabrications and installations.
- All discrepancies between conditions shown and site conditions are to be reported to the architect.
- The architect has not been retained for supervision of construction and assumes no responsibility for means, methods and techniques of construction.
- These documents are not to be used for construction unless specifically noted for such purpose.
- Owner is responsible for all site works.
- Contractor is responsible for all demolition of existing washroom building.
- A demolition permit is required for the demolition of the existing washroom building. Contractor is responsible for obtaining and paying for demolition permit.

TEAM DIRECTORY	
Owner	Municipality of West Elgin 22413 Hoskins Line, Rodney ON N0L 2C0
Architect	G architects Inc. 1490 Richmond Street, Suite 305, London, ON N6G 0J4
Mechanical & Electrical...	Jilani and Asuncion Consulting Engineers 156 Oxford St. W., London ON, N6H 1S1
Structural Engineer	VanBoxmeer & Stranges Engineering Limited 1108 Dundas St., Suite 104 London, Ontario N5W 3A7

DRAWING LIST - 00 - MATRIX	
Sheet No.	Sheet Name
24 x 36	
A0.00 SERIES - GENERAL	
A 0.01	COVER SHEET
A 0.02	PROJECT INFORMATION
A 0.03	ARCHITECTURAL INFO
A 10.01	SPECIFICATIONS
A 10.02	SPECIFICATIONS
A 10.03	SPECIFICATIONS
A1.40 SERIES - DEMOLITION DRAWINGS	
A 1.40	DEMOLITION NOTES AND INFORMATION
A2.10 SERIES - FRAMING FLOOR PLANS	
A 2.10	LEVEL 1 - FRAMING PLAN
A2.30 SERIES - FINISH PLANS	
A 2.31	LEVEL 1 - FINISH PLAN
A3.00 SERIES - REFLECTED CEILING PLANS	
A 3.01	ROOF PLAN AND RCP
A5.00 SERIES - EXTERIOR ELEVATIONS	
A 5.00	BUILDING ELEVATIONS
A6.00 SERIES - EXTERIOR ENVELOPE	
A 6.00	BUILDING & WALL SECTIONS
A7.00 SERIES - INTERIOR	
A 7.20	ENLARGED FLOOR PLANS
A 7.40	INTERIOR ELEVATIONS
A8.00 SERIES - MILLWORK	
A 8.00	MILLWORK AND TYPICAL MOUNTING HEIGHTS
A9.00 SERIES - DOORS / WINDOWS / SCREENS	
A 9.00	DOOR AND WINDOW SCHEDULE

STRUCTURAL DRAWING LIST	
Sheet No.	Sheet Name
S1.0	FOUNDATION PLAN
S1.1	ROOF FRAMING PLAN
S2.1	SCHEDULES
S3.1	ELEVATIONS
S4.1	SECTIONS

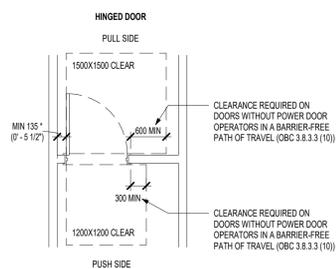
MECHANICAL DRAWING LIST	
Sheet No.	Sheet Name
M100	LEGEND, ABBREVIATIONS & DRAWING LIST
M200	MECHANICAL SPECIFICATIONS
M201	MECHANICAL SPECIFICATIONS
M300	FLOOR PLAN - MECHANICAL
M400	DETAILS AND DIAGRAMS
M500	MECHANICAL SCHEDULES

ELECTRICAL DRAWING LIST	
Sheet No.	Sheet Name
E0.1	SCHEDULES, NOTES AND LEGENDS
E0.2	ELECTRICAL SPECIFICATIONS
E2.1	FLOOR PLAN - LIGHTING
E2.2	FLOOR PLAN - POWER
E3.1	PANEL SCHEDULE & SINGLE LINE DIAGRAM

ABBREVIATIONS

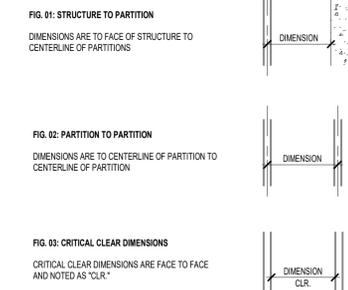
ADD	ADDENDUM	HB	HOSE BIB	S	SNK
AFF	ABOVE FINISHED FLOOR	HWR	HARDWARE	SA	SUPPLY AIR
AL	ALUMINUM	HK	HOOK	SBN	FOLD UP SHOWER BENCH
ANO	ANODIZED	HM	HOLLOW METAL	SCB	STRUCTURAL CONCRETE BLOCK MASONRY
ANDB	ANODIZED BLACK	HOR	HORIZONTAL	SD	SCHEDULE
AP	ACCESS PANEL	HPL	HIGH PRESSURE LAMINATE	SCN	SCONCE
APPROX	APPROXIMATE	HSS	HOLLOW STEEL SECTION	SCT	SHOWER CURTAIN SYSTEM
ARCH	ARCHITECTURAL	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	SDI	SOAP DISPENSER
AUTO	AUTOMATIC	IGU	INSULATED GLAZING UNIT	SH	SHOWER HEAD
AVB	AIR/VAPOUR BARRIER	INS	INSULATION	SM	SIMILAR
BCS	BABY CHANGE STATION	INS GL	INSULATING GLASS	SJF	SEALANT
BN	BENCH	INT	INTERIOR	SM	SURFACE MOUNTED LIGHT
BO or B/O	BOTTOM OF	JOINT	JOINT	SND	SANITARY NAPKIN DISPOSAL
BOS	BOTTOM OF SLAB	LT	LAVATORY	SO	SO
BRSH	BRUSHED STAINLESS STEEL	L	LAVATORY	SOG	SLAB ON GRADE
BS	BASE BOARD	LAM	LAMINATE	SPEC	SPECIFICATION
BS	BOTH SIDES	LUM	LUMBER	SSMR	STANDING SEAM METAL ROOF
BS	BOTH SIDES	LVT	LUXURY VINYL TILE	SSST	STAINLESS STEEL
CIP	CAST-IN-PLACE CONCRETE	MAX	MAXIMUM	STL	STEEL
CL	CENTRE LINE	MC	MECHANICAL CLEANOUT	STRUCT	STRUCTURAL
CLG	CEILING	MEF	MEDIUM DENSITY FIBREBOARD	SUSP	SUSPENDED
CLR	COLOR	MECH	MECHANICAL	TGL	TEMPERED GLASS
CMBD	CEMENT BOARD	MI	MIRROR	THK	THICK
CMU	CONCRETE MASONRY UNIT	MN	MIRIAM	TM	TRIM
CONC	CONCRETE	MISC	MISCELLANEOUS	TO or T/O	TOP OF
CONT	CONTINUOUS	MNF	MANUFACTURERS FACTORY FINISH	TOC	TOP OF CURB
CPAV	CONCRETE PAVER	MO	MASONRY OPENING	TOS	TOP OF SLAB
CT	CERAMIC TILE	MRT	MIRROR	TOD	TOP OF DRAIN
CW	COMPLETE WITH	MSF	METAL STUD FRAMING	TOW	TOP OF WALL
DB	DRAINAGE BARRIER	MSFT	METAL SOFFIT	TPN	TOILET PAPER DISPENSER
DEMO	DEMOLITION	MTL	METAL	TPP	TYPICAL
DI	DIAMETER	MW	MILLWORK	W	WINDOW
DIM	DIMENSION	MWI	MINERAL WOOL INSULATION	WI	WITH
DIV	DIVISION	NIC	NOT IN CONTRACT	WCT	WOOD CEILING TILE
DWG(S)	DRAWING(S)	NO	NUMBER	WC	WATER CLOSET
EA	EACH	NS	NOT SLIP	WD	WOOD
ELEC	ELECTRICAL	NTS	NOT TO SCALE	WDC	WOOD CEILING
ELEV	ELEVATION	OC or O/C	ON CENTRE OVERHEAD	WJS	WOOD JOIST STRUCTURE LAYER
EM	ENTRANCE MAT	OH or O/H	OVERHEAD	WL	WALL LIGHT
EPG	EPOXY COATING	OPN	OPENING IN PARTITION / WALL	WO	WITHOUT
EPS	EXPANDED POLYSTYRENE	PB	PUSH BUTTON	WR	WASHROOM
EPT	EXTERIOR PAINT FINISH	PL	PLASTIC LAMINATE	WS	WEATHER STRIPPING
EQ	EQUAL	PLY	PLYWOOD	WSD	WOOD SIDING
ES	EXIT SIGN	PORC	PORCELAIN	WTS	WOOD TRUSS STRUCTURE LAYER
EXG	EXISTING	PRE	PRECAST CONCRETE	UNO	UNLESS NOTED OTHERWISE
EXT	EXTERIOR	PREFAB	PREFABRICATED	US or US	UNDERSIDE
FA	FIRE ALARM	PSF	POUNDS PER SQUARE FOOT	VB	VAPOUR BARRIER
FC	FIBRE CEMENT	PSI	POUNDS PER SQUARE INCH	VERT	VERTICAL
FDN	FOUNDATION	PST	PRESSED STEEL	VL	VOLUME
FE	FIRE EXTINGUISHER	PSTR	PRESSED STEEL RATED	VR	VAPOUR RETARDER
FEE	FINISH FLOOR ELEVATION	PT	GENERIC PAINT FINISH SYSTEM	XRL	EXTERIOR GRADE PL WOOD
FGL	FIBREGLASS	PTL	EPOXY PAINT FINISH SYSTEM	XPS	EXTRUDED POLYSTYRENE
FN	FINISH	PTB	PROTECTION BOARD		
FD	FLOOR DRAIN	PTD	PAPER TOWEL DISPENSER		
FLM	GLAZING FILM	PTWR	PAPER TOWEL DISPENSER / WASTE RECEPTACLE		
FRP	FIBRE REINFORCED PLASTIC	PWR	POWDER COATED PAINT SYSTEM		
FRR	FIRE RESISTANCE RATING	RB	RUBBER BASE		
FT	FEET	RCP	REFLECTED CEILING PLAN		
FUR	FURRING	REF	REFERENCE		
GALV	GALVANIZED PRESSED STEEL	RENO	RENOVATION		
GB	GRAB BAR	REQ	REQUIRED		
GL	GLASS	REV	REVISION		
GRVL	GRAVEL	RM	ROOM		
GWB	GYPSPUM WALLBOARD	RSLF	RECESSED SHOWER SHELF		
GWB-X	FIRE RATED GYPSPUM WALL BOARD	RUB	RUBBER		
GYP	GYPSPUM	RWL	RAIN WATER LEADER / DOWNSPOUT		

DOOR LOCATION DIAGRAM



NOTES:
*MINIMUM 135mm BETWEEN DOOR PANEL AND FACE OF WALL UNLESS OTHERWISE NOTED

DIMENSIONING DIAGRAM



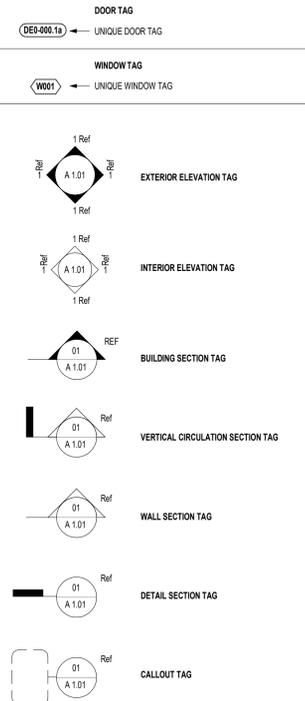
ALERT CONSULTANT OF ANY DISCREPANCY IN DIMENSIONS. DO NOT SCALE DRAWINGS.

EXISTING WASHROOM BUILDING TO BE DEMOLISHED



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ANNOTATION LEGEND



ROOM NAME	ROOM TAG
0000.0	
X	FINISH TAG
△	REVISION TAG
◆ 100,000	SPOT EXTERIOR ELEVATION TAG
0000	LEVEL HEAD
LEVEL 2	
⊙	GRID HEAD

1	February 20, 2026	Issued for Tender and Permit	G
#	Date	Revision	By



All drawings and specifications are the property of the Architect. The Contractor shall verify all dimensions and information on site and report and discrepancy to the Architect before proceeding.

Port Glasgow Trailer Park Seasonal Office and Shower Facility
8650 Furnival Rd, Rodney, ON N0L 2C0
Client: Municipality of West Elgin
Project No.: 25043

PROJECT INFORMATION

Scale	As indicated
Drawn By	HS
Reviewed By	DD/PG
Revision No.	1
Plot Date	2026-02-20

Drawing No. **A 0.02**

EXTERIOR WALL ASSEMBLIES		EXTERIOR CLADDING TYPE LEGEND*		EXTERIOR WALL STRUCTURE TYPE LEGEND*		NOTES
EXTERIOR WALL ASSEMBLY TAG LEGEND EW-x FS SCB x = WALL ASSEMBLY TYPE # FS = EXTERIOR CLADDING TYPE SCB = EXTERIOR WALL STRUCTURE TYPE		EXTERIOR CLADDING TYPE LEGEND* FS MINERAL FIBRE CEMENT SIDING MS METAL SIDING WSD WOOD SIDING		EXTERIOR WALL STRUCTURE TYPE LEGEND* SCB STRUCTURAL CONCRETE BLOCK		1. REFER TO STRUCTURAL DOCUMENTS FOR ALL ITEMS NOTED AS "STRUCTURAL"
SYMBOL	FRR (HR) ULCF (eULF)	R-VALUE	CONSTRUCTION	DESCRIPTION		
EW-1a	1.5 HR FC SCB			13mm HOR. FIBRE CEMENT LAP SIDING AIR SPACE WITH WOOD STRAPPING AIR/VAPOUR BARRIER MEMBRANE (AVB-1) STRUCTURAL CONCRETE BLOCK. REFER TO STRUCTURAL FOR THICKNESS		1. REFER TO CODE MATRIX AND FIRE SEPARATION PLAN FOR EXTERIOR WALLS WHICH REQUIRE FRR. NORTH FACADE REQUIRES 45MIN FRR.

INTERIOR CONCRETE BLOCK PARTITION ASSEMBLIES		CONC. BLOCK PARTITION ASSEMBLY TYPE LEGEND*		NOTES
INTERIOR CONC. BLOCK PARTITION TAG LEGEND PB-x [200] x = CONC. BLOCK ASSEMBLY TYPE # CONC. BLOCK UNIT SIZE (mm)		CONC. BLOCK PARTITION ASSEMBLY TYPE LEGEND* PB CONC. BLOCK PARTITION XB FIRE RESISTANCE RATED CONC. BLOCK PARTITION (NON-LOADBEARING)		1. NOT ALL INSTANCES USED IN PROJECT 2. REFER TO STRUCTURAL DOCUMENTS FOR ALL ITEMS NOTED AS "STRUCTURAL" 3. ALL CONCRETE BLOCK PARTITIONS TO EXTEND TO UNDERSIDE OF STRUCTURE
SYMBOL	FRR (HR) ULCF (eULF)	STC RATING	CONSTRUCTION	DESCRIPTION
PB-1	150	50		STRUCTURAL UNIT MASONRY
				UNLESS OTHERWISE NOTED EXPOSED BLOCK TO BE PAINTED ALL VERTICAL OR HORIZONTAL CORNERS TO BE BULLNOSE BLOCK

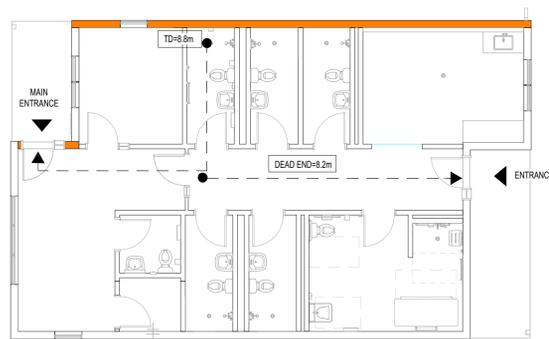
INTERIOR GWB PARTITION ASSEMBLIES		GWB PARTITION ASSEMBLY TYPE LEGEND*		FRAMING SYSTEM DESIGNATION LEGEND*		NOTES
INTERIOR GWB PARTITION TAG LEGEND PB-x [150] x = GWB PARTITION ASSEMBLY TYPE # FRAMING MEMBER SIZE NUMBER DENOTES ACOUSTIC ASSEMBLY		GWB PARTITION ASSEMBLY TYPE LEGEND* F FURRING L STRUCTURAL PARTITION (LOAD BEARING) P PARTITION		FRAMING SYSTEM DESIGNATION LEGEND* DESIGNATION 1 FRAMING SYSTEM LAMINATED TO SUBSTRATE 2 ACOUSTIC RESILIENT CHANNEL 19mm SOLID WOOD STRAPPING 22mm METAL PART CHANNEL 3 METAL STUD WOOD STUD 4 42mm / 1 5/8" 2" / 38mm 6 64mm / 2 1/2" 3" / 76mm 9 92mm / 3 5/8" 4" / 102mm 10 102mm / 4" 4" / 102mm 15 152mm / 6" 8" / 140mm 20 203mm / 8" 8" / 184mm		1. ALL PARTITIONS EXTEND TO 100mm ABOVE FINISHED CEILING UNLESS NOTED OTHERWISE 2. REFER TO STRUCTURAL DOCUMENTS FOR ALL ITEMS NOTED AS "STRUCTURAL" 3. REFER TO ACOUSTIC WALL ASSEMBLY ARTICLE OF SPECIFICATION SECTION 09 21 16 FOR ALL ASSEMBLIES DENOTED AS "ACOUSTIC" 4. REFER TO GYPSUM WALL BOARD SCHEDULE IN SPECIFICATION SECTION 09 21 16 FOR ROOMS TO RECEIVE MOISTURE-RESISTANT GYPSUM WALL BOARD
SYMBOL	FRR (HR) ULCF	STC RATING	CONSTRUCTION	DESCRIPTION		
PB-1				92mm METAL STUDS @ 409MM O.C. 16mm GWB TYPE X		

CEILING ASSEMBLIES		CEILING MEMBRANE MATERIAL LEGEND*		NOTES
CEILING ASSEMBLY TAG LEGEND ACTx [2440] x = CEILING MEMBRANE ELEVATION AFF (mm)		CEILING MEMBRANE MATERIAL LEGEND* ACTx ACOUSTIC PANEL CEILING. x = ACT TYPE # EXP EXPOSED STRUCTURE - NO CLG MEMBRANE GWBx GYPSUM WALL BOARD. x = GWB CEILING TYPE # WCPx WOOD CEILING. x = WOOD TYPE #		1. REFER TO STRUCTURAL DOCUMENTS FOR ALL ITEMS NOTED AS "STRUCTURAL" 2. REFER TO GYPSUM WALL BOARD SCHEDULE IN SPECIFICATION SECTION 09 21 16 FOR ROOMS TO RECEIVE MOISTURE-RESISTANT GYPSUM WALL BOARD
SYMBOL	FRR (HR) ULCF	STC RATING	CONSTRUCTION	DESCRIPTION
GWB-1				38mm METAL FURRING CHANNEL FASTENED TO UNDERSIDE OF TRUSSES 6ml VAPOUR BARRIER 13mm MOISTURE RESISTANT GYPSUM BOARD
FC				38mm METAL FURRING CHANNEL FASTENED TO UNDERSIDE OF TRUSSES 7mm FIBRE CEMENT SOFFIT (VENTED AT SOME LOCATIONS)

FLOOR ASSEMBLIES		FLOOR ASSEMBLY TAG LEGEND		FLOOR ASSEMBLY STRUCTURE LEGEND*		TOPPING MATERIAL**		NOTES
FLOOR ASSEMBLY TAG LEGEND FL-x [300] x = FLOOR ASSEMBLY TYPE # STRUCTURE TOPPING MATERIAL		FLOOR ASSEMBLY STRUCTURE LEGEND* SOG SLAB ON GRADE		TOPPING MATERIAL** - NO TOPPING S STRUCTURAL TOPPING F FINISH TOPPING				1. REFER TO STRUCTURAL DOCUMENTS FOR ALL ITEMS NOTED AS "STRUCTURAL" 2. REFER TO FLOOR FINISH SPECIFICATION FOR ALL ITEMS DENOTED AS "FINISH TOPPING"
SYMBOL	FRR (HR) ULCF (eULF)	STC RATING	CONSTRUCTION	DESCRIPTION				
FL-1a	300			STRUCTURAL CAST-IN-PLACE CONCRETE SLAB ON GRADE UNDERSLAB VAPOUR RETARDER (AVB-5) CLEAR STONE CAPILLARY BREAK UNDISTURBED SOIL OR ENGINEERED FILL (REFER TO STRUCTURAL)				REFER TO STRUCTURAL DRAWINGS FOR SLAB THICKNESS FINISH TOPPING SLOPED TO DRAIN

ROOF ASSEMBLIES		ROOF ASSEMBLY TAG LEGEND		ROOF MEMBRANE TYPE LEGEND		ROOF STRUCTURE TYPE LEGEND*		NOTES
ROOF ASSEMBLY TAG LEGEND RF-x [150] x = ROOF ASSEMBLY TYPE # ROOF MEMBRANE TYPE ROOF STRUCTURE TYPE		ROOF MEMBRANE TYPE LEGEND SSMR STANDING SEAM METAL ROOF ASPH ASPHALT SHINGLES		ROOF STRUCTURE TYPE LEGEND* SWD STRUCTURAL WOOD FRAMING (PRE ENGINEERED WOOD TRUSSES)				1. REFER TO STRUCTURAL DOCUMENTS FOR ALL ITEMS NOTED AS "STRUCTURAL"
SYMBOL	FRR (HR) ULCF (eULF)	R-VALUE	CONSTRUCTION	DESCRIPTION				
RF-1		R-15		38mm STANDING SEAM METAL ROOFING ICE AND WATER SHIELD 16mm TONGUE AND GROOVE PLYWOOD PRE ENGINEERED WOOD TRUSSES (REFER TO BUILDING SECTIONS)				

CODE PLAN LEGEND		FIRE SEPARATIONS LEGEND	
TD-XXX	#M TRAVEL DISTANCE	0 HR FIRE RESISTANCE RATING	
EXIT	EXIT SIGN	3/4 HR FIRE RESISTANCE RATING	
FE	FIRE EXTINGUISHER	1 HR FIRE RESISTANCE RATING	
▲	BUILDING ENTRANCE / EXIT	1-1/2 HR FIRE RESISTANCE RATING	
CODE NOTES		2 HR FIRE RESISTANCE RATING	
1. 25M IS THE MAX TRAVEL DISTANCE TO egress as per section 9.8.7.4. of the OBC.		3 HR FIRE RESISTANCE RATING	
2. One Egress door is permitted as per section 9.8.7.4. of the OBC.		4 HR FIRE RESISTANCE RATING	
3. The Max dead end corridor permitted is 9M as per section 3.3.1.9. (9).		FIRE PROTECTED STRUCTURE LEGEND	
4. In discussions with AHJ the requirement for a bench in the Universal Washroom/Shower as per section 3.8.1.3 (5) (ii) will be met by the addition of the Adult Change Table which is of the same height and size.		NOTE: ALL SEPARATIONS NOTED AS HAVING A FIRE PROTECTED STRUCTURE RATING SHALL ALSO BE CONSTRUCTED AS A FIRE SEPARATION WITHOUT A FIRE RATING (0 HR) WITH RESPECT TO ALL PENETRATIONS AND TERMINATIONS WITH ADJACENT ASSEMBLIES	
5. Grading of material around exterior concrete slabs is to permit a barrier free path of travel that is 1100mm wide with a maximum slope that does not exceed 1 in 20. It is noted that there is not a barrier free sidewalk or pathway for the building to connect to currently, the graded path will slope to the adjacent road. Owner has noted that a barrier free sidewalk is a future project but is currently not in the scope of work.		3/4 HR FIRE RESISTANCE RATING	
		1 HR FIRE RESISTANCE RATING	
		2 HR FIRE RESISTANCE RATING	



1 Building Code Plan
1:100

Name of Practice:		G architects Inc. 1480 Richmond Street, Suite 305 London, Ontario N6G 0J4 www.garchitects.ca (519)473-6641		
Name of Project:		Port Glasgow Trailer Park Seasonal Office and Shower Facility		
Project Location:		8650 Furnival Rd, Rodney, Ontario, Canada		
Item	Building Code Matrix - Part 9	Building Code Reference		
0	Building Code Version: <u>Q. Reg. 163/24</u> Last Amendment: <u>Q. Reg. 447/24</u>	Part 11	Part 3	
1	Project Description: <input type="checkbox"/> New <input type="checkbox"/> Alteration <input type="checkbox"/> Change of Use	1.3.3.3B [A]	1.3.3.2 [A]	
2	Major Occupancy(s): Group D - Business and Personal Services (Office)	3.1.2.1 (I)	9.10.2	
3	Superimposed Major Occupancy(ies): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Description:	3.2.2.7	9.10.2.3	
4	Building Area: Existing: n/a New: 130 m2 Total: 130 m2	1.4.1.2 [A]	1.4.1.2 [A]	
5	Gross Area: Existing: n/a New: 130 m2 Total: 130 m2	1.4.1.2 [A]	1.4.1.2 [A]	
6	Mezzanine Area: Existing: n/a New: n/a Total: n/a	3.2.1.1	9.10.4.1	
7	Building Height: 1 storey Stores Above Grade: 1 Stores Below Grade: 0 (m) Above Grade: 4.8m	1.4.1.2 [A] & 3.2.1.1	1.4.1.2 [A] & 8.10.4	
8	High Building: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.6	N/A	
9	Number of Streets / Firefighter Access: 1 Street(s)	3.2.2.10 & 3.2.5	9.10.20	
10	Building Classification: n/a	3.2.2.20 - 93	N/A	
11	Sprinkler System Proposed: <input type="checkbox"/> Entire building <input type="checkbox"/> Selected compartments <input type="checkbox"/> Selected floor areas <input type="checkbox"/> Basement <input type="checkbox"/> In lieu of roof rating <input type="checkbox"/> Not required	3.2.2.20 - 93 3.2.1.5 3.2.2.18 3.2.5.12 - 14	9.10.2.4 3.2.4.7 (4)	
12	Standpipe Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.5.8 - 11	N/A	
13	Fire Alarm Proposed: <input type="checkbox"/> Single Stage <input type="checkbox"/> Two Stage <input type="checkbox"/> Not Required	3.2.4	9.10.18	
14	Water Service/Supply is Adequate: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.5.7	9.31.3	
15	Construction Restrictions: <input checked="" type="checkbox"/> Combustible permitted <input type="checkbox"/> Encapsulated mass timber permitted Actual Construction: <input type="checkbox"/> Combustible <input checked="" type="checkbox"/> Non-combustible <input type="checkbox"/> Combination of combustible and non-combustible <input type="checkbox"/> Encapsulated mass timber <input type="checkbox"/> Combination of encapsulated mass timber and non-combustible Heavy Timber Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	3.2.2.20 - 93 & 3.1.6	9.10.6 3.1.5 & 3.1.4.7	
16	Importance Category: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster <input type="checkbox"/> Low human occupancy <input type="checkbox"/> Minor storage building <input type="checkbox"/> Post-disaster shelter <input type="checkbox"/> Explosive or hazardous substances	4.1.2.1 (B) & 14.1.2.1	1.3.3.2 [A] & Part 4	
17	Seismic Category: Seismic Category: Seismic Class: Seismic design for Table 4.1.8.18, items 6 to 22: <input type="checkbox"/> Not Required <input type="checkbox"/> Required Reasons: 4.1.8.18	4.1.8.4 (1) 1.4.1.8.4 - 8 1.4.1.8.5 - 8	N/A	
18	Occupant Load Based On: Office Area: Laundry Area: Warehouses:	<input checked="" type="checkbox"/> m ² / person Occupancy = 30.9m ² /3 Occupancy = 16.3m ² /3 <input type="checkbox"/> Design of Building Load = 4 Load = 2 <input type="checkbox"/> m ² / person Occupancy = N/A Load = 7 persons	3.1.17 TABLE 3.1.17.1	
19	Barrier-free Design: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (explain)	3.8	9.5.2 & 3.8	
20	Barrier-free Entrances: Number - 2	3.8.1.2		
20	Hazardous Substances: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (explain)	3.3.1.2	9.10.1.3	
21	Required Fire Resistance Rating (FRR): Horizontal Assemblies FRR (Hours) Floors: Roof: Mezzanine: Stores below grade: Floors over basement: FRR of Supporting Members (Hours) Floors: Roof: Mezzanine: Stores below grade: Stores over basement:	Listed Design No. or Description (SB-2) 45 SLAB ON GRADE N/A NO RATING N/A NO RATING N/A NO STOREYS BELOW GRADE N/A NO FLOORS OVER BASEMENT 45 NO SUPPORTING MEMBERS N/A NO RATING N/A NO RATING N/A NO STOREYS BELOW GRADE N/A NO FLOORS OVER BASEMENT	3.2.2.20 - 93 3.2.1.2 3.2.1.4 3.2.2.15 3.2.2.1 3.2.1.5 3.2.2.1	9.10.8 & 9.10.11
22	Spatial Separation - Construction of Exterior Walls: Wall Area of EBF (m ²) Lim. Dist. (m) LH or HL Permitted Max % of Openings Proposed % of Openings FRR (hours) Listed Design or Description Type of Construction Permitted Type of Cladding Permitted	3.2.3	9.10.14, 9.10.15	
23	Plumbing Fixture Requirements: Male / Female Count @ 50 % / 50 %, except as noted otherwise Level 1: Office Area: Laundry Area: Barrier Free Plumbing Requirements: Fixtures Provided Barrier Free Required Barrier Free Provided Universal Free Required Universal Provided	Occupant Load 4 2 Fixtures Required 1 1 Fixtures Provided 1 (unisex) 7 (unisex)	3.7.4.7, 3.8.2.3 3.7.4.7, 3.7.4.7 (2) 3.7.4.7, 3.7.4.7 (2)	
24	Energy Efficiency: Compliance Path: Climatic Zone: Degree Days Below 18 C: Is there more than 1 dwelling unit per building? Option Implemented: Notes:	NOT APPLICABLE (BUILDING IS NOT HEATED) 12.2.1.2 SB-4 TABLE 2	12.2.1.2	
25	Sound Transmission Design: Notes:	SB-3, 5.8.1.1, 5.8.1.2 (2), 5.8.1.4, 5.8.1.5	5.8.1.1, 5.8.1.2, 5.8.1.4, 5.11.1.4	
26	Notes: See Code Notes			

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#	Date	Revision	By



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Port Glasgow Trailer Park Seasonal Office and Shower Facility
8650 Furnival Rd, Rodney, ON N0L 2C0
Client: Municipality of West Elgin
Project No.: 25043

ARCHITECTURAL INFO

Scale	As indicated	
Drawn By	HS	
Reviewed By	DD/PG	
Revision No.	1	
Plot Date	2026-02-20	

Drawing No. **A 0.03**

FRAMING PLAN LEGEND:



GENERAL NOTES

1. FLOOR PLANS TO BE READ IN CONJUNCTION WITH MECHANICAL, STRUCTURAL, CIVIL, ELECTRICAL, & LANDSCAPE DRAWINGS.

1	February 20, 2026	Issued for Tender and Permit	G
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Port Glasgow Trailer Park Seasonal Office and Shower Facility

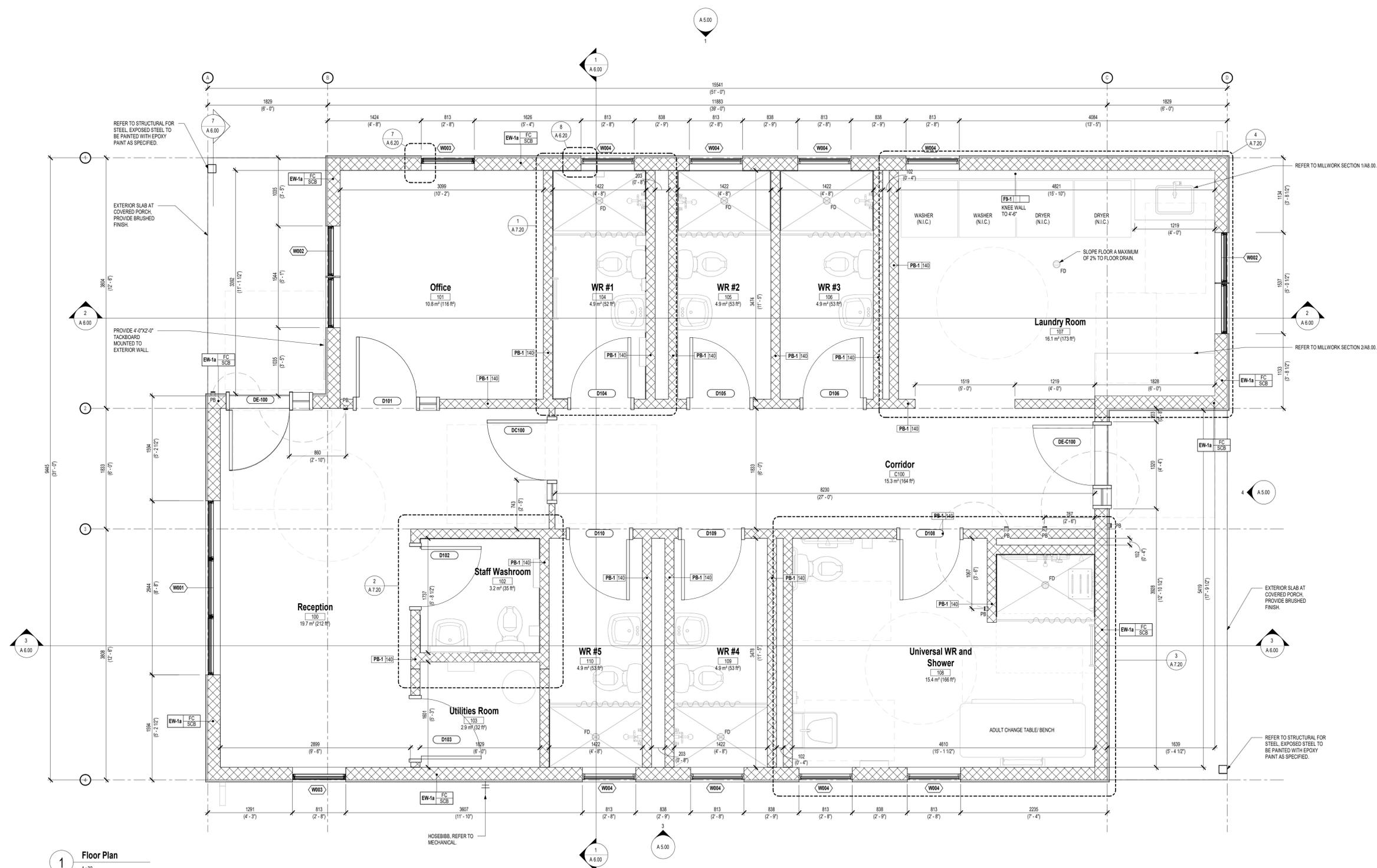
8650 Furnival Rd, Rodney, ON N0L 2C0
 Client: Municipality of West Elgin
 Project No.: 25043

LEVEL 1 - FRAMING PLAN

Scale	As indicated
Drawn By	HS
Reviewed By	DD/PG
Revision No.	1
Plot Date	2026-02-20

Drawing No.

A 2.10



1 Floor Plan
 1:30

ROOM FINISH SCHEDULE							
ROOM #	ROOM NAME	FLOOR	CEILING	WALL		FINISH NOTES	
		FINISH	FINISH	MATERIAL	BASE	FINISH	MATERIAL
LEVEL 1							
100	Reception	LVP	PT-01	GWB	RB	PT-01	CMU
101	Office	LVP	PT-01	GWB	RB	PT-01	CMU
102	Staff Washroom	SLNT	PT-01	GWB	RB	PT-01	CMU
103	Utilities Room	SLNT	-	EXP	RB	PT-01	CMU
104	WR #1	SLNT	PT-01	GWB	CT	PT-01/CT	CMU
105	WR #2	SLNT	PT-01	GWB	CT	PT-01/CT	CMU
106	WR #3	SLNT	PT-01	GWB	CT	PT-01/CT	CMU
107	Laundry Room	SLNT	PT-01	GWB	CT	PT-01/CT	CMU/GWB
108	Universal WR and Shower	SLNT	PT-01	GWB	CT	PT-01/CT	CMU
109	WR #4	SLNT	GWB	GWB	CT	PT-01/CT	CMU
110	WR #5	SLNT	GWB	GWB	CT	PT-01/CT	CMU
C100	Corridor	SLNT	PT-01	GWB	CT	PT-01	CMU

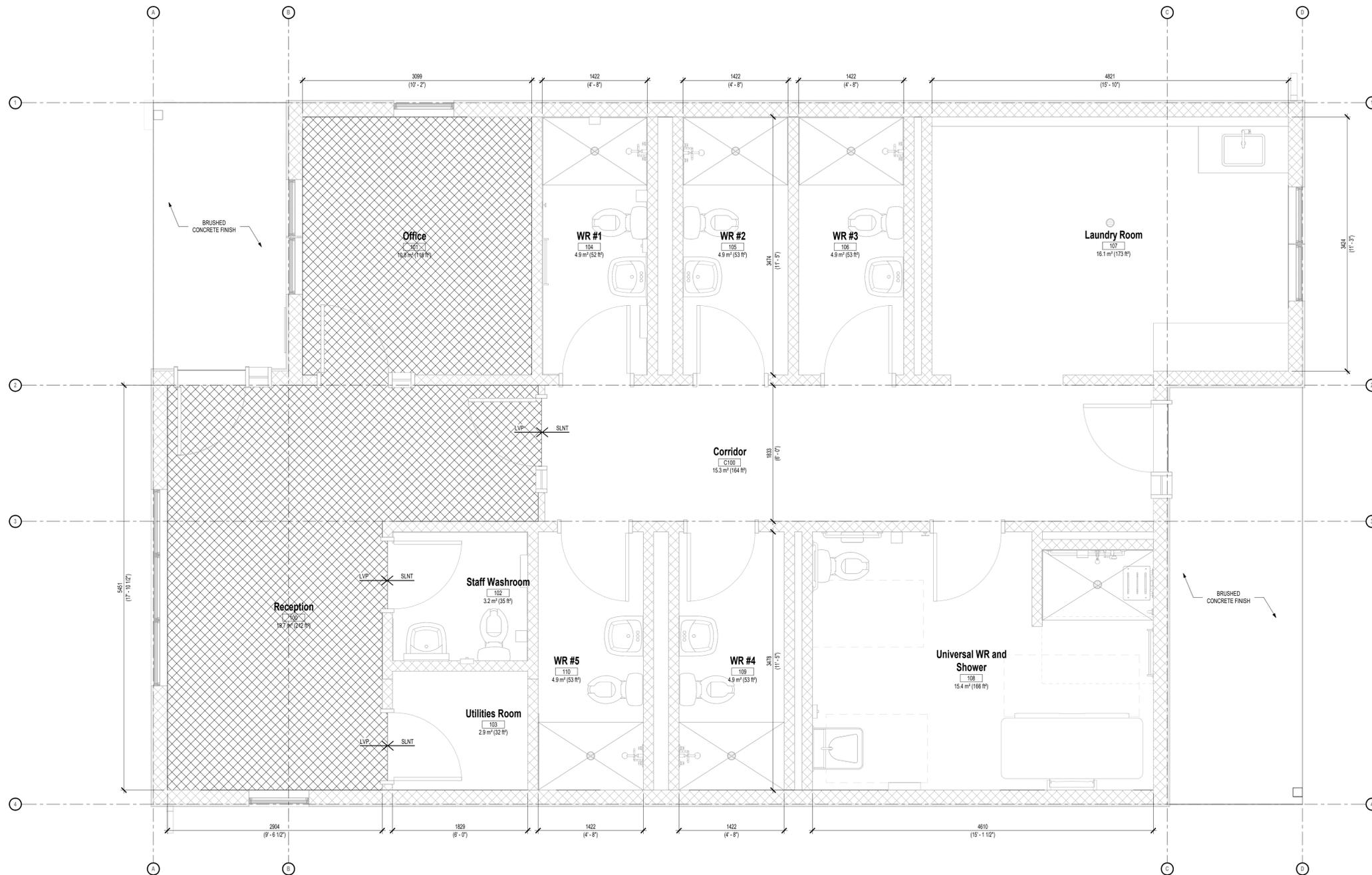
WALL / FLOOR / CEILING FINISHES & MATERIALS	
MARK	DESCRIPTION
WD	WOOD CEILING
EXP	EXPOSED CEILING
GWB	GYPSUM WALL BOARD
PT	PAINT FINISH
PT-E	EPOXY PAINT FINISH
CT	CERAMIC TILE
LVP	LUXURY VINYL PLANK
SLNT	SEALANT (CONCRETE SLAB)
RB	RUBBER BASE

FINISHING NOTES:

- AT ALL EXPOSED EDGES OF CERAMIC TILE (WALL TILE AND BASE), PROVIDE SCHLUTER STAINLESS STEEL EDGE PROTECTION.
- AT ALL TRANSITIONS BETWEEN INTERIOR FLOORING, PROVIDE BARRIER FREE TRANSITION.
- SLOPE SOG TO DRAIN (REFER TO A2.10 AND PLMB DWGS FOR LOCATIONS AND SIZES).
- PROVIDE SLIP MATS TO SUIT SHOWERS DIMENSIONS, REFER TO ENLARGED PLANS ON A7.20.
- REFER TO INTERIOR ELEVATIONS ON A7.40 FOR LOCATION OF WALL TILE.

FINISH LEGEND:

-  LUXURY VINYL PLANK
-  SEALANT (CONCRETE SLAB)



1 LEVEL 1 - FINISHED FLOOR PLAN
1:30

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LEVEL 1 - FINISH PLAN

Scale	As indicated
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Reviewed By	DD/PG
Revision No.	1
Plot Date	2026-02-20



Drawing No. **A 2.31**

REFLECTED CEILING PLAN LEGEND:

	PAINTED GYPSUM BOARD
	TONGUE AND GROOVE WOOD SOFFIT
	EXPOSED CEILING

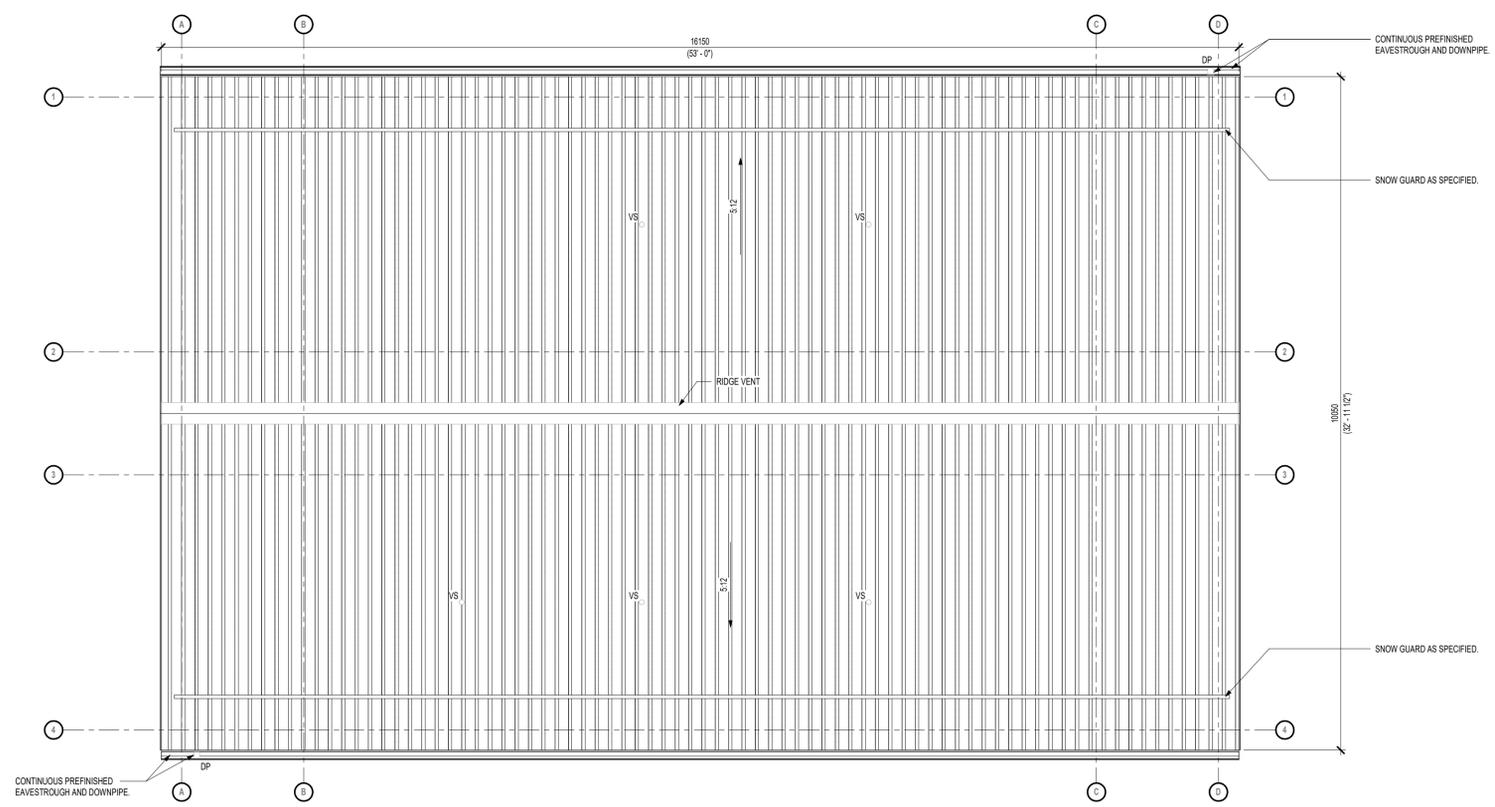
ELECTRICAL FIXTURES

	POTLIGHTS / CANS
	POTLIGHT (SQUARE OR CIRCULAR PROFILE. REFER TO ELECTRICAL)
	RECESSED PANEL LIGHT
	SUSPENDED LIGHT
	SURFACE MOUNTED LIGHT
	WALL MOUNTED FIXTURES
	WALL MOUNTED LIGHT
	EXIT & EMERGENCY LIGHTING
	EMERGENCY LIGHT
	FIRE SAFETY & DETECTION
	SMOKE / HEAT DETECTOR
	CARBON MONOXIDE DETECTOR

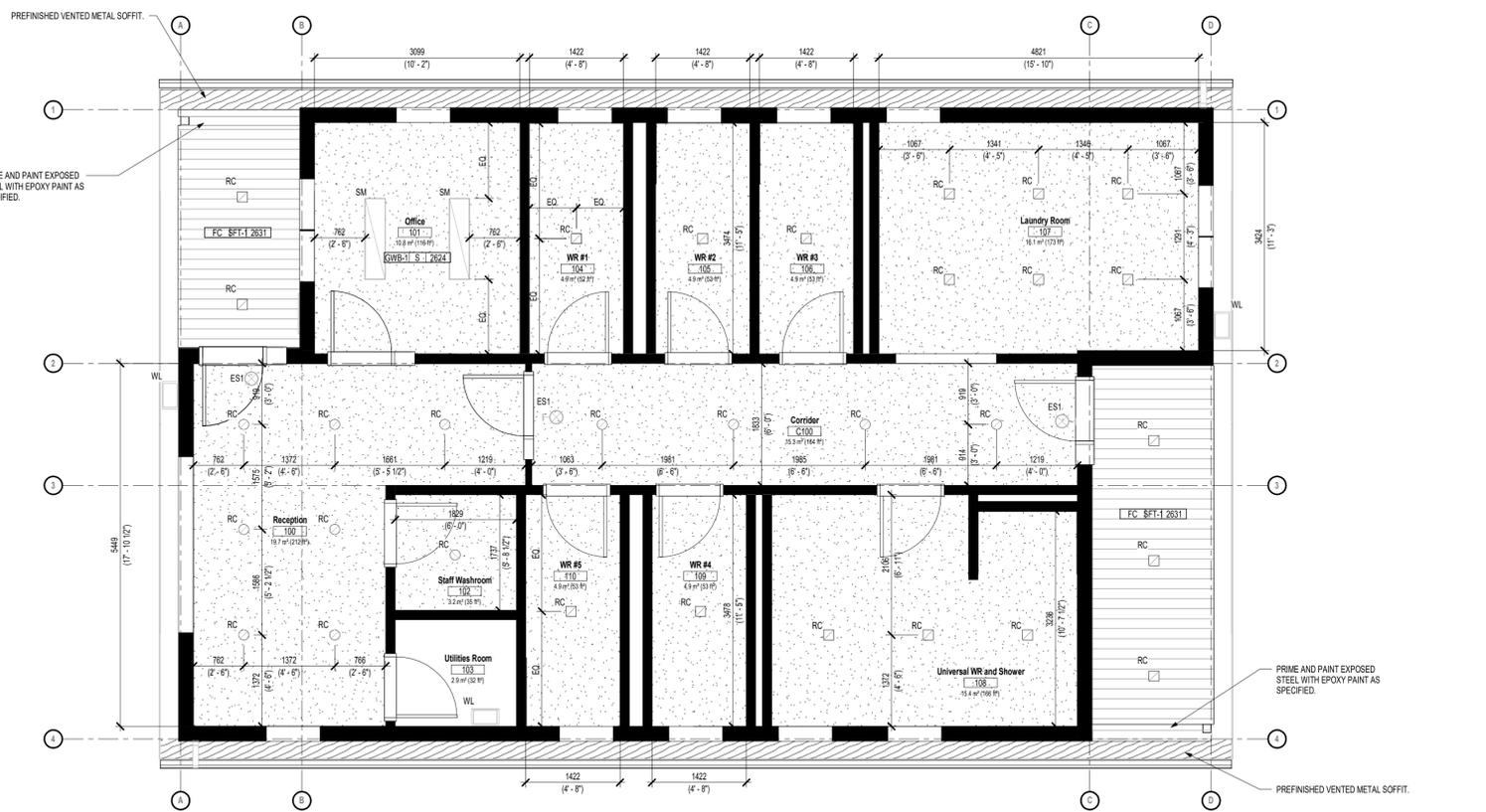
MECHANICAL FIXTURES

	ACCESS PANELS
	460 x 460 GWB CEILING ACCESS PANEL
	610 x 610 GWB CEILING ACCESS PANEL
	ROOF FIXTURES
	VENT STACK (REFER TO MECHANICAL) - PROVIDE EPDM MEMBRANE FLASHING AT BASE OF PIPE. ENSURE WATER TIGHT CONNECTION.

ROOF NOTES:
 1. REFER TO MECHANICAL FOR WASHROOM VENTILATION, PROVIDE PREFINISHED METAL FLASHING AS REQUIRED.
 2. REFER TO MECHANICAL FOR VENT STACKS. ENSURE STACKS EXTEND A MINIMUM OF 305mm (1'-0") AND ARE SEALED TO BE WATERTIGHT.



1 Roof Plan
 1:50



2 LEVEL 1 - RCP
 1:50

1	February 20, 2026	Issued for Tender and Permit	G
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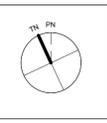


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ROOF PLAN AND RCP

Scale	As indicated
Drawn By	HS
Reviewed By	DD/PG
Revision No.	1
Plot Date	2026-02-20



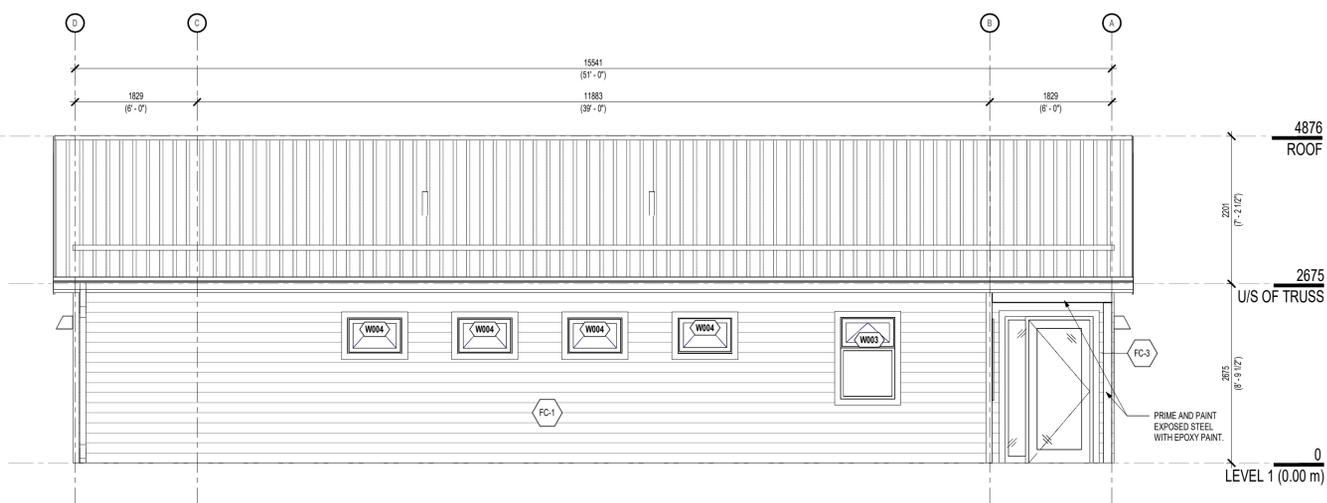
Drawing No. **A 3.01**

EXTERIOR MATERIAL LEGEND:

- FC-1 FIBER CEMENT BOARD - HORIZONTAL PROFILE (COLOUR 1)
- FC-2 FIBER CEMENT BOARD - VERTICAL PROFILE (COLOUR 1)
- FC-3 FIBER CEMENT BOARD - HORIZONTAL PROFILE (COLOUR 2)

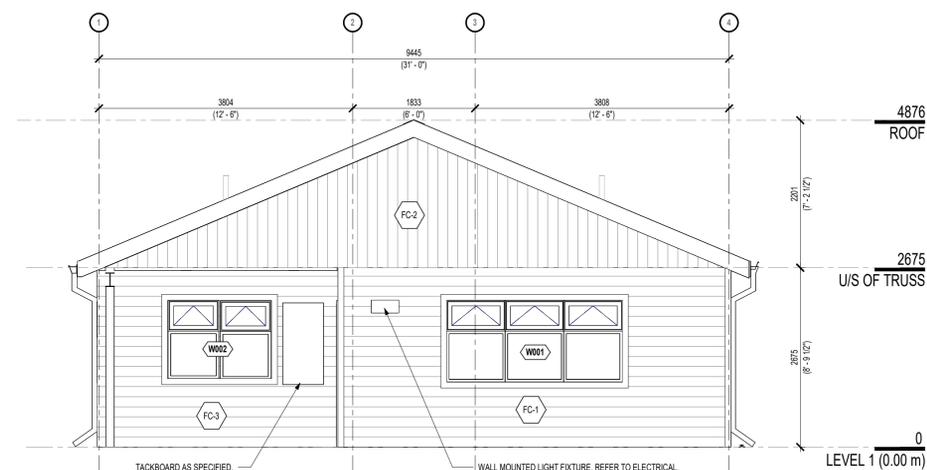
EXTERIOR ELEVATION NOTES:

1. AT ALL CORNERS (INTERIOR AND EXTERIOR), CONTRACTOR IS TO PROVIDE 3.5" (89mm) TRIM LOCATED ADJACENT TO FIBER CEMENT BOARD IS TO BE FIBER CEMENT BOARD TRIM. TRIM ADJACENT TO WOOD SIDING IS TO BE PREFINISHED WOOD TRIM.
2. AT ALL WINDOWS AND DOORS, CONTRACTOR IS TO PROVIDE 3.5" (89mm) TRIM AROUND ENTIRE OPENING. TRIM LOCATED ADJACENT TO FIBER CEMENT BOARD IS TO BE FIBER CEMENT BOARD TRIM. TRIM ADJACENT TO WOOD SIDING IS TO BE PREFINISHED WOOD TRIM.



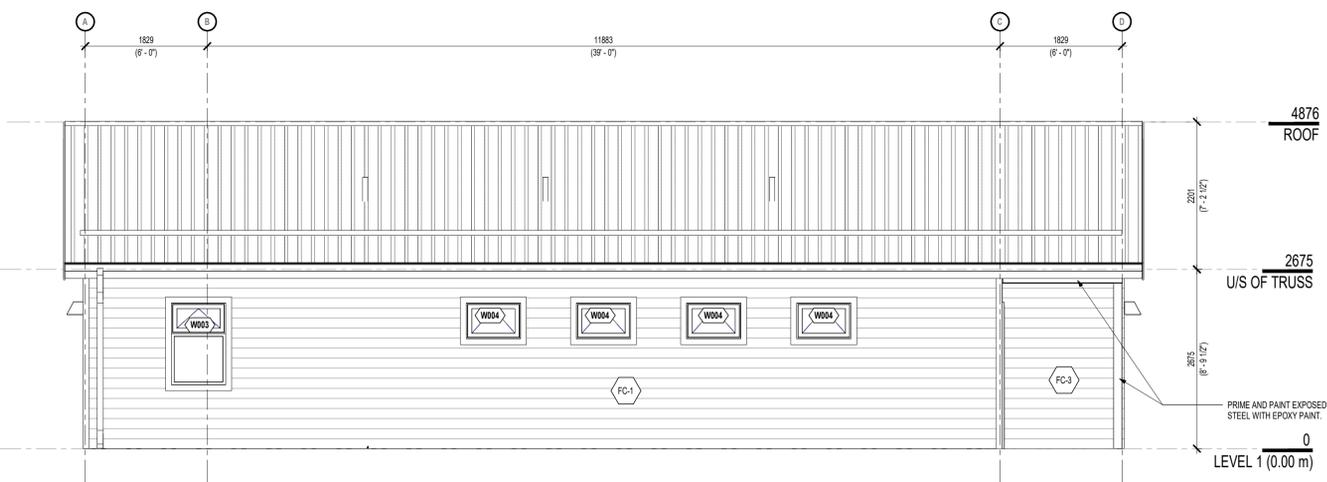
1 North Elevation

1:50



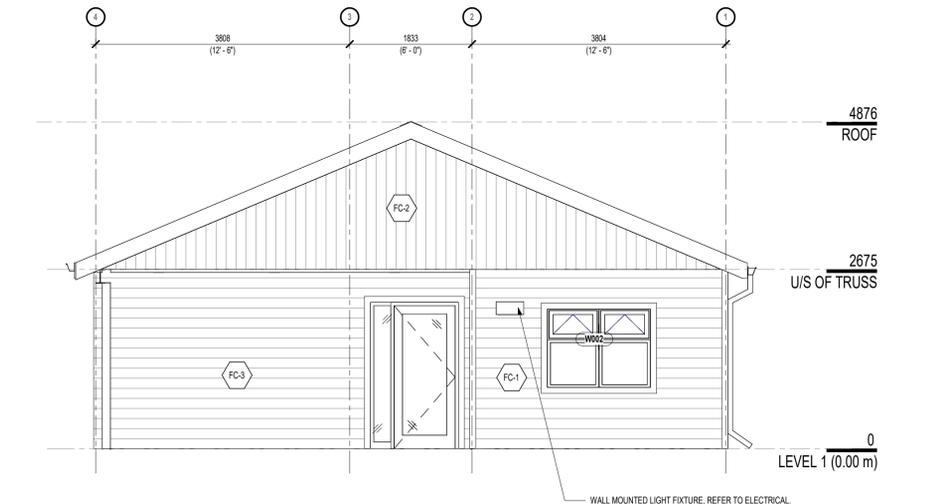
2 West Elevation

1:50



3 South Elevation

1:50



4 East Elevation

1:50

1	February 20, 2026	Issued for Tender and Permit	G
#	Date	Revision	By



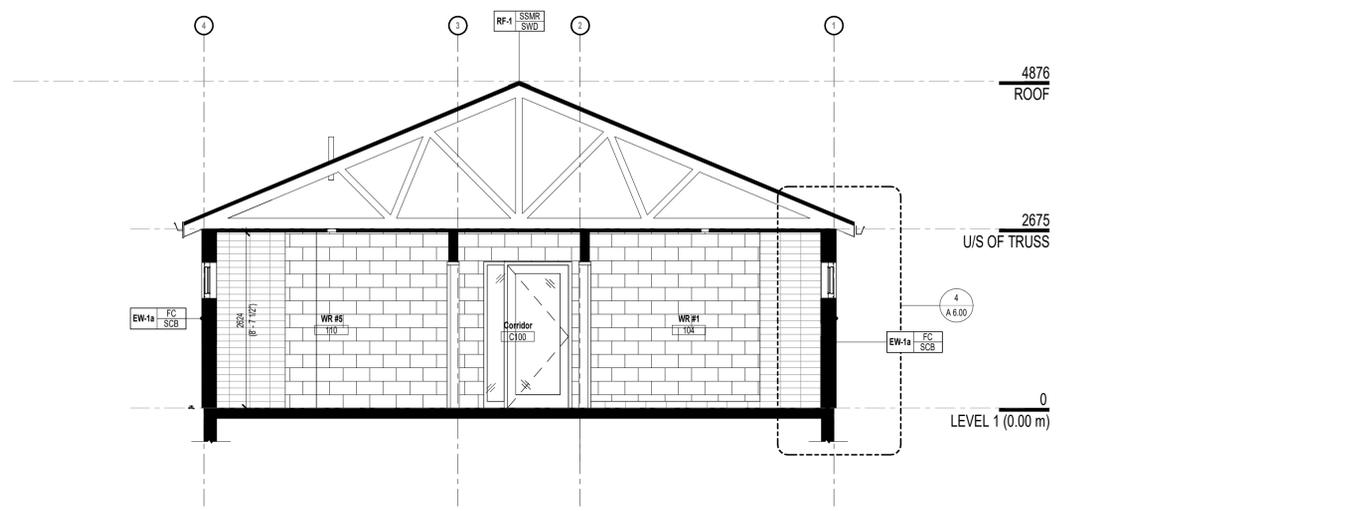
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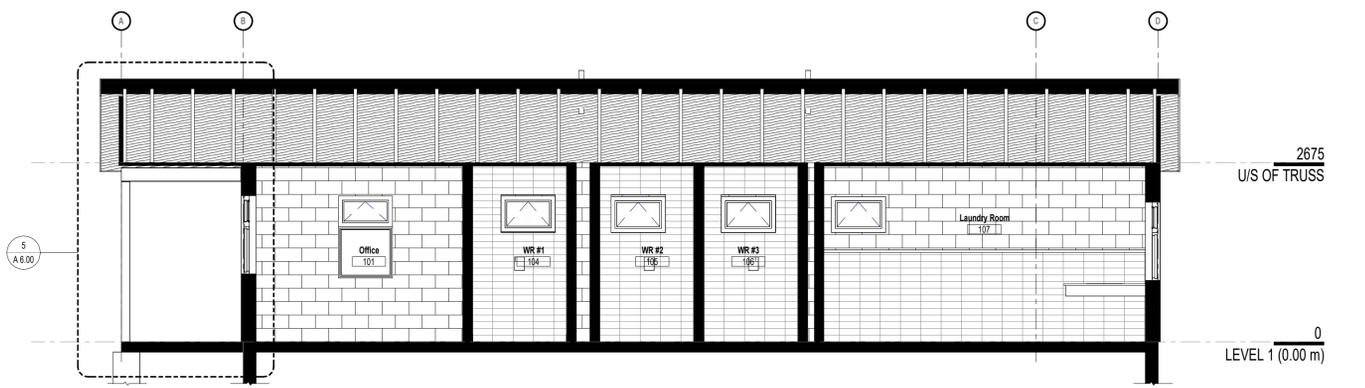
BUILDING ELEVATIONS

Scale: As indicated
 Drawn By: HS
 Reviewed By: DD/PG
 Revision No.: 1
 Plot Date: 2026-02-20

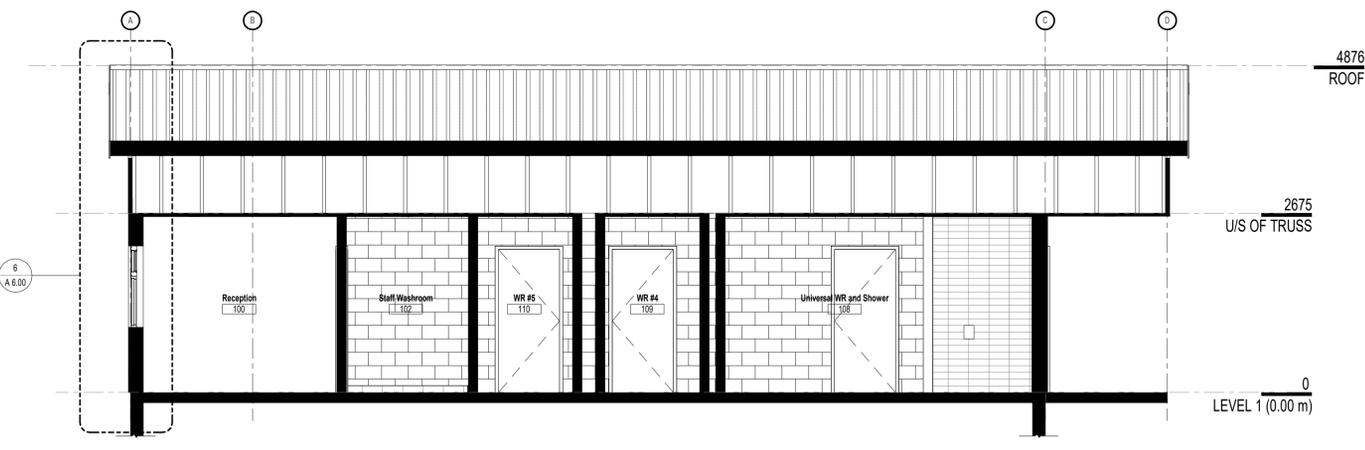
Drawing No. **A 5.00**



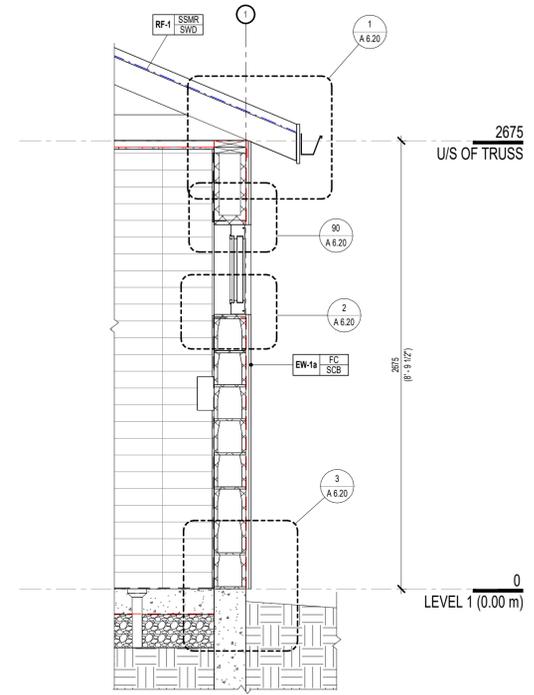
1 E/W BUILDING SECTION
1:50



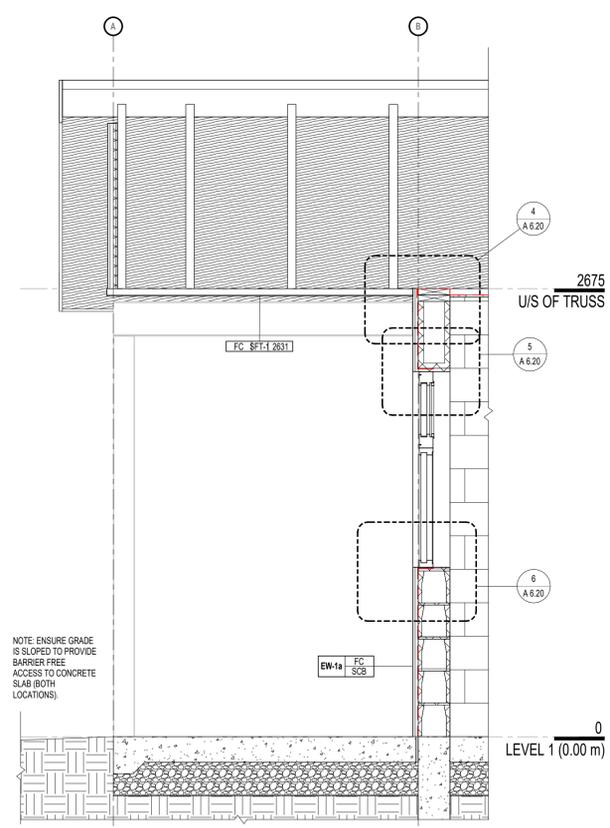
2 N/S BUILDING SECTION
1:50



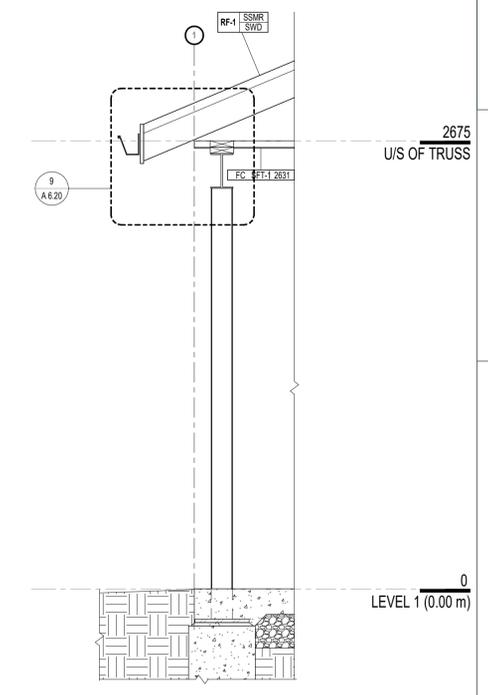
3 N/S BUILDING SECTION
1:50



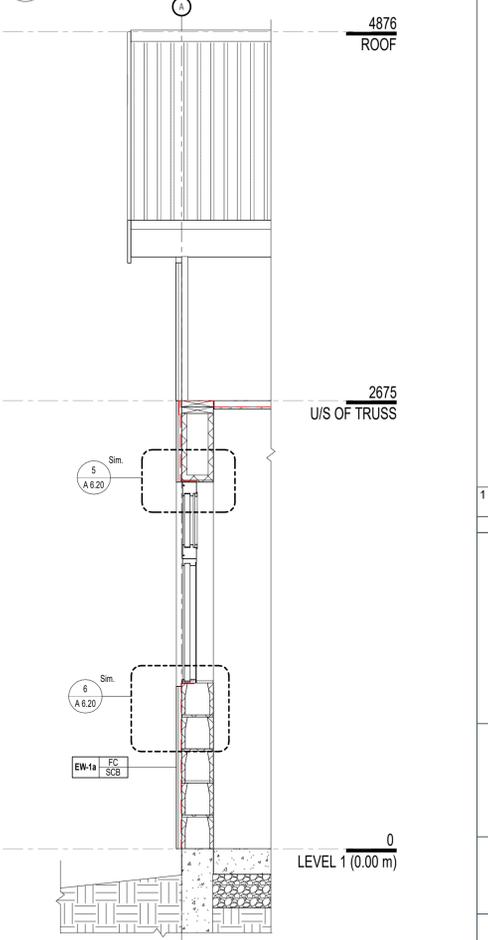
4 E/W WALL SECTION
1:20



5 N/S WALL SECTION
1:20



7 E/W WALL SECTION
1:20



6 N/S WALL SECTION
1:20

1	February 20, 2026	Issued for Tender and Permit	G
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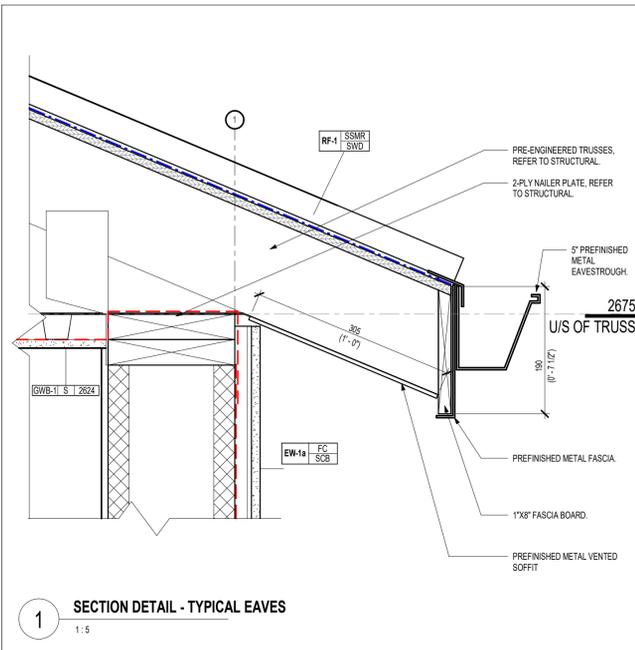
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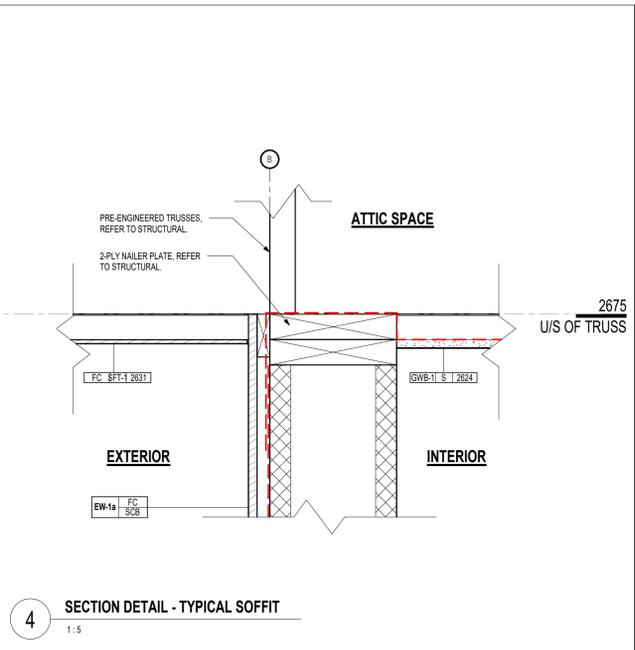
BUILDING & WALL SECTIONS

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 Reviewed By: DD/PG
 Revision No.: 1
 Plot Date: 2026-02-20

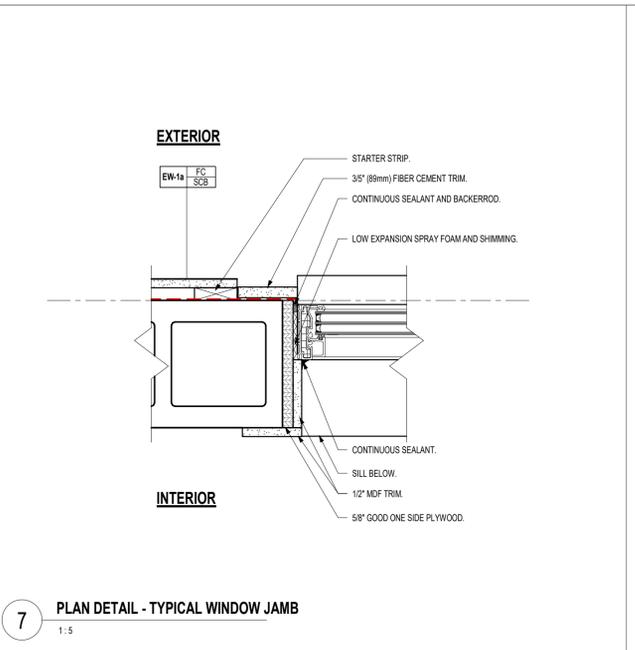
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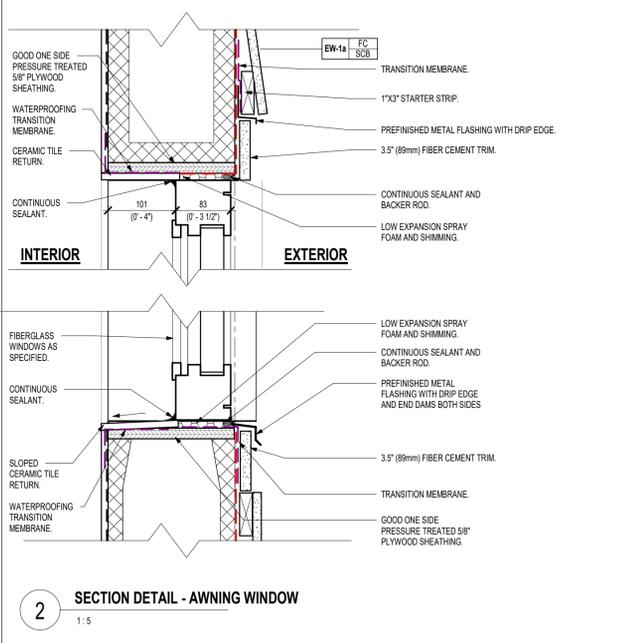
1 SECTION DETAIL - TYPICAL EAVES
1:5



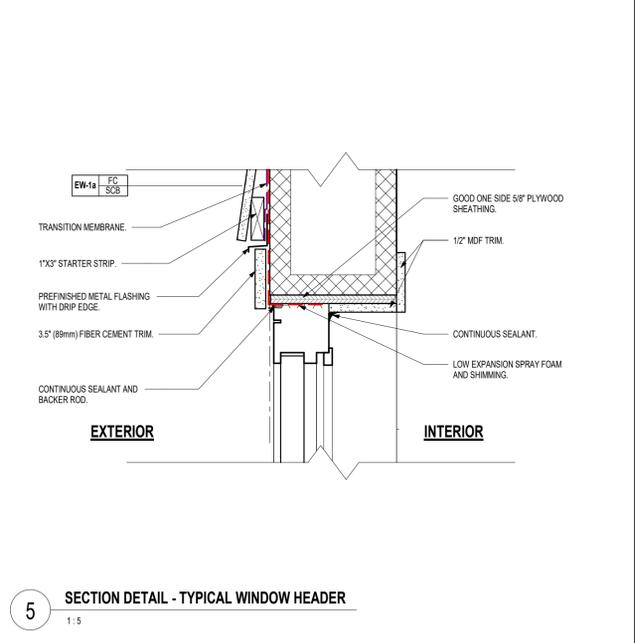
4 SECTION DETAIL - TYPICAL SOFFIT
1:5



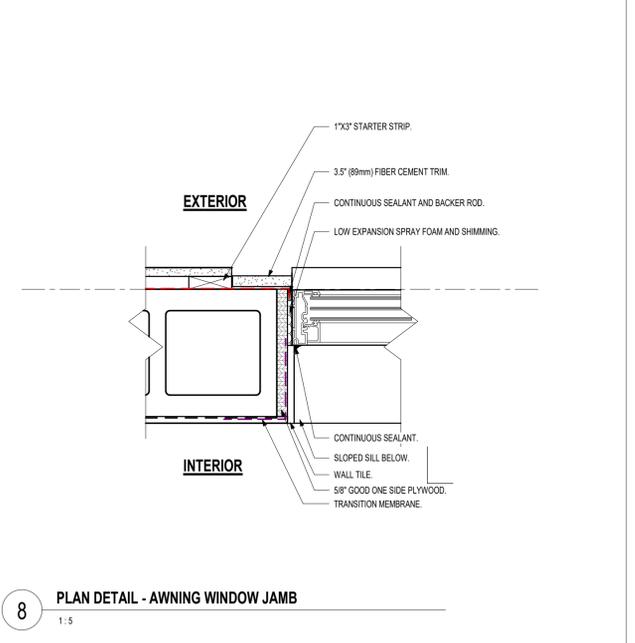
7 PLAN DETAIL - TYPICAL WINDOW JAMB
1:5



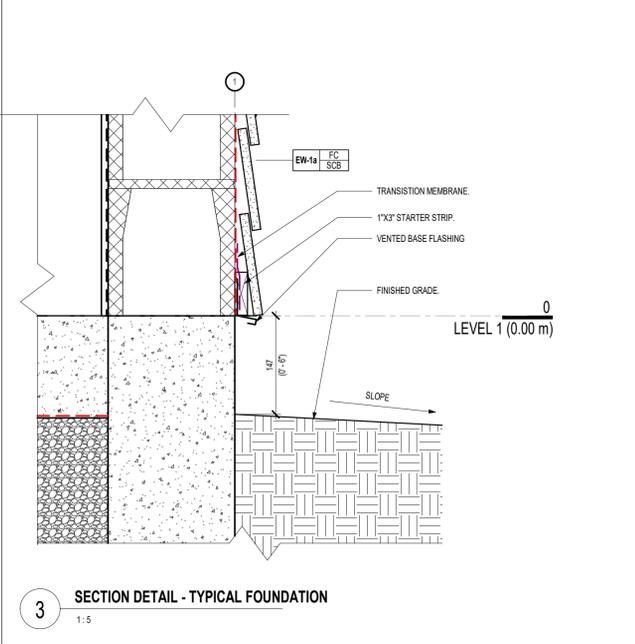
2 SECTION DETAIL - AWNING WINDOW
1:5



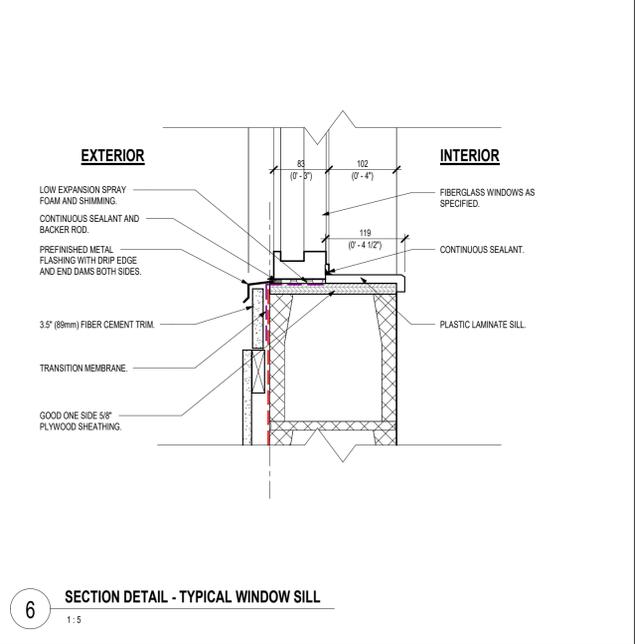
5 SECTION DETAIL - TYPICAL WINDOW HEADER
1:5



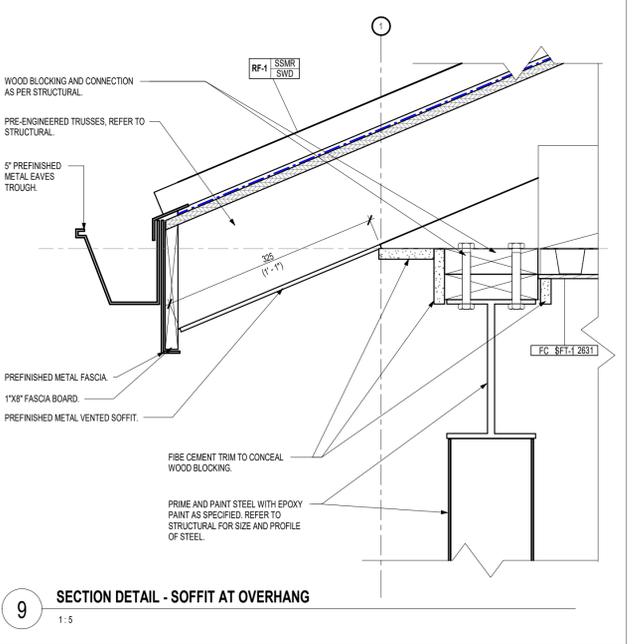
8 PLAN DETAIL - AWNING WINDOW JAMB
1:5



3 SECTION DETAIL - TYPICAL FOUNDATION
1:5



6 SECTION DETAIL - TYPICAL WINDOW SILL
1:5



9 SECTION DETAIL - SOFFIT AT OVERHANG
1:5

1	February 20, 2026	Issued for Tender and Permit	G
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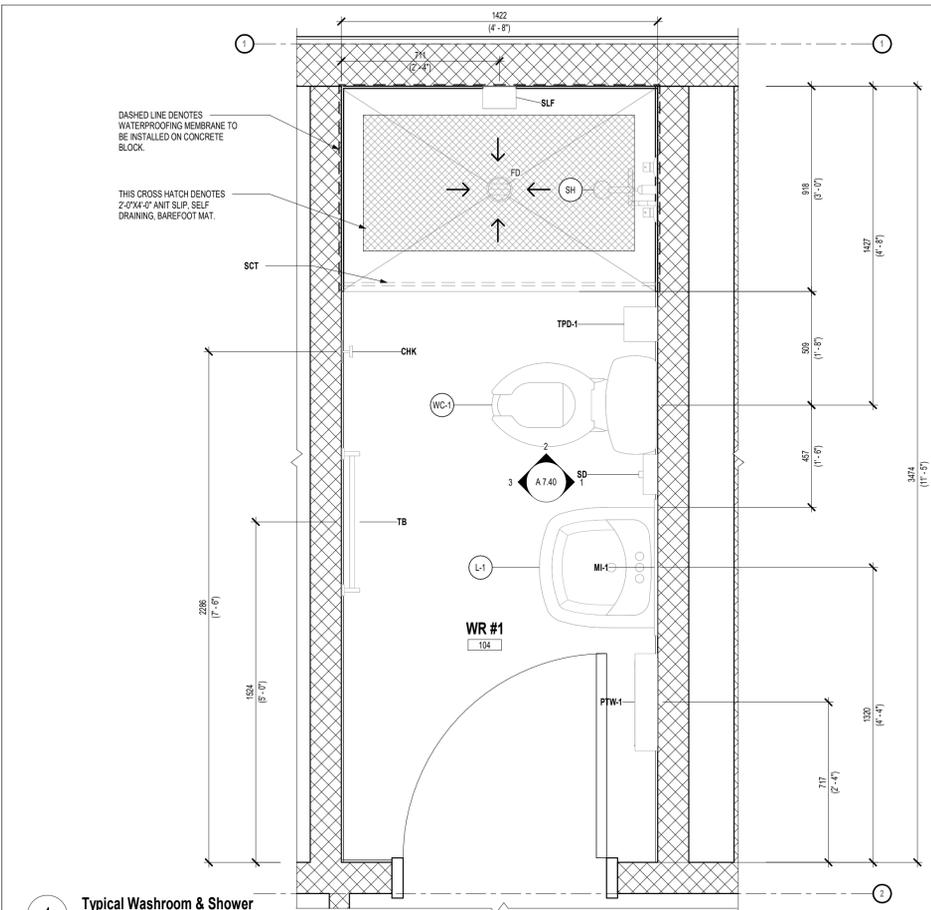
EXTERIOR DETAILS

Scale: 1:5
 Drawn By: HS
 Reviewed By: DD/PG
 Plot No.: 1
 Plot Date: 2026-02-20

Drawing No. **A 6.20**

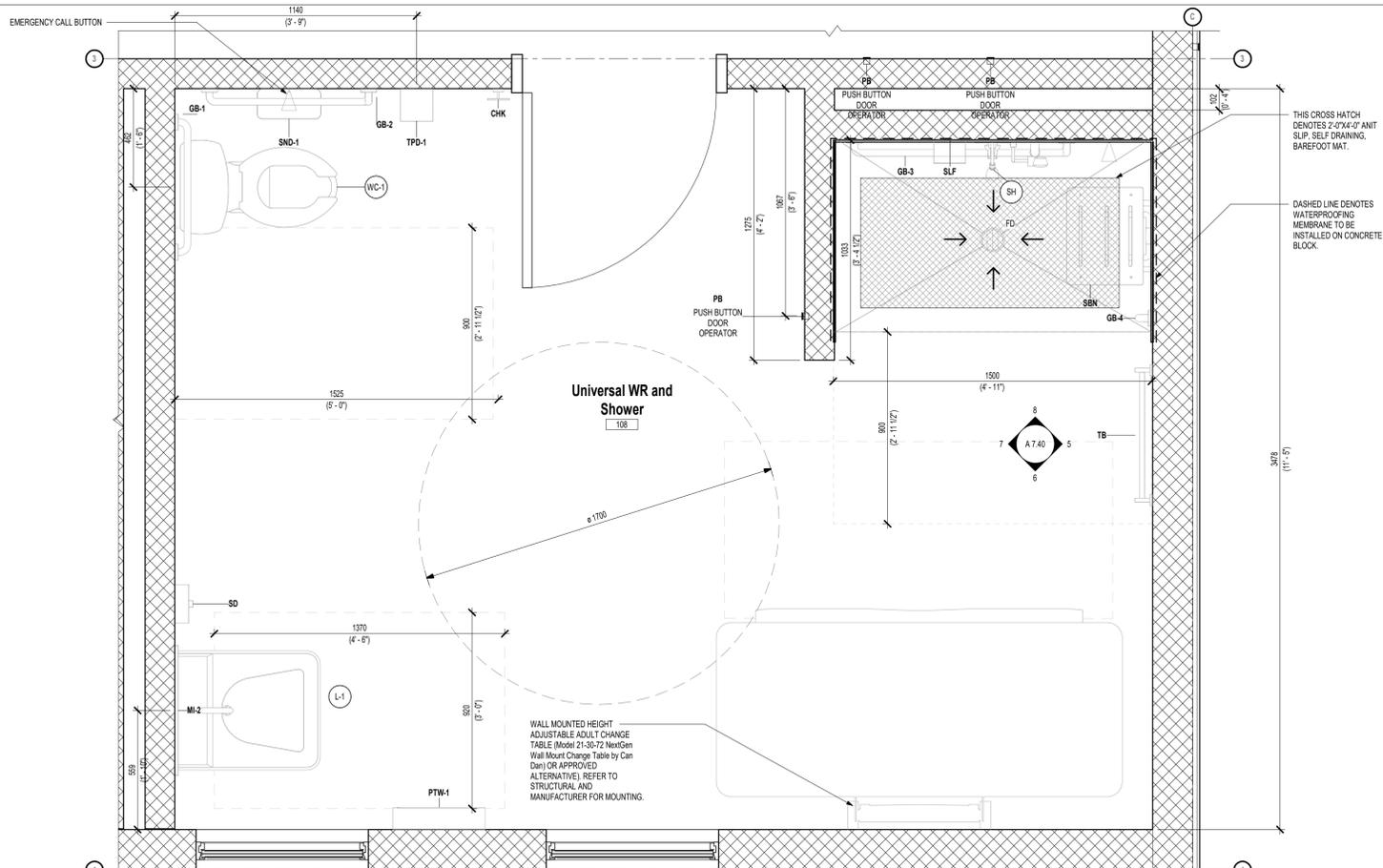
FURNISHING, FIXTURE & EQUIPMENT LEGEND:

- CHK - CLOTHES HOOK / COAT HOOK
- FD - FLOOR DRAIN
- GB - GRAB BAR (REFER TO SPECIFICATIONS FOR TYPE)
- HB - HOSE BIB - REFER TO MECHANICAL FOR TYPES
- L1 - WALL MOUNTED LAVATORY - REFER TO MECHANICAL FOR TYPES
- L2 - WALL MOUNTED LAVATORY - REFER TO MECHANICAL FOR TYPES
- M1 - MIRROR
- M2 - MIRROR (TILT)
- PTD - PAPER TOWEL DISPENSER
- PTWR - PAPER TOWEL WASTE RECEPTACLE
- S1 - COUNTER SINK
- SBN - SHOWER SEAT
- SCT - SHOWER CURTAIN
- SD - SOAP DISPENSER
- SH - SHOWER HEAD - REFER TO MECHANICAL FOR TYPES
- SLF - SHELF
- SND - SANITARY NAPKIN DISPOSAL
- TB - TOWEL BAR
- TPD - TOILET PAPER DISPENSER
- WC1 - FLOOR MOUNTED WATER CLOSET

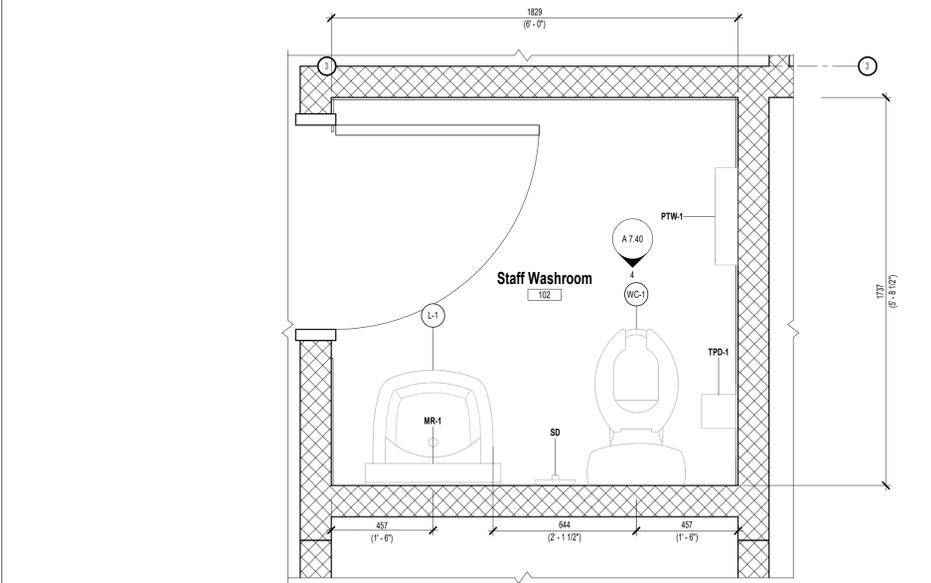


1 Typical Washroom & Shower
1:15

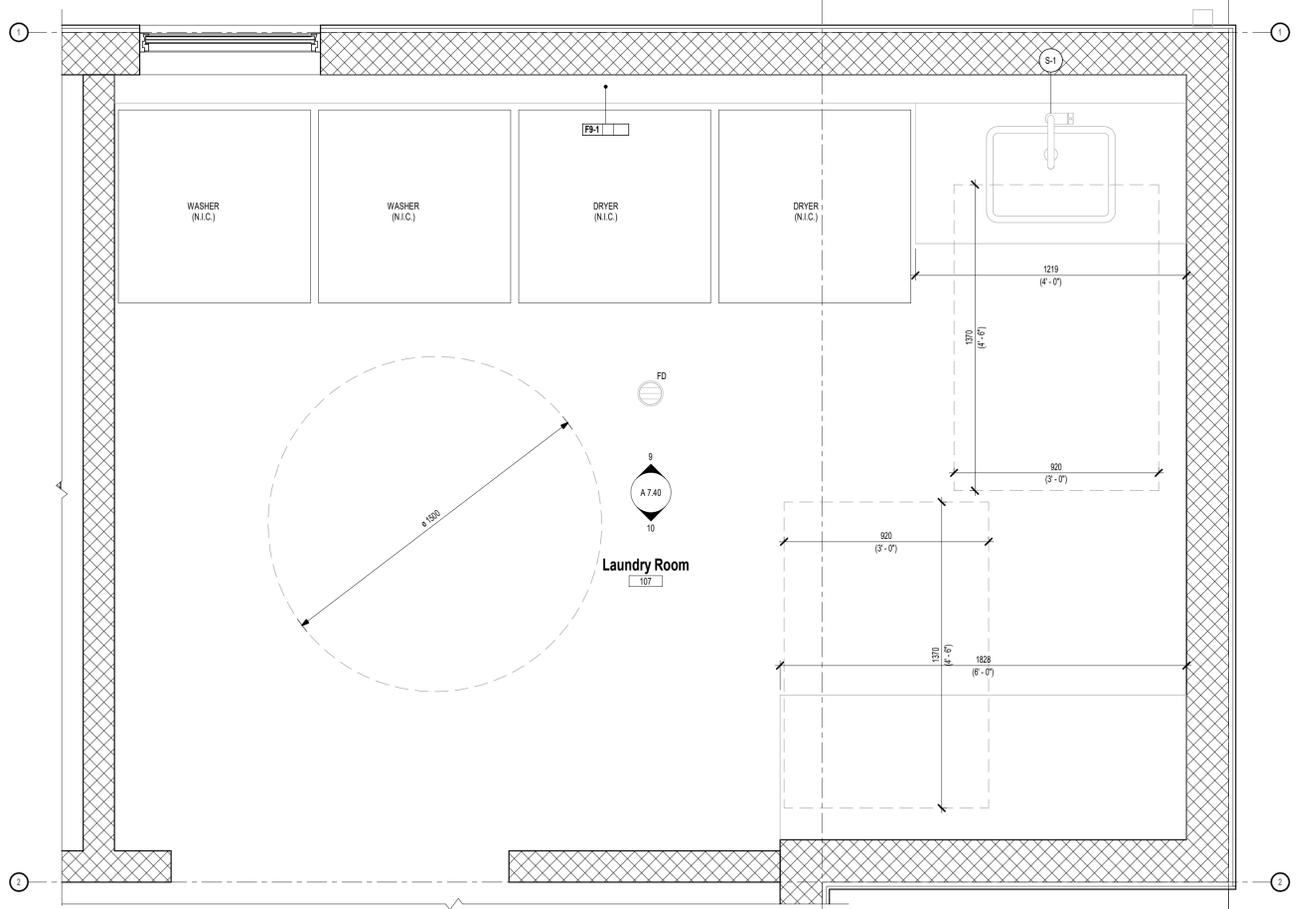
NOTE: ALL FIXTURES, EQUIPMENT, AND ACCESSORIES SHOWN IN THIS PLAN ARE TO BE INCLUDED IN ALL WASHROOM & SHOWER ROOMS (TOTAL OF 6 LOCATIONS).



3 Universal Washroom and Shower
1:15



2 Staff Washroom
1:15



4 Laundry Room
1:15

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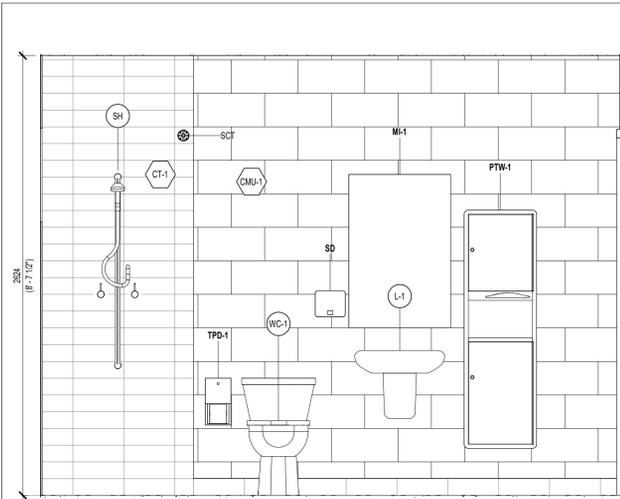
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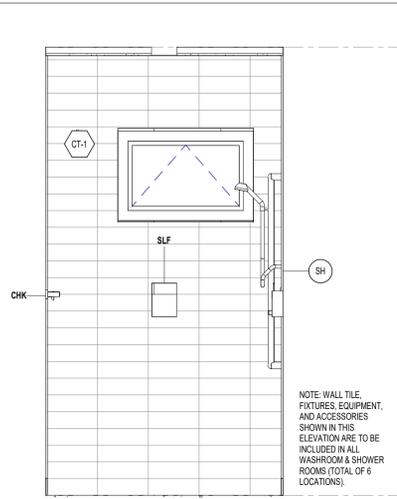
ENLARGED FLOOR PLANS

Scale	As indicated	
Drawn By	HS	
Reviewed By	DD/PG	
Revision No.	1	
Plot Date	2026-02-20	

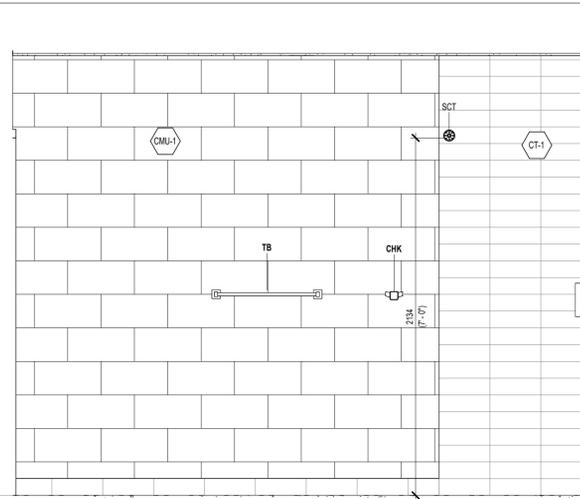
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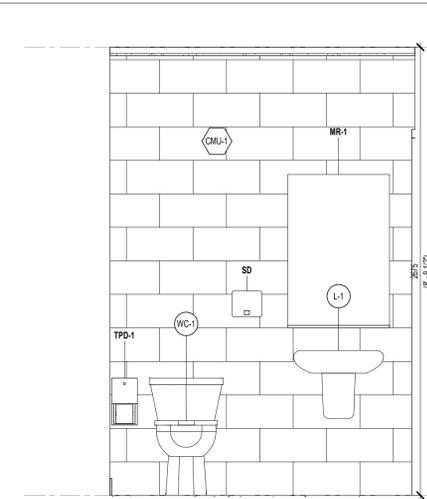
NOTE: WALL TILE, FIXTURES, EQUIPMENT, AND ACCESSORIES SHOWN IN THIS ELEVATION ARE TO BE INCLUDED IN ALL WASHROOM & SHOWER ROOMS (TOTAL OF 6 LOCATIONS).



NOTE: WALL TILE, FIXTURES, EQUIPMENT, AND ACCESSORIES SHOWN IN THIS ELEVATION ARE TO BE INCLUDED IN ALL WASHROOM & SHOWER ROOMS (TOTAL OF 6 LOCATIONS).



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NOTE: WALL TILE, FIXTURES, EQUIPMENT, AND ACCESSORIES SHOWN IN THIS ELEVATION ARE TO BE INCLUDED IN ALL WASHROOM & SHOWER ROOMS (TOTAL OF 6 LOCATIONS).

2675
U/S OF TRUSS

0
LEVEL 1 (0.00 m)

FURNISHING, FIXTURE & EQUIPMENT LEGEND:

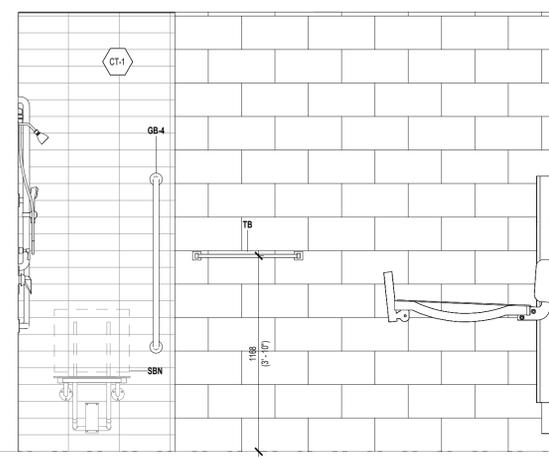
- CHK - CLOTHES HOOK / COAT HOOK
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- SND - SANITARY NAPKIN DISPOSAL
- TB - TOWEL BAR
- TPD - TOILET PAPER DISPENSER
- WC-1 - FLOOR MOUNTED WATER CLOSET

1 Interior Elevation - Typical Washroom and Shower
1:20

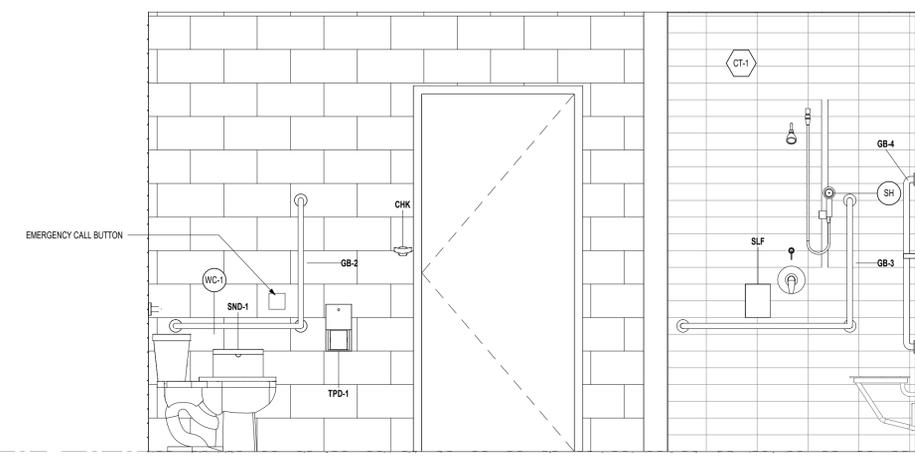
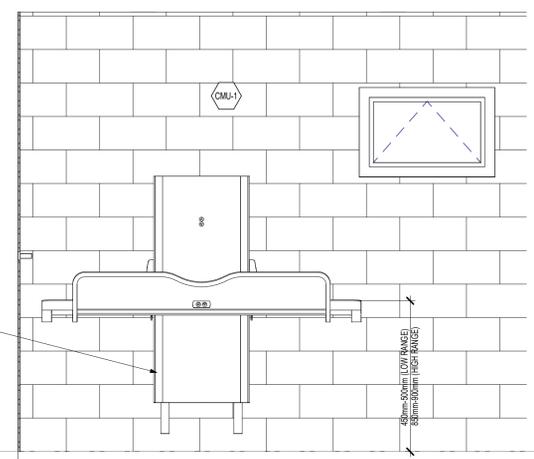
2 Interior Elevation - Typical Washroom and Shower
1:20

3 Interior Elevation - Typical Washroom and Shower
1:20

4 Interior Elevation - Staff Washroom
1:20



WALL MOUNTED HEIGHT ADJUSTABLE ADULT CHANGE TABLE (Model 21-35-72 NewGen Wall Mount Change Table by Gen-Ebn) (OR APPROVED ALTERNATIVE). REFER TO STRUCTURAL AND MANUFACTURER FOR MOUNTING.

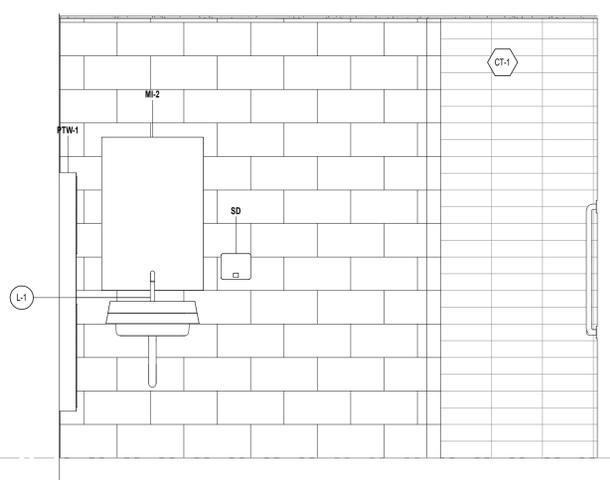


0
LEVEL 1 (0.00 m)

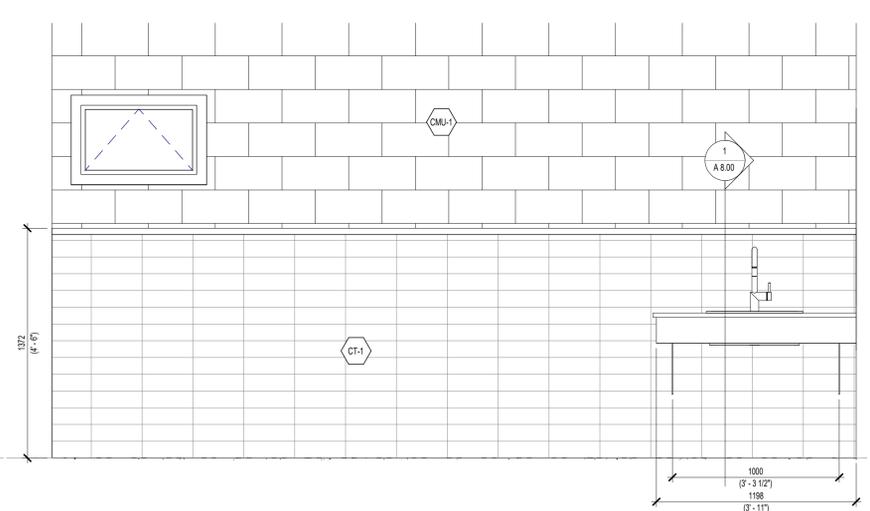
5 Interior Elevation - Universal Washroom and Shower
1:20

6 Interior Elevation - Universal Washroom and Shower
1:20

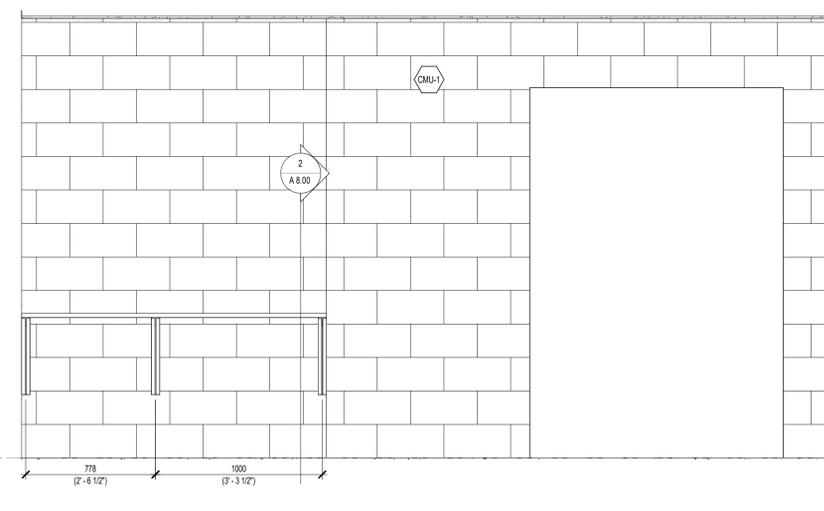
8 Interior Elevation - Universal Washroom and Shower
1:20



7 Interior Elevation - Universal Washroom and Shower
1:20



9 Interior Elevation - Laundry Room
1:20



10 Interior Elevation - Laundry Room
1:20

0
LEVEL 1 (0.00 m)

1	February 20, 2026	Issued for Tender and Permit	G
#	Date	Revision	By



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Port Glasgow Trailer Park Seasonal Office and Shower Facility
8650 Furnival Rd, Rodney, ON N0L 2C0
Client: Municipality of West Elgin
Project No.: 25043

INTERIOR ELEVATIONS

Scale: As indicated
Drawn By: HS
Reviewed By: DD/PG
Revision No.: 1
Plot Date: 2026-02-20

Drawing No. **A 7.40**

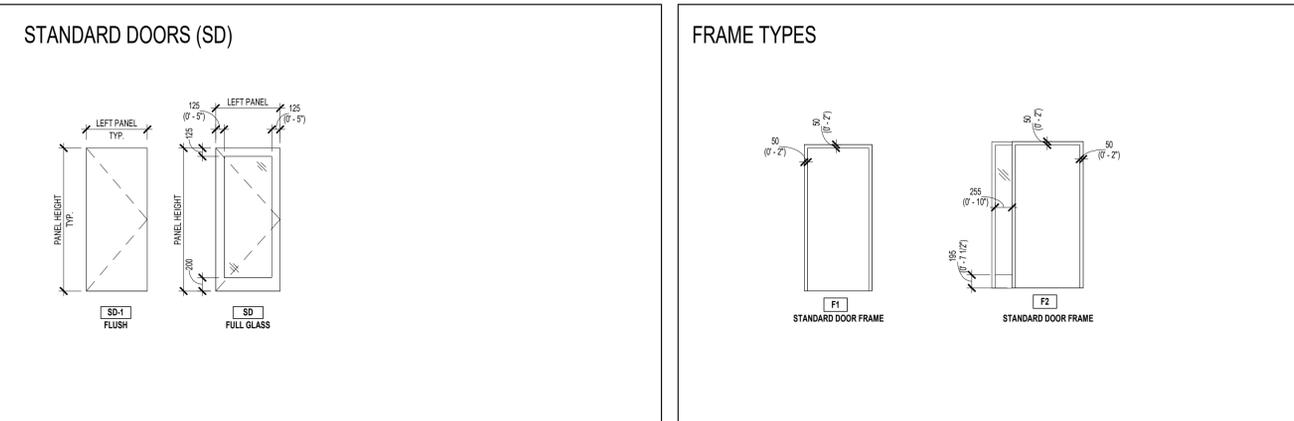
DOOR ABBREVIATION LEGENDS

DOOR/SCREEN SCHEDULE LEGEND		DOOR/SCREEN PANEL & FRAME MATERIAL LEGEND	
ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
SECURITY		PANEL & FRAME MATERIAL	
ES	ELECTRIC STRIKE	FGL	FIBRE GLASS
ML	MAGNETIC LOCK DEVICE	PST	PRESSED STEEL
KP	KEY PAD	OPN	OPENING IN PARTITION/ WALL
CR	CARD READER		
CLOSURE		GLAZING TYPE LEGEND	
AO	ELECTRIC AUTO OPERATOR DEVICE	ABBR...	DESCRIPTION
CL	CLOSER DEVICE		SINGLE PANE GLASS
HO	MAGNETIC HOLD OPEN DEVICE + CLOSER	GL-1	TEMPERED GLASS
SC	SENTRONIC CLOSER		SEALED INSULATED GLAZING UNIT
		IGU-1	DOUBLE GLAZED

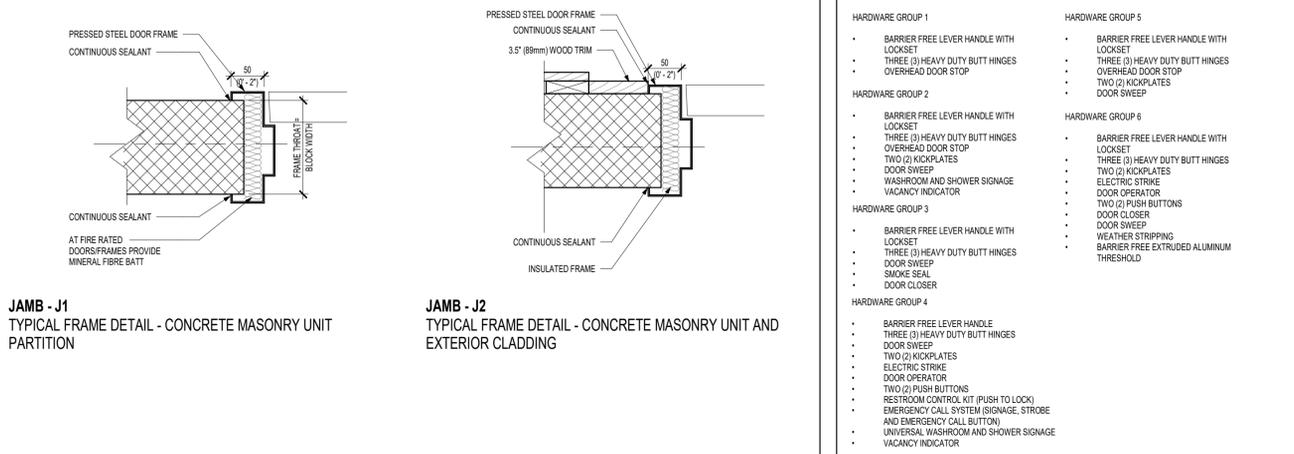
NOTES:
 (1) CLOSERS ON RATED DOORS ONLY. REFER TO DOOR HARDWARE SCHEDULE FOR ALL DOORS TO RECEIVE CLOSERS
 (2) ALL DOOR AND FRAME ASSEMBLIES WITH FIRE PROTECTION RATING SHALL CONFORM TO O.B.C. 3.1.8.4 (4)
 (3) DOOR HARDWARE LISTED PROVIDES GENERAL REQUIREMENTS FOR PROJECT AND DOES NOT INCLUDE SPECIFIC MANUFACTURERS OR MODELS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON DOOR HARDWARE
 (4) CONTRACTOR IS TO RETAIN A HARDWARE CONSULTANT TO PROVIDE A FULL HARDWARE SCHEDULE SCHEDULE IS TO BE SUBMIT AS A SHOP DRAWING TO CONSULTANT
 (5) DOOR FUNCTIONS ARE TO BE CONFIRMED BY OWNER AND CONSULTANT DURING SHOP DRAWING REVIEW
 (6) LOCKSETS ARE TO BE KEYPED BY CONTRACTOR, COORDINATE KEYING WITH OWNER

DOOR SCHEDULE																	
DOOR NUMBER	ROOM NUMBER	ROOM NAME	FIRE RESISTANCE RATING	HARDWARE GROUP	SECURITY	CLOSURE	DOOR PANEL					DOOR FRAME				JAMB	COMMENTS
							TYPE	MATERIAL	FINISH	WIDTH	HEIGHT	GLAZ. TYPE	TYPE	MATERIAL	FINISH		
Interior																	
D101	101	Office					SD	PST	PT	915	2134	GL-1	F2	PST	PT	GL-1	J1
D102	102	Staff Washroom					SD-1	PST	PT	915	2134		F1	PST	PT		J1
D103	103	Utilities Room	45	3		CL	SD-1	PST	PT	915	2134		F1	PST	PT		J1
D104	104	WR #1					SD-1	PST	PT	915	2134		F1	PST	PT		J1
D105	105	WR #2					SD-1	PST	PT	915	2134		F1	PST	PT		J1
D106	106	WR #3					SD-1	PST	PT	915	2134		F1	PST	PT		J1
D108	108	Universal WR and Shower		4	ES	AO	SD-1	PST	PT	915	2134		F1	PST	PT		J1
D109	109	WR #4					SD-1	PST	PT	915	2134		F1	PST	PT		J1
D110	110	WR #5					SD-1	PST	PT	915	2134		F1	PST	PT		J1
DC100	C100	Corridor					SD	PST	PT	915	2134	GL-1	F2	PST	PT	GL-1	J1
Exterior																	
DE-100	100	Reception		6	ES	AO	SD	FGL	MNF	915	2134	IGU-1	F2	FGL	MNF	IGU-1	J2
DE-C100	C100	Corridor		6	ES	AO	SD	FGL	MNF	915	2134	IGU-1	F2	FGL	MNF	IGU-1	J2

DOOR ELEVATIONS



FRAME DETAILS

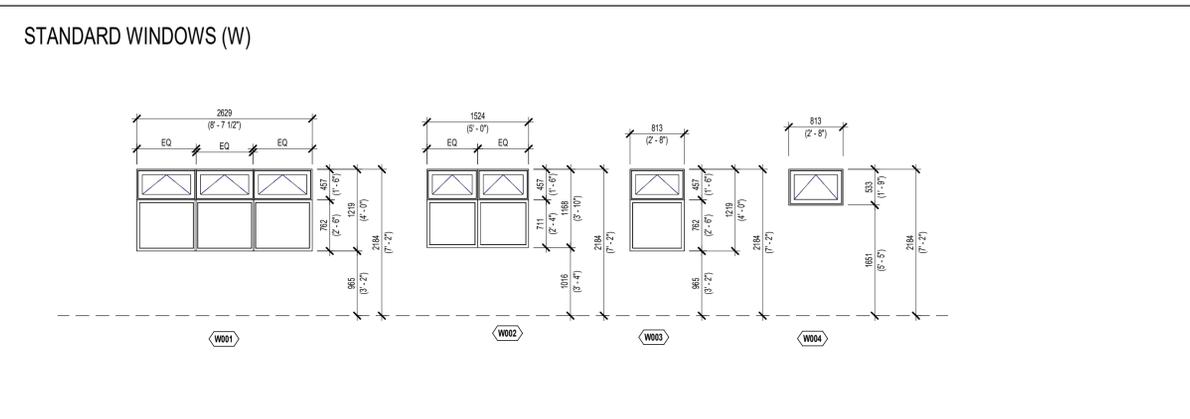


WINDOW/CURTAIN WALL/SCREEN SCHEDULE ABBREVIATION LEGEND

WINDOW SCHEDULE LEGEND		GLAZING TYPE LEGEND	
ABBREV	DESCRIPTION	ABBR...	DESCRIPTION
FRAME MATERIAL		SINGLE PANE GLASS	
AL	ALUMINUM	GL-1	TEMPERED GLASS
FGL	FIBREGLASS		SEALED INSULATED GLAZING UNIT
FRAME FINISH		IGU-1	DOUBLE GLAZED
ANOB	BLACK ANODIZED ALUMINUM		
MNF	MANUFACTURER'S FACTORY FINISH		GLAZING FILM TYPES
OPERATION		FLM-1	PRIVACY FILM - OPAQUE
AW	AWNING		
CS	CASEMENT		
FX	FIXED		
SL	SLIDING		

WINDOW SCHEDULE								
TYPE	COUNT	OPERATION	FRAME MATERIALS	FRAME FINISH	GLAZING	SCREEN	FILM	COMMENTS
LEVEL 1								
W001	1	FX/AW	FGL	MNF	IGU-1	YES		
W002	2	FX/AW	FGL	MNF	IGU-1	YES		
W003	2	FX/AW	FGL	MNF	IGU-1	YES		
W004	8	AW	FGL	MNF	IGU-1	YES	FLM-1	

WINDOW ELEVATIONS



1	February 20, 2026	Issued for Tender and Permit	G
#	Date	Revision	By



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Port Glasgow Trailer Park Seasonal Office and Shower Facility
 8650 Furnival Rd, Rodney, ON N0L 2C0
 Client: Municipality of West Elgin
 Project No.: 25043

DOOR AND WINDOW SCHEDULE

Scale: As indicated
 Drawn By: HS
 Reviewed By: DD/PG
 Revision No.: 1
 Plot Date: 2026-02-20

Drawing No. **A 9.00**

- DIVISION 02 - EXISTING CONDITION**
- STRUCTURE DEMOLITION**
 - SITE CONDITIONS
 - FIRES AND BURNING OF WASTE OR MATERIALS IS NOT PERMITTED ON SITE.
 - DO NOT BURY RUBBISH WASTE MATERIALS.
 - DO NOT DISPOSE OF WASTE OR VOLATILE MATERIALS INCLUDING BUT NOT LIMITED TO: MINERAL SPIRITS, OIL, PETROLEUM BASED LUBRICANTS, OR TOXIC CLEANING SOLUTIONS INTO WATERCOURSES, STORM OR SANITARY SEWERS.
 - ENSURE PROPER DISPOSAL PROCEDURES ARE MAINTAINED THROUGHOUT PROJECT.
 - DO NOT PUMP WATER CONTAINING SUSPENDED MATERIALS INTO WATERCOURSES, STORM OR SANITARY SEWERS, OR ONTO ADJACENT PROPERTIES.
 - EXISTING CONDITIONS
 - IF MATERIAL RESEMBLING SPRAY OR TROWEL APPLIED ASBESTOS OR OTHER DESIGNATED SUBSTANCE LISTED AS HAZARDOUS BE ENCOUNTERED IN COURSE OF DEMOLITION, STOP WORK, TAKE PREVENTATIVE MEASURES, AND NOTIFY CONSULTANT IMMEDIATELY. PROCEED ONLY AFTER RECEIPTS OF WRITTEN INSTRUCTIONS HAVE BEEN RECEIVED FROM CONSULTANT.
 - PREPARATION
 - PROTECTION OF IN-PLACE CONDITIONS:
 - PREVENT MOVEMENT, SETTLEMENT OR DAMAGE OF ADJACENT STRUCTURES, SERVICES, WALKS, PAVING, TREES, LANDSCAPING, AND ADJACENT GRADES.
 - PROVIDE BRACING, SHORING AND UNDERPINNING AS REQUIRED.
 - REPAIR DAMAGE CAUSED BY DEMOLITION AS DIRECTED BY CONSULTANT.
 - DEMOLITION
 - REMOVE CONTAMINATED OR DANGEROUS MATERIALS AS DEFINED BY AUTHORITIES HAVING JURISDICTION, RELATING TO ENVIRONMENTAL PROTECTION, FROM SITE AND DISPOSE OF IN SAFE MANNER TO MINIMIZE DANGER AT SITE OR DURING DISPOSAL.
 - DEMOLISH STRUCTURE TO PERMIT CONSTRUCTION AS INDICATED.
 - CRUSH CONCRETE GENERATED DUE TO DEMOLITION OF FOUNDATIONS TO SIZE SUITABLE FOR RECYCLING.
 - FOR FURTHER INFORMATION REGARDING ACCEPTABLE USES CONTACT PROVINCIAL / TERRITORIAL AGGREGATE PRODUCERS ASSOCIATIONS OR MINISTRIES OF TRANSPORTATION.
 - REMOVE EXISTING EQUIPMENT, SERVICES, AND OBSTACLES WHERE REQUIRED FOR REFINISHING OR MAKING GOOD OF EXISTING SURFACES, AND REPLACE AS WORK PROGRESSES.
 - AT END OF EACH DAY'S WORK, LEAVE WORK IN SAFE AND STABLE CONDITION.

- DIVISION 03 - CONCRETE**
- CONCRETE FLOOR SEALING**
 - INFORMATION
 - REFER TO STRUCTURAL FOR CONCRETE MIX.
 - MATERIALS:
 - FOR INTERIOR OR EXTERIOR APPLICATIONS SUBJECT TO PAINT, RESILIENT TILE OR RESILIENT FLOORING. CURING COMPOUNDS SHALL BE A DISSIPATING, VOC-COMPLIANT, WATER-BASED, LIQUID MEMBRANE FORMING, INCLUDING A FUGITIVE DYE, CONFORMING TO CAN/CSA-A23.1 AND ASTM C309, TYPE 1-D. PRODUCTS SHALL BE SUITABLE FOR INTENDED APPLICATION.
 - ACCEPTABLE PRODUCTS:
 - '1100' BY W.R. MEADOWS.
 - 'KUREZ DR VOX' BY EUCLID CHEMICAL.
 - 'RESIN CURE WITH DYE J11WD' BY DAYTON SUPERIOR.
 - FOR INTERIOR OR EXTERIOR EXPOSED APPLICATIONS. CURING AND SEALING COMPOUNDS, SHALL BE A WATER BASED, VOC-COMPLIANT, CLEAR, GLOSSY, NON-YELLOWING ACRYLIC EMULSION, CONFORMING TO CAN/CSA-A23.1 AND ASTM C309 TYPE 1, AND ASTM C1315 TYPE 1, CLASS A.
 - ACCEPTABLE PRODUCTS:
 - 'FLORSEAL WB-25' BY SIKA CANADA.
 - 'VOCOMP 30' BY W.R. MEADOWS.
 - 'SUPER DIAMOND CLEAR VOX' BY EUCLID CHEMICAL.
 - EXECUTION
 - FINISHING
 - SLAB AND FLOOR TOLERANCE MEASUREMENTS SHALL BE MADE IN ACCORDANCE WITH THE F-NUMBER SYSTEM AS SPECIFIED IN CSA-A23.1 AS INDICATED BELOW.
 - MECHANICAL/ELECTRICAL ROOMS - FINISH CLASS A
 - AREAS WITH POLISHED CONCRETE, CARPET, AND LIGHT INDUSTRIAL TRAFFIC - FINISH CLASS B
 - AREAS WITH VCT, THIN SET FLOORING, MODERATE TO HEAVY FORKLIFT TRAFFIC - FINISH CLASS C
 - WAREHOUSE WITH AIR PALLET USE - FINISH CLASS D
 - FINISHED SURFACE TO BE FREE OF ANY TROWEL MARKS, UNIFORM IN TEXTURE AND APPEARANCE.
 - UNLESS NOTED OTHERWISE, SEAL ALL EXPOSED CONCRETE FLOOR AREAS, INTERIOR/EXTERIOR STAIRS AND LANDINGS, EXTERIOR EQUIPMENT PADS, AS WELL AS CONCRETE TOPPING WITH TWO COATS OF AN APPROVED SEALING COMPOUND.
 - PREPARATION OF SURFACES, QUANTITIES USED, AND APPLICATION PROCEDURES AND INSTALLATION PRECAUTIONS TO BE IN STRICT COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS.
 - FINISH FOR EXTERIOR SLABS, EQUIPMENT PADS, STAIRS AND LANDINGS
 - PROVIDE NON-SLIP BROOM FINISH.
 - SEAL WITH TWO COATS OF AN APPROVED SEALER.

- DIVISION 04 - MASONRY**
- MASONRY**
 - MORTAR AND MASONRY GROUT
 - GENERAL
 - SUBMITTAL FOR REVIEW
 - SUBMIT REPORTS ON MORTAR INDICATING CONFORMANCE OF COMPONENT MORTAR MATERIALS TO REQUIREMENTS OF CSA-A179-04.
 - SUBMIT REPORTS ON GROUT INDICATING CONFORMANCE OF COMPONENT GROUT MATERIALS TO REQUIREMENTS OF CSA-A179-04.
 - PRODUCTS
 - MATERIALS
 - CEMENTITIOUS MATERIAL: CSA-A179-04.
 - PORTLAND CEMENT: CSA-A3001-13, TYPE GU GRAY COLOUR.
 - MORTAR AGGREGATE: CSA-A179-04, USE AGGREGATE PASSING 1.18MM SIEVE WHERE 6MM THICK JOINTS ARE INDICATED.
 - WATER: CLEAN AND POTABLE.
 - MORTAR MIXES
 - MORTAR FOR EXTERIOR ABOVE GRADE:
 - LOADBEARING WALLS: CSA-A179-04, TYPE S USING THE PROPORTION SPECIFICATION.
 - NON-LOADBEARING WALLS: CSA-A179-04, TYPE N USING THE PROPORTION SPECIFICATION.
 - MORTAR FOR INTERIOR ABOVE GRADE:
 - LOADBEARING WALLS: CSA-A179-04, TYPE S USING THE PROPORTION SPECIFICATION.
 - NON-LOADBEARING PARTITIONS: CSA-A179-04, TYPE S USING THE PROPORTION SPECIFICATION.
 - STAIN RESISTANT POINTING MORTAR: CSA-A179-04, NON-STAINING MASONRY CEMENT FOR CEMENTITIOUS PORTION OF SPECIFIED MORTAR TYPE.
 - MORTAR MIXES
 - ADD MORTAR COLOUR AND ADMIXTURES TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE UNIFORMITY OF MIX AND COLOURATION.
 - DO NOT USE ANTIFREEZE LIQUIDS, CALCIUM CHLORIDE, FROST INHIBITORS BASED ON CALCIUM CHLORIDE, SALTS OR OTHER SUBSTANCES USED FOR LOWERING THE FREEZING POINT OR ACCELERATING SETTING TIME.
 - IF MOISTURE IS LOST BY EVAPORATION, RETEMPER AS DIRECTED BY THE MANUFACTURER.
 - USE MORTAR WITHIN PERIOD SPECIFIED BY MORTAR MANUFACTURER.
 - GROUT MIXES
 - BOND BEAMS: 21 MPA (3000 PSI) STRENGTH AT 28 DAYS; 150 MM (6 INCHES) SLUMP; MIXED TO CSA-A179-04 FINE GROUT.
 - ENGINEERED MASONRY: 21 MPA (3000 PSI) STRENGTH AT 28 DAYS; 150 MM (6 INCHES) SLUMP; MIXED TO CSA-A179 FINE GROUT.
 - GROUT MIXING
 - THOROUGHLY MIX GROUT INGREDIENTS IN QUANTITIES NEEDED FOR IMMEDIATE USE TO CSA-A179-04 FINE GROUT.
 - ADD ADMIXTURES IN TO MANUFACTURER'S WRITTEN INSTRUCTIONS; MIX UNIFORMLY.
 - DO NOT USE ANTIFREEZE LIQUIDS, CALCIUM CHLORIDE, FROST INHIBITORS BASED ON CALCIUM CHLORIDE, SALTS OR OTHER SUBSTANCES USED FOR LOWERING THE FREEZING POINT OR ACCELERATING SETTING TIME.
 - MASONRY UNITS
 - GENERAL:
 - ALL INTERIOR VERTICAL AND/OR HORIZONTAL CORNERS TO BE BULLNOSE BLOCK.
 - WHERE CSA STANDARDS ARE REFERENCED, REFER TO THE MOST RECENT STANDARDS APPLICABLE.
 - PRODUCTS:
 - CONCRETE BLOCK MASONRY UNITS (CMU): CAN/CSA-A165 SERIES-04
 - CLASSIFICATION: H/15/C/M, AND H/20/C/M.
 - SIZE: AS NOTED ON DRAWINGS, MODULAR.
 - THICKNESS: AS NOTED ON DRAWINGS.
 - COMPRESSIVE STRENGTH: 15MPA MINIMUM, BASED ON NET AREA, OR AS OTHERWISE NOTED ON STRUCTURAL DRAWINGS.
 - ARCHITECTURAL CONCRETE BLOCK MASONRY UNITS: CAN/CSA-A165 SERIES-04
 - CLASSIFICATION: S/90/C/M, H/15/C/M, AND H/205/C/M.
 - SIZE: AS NOTED ON DRAWINGS, MODULAR.
 - THICKNESS: AS NOTED ON DRAWINGS.
 - STYLE: PLAIN STRETCHER.
 - ALL INTERIOR VERTICAL AND/OR HORIZONTAL CORNERS TO BE BULLNOSE BLOCK.
 - FIRE RESISTANT CONCRETE BLOCK MASONRY UNITS: CAN/CSA-A165 SERIES-04, CLASSIFICATION 75/20/B/M.
 - FIRE RESISTANCE RATING: TWO (2) HOURS.
 - SIZE: AS NOTED ON DRAWINGS, MODULAR.
 - THICKNESS: AS NOTED ON DRAWINGS.
 - MANUFACTURERS - CONCRETE BLOCK MASONRY UNITS
 - LAFARGE NORTH AMERICA: PLAIN STRETCHER, COLOUR NATURAL GRAY
 - BRAMPTON BRICK
 - PERMACON
 - MERIDIAN BRICK

- DIVISION 06 - WOOD AND PLASTICS**
- WOOD BLOCKING**
 - MATERIALS
 - CONCEALED WOOD BLOCKING FOR SUPPORT OF: WALL CABINETS, COUNTERTOPS AND VANITIES SHALL BE AS LISTED BELOW:
 - LUMBER: NLGA (STANDARD GRADING RULES FOR CANADIAN LUMBER).
 - CSA-0141, SOFTWOOD, AWMAC CUSTOM GRADE.
 - 7 PERCENT MAXIMUM MOISTURE CONTENT.
 - PARTICLEBOARD (MAT-FORMED): CAN/CSA 3-0188.1-M-78 COMPOSED OF WOOD CHIPS, MINIMUM 720 KG/CUBIC METER (45 LBS/CUBIC FOOT) DENSITY, MOISTURE RESISTANT; OF GRADE TO SUIT APPLICATION; SANDED FACES.
 - EXECUTION
 - PROVIDE AND INSTALL ALL FASTENINGS AND HARDWARE AS SHOWN ON THE DRAWINGS SPECIFIED HEREIN, OR REQUIRED FOR PROPER INSTALLATION OF CARPENTRY AND MILLWORK. FASTENINGS NOT SHOWN OR SPECIFIED SHALL BE OF A SUITABLE QUALITY, SIZE, STRENGTH, FINISH, AND DURABILITY TO PROVIDE ADEQUATE PERFORMANCE AND/OR APPEARANCE.

- PLASTIC LAMINATE**
 - QUALITY ASSURANCE
 - PLASTIC LAMINATE: SHALL CONFORM TO AWMAC (ARCHITECTURAL WOODWORK MANUFACTURERS ASSOCIATION OF CANADA) - QUALITY STANDARDS, 8TH EDITION.
 - SUBMITTALS
 - SUBMIT SAMPLES OF PLASTIC LAMINATE FOR SELECTION BY CONSULTANT.
 - COLOUR SELECTED FROM MANUFACTURER'S STANDARD RANGE OF COLOURS BY ARCHITECT DURING SHOP DRAWINGS.
 - SUBMIT SHOP DRAWINGS FOR ALL MILLWORK SPECIFIED OR SHOWN ON THE DRAWINGS PRIOR TO FABRICATION. INDICATE DETAILS OF CONSTRUCTION, PROFILES, JOINTING, FASTENING AND OTHER RELATED DETAILS. INDICATE ALL MATERIALS, THICKNESS, FINISHES AND HARDWARE.
 - MATERIALS
 - PRODUCTS: SHALL BE MANUFACTURED BY THE FOLLOWING ACCEPTED MANUFACTURERS.
 - FORMICA
 - ARBORITE
 - WILSONART
 - NEVAMAR
 - MEDIUM DENSITY FIBREBOARD (MDF) NO ADDED UREA FORMALDEHYDE (NAUF): NSI A208.2; COMPOSED OF WOOD FIBRES, MEDIUM DENSITY, MOISTURE RESISTANT; OF GRADE TO SUIT APPLICATION; SANDED FACES. APPLY PLASTIC LAMINATE TO ALL EXPOSED CUT EDGES.
 - EDGING: SHALL BE PLASTIC LAMINATE, COLOUR TO MATCH FACE PANELS, FIELD APPLIED TO MANUFACTURER'S SPECIFICATIONS.
 - COUNTERS, ETC. SHALL BE AS DETAILED ON THE DRAWINGS USING MATERIALS LISTED BELOW:
 - COUNTER TOPS: ROUNDED EDGE AND BACKSPLASH, PLASTIC LAMINATED COVERED, ALL EXPOSED EDGES.
 - FASTENERS SHALL BE AS LISTED BELOW:
 - NAILS AND STAPLES TO CSA B111-1974; GALVANIZED FOR EXTERIOR WORK, INTERIOR HUMID AREAS AND FOR TREATED LUMBER; PLAIN FINISH ELSEWHERE.
 - WOOD SCREWS: TO CSA B35.4-1972, ELECTROPLATED. EXPOSED ENDS TO BE COVERED WITH PLASTIC LAMINATE.

- DIVISION 07 - THERMAL AND MOISTURE PROTECTION**
- JOINT SEALANTS**
 - MATERIALS
 - ACCEPTABLE MATERIALS: SEALANTS MANUFACTURED BY TREMCO, NUCO, OR DOW
 - JOINT FILLER AND BACK-UP: CIRCULAR CROSS SECTION UNLESS SHOWN AS SLAB OR SHEET, MIN. 25% WIDER THAN JOINT, SEMI-RIGID: CLOSED CELL POLYETHYLENE OR POLYURETHANE PRODUCT, ETHAFOAM BY DOW CHEMICAL OF CANADA LTD., OR PRODUCT OF HERCULES INC., DELAWARE USA, RUBBER TUBING OR NON-MIGRATING PLASTICIZED VINYL HAVING A SHORE 'A' HARDNESS OF 20 AND TENSILE STRENGTH OF 130 - 200 KPA, COMPATIBLE WITH SEALANT AND AS RECOMMENDED BY SEALANT MANUFACTURER.
 - BOND BREAKER: AS RECOMMENDED FOR USE BY SEALANT MANUFACTURER
 - VENT TUBES: RIGID CLEAR EXTRUDED PLASTIC, MIN. 6 MM ID AND 9 MM OD
 - SEALANT COLOURS: COLOURS OF EXPOSED SEALANTS AS CHOSEN BY THE CONSULTANT.
 - REFER TO CAULKING COLOUR GUIDE APPENDED TO THIS SECTION, THIS GUIDE IS NOT AN EXHAUSTIVE LIST.
 - INTERIOR CAULKING: (WITH THE EXCEPTION OF EXPANSION JOINTS AND PERIMETERS OF WASHROOM FIXTURES) SHALL BE NON-STAINING ONE PART ACRYLIC TERPOLYMER SEALANT "TREM-FLEX 834" AS MANUFACTURED BY TREMCO LTD., OR APPROVED EQUAL, MEETING THE REQUIREMENTS OF CGSB 19- GP-5M. COLOURS TO BE SELECTED BY THE CONSULTANT FROM THE MANUFACTURER'S STANDARD COLOR RANGE.
 - EXTERIOR NON-TRAFFIC BEARING, WEATHER SIDE OF CONSTRUCTION: USE ONE OF THE FOLLOWING
 - "DYMERIC 240" OR "VULKEM 922" BY TREMCO
 - "RC-2" BY STERNSON CONSTRUCTION PRODUCTS
 - "SILPRUF" BY GENERAL ELECTRIC CANADA
 - "790" BY DOW CORNING
 - "SONOLASTIC 150" BY SONNEORN.
 - TRAFFIC BEARING: TREMCO "DYMERIC 240", MAMECO "VULKEM 45" OR SONNEBORN "SK1"
 - SANITARY CAULKING: DOW CORNING "786" MILDEW RESISTANT SILICONE, GENERAL ELECTRIC "1700" SANITARY SEALANT, "RHODORSIL 8S" OR SONNEBORN "OMINIPUS"
 - SILICONE CAULKING: CLEAR, DOW CORNING "795", GENERAL ELECTRIC 1200, TREMCO PROGLAZE OR SONNEBORNE EQUIVALENT. PROVIDE WITH PRIMER IF REQUIRED.

- AIR BARRIER**
 - MATERIALS
 - MATERIAL COMPATIBILITY: OF VARIOUS MATERIALS SPECIFIED HEREIN, SELECT COMBINATION OF BASE MATERIALS, TRANSITION, BRIDGING AND REINFORCING MEMBRANES, ADHESIVES AND ACCESSORIES SO THAT WHEN CURED, THEY ARE COMPATIBLE AND GIVE BONDING CHARACTERISTICS EQUIVALENT TO SHEAR TRENGTH OF SELECTED AIR/VAPOUR BARRIER MATERIALS USED.
 - SELF ADHESIVE TYPE (SAT): REINFORCED MODIFIED BITUMEN MEMBRANE, MINIMUM 1 MM (40 MILS) THICK, REINFORCED WITH NON-WOVEN POLYESTER FABRIC, MEMBRANE COVERED WITH PLASTIC FILM 1 SIDE, SELF-ADHESIVE ON OTHER, CUT TO SUIT DESIGN AND LAP REQUIREMENTS, 'PERM-A-BARRIER' BY W.R. GRACE & CO. CONSTRUCTION PRODUCTS DIVISION, OR 'BLUESKIN SA' BY BAKOR INC.
 - PRIMER: RECOMMENDED BY MEMBRANE MANUFACTURER.

- VAPOUR BARRIER**
 - MATERIALS
 - POLYETHYLENE SHEET OF MINIMUM 150 UM (6 MILS) THICKNESS TO CAN/CGSB-51.33-M, TYPE 2, SUPPLY MINIMUM 1800 MM (6') ROLL WIDTHS.
 - VAPOUR BARRIER USED WITH FRICTION FIT INSULATION SHALL BE STANDARD COMMERCIAL QUALITY POLYETHYLENE FILM AT LEAST 6 MILS IN THICKNESS CONFORMING WITH ALL TEST REQUIREMENTS TO ASTM D697, D882 AND D1004
 - EXECUTION
 - STAPLE VAPOUR BARRIER TO INSIDE FACE OF INSULATION. ENSURE CONTINUOUS VAPOUR BARRIER ENVELOPE OF ENTIRE BUILDING.
 - LAP JOINTS 150 MM (6")
 - REFER TO DRAWINGS FOR LOCATIONS OF VAPOUR BARRIER.

- DIVISION 07 - THERMAL AND MOISTURE PROTECTION**
- METAL ROOFING**
 - SUBMITTALS:
 - PROVIDE MANUFACTURER'S WRITTEN WARRANTY COVERING FAILURE OF FACTORY-APPLIED EXTERIOR FINISH FOR A PERIOD OF 40 YEARS FROM THE DATE OF SUBSTANTIAL PERFORMANCE.
 - SUBMIT SHOP DRAWINGS FOR SNOW AND ICE RETENTION SYSTEM INDICATING NUMBER OF SNOW GUARDS REQUIRED.
 - MANUFACTURER: COMPATIBILITY BETWEEN ROOFING MATERIALS IS AN ESSENTIAL REQUIREMENT OF THE CONTRACT. SINGLE SOURCE OF PRODUCTS FROM VICWEST, OR EQUIVALENT FROM AGWAY, OR APPROVED ALTERNATE.
 - PRODUCT: PREFORMED METAL ROOF SHEET:
 - METAL ROOFING: PREFINISHED, TO CGSB 93-GP-4M, CLASS PLAIN.
 - FABRICATED FROM ASTM A653 STRUCTURAL QUALITY GRADE 230 GALVANIZED STEEL, WITH Z275 ZINC COATING, AS DESIGNATED BY ASTM A653M. THICKNESS 0.8 MM / 22 GA.
 - PROFILE:
 - SEALED JOINT AT 610 MM / 24" C/C WITH SEAMS A MINIMUM OF 50 MM / 2" ABOVE THE BOTTOM OF THE RIBBED PROFILE. 'TSR' BY VICWEST, OR APPROVED ALTERNATE.
 - FINISH COATING:
 - ACCEPTABLE PRODUCT: 'WEATHER XL' BY VICWEST, OR APPROVED EQUIVALENT BY AGWAY, OR APPROVED ALTERNATE.
 - NOT MORE THAN TWO (2) COLOURS AS LATER SELECTED BY CONSULTANT FROM MANUFACTURER'S STANDARD COLOUR RANGE. COLOURS MAY INCLUDE 'AZ-180, GALVALUME PLUS'
 - SNOW AND ICE RETENTION SYSTEM:
 - PRODUCT: 'NON-PENETRATING SNOSTOP' SYSTEM BY ROOFERS WORLD, OR APPROVED ALTERNATE.
 - COLOUR: PREFINISHED METAL TO MATCH METAL ROOF SYSTEM.
 - DESIGN SUBSTRATE OF EACH ROOF SECTION TO RECEIVE A SNOW AND ICE RETENTION SYSTEM TO WITHSTAND SNOW LOAD CALCULATIONS IN ACCORDANCE WITH OBC.
 - DESIGN AND SIZE SNOW AND ICE RETENTION SYSTEM COMPONENTS TO WITHSTAND SNOW AND ICE LIVE LOAD RATINGS AS CALCULATED IN ACCORDANCE WITH OBC.
 - FASTENERS
 - SCREWS: ANSI B18.6.4, PURPOSE MADE, SELF-DRILLING FASTENERS #12-14 COMPLETE WITH GALVANIZED HEADS AND NEOPRENE WASHERS, COLOUR TO MATCH SHEET METAL ROOFING.
 - ADHESIVE
 - ACCEPTABLE PRODUCT: 'DUOTACK' BY SOPREMA, OR APPROVED ALTERNATE.
 - ACCESSORIES
 - EXPOSED TRIM: VALLEYS, HIPS, CAP STRIP, DRIPS, TRIMS AND STARTER STRIP OF SAME MATERIAL, COLOUR AND GLOSS AS SHEET METAL ROOFING, WITH FASTENER HOLES PRE-PUNCHED.
 - IN ADDITION TO MANUFACTURER'S STANDARD, PROVIDE CUSTOM SHAPES AS SHOWN.
 - NON-EXPOSED ACCESSORIES: GALVANIZED SHEET METAL.
 - PREFINISHED METAL FLUTE CLOSURES: PREFINISHED, COLOUR, PROFILE AND BASE METAL THICKNESS TO MATCH METAL CLADDING.
 - ISOLATION COATING: ALKALI RESISTANT BITUMINOUS PAINT.
 - PLASTIC CEMENT: TO CAN/CGSB-37.5.
 - CLEATS: OF SAME MATERIAL, AND TEMPER AS SHEET METAL: 50 MM / 2" MINIMUM WIDE.
 - THICKNESS SAME AS SHEET METAL BEING SECURED.
 - PIPE BOOTS / FLASHING: EPDM FLASHING:
 - ACCEPTABLE PRODUCT:
 - 'DEKTITE COMBO FLASHING' BY VICWEST
 - 'MASTER PIPE FLASHING' BY WESTMAN STEEL
 - 'MASTER PIPE FLASHING - HI TEMP' BY WESTMAN STEEL
 - OR APPROVED ALTERNATE.
 - WASHERS: OF SAME MATERIAL AS SHEET METAL, 1 MM THICK WITH RUBBER PACKINGS.
 - TOUCH-UP PAINT: AS RECOMMENDED BY SHEET METAL ROOFING MANUFACTURER.

- SHEET METAL FLASHING AND TRIM**
 - MATERIALS
 - PREFINISHED METAL FLASHINGS, SILLS AND DRIP PLATES
 - PREFINISHED METAL FLASHING AND DRIP PLATES (FLAT STOCK):
 - PREFINISHED METAL FLASHING: GALVANIZED STEEL, MINIMUM TEMPER ROLLED ACCORDANCE WITH ASTM A446, TO PROFILES INDICATED, TYPE, COLOUR AND THICKNESS TO MATCH METAL CLADDING. FACTORY APPLIED SILICONE MODIFIED POLYESTER FINISH SHALL BE SERIES 5000 PRECOATING BY DOMINION FOUNDRIES AND STEEL LIMITED OR THE STEEL COMPANY OF CANADA LIMITED.
 - PREFINISHED METAL DRIP PLATES: SIZE AND PROFILE INDICATED, METAL COMPLETE WITH DRIP, CHAIRS, ANCHORING DEVICES AND END DAMS.
 - PREFINISHED 'STANDARD' COLOUR RANGES SERIES
 - ACCEPTABLE PRODUCT: 'WEATHER XL' BY VICWEST, OR EQUIVALENT BY AGWAY, OR IDEAL ROOFING.
 - PREFINISHED METAL SILLS: FULL LENGTH, OF SIZE AND PROFILE INDICATED, METAL COMPLETE WITH DRIP, CHAIRS, ANCHORING DEVICES AND END DAMS.
 - COLOURS: TO MATCH WINDOW AND DOOR FRAMES
 - SHAPE AND SIZE: AS DETAILED ON DRAWINGS, WITH MINIMUM 2% DRAINAGE SLOPE TO EXTERIOR.
 - ALUMINUM SILLS
 - ALUMINUM SILLS, BRAKE-FORMED ALUMINUM SHEET, FULL LENGTH, OF TYPE AND SIZE AND PROFILE INDICATED, ANODIZED ALUMINUM COMPLETE WITH DRIP, CHAIRS, ANCHORING DEVICES AND END DAMS.
 - PREFINISHED METAL EAVESTROUGHS COMPLETE WITH INTEGRAL SCUPPER DOWNPIPE
 - FORM EAVES TROUGHS C/W INTEGRAL SCUPPERS AND DOWNPIPES, 0.91 MM / 20 GAUGE, PREFINISHED SHEET METAL.
 - FORM 'U' BRACKET FROM 1.9 MM / 14 GAUGE, PREFINISHED SHEET METAL.
 - SIZES AND PROFILES AS INDICATED.
 - FABRICATE EAVES TROUGHS COMPLETE WITH INTEGRAL SCUPPER, DOWNPIPES AND NECESSARY FASTENINGS AS INDICATED.

1	February 20, 2026	Issued for Tender and Permit	G
#	Date	Revision	By



All drawings and specifications are the property of the Architect. The Contractor shall verify all dimensions and information on site and report and discrepancy to the Architect before proceeding.

Port Glasgow Trailer Park Seasonal Office and Shower Facility
8650 Furnival Rd, Rodney, ON N0L 2C0
Client Municipality of West Elgin
Project No. 25043

SPECIFICATIONS

Scale	1 : 5
Drawn By	HS
Reviewed By	DD/PG
Revision No.	1
Plot Date	2026-02-20

Drawing No. **A 10.01**

13. **FIBER CEMENT CLADDING**
1. **MANUFACTURER**
 1. ACCEPTABLE MANUFACTURERS:
 1. JAMES HARDIE BUILDING PRODUCTS, INC., AS DISTRIBUTED BY CONVOY SUPPLY – OTTAWA, OR MERKLEY SUPPLY, OTTAWA.
 2. ALLURA FIBER CEMENT.
 3. OR APPROVED ALTERNATE.
 2. **MATERIALS**
 1. HORIZONTAL 16 MM / 5/8" THICK FIBRE CEMENT LAP SIDING COMPLETE WITH CONCEALED FASTENING SYSTEM:
 1. LAP SIDING WITH A SLOPED TOP, BEVELED DRIP EDGE AND NAILING LINE
 2. TYPE AND SIZE AS FOLLOWS:
 1. CEDAR WOOD GRAIN FACE 159 MM / 6 1/4" WITH 127 MM / 5" EXPOSED FACE.
 3. PRIMER: FACTORY PRIMED.
 4. FINISH COAT: FACTORY APPLIED FINISH AS REQUIRED BY MANUFACTURER TO SUIT WARRANTY REQUIREMENTS.
 5. COLOUR: AS LATER SELECTED BY CONSULTANT FROM MANUFACTURERS' FULL RANGE OF COLOURS. NOT MORE THAN TWO(2) COLOURS.
 2. VERTICAL HARDIE PANEL COMPLETE WITH CONCEALED FASTENING SYSTEM:
 1. TYPE AND SIZE AS FOLLOWS:
 1. CEDAR WOOD GRAIN FACE
 2. PRIMER: FACTORY PRIMED.
 3. FINISH COAT: FACTORY APPLIED FINISH AS REQUIRED BY MANUFACTURER TO SUIT WARRANTY REQUIREMENTS.
 4. COLOUR: AS LATER SELECTED BY CONSULTANT FROM MANUFACTURERS' FULL RANGE OF COLOURS. NOT MORE THAN TWO(2) COLOURS.
 3. WOOD BAND/TRIMS: PREMANUFACTURED PREFINISHED TRIM BAND, 89 MM / 3 1/2" X 25 MM / 1" THICK CEDAR PROFILE EMBOSSED BY JAMES HARDIE BUILDING PRODUCTS, INC., OR EQUIVALENT BY ALLURA, OR APPROVED ALTERNATE.
 1. ACCESSORIES:
 2. CORROSION-RESISTANT FLAT AND CORNER TRIM FASTENING TABS AS REQUIRED FOR A COMPLETE CONCEALED SYSTEM.
 3. STARTER STRIPS, CAP PIECES, CLOSURES, AND TRIMS AS REQUIRED FOR A COMPLETE SYSTEM OF MANUFACTURER'S STANDARD, FINISH AS LATER DETERMINED BY CONSULTANT.
 4. FASTENERS: TO CSA B111, STAINLESS STEEL, TYPE AND SIZE AS REQUIRED AND AS RECOMMENDED BY MANUFACTURER FOR INTENDED USE.
 4. SOFFIT BY JAMES HARDIE: CEDARMILL SOFFIT PANEL AND CEDARMILL VENTED SOFFIT PANEL.
14. **FIRESTOPPING:**
 1. **QUALITY ASSURANCE:**
 1. CONTRACTOR QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING THE WORK OF THIS SECTION AND AS FOLLOWS:
 1. FM APPROVED IN ACCORDANCE WITH FM STANDARD 4991 - APPROVAL OF FIRESTOP CONTRACTORS.
 2. FCIA MEMBER IN GOOD STANDING.
 3. LICENSED BY THE PROVINCE OR LOCAL AUTHORITY WHERE APPLICABLE
 4. SUCCESSFULLY COMPLETED NOT LESS THAN FIVE (5) COMPARABLE SCALE PROJECTS
 2. SINGLE SOURCE RESPONSIBILITY: OBTAIN FIRESTOP SYSTEMS FOR EACH TYPE OF PENETRATION AND CONSTRUCTION SITUATION FROM A SINGLE PRIMARY FIRESTOP SYSTEMS MANUFACTURER.
 2. **MATERIALS:**
 1. FIRESTOPPING AND SMOKE SEAL SYSTEMS: IN ACCORDANCE WITH CAN4-S115, CAN/ULC-S101, ASTM E119, AND ASTM E-814.
 2. ASBESTOS-FREE MATERIALS AND SYSTEMS CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GLASS IN COMPLIANCE WITH THE REQUIREMENTS OF CAN4-S115 AND NOT TO EXCEED OPENING SIZES FOR WHICH THEY ARE INTENDED.
 3. TESTS SHALL BE PERFORMED BY AN ACCREDITED TESTING AGENCY ACCEPTABLE TO LOCAL JURISDICTIONAL AUTHORITY.
 4. SERVICE PENETRATION ASSEMBLIES: CERTIFIED BY ULC IN ACCORDANCE WITH CAN4-S115 AND LISTED IN ULC GUIDE NO. 40 U19.
 5. SERVICE PENETRATION FIRESTOP COMPONENTS: CERTIFIED BY ULC IN ACCORDANCE WITH CAN4-S115 AND LISTED IN ULC GUIDE NO.40 U19.13 AND ULC GUIDE NO. 40 U19.15 UNDER THE LABEL SERVICE OF ULC.
 6. FIRE RESISTANCE RATING OF INSTALLED FIRESTOPPING ASSEMBLY NOT TO BE LESS THAN THE FIRE RESISTANCE RATING OF SURROUNDING FLOOR AND WALL ASSEMBLY AS INDICATED.
 7. FOR FIRESTOPPING AND SMOKE SEALS AT OPENINGS FOR EASE OF RE-ENTRY SUCH AS CABLES, USE ELASTOMERIC SEAL; DO NOT USE A CEMENTITIOUS OR RIGID SEAL AT SUCH LOCATIONS.
 8. FOR FIRESTOPPING AND SMOKE SEALS AT OPENINGS AROUND PENETRATIONS FOR PIPES, DUCTWORK AND OTHER MECHANICAL ITEMS REQUIRING SOUND AND VIBRATION CONTROL USE ELASTOMERIC SEAL; DO NOT USE A CEMENTITIOUS OR RIGID SEAL AT SUCH LOCATIONS.
 9. PRIMERS: TO MANUFACTURER'S RECOMMENDATION FOR SPECIFIC MATERIAL, SUBSTRATE, AND END USE.
 10. WATER (IF APPLICABLE); POTABLE, CLEAN AND FREE FROM INJURIOUS AMOUNTS OF DELETERIOUS SUBSTANCES.
 11. DAMMING AND BACKUP MATERIALS, SUPPORTS AND ANCHORING DEVICES: TO MANUFACTURER'S RECOMMENDATIONS, AND IN ACCORDANCE WITH TESTED ASSEMBLY BEING INSTALLED AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
 12. SEALANTS FOR VERTICAL JOINTS: NON-SAGGING.
 13. ROCK WOOL: ROXUL "SAFE"

- DIVISION 08 - OPENINGS**
15. **METAL DOORS AND FRAMES**
 1. **REFERENCE STANDARDS:**
 1. CSDMA (CANADIAN STEEL DOOR MANUFACTURERS ASSOCIATION).
 1. RECOMMENDED DIMENSIONAL STANDARDS FOR COMMERCIAL STEEL DOORS AND FRAMES, 2000.
 2. SELECTION AND USAGE GUIDE FOR STEEL DOORS AND FRAMES, 1990.
 2. DHI (DOOR HARDWARE INSTITUTE) - THE INSTALLATION OF COMMERCIAL STEEL DOORS AND STEEL FRAMES, INSULATED STEEL DOORS IN WOOD FRAMES AND BUILDERS' HARDWARE.
 3. NFPA 80-2007 - FIRE DOORS AND FIRE WINDOWS.
 4. NFPA 252-2012 - METHODS OF FIRE TESTS OF DOOR ASSEMBLIES.
 2. **SUBMITTALS:**
 1. SUBMIT SHOP DRAWINGS TO CONSULTANT IN ACCORDANCE WITH SUBMITTAL PROCEDURES
 3. **MATERIALS:**
 1. SHEET STEEL: GALVANIZED STEEL TO ASTM A653/A653M, COMMERCIAL GRADE (CS), TYPE B, COATING DESIGNATION Z275 (G90) FOR EXTERIOR DOORS AND FRAMES, COATING DESIGNATION ZF001 (A01) FOR INTERIOR DOORS AND FRAMES.
 2. REINFORCEMENT: TO CSA G40.20-13/G40.21-13, TYPE 44W, COATING DESIGNATION TO ASTM A653/A653M, ZF75 (A25).
 3. LEAD: ASTM B29-9, CAST OR ROLLED PURE LEAD.
 4. **DOOR CORE MATERIALS:**
 1. HONEYCOMB CORE: STRUCTURAL SMALL CELL 25.4 MM (1 INCH) MAXIMUM KRAFT PAPER HONEYCOMB, SANDED TO REQUIRED THICKNESS.
 2. TEMPERATURE RISE RATED (TRR) CORE: COMPOSITION TO PROVIDE FIRE-PROTECTION RATING AND LIMIT TEMPERATURE RISE ON UNEXPOSED SIDE OF DOOR TO 250°C (450°F) AT 30 OR 60 MINUTES, AS DETERMINED BY GOVERNING CODE REQUIREMENTS. CORE TESTED AS PART OF A COMPLETE DOOR AND FRAME ASSEMBLY, IN ACCORDANCE WITH CAN4-S104, AND LISTED BY A NATIONALLY RECOGNIZED TESTING AGENCY HAVING A FACTORY INSPECTION SERVICE.
 5. **ANCHORS:**
 1. FRAMES IN MASONRY: ADJUSTABLE "T" STRAP ANCHORS.
 2. LABELED FRAMES: TO CONFORM TO ULC REQUIREMENTS.
 3. FRAMES IN GYPSUM BOARD PARTITIONS: STEEL ANCHOR CLIPS AND FLOOR ANCHORS OF SUITABLE DESIGN SECURELY WELDED INSIDE EACH JAMB.
 4. ANCHORAGE TO FLOOR: MINIMUM 1/8" THICK CLIP ANGLES WITH 2 HOLES FOR EXPANSION BOLTING TO FLOOR.
 6. **ADHESIVES:**
 1. HONEYCOMB CORES AND STEEL COMPONENTS: HEAT RESISTANT, STRUCTURAL REINFORCED EPOXY, RESIN BASED ADHESIVE.
 2. POLYISOCYANURATE CORES: HEAT RESISTANT, EPOXY RESIN BASED, LOW VISCOSITY, CONTACT CEMENT.
 3. LOCK SEAM: REINFORCED EPOXY RESIN, HIGH VISCOSITY, THICKSOTROPTIC SEALANT.
 7. **PRIMERS:**
 1. RUST INHIBITIVE TOUCH-UP ONLY.
 8. **ACCESSORIES:**
 1. DOOR SILENCERS: SINGLE STUD RUBBER/NEOPRENE.
 2. EXTERIOR TOP CAPS: RIGID POLYVINYLCHLORIDE EXTRUSION CONFORMING TO CGSB-41-GP-19MA.
 3. FRAME THERMAL BREAKS: RIGID POLYVINYLCHLORIDE EXTRUSION CONFORMING TO CGSB-41-GP-19MA.
 4. WEATHERSTRIPPING: RESILIENT RUBBER SET IN ALUMINUM FRAME.
 4. **FABRICATION - DOORS:**
 1. EXTERIOR DOORS: LAMINATED CORE CONSTRUCTION.
 2. INTERIOR DOORS: LAMINATED CORE CONSTRUCTION.
 3. MORTISED, BLANKED, REINFORCED, DRILLED AND TAPPED FOR TEMPLATED HARDWARE, IN ACCORDANCE WITH TEMPLATES PROVIDED BY HARDWARE SUPPLIER.
 4. REINFORCE FOR SURFACE MOUNTED HARDWARE, ANCHOR HINGES, THRUST PIVOTS, PIVOT REINFORCED HINGES, OR NON-TEMPLATED HARDWARE.
 5. TOP AND BOTTOM CHANNELS: INVERTED, RECESSED, WELDED STEEL CHANNELS.
 6. EXTERIOR DOOR: FLUSH PVC TOP CAPS.
 7. PROVIDE FACTORY-APPLIED TOUCH-UP PRIMER AT AREAS WHERE ZINC COATING HAS BEEN REMOVED DURING FABRICATION.
 8. LAMINATED CORE CONSTRUCTION:
 1. EXTERIOR DOORS: BOTH FACE SHEETS 1.6 MM (16 GAUGE) STEEL, WITH POLYISOCYANURATE CORE, LAMINATED UNDER PRESSURE TO FACE SHEETS.
 2. INTERIOR DOORS: BOTH FACE SHEETS 1.6 MM (16 GAUGE) STEEL WITH VERTICAL STEEL STIFFENER CORE, LAMINATED UNDER PRESSURE TO FACE SHEETS.
 3. LAMINATE VERTICAL STEEL STIFFENERS TO EACH FACE SHEET AT 150 MM (6 INCHES) ON CENTER MAXIMUM AND WITH 0.36" BASE STEEL THICKNESS.
 4. FILL VOIDS BETWEEN VERTICAL STIFFENERS WITH FIBERGLASS BATT INSULATION.
 5. LOGINTUDAL JOINTS SHALL BE WELDED, DRESSED, AND FILLED.
 5. **FABRICATION - FRAMES:**
 1. EXTERIOR FRAMES: 1.6 MM (16 GAUGE) THICK BASE METAL THICKNESS.
 1. FRAMES: WELDED TYPE CONSTRUCTION.
 2. INTERIOR FRAMES: 1.6 MM (16 GAUGE) THICK BASE METAL THICKNESS.
 1. DOOR FRAMES: WELDED TYPE CONSTRUCTION.
 3. WELD IN PLACE ALL FRAME BACK BOXES, PROVIDED IN **DIVISION 16** FOR ELECTRICAL HARDWARE. BOXES SHALL BE CENTERED AROUND ELECTRICAL HARDWARE PREPARATION.
 4. PROVIDE 1/2" CONDUIT TO ALL ELECTRICAL HARDWARE LOCATIONS IN MULLIONS AND MID RAILS. COORDINATE EXACT LOCATION WITH **DIVISION 16**.
 5. **ANCHORS:**
 1. ALL ANCHORS TO BE CONCEALED
 2. PROVIDE FRAMES FOR INSTALLATION IN MASONRY WITH WALLS WITH THE FOLLOWING NUMBER OF ANCHORS:
 1. FRAMES UP TO 7'-6" HEIGHT, 3 ANCHORS
 2. FRAMES 7'-6" – 8'-0", 5 ANCHORS
 3. FRAMES OVER 8'-0", 1 ANCHOR FOR EACH 2'-0" OR FRACTION THEREOF IN HEIGHT PROVIDE FRAMES FOR INSTALLATION IN MASONRY WITH WALLS WITH THE FOLLOWING NUMBER OF ANCHORS.
 6. **FINISH:**
 1. FACTORY FINISH: BAKED ENAMEL, COLOUR AS SELECTED BY CONSULTANT

16. **FIBERGLASS WINDOWS AND DOORS**
1. **SUBMITTALS**
 1. **SHOP DRAWINGS:**
 1. SUBMIT MANUFACTURER'S SHOP DRAWINGS, INDICATING DIMENSIONS, CONSTRUCTION, COMPONENT CONNECTIONS AND LOCATIONS, ANCHORAGE METHODS AND LOCATIONS, HARDWARE LOCATIONS, AND INSTALLATION DETAILS.
 2. WARRANTY: SUBMIT AN EXTENDED WARRANTY FOR FIBREGLASS WINDOWS AND DOORS IN ACCORDANCE WITH GENERAL CONDITIONS, EXCEPT THAT WARRANTY PERIOD IS EXTENDED TO TEN (10) YEARS FROM THE DATE OF SUBSTANTIAL PERFORMANCE.
 2. **MATERIALS**
 1. MANUFACTURER: WINDOWS AND DOORS SHALL BE OF A STANDARD, QUALITY AND PERFORMANCE AS MANUFACTURED BY DUXTON WINDOWS AND DOORS, FIBERTEC OR INLINE FIBERGLASS LIMITED. BASIS OF DESIGN IS DUXTON WINDOWS.
 2. WINDOW FRAMES SHALL BE PULTRUDED FIBERGLASS, HAVING A MINIMUM GLASS CONTENT OF 60%, MEETING AND EXCEEDING AAMA/NWDA 305.
 3. FRAME: FRAME PROFILES SHALL BE MADE WITH 2.3 MM / 0.090" THICK PULTRUDED FIBERGLASS. NON-STRUCTURAL ACCESSORY MEMBERS ARE PERMITTED TO BE VINYL OR ALUMINUM AND ARE TO BE IDENTIFIED AS SUCH ON SHOP DRAWINGS.
 1. FRAME DEPTH: 3 1/4"
 4. FINISH: ALL EXPOSED SURFACES SHALL BE COATED WITH A POLYURETHANE ENAMEL FINISH, WITH A MEDIUM GLOSS OF 17-35, IN COMPLIANCE WITH AAMA 623.
 1. SPLIT FINISH – BOTH EXTERIOR AND INTERIOR ARE DIFFERENT COLOURS.
 2. COLOURS TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD OR CUSTOM COLOURS (INCLUDING BLACK), NO MORE THAN TWO (2) EXTERIOR AND ONE (1) INTERIOR COLOUR.
 5. ISOLATION COATING: ALKALI RESISTANT BITUMINOUS PAINT.
 6. OPERATE UNIT:
 1. SASH LOCKS: PROVIDE DOUBLE SASH LOCKS.
 7. WEATHERSTRIP: SANTROPRENE BULB EXTERIOR SEAL WITH THERMOPLASTIC BULB CENTRE SEAL AND INNER THERMOPLASTIC SEAL.
 8. **INSTALLATION ACCESSORIES**
 1. FLASHING/SEALANT TAPE:
 1. ALUMINUM-FOIL-BACKED BUTYL WINDOW AND DOOR FLASHING TAPE.
 2. MAXIMUM TOTAL THICKNESS: 0.013 INCH.
 3. UV RESISTANT.
 4. VERIFY SEALANT COMPATIBILITY WITH SEALANT MANUFACTURER.
 2. INSULATING-FOAM SEALANT:
 1. LOW-EXPANSION, LOW-PRESSURE POLYURETHANE INSULATING FOAM SEALANT.
17. **DOOR HARDWARE**
 1. **INFORMATION**
 1. REFER TO DOOR AND FRAME SCHEDULE AND HARDWARE GROUPS. DOOR HARDWARE LISTED PROVIDES GENERAL REQUIREMENTS FOR PROJECT AND DOES NOT INCLUDE SPECIFIC MANUFACTURERS OR MODELS.
 2. CONTRACTOR IS TO CARRY AN ALLOWANCE OF \$20,000 FOR PURCHASE AND SUPPLY OF DOOR HARDWARE.
 2. **SUBMITTALS**
 1. **HARDWARE LIST:**
 1. SUBMIT CONTRACT HARDWARE LIST.
 2. INDICATE SPECIFIED HARDWARE, INCLUDING MAKE, MODEL, MATERIAL, FUNCTION, SIZE, FINISH AND OTHER PERTINENT INFORMATION.
 3. **KEYING**
 1. DOORS, PADLOCKS AND CABINET LOCKS TO BE KEyed ALIKE MASTER KEyed.
 2. FACTORY KEY CYLINDERS TO OWNER REQUIREMENTS.
 3. SUPPLY KEYS IN DUPLICATE FOR EVERY LOCK IN THIS CONTRACT.
18. **GLAZING**
 1. **MATERIALS**
 1. SAFETY GLASS: TO CAN/CGSB-12.1, [TRANSPARENT] COMPLETE WITH POLISHED EDGES, TO MINIMUM THICKNESS AS FOLLOWS:
 1. TEMPERED, 6 MM / 1/2" THICK MINIMUM.
 2. INSULATING GLASS UNITS:
 1. INSULATING GLASS UNITS: TO CAN/CGSB-12.8, DOUBLE UNIT, [25] MM / 1" OVERALL THICKNESS, SAFETY GLASS BOTH LITES WHERE INDICATED.
 2. INTER-CAVITY SPACE THICKNESS: TO SUIT OVERALL THICKNESS AND GLASS THICKNESS, ARGON FILLED, WITH NON-CONDUCTIVE SPACERS
 3. GLAZING FILM: DIMENSIONALLY STABLE, DECORATIVE TRANSLUCENT FILM WITH UNIFORM APPEARANCE OF ACID ETCHED GLASS WITH A SOFT FROSTED APPEARANCE, SIZE TO SUIT.
 1. ACCEPTABLE PRODUCT: '7725-314 DUSTED CRYSTAL' BY 3M OR EQUIVALENT BY MADICO, INC. AS DISTRIBUTED BY WINDOW FILM SYSTEMS, OR LLUMAR, OR APPROVED ALTERNATE.
 4. **ACCESSORIES**
 1. SETTING BLOCKS: EPDM SHORE A DUROMETER HARDNESS TO ASTM D2240 [AS RECOMMENDED BY MANUFACTURER TO SUIT GLAZING METHOD, GLASS LITE WEIGHT AND AREA.
 2. SPACER SHIMS: [NEOPRENE] SHORE A DUROMETER HARDNESS TO ASTM D2240, [75 MM / 3"] LONG X ONE HALF HEIGHT OF GLAZING STOP X THICKNESS TO SUIT APPLICATION. SELF-ADHESIVE ON ONE FACE.
 3. **GLAZING TAPE:**
 1. PREFORMED BUTYL COMPOUND WITH INTEGRAL RESILIENT TUBE SPACING DEVICE, [10-15] SHORE A DUROMETER HARDNESS TO ASTM D2240; COILED ON RELEASE PAPER; 6 MM WIDE X 3 MM THICK / 1/2" WIDE X 1/8" THICK SIZE; BLACK COLOUR.
 1. ACCEPTABLE PRODUCT: 'POLYSHIM II TAPE', BY TREMCO.

- DIVISION 09 - FINISHES**
19. **GYPSUM BOARD**
 1. GYPSUM BOARD: ASTM C1396/C1396M, PAPER-FACED, REGULAR CORE, 12.7 MM (1/2) INCH AND TYPE X, 12.7, 15.9 OR 25.4 MM (1/2, 5/8 OR 1 INCH) THICK; MAXIMUM THICK (1220) MM (48) INCHES WIDE, MAXIMUM AVAILABLE LENGTH IN PLACE; TAPERED EDGES, ENDS SQUARE CUT. FIRE RATED DRYWALL TO HAVE ULC RATING. REFER TO DRAWINGS FOR THICKNESS.
 2. MOISTURE RESISTANT GYPSUM SHEATHING BOARD: ASTM C1396/C1396M, PAPER-FACED, MOISTURE RESISTANT, REGULAR CORE, 12.7 MM (1/2 INCH) THICK; AND TYPE X, 12.7, 15.9 OR 25.4 MM (1/2, 5/8 OR 1 INCH) THICK; MAXIMUM THICK (1220) MM (48) INCHES WIDE, MAXIMUM AVAILABLE LENGTH IN PLACE; TAPERED EDGES, ENDS SQUARE CUT. FIRE RATED DRYWALL TO HAVE ULC RATING. REFER TO DRAWINGS FOR THICKNESS.
 3. CASING BEADS: MINIMUM 28 U.S. GAUGE GALVANIZED SHEET STEEL, WITH PERFORATED STEEL FLANGES SUITABLE FOR TAPING AND FILLING. SECTION 200-A METAL TRIM BY CGC OR EQUAL.
 4. RESILIENT CHANNELS: GALVANIZED STEEL "RC-1" AS MANUFACTURED BY CGC OR EQUAL. SIZE AS INDICATED ON THE DRAWINGS.
 5. SCREWS: DRYWALL SCREWS, SELF-DRILLING, SELF-TAPPING, CASE HARDENED, OR LENGTH RECOMMENDED BY DRYWALL MANUFACTURER FOR EACH APPLICATION.
 6. JOINT TAPING: ASTM C475/C475M-15, (EXPOSED DRYWALL IN THE FINISHED STRUCTURE), FOR TAPERED JOINTS, END JOINTS, AND INTERNAL CORNERS. APPLY A THIN COAT OF JOINT FILLER OVER JOINT, EMBED JOINT TAPE, AND COVER EDGES OF EMBEDDED TAPE WITH A THIN COAT OF JOINT FILLER. AFTER BEDDING IS DRY, APPLY A SECOND COAT EXTENDING AT LEAST 4" (100MM) EACH SIDE OF JOINT. AFTER SECOND COAT IS DRY, APPLY A THIN COAT OF TOPPING CEMENT, FEATHERED AT LEAST 8" (200MM) EACH SIDE OF JOINT.
 7. JOINT TAPING: (NOT EXPOSED IN THE FINISHED STRUCTURE). APPLY A THIN COAT OF JOINT FILLER OVER JOINT, EMBED JOINT TAPE AND COVER WITH A THIN COAT AT JOINT FILLER.
 8. SECURE CORNER BEAD ALONG ALL EXTERNAL CORNERS AT 6" (150MM) O.C. APPLY JOINT FILLER FLUSH WITH NOSE OF THE BEAD AND FEATHER AT LEAST 4" (100MM) ONTO SURFACE OF BOARD EACH SIDE OF CORNER. APPLY A THIN COAT OF TOPPING CEMENT TO EACH SIDE OF CORNER FEATHERED AT LEAST 6" (150MM) ONTO BOARD SURFACE BEYOND THE CORNER.
 9. FILL OVER ALL DEPRESSIONS, NAIL HEADS, AND SCREW HEADS WITH A TWO-COAT APPLICATION OF JOINT FILLER, ALLOWING THE FIRST COAT TO DRY BEFORE APPLYING THE SECOND. ALLOW PRECEDING COAT TO DRY BEFORE APPLYING FINISH COAT OF TOPPING CEMENT.
 10. AFTER FINAL COATS OF TOPPING CEMENT HAVE DRIED AT LEAST 24 HOURS, SAND THE SURFACE LIGHTLY WITH NO. 100 SANDPAPER TO LEAVE IT SMOOTH, READY FOR DECORATION (ONLY APPLIES TO EXPOSED DRYWALL). TAKE CARE TO AVOID SANDING THE PAPER SURFACE OF THE BOARD ADJACENT TO THE FILLED JOINT.
 20. **NON-LOAD BEARING WALL FRAMING**
 1. **MATERIAL**
 1. NON-LOAD BEARING CHANNEL STUD FRAMING: TO ASTM C645-14, STUD WIDTH AS REQUIRED, ROLLFORMED FROM .091MM (25 GAUGE) THICKNESS HOT DIPPED GALVANIZED STEEL SHEET, FORSCREW ATTACHMENT OF GYPSUM BOARD. KNOCK-OUT SERVICE HOLES AT 18" CENTERS.
 2. FLOOR AND TOP TRACKS: TO ASTM C645-14, IN WIDTHS TO SUIT STUD SIZES, 1 1/4" FLANGE HEIGHT.
 3. METAL CHANNEL STIFFENER: 1 1/2" X 7/16" SIZE, 1/16" THICK COLD ROLLED STEEL, COATED WITH RUST INHIBITIVE COATING.
 4. DRYWALL FURRING CHANNELS: HAT SHAPED, ZINC-COATED BY HOT-DIP PROCESS 0.5 MM / 25 GA. BASE THICKNESS, 22 MM X 70 MM X 0.5 MM 7/8" X 2 3/4" X 25 GA. CORE THICKNESS GALVANIZED STEEL CHANNELS FOR SCREW ATTACHMENT OF GYPSUM BOARD.
 1. ACCEPTABLE PRODUCT:
 1. 'D-1001 DRYWALL FURRING CHANNELS' BY BAILEY METAL PRODUCTS LIMITED.
 2. OR APPROVED ALTERNATE.
 5. INSULATING STRIP: RUBBERIZED, MOISTURE RESISTANT 3/16" THICK FOAM STRIP, 2" WIDE, WITH SELFSTICKING ADHESIVE ON ONE FACE, LENGTHS AS REQ'D.

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All drawings and specifications are the property of the Architect. The Contractor shall verify all dimensions and information on site and report and discrepancy to the Architect before proceeding.

Port Glasgow Trailer Park Seasonal Office and Shower Facility
8650 Furnival Rd, Rodney, ON N0L 2C0
Client Municipality of West Elgin
Project No. 25043

SPECIFICATIONS

Scale	1 : 5
Drawn By	HS
Reviewed By	DD/PG
Revision No.	1
Plot Date	2026-02-20

Drawing No. **A 10.02**

21. **CERAMIC TILING**
1. **QUALITY ASSURANCE**
 1. DO TILE WORK IN ACCORDANCE WITH INSTALLATION MANUAL 2012-2014 "CERAMIC TILE", PRODUCED BY TERRAZZO TILE AND MARBLE ASSOCIATION OF CANADA (TTMAC).
 2. **SUBMITTALS**
 1. **SAMPLES:**
 1. BASE TILE: SUBMIT TWO (2), SAMPLE PANELS OF EACH COLOUR, TEXTURE, SIZE, AND PATTERN OF TILE.
 2. WALL TILE: SUBMIT TWO (2), SAMPLE PANELS OF EACH COLOUR, TEXTURE, SIZE, AND PATTERN OF TILE.
 3. **MATERIALS**
 1. **WALL TILE:**
 1. CERAMIC WALL TILE: AS INDICATED ON DRAWINGS, TO CAN/CGSB 74.1, [76 X 150 MM / 3" X 6"] SIZE, STRAIGHT EDGES, LINEAR PATTERN, NOT MORE THAN FOUR (4) COLOURS AS LATER SELECTED BY CONSULTANT FROM FULL RANGE OF COLOURS.
 1. ACCEPTABLE PRODUCT:
 1. 'COLOUR DIMENSION SERIES', BY OLYMPIA TILE.
 2. OR APPROVED ALTERNATE.
 2. **BASE TILE:**
 1. CERAMIC WALL TILE: FOR CHANGE ROOMS AND WASHROOM, [100 MM X 200 MM / 4" X 8"] SIZE.
 2. ACCEPTABLE PRODUCT:
 1. CENTURA VITRA, FUNCTION, COLOUR: DOTI LIGHT GREY.
 2. OR APPROVED ALTERNATE BY OLYMPIA TILE.
 3. **TRIM SHAPES**
 1. CORNER JOINT: CLEAR SATIN ANODIZED ALUMINUM, PROFILE FOR INSIDE CORNERS AND AT FLOOR AND WALL TRANSITIONS, COVED-SHAPED CAPABLE OF ABSORBING MOVEMENT, COMPLETE WITH CORNER AND END CAP ADAPTORS, AND ALL ACCESSORIES FOR COMPLETE SYSTEM.
 1. ACCEPTABLE PRODUCT: 'DILEX-AHK' BY SCHLUTER, OR APPROVED ALTERNATE.
 2. TRANSITION TRIM: PURPOSE-MADE METAL EXTRUSION; SATIN ALUMINUM BEADS AND TRIMS AT ALL OUTSIDE CORNERS, FLOOR, WALL AND FLOOR BASE TRANSITIONS, AND EDGE PROTECTION.
 1. AT ALL OUTSIDE CORNER LOCATIONS AND ABOVE ALL CERAMIC FLOOR TILE BASES.
 1. ACCEPTABLE PRODUCT: 'ANODIZED ALUMINUM RONDEC', BY SCHLÜTER OR APPROVED ALTERNATE.
 4. **TILE UNDERLAYMENT**
 1. TILE UNDERLAYMENT: READY-TO-USE, FLEXIBLE, MOLD AND MILDEW RESISTANT WATERPROOFING CRACK ISOLATION MEMBRANE TO FORM A SMOOTH, MONOLITHIC, WATERTIGHT SURFACE OVER WALLS, FLOORS AND CEILINGS, MINIMUM THICKNESS 50 MILS WET FILM THICKNESS INCLUDING WATERPROOFING MESH AT ALL SUBSTRATE JOINTS, FIELD SEAMS, INSIDE CORNERS, OUTSIDE CORNERS, ANYWHERE VERTICAL SURFACES MEET HORIZONTAL SURFACES SUCH AS CURBS, BENCH SEATS, COLUMNS, ETC., OR ANYWHERE DISSIMILAR MATERIALS MEET, DRAINS AND EXPANSION/CONTROL JOINTS.
 1. ACCEPTABLE PRODUCT: 'HYDRAFLEX WATERPROOFING CRACK ISOLATION MEMBRANE' AND 'WATERPROOFING MESH' BY TEC, OR APPROVED ALTERNATE.
 2. TILE UNDERLAYMENT (WATERPROOF MEMBRANE): 0.508 MM / 20 MIL THICK, SHEET APPLIED POLYETHYLENE WATERPROOF MEMBRANE AND VAPOUR RETARDER FOR TILED FLOORS, WALLS AND CEILINGS, ANCHORING FLEECE LAMINATED TO BOTH SIDES, WATER VAPOR PERMEANCE OF 0.18 PERMS, AS LISTED BY CUPC AND EVALUATED BY ICC-ES.
 1. ACCESSORIES: AS REQUIRED FOR A COMPLETE SYSTEM AS RECOMMENDED BY MANUFACTURER TO PROVIDE WATERPROOF MEMBRANE INCLUDING BUT NOT LIMITED TO PREFORMED SEAMLESS INSIDE / OUTSIDE CORNERS, SEAMLESS CORNERS FOR WATERPROOFING FLOOR / WALL / CEILING / SHOWER BASE CONNECTIONS, PREFABRICATED SECTIONS WITH OVERMOLDED RUBBER GASKETS TO SEAL PIPE PROTRUSIONS THROUGH THE WATERPROOFING MEMBRANE (E.G., AT SHOWERHEADS AND FAUCETS) AND PROTECT MOISTURE-SENSITIVE BACKING PANELS AT THE MIXING VALVE.
 1. ACCEPTABLE PRODUCT: 'KERDI-DS', BY SCHLÜTER OR APPROVED ALTERNATE.

22. **FLOORING**
1. **SUBMITTALS**
 1. **SAMPLES:**
 1. SUBMIT SAMPLE PIECES OF FLOORING MATERIALS.
 2. **MATERIALS**
 1. LUXURY VINYL PLANK (LVP): VINYL PLANK FLOORING COMPLETE WITH ALL NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION
 1. MATERIAL PROPERTIES:
 1. THICKNESS: 5.0 MM
 2. COLOUR: AS LATER SELECTED BY CONSULTANT FROM MANUFACTURER'S STANDARD COLOUR RANGE; NOT MORE THAN TWO (2) COLOURS.
 3. ACCEPTABLE PRODUCT: 'GALLERIA' BY BEAULIEAU CANADA, OR 'RAPIDO' BY BEAULIEAU CANADA, OR APPROVED ALTERNATE.
 2. RESILIENT BASE (RB): 3 MM / 1/8" THICK, COLOURED VINYL BASE, COVED BASE; COLOUR AS LATER SELECTED BY CONSULTANT FROM MANUFACTURERS STANDARD COLOUR RANGE. NOT MORE THAN THREE (3) COLOURS.
 1. 100 MM / 4" HIGH TO ALL LOCATIONS UNLESS OTHERWISE INDICATED.
 1. ACCEPTABLE MANUFACTURER: TARKETT, OR FLEXCO.
 3. **ACCESSORIES**
 1. ADAPTORS, FILLER STRIPS, EDGE GUARDS, TRANSITION STRIPS, REDUCERS AND COVE CAPS: THICKNESS AND WIDTH TO SUIT FLOOR THICKNESS AND CONDITION.
 1. ACCEPTABLE MANUFACTURER: TARKETT, SCHLUTER OR APPROVED ALTERNATE.
 4. **PRIMERS AND ADHESIVES:** WATERPROOF, OF TYPES RECOMMENDED BY FLOORING MANUFACTURER FOR SPECIFIC MATERIAL ON APPLICABLE SUBSTRATE, ABOVE, AT OR BELOW GRADE.
 5. **SUB FLOOR FILLER AND LEVELLER:** POLYMER MODIFIED QUICK SETTING CEMENT BASED OR OTHER TYPE AS RECOMMENDED BY FLOORING MANUFACTURER FOR USE WITH THEIR PRODUCT.
 1. ACCEPTABLE PRODUCT: '5900 FLEX-FLO PLUS' BY FLEXTILE, OR APPROVED ALTERNATE.
 6. **CLEANER, SEALER AND FINISHER:** AS RECOMMENDED BY FLOORING MANUFACTURER'S PRINTED INSTRUCTIONS.

23. **PAINTING**
1. **QUALITY ASSURANCE**
 1. MPI (MASTER PAINTERS INSTITUTE) – ARCHITECTURAL PAINTING SPECIFICATIONS MANUAL MAINTENANCE REPAINTING MANUAL.
 2. **MATERIALS**
 1. **MANUFACTURER:**
 1. PAINTS SHALL BE MANUFACTURED BY THE FOLLOWING ACCEPTED MANUFACTURERS:
 1. BENJAMIN MOORE,
 2. CIL,
 3. BEHR
 4. OR APPROVED EQUAL.
 2. **COLOURS:**
 1. TO BE DETERMINED BY CONSULTANT DURING SHOP DRAWING PERIOD.
 3. DO NOT APPLY MATERIALS WHEN SURFACE AND AMBIENT TEMPERATURES ARE OUTSIDE THE TEMPERATURE RANGES REQUIRED BY THE PAINT PRODUCT MANUFACTURER.
 4. FINISHES AND NUMBER OF PAINTING COATS SPECIFIED BELOW ARE INTENDED TO COVER THE SURFACE COMPLETELY. IF THEY DO NOT, APPLY ADDITIONAL COATS UNTIL COMPLETE COVERAGE IS ACHIEVED. ALL SURFACES SHALL RECEIVE A SEMI-GLOSS FINISH UNLESS INDICATED OTHERWISE.
 5. **SCHEDULE - EXTERIOR SURFACES.**
 1. WOOD: SIDING, BEAM/RAFTERS, SOFFITS, POSTS.
 1. ALKYD GLOSS ENAMEL OVER ALKYD PRIMER SEALER, PREMIUM GRADE
 2. FERROUS METALS: DOOR FRAMES, RAILINGS
 1. HIGH GLOSS WATER-BASED EPOXY OVER PRIMER, PREMIUM GRADE. [RAILINGS]
 2. SEMI-GLOSS WATER-BASED EPOXY OVER PRIMER, PREMIUM GRADE. [FRAMES]
 3. GALVANIZED METAL: LINTELS
 1. LOW GLOSS ALKYD OVER PRIMER, PREMIUM GRADE.
 4. PRE-FINISHED ALUMINUM: FLASHINGS, GUTTERS, DOWNSPOUTS
 1. LOW GLOSS ALKYD OVER PRIMER, PREMIUM GRADE.
 5. EXPOSED STRUCTURAL STEEL:
 1. EPOXY FINISH, PREMIUM GRADE.
 6. **SCHEDULE - INTERIOR SURFACES.**
 1. WOOD:
 1. CLEAR LACQUER, SEMI-GLOSS FINISH, PREMIUM GRADE.
 2. PLASTER, GYPSUM BOARD: WALLS/BULKHEADS, CEILINGS
 1. ALKYD SEMI-GLOSS FINISH OVER LATEX SEALER, PREMIUM GRADE. [WALLS]
 2. ALKYD FLAT FINISH OVER LATEX SEALER, PREMIUM GRADE. [CEILINGS]
 3. CEMENTITIOUS SUBSTRATES: MASONRY UNITS.
 1. ALKYD EGGSHELL FINISH OVER LATEX SEALER, PREMIUM GRADE. [WALLS]
 2. SEMI-GLOSS WATER-BASED EPOXY OVER PRIMER, PREMIUM GRADE. [APPARATUS]
 4. FERROUS METALS: DOOR FRAMES, RAILINGS.
 1. ALKYD EGGSHELL FINISH OVER PRIMER, PREMIUM GRADE. [FRAMES]
 2. SEMI-GLOSS, TWO-COMPONENT EPOXY OVER PRIMER, PREMIUM GRADE. [RAILINGS]
 7. THE PAINTING CONTRACTOR SHALL INCLUDE IN THEIR COST, TO SUPPLY TO THE OWNER, AFTER COMPLETION OF HIS CONTRACT, 1 LITER (UNOPENED) OF EACH PAINT COLOUR OF HUE SPECIFIED IN THE COLOUR SCHEDULE. THE PAINT SHALL BE SUPPLIED IN PROPERLY MARKED CONTAINERS. THE CONTRACTOR SHALL INCLUDE FOR COSTING PURPOSES A MAXIMUM REQUIREMENT OF 5-4 LITER CONTAINERS.
 8. THE PAINTING CONTRACTOR SHALL, WHEN COMPLETE, PROVIDE A COLOUR SCHEDULE 'AS BUILT', IF COLOURS USED WERE DIFFERENT FROM THOSE SPECIFIED ON THE CONSULTANT'S COLOUR FINISH SCHEDULE. MANUFACTURER, COLOUR CODE NUMBER AND COLOUR NAME ARE TO BE LISTED.
 9. UTILIZE LOW ODOUR PRODUCTS WHENEVER POSSIBLE, SELECT PRODUCTS EXHIBITING LOW ODOUR CHARACTERISTICS. IF TWO PRODUCTS ARE OTHERWISE EQUIVALENT, SELECT THE PROJECT WITH THE LOWEST ODOUR.

- DIVISION 10 - SPECIALTIES**
24. **TOILET AND BATH ACCESSORIES**
 1. **INFORMATION**
 1. REFER TO FLOOR PLAN, ENLARGED PLANS, AND INTERIOR ELEVATIONS FOR LOCATION AND QUANTITY.
 2. **MATERIALS**
 1. CHK - CLOTHES HOOK / COAT HOOK
 1. PRODUCT: STAINLESS STEEL ROBE HOOK MATTE BLACK FINISH (MODEL 1138-BLK) BY FROST OR EQUIVALENT.
 2. GB1 - GRAB BAR
 1. PRODUCT: HORIZONTAL 610mm STAINLESS STEEL GRAB BAR.
 3. GB2 - GRAB BAR
 1. PRODUCT: L-SHAPED 750mm X 750mm STAINLESS STEEL GRAB BAR.
 4. GB3 - GRAB BAR
 1. PRODUCT: L-SHAPED 1000mm X 750mm STAINLESS STEEL GRAB BAR.
 5. GB4 - GRAB BAR
 1. PRODUCT: VERTICAL 1000mm STAINLESS STEEL GRAB BAR.
 6. MI-1 - MIRROR
 1. PRODUCT: SOLID FRAME MIRROR WITH MATTE BLACK FRAME (MODEL 945-24X36-BLK) BY FROST OR EQUIVALENT.
 7. MI-2 - MIRROR (TILT)
 1. PRODUCT: Fixed Tilt Solid Frame Mirror with Matte Black Frame (MODEL 945-24x36-FT-BLK) BY FROST OR EQUIVALENT.
 8. PTWR - PAPER TOWEL WASTE RECEPTACLE
 1. PRODUCT: STAINLESS STEEL COMBINATION DISPENSER/DISPOSAL (MODEL 410-C - SURFACE MOUNTED) BY FROST OR EQUIVALENT.
 9. SBN - SHOWER SEAT
 1. PRODUCT: FULL WALL MOUNTED SHOWER SEAT (MODEL 972) BY FROST OR EQUIVALENT.
 10. SCT - SHOWER CURTAIN
 1. PRODUCT: STAINLESS STEEL ADJUSTABLE LINEAR SHOWER ROD (WIDTH AS SHOWN IN PLAN), STAINLESS STEEL SHOWER CURTAIN HOOKS, AND WHITE PVC SHOWER CURTAIN.
 11. SD - SOAP DISPENSER
 1. PRODUCT: UNIVERSAL LOW PROFILE STYLE LIQUID SOAP DISPENSER (MODEL 711) BY FROST OR EQUIVALENT.
 12. SLF - SHELF
 1. PRODUCT: SURFACE MOUNTED SOAP DISH (MODEL 1136) BY FROST OR EQUIVALENT.
 13. SND - SANITARY NAPKIN DISPOSAL
 1. PRODUCT: SURFACE MOUNTED FEMININE PRODUCT DISPOSAL (MODEL 622) BY FROST OR EQUIVALENT.
 14. TB - TOWEL BAR
 1. PRODUCT: STAINLESS STEEL 24" TOWEL BAR MATTE BLACK (MODEL 1141-BLK) BY FROST OR EQUIVALENT.
 15. TPD - TOILET PAPER DISPENSER
 1. PRODUCT: MULTI-ROLL TOILET TISSUE DISPENSER, RESERVE ROLL (MODEL 165) BY FROST OR EQUIVALENT.
 25. **TACKBOARDS**
 1. **MATERIALS**
 1. **TRIM**
 1. EXTRUDED ALUMINUM: ALUMINUM ASSOCIATION ALLOY AA 6063-T5. MINIMUM 1.5 MM / 1/16" THICK.
 2. ALUMINUM FRAME AND TRIM: FABRICATED FROM NOT LESS THAN 1.5 MM / 0.062" THICK.
 3. FIELD-APPLIED TRIM: MANUFACTURER'S STANDARD, SCREW-ON TRIM.
 4. ALUMINUM FINISH: CLEAR ANODIZED FINISH.
 5. ACCEPTABLE PRODUCTS: 'SERIES 9800' BY ASI VISUAL DISPLAY PRODUCTS, OR EQUIVALENT BY MARTACK SPECIALTIES, OR APPROVED ALTERNATE.
 6. ANCHOR CLIPS, BRACKETS AND FASTENERS: CONCEALED TYPE RECOMMENDED BY MANUFACTURER.
 2. **FACINGS:**
 - A. NATURAL CORK TACKBOARDS: SINGLE LAYER NATURAL CORK FINE GRAIN SHEET, [6] MM THICK, NATURAL COLOUR.

1	February 20, 2026	Issued for Tender and Permit	G
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Port Glasgow Trailer Park Seasonal Office and Shower Facility
8650 Furnival Rd, Rodney, ON N0L 2C0
Client: Municipality of West Elgin
Project No. 25043

SPECIFICATIONS

Scale	1 : 5
Drawn By	HS
Reviewed By	DD/PG
Revision No.	1
Plot Date	2026-02-20

Drawing No. **A 10.03**

A. EXCAVATION, TRENCHING AND BACKFILL

PART 1 – GENERAL

1.1 References

- 1 CSA A23.1/A23.2–14 Concrete Materials and Methods of Concrete Construction.
- 2 OPSS Form 1010–13 Material Specification for Aggregates – Granular A, B, M and Select Subgrade Material.
- 3 Ontario Building Code – current edition.
- 4 The Ontario Health and Safety Act and all other regulations of the Ontario Ministry of Labour or local by-laws relating to the work of this Section.

1.2 Work Included

- 1 Supply all materials and provide all labour and equipment for the excavating, backfilling and rough grading required by the drawings and specifications.

1.3 Sub-Surface Conditions

- 1 FOUNDATIONS HAVE BEEN DESIGNED FOR A BEARING RESISTANCE (SLS) OF 100 kPa (3000 psf) AND A FACTORED BEARING RESISTANCE (ULS) OF 150 kPa (4000 psf) ON UNDISTURBED NATIVE SOIL U.N.O. BEARING RESISTANCE TO BE VERIFIED BY GEOTECHNICAL INVESTIGATION AFTER EXCAVATION AND REPORTED TO STRUCTURAL CONSULTANT. NO GEOTECHNICAL REPORT IS PRESENT AT THIS TIME.

1.4 Co-Ordination

- 1 Co-ordinate the work of this section with the work of all other sections in accordance with the General Conditions.
- 2 Particular care should be taken in co-ordinating the work of this Section with all other sitework and concrete work.

1.5 Unit Prices

- 1 Provide in the Bid Form, unit prices as listed in the Bid Form.
- 2 Unit rates to include all labour, materials and applicable taxes for completion of the work.

- 3 Additional payment in accordance with the agreed unit prices shall be made only for additional work authorized by the Consultant in writing.
- 4 Additional payment will not be made for accidental over-excavation by the Contractor.
- 5 Unit prices for quantities of hand or machine excavated material shall be based on in-place quantities. Volumetric method will be verified by the Soils Engineer prior to submission.

1.6 Drawings

- 1 Refer to the Drawings for existing and final grade elevations. These are to be verified by the Contractor.
- 2 Final contours and spot elevations are to be maintained as closely as possible with due allowance for "blending" of grades for drainage away from the buildings and roads.

1.7 Examination

- 1 Examine the site for the purpose of determining the conditions prevailing there, which may affect the work of this Section, including available access to the site.
- 2 Determine the nature and location of all existing services above and below ground that may require protection during the construction operation, or that may otherwise affect the work of this Section.

PART 2 – PRODUCTS

2.1 Materials

- 1 Class "A" Granular – in accordance with OPSS Specification Form 1010.
- 2 Class "B" Granular – imported granular material in accordance with OPSS Specification Form 1010.
- 3 Crushed Stone – Clean, screened crushed stone, well graded in size between 10mm and 25mm, with sufficient angular particles retained than round, to ensure proper compaction.
- 4 Granular material shall be free draining and not susceptible to frost action as determined by OPSS methods.
- 5 Submit representative samples of proposed materials to the Inspection Company for testing and approval for use on this project. Supply only those materials approved for use on this project by the Inspection Company.
- 6 Lean Concrete Fill – 10MPa with 75mm slump.

2.2 Source Quality Control

- 1 All materials shall be subject to test and inspection by a testing and inspection Company appointed by the Owner.
- 2 Cost of testing will be paid by the Owner.
- 3 Provide access to pits or quarries for personnel of the Inspection Company.
- 4 Provide representative samples of materials as required by the Inspection Company at no additional cost to the Owner.

PART 3 – EXECUTION

3.1 Grubbing and Clearing

- 1 Grub and clear the site of topsoil, sod, existing trees, shrubs, debris and obstructions, unless noted on the Drawings to be saved or removed by others.
- 2 Stockpile topsoil as directed on site grading drawings.
- 3 Remove and dispose of excess material away from the building site.

3.2 Shoring and Bracing

- 1 To be designed and certified by the Contractor as required.

3.3 Structural Excavation

- 1 General
 - 1 Notify the Consultant of any unusual soil conditions encountered during excavation so that corrective action may be taken, if necessary.
 - 2 Notify the Consultant when excavation operations are complete and prior to commencement of concrete work so that bearing surface may be inspected.
 - 3 Take care not to damage piers, walls or perimeter insulation. Make good any damage.
 - 4 Co-ordinate this work with the work of Divisions 15 and 16 so that services will not be damaged nor footings undercut.
 - 5 Remove and dispose of excavated existing fill materials away from the building site.
 - 6 Remove and dispose of unsuitable materials such as contaminated fill, native materials and asphalt paving away from the building site.
- 2 Slabs-On-Grade
 - 1 Carry the general excavation down below the underside of new floor slabs to remove all topsoil, contaminated fill, and other obviously unsuitable material, but not less than 6". Proof roll the excavated subgrade with a heavy roller. Sub-excavate any local soft spots or any deleterious materials encountered. Follow recommendations of the Soils Engineer.
- 3 Footings
 - 1 Found footings at the elevations shown on the plans on soil capable of safely supporting bearing pressures described on the Drawings (but not less than 1200mm below exterior grade).
 - 2 Where excavation for footings has been accidentally over-excavated, fill the over-excavated portion with clean concrete fill to the founding level shown on the plans at no additional cost to the Owner.
 - 3 Provide excavations for foundations of sufficient width for the construction and inspection of formwork and for the satisfactory execution of backfill and compaction operations. In general, provide not less than 450mm clear of all construction with side slopes to meet safety regulations.
 - 4 Trim the bottom of all footings true to line and grade and remove all loose, wet, frozen or unsatisfactory materials.
 - 5 Install footings at lower elevations prior to installing footings at higher elevations to ensure that the bearing capacity of the upper levels is not adversely affected.
 - 6 Protect adjacent footings as required.
 - 7 All excavations into native subsoil are to be carried out using a smooth-blade bucket to preclude disturbance of the subgrade by normal bucket teeth.

3.4 Pumping and Dewatering

- 1 Keep excavations and trenches free from accumulations of water from all sources, including seepage and rain, at all times by pumping or other satisfactory methods, during the construction of the building. Refer to soil report.
- 2 Conduct dewatering operations in such a manner as to avoid damage to work under construction or existing structures and so as not to weaken the strength of bearing soils or endanger the stability of banks or slopes.

3.5 Protection of Excavations, Services, & Structures

- 1 Protect all excavations against penetrating of frost and damage from moisture before, during and after placement of concrete.
- 2 Protect any existing construction and underground services from damage resulting from the excavation operations and from frost penetration. Provide temporary support for existing services as required.

3.6 Backfill & Compaction of Walls and Footings

- 1 After the construction of the footings, walls or piers and the approval of the work by the Consultant, backfill and compact the inside of such structures with Class B granular fill or approved site material and fill up to the underside of the 200mm clear granular layer.
- 2 In areas where concrete walls or pavements are brought within the excavation footprint for the foundation walls provide free draining granular "B" or approved site excavated sand materials up to the underside of the minimum depths of granular fill materials below pavement or concrete. Maintain the width of granular fill such that the fill can slope up toward the edge of paving at a 1 horizontal to 1 vertical slope.
- 3 Do not backfill prior to concrete attaining its 28 day strength.
- 4 Do not backfill walls supported at the top of the wall until the top of the wall is adequately braced by the suspended floor system and concrete is poured and cured.
- 5 Deposit and compact materials in uniform layers not exceeding 300mm loose measurement in depth. Backfill in equal stages on both sides of walls below grade maintaining a max. difference of 300mm from one side to the other.
- 6 Compact all granular materials inside the building to 98% of Standard Proctor Density. Compact granular materials outside the building to 98% of Standard Proctor Density. Compact beneath exterior pavements, slabs and roadways to 100%. Maintain optimum water content for proper compaction by the addition of water as required. Do not use frozen materials in the backfill.
- 7 Use approved vibratory plate tampers or vibratory rollers for compaction.

3.7 Sub-Floor Granular Fill

- 1 Prior to placing sub-floor granular fill, proof roll the exposed subgrade with a smooth heavy hand operated roller to compact an average zone. Sub-excavate as required.
- 2 Where necessary, provide compacted Class B material up to within 200mm of the underside of interior slab-on-grade. Compact to 98% of Standard Proctor Density.
- 3 Over the compacted Class "B" material, place and compact a 200mm (compact measurement) layer of Granular A. Compact to 98% of Standard Proctor Density.
- 4 Under exterior concrete slabs-on-grade and sidewalks, provide 150mm of compacted Class "A" material beneath the slab with not less than 150mm of compacted Class "B" material beneath the "A" material base. Compact to 98% of Standard Proctor Density.
- 5 Control moisture content of fill materials by addition of water, or by spreading and drying, to maintain optimum moisture control for proper compaction.

3.8 Protective Measures

- 1 Furnish all necessary barriers and other protection around open excavations. For other barriers and hoardings, consult General Works Section.
- 2 Maintain barricades in good condition at all times until they are no longer required.
- 3 Take care not to damage any underfloor mechanical or electrical systems.

3.9 Rough Grading

- 1 Rough grade all areas around the building in accordance with the site plan required and existing grades, and as directed by the Consultant. Co-ordinate this work with Division 2.
- 2 Slope ground so that water will drain at all times away from the building.
- 3 Rough grade areas shall be clearly marked free of course materials and left ready for final grading.
- 4 Areas to receive sod or seeding shall be rough graded to an elevation 150mm below finished grade.

3.10 Field Quality Control

- 1 All materials and workmanship shall be subject to testing and inspection by an independent Testing Laboratory engaged by the Owner.
- 2 A representative (inspector) of the testing and inspection company will make random site inspections.
- 3 Sieve analysis, Standard Proctor Density tests for fill materials, and field density tests of the compacted fill materials will be made by this inspector to ensure that the specified standard of work is achieved.
- 4 All excavation, placing and compaction procedures will be subject to the approval of the Soils Engineer and the Structural Engineer.
- 5 Materials which fail to achieve the specified standard of compaction shall be recompacted or replaced as directed by the Soils Engineer and additional tests made. The cost of such additional testing and the cost of remedial action shall be at no additional cost to the Owner.
- 6 The compaction tests are performed on behalf of the Owner to satisfy the Consultant that the requirements of the Contract Documents have been met. They are not intended as a substitute for the contractor's quality control program.
- 7 The footing subgrade will be inspected by the Inspection Company immediately following final preparation of the excavation by the Contractor. The Inspection Company may direct that the depth of excavation be increased to reach competent bearing stratum if existing soil conditions at the specified elevation are not satisfactory.

3.11 Clean-Up

- 1 At the completion of the work of this Section, remove any excess materials, debris and equipment from the site.

END OF SECTION

B. CAST-IN PLACE CONCRETE

PART 1 – GENERAL

1.1 References

- 1 Ontario Building Code.
- 2 C.S.A. A23.1–14 Concrete Materials and Methods of Concrete Construction.
- 3 C.S.A. A23.2–14 Test Methods and Standard Practices for Concrete.
- 4 C.S.A. A23.3–14 Design of Concrete Structures.
- 5 CSA G30.18–21 (R2014) Carbon Steel Bars for Concrete Reinforcement.
- 6 CSA A3000–18 Cementitious Materials Compendium.
- 7 CSA S269.1–18 Formwork and Formwork Accessories.
- 8 ASTM A775/A775M–16 Standard Specification for Epoxy Coated Reinforcing Steel Bars.
- 9 ASTM C309–11 Standard for Liquid Membrane Forming Compounds for Curing Concrete.
- 10 Standard 302.1R–15, "Guide to Concrete Floor and Slab Construction".
- 11 Standard 301–16, "Specification for Structural Concrete".
- 12 Reinforcing Steel Institute of Canada (RSIC), "Reinforcing Steel Manual of Standard Practice"
- 13 Construction Safety Act or any other regulations of the Ontario Ministry of Labour relating to the work of this section.

1.2 Work Included

- 1 Provide all plant, labour, equipment and materials to complete the cast-in-place concrete work. The work includes, but is not limited to:
 - reinforced concrete footings, walls, beams, and slabs
 - patching sleeves, pockets
 - concrete toppings
 - grouting of column and beam bearing plates

1.3 Work Installed Under This Section, Supplied By Others

- 1 Setting of anchors and sleeves for mechanical and electrical trades – Division 15 and 16.
- 2 Building in of iron and steel items – Divisions 5, 15, and 16.
- 3 Setting of anchors and other hardware to be cast into the concrete – Division 5, 15 and 16.

1.4 Co-Ordination & Co-Operation

- 1 Co-ordinate the work of this Section with the work of other sections and advise other trades when materials to be built into the forms will be required.
- 2 Co-operate with other sections to ensure an uninterrupted sequence of construction.
- 3 Install any items furnished by others, miscellaneous iron work, anchors, pipe sleeves, hardware, etc., that are to be built into the concrete work.
- 4 Form all holes and openings shown or required to accommodate the work of other trades.
- 5 Make good all openings left in construction around pipes, openings for struts, anchorages, etc.

1.5 Design Criteria

- 1 Design all concrete mixes for the compressive strength and slump requirements as specified in "Proportioning" of this section. Allow for the appropriate coefficient of variation for each strength class for the batch plant supplying the concrete.
- 2 Submit mix designs for each class of concrete for review by the Consultant at least two weeks prior to the commencement of concreting.

1.6 Design Criteria – Formwork

- 1 Formwork, falsework and shoring is to be designed, erected, braced and maintained so that it will safely support:
 - 1 The liquid weight of the concrete.
 - 2 All applied construction loads, such as equipment, personnel, runways, and wind loads to which the system may be subjected.
 - 3 All supported loads including reshored slabs.
- 2 Follow the provisions of the Construction Safety Act as amended to-date and the recommendations of the current A.C.I. Standard 347.
- 3 Refer to equipment drawings for critical dimensions. Detail forms in these areas to provide the specified requirements.
- 4 Tolerances within CSA A23.1/A23.2 except that tolerances for equipment anchors, inserts, etc. to equipment supplier's requirements.

1.7 Shop Drawings

- 1 Provide reinforcing steel shop drawings.

PART 2 – PRODUCTS

2.1 Materials

- 1 Cement – in accordance with CSA A3000.
- 2 Aggregates:
 - 1 Fine and course aggregate materials and grading in accordance with Section 5 of CSA A23.1/A23.2. Maximum size of course aggregate to suit spacing of reinforcing bars in accordance with CSA A23.1/A23.2.
 - 2 Pit run gravel will is not be acceptable.
 - 3 Use pea gravel (6mm to 10mm) where concentration of reinforcement requires the use of a smaller diameter aggregate and in toppings where the topping thickness is reduced below 50mm minimum thickness. Also use pea gravel in concrete shear walls cast around structural steel HSS braces.
- 3 Admixtures:
 - 1 Use only those chemical admixtures and air entraining agents currently approved for use by the Ontario M.T.C. in accordance with O.P.S.S. Form 1303, Material Specifications for Air Entraining Agents and Chemical Admixtures.
 - 2 Chemical admixtures shall be type 1, Water Reducing Admixtures by Grace.
 - 3 Admixtures to be compatible with the air entraining agent.
 - 4 Superplasticizer – WRDA by Grace, Sterflon by Stenson. Use superplasticizer in concrete shear walls cast around structural steel HSS braces.
 - 5 Reinforcing Steel (plain) – new deformed bars in accordance with CSA G30.14 with a guaranteed yield stress of 400 Mpa or 500 Mpa (as noted on plans).
 - 6 Reinforcing Steel (epoxy coated) – as for item 4, with epoxy coating to ASTM A775/A775M. All shop or field cut are to be immediately coated in accordance with ASTM A775/A775M and MTO Form 1443.
 - 7 Welded Wire Fabric – in accordance with CSA G30.5.
 - 8 Reinforcing Steel Supports – in accordance with R.S.I.O. Manual of Standard Practice.
 - 9 All the wires, chairs and other bar supports to be plastic or plastic coated construction compatible with use. All chairs are to be plastic construction.
 - 9 Spray-Applied Curing and Sealing Compounds – to conform with ASTM C-309, to be Sealtight CS309 by Meadows or Floorseal W.B. by Stenson Construction Products or equal.
 - 10 Evaporation Reducer – Master Builders "Confilm".
 - 11 Lumber, Plywood and other formwork materials which will be exposed to view in the completed structure to be new, Douglas Fir Plywood, with a high density phenolic resin overlay on concrete side of form.
 - 12 Form Oil – colourless, non-staining, mineral oil, free of kerosene.
 - 13 Form Ties:
 - 1 For general wall areas, removable or snap-off metal ties after their removal of forms, no metal is within one inch of the finished surface.
 - 2 Heavy duty ties for one sided form construction.
 - 3 On exposed sides of walls, metal ties with plastic cone formers to suit architectural details complete with suitable plugs.
 - 14 Grout: non-shrink, non-ferrous, M-Bed Standard by Stenson Construction Products or V-3 by W.R. Meadows
 - 15 Vapour Barrier: 10 mil vapour barrier.
 - 16 Asphalt Impregnate Fibreboard: 12mm thick fibreboard, uniformly saturated with a bituminous binder.
 - 17 Control Joint Filler: at sawcut control joints in all exposed concrete floors and below rubber sheet flooring provide "Loadflex" by Stenson Construction Products, "Bonflex" by W.R. Meadows or approved equal.
 - 18 Latex Bonding Agent: for bonding toppings to cast-in-place concrete items – Albitol Concentrate by Stenson Construction Products, Sika Latex by Sika, Introlak by W.R. Meadows, or approved equal.
 - 19 Accelerator or retarding chemical admixtures shall only be used with the prior approval of the Consultant or at the Consultant's written request. Do not use calcium chloride or products containing calcium chloride.
 - 20 Circular Column Forms: All circular forms to have plastic liner on inner ply to prevent transfer of spiral markings to concrete.
 - 21 Non-Metallic Hardener: for all locations designated in room schedule to have an exposed concrete floor. – Sealtight Type "R" Premixed Floor Hardener by W.R. Meadows, Sika Chopdur by Sika, Diamog 7 by Stenson Construction Products, or Mastertop 105 by Masterbuilders Technologies.

2.2 Proportioning of Concrete – General

- 1 Job-mixed concrete will not be allowed on this project.
- 2 Provide mixed-in-transit, ready-mixed concrete in accordance with CSA A23.1/A23.2, obtained from a supplier approved by the Consultant for use on this project.
- 3 Mix all concrete with materials so graded and proportioned to produce a plastic mass of such consistency that it will flow slowly under its own weight and which can be readily worked into corners of forms and under and around reinforcing and concrete embedded structural steel without forming voids or honeycombed surfaces.
- 4 Furnish to the Sub-Contractor, a "delivery ticket" for each batch of concrete delivered to the site, which shall be kept on record for the inspection of the Consultant. Each ticket shall show the following:
 - Date and truck number
 - Sub-Contractor's name
 - Job designation
 - Specified concrete strength, slump, air content and admixture
 - Batch volume
 - Time of batching
- 5 For concrete mixes requiring entrained air, do not pre-mix the air entraining agent with a chemical admixture solution. Where both an air entraining agent and chemical admixture are used, dispense the two materials separately.
- 6 Accelerating or retarding chemical admixtures shall only be used with the prior approval of the Consultant or at the Consultant's written request. Do not use calcium chloride or products containing calcium chloride.
- 7 Chemical admixtures and air entraining agents shall be supplied by the same manufacturer and be compatible. Use in strict accordance with the manufacturer's directions.
- 8 The compressive strength of all concrete is to be determined from test cylinders made in accordance with CSA A23.1/A23.2.
- 9 Minimum truck load 1 = 1/2 c. metric.
- 10 Proportion the materials in accordance with the mix designs supplied under Article 1.8 of this Section to provide the following specified design strengths, slumps and air contents.

CONCRETE MATERIAL PROPERTIES				
LOCATION	SPECIFIED MIN. 28 DAY COMPRESSIVE STRENGTH	SLUMP	AIR CONTENT	EXPOSURE CLASS
PAD AND STRIP FOOTING	25 MPa	75±25	NIL	F-2
FOUNDATION WALLS & COLUMNS	25 MPa	75±25	5%±1%	F-2
INTERIOR SLAB ON GRADE	25 MPa	75 MAX.	NIL	C-2
EXTERIOR SLAB ON GRADE	32 MPa	75±25	6%±1%	C-2
LEAN FILL	15 MPa	75 MAX.	NIL	

2.3 Plant Quality Control

- 1 All materials, batching and mixing procedures are subject to test or inspection by the Consultant or his designated representatives.
- 2 Provide samples of materials as may be required at no additional cost to the Owner.
- 3 Provide access to pits, batch plants, etc., as may be required by the Consultant or his designated representatives.
- 4 The cost of testing will be paid by the Owner.

PART 3 – EXECUTION

3.1 Examination

- 1 Examine and obtain all necessary measurements of previously executed and existing work which may affect the work of this section prior to commencing operations.
- 2 Report any discovered discrepancies to the Consultant so that instructions can be given for the necessary remedial action.

3.2 Erection of Forms

- 1 Construct all forms to have sufficient strength, stability and rigidity to prevent bulging or deflection under the liquid weight of concrete and to support in addition, all construction loads to which they may be subjected including equipment, runways and wind forces in accordance with A.C.I. Standard 347.
- 2 Erect forms to the lines, dimensions and elevations shown on the drawings such that the completed work is within the tolerance limits for reinforced concrete buildings.
- 3 Forms in accordance with CSA A23.1/A23.2.
- 4 For typical wall surfaces, arrange form ties such that after removal of the forms, no metal is within 1" of the finished surface.
- 5 Clean forms of all debris prior to concreting. Provide temporary openings at the base of walls, column forms and at other locations where necessary to facilitate cleaning and inspection. Place openings so that "wash water" will have a clean run to the outside of the forms.
- 6 Provide 19mmx 19mm chamfers on all exposed corners of concrete, exposed to view in the finished structure.
- 7 Coat forms with a non-staining mineral oil prior to the placing of reinforcing steel in accordance with CSA A23.1/A23.2. Where concrete surfaces are to receive a final coat of paint, plaster, etc., omit the form oil and wet down the forms just prior to concreting.
- 8 Refer to architectural drawings for all tie and rebar locations in exposed concrete walls and ceilings at openings vestibule and cell areas.
- 9 Take special care when lowering plastic lined circular forms over reinforcing steel to avoid scratching plastic liner g.

3.3 Reinforcing Steel

- 1 Placing, spacing, splicing and protection of reinforcement in accordance with CSA A23.1/A23.2.
- 2 Maintain all clear required for reinforcement as shown on the drawings. Where not specifically shown, refer to CSA A23.1/A23.2.
- 3 Supply and install 89mmx89mmx64mm brick chairs for the support of reinforcing in slab-on-grade. In areas where poly vapour barrier is used ensure brick chairs are of a type and are placed in a manner which will not puncture the poly vapour barrier. Space chairs 1200mm o/c each way. Lap welded wire fabric at least one mesh plus 50mm at all splices.
- 4 Ensure that reinforcing grids at the bottom of large spread footings are supported such that the weight of the reinforcing steel does not cause the reinforcing grid to sink into the soil below. The use of a "skim slab" may be required to ensure that this condition is avoided.

3.4 Concrete Placing

- 1 Do not start concrete placing until the Consultant has reviewed and approved all construction details and drawings.
- 2 All conveying, depositing, compaction and vibration is to be done in accordance with CSA A23.1/A23.2.
- 3 Maximum elapse of time between charging and placing is not to exceed 1½ hours. Reject concrete which exceeds this limit. In hot weather, this time period may have to be reduced as directed by the Consultant.
- 4 Place concrete carefully around all accessories, such as pipes, sleeves, and conduits.
- 5 Where concrete is to be placed in restricted locations, take special precautions to ensure close contact between the concrete and steel. Take care to exclude air pockets and honeycombed areas. Use of a superplasticizer may be required for proper placement.
- 6 When buggies are used for placing concrete in slabs on soil, they are to be supported on runways and not directly on the reinforcing steel.
- 7 Maintain a sufficient number of internal mechanical vibrators on site to properly compact concrete within 15 minutes of placing, but not less than two vibrators for any pour.
- 8 Mechanical vibrators which are applied to the outside of the forms are not permitted without prior approval of the Consultant.
- 9 Thoroughly compact all concrete during placing to ensure that the finished concrete is free of voids or other defects.
- 10 Ensure that reinforcement, hardware, and inserts are not disturbed during concrete placement.
- 11 Strike off-floor surfaces at the level shown on the drawings by means of previously set, continuous pipe screeding, set on adequate supports.
- 12 Notify the Consultant at least 24 hours in advance of any scheduled pour.

3.5 Curing and Protection

- 1 Protection and curing of concrete for a minimum of 7 days in accordance with Section 21 of CSA A23.1/A23.2.
- 2 Maintain all equipment and materials for the protection and curing of concrete on site, ready to use before concrete placing is started.
- 3 Completely cover floor, roof, and topping slabs with 4 mil polyethylene sheeting, properly lapped at side and edge laps and weighted down immediately after finishing.
- 4 A spraying-on membrane curing compound may be used in lieu of polyethylene sheeting for concrete, except as follows:
 - 1 Floor areas which are to have topping or other surface treatments are not to receive any spray-applied compounds employed, but must be polyethylene cured.
- 5 Freshly finished floors are not to be used for seven (7) days after completion and only light use is permitted for an additional 7 days.

3.6 Cold Weather Concrete

- 1 All concreting operations during cold weather in accordance with Section 21 of CSA A23.1/A23.2. Carefully protect all corners and edges.
- 2 Exercise particular care to ensure that previously placed concrete and reinforcing steel are adequately heated to prevent freezing of new concrete placed directly against it.
- 3 Exercise care to avoid rapid temperature changes (thermal shock) when removing an area from temporary heating conditions.
- 4 Remove and replace all concrete damaged by frost or freezing at the direction of the Consultant at no cost to the Owner.
- 5 Accelerating chemical admixtures shall not be used without the written approval of the Consultant.

3.7 Hot Weather Concrete

- 1 All concreting operations during hot weather in accordance with Section 21 of CSA A23.1/A23.2.
- 2 Exercise particular care to prevent surface crazing of floor slabs due to combined high temperatures and drying winds.
- 3 The use of a water reducing-retarding chemical admixture in the concrete mix may be required at the Consultant's discretion.

3.8 Finishing of Horizontal Surfaces

- 1 Floors:
 - 1 Refer to A.C.I. Standard 302 for recommended procedure for concrete floor and slab construction and finishing.
- 2 Refer to A.C.I. Standard 301, Specification for Structural Concrete. Maintain surface tolerances for all slabs in accordance with Section 11.9 of that Standard for Class A tolerance.
- 3 Concrete floors shall be steel floated with a disc type power floating machine, having a 600 disc, and weighing at least 300 pounds. Continue the floating operation until sufficient moisture is brought to the surface to fill all voids. After floating when the floor has hardened sufficiently so that excess fines will not be brought to the surface, trowel with a steel trowel to a surface free of all pinholes and trowel marks. See A.C.I. Standard 301, Section 11.7.
- 4 Following finishing operations for all floors noted in the room finish schedule to remain as, exposed concrete, fill sawcut control joints with joint filler and seal with unthinned cure and seal compound, applied in strict conformance with manufacturers instructions.
- 5 In addition to areas mentioned in Item 3.8.4 above provide joint filler in all control joints below areas to be covered with rubber flooring.
- 6 Just prior to turn-over, clean plain concrete floor areas and reseed with one coat of compatible sealer applied in strict conformance with manufacturers instructions.
- 7 All areas in noted flooring schedule to be left as exposed concrete floor including surfaces are to have a non-metallic surface hardener applied.
 - 1 Apply hardener in two equal shares in strict accordance to manufacturers instructions to achieve a surface hardness for a moderate duty floor.

3.9 Finishing of Vertical Surfaces

- 1 In areas where concrete walls will be exposed, take extra care to avoid 'bugholes' and honeycombing. When placing concrete, re-vibrate critical areas to ensure complete consolidation of concrete near form surfaces.
- 2 For reved and tie locations, see architectural drawings.

3.10 Concrete Toppings

- 1 Thoroughly clean top of precast slabs to receive topping of all material likely to affect a good bond between precast unit and the topping.
- 2 Clean the existing surface using stiff brooms and a small jet from a high pressure hose. Remove all dirt from crevices and depressions.
- 3 If specified for application of bonding agent the surface shall be wet down at least four hours before placing the topping and shall be kept saturated until the topping is placed, but in no case shall there be any free water on the surface when the topping is placed.
- 4 Prior to placing the topping, apply latex bonding agent to surface of precast or concrete slab in strict accordance to manufacturers instructions.
- 5 The topping shall be placed finished and cured, in accordance with the appropriate requirements, including slopes to drains where applicable.
- 6 Employ toppings with peastone aggregate at all locations where topping thickness is less than 50mm.
- 7 Refer to CURING & PROTECTION portion of this specification for curing of topping slabs.

3.11 Treatment and Repairs for Formed Surfaces

- 1 After removal of forms, the surfaces of concrete are to be given one or more of the finishes specified hereafter. Methods used are to be in accordance with Section 24 of CSA A23.1/A23.2.
- 2 When, in the opinion of the Consultant, satisfactory repairs cannot be made, then the defective work is to be cut out and replaced as directed by the Consultant.
- 3 Treatment of honeycombed areas is to be carried out as directed by the Consultant. Do not treat such areas prior to receiving instructions from the Consultant.
- 4 Patch tie holes and other defects (unless otherwise directed by the Consultant as noted in paragraphs 2 and 3 above). Remove fins exceeding 5mm in height.

3.12 Construction Joints

- 1 Construction joints in walls and floors shall be placed in locations approved by the Architect.
- 2 Construction joints shall be poured to the adjoining wall as detailed on the drawings.
- 3 Before placing adjoining concrete at construction joints, clean the existing surface of dirt, laitance and loose aggregate.
- 4 Where additional resistance to horizontal shear is required, mortises or keys shall be formed in the concrete. The pouring sequence and the location of construction joints shall be as shown on the plans, noted herein, or as approved by the Consultant.
- 5 Install waterstops in all construction joints employing wire ties to ensure waterstop stays in position when pouring adjoining concrete.

3.13 Control Joints

- 1 Provide control joints where shown and noted on the drawings in foundation and retaining walls and in floor slabs. Control joints in floor slabs shall be sawcut to the depth shown as soon after placing the concrete as the surface will allow without chipping but not later than 24 hours after placing.

3.14 Grouting of Column Base and Beam Bearing Plates

- 1 Rough finish the top of walls, piers, or slabs which receive steel columns or steel beams.
- 2 After the erection and alignment of columns and beams, fill the space beneath the plates with a non-shrink grout. Take particular care to ensure that air pockets or voids are eliminated.
- 3 Mix and place grout in strict accordance with the manufacturer's directions.

3.15 Field Quality Control

- 1 All materials and workmanship shall be subject to test and inspection by a testing and inspection company appointed by the General Contractor.
- 2 Cost of testing and inspection will be paid by the Owner, except as noted hereafter.
- 3 Provide unimpeded access to the project for purposes of inspection and testing. Provide storage space and the necessary protection for test specimens against damage or loss while on site.
- 4 Provide representative samples of the materials as requested by the testing and inspection company at no cost to the Owner.
- 5 All field tests for concrete quality and all criteria relating to failure to meet test requirements in accordance with CSA A23.1/A23.2, Section 17, except as follows:
 - 1 Each test shall consist of three standard cylinders, accompanied by a slump test and measurement of air content (where applicable). Unless otherwise directed by the Consultant, one cylinder shall be tested at 7 days and the remaining two at 28 days.
 - 2 The inspection company shall take concrete tests for:
 - i) not less than one test for each class of concrete placed each day, and
 - ii) not less than one test for each 100 cubic meters or portion thereof placed in any day.

C. STRUCTURAL STEEL

PART 1 – GENERAL

1.1 References

- 1 CAN/CSA–S16.1–24 (R2000), Limit States Design of Steel Structures.
- 2 CSA W59–24, Welded Steel Construction (Metal Arc Welding).
- 3 CSA W55.3–2008 (R2018), Resistance Welding Qualification Code for Fabricators of Structural Members Used in Buildings.
- 4 CSA W47.1–09, Certification of Companies for Fusion Welding of Steel Structures.
- 5 CSA S136–16, Cold Formed Steel Structural Members.
- 6 CAN/CSA–G164–18, Hot Dip Galvanizing of Irregularly Shaped Articles.
- 7 CSA G40.20/G40.21–13(R2023) General Requirements for Rolled and Welded Structural Quality Steels/Structural Quality Steels
- 8 ASTM A325–00 Standard Specification for Structural Bolts, Steel, Heat Treated, 120/150 ksi Minimum Tensile Strength.
- 9 OCS/CPMA 2–75 QUICK Drying Primer for Structural Steel.
- 10 Ontario Building Code.

1.2 Work Included

- 1 Refer to the Contract Drawings for detailed requirements.
- 2 Supply all materials, provide all labour and equipment to erect the structural steel as shown or required by the drawings or specifications. The principal items include, but are not limited to:
 - structural steel beams, columns, braces, angles
 - plates, stiffeners, strap anchors
 - bent plates, bearing plates, angles
 - shear studs

1.3 Shop Drawings

- 1 Examine all drawings forming a part of this Contract and conform to the requirements of all such drawings.
- 2 The Consultant reserves the right to relocate members prior to and during the approval of erection diagrams for the purpose of clearing ducts, piping, walls, etc., to finalize the location of mechanical roof top units, etc., and to finalize coordination between Owner and Consultants, at no additional cost to the Owner. Any cost involved in revisions to erection diagrams or shop drawings as a result of these changes shall be borne by this Sub–Contractor.
- 3 Any fabrication executed before review of shop drawings shall be at this Sub–Contractor’s risk. Fabrication shall be assumed to begin when material is cut to length, whether this be by the fabricator or at the mill to the fabricator’s orders.
- 4 The Consultant’s review of Shop Drawings will not relieve the Sub–Contractor from his responsibility for ensuring that his work is complete, accurate, and in accordance with the drawings and specifications.
- 5 Shop drawings are to be submitted as follows:
Erection drawings: 2 prints and 1 sepia of each or submit drawings in AutoCAD format via e–mail.
Shop fabrication drawings: 1 print and 1 sepia of each or submit drawings in AutoCAD format via e–mail.
- 6 Provide two complete sets of sepia of the erection diagrams to the Consultant showing “as–built” conditions, including final sizes and locations of openings and final locations of mechanical units.
- 7 All loads, forces and reactions shown on the drawings or noted in the specifications are service loads (unfactored), unless noted otherwise.
- 8 Design and detailing of connections, etc. in accordance with CAN/CSA–S16.1. Service loads must be factored for Limit States Design.

1.4 Design Criteria

- 1 Certificates
 - 1 Provide a certificate signed and sealed by the registered professional engineer responsible for the detailed structural steel connections, stating that the connections have been designed, detailed, and fabricated in accordance with the applicable standards for the loads shown.
 - 2 Certificates must bear the original seal and signature of the engineer and be dated. Photocopies are not acceptable.
 - 3 Provide a certificate signed and sealed by licenced professional engineer responsible for design of OWSJ stating that joists have been designed and fabricated in accordance with CSA 516.1 and all applicable loadings.
- 2 All loads, forces and reactions shown on the drawings or noted in the specifications are service loads (unfactored), unless noted otherwise.
- 3 Typical connection details are shown on the drawings for guidance only. Design and submit for approval suitable bolted or welded connections. In general, bolted connections are to be designed as “bearing” connections with threads included in the shear plane.
- 4 The shear capacity of all beam and girder connections shall be not less than the shear capacity of the section acting as a simple beam loaded uniformly to its moment capacity over the same span nor less than that shown on the drawings, whichever is greater.
- 5 Typical bearing stiffeners for beams continuous over columns are shown on the drawings. Design suitable stiffeners at other locations of concentrated loads, as required to suit the connection design.
- 6 Refer to Mechanical drawings for number, approximate location, and weight of all suspended mechanical units and piping. Final locations of these units will be determined during the shop drawing stage.
- 7 Design joists and bridging members in accordance with applicable reference standards for the uniform loading shown on the drawings with due allowance for local bending moments and for any additional concentrated and/or line loads for support of mechanical units and/or masonry walls. Design OWSJ such that total deflection does not exceed 1/240th of the design span and the live load deflection does not exceed 1/360th of the design span.

1.5 Co–ordination

- 1 Co–ordinate the work of this Section with the Construction Manager’s scheduling in accordance with the General Conditions.
- 2 Co–ordinate the work of this Section with the work of all affected Divisions to provide proper clearances and assembly of the work.
- 3 Co–ordinate the work of this Section with the work of the precast concrete/telz floor slab contractor, to provide a continuous erection procedure.

1.6 Substitutions

- 1 Substitution of available beam and column sections for those shown on the drawings may be permitted, provided that the substituted members have equivalent or greater capacity and stiffness than those shown.
- 2 Proposed substitutions are subject to prior approval of the Consultant and must not interfere with Architectural clearances.

1.7 Quality Assurance

- 1 Fabrication and erection of all components to be by a OWB Division 1 or Division 2.1 certified company only. Welders must have current OWB certification for the applicable position.

1.8 Special Conditions

- 1 Structural steel members exposed to view within or outside the building require special attention to welds, fit up, connections and finish.

PART 2 – PRODUCTS

2.1 Materials

- 1 Rolled Steel Sections, Shapes and Rods
 - 1 Currently produced in Canada – in accordance with C.S.A. Standard G.40.21M–350W.
 - 2 Hollow Structural Sections – CSA G40.20/G40.21, Grade 350W Class C.
 - 3 High Strength Bolts & Washers – in accordance with ASTM A325.
 - 4 Shop Primer Paint – in accordance with GSB–140.
 - 5 Anchor bolts – in accordance with CSA G40.20/G40.21, Grade 300W
 - 6 Shear Studs – Nelson headed anchors with fluxed ends (or approved equal).
 - 7 Galvanizing – zinc coating by hot dipped process after fabrication, shot blasting and pickling to provide a uniform coating of not less than 2.0 ounces per sq. ft.
 - 8 Field Touch–up Paint
 - 1 As for shop paint for previously shop primed members
 - 2 Galvalloy zinc rich coating by W.R. Meadows for previously galvanized members.

2.2 Fabrication

- 1 Fabrication of all structural steel in accordance with CAN/CSA–S16.1
- 2 Carefully make and fit all details and connections to ensure that the finished work presents a neat and workmanlike appearance.
- 3 All shop and field connections are to be welded.
- 4 Splicing will not be allowed without the approval of the Consultant at the shop drawing review stage. Splicing will then only be allowed if the length of the fabricated member required is longer than that normally produced at the mill.
- 5 All members shall be true to length so that assembly may be done without fillers.
- 6 Provide holes for bolted connections for connecting the work of other trades where such holes can be determined prior to fabrication and only at the request of the Engineer or the trade concerned. Such holes shall only be provided where they will not impair the satisfactory performance of the structure.
- 7 All bolted connections for vertical bracing members and beams in vertical bracing lines are to slip critical as defined in CAN/CSA–S16.1–94 (R2000).
- 8 Provide welded strap or reinforcing bar anchors for beams for anchorage to concrete or masonry as shown on the typical details.
- 9 Provide holes in webs or welded bar assemblies for masonry anchors as per typical details.
- 10 Supply suitable anchor bolts for base plates and bearing plates for installation under Division 3.
- 11 Bearing and base plate sizes shown on the drawings are finished sizes. Allow additional thickness as required for milling.
- 12 Provide restraining clip angles at the tops of all masonry walls for lateral support of such walls.
- 13 Thoroughly clean all steel of all loose mill scale, and rust.
- 14 Apply one coat of shop primer on dry clean surfaces for all members except as follows:
 - 1 Do not paint steel in direct contact with concrete, where welded connections are to be made.
 - 2 Do not paint any galvanized steel items.
 - 3 As required for slip critical connections.
 - 4 Steel to be spray fireproofed.
- 15 Supply suitable anchor bolts for base plates and bearing plates for installation under Division 3.
- 16 Take care to minimize distortion due to welding and galvanizing procedures. Straighten members as required to maintain the fabrication tolerances of CAN/CSA–S16.1.
- 17 Galvanizing to CAN/CSA–G164, including preparation. Blast clean to commercial quality after fabrication, prior to galvanizing. Provide seal welds in addition to structural welds as required by good practice.
- 18 Provide welded “sea” plates (minimum 5mm) as required to close all HSS sections. If this is not possible in all locations, provide drain holes.
- 19 Supply suitable loose lintels as shown on the Loose Lintel Schedule for all openings in masonry walls for installation under Division 4. Lintels included are those for all openings shown on Architectural, Mechanical, and Electrical drawings.
- 20 Shear studs shall be automatically welded with suitable Nelson Stud Welding equipment in the shop on spacings indicated on the drawings. All welds shall be made in accordance with recommendations of the Nelson Stud Welding Company, Lorain, Ohio

2.3 Quality Control

- 1 All materials and fabrication shall be subject to test by a testing and inspection company appointed by the Contractor
- 2 Provide access to the work in the shop for the personnel of the inspection company.
- 3 Provide such samples of materials and mill test reports as may be required by the inspection company at no cost to the Owner.
- 4 Base plates for columns subject to axial tension loads as indicated on the drawings are to be tested by appropriate radiographic, ultrasonic, or magnetic particle testing for the presence of inclusions that could facilitate lamellar tearing. Any plates which contain inclusions will not be used. Submit test records to the Consultant for review.
- 5 The cost of testing will be paid for by the Owner.

PART 3 – EXECUTION

3.1 Examination

- 1 Examine and obtain all necessary measurements of previously executed and existing work which may affect the work of this Section.
- 2 Make a line and level survey of the foundations and anchor bolts. Report any discovered discrepancies to the Consultant so that instructions can be given for the necessary remedial action.

3.2 Erection

- 1 Accurately set all steel to the lines and elevations shown on the drawings.
 - 1 Temporarily connect all members with sufficient weld to ensure the safety of the structure until permanent connections are made.
- 2 Assemble all members without twists or open joints. Take particular care that all parts are well pinned up and drawn together before bolting or welding is started.
- 3 Assume full responsibility for the correct plumbing and alignment and for setting of all members.
- 4 If members do not fit properly in the field, repairs must be made by methods to the satisfaction of the Consultant. In no case shall cutting be done with a torch, except where specific approval as to size and location of same is granted by the Consultant. Unfair holes shall be enlarged with a twist drill and larger bolts used.
- 5 Erection tolerances in accordance with Section 28 of CAN/CSA–S16.1.
- 6 Set column base plates and beam bearing plates on steel shims or other suitable supports. Grouting under these plates is specified under, Section 03300–Cast–in–Place Concrete.
- 7 Erect the steel frame true and plumb. Place temporary bracing where necessary to take care of all loads to which the incomplete building may be subjected, such as wind, equipment, or construction procedures. Leave temporary bracing in place as long as necessary for the safety of the structure.
- 8 Install restraining clip angles to provide lateral support at the top of all new masonry walls. Carefully co–ordinate with the Contractor and the Masonry Sub–contractor.
- 9 Pretension all bolts in slip critical connections as outlined in CAN/CSA–S16.1–94 (R2000).

3.3 Field Painting

- 1 Field point, using the appropriate finish paint. All scars, blemishes, or those areas damaged by erection procedures.
- 2 For members which are hot–dipped galvanized, touch up all scars, scratches, etc. with a compatible zinc rich paint. ovid

3.4 Field Quality Control

- 1 All materials and fabrication shall be subject to test by a testing and inspection company appointed by the Contractor.
- 1 Provide access to the work at the site for the personnel of the inspection company.
- 2 A survey is to be conducted after the erection of each lift of columns to ensure that the steel has been erected within allowable tolerances. The survey is to be conducted by an independent inspection/survey company retained by the Project Manager. The erection contractor shall aid the inspection survey company as required to install any markers or sites on columns to facilitate the survey. Report any steel that has been erected which violates the acceptable tolerances to the Consultant, in order to prepare remedial work to correct the problem. Any remedial work will be completed at no cost to the Owner.
- 3 Any testing in addition to the survey, shall be carried out at the option of the Consultant and will be paid for by the Owner, except that any re–testing required due to defective work shall be borne by this Sub–Contractor.

3.5 Clean–up

- 1 At the completion of the work of this Section, remove any excess materials, debris, and equipment from the site.

END OF SECTION

D. WOOD TRUSSES

PART 1 – GENERAL

1.1 References

- 1 Conform to General Instructions, Division 1

1.2 Scope of Work

- 1 **Work Included:** Supply all materials; provide all labour, and equipment to fabricate the prefabricated wood trusses as shown or required by the drawings or specifications.
- 2 **Related Work Specified Elsewhere**
 - 1 Rough Wood Framing – Division 6.
 - 2 Structural Steel Division 5.

1.3 Reference Standards

- 1 All standards in accordance with latest issue.
- 2 CAN/CSA Standard 086–19 ‘Engineering Design in Wood’ Limit States Design
- 3 CAN/CSA 0141–23 Softwood Lumber
- 4 CAN/CSA S307–M1980(R2009) Load Test Procedure for Wood Roof Trusses for Houses and Small Buildings
- 3 CAN/CSA Standard S347–14, Method of Test for Evaluation of Truss Plates Used in Lumber Joints.
- 4 Truss Plate Institute of Canada publication ‘Truss Design Procedures and Specifications for Light Metal Plate Connected Trusses’.
- 5 NPGA–2024, Standard Grading Rules for Canadian Lumber.
- 6 Ontario Building Code.

1.4 Shop Drawings

- 1 Examine all drawings forming a part of this Contract and conform to the requirements of all such drawings.
- 2 Any fabrication executed before review of shop drawings shall be at this Sub–contractor’s risk. Fabrication shall be assumed to begin when material is cut to length, whether this be by the fabricator or at the mill to the fabricator’s orders.
- 3 The Consultant’s review of shop drawings will not relieve the Sub–Contractor from his responsibility for ensuring that his work is complete, accurate, and in accordance with the drawings and specifications.
- 4 The use of reproducible copies of the Consultant’s drawings for erection diagrams will not be permitted.
- 5 Provide two complete sets of PDF’s of the erection diagrams to the Consultant showing truss location and layout.
- 6 Indicate species, sizes, and stress grades of lumber used as truss members. Show pitch, span, camber, configuration and spacing of trusses. Indicate connector types, thicknesses, sizes, locations and design value. Show bearing and bracing details including nailing at these locations.

1.5 Design Criteria

- 1 Certificates
 - 1 Provide shop drawings signed and sealed by the registered Professional Engineer responsible for truss designs and hand set roof framing.
 - 2 Provide shop drawings signed and sealed by the registered Professional Engineer responsible for holdown anchors.
- 2 All loads, forces and reactions shown on the drawings or noted in the specifications are service loads (unfactored) unless noted otherwise.
- 3 Limit live load deflections to 1/360th of the span. Limit total load deflections to 1/240th of the span.
- 4 It is the responsibility of the fabricator to design and supply bracing for the bottom chord and webs of trusses.
- 5 Framing Contractor to supply all truss hold–down anchors shown on the drawings to wood stud walls or steel beams. Truss designer engineer is to ensure all such connectors are compatible with truss design.
- 6 Truss Supplier and their design Engineer shall be responsible for supplying and designing truss hangers that connect one truss to another truss.
- 7 Truss Supplier and their design Engineer shall be responsible for designing and showing location of lateral bracing for compression members taking axial load.
- 8 Indicate connection requirements for: truss to bearing, truss or girder ply to ply, field splices, etc.
- 9 Design wood trusses to accommodate mechanical ducting when cavity dimensions are shown on structural drawings.

1.6 Co–ordination

- 1 Co–ordinate the work of this Section with the General Contractor’s scheduling in accordance with the General Conditions.
- 2 Co–ordinate the work of this Section with the work of all affected Divisions to provide proper clearances and assembly of this work.

1.7 Quality Assurance

- 1 Identify lumber by grade stamp of an agency certified by the Canadian Lumber Standards Administration Board.
- 2 Provide Certificate of Quality Compliance from truss manufacturer upon completion of fabrication.
- 3 Provide Certificate of Quality Compliance upon satisfactory completion of installation.

1.8 Delivery, Storage, and Handling

- 1 Storage and Handling Requirements:
 - 1 Store materials on raised supports. Cover materials with waterproof covering. Provide adequate air circulation and ventilation.
 - 2 Protect trusses from weather and store trusses on job site in accordance with manufacturer’s instructions. Provide bearing supports and bracings to prevent bending or overturning of trusses during transit and storage.

PART 2 PRODUCTS

2.1 Materials

- 1 **Lumber** – Softwood S–P–F species No. 1 grade or better, with minimum nominal chord size of 38x89, with a maximum moisture content of 19% at the time of fabrication and in accordance with the following standards:
 - 1 CAN/CSA–0141 Softwood Lumber
 - 2 NLGA Standard Grading Rules for Canadian Lumber
- 2 **Fastenings:** in accordance with CAN3–086
- 3 **Truss Hold–Down Anchors** – Simpson Strong Tie Anchors as shown on the drawings or approved equal.
- 4 **Truss Plates:**
 - 1 Truss Plates shall be manufactured from galvanized steel that has a thickness of no less than 20 gauge (1.0 mm) and that conforms to or exceeds ASTM A653/A653M Grade 230.
 - 2 Truss Plates shall be tested and evaluated according to CSA S347.
- 5 **Truss Anchors and Hangers:**
 - 1 Truss Anchors and Hangers shall be manufactured from galvanized steel that has a thickness of no less than 18 gauge (1.3mm) and that conforms to or exceeds ASTM A653/A653M Grade 230.
 - 2 Truss Hangers and Anchors shall be tested and evaluated according to CSA 086.
 - 3 The nails used to fasten all hangers and anchors to trusses, headers, girders, beam and walls shall be of the type and size as shown on the hanger design drawings.

2.2 Fabrication

- 1 Fabricate wood trusses in accordance with approved shop drawings.
- 2 Cut truss members to accurate length, angle, and size to assure tight joints in finished trusses.
- 3 Assemble truss members in design configuration by securing tightly in jigs or with clamps.
- 4 Provide for design camber when positioning truss members.
- 5 Connect members using metal connector plates applied with enough pressure to fully embed the teeth of the plate into the lumber without deforming the plate or embedding the plate into the lumber deeper than half the plate thickness.
- 6 Ensure truss members are assembled such that the lumber below truss connector plates do not contain wane, loose knots, or knot holes.

2.3 Quality Control

- 1 All materials and fabrication shall be subject to test by a testing and inspection company appointed by the Contractor.
- 2 Provide access to the work in the shop for the personnel of the inspection company.
- 3 Provide such samples of materials and mill test reports as may be required by the inspection company at no cost to the Owner.
- 4 The cost of testing will be paid for by a testing allowance.

PART 3 EXECUTION

3.1 Examination

- 1 Examine and obtain all necessary measurements of previously executed and existing work which may affect the work of this Section.

3.2 Erection

- 1 Lifting points as identified by the truss designer shall be used to hoist the trusses in place.
- 2 Exercise care to prevent out–of–plane bending of trusses.
- 3 Assume full responsibility for the correct plumbing and alignment and for setting of all trusses.
- 4 If members do not fit properly in the field, repairs must be made by methods to the satisfaction of the Consultant. In no case shall cutting be done without approval of the Consultant and the truss Designer.
- 5 Erect the wood trusses true and plumb. Place temporary bracing where necessary to take care of all loads to which the incomplete building may be subjected, such as wind, equipment, or construction procedures. Leave temporary bracing in place as long as necessary for the safety of the structure.
- 6 Install permanent bracing and related components prior to application of loads to trusses.
- 7 Trusses with loose connector plates will be rejected, removed and replaced with properly fabricated trusses.
- 8 Restrict construction loads to prevent overstressing of truss members.
- 9 Framing Contractor to supply and install all bridging lines specified on truss drawings as indicated on truss erection drawings.
- 10 Do not cut or remove any truss material without approval.

3.3 Clean–up

- 1 At the completion of the work of this section, remove any excess materials, debris, and equipment from the site.

END OF SECTION

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2	FEB 20, 26	ISSUED FOR PERMIT/TENDER	
#	Date	Revision	By



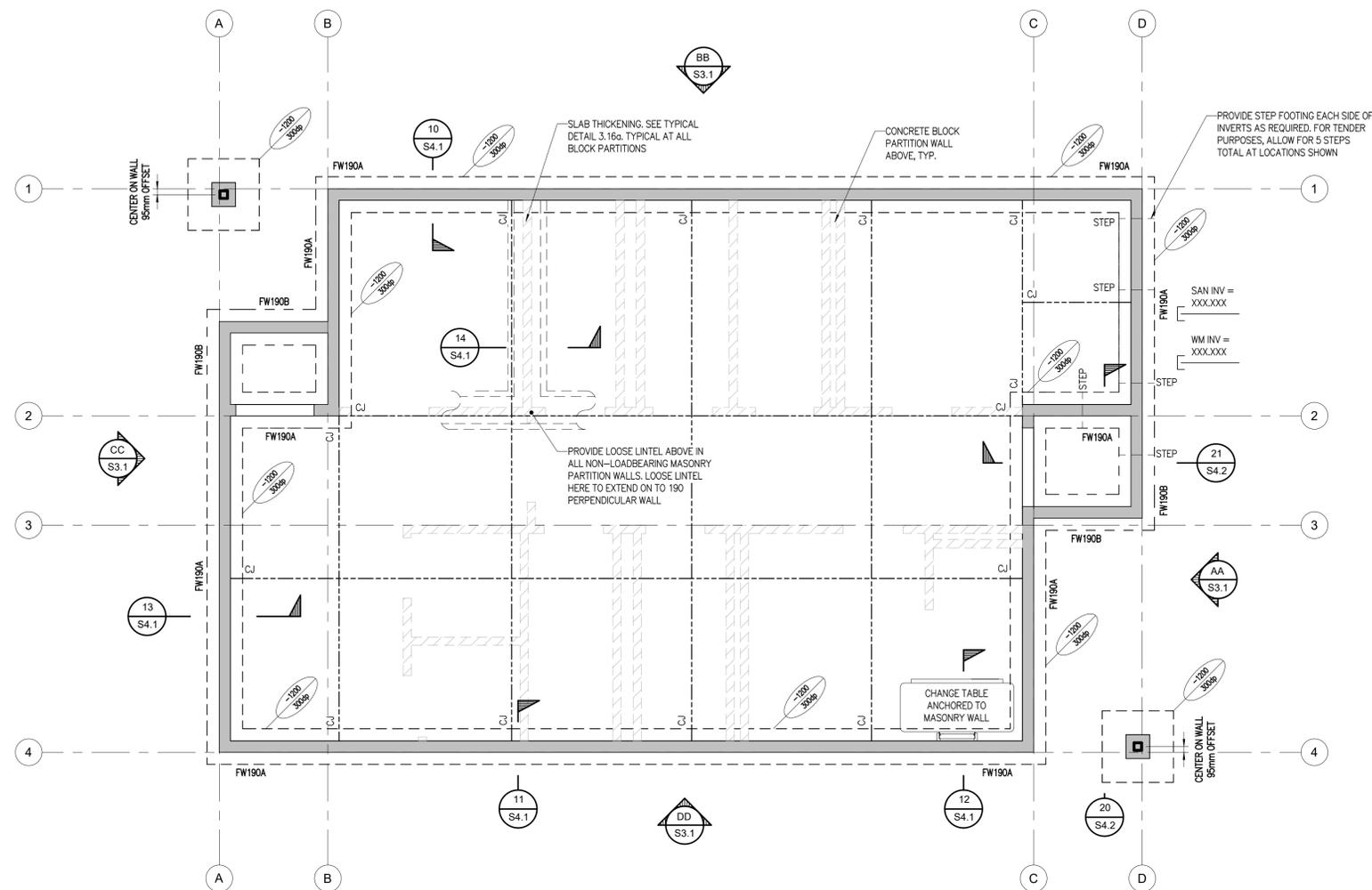
PORT GLASGOW TRAILER PARK SEASONAL OFFICE AND SHOWER FACILITY
8650 Furnival Rd, Rodney, ON N0L 2C0
Client MUNICIPALITY OF WEST ELGIN
Project No. 25286

SPECIFICATIONS

Scale
Drawn By AV
Reviewed By PSR
Revision No. 2
Plot Date 2026-02-20

Drawing No.

S0.2



FOUNDATION PLAN
1 : 50

FOUNDATION PLAN NOTES

- TOP OF SLAB ELEVATION IN LOWER LEVEL IS AT +0000 (XXXXXX), CONFIRM ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- THE BUILDING FOUNDATIONS HAVE BEEN DESIGNED FOR A BEARING RESISTANCE (SLS) OF 100 kPa (2000 psf) AND A FACTORED BEARING RESISTANCE (ULS) OF 150 kPa (3000 psf) ON UNDISTURBED NATIVE SOIL U.N.O. ON PLAN. ALL BEARING RESISTANCES TO BE VERIFIED BY GEOTECHNICAL INVESTIGATION AFTER EXCAVATION AND REPORTED TO STRUCTURAL CONSULTANT.
- UNDERSIDE OF FOOTINGS ARE TO BE A MINIMUM OF 1200mm BELOW FINISHED GRADE UNLESS NOTED OTHERWISE AS THUS $\left(\frac{1200}{3000}\right)$ ON PLAN. AT LOCATIONS WHERE STRIP FOOTINGS ABUT PAD FOOTINGS THICKEN STRIP FOOTING LOCALLY TO MATCH UNDERSIDE OF ADJACENT PAD FOOTING AS SHOWN ON TYPICAL DETAIL 3.03.
- TYPICAL SLAB ON GRADE CONSTRUCTION U.N.O.: 125mm CONCRETE SLAB WITH 152x152 MW18.7xMW18.7 WELDED WIRE FABRIC ON VAPOUR BARRIER ON 200mm LAYER OF COMPACTED 19mm CLEAR CRUSHED STONE ON APPROVED NATIVE SUBGRADE OR APPROVED ENGINEERED FILL.
- SEE ARCHITECTURAL DRAWINGS FOR SLOPES TO DRAINS IN FLOOR AREAS. MAINTAIN ALL STRUCTURAL THICKNESS SHOWN.
- SEE ARCHITECTURAL DRAWINGS FOR TOP OF FOUNDATION WALL ELEVATIONS. DEPRESS TOP OF FOUNDATION WALL 300mm AT ALL DOOR OPENINGS.
- CENTRE ALL CONCRETE PIERS UNDER STEEL COLUMN BASE PLATES UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR COLUMN OFFSETS FROM GRID LINES.
- AT ALL LOCATIONS ON PLAN NOTED AS THUS $\left(\frac{1200}{3000}\right)$, PROVIDE A SAWCUT OR A CONSTRUCTION JOINT (SEE TYPICAL DETAIL 3.15). PROVIDE A CONTROL JOINT AT ALL INTERIOR DOOR LOCATIONS OVER FOUNDATION WALLS. FINAL LOCATIONS OF CONTROL JOINTS MUST BE COORDINATED BETWEEN THE CONCRETE CONTRACTOR AND THE FLOOR FINISHING CONTRACTOR THROUGH THE GENERAL CONTRACTOR. MANY SLAB ON GRADE SAWCUTS HAVE BEEN OMITTED FOR CLARITY - CONTRACTOR TO FOLLOW 3.15 AND SUBMIT SAWCUT PATTERNS FOR REVIEW BY THE ARCHITECT AND STRUCTURAL CONSULTANT.
- CONCRETE CONTRACTOR TO COORDINATE WITH ALL TRADES THE LOCATION OF ALL PIPE SLEEVES THROUGH CONCRETE FOUNDATION WALLS. PIPE SLEEVES MAY NOT BE PLACED WITHIN FOOTINGS. FOUNDATIONS MUST BE STEPPED DOWN TO ACCOMMODATE ELEVATION OF PIPE SLEEVES. SEE TYPICAL DETAILS FOR STEPS IN FOUNDATION WALLS. REPORT ANY DISCREPANCIES TO THE STRUCTURAL CONSULTANT.
- UNDERSIDE OF ALL COLUMN BASE PLATES TO BE 200mm BELOW TOP OF FINISH FLOOR ELEVATION UNLESS NOTED OTHERWISE IN THE COLUMN SCHEDULE.
- FOR 125mm SLAB ON GRADE, THICKEN SLAB UNDER ALL CONCRETE BLOCK PARTITION WALLS AND BEARING LOCATIONS FOR STAIRS (SEE TYPICAL DETAIL 3.16A). FOR 200mm SLAB ON GRADE, PROVIDE 15M @ 300 TRANSVERSE BARS x 1500mm LONG AND 4-15M CONT. COORDINATE DIMENSIONS TO CONCRETE BLOCK PARTITION WALLS AND STAIRS WITH ARCHITECTURAL PLANS. NON-LOADBEARING BLOCK PARTITION WALLS ARE SHOWN ON FOUNDATION PLAN AS THUS $\left(\frac{1200}{3000}\right)$ FOR INFORMATION ONLY. LOCATION OF ALL BLOCK PARTITIONS AND CORRESPONDING SLAB THICKENINGS MUST BE COORDINATED WITH ARCHITECTURAL PLANS AND DETAILS.
- PROVIDE A STEPPED STRIP FOOTING WHERE INDICATED ON PLAN AS 'STEP'. SEE TYPICAL DETAIL 3.02 FOR STEP FOOTING DETAILS AND LIMITATIONS.
- SEE TYPICAL DETAIL 3.33 FOR CONSTRUCTION OF HOUSEKEEPING PADS FOR MECHANICAL & ELECTRICAL EQUIPMENT. SEE MECHANICAL & ELECTRICAL DRAWINGS FOR REQUIRED CONCRETE HOUSEKEEPING PAD LOCATION AND DIMENSIONS. HOUSEKEEPING PADS NOT SHOWN ON STRUCTURAL DRAWINGS.
- PROVIDE DOWELS FOR WALLS OR COLUMNS IN STRIP FOOTINGS TYPICAL. DOWELS TO MATCH WALL OR COLUMN VERTICAL REINFORCEMENT TYPICAL.
- PROVIDE 25mm THICK RIGID INSULATION BETWEEN ADJACENT FOOTING POURS, TYP. AT ALL LOCATIONS WHERE TWO SEPARATE FOOTINGS ARE IN CLOSE CONTACT WITH EACH OTHER.

2	FEB 20, 26	ISSUED FOR PERMIT/TENDER	
1	DEC 5, 25	COORDINATION	
#	Date	Revision	By



PORT GLASGOW TRAILER PARK SEASONAL OFFICE AND SHOWER FACILITY
8650 Furnival Rd, Rodney, ON N0L 2C0
Client: MUNICIPALITY OF WEST ELGIN
Project No.: 25286

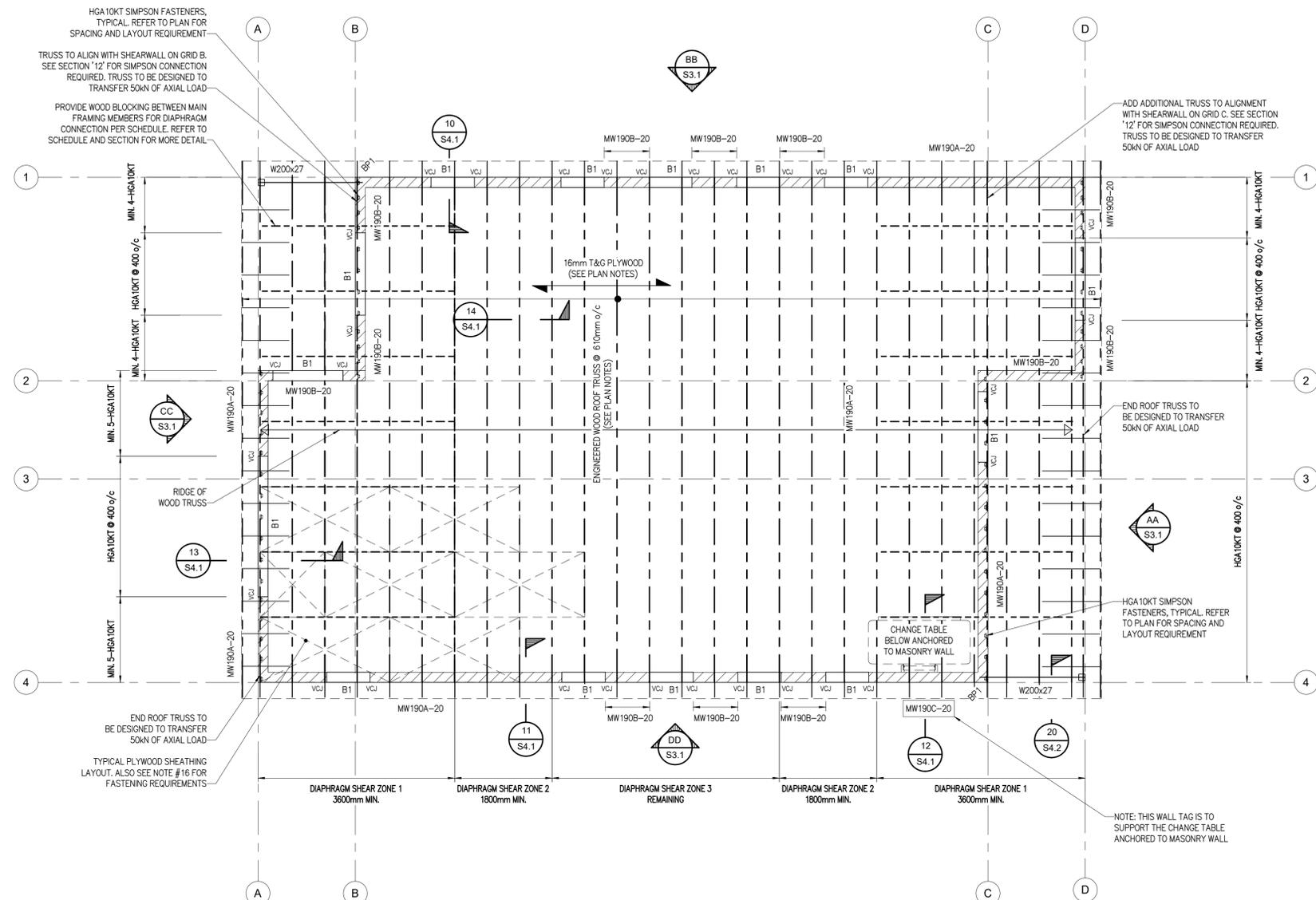
FOUNDATION PLAN

Scale: As indicated
Drawn By: A
Reviewed By: PSR
Revision No.: 2
Plot Date: 2026-02-20



Drawing No.

S1.0



ROOF FRAMING PLAN
1 : 50

ROOF DIAPHRAGM SHEAR TABLE				
DIAPHRAGM ZONE #	BLOCKING (SIZE AND LENGTH)	NAIL (SIZE AND LENGTH)	NAILING PATTERN AT PLYWOOD EDGE	NAILING PATTERN AT INTERMEDIATE SUPPORTS
1	BLOCKED w/ SOLID I-JOIST BLOCKING AT PANEL EDGES	3.25mm Ø x 2.5" LONG COMMON NAILS	4" o/c	12" o/c
2	UNBLOCKED	3.25mm Ø x 2.5" LONG COMMON NAILS	4" o/c	12" o/c
3	UNBLOCKED	3.25mm Ø x 2.5" LONG COMMON NAILS	6" o/c	12" o/c

NOTES:

- PROVIDE PLYWOOD SHEATHING AND NAILING AS SPECIFIED ABOVE. PROVIDE HORIZONTAL BLOCKING BETWEEN ALL ROOF FRAMING MEMBERS AS SPECIFIED ABOVE TO MATCH PANEL EDGES TO ACHIEVE PROPER NAILING PATTERNS.
- DIAPHRAGM LOCATIONS ARE SHOWN ON ROOF FRAMING PLAN WITH MINIMUM DIMENSIONS REQUIRED FOR EACH ZONE. DIMENSION LINES TO FRAMING MEMBERS ARE APPROXIMATE ONLY. IF DIMENSION FALLS BETWEEN TWO FRAMING MEMBERS, CARRY BLOCKING/NAILING PATTERN TO NEXT JOIST TO EXCEED MINIMUM DIMENSION. NOTE - IF NEXT ZONE HAS A MINIMUM DIMENSION, THIS DIMENSION IS TO START FROM THE END OF THE PREVIOUS ZONE ON SITE AND FOLLOW THE SAME DIRECTION AS ABOVE.

ROOF FRAMING PLAN NOTES

- U/S ROOF TRUSS ELEVATION IS AT +2630. CONFIRM ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- TOP OF STEEL BEAM IS AT UNDERSIDE OF ROOF TRUSS UNLESS NOTED ON PLANS THUS " " BELOW UNDERSIDE OF SLOPING ROOF DECK.
- TYPICAL WOOD ROOF CONSTRUCTION U.N.O.: STANDING SEAM METAL ROOFING ON 16mm T&G PLYWOOD SHEATHING ON ENGINEERED WOOD ROOF TRUSSES. (SEE PLANS FOR ORIENTATION AND SPANS.) REFER TO NOTE #16 FOR SHEATHING FASTENING REQUIREMENTS. ROOF TRUSSES ARE SUPPORTED BY CONCRETE MASONRY WALLS AND/OR BEAMS AS SHOWN ON PLAN. WOOD ROOF FABRICATOR TO DESIGN WOOD TRUSSES BASED ON LOADS SHOWN ON PLAN AND SCHEDULE. NOTE AREAS WITH DRIFT LOADING MAY REQUIRE HEAVIER TRUSSES.
- PLYWOOD DECK SPAN DIRECTION IS INDICATED WITH ARROWS AS THUS " " ON PLAN.
- ADDITIONAL SNOW LOAD ACCUMULATION IS INDICATED AS "DRIFT" AND IS SHOWN ON PLAN. THIS LOAD IS IN ADDITION TO THE BASIC SNOW LOAD LISTED ON THIS DRAWING. NOTE DRIFTS ARE CUMULATIVE - SEE DASHED PROFILE BOUNDARIES ON PLAN.
- SEE ARCHITECTURAL DRAWINGS FOR COLUMN OFFSETS FROM GRID LINES.
- NOT ALL ROOF OPENINGS HAVE BEEN SHOWN ON PLAN. WOOD TRUSS FABRICATOR TO COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS WITH GENERAL CONTRACTOR PRIOR TO FABRICATION.
- BEAMS DENOTED WITH " " ARE TO BE CONNECTED FOR FULL MOMENT AND SHEAR CAPACITY OF BEAM UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL OUTSIDE OF THE BUILDING ENVELOPE TO BE HOT DIPPED GALVANIZED (HDG) UNLESS NOTED OTHERWISE.
- MECHANICAL UNITS ARE SHOWN ON PLAN BASED ON THE LATEST INFORMATION AVAILABLE TO THE CONSULTANTS. WOOD TRUSS FABRICATOR MUST COORDINATE FINAL WEIGHT, SIZE AND LOCATION OF ALL ROOFTOP UNITS WITH GENERAL CONTRACTOR PRIOR TO FABRICATION.
- WOOD TRUSS ROOF FABRICATOR TO DESIGN AND SUPPLY ALL TRUSSES INDICATED ON PLAN. SEALED AND SIGNED SHOP DRAWINGS ARE TO BE SUBMITTED WITH THE DESIGNED TRUSS PACKAGE TO THE OWNER.
- WOOD ROOF TRUSS ENGINEER AND TRUSS FABRICATOR TO SUPPLY DETAILS FOR AND MATERIALS FOR TRUSSES WITH SPECIAL BEARING REQUIREMENTS INCLUDING WOOD SCABBING, SIMPSON TRUSS BEARING ENHANCERS (TBE), BRIDGING, ETC. THESE ITEMS SHALL BE NOTED ON THE TRUSS SHOP DRAWING SUBMISSION. IT IS ASSUMED THE WOOD I-JOIST TOP AND BOTTOM CHORDS ARE A MINIMUM OF 38mm THICK FOR DIAPHRAGM CONNECTIONS.
- ALL ENGINEERED WOOD TRUSSES INDICATED ON PLAN ARE TO BE DESIGNED BY THE TRUSS FABRICATOR FOR ALL LOADS INDICATED IN THE LOAD SCHEDULE FOR THE DEPTH OF TRUSS SHOWN ON PLAN. ALL WOOD JOISTS TO BE DESIGNED FOR A MIN. DEFLECTION CRITERIA OF L/480 FOR LIVE LOADS.
- THE WOOD ROOF DECK, ROOF TRUSSES, AND ALL ASSOCIATED CONNECTIONS TO SUPPORTING MEMBERS ARE TO BE DESIGNED FOR A FACTORED UNIFORM NET UPLIFT PRESSURE OF 1.30 kPa ON THE FOLLOWING DESIGN BASIS:
FACTORED GROSS UPLIFT (1.4W): 1.75 kPa
FACTORED DEAD LOAD FOR UPLIFT (0.9D): 0.45 kPa (METAL DECK 0.15 kPa, PLYWOOD 0.1 kPa, TRUSS 0.25 kPa - MODIFY AS REQUIRED FOR TRUSS SELF WEIGHT)
FACTORED NET UPLIFT PRESSURE (1.4W-0.9D) = 1.30 kPa
NOTE: SIMILAR METHODS SHALL BE FOLLOWED FOR STEEL STUD ROOF MEMBERS WITH SELF WEIGHT OF STRUCTURE ONLY USED TO RESIST UPLIFT.
- WHERE HURRICANE TIE DOWN ANCHORS ARE NOT SPECIFIED ON PLAN OR IN SECTIONS AT WOOD TRUSS BEARING POINTS, PROVIDE SIMPSON STRONG-TIE H10A HURRICANE TIES AT EACH BEARING POINT, U.N.O.
- ROOF SHEATHING FASTENING, NAILING AND BLOCK IS SPECIFIED IN ROOF DIAPHRAGM TABLE ON SHEET S1.1.
- DESIGN THE ENGINEERED ROOF STRUCTURE AND ROOF DECK INCLUDING THEIR CONNECTION TO SUPPORTING ELEMENTS FOR AN FACTORED DIAPHRAGM SHEAR FORCE OF 7.2 kN/m (ZONE 1), 6.4 kN/m (ZONE 2), AND 4.2 kN/m (ZONE 3).
- CONTRACTOR AND WOOD ROOF TRUSS FABRICATOR TO COORDINATE BLOCKING FOR ALL PLYWOOD EDGES WITHIN ROOF FRAMING TO ALLOW FOR FASTENING TO OCCUR.
- ALL NEW SAWN LUMBER TO BE SPF No. 1/2 OR BETTER.
- ALL STEEL BEAMS WITH WOOD TRUSS FRAMING INTO THEM ARE TO HAVE THE GAP BETWEEN TOP AND BOTTOM FLANGES FILLED SOLID WITH WOOD BLOCKING BOLTED TO THE WEB w/2 ROWS OF 12mmØ THROUGH BOLTS @ 600mm o/c, TYPICAL.

2	FEB 20, 26	ISSUED FOR PERMIT/TENDER	
1	DEC 5, 25	COORDINATION	
#	Date	Revision	By



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8650 Furnival Rd, Rodney, ON N0L 2C0
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Project No. 25286

ROOF FRAMING PLAN

Scale	As indicated
Drawn By	AV
Reviewed By	PSR
Plot Date	2026-02-20

Drawing No. **S1.1**

STRUCTURAL DESIGN LOAD DATA						
LOAD AREA #	FLOOR / ROOF LOCATION	PLAN DRAWING REFERENCE	TYPE OF LOAD			
			DEAD		LIVE	
			CONSTRUCTION	VALUE (kPa)	TYPE	VALUE (kPa)
1	ROOF	S1.3-S1.5	METAL ROOFING + ROOFING ALLOWANCE 16mm PLYWOOD SHEATHING ENGINEERED ROOF TRUSS M+E ALLOWANCE CEILING ALLOWANCE	0.40 0.10 0.25 0.25 0.30 1.30	BASIC SNOW, CASE I; CASE II; ALLOW FOR: SNOW DRIFT	1.12 1.29 AS SHOWN ₂
OTHER ENVIRONMENTAL LOADS			WIND PRESSURE $q_w = 0.47 \text{ kPa}$ $I_w = 1.00$	SNOW & RAIN $S_s = 1.30 \text{ kPa}$ $S_r = 0.40 \text{ kPa}$ $I_s = 1.00$	SEISMIC DATA $S_s(0.2) = 0.249$ $S_s(0.5) = 0.227$ $S_s(1.0) = 0.129$ $S_s(2.0) = 0.059$ PGA = 0.150 $I_e = 1.0$	SITE CLASS: D SEISMIC CATEGORY = SC2 (SEE NOTE 6) M&E SEISMIC RESTRAINT = NOT REQ'D METHOD OF ANALYSIS: EQUIVALENT STATIC FORCE PROCEDURE
NOTES:						
1. ALL LOADS SHOWN ABOVE APPLY TO THE AREAS OF THE BUILDING AS INDICATED (REFERENCE TO ARCHITECTURAL PLANS IS NECESSARY TO PROPERLY READ THIS TABLE), AND ARE BASED ON AND INTERPRETED FROM THE LATEST VERSION OF THE ONTARIO BUILDING CODE. USE THESE LOADS IN DESIGN OF BUILDING COMPONENTS AS REQUIRED.						
2. ADDITIONAL SNOW PILE UP IS INCLUDED AS A "DRIFT" DIAGRAM ON ROOF FRAMING PLAN. SNOW DRIFT LOADS ARE IN ADDITION TO THE BASIC SNOW LOADS INDICATED. OVERLAPPING SNOW DRIFT LOADS ARE CUMULATIVE.						
3. DEAD LOAD SHOWN IN TABLE IS EXCLUSIVE OF M+E EQUIPMENT. MECHANICAL EQUIPMENT PLAN SIZES AND LOADS ARE SHOWN ON STRUCTURAL PLAN BASED ON THE LATEST INFORMATION AVAILABLE TO THE CONSULTANTS. REPORT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS TO THE CONSULTANTS FOR REVIEW.						
4. SEE MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR MECHANICAL EQUIPMENT LOCATIONS AND LOADS.						
5. DEAD LOAD SHOWN IN TABLE IS EXCLUSIVE OF MASONRY WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY WALL TYPE AND LOCATIONS.						
6. THE "SEISMIC CATEGORY" VALUE LISTED ABOVE SHALL BE USED ONLY IN REFERENCE TO THESE STRUCTURAL DOCUMENTS. ALL OTHER CONSULTANTS (NOT STRUCTURAL) MUST VERIFY THIS "SEISMIC CATEGORY" PRIOR TO USING FOR THEIR OWN PURPOSES.						
7. GABLE ROOF SNOW LOAD FOR TRUSS DESIGN:						

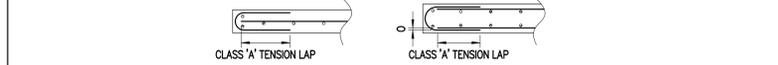
CONCRETE BLOCK WALL SCHEDULE			
WALL MARK	WALL WIDTH (mm)	WALL REINFORCING	COMMENTS
MM190A-20	190	- 1-15M VERT. @ 1200mm o/c - 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (e.g. TYP. CORRIDOR BEAM BEARING) - 2-20M T&B HORIZONTAL IN 2 COURSE DEEP CONT. BOND BEAM AT TOP OF WALL - SEE ELEVATION FOR ADDITIONAL REINFORCING	
MM190B-20	190	- 1-15M VERT. @ 200mm o/c, FULLY GROUTED - 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (e.g. TYP. CORRIDOR BEAM BEARING) - 2-20M T&B HORIZONTAL IN 2 COURSE DEEP CONT. BOND BEAM AT TOP OF WALL - SEE ELEVATION FOR ADDITIONAL REINFORCING	
MM190C-20	190	- 1-15M VERT. @ 600mm o/c, FULLY GROUTED - FULLY GROUT WALL FOR CHANGE TABLE MOUNTING TO BLOCK WALL - 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (e.g. TYP. CORRIDOR BEAM BEARING) - 2-20M T&B HORIZONTAL IN 2 COURSE DEEP CONT. BOND BEAM AT TOP OF WALL - SEE ELEVATION FOR ADDITIONAL REINFORCING	

NOTES:			
1. ALL MASONRY WALLS SHOWN ON PLAN AS THUS ARE LOAD BEARING (GRAVITY AND/OR LATERAL).			
2. PROVIDE 9 GAUGE LADDER TYPE REINFORCING IN EVERY OTHER HORIZONTAL COURSE (@ 400mm o/c MAX. VERTICAL) UNLESS NOTED OTHERWISE IN SCHEDULE COMMENTS.			
3. PROVIDE 2-20M VERTICAL IN CORE ADJACENT TO EACH SIDE OF ROUGH OPENINGS OR IN CORE ADJACENT TO BEARING PLATE OF STEEL LINTEL. VERTICAL REINFORCING IS TO BE INSTALLED CONT. FROM CONCRETE WALL TO UNDERSIDE OF BEAM/STEEL DECK.			
4. FULLY GROUT ALL REINFORCED CORES. (SEE NOTE #8)			
5. FILL ALL CORES IN PIERS LESS THAN 600mm IN WIDTH SOLID WITH GROUT IN ADDITION TO THAT REQUIRED BY NOTE #3.			
6. GROUT SOLID ALL CORES BELOW THE BEARING POINT OF ALL BEAMS, JOISTS OR LINTELS CONT. TO THE FOUNDATION.			
7. PROVIDE MECHANICAL CONNECTION BETWEEN LOWER AND UPPER LIFTS OF VERTICAL REINFORCING.			
8. ALL GROUT SHALL HAVE MINIMUM 28-DAY STRENGTH OF 15MPa WITH 10mm MAX. AGGREGATE SIZE AND 225mm ± 25mm SLUMP. ALL GROUTING TO CONFORM TO CSA/CAN3 A371-M84. PLACE GROUT IN "LOW LIFTS" (NOT MORE THAN 1500mm VERTICAL).			
9. ENSURE ALL LOAD BEARING CONCRETE BLOCK WALLS ARE BUILT TIGHT TO STEEL BUILDING COLUMNS. FILL ANY GAPS BETWEEN END OF CONCRETE BLOCK WALL AND FACE OF COLUMN SOLID WITH GROUT.			
10. WALL TYPE NOTATION: MM190#-20: I.E. MASONRY WALL 190 BLOCK. REINFORCING PER LETTER "A" WITH 20MPa BLOCK.			
11. VERTICAL CONTROL JOINTS ARE DENOTED AS 'VCJ' ON PLAN AND ELEVATION. LOCATIONS SHOWN ARE SUGGESTED LAYOUTS BASED ON DESIGN. ALL CHANGES REQUIRED TO LAYOUT OF 'VCJ' MUST BE APPROVED BY VB&S PRIOR TO CONSTRUCTION. BOND BEAM REINFORCING IS TO BE CONTINUOUS THRU VCJ AT ALL LOCATIONS, U.N.O.			

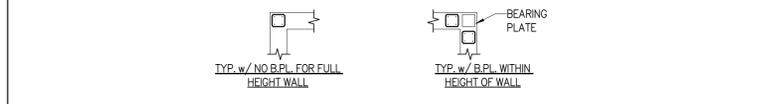
LOAD BEARING LINTEL SCHEDULE			
PLATE MARK	SIZE (mm)	BEARING PLATE / MINIMUM BEARING LENGTH	COMMENTS
B1	BOND BEAM LINTEL - SEE MASONRY SCHEDULE	200mm BEARING MIN.	-ENSURE BOND BEAM BARS ARE CONTINUOUS OVER FULL OPENING
NOTES:			
1. BOND BEAM MASONRY LINTEL TO HAVE ALL BARS CONTINUOUS OVER OPENING.			

FOUNDATION WALL AND STRIP FOOTING SCHEDULE					
WALL MARK	WALL WIDTH (mm)	WALL REINFORCING	STRIP FOOTING SIZE (mm)	STRIP FOOTING REINFORCING	COMMENTS
FW190A	190	- 2-20M CONT. - DOWEL TO MATCH MASONRY WALL REINFORCING ABOVE	600x300dp	- 15M @ 600 o/c DOWELS x 600 LONG STAGGERED	
FW190B	190	- 2-20M CONT. - DOWEL TO MATCH FROST SLAB	600x300dp	- 15M @ 600 o/c DOWELS x 600 LONG STAGGERED	

NOTES:	
1.	UNLESS NOTED OTHERWISE IN SECTIONS AND DETAILS, PROVIDE DOWELS FROM STRIP FOOTING TO CONCRETE FOUNDATION WALL. DOWELS SHOULD MATCH VERTICAL WALL REINFORCING IN SIZE AND SPACING. THE LENGTHS OF DOWELS IN BOTH STRIP FOOTING & CONCRETE WALL SHOULD BE CLASS "A" SPLICE LENGTH MINIMUM.
2.	SEE TYPICAL DETAIL 3.01 FOR CLEAR COVER TO REINFORCING BARS IN CONCRETE WALLS AND FOOTINGS.
3.	FOR WALLS POURED IN MULTIPLE LIFTS, PROVIDE VERTICAL DOWELS FROM LOWER TO UPPER LIFT OF CONCRETE WALL TO MATCH VERTICAL REINFORCING IN UPPER LIFT.
4.	FOR WALLS POURED IN MULTIPLE LIFTS, PROVIDE 2-20M CONT. TOP AND BOTTOM OF EACH LIFT
5.	FOR WALL TYPES INDICATED, PLACE REINFORCING AND TIES AS SHOWN IN TYPICAL DETAIL 3.06 FOR TIED CONCRETE PIERS. PIER TYPE REINFORCING TO EXTEND FROM FOUNDATION WALL BELOW OR LOWER LIFT TO UPPER LIFT. PROVIDE TIED DOWELS TO MATCH PIER REINFORCING IN FOUNDATION WALL OR LOWER LIFT.
6.	OUTSIDE FACE IS THE FACE OF THE WALL TOWARD TO THE EXTERIOR OF THE STRUCTURE (i.e. FACING OUTSIDE OR EXTERIOR AGAINST BACKFILL) OR IS THE LOW SIDE OF A RETAINING WALL.
7.	SEE STRUCTURAL SPECIFICATION FOR REQUIRED MINIMUM CONCRETE STRENGTHS, SLUMPS, AND AIR CONTENTS.
8.	TYPICAL, PROVIDE U-SHAPE BARS TO MATCH HORIZONTAL REINFORCING BAR AT WALL OPENING AND END OF WALL LOCATIONS
9.	FOR SHEARWALLS, ELEVATOR SHAFT WALLS, STAIR SHAFT WALLS WITH FULL HEIGHT CONCENTRATED BARS + TIES AT ENDS AND CORNERS, WHERE A STEEL BEARING PLATE EXISTS AT THE END OR CORNER SOMEWHERE ALONG THE HEIGHT OF THE WALL, OFFSET THE CONCENTRATED BARS TO ALLOW TO THEM TO RUN UNIMPEDDED FOR FULL HEIGHT OF WALL (FOOTING TO TOP).



ABBREVIATIONS:		
V.I.F. = VERTICAL INSIDE FACE	V.O.F. = VERTICAL OUTSIDE FACE	T.U.L. = TOP UPPER LAYER
H.I.F. = HORIZONTAL INSIDE FACE	H.O.F. = HORIZONTAL OUTSIDE FACE	T.L.L. = TOP LOWER LAYER
V.E.F. = VERTICAL EACH FACE	H.E.F. = HORIZONTAL EACH FACE	B.U.L. = BOTTOM UPPER LAYER
E.W.E.F. = EACH WAY EACH FACE	E.W.I.F. = EACH WAY INSIDE FACE	B.L.L. = BOTTOM LOWER LAYER
E.W.O.F. = EACH WAY OUTSIDE FACE	M.E.W. = MIDDLE EACH WAY	



STEEL BEARING PLATE SCHEDULE				
PLATE MARK	PLATE SIZE (mm)	ANCHOR BOLTS	ANCHOR SPACING	COMMENTS
BP1	190x20x200L	2-13mm @ x 300 LONG + 50 HOOK BOLTS	100	

NOTES:				
1. STEEL BEARING PLATES TO BE FABRICATED BY STRUCTURAL STEEL CONTRACTOR AND PLACED BY CONCRETE FORMING CONTRACTOR (CONCRETE WALL, BEAM OR COLUMN) OR THE MASONRY CONTRACTOR (CONCRETE BLOCK WALL).				
2. LOCATION AND ELEVATION OF BEARING PLATES TO BE COORDINATED WITH STRUCTURAL STEEL SHOP DRAWINGS. BEAM OR JOIST TO BE SUPPORTED ON THE PLATE TO BE CENTRED ALONG THE LENGTH OF THE PLATE U.N.O.				
3. DIMENSION OF PLATE NOTED IN PLATE SIZE COLUMN AS 'L' TO BE PLACED ALONG THE LENGTH OF THE WALL, UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.				
4. BEAM FLANGE OR JOIST SHOE TO BE FIELD WELDED DOWN TO TOP OF BEARING PLATE USING A MINIMUM 6mm FILLET WELD EACH SIDE OF BEAM/JOIST SHOE FOR THE ENTIRE LENGTH OF BEARING.				
5. FOR BEARING PLATES PLACED ON CONCRETE BLOCK WALLS - GROUT SOLID THE CORES OF THE BLOCKS CONTAINING THE ANCHOR BOLTS OF THE PLATES CONTINUOUS TO THE TOP OF THE FOUNDATION WALL. GROUT SOLID THE BEAM/JOIST POCKETS AFTER FIELD WELDING				
6. ANCHOR BOLTS SHOWN TO BE WELDED TO THE UNDERSIDE OF THE BEARING PLATE FOR TENSILE CAPACITY OF THE BOLT.				

COLUMN AND PAD FOOTING SCHEDULE			
COLUMN MARK	A-1	D-4	
COLUMN/FOOTING DATA			
LEVEL 2 FLOOR ELEVATION +3000			
LEVEL 1 FLOOR ELEVATION +0000			
u/s OF STEEL BASE PLATE ELEVATION (FROM ELEVATION +0000)	-200	-200	
TOP OF PIER ELEVATION (FROM ELEVATION +0000)	-250	-250	
BASE PLATE (mm) (SQUARE U.N.O.)	275x19x275	275x19x275	
ANCHOR BOLT	No. / SIZE	4-200	4-200
	EMBEDMENT (mm)	400	400
	HOOK (mm)	100	100
PIER	SIZE (mm)	400x400	400x400
	VERTICAL REINFORCING	8-20M	8-20M
	TIES (SEE TYP. DETAIL 3.06)	10M @ 300	10M @ 300
FOOTING	SIZE (L x t x W mm)	1200x300x1200	1200x300x1200
	HORIZONTAL REINFORCING	5-15M B.E.W. HOOKED	5-15M B.E.W. HOOKED
COMMENTS			
UNFACTORED LOADS (kN)	DL = 15 LL = 15	DL = 15 LL = 15	
COLUMN MARK	A-1	D-4	

COLUMN AND PAD FOOTING SCHEDULE NOTES	
1.	FOR COLUMN OFFSETS FROM GRIDLINES. REFER TO ARCHITECTURAL DRAWINGS.
2.	COLUMN SCHEDULE IS SCHEMATIC ONLY. COORDINATE ALL TOP OF COLUMNS, COLUMN SPLICE LOCATIONS, CONNECTIONS, ETC. WITH PLANS, SECTIONS AND ARCHITECTURAL DRAWINGS.
3.	FOR PLACEMENT OF CONCRETE PAD FOOTINGS AND ASSOCIATED PIERS. SEE TYPICAL DETAIL 3.05 AND 3.38.
4.	FOR TIES IN ALL CONCRETE COLUMNS AND PIERS. SEE TYPICAL DETAIL 3.06.
5.	FOR STRUCTURAL STEEL BASE PLATES AND PAD FOOTINGS, FIRST PLAN DIMENSION IS TO BE ORIENTED IN THE N-S DIRECTION U.N.O.
6.	SEE STRUCTURAL SPECIFICATION FOR REQUIRED MINIMUM CONCRETE STRENGTHS, SLUMPS, AND AIR CONTENTS.
7.	SEE TYPICAL DETAIL 3.01 FOR CLEAR COVER TO REINFORCING BARS IN CONCRETE PIERS AND FOOTINGS.
8.	ALL BOTTOM REINFORCING FOR PAD FOOTINGS TO BE HOOKED, UNLESS NOTED OTHERWISE.

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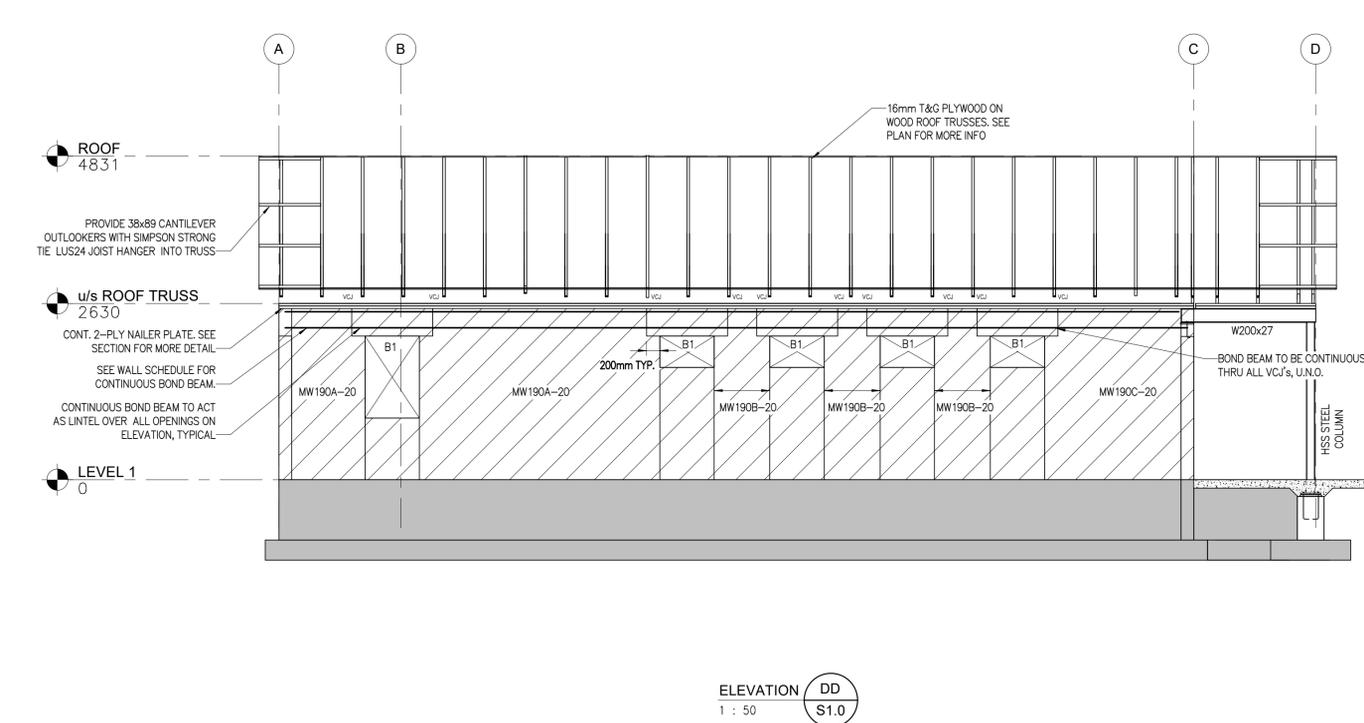
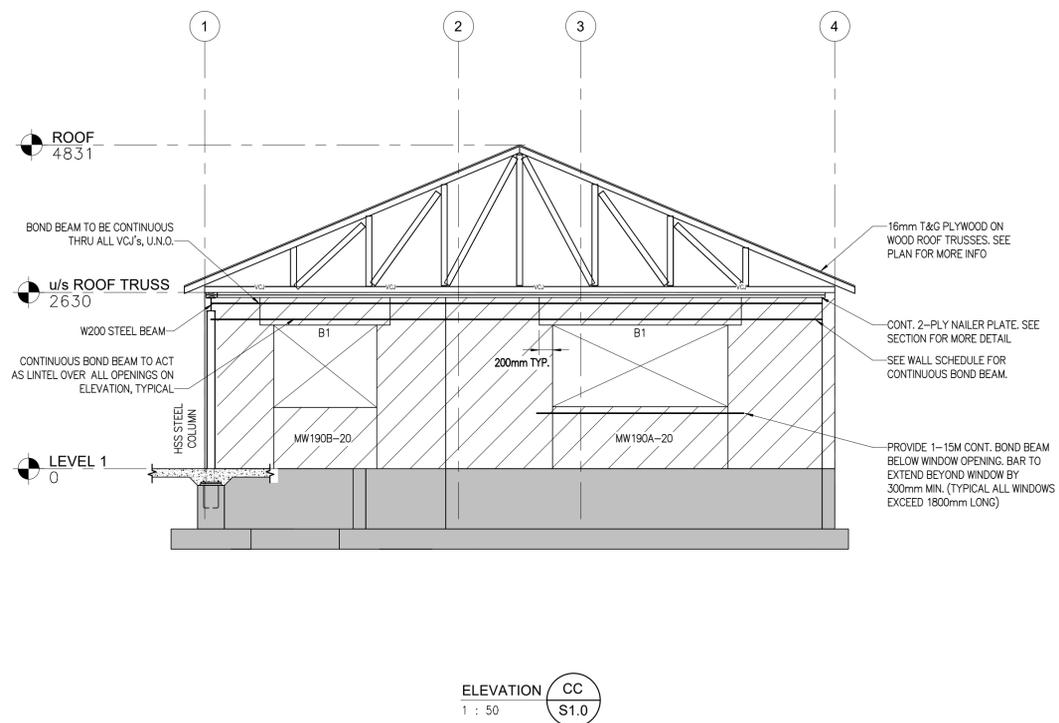
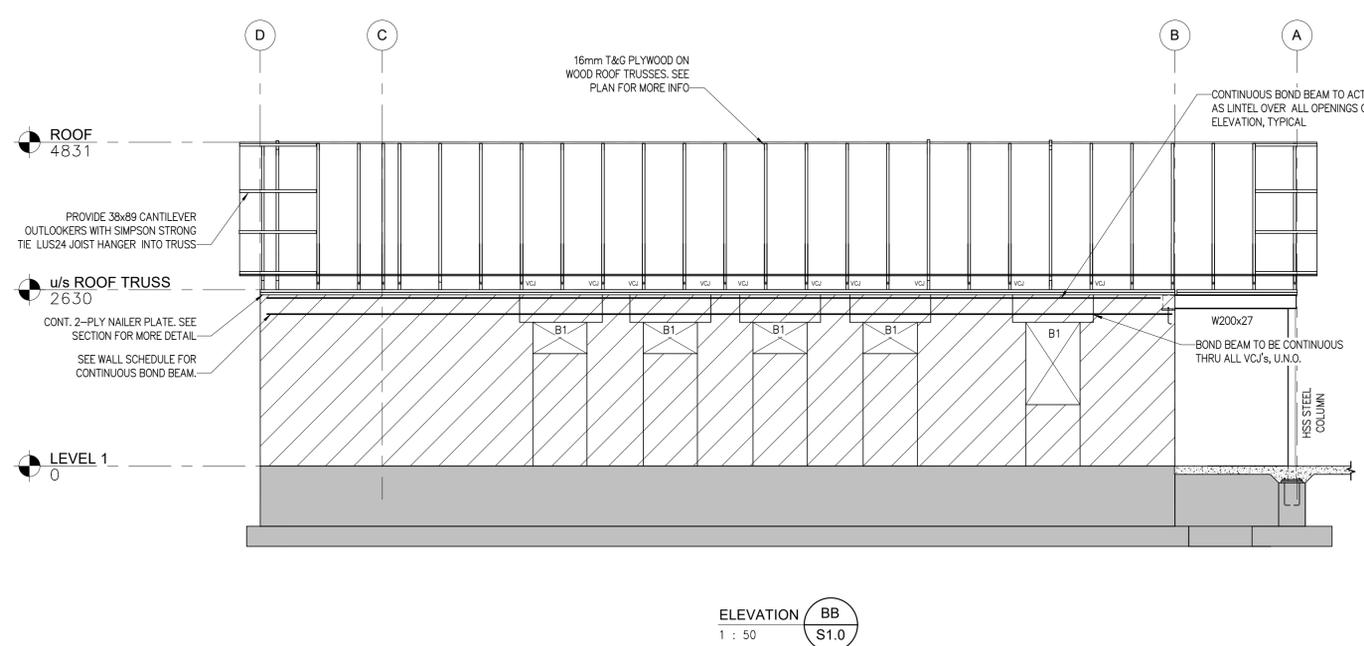
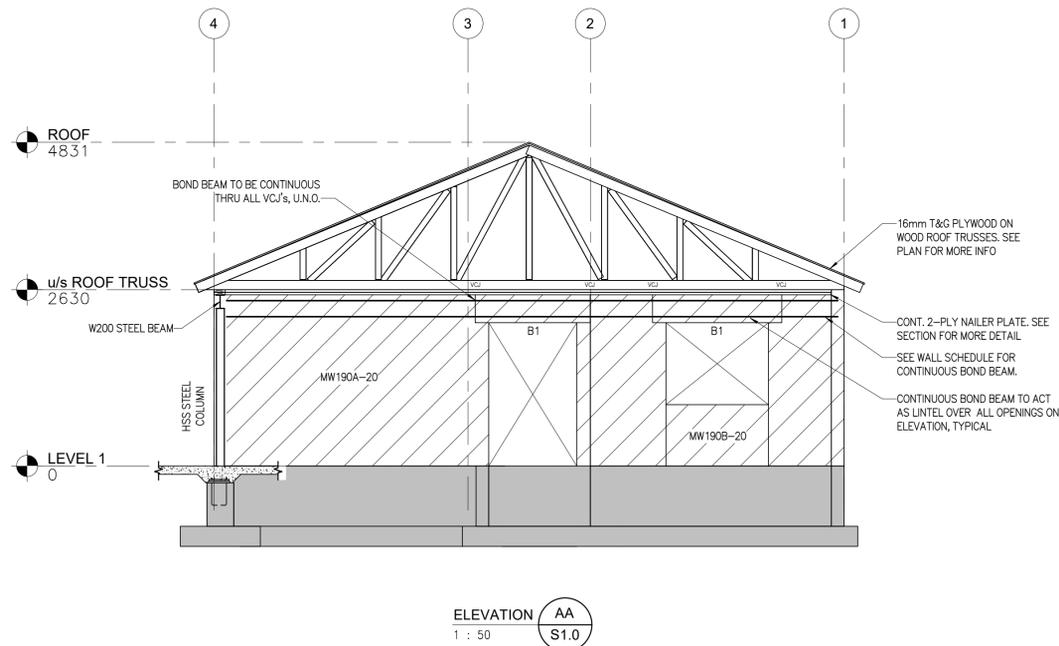
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#	Date	Revision	By
2	FEB 20, 26	ISSUED FOR PERMIT/TENDER	
1	DEC 5, 25	COORDINATION	

PORT GLASGOW TRAILER PARK SEASONAL OFFICE AND SHOWER FACILITY
8650 Furnival Rd, Rodney, ON N0L 2C0
Client: MUNICIPALITY OF WEST ELGIN
Project No.: 25286

SCHEDULES	
Scale	1 : 100
Drawn By	AV
Reviewed By	PSR
Revision No.	2
Plot Date	2026-02-20

Drawing No. **S2.1**



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1	DEC 5, 25	COORDINATION	
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Client: MUNICIPALITY OF WEST ELGIN
Project No.: 25286

ELEVATIONS

Scale: 1 : 50
Drawn By: AV
Reviewed By: PSR
Revision No.: 2
Plot Date: 2026-02-20



Drawing No.

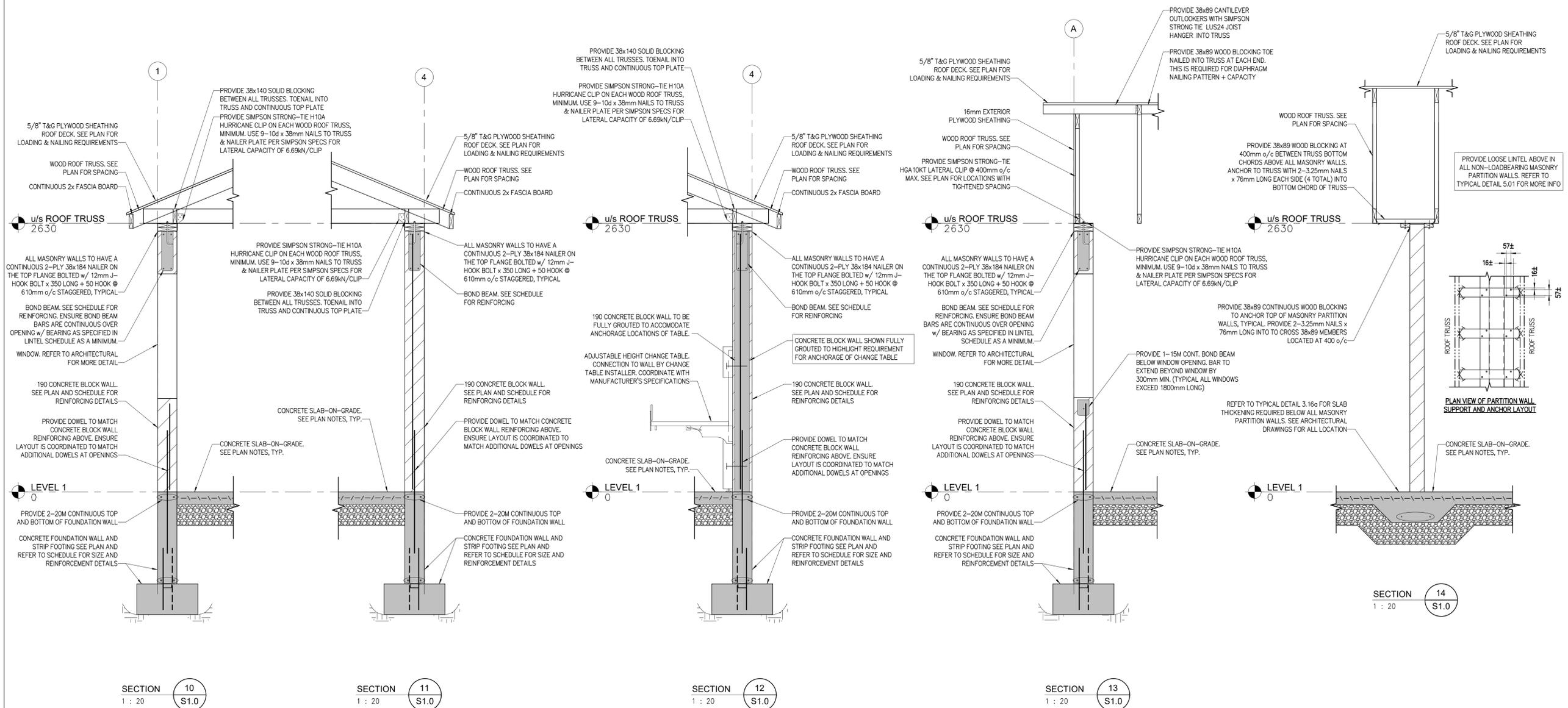
S3.1



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PORT GLASGOW TRAILER PARK SEASONAL OFFICE AND SHOWER FACILITY
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 Client: MUNICIPALITY OF WEST ELGIN
 Project No.: 25286

SECTIONS

Scale: 1 : 20
 Drawn By: AV
 Reviewed By: PSR
 Revision No.: 2
 Plot Date: 2026-02-20



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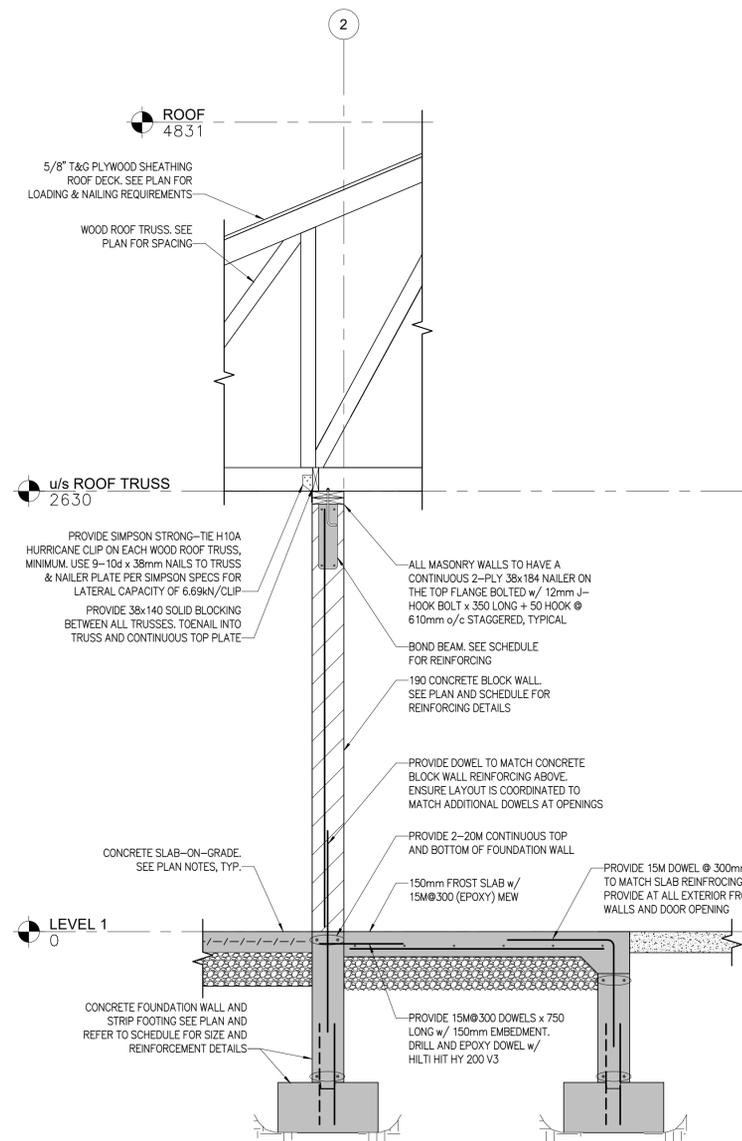
S4.1



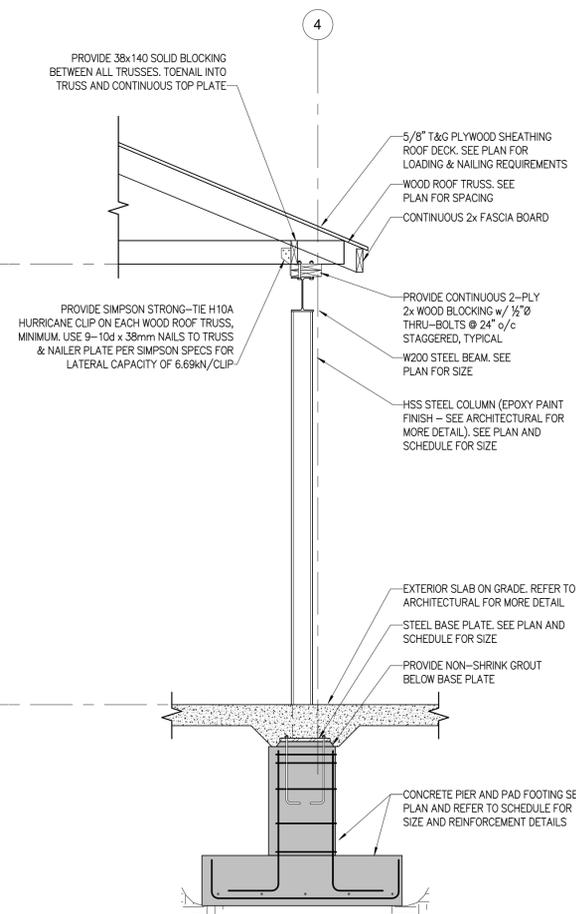
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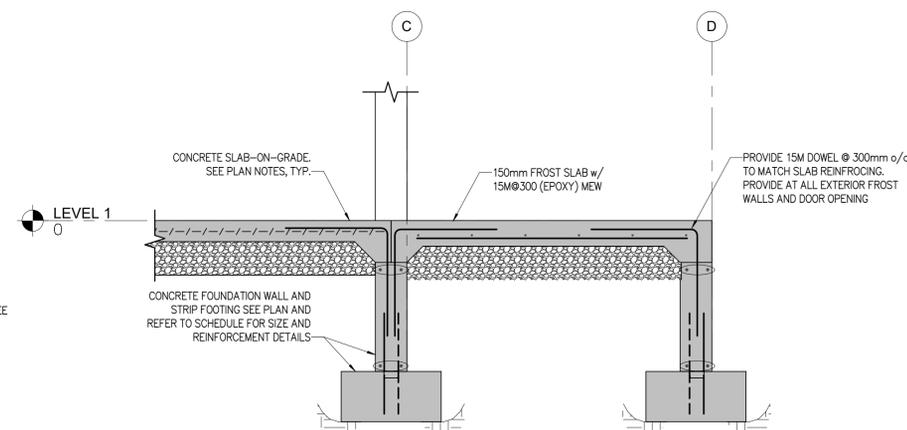
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SECTION 20
1 : 20 S1.0



SECTION 21
1 : 20 S1.0



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2	FEB 20, 26	ISSUED FOR PERMIT/TENDER	



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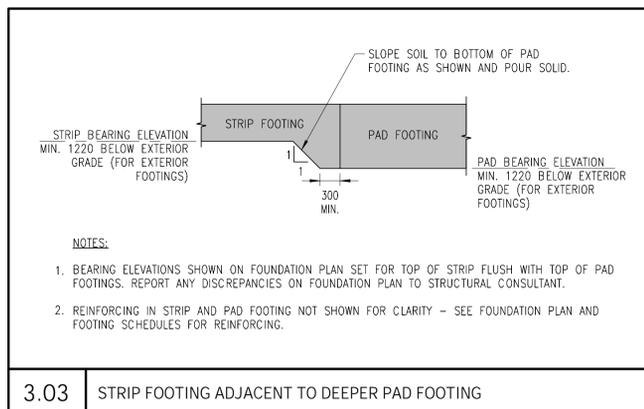
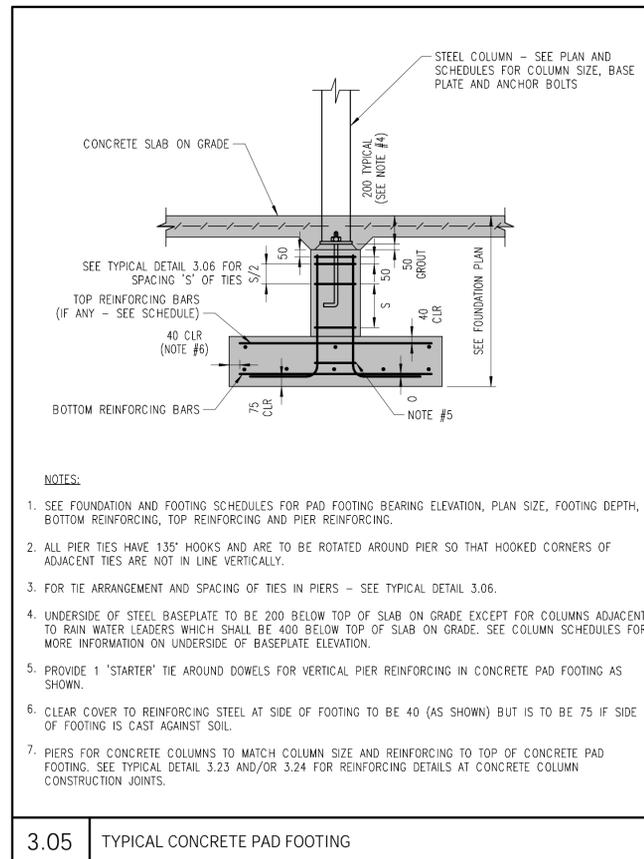
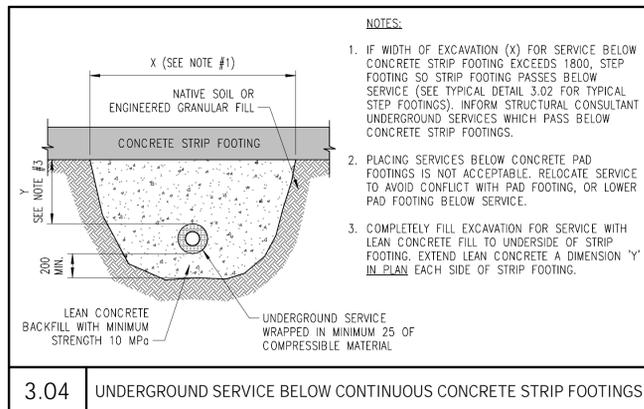
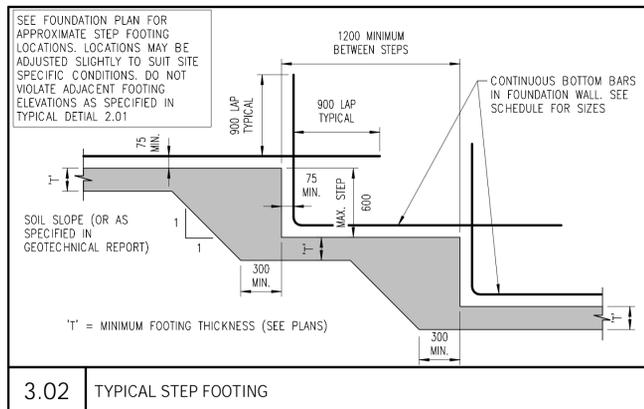
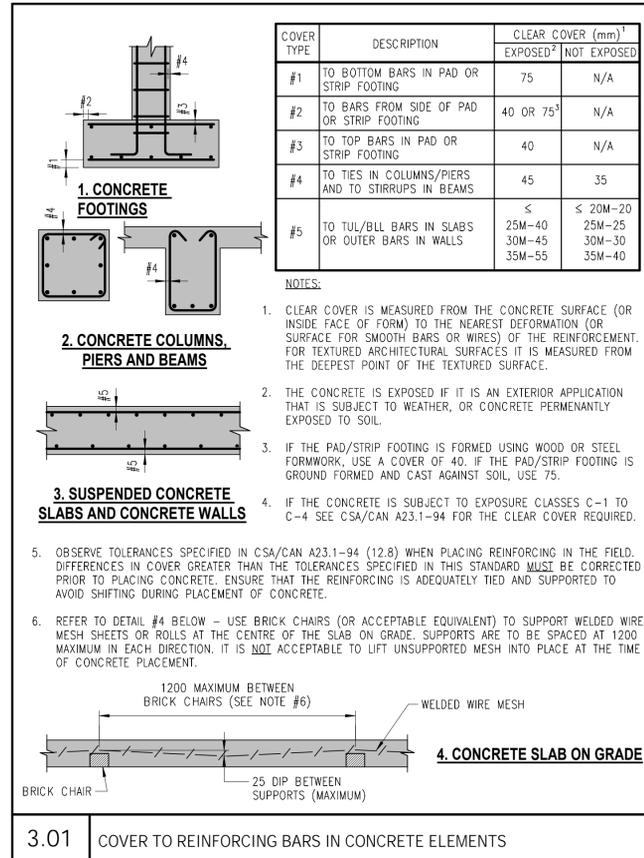
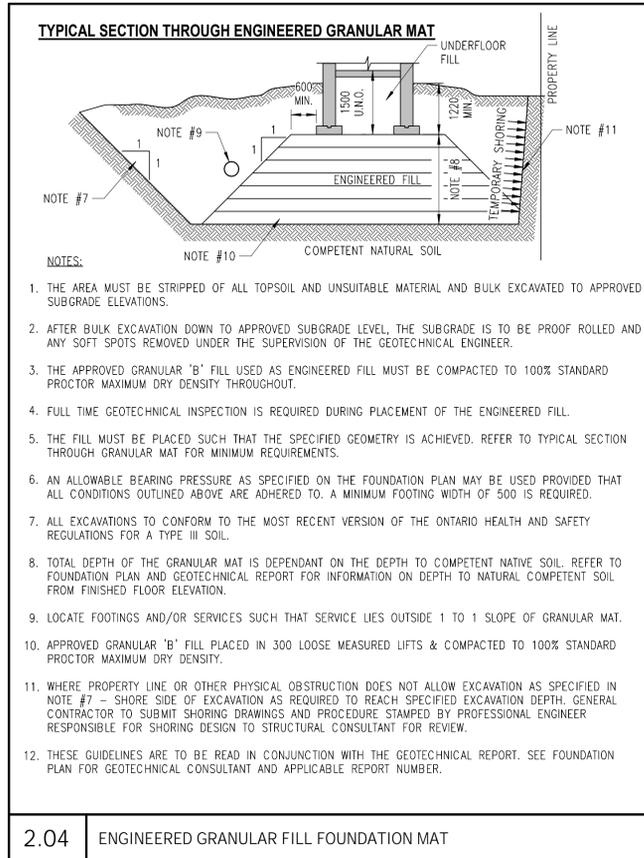
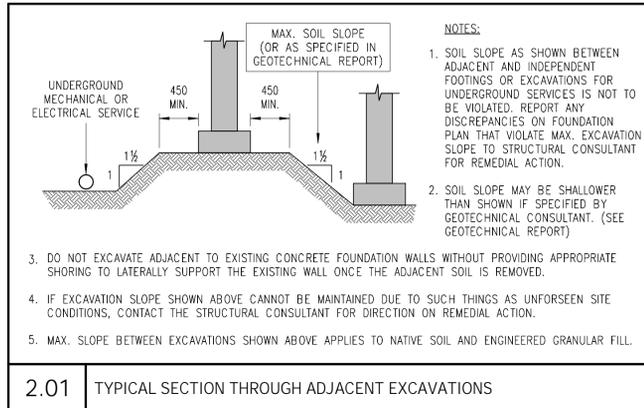
SECTIONS

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Drawing No.

S4.2



2	FEB 20, 26	ISSUED FOR PERMIT/TENDER	
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PORT GLASGOW TRAILER PARK SEASONAL OFFICE AND SHOWER FACILITY
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Project No. 25286

TYPICAL DETAILS

Scale: 1:10
Drawn By: AV
Reviewed By: PSR
Revision No. 2
Plot Date: 2026-02-20

WELD PLATE. SEE PLANS, AND SCHEDULES FOR SIZE AND LOCATIONS

IF COLUMN TIES ARE LOCATED WITH A HORIZ. CLEARANCE OF MORE THAN 150 FROM WELD PLATE ANCHORS PROVIDE ADDITIONAL 10M TIES SHOWN DOTTED COMPLETE WITH TWO

EXTRA 15M BARS TO ANCHOR OPPOSITE SIDE OF TIES AS SHOWN

PROVIDE TWO EXTRA 15M BARS TIGHT TO ANCHOR LEGS EXTENDED 600 ABOVE AND BELOW WELD PLATE. EXTRA BARS ARE ONLY REQUIRED IF COLUMN VERTICALS ARE LOCATED MORE THAN 3" CLEAR FROM 15M BAR. SEE NOTE 8 BELOW.

SPACE ALL COLUMN TIES AT 100 O.C. STARTING AT 200 ABOVE WELD PLATE TO 200 BELOW PLATE. RESUME SPACING AS INDICATED IN TABLE FOR REMAINDER OF COLUMN. SEE NOTE 8

MIN. 305 LAP WITH 135° HOOKS (SEE NOTE #7)

CIRCULAR COLUMNS

NOTES:

- WHEN VERTICAL REINFORCING HAS CLEAR SPACING "b" > 150, PROVIDE TIE SHOWN DASHED
- PROVIDE A FULL TIE AT EVERY OTHER VERTICAL BAR (MINIMUM).
- FOR VERTICAL TIE SPACING AND SIZE, SEE TABLE.
- CLEAR DISTANCE BETWEEN VERTICALS SHALL NOT BE LESS THAN:
 - 1.4 TIMES THE BAR DIAMETER
 - 1.4 TIMES THE MAXIMUM AGGREGATE SIZE
 - 32mm
- ALTERNATE TIE ARRANGEMENTS ARE ACCEPTABLE, SUBJECT TO APPROVAL BY STRUCTURAL CONSULTANT.
- TIE ARRANGEMENT FOR COLUMNS WITH > 16 VERTICALS IS SIMILAR.
- TIE FOR CIRCULAR COLUMNS MAY BE LAPPED AND WELDED TO DEVELOP TENSILE CAPACITY OF THE BAR IN LIEU OF DETAIL SHOWN.
- EXTRA REINFORCING FOR WELD PLATES SHOWN ON COLUMN WITH 4 VERTICALS IS TYPICAL FOR ALL COLUMNS. SEE TYPICAL DETAIL 3.40 FOR EXTRA REINF. FOR WELD PLATES IN CONCRETE WALLS.

VERTICAL TIE SPACING (mm)		
VERTICAL BAR SIZE	SPACING (lc ≤ 50MPa)	SPACING (lc > 50MPa)
15M	10@250	10@190
20M	10@300	10@225
25M	10@400	10@250
30M	10@460	10@275
35M	10@460	10@400
45M	10@460	10@400
55M	10@460	10@400

3.06 TIE ARRANGEMENT IN CONCRETE COLUMNS AND PIERS

IF DOWELS ARE USED, USE LAP LENGTH SHOWN IN TABLE 'A'

STD. HOOK (SEE RSIC 3rd ED.) 300 MIN.

IF DOWELS ARE USED, USE LAP LENGTH SHOWN IN TABLE 'A' (EACH DIRECTION)

PROVIDE 50x100 KEYWAY WHERE CONSTRUCTION JOINT IS USED (TYPICAL)

IF DOWELS ARE USED, USE LAP LENGTH SHOWN IN TABLE 'A'

NOTES:

- CONSTRUCTION JOINTS IN FOUNDATION WALLS REQUIRE WATERSTOPS WHERE SLAB ON GRADE IS LOWER THAN EXTERIOR GRADE. (SEE TYPICAL DETAIL 3.11)
- PROVIDE 50mmx100mm KEYWAY AT ALL CONSTRUCTION JOINTS AS SHOWN.

BAR SIZE	MINIMUM LAP LENGTH
10M	400
15M	605
20M	910
25M	1225
30M	1375

3.09 TYPICAL HORIZONTAL CORNER REINFORCING DETAILS FOR WALLS

1. OPENING IN CONCRETE WALL

2. OPENING IN FOUNDATION WALL FOR ELECTRICAL DUCT BANK

FOR OPENINGS LARGER THAN 1200mm. SEE PLANS AND DETAILS FOR REQUIRED REINFORCING

CONTINUOUS TOP BARS

1-15M x 1200 LONG MIDDLE

1-15M EACH FACE

40 MIN.

1200 MAX.

CONTINUOUS BOTTOM BARS

CONCRETE STRIP FOOTING

DO NOT PLACE BARS BELOW OPENING FOR ELECTRICAL DUCT BANK

STD. HOOK (SEE RSIC 3rd ED.) 300 MIN.

3.10 TYPICAL OPENING IN CONCRETE WALL

SAWCUT JOINT

SAWCUT DEPTH 1/5

T = THICKNESS OF SLAB ON GRADE

DISCONTINUE W.W.F. REINFORCING 75 EACH SIDE OF SAWCUT

POURED JOINT

FIRST POUR SECOND POUR

PAINT VERTICAL FACE OF FIRST POUR WITH OIL

T = THICKNESS OF SLAB ON GRADE

DISCONTINUE W.W.F. REINFORCING 75 EACH SIDE OF COLD JOINT

NOTES:

- USE ONE OR THE OTHER DETAIL AS THE CONTROL JOINT WHERE INDICATED THUS "CJ" ON THE PLAN.
- SAWCUTS MUST BE COMPLETED WITHIN 6 TO 18 HOURS OF PLACING CONCRETE.
- AFTER SLAB HAS CURED FOR ONE MONTH, REMOVE ALL DEBRIS FROM SAWCUT JOINTS AND FILL WITH MORTAR CONTAINING CEMENT, SAND AND A LATEX BONDING AGENT, OR AS NOTED.
- SAWCUT SLAB ON GRADE AROUND COLUMNS AS INDICATED BELOW. OTHER PATTERNS MAY BE ACCEPTABLE, BUT MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- SAWCUT JOINTS IN SLAB ON GRADE SHOULD NOT EXCEED THE FOLLOWING SPECIFIED SPACING:

SLAB THICKNESS (T)	MAXIMUM SPACING
100	30 x slab thickness
125 OR GREATER	35 x slab thickness or 6000 whichever is less

W-COLUMNS

HSS OR CONCRETE COLUMNS

3.15 TYPICAL FLOOR SLAB CONTROL JOINT DETAIL

CONTROL JOINT NEAR TO, OR ADJACENT WALL

THICKEN SLAB AT EACH NON-LOAD BEARING WALL SUPPORTED ON CONCRETE SLAB ON GRADE (SEE FOUNDATION PLAN)

CONCRETE BLOCK PARTITION WALL. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS

STEEL OR CONCRETE STAIRS (SEE ARCHITECTURAL DRAWINGS)

SAW CUT CONTROL JOINT. CUT EXTRA DEEP 75 MINIMUM

SLAB ON GRADE (SEE FOUNDATION PLAN)

6mm PLYWOOD OR CELLULAR PLASTIC SIGN BOARD FORM. WRAP VAPOUR BARRIER OVER & TIGHT TO FORM

2-15M CONT.

THICKEN SLAB AT EACH NON-LOAD BEARING WALL SUPPORTED ON CONCRETE SLAB ON GRADE (SEE FOUNDATION PLAN)

CONCRETE BLOCK PARTITION WALL. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS

NOTES:

- COORDINATE LOCATION OF NON-LOAD BEARING BLOCK WALLS AND STAIR BEARING LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- EXTEND SLAB THICKENING 300 PAST EACH SIDE OF STAIR BEARING LOCATIONS AND DISCONTINUOUS ENDS OF BLOCK WALLS.

3.16a TYPICAL SLAB ON GRADE THICKENINGS

1. EXTERIOR VENEER WALL WITH FERRO-TIES

WALL SIZE

CONCRETE BACK-UP BLOCK

STANDARD CONTINUOUS TWO WIRE LADDER OR TRUSS TYPE MASONRY REINFORCING LAID IN A BED OF MORTAR IN BACK-UP BLOCK ONLY. ALTERNATE WITH COURSES CONTAINING FERRO TIES.

FOR STACK BOND VENEERS 90mm OR LESS PROVIDE ONE 5mm DIA. CONT. H.D.G./S.S. WIRE IN VENEER AT 400 O.C. VERT. PROVIDE TWO WIRE REINF. FOR VENEERS OVER 90mm WIDE

FERRO TIES SPACED AT 400 o/c VERTICAL SPACING. INVERT FERRO TIE BODY IF REQUIRED TO ENGAGE VENEER BED JOINT. REFER TO TYP. DETAIL 4.04 FOR FERRO TIE

REFER TO SPECIFICATIONS, OR SCHEDULES, IF CROSS WIRE ARRANGEMENT TO REPRESENT TRUSS

2. EXTERIOR VENEER WALL WITH LADDER TYPE REINF. TYING BRICK VENEER

WALL SIZE

CONCRETE BACK-UP BLOCK

STANDARD CONTINUOUS THREE WIRE LADDER OR TRUSS TYPE MASONRY REINFORCING LAID IN A BED OF MORTAR

2-WIRE LADDER TYPE REINFORCING

REFER TO SPECIFICATIONS, OR SCHEDULES, IF CROSS WIRE ARRANGEMENT TO REPRESENT TRUSS

3. SINGLE WYTHE EXTERIOR OR INTERIOR WALLS

- AT MULTI WYTHE WALLS WITH MASONRY VENEER USE DETAIL 1 ABOVE UNLESS SPECIFICALLY NOTED OTHERWISE.
- DETAIL #2 TO BE USED ONLY IF VENEER WYTHE COURSES WITH BACK-UP BLOCK. SUBMIT DETAILED BRICK/BLOCK COURSING SHOP DRAWINGS FOR REVIEW BEFORE STARTING BLOCK WALL CONSTRUCTION.
- ALL HORIZONTAL REINFORCING TO HAVE MINIMUM CORROSION PROTECTION CONSISTING OF HOT DIPPED GALVANIZING AFTER FABRICATION TO A.S.T.M. A-153-B2 STANDARD. REFER TO SPECIFICATIONS IF STAINLESS STEEL REQUIRED.
- UNLESS NOTED OTHERWISE MASONRY REINFORCING SHALL BE 9 GAUGE 2-WIRE CONTINUOUS LADDER TYPE. (REFER TO LOAD BRG WALL SCHEDULE AND TYPICAL DETAILS FOR MINIMUM WIRE SIZES AND IF TRUSS TYPE WIRE REINFORCING IS REQUIRED IN SEISMIC ZONES.)
- THE OVERALL WIDTH OF THE MASONRY REINFORCING SHALL BE APPROX. 65 LESS THAN THE THICKNESS OF THE WALL. THE CROSS WIRES SHOULD NOT HAVE A DIP.
- LAP THE REINFORCING 200 AT SPLICES (300 FOR PLAIN WIRE).
- USE PREFABRICATED CORNERS AND TEES IN ALL MASONRY WALL CORNERS AND INTERSECTIONS.
- PROVIDE EXTRA LAYERS OF MASONRY REINF. IN FIRST COURSE ABOVE AND BELOW ALL BLOCK OPENINGS.

3.40 TYPICAL LAP DETAIL FOR CONTINUOUS TOP REBAR AT PIER AND DOOR DEPRESSIONS IN WALLS

CONT. TOP BARS

75 CIR. TYP.

WALL DEPRESSION AT DOOR, PIER, ETC.

TOP OF FOUNDATION WALL

TABLE 'A' LAP

LAP BARS TO MATCH TOP BARS

BAR SIZE	MINIMUM LAP LENGTH
10M	400
15M	605
20M	910
25M	1225
30M	1375

3.39 TYPICAL LAP DETAIL FOR CONTINUOUS TOP REBAR AT PIER AND DOOR DEPRESSIONS IN WALLS

WALL THICKNESS	IMPORTANCE FACTOR, I _e : NORMAL (1.0) OR HIGH (1.3)		SITE CLASS: SOFT SOIL (E) OR OTHER SOIL (F)	
	VERTICAL REINFORCING	HORIZONTAL REINFORCING	VERTICAL REINFORCING	HORIZONTAL REINFORCING
140 BLOCK	10M @ 1200 c/c HORIZ (EVERY 6th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 400 c/c VERT (EVERY OTHER COURSE)	10M @ 1200 c/c HORIZ (EVERY 6th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 400 c/c VERT (EVERY OTHER COURSE)
190 BLOCK	10M @ 1200 c/c HORIZ (EVERY 6th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 400 c/c VERT (EVERY OTHER COURSE)	15M @ 1200 c/c HORIZ (EVERY 6th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 400 c/c VERT (EVERY OTHER COURSE)
240 BLOCK	15M @ 1200 c/c HORIZ (EVERY 6th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 400 c/c VERT (EVERY OTHER COURSE)	15M @ 1016 c/c HORIZ (EVERY 5th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 200 c/c VERT (EVERY COURSE)
290 BLOCK	15M @ 1016 c/c HORIZ (EVERY 5th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 200 c/c VERT (EVERY COURSE)		

3.40 TYPICAL LAP DETAIL FOR CONTINUOUS TOP REBAR AT PIER AND DOOR DEPRESSIONS IN WALLS

IMPORTANCE FACTOR, I_e:
POST DISASTER (1.5)

WALL THICKNESS

VERTICAL REINFORCING

HORIZONTAL REINFORCING

140 BLOCK	10M @ 1200 c/c HORIZ (EVERY 6th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 400 c/c VERT (EVERY OTHER COURSE)
190 BLOCK	15M @ 1200 c/c HORIZ (EVERY 6th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 400 c/c VERT (EVERY OTHER COURSE)
240 BLOCK	15M @ 1200 c/c HORIZ (EVERY 6th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 400 c/c VERT (EVERY OTHER COURSE)
290 BLOCK	15M @ 1016 c/c HORIZ (EVERY 5th CORE)	STANDARD BLOK-LOK (LADDER) TYPE REINFORCING @ 200 c/c VERT (EVERY COURSE)

3.40 REINFORCING FOR NON-LOAD BEARING CONCRETE BLOCK WALLS IN SEISMIC ZONES (LONDON)

- NON-LOAD BEARING MASONRY WALLS THAT ARE SHOWN ON THE ARCHITECTURAL PLANS BUT ARE NOT SHOWN ON THE STRUCTURAL FRAMING PLANS. REINFORCE THESE WALLS ACCORDING TO THE SCHEDULE ABOVE. FOR MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS, READ THE FRAMING PLANS IN CONJUNCTION WITH THE LOAD BEARING MASONRY WALL SCHEDULE TO DETERMINE REINFORCING FOR THESE WALL
- FULLY GROUT ALL CORES CONTAINING VERTICAL REINFORCING.
- SEE TYPICAL DETAIL 4.03 FOR DETAILS RELATING TO PLACEMENT OF HORIZONTAL REINFORCING.
- FOR VERTICAL REINFORCING BARS, LAP BARS 610 MINIMUM AT BAR SPLICES AND PROVIDE MECHANICAL SPLICE TO DEVELOP 125% OF THE BAR STRENGTH IN TENSION.
- PROVIDE 1-15M VERTICAL FULL HEIGHT IN THE CORE ADJACENT TO BEARING POINT OF LINTELS OVER ALL ROUGH OPENINGS IN NON-LOAD BEARING WALLS (SEE TYPICAL DETAIL 4.01 AND/OR 5.01). THESE BARS ARE PLACED IN ADDITION TO THE VERTICAL BARS INDICATED IN THE SCHEDULE ABOVE.

4.03 REINFORCING FOR NON-LOAD BEARING CONCRETE BLOCK WALLS IN SEISMIC ZONES (LONDON)

#	Date	Revision	By
2	FEB 20, 26	ISSUED FOR PERMIT/TENDER	
1	DEC 12, 25	COORDINATION	



PORT GLASGOW TRAILER PARK SEASONAL OFFICE AND SHOWER FACILITY

8650 Furnival Rd, Rodney, ON N0L 2C0
Client: MUNICIPALITY OF WEST ELGIN
Project No. 25286

TYPICAL DETAILS

Scale	1 : 10
Drawn By	AV
Reviewed By	PSR
Revision No.	2
Plot Date	2026-02-20

Drawing No. **S5.2**

WALL THICKNESS	CLEAR SPAN OF ROUGH MASONRY OPENING				DETAIL
	UP TO 1220	1221 to 1800	1801 to 2360	2361 to 3050	
90 BLOCK 90 VENEER	L90x90x6	L100x90x8	L125x90x8	L125x90x10	LLV
140 BLOCK	2-L65x65x6	2-L90x65x6	2-L90x65x8	2-L90x65x10	65 LEGS HORIZ.
190 BLOCK	2-L90x75x6	2-L90x90x6	2-L100x90x8	2-L125x90x10	90 LEGS HORIZ.
240 BLOCK	L100x75x6 + L125x75x6	L100x100x6 + L125x75x6	L100x100x8 + L125x90x8	L150x100x8 + L125x125x8	100 AND 125 LEGS HORIZ.
290 BLOCK	3-L90x75x6	3-L90x90x6	3-L100x90x8	3-L125x90x10	90 LEGS HORIZ.

1. IT IS THE RESPONSIBILITY OF THE STRUCTURAL STEEL CONTRACTOR TO READ THIS SCHEDULE IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS TO DETERMINE SIZE AND LOCATION OF LINTELS IN NON-LOAD BEARING WALLS. OPENINGS IN NON-LOAD BEARING WALLS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

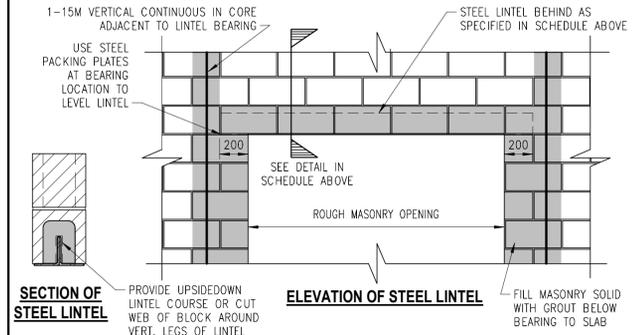
2. WELD BACK TO BACK ANGLES AT 400 c/c ON TOP AND BOTTOM OF LINTEL. FIRST WELD TO BE 75 FROM ENDS OF ANGLES.

3. ALL EXTERIOR LINTELS SUPPORTING BRICK VENEER TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.

4. CONNECT ALL LINTELS TO COLUMNS WHEN THERE IS LESS THAN 300 BETWEEN EDGE OF ROUGH OPENING AND STEEL COLUMN FACE.

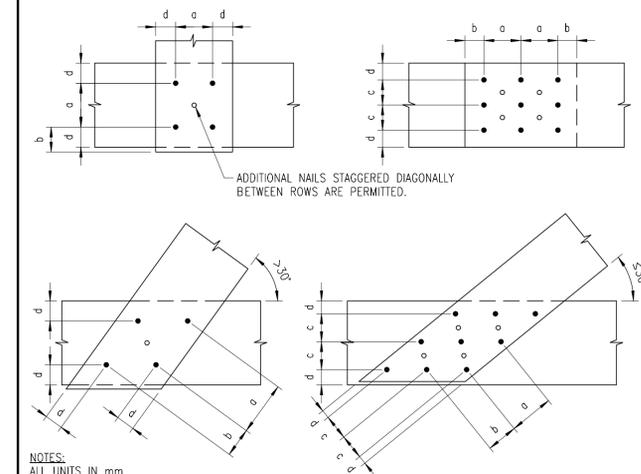
5. FILL BLOCKS AROUND STEEL LINTELS IN CONCRETE BLOCK WALLS SOLID WITH GROUT.

6. WHEN 600 OR LESS TO NEXT ROUGH OPENING, PLACE 2-15M VERTICAL IN CENTRE CORE OF PIER BETWEEN OPENINGS AND FILL PIER SOLID.

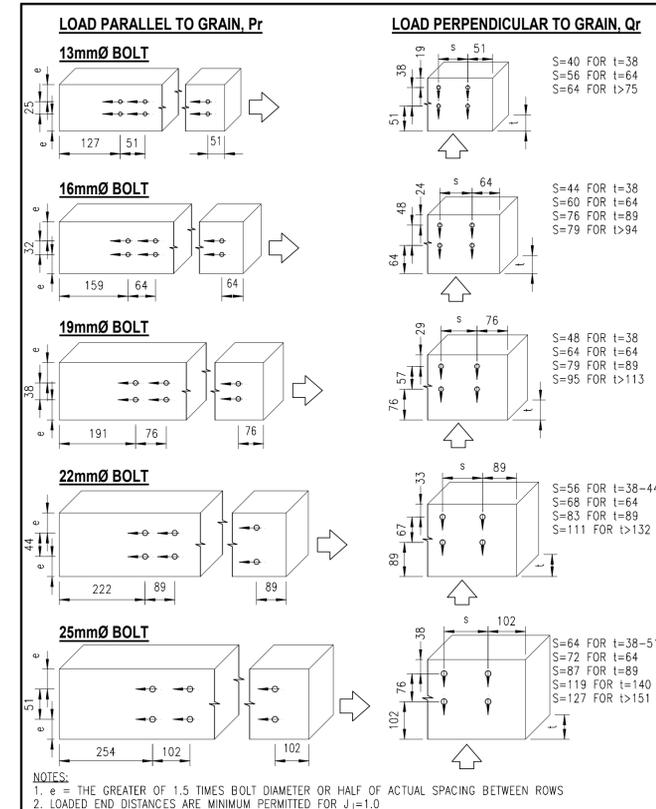


5.01 STRUCTURAL STEEL LINTELS FOR NON-LOAD BEARING CONCRETE BLOCK WALLS AND BRICK VENEER

TYPE	LENGTH	D-FIR-L HEM-FIR				S-P-F NORTHERN			
		MIN. SPACING PARALLEL TO GRAIN a	MIN. END DISTANCE TO GRAIN b	MIN. END PERP. TO GRAIN c	MIN. EDGE DISTANCE TO GRAIN d	MIN. SPACING PARALLEL TO GRAIN a	MIN. END DISTANCE TO GRAIN b	MIN. SPACING PERP. TO GRAIN c	MIN. EDGE DISTANCE TO GRAIN d
COMMON WIRE NAILS	64	65	49	33	17	52	39	26	13
	76	74	55	37	19	59	44	30	15
	89	82	61	41	21	65	49	33	17
	102	98	74	49	25	79	59	39	20
	127	118	89	59	30	95	71	48	24
	152	141	106	71	35	113	85	57	28
COMMON SPIKES	102	128	96	64	32	103	77	52	26
	152	153	115	77	39	122	92	61	31
COMMON SPIRAL NAILS	64	56	42	28	14	45	34	23	12
	76	62	47	31	16	50	38	25	13
	89	78	58	39	20	62	47	31	16
	102	87	65	44	22	70	52	35	18
	127	98	74	49	25	79	59	39	20



6.03 MINIMUM SPACING, END AND EDGE DISTANCES FOR NAILS AND SPIKES



6.04 MINIMUM SPACING, END AND EDGE DISTANCES FOR BOLTED CONNECTIONS

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1	DEC 12, 25	COORDINATION	
#	Date	Revision	By



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TYPICAL DETAILS

Scale 1 : 10
Drawn By AV
Reviewed By PSR
Revision No. 2
Plot Date 2026-02-20

Drawing No. **S5.3**

LEGEND

PIPE	
	EXISTING ITEM TO REMAIN
	EXISTING ITEM TO DEMOLISH
	COLD WATER (DOMESTIC)
	HOT WATER (DOMESTIC)
	HOT WATER RETURN (DOMESTIC)
	SANITARY DRAINAGE
	STORM DRAINAGE
	VENT (PLUMBING)
	DRAIN
	CONDENSATE DRAIN
	NATURAL GAS
	FUEL OIL DISCHARGE
	FUEL OIL GAUGE
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	FUEL OIL VENT
	HOT WATER SUPPLY (HEATING)
	HOT WATER RETURN (HEATING)
	GLYCOL HEATING SUPPLY
	GLYCOL HEATING RETURN
	HUMIDIFICATION
	REFRIGERANT SUCTION
	REFRIGERANT DISCHARGE
	REFRIGERANT LIQUID
	FIRE WATER SUPPLY
	SPRINKLER
	COMBINATION STAND PIPE
	DRY STAND PIPE
	WET STAND PIPE

FITTING & FP

	CAP
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	ELBOW, 45 DEGREES
	ELBOW, 90 DEGREES
	TEE, OUTLET DOWN
	TEE, OUTLET UP
	TEE
	UNION
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	STRAINER
	STRAINER, BLOW OFF
	DROP, PIPE
	RISE, PIPE
	GUIDE, ALIGNMENT
	ANCHOR
	JOINT, EXPANSION
	CONNECTION, FLEXIBLE
	FLANGE, BLIND
	SLEEVE, PIPE
	ARROW, FLOW DIRECTION
	CLEANOUT, WALL
	CLEANOUT, FLOOR
	DRAIN, FLOOR
	DRAIN, ROOF
	OUTLET, GAS, OXY, VAC, N20
	VALVE, BALL
	VALVE, BUTTERFLY
	VALVE, GATE
	VALVE, GLOBE
	VALVE, ANGLE
	VALVE, PLUG
	VALVE, NEEDLE
	VALVE, LOCK SHIELD
	VALVE, COCK
	VALVE, TRIPLE DUTY
	VALVE, CHECK
	VALVE, SAFETY/RELIEF
	VALVE, PRESSURE REDUCING
	VALVE, SOLENOID / THERMOSTATIC
	VALVE, CONTROL 2 WAY PNEUMATIC
	VALVE, CONTROL 3 WAY PNEUMATIC
	VALVE, CONTROL 3 WAY ELECTRIC
	VALVE, FLOW CONTROL
	VALVE, QUICK OPENING
	VALVE, SAFETY
	VALVE, FLOAT
	GAGE, PRESSURE WITH COCK
	THERMOMETER
	THERMOMETER WELL
	AIR ELIMINATOR
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	METER
	PREVENTER, BACKFLOW

ABBREVIATIONS

A	AMP, AMPERES, AIR (COMPRESSED)	DIFF	DIFFERENCE, DELTA	INCL	INCLUDING, INCLUSIVE	RPM	REVOLUTIONS PER MINUTE
ABS	ABSOLUTE	DIM	DIMENSION	INSUL	INSULATION, INSULATED	RS	ROOF SUMP, REFRIGERANT SUCTION
AC	AL.T. CURRENT, AIR COMPRESSOR	DISC	DISCONNECT	INT	INTERIOR, INTERNAL	S	SOUTH, SOLENOID
ACU	AIR CONDITIONING UNIT	DISCH	DISCHARGE	INV	INVERT	SA	SUPPLY AIR, SOUND ATTENUATOR
AD	ACCESS DOOR	DIV	DIVISION	IPS	IRON PIPE SIZE	SAN	SANITARY DRAIN/SEWER
ADDL	ADDITIONAL	DN	DOWN	ISD	IONIZATION SMOKE DETECTOR	SCFM	(STANDARD) CUBIC FEET PER MINUTE
ADDM	ADDENDUM	DO	DIGITAL OUTPUT	JC	JANITOR'S CLOSET	SCHED	(SCHEDULE) CUBIC FEET PER MINUTE
ADDN	ADDITION	DOM	DOMESTIC	KW	KILOWATTS	SCIW	SOFT COLD WATER
ADJ	ADJUSTABLE	DS	DOWNSPOUT, DISCONNECT	L	LENGTH, LONG, LOUVER	SD	SMOKE DAMPER, SPLITTER DAMPER
A-E	ARCHITECT-ENGINEER	DT	DRAIN TILE	LAB	LABORATORY	SDA	SUPPLY DIFFUSER TYPE A
AF	AIR FOIL	DWC	DRINKING WATER COOLER	LAT	LEAVING AIR TEMPERATURE	SE	STATIC FAN EFFICIENCY, SOUTHEAST
AFF	ABOVE FINISHED FLOOR	DWG	DRAWING	LAV	LAVATORY	SECT	SECTION
AFS	AIR FLOW SWITCH	DWR	DRINKING WATER RETURN	LB/LBS	POUND POUNDS	SENS	SENSIBLE
AHU	AIR HANDLING UNIT	DWS	DRINKING WATER SUPPLY	LP	LOW PRESSURE, LIGHTING PANEL	SF	SUPPLY FAN, SAFETY FACTOR
AI	ANALOG INPUT	DX	DIRECT EXPANSION	LR	LONG RADIUS	SF	SERVICE FACTOR
ALT	ALTERNATE, ALTITUDE	EA	EXHAUST AIR, EACH	LWT	LEAVING WATER TEMPERATURE	SGA	SUPPLY GRILLE TYPE A
AMB	AMBIENT	EAT	ENTERING AIR TEMPERATURE	M	METER, MOTOR	SH	SHOWER, SENSIBLE HEAT
AMS	AIR MEASURING STATION	ECC	ECCENTRIC	MAN	MANUAL	SHT	SHEET
ANSI	AMERICAN NAT. STANDARDS INSTITUTE	ECON	ECONOMIZER	MATL	MATERIAL	SIM	SIMILAR
AO	ANALOG OUTPUT	EEW	EMERGENCY EYE WASH	MAX	MAXIMUM	SM	SHEET METAL
APD	AIR PRESSURE DROP	EF	EXHAUST FAN	MBH	'000 BRITISH THERMAL UNITS / HOUR	SP	STATIC PRESSURE
APPROX	APPROXIMATE	EFF	EFFICIENCY	MC	MOTOR CONTROL	SPEC	SPECIFICATION
ARCH	ARCHITECT, ARCHITECTURAL	EGA	EHAUST GRILLE TYPE A	MCC	MOTOR CONTROL CENTER	SPR	SPRINKLER
AS	AUTOMATIC SPRINKLER	EL	ELEVATION	MECH	MECHANICAL	SQ	SQUARE
ASME	AM. SOCIETY OF MECHANICAL ENGINEERS	ELEC	ELECTRIC, ELECTRONIC	MEZZ	MEZZANINE	SR	SUPPLY RISER
ASR	AUTOMATIC SPRINKLER RISER	ELEV	ELEVATOR	MFG	MANUFACTURING	SSTL	STAINLESS STEEL
ASTM	AM. SOCIETY FOR TESTING MATERIALS	ELL	ELBOW	MFR	MANUFACTURER	ST	STORM
ATM	ATMOSPHERE	EMS	ENERGY MANAGEMENT SYSTEM	MH	MANHOLE	STA	STATION
AUTO	AUTOMATIC	ENCL	ENCLOSURE, ENCLOSED	MIN	MINIMUM, MINUTE	STD	STANDARD
AUX	AUXILIARY	ENT	ENTERING	MISC	MISCELLANEOUS	STL	STEEL
AV	AIR VENT (AUTOMATIC)	EQ	EQUAL	MM	MILLIMETER	STM	STEAM
AW	ACID WASTE	EQUIP	EQUIPMENT	MU	MAKE UP	STOR	STORAGE
B	BOILER, BRINE SUPPLY	EVAP	EVAPORATOR	MV	AIR VENT (MANUAL)	STR	STRAINER
BDD	BACKDRAFT DAMPER	EW	ENTERING WATER TEMPERATURE	N	NORTH	STRUCT	STRUCTURAL
BET	BETWEEN	EX	EXISTING	NA	NOT APPLICABLE	SUCT	SUCTION
BF	BARRIER FREE	EXH	EXHAUST	NATL	NATIONAL	SW	SWITCH
BFP	BACK FLOW PREVENTER	EXP	EXPANSION	NC	NORMALLY CLOSED, NOISE CRITERIA	SYS	SYSTEM
BHP	BRAKE HORSEPOWER	F	FAHRENHEIT, FAN	NEC	NATIONAL ELECTRICAL CODE	T	THERMOSTAT, TIME, TANK
BI	BACKWARD INCLINED / BINARY INPUT	FA	FACE AREA	NEMA	NAT. ELECT MANUFACTURERS ASSOC.	TAB	TESTING, ADJUSTING & BALANCING
BLDG	BUILDING	FC	FORWARD CURVED	NFPA	NAT. FIRE PROTECTION ASSOCIATION	TB	THRUST BLOCK
BO	BINARY OUTPUT	FD	FLOOR DRAIN, FIRE DAMPER	NIC	NOT IN CONTRACT	TCV	TEMPERATURE CONTROL VALVE
BOD	BOTTOM OF DUCT	FEC	FIRE EXTINGUISHER CABINET	NO	NORMALLY OPEN	TD	TEMPERATURE DIFFERENCE
BOP	BOTTOM OF PIPE	FEX	FIRE EXTINGUISHER	NO	NUMBER	TDH	TOTAL DYNAMIC HEAD
BTU	BRITISH THERMAL UNIT	FH	FUME HOOD	NRS	NON RISING STEM	TEMP	TEMPERATURE, TEMPORARY
BTUH	BRITISH THERMAL UNIT PER HOUR	FHC	FIRE HOSE CABINET	NTS	NOT TO SCALE	TG	TRANSFER GRILLE
C/C	CENTER TO CENTER	FLA	FULL LOAD AMPS	OA	OUTSIDE AIR	TOT	TOTAL
CAV	CONSTANT AIR VOLUME	FLEX	FLEXIBLE	OC	ON CENTER	TP	TEMPRATURE AND PRESSURE
CB	CATCH BASIN	FLR	FLOOR	OD	OUTSIDE DIAMETER	TSP	TOTAL STATIC PRESSURE
CC	COOLING COIL	FM	FACTORY MUTUAL	OS&Y	OUTSIDE SCREW AND YOKE	TSTAT	THERMOSTAT
CFH	CUBIC FEET PER HOUR	FP	FIRE PROTECTION	OSHA	OCCUPATIONAL SAFETY & HEALTH ACT	TU	TERMINAL UNIT
CFM	CUBIC FEET PER MINUTE	FBP	FIBERGLASS REINFORCED PLASTIC	OV	OUTLET VELOCITY	TX	THERMOSTATIC EXPANSION
CHL	CHILLER	FRP	FIBERGLASS REINFORCED PLASTIC	P	PUMP	TYP	TYPICAL
CHWR	CHILLED WATER RETURN	FS	FLOW SWITCH, FREEZESTAT	PD	PRESSURE DROP	UC	UNDERCUT
CHWS	CHILLED WATER SUPPLY	FSD	FIRE & SMOKE DAMPER	PERF	PERFORATED	UG	UNDERGROUND
CI	CAST IRON	FT	FOOT, FEET	PERM	PERMANENT	UH	UNIT HEATER
CIRC	CIRCLE, CIRCULAR, CIRCULATION	FVEL	FACE VELOCITY	PH	PHASE	UL	UNDERWRITERS LABORATORIES
CL	CENTER LINE	G	GRAM, GAS (NATURAL)	PHC	PREHEAT COIL	UPS	UNINTERRUPTABLE POWER SYSTEM
CLG	CEILING	GA	GAGE, GAUGE	PIV	POST INDICATOR VALVE	UR	URINAL
CO	CLEANOUT	GAL	GALLON	PLBG	PLUMBING	V	VENT, VALVE, VOLT
COEF	COEFFICIENT	GALV	GALVANIZED	PNL	PANEL	VA	VALVE, VOLT-AMPERE
COL	COLUMN	GEN	GENERAL	PP	POWER PANEL	VAC	VACUUM
CONC	CONCRETE	GI	GALVANIZED IRON	PPH	POUNDS PER HOUR	VAR	VARIABLE
COND	CONDENSATE, CONDENSER	GPD	GALLONS PER DAY	PREFAB	PREFABRICATED	VAV	VARIABLE AIR VOLUME
CONN	CONNECTION	GPH	GALLONS PER HOUR	PREP	PREPARATION	VB	VACUUM BREAKER
CONT	CONTINUATION, CONTINUOUS, CONTROL	GPM	GALLONS PER MINUTE	PRESS	PRESSURE	VD	VOLUME DAMPER
CONTR	CONTRACTOR	GR	GRADE, GRAINS	PROJ	PROJECT, PROJECTION	VEL	VELOCITY
COORD	COORDINATE	H	HIGH, HEIGHT, HUMIDIFIER, HUMIDISTAT	PROP	PROPERTY	VENT	VENTILATING, VENTILATION
CPVC	CHLORINATED POLYVINYL CHLORIDE	HB	HOSE BIBB	PRV	PRESSURE REDUCING VALVE	VERT	VERTICAL
CTR	CENTER	HC	HEATING COIL	PS	PRESSURE SWITCH	VEST	VESTIBULE
CU	COPPER, CUBIC	HD	HEAVY-DUTY, HEAD, HEAT DETECTOR	PSI	POUNDS PER SQUARE INCH	VOL	VOLUME
CU FT	CUBIC FEET	HEX	HEAT EXCHANGER, HEXAGON	PVC	POLYVINYL CHLORIDE	VOLT	VOLTAGE
CUH	CABINET UNIT HEATER	HG	MERCURY	R	RADIUS, RISE	VSD	VARIABLE SPEED DRIVE
Cv	COEFFICIENT, VALVE FLOW	HO	HUB OUTLET	R22	REFRIGERANT R22	VTR	VENT THROUGH ROOF
CW	COLD WATER, CLOCKWISE	HORIZ	HORIZONTAL, HORIZONTALLY	RA	RETURN AIR	W	WEST, WIDE, WIDTH, WATT
CWR	CONDENSER WATER RETURN	HP	HORSEPOWER, HIGH PRESSURE	RD	ROOF DRAIN, REFRIGERANT DISCHARGE	W&V	WASTE AND VENT
CWS	CONDENSER WATER SUPPLY	HR	HOUR	RECIRC	RECIRCULATION	W	WITH
D	DRAIN, DAMPER, DROP	HRU	HEAT RECOVERY UNIT	REF	REFERENCE	W/O	WITHOUT
DB	DRY BULB, DECIBEL	HTG	HEATING	REFRIG	REFRIGERANT, REFRIGERATION	WB	WET BULB
DBT	DRY BULB TEMPERATURE	HTR	HEATER	REQD	REQUIRED	WBT	WET BULB TEMPERATURE
DC	DIRECT CURRENT	HUM	HUMIDITY, HUMIDIFIER	RET	RETURN	WC	WATER CLOSET
DDC	DIRECT DIGITAL CONTROL	HVY	HEAVY	REV	REVISION, REVOLUTION	WF	WASH FOUNTAIN
DEG	DEGREE	HW	HOT WATER	RF	RETURN FAN	WG	WATER GAUGE
DEGF	DEGREES FAHRENHEIT	HWR	HOT WATER RECIRCULATION	RGA	RETURN GRILLE TYPE A	WH	WALL HYDRANT
DEMO	DEMOLISH, DEMOLITION	HZ	HERTZ FREQUENCY	RH	RIGHT HAND, RELATIVE HUMIDITY	WPD	WATER PRESSURE DROP
DEPT	DEPARTMENT	IO	INPUT/OUTPUT	RL	REFRIGERANT LIQUID	WT	WEIGHT
DET	DETAIL	ID	INSIDE DIAMETER, IDENTIFICATION	RM	ROOM	Y	YARD
DF	DRINKING FOUNTAIN	IE	INVERT ELEVATION	RO	REVERSE OSMOSIS, ROUGH OPENING	YH	YARD HYDRANT
DG	DOOR GRILLE	IN.	INCH, INCHES				
DI	DISTILLED WATER / DIGITAL INPUT						
DIA	DIAMETER						

MECHANICAL DRAWING LIST

ID	TITLE	SCALE
M100	LEGEND, ABBREVIATIONS & DRAWING LIST	NA
M200	MECHANICAL SPECIFICATIONS	NA
M201	MECHANICAL SPECIFICATIONS	NA
M300	FLOOR PLAN - PLUMBING	1:30
M301	ROOF PLAN - PLUMBING	1:30
M400	FLOOR PLAN - HVAC	1:30
M500	DETAILS AND DIAGRAMS	NA
M600	MECHANICAL SCHEDULES	NA

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Revisions

No.	Date	Description
01	DEC. 04, 2025	PROGRESS
02	FEB. 16, 2026	PERMIT/TENDER
03	FEB. 20, 2026	ISSUED FOR PERMIT/TENDER
04		
05		
06		
07		
08		
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12		
13		
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Issued to / from:

Drawn By: _____ Scale: _____

Checked By: JDP, VSM, WA _____ Date: _____

Sheet Number: HAA _____ 2026-02-20

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LEGEND, ABBREVIATIONS & DRAWING LIST

M100

project number: 25-043

MECHANICAL SPECIFICATIONS

SECTION 15000 - GENERAL SPECIFICATIONS

1.0 GENERAL

1.1 THIS GENERAL SPECIFICATION APPLIES TO ALL MECHANICAL WORK INCLUDING HVAC, PLUMBING & FIRE PROTECTION. SEE THE RESPECTIVE SECTIONS.

1.2 ALL WORK SHALL COMPLY WITH APPLICABLE CODES, REGULATIONS, ORDINANCES, STANDARDS, GOOD PRACTICE, MANUFACTURER'S RECOMMENDATIONS & PRODUCT LISTING CONDITIONS. THIS INCLUDES BUT NOT LIMITED TO ASHRAE, SMACNA, NFPA, OBC, OFC, CAN/CSA, TSSA, UL/ULC, FM, OWNERS INSURANCE REQUIREMENTS & LOCAL CODES, REGULATIONS & BYLAWS. SHOULD A CONFLICT OCCUR BETWEEN DRAWINGS, SPECIFICATIONS, CODES, REGULATIONS, ORDINANCES, STANDARDS, GOOD PRACTICE, MANUFACTURER'S RECOMMENDATIONS & PRODUCT LISTING CONDITIONS THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL.

1.3 QUALIFICATIONS: EXECUTE WORK ONLY WITH SKILLED TRADESMEN EMPLOYED BY A QUALIFIED TRADE CONTRACTORS IN ONTARIO REGULARLY ENGAGED IN THE INSTALLATION OF THEIR RESPECTIVE SYSTEMS. SUBMIT SUPERVISOR OR INSTALLER EVIDENCE OF QUALIFICATION, UPON REQUEST.

1.4 INSTALLATION SHALL BE COMPLETE AND FULLY FUNCTIONAL. PROVIDE ALL MATERIALS, EQUIPMENT, ACCESSORIES, CONSUMABLES, LABOR, SUPERVISION, TOOLS, SERVICES, ETC. AS REQUIRED.

1.5 PROVIDE THE FOLLOWING SYSTEMS AS PART OF THIS CONTRACT: HVAC, PLUMBING & FIRE PROTECTION.

1.6 ARRANGE FOR ALL REQUIRED UTILITIES, PERMITS, APPROVALS, EXAMINATION, TESTS AND INSPECTION SERVICES. PAY ALL REQUIRED FEES & CHARGES. PROVIDE ALL THE NECESSARY APPLICATIONS, DOCUMENTATION, DRAWINGS AND SPECIFICATIONS. NO WORK SHALL COMMENCE UNTIL ALL REQUIRED PERMITS, APPROVALS, ETC. ARE OBTAINED FROM UTILITIES & AUTHORITIES HAVING JURISDICTION.

1.7 PRIOR TO TENDERING, EXAMINE THE SITE, ALL DRAWINGS & SPECIFICATIONS & REPORT ALL CONFLICTS, DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION & /OR CORRECTION. NO ALLOWANCE SHALL BE MADE FOR FAILURE TO DO SO.

1.8 DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF MECHANICAL SYSTEMS AND WORK INCLUDED. DO NOT SCALE DRAWINGS. OBTAIN DIMENSIONS FROM ENGINEER'S PLANS, MANUFACTURER'S SHOP DRAWINGS AND ONSITE INSPECTIONS.

1.9 ALL PRODUCTS USED SHALL BE NEW, LEGAL FOR SALE IN THE PROVINCE, FIRST GRADE QUALITY, SUITABLE FOR THE APPLICATION AND MEET THE REQUIRED PRODUCT AND/OR MATERIAL TESTING, LISTINGS, CERTIFICATIONS, SEALS, ENERGY & WATER EFFICIENCY, ETC.

1.10 SUBSTITUTIONS: ASSUME RESPONSIBILITY FOR ALL MODIFICATIONS, COORDINATION, DELAYS, COSTS, ETC. FOR ALL TRADES AFFECTED BY PRODUCT CHANGE.

1.11 ELECTRICAL WORK: ALL WIRING AND CONDUIT FOR POWER AND CONTROL SHALL BE BY ELECTRICAL DIVISION, EXCEPT FOR WIRING, CONDUIT AND CONNECTIONS BELOW 50V WHICH ARE RELATED TO MECHANICAL SYSTEMS SHALL BE BY MECHANICAL CONTRACTOR.

1.12 SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR ALL EQUIPMENT. THE SHOP DRAWINGS SHALL INDICATE THE MANUFACTURER, MODEL, AND PHYSICAL, ELECTRICAL, MECHANICAL, AND PERFORMANCE CHARACTERISTICS.

1.13 PROTECT WORK AND STRUCTURE FROM DAMAGE, WEATHER, TEMPERATURE AND HUMIDITY EXTREMES. COORDINATE REQUIREMENTS WITH ARCHITECT & GENERAL CONTRACTOR.

1.14 COORDINATE AND SCHEDULE WORK WITH OWNER, GENERAL, ARCHITECT AND OTHER TRADES TO MINIMIZE CONFLICTS, DELAYS, INTERFERENCE AND DISRUPTION OF EXISTING SERVICES, OPERATIONS & ADJACENT BUILDING AREAS.

1.15 PROVIDE SCHEDULE 40 PIPE SLEEVES AT PENETRATIONS THROUGH MASONRY AND CONCRETE, OR FIRE RATED ASSEMBLIES.

1.16 PROVIDE FIRE STOPPING MATERIAL AT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES TO MAINTAIN FIRE RATING INTEGRITY.

1.17 PROVIDE ACCESS FOR SERVICING EQUIPMENT AS RECOMMENDED BY THE MANUFACTURER.

1.18 INSTALL EQUIPMENT AND PIPES PARALLEL TO OR PERPENDICULAR TO BUILDING LINES.

1.19 PROVIDE SPACE, UNIONS AND FLANGES FOR EASE OF MAINTENANCE, DISASSEMBLY AND REMOVAL OF EQUIPMENT.

1.20 PIPE EQUIPMENT DRAINS TO FLOOR DRAINS, JANITOR /

SERVICE SINKS, ETC AS APPLICABLE.

1.21 PIPE PAINTING AND IDENTIFICATION SHALL COMPLY WITH STANDARDS. IDENTIFY PIPES AT EVERY BRANCH AND AT EVERY EQUIPMENT. USE PLASTIC COATED CLOTH MATERIAL WITH COLORS AND IDENTIFICATION AND WATERPROOF ADHESIVE.

1.22 RECORD ALL DEVIATIONS FROM THE CONSTRUCTION DRAWINGS. ON PROJECT COMPLETION, PROVIDE REPRODUCIBLE "AS BUILT" DRAWINGS SHOWING WORK AS ACTUALLY INSTALLED.

1.23 CONDUCT TESTS IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

1.24 PROVIDE 3 COPIES OPERATING AND MAINTENANCE MANUALS FOR PLUMBING EQUIPMENT / SYSTEMS. INCLUDE: "AS BUILT" DRAWINGS, SHOP DRAWINGS, PRODUCT DATA, OPERATING & MAINTENANCE INSTRUCTIONS, TROUBLE SHOOTING, PART LISTS, WARRANTIES, WIRING DIAGRAMS.

1.25 DEMONSTRATE AND INSTRUCT CLIENT'S PERSONNEL IN OPERATING, CONTROLLING, ADJUSTING, TROUBLE SHOOTING, AND SERVICING ALL SYSTEMS AND EQUIPMENT. INSTRUCTIONS SHALL BE HELD DURING REGULAR WORK HOURS PRIOR TO ACCEPTANCE. SUPPLY TOOLS, EQUIPMENT AND PERSONNEL TOTAL TIME SHALL NOT BE LESS THAN 1 HOUR.

1.26 FURNISH A GUARANTEE COVERING ALL EQUIPMENT, COMPONENTS, ACCESSORIES AND SYSTEMS FOR MINIMUM OF ONE YEAR FROM THE DATE OF ACCEPTANCE.

1.27 START-UP AND COMMISSIONING: PROVIDE ENGINEER TECHNICAL SERVICE REPORT OF TEST RESULTS.

1.28 SYSTEM CLEANING: CLEAN INTERIOR AND EXTERIOR OF ALL SYSTEMS INCLUDING STRAINERS, VACUUM INTERIOR OF DUCTWORK AND AIR CONDITIONING UNITS.

1.29 DELIVERY, STORAGE, AND HANDLING: COMPLY WITH MANUFACTURER'S INSTRUCTIONS.

2.0 PRODUCTS

2.1 CONDENSATE DRAIN PIPES SHALL BE CPVC PIPE, FITTINGS AND SOLVENT CEMENTS CERTIFIED TO CAN/CSA-B137.6.

2.2 HANGERS & SUPPORTS - HANGERS SHALL BE IN ACCORDANCE WITH ANSI B31.1. HORIZONTAL PIPE HANGERS SHALL BE CLEVIS TYPE CARBON STEEL WITH BLACK FINISH. FINISH SHALL BE COPPER OR PLASTIC FOR DIRECT SUPPORT COPPER TUBE OR PIPE. RODS SHALL BE BLACK CARBON STEEL THREADED RODS WITH LOCK NUTS, AND PROTECTION SADDLES (FOR INSULATED PIPES).

2.3 INSULATION:

2.3.1 INSULATION SHALL BE PROVIDED PER ASHRAE 90.1, OBC SB10 AND AS SPECIFIED HEREIN. FIRE AND SMOKE RATING IN ACCORDANCE WITH CAN/ULC-S102, MAXIMUM FLAME SPREAD / SMOKE DEVELOPED RATING: 25/50.

2.3.2 INSULATION: MINERAL FIBRE SPECIFIED FOR GLASS FIBRE, ROCK WOOL, SLAG WOOL, THERMAL CONDUCTIVITY ("K" FACTOR) < SPECIFIED VALUES AT 24 DEGREES C MEAN TEMPERATURE WHEN TESTED IN ACCORDANCE WITH ASTM C335.

2.3.3 PIPE INSULATION: APPLY INSULATION TO MECHANICAL EQUIPMENT & SYSTEMS IN ACCORDANCE WITH TIAC.

2.3.3.1 TIAC CODE A-3: RIGID MOULDED MINERAL FIBRE WITH FACTORY APPLIED VAPOUR RETARDER JACKET, MINERAL FIBRE TO CAN/ULC-S702 ASTM C547, JACKET TO CGSB 51-GP-52MA, MAXIMUM "K" FACTOR TO ASTM C547 CAN/ULC-S702.

2.3.3.2 TIAC CODE C-2: MINERAL FIBRE BLANKET FACED WITH FACTORY APPLIED VAPOUR RETARDER JACKET MINERAL FIBRE TO CAN/ULC-S702 ASTM C547, JACKET TO CGSB 51-GP-52MA, MAXIMUM "K" FACTOR TO ASTM C547 CAN/ULC-S702.

2.3.3.3 TIAC CODE A-6 FLEXIBLE UNICELLULAR TUBULAR ELASTOMER WITH VAPOUR RETARDER JACKET TO CGSB 51-GP-52MA, MAXIMUM "K" FACTOR, CERTIFIED BY MANUFACTURER: FREE OF POTENTIAL STRESS CORROSION CRACKING CORRODATANTS.

3.0 EXECUTION

3.1 PROVIDE DRAIN PIPES FROM EQUIPMENT AND/OR FIXTURES TO FLOOR DRAINS AS REQUIRED.

3.2 ALL EQUIPMENT CONNECTIONS SHALL HAVE ISOLATION VALVES AND UNIONS OR FLANGED CONNECTIONS.

3.3 VALVE SIZES SHALL BE THE SAME LINE SIZE UNLESS NOTED OTHERWISE. PROVIDE ISOLATING VALVES IN EACH BRANCH FROM THE MAIN LINE AND WHERE SHOWN. PROVIDE ISOLATING VALVES FOR ALL EQUIPMENT.

3.4 ALL PIPE, FITTINGS, FIXTURES AND EQUIPMENT SHALL BE RIGIDLY SUPPORTED. ALL FASTENINGS TO BUILDING STRUCTURE SHALL BE FIRMLY MADE WITHOUT DAMAGE TO BUILDING STRUCTURE.

3.5 PIPES SHALL BE CONCEALED IN WALLS, CEILINGS, CHASES, PIPE SHAFTS, ETC. EXCEPT IN MECHANICAL ROOMS, SERVICE ROOMS AND AS INDICATED OTHERWISE.

3.6 PROVIDE DIELECTRIC UNIONS BETWEEN PIPES OF DISSIMILAR MATERIAL.

3.7 PROVIDE CHROME PLATED ESCUTCHEONS AT ALL POINTS WHERE PIPES PASS THROUGH FINISHED WALLS, CEILINGS OR FLOORS.

3.8 SUPPORT CAST IRON PIPES AT 1.5 M MAXIMUM INTERVALS; COPPER PIPES AT 2.4 M MAXIMUM INTERVALS; STEEL PIPE AT 3 M MAXIMUM INTERVALS.

3.9 INSULATE SERVICES PER ASHRAE 90.1, SB-10 & PER SCHEDULE.

SECTION 15200 - FIRE PROTECTION

1.0 GENERAL

1.1 SEE SECTION 15000 ABOVE

2.0 PRODUCTS

2.1 ALL FIRE PROTECTION PRODUCTS, COMPONENTS, PARTS, ASSEMBLIES, ACCESSORIES, ETC. SHALL BE SUITABLE FOR THE INTENDED APPLICATION, MEETING APPLICABLE CODES & STANDARDS, APPROVED AND BEAR THE ULC, UL, FM LISTING / LABEL.

2.2 FIRE EXTINGUISHERS: TO NFPA 10, CAN/ULC-S508-02 WITH ULC LABEL.

2.2.1 MULTI PURPOSE DRY CHEMICAL PRESSURE TYPE: AMMONIUM PHOSPHATE, POWDER TYPE, HEAVY DUTY STEEL CYLINDER, BAKED ENAMEL FINISH, SQUEEZE GRIP HANDLE WITH POSITIVE ON/OFF VALVE, HOSE AND NOZZLE, MOUNTING BRACKETS, CLASS A, B, AND C FIRES. CAPACITY / ULC RATING: 2.2 KG (2A10BC). ACCEPTABLE PRODUCT: AMEREX, ANSUL, KIDDIE OR APPROVED EQUAL.

2.2.2 CARBON DIOXIDE: CARBON DIOXIDE CHARGED HEAVY DUTY STEEL CYLINDER, BAKED ENAMEL FINISH, POSITIVE ON/OFF SQUEEZE GRIP HANDLE, IMPACT RESISTANCE DISCHARGE HORN, MOUNTING BRACKET. CAPACITY / ULC RATING: 2.2 KG (5BC). ACCEPTABLE PRODUCT: AMEREX, ANSUL, KIDDIE OR APPROVED EQUAL.

3.0 EXECUTION

3.1 FURNISH AND INSTALL FIRE PROTECTION / FIRE EXTINGUISHERS, THROUGHOUT ALL AREAS OF THE BUILDING AS INDICATED UNLESS SPECIFICALLY EXEMPTED BY APPLICABLE CODES & STANDARDS.

3.2 FIRE PROTECTION SYSTEM SHALL BE DESIGNED & INSTALLED IN ACCORDANCE WITH APPLICABLE CODES & STANDARDS INDICATED.

3.3 REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING CODE DETAILS - CONSTRUCTION TYPE, CONSTRUCTION MATERIALS, AREAS, ETC.

3.4 PREPARE SUBMITTAL DOUMENTS (PLANS, SPECIFICATIONS, LAYOUTS, DETAILS, EQUIPMENT INFORMATION / CUTSHEETS, ETC.) CONFORMING TO APPLICABLE CODES & STANDARDS INDICATED ABOVE.

3.5 PROVIDE SUBMITTAL DOCUMENTS TO CONSULTANT / ENGINEER AFTER SUBMITTAL DOCUMENTS HAVE BEEN SUBMITTED, REVIEWED, CORRECTED, UPDATED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.

3.6 FIRE EXTINGUISHER INSTALLATION: INSTALL FIRE EXTINGUISHER CABINET WITH TOP OF CABINET 1.5 M ABOVE FLOOR.

SECTION 15400 - PLUMBING

1.0 GENERAL

1.1 SEE SECTION 15000 ABOVE.

2.0 PRODUCTS

2.1 PLUMBING EQUIPMENT:

2.1.1 WATER HAMMER ARRESTOR: STAINLESS STEEL OR COPPER CONSTRUCTION, PISTON OR BELLOW STYLE: TO PDI-WH201.

2.1.2 BACKFLOW PREVENTERS, VACUUM BREAKERS, ETC: PTOVIDE TO MEET CSA-B64 SERIES.

2.1.3 WATER METER: DISPLACEMENT TYPE TO ANSI/AWWA C700 TURBINE TYPE TO ANSI/AWWA C701 COMPOUND TYPE TO ANSI/AWWA C702. CAPACITY: AS INDICATED. ACCESSORIES: REMOTE READOUT DEVICE

2.1.4 TRAP SEAL PRIMER

2.1.4.1 INDIVIDUAL TRAPS: AUTOMATIC, CAST BRASS BODY, RENEWABLE DISC AND SEAT RINGS, VACUUM BREAKER, NPS 1/2

SOLDER ENDS, NPS 1/2 DRIP LINE CONNECTION AND REMOVABLE COVER. WATTS MS-810

2.1.4.2 GROUPS OF TRAPS: CORROSION RESISTANT BRASS, PISTON OPERATED, NO SPRINGS OR DIAPHRAGMS, ADJUSTABLE TO HIGH OR LOW PRESSURES. 1 TO 4 TRAPS PRECISION PLUMBING PRODUCTS MODEL P-1. 1 TO 2 TRAPS PRECISION PLUMBING PRODUCTS MODEL P-2.

2.1.5 STRAINERS: 860KPA, Y TYPE WITH 20 MESH, MONEL, BRONZE OR STAINLESS STEEL REMOVABLE SCREEN. NPS 2 AND UNDER, BRONZE BODY, SCREWED ENDS, WITH BRASS CAP. NPS 2 1/2 AND OVER, CAST IRON BODY, FLANGED ENDS, WITH BOLTED CAP.

2.2 FLOOR DRAINS: TO CSA B79. TYPE 1: GENERAL DUTY, CAST IRON BODY SQUARE / ROUND, ADJUSTABLE HEAD, SEDIMENT BASKET, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR

2.3 DOMESTIC WATER HEATER (ELECTRIC): COMPLETELY ASSEMBLED COMMERCIAL WATER HEATER WITH 3" RIGID POLYURETHANE FOAM INSULATION, DOUBLE COATED HIGH TEMPERATURE PORCELAIN ENAMEL, MAGNESIUM ANODE RODS, 150 PSI WORKING PRESSURE, FACTORY AGAVASME RATED TEMPERATURE & PRESSURE RELIEF VALVE, UL SANITATION (NSF5), ASHRAE & ENERGY CODE COMPLIANCE, LIFE GUARD "SCREW-IN" TYPE ELEMENTS, INCO-LOY 840 STAINLESS STEEL OUTER SHEATH, SYSTEM SENTINEL ELEMENT DIAGNOSTIC PANEL, LIGHT EMITTING DIODES, INTERNAL POWER CIRCUIT FUSING, CONTROL CIRCUIT FUSING, MAGNETIC CONTACTORS, 120 VOLT CONTROL TRANSFORMER, IMMERSION THERMOSTAT(S), MANUAL RESET HIGH LIMIT CONTROL & THREE YEAR LIMITED WARRANTY AGAINST TANK LEAKS. ACCEPTABLE PRODUCT: RHEEM-RUUD E SERIES OR APPROVED EQUAL.

2.4 EXPANSION TANK (COMMERCIAL DOMESTIC): PRE-CHARGED THERMAL EXPANSION TANK CONSTRUCTED IN PRIME PAINTED CARBON STEEL SHELL TO ASME SECTION VIII CONSTRUCTION WITH FIXED FDA APPROVED BUTYL BLADDER, TOP NPT STAINLESS STEEL SYSTEM CONNECTION. .302" - 32 CHARGING VALVE CONNECTION, 150 PSI (10 BAR) MAXIMUM DESIGN PRESSURE, 240°F (115°C) MAXIMUM DESIGN TEMPERATURE. WATTS MODEL DETA OR APPROVED EQUAL.

2.5 THERMOSTATIC MIXING VALVE: DUAL PURPOSE MIXING OR DIVERTING VALVE. CONSTANT WATER TEMPERATURE UNDER DIFFERENT OPERATING CONDITIONS. PROPORTIONAL VALVE (CONTROL OF HOT AND COLD WATER). TEMPERATURE ADJUSTABLE, UNION NPT CONNECTIONS, ANY POSITION INSTALLATION. RECIRCULATION CONNECTION. BRASS/STAINLESS STEEL CONSTRUCTION. WATER SURFACE TEFLON COATED TO PREVENT CALCIUM AND LIME DEPOSITS. MAXIMUM PRESSURE DIFFERENTIAL BETWEEN HOT AND COLD PORTS IS 7 PSI. ASSE 1017 LISTED, CSA APPROVED. HONEYWELL MX SERIES VALVE OR APPROVED EQUAL.

2.6 PLUMBING PIPING

2.6.1 SANITARY DRAINAGE PIPING - BURIED: 2" (50 MM) AND SMALLER DIAMETER, HARD TEMPER COPPER PIPE, TYPE L; 3" (75 MM) AND LARGER DIAMETER, CAST IRON SOIL PIPE, NO-HUB MECHANICAL JOINT WITH NEOPRENE GASKETS AND STAINLESS STEEL PIPE CLAMPS;

2.6.2 SANITARY DRAINAGE PIPING - ABOVE GRADE: 2" (50 MM) AND SMALLER DIAMETER, HARD TEMPER COPPER TUBE, TYPE DWV, SOLDERED, WITH WROUGHT COPPER OR COPPER DRAINAGE FITTINGS OR CAST BRASS DRAINAGE FITTINGS; 3" (75 MM) AND LARGER DIAMETER, CAST IRON SOIL PIPE, NO-HUB MECHANICAL JOINT WITH NEOPRENE GASKETS AND STAINLESS STEEL PIPE CLAMPS WITH CAST IRON DRAINAGE FITTINGS.

2.6.3 VENT PIPING - BURIED: 2" (50 MM) AND SMALLER DIAMETER, HARD TEMPER COPPER PIPE, TYPE L, TO ASTM B42-87, WITH WROUGHT COPPER OR COPPER ALLOY SOLDER JOINT TO ANSI B16.29-73 OR CAST BRASS SOLDER JOINT TO CSA B158.1-1976.

2.6.4 VENT PIPING - ABOVE GRADE: 2" (50 MM) AND SMALLER DIAMETER, HARD TEMPER COPPER TUBE, TYPE DWV 3" (75 MM) AND LARGER DIAMETER, CAST IRON SOIL PIPE, NO HUB MECHANICAL JOINT WITH CAST IRON DRAINAGE FITTINGS

2.6.5 WATER PIPING - ABOVE GRADE: COPPER TUBING 3" (75MM) AND SMALLER TYPE L, HARD DRAWN FITTINGS: CAST COPPER ALLOY OR WROUGHT COPPER AND BRONZE.

2.6.6 ISOLATING VALVES: UP TO AND INCLUDING 2" (50 MM); MANUFACTURER: KITZ 69AMLL, CONSTRUCTION: MSS SP-110, 1034 KPA (150 PSIG) 600 WOG, FORGED BRASS, TWO PIECE BODY, STAINLESS STEEL BALL AND STEM, FULL PORT, VIRGIN PTFE SEATS AND STEM PACKING OR DOUBLE "O" RING, BLOW-OUT PROOF STEM, LEVER HANDLE, STEM EXTENSIONS FOR INSULATED PIPING, SOLDER ENDS.

2.6.7 PLASTIC PIPING: COMBUSTIBLE PIPING SHALL CONFORM TO OBC.

2.6.7.1 PLASTIC DWV PIPE, FITTINGS AND SOLVENT CEMENT (IN BUILDINGS): INSIDE OR UNDER A BUILDING IN A SANITARY DRAINAGE SYSTEM OR VENTING SYSTEM SHALL BE CERTIFIED TO ASTM F628, CAN/CSA-B181.1, AND/OR CAN/CSA-B 181.2.

2.6.7.2 PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS: ABS-DWV SUITABLE FOR GENERAL WOOD-FRAME CONSTRUCTION, ABOVE GROUND AND UNDERGROUND, SCHEDULE 40 PIPE DIMENSIONS, SOLID WALL OR CELL CORE, 1-1/4" - 6" (32MM TO 150MM), ABS DWV FITTINGS, CERTIFIED TO CSA B181.1 (SOLID CORE), ASTM F628 (CELL CORE). PRODUCT SHALL NOT BE USED IN AIR PLENUMS, VERTICAL SHAFTS IN COMBUSTIBLE & NON COMBUSTIBLE CONSTRUCTION. IN ADDITION, PRODUCT SHALL ONLY BE USED INSIDE BUILDING ABOVE GRADE IN COMBUSTIBLE CONSTRUCTION AND INSIDE BUILDING ABOVE GRADE (CONCEALED IN WALL OR CONCRETE FLOOR) IN NON-COMBUSTIBLE CONSTRUCTION. ACCEPTABLE PRODUCT: IPEX OR APPROVED EQUAL.

2.6.7.3 PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS: SUITABLE FOR COMMERCIAL, INDUSTRIAL, RESIDENTIAL ABOVE GROUND OR UNDERGROUND APPLICATIONS, CERTIFIED TO CSA B181.2 & CAN/ULC S102.2 (FOR NON-COMBUSTIBLE BUILDING CONSTRUCTION), CLEARLY MARKED WITH THE CERTIFICATION, FLAME SPREAD RATING < 25. PRODUCT SHALL NOT BE USED IN AIR PLENUMS, VERTICAL SHAFTS IN COMBUSTIBLE & NON COMBUSTIBLE CONSTRUCTION. ACCEPTABLE PRODUCT: IPEX SYSTEM 15 DWV OR APPROVED EQUAL.

2.6.7.4 PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS: SUITABLE FOR COMMERCIAL, INDUSTRIAL, ABOVE GROUND OR UNDERGROUND APPLICATIONS, CERTIFIED, TESTED & LISTED TO CSA B181.2 & CAN/ULC S102.2 (FOR NON-COMBUSTIBLE BUILDING CONSTRUCTION, HIGH-RISE BUILDINGS AND AIR PLENUMS), CLEARLY MARKED WITH THE CERTIFICATION, FLAME SPREAD RATING < 25 AND A SMOKE-DEVELOPED CLASSIFICATION < 50. ACCEPTABLE PRODUCT: IPEX SYSTEM XFR DWV OR APPROVED EQUAL.

2.6.7.5 PLASTIC MECHANICAL JOINT COUPLING: CERTIFIED TO CSA 8602 & LISTED TO ULC 102.2-10 FOR FLAME SPREAD RATING / SMOKE DEVELOPMENT CLASSIFICATION LIMITS OF 25/50, STAINLESS STEEL BAND WITH GREY RUBBER GASKET, DESIGNED SPECIFICALLY FOR PLASTIC DWV PIPING (8", 10" & 12" SIZES). ACCEPTABLE PRODUCT: IPEX MJ GREY OR APPROVED EQUAL.

2.6.7.6 FIRESTOPPING DEVICES (PLASTIC DWV PIPE & FITTINGS): ALL PENETRATIONS OF FIRE-RATED FLOORS AND WALLS SHALL BE FIRESTOPPED WITH DEVICES OR SYSTEMS CERTIFIED, LISTED & TESTED TO ULC/CAN4 S115 TO 50 PA PRESSURE DIFFERENTIAL. PRODUCT SHALL BE SUITABLE FOR CONCRETE FLOOR, CONCRETE WALL, Q-DECK, WOOD FRAME, DRYWALL OR CORE SLAB CONSTRUCTION. INSTALL COMPLETE WITH ALL REQUIRED COMPONENTS (STRAPS, COLLARS, CAST-IN-PLACE DEVICES, CAULKS, SEALANTS, ETC.) AND INSTALLATION RECOMMENDED BY MANUFACTURER.

2.6.7.7 SOLVENT CEMENTS: ASTM, CSA, NSF AND/OR ULC LISTED, CERTIFIED AND/OR LABELED TO ASTM D2235, ASTM D2564, ASTM D2846, ASTM D3138, ASTM F493, AND/OR ASTM F656 SUITABLE FOR INDUSTRIAL, PLUMBING, PRESSURE AND/OR NON-PRESSURE AS APPLICABLE. HIGH STRENGTH SOLVENT CEMENTS FOR THERMOPLASTIC PIPING SYSTEMS, PRIMERS AND APPLICATORS SHALL BE SUITABLE FOR AND FORMULATED TO MEET SPECIFIC NEEDS.

2.6.7.8 SOLVENT CEMENTS (PLASTIC DWV PIPE & FITTING): CSA-CERTIFIED & MEET REQUIREMENTS OF ASTM D2564, LEED COMPLIANT, LOW VOC, ONE-STEP CEMENT FOR 1-1/2" TO 6" (40MM TO 150MM), PRIMER WITH TWO-STEP CEMENT FOR SIZES 8" THROUGH 24". ACCEPTABLE PRODUCT: IPEX OR APPROVED EQUAL.

2.6.7.9 PLASTIC WATER DISTRIBUTION SYSTEM: SHALL MEET THE SYSTEM DESIGN TEMPERATURE AND PRESSURE. HOT AND COLD POTABLE WATER SYSTEMS: CROSS-LINKED POLYETHYLENE PIPE AND FITTINGS CERTIFIED TO CAN/CSA-B137.5.

2.7 PLUMBING FIXTURES:

2.7.1 ALL PLUMBING FIXTURES & EQUIPMENT SHALL MEET THE LATEST SAFETY & WATER EFFICIENCY REQUIREMENTS OF THE APPLICABLE CODES & STANDARDS.

2.7.2 LAUNDRY SINK (S1): STAINLESS STEEL 22" X 19-1/2" X 7-5/8", SINGLE BOWL, TOP MOUNT SINK, MANUFACTURED FROM 18 GAUGE 304 STAINLESS STEEL WITH A LUSTERTONE FINISH, CENTER DRAIN, 3.5 INCH BASKET DRAIN AND BOTTOM ONLY PADS. ELKAY LUSTERTONE OR APPROVED EQUAL. FAUCET: CHROME PLATED FINISH, ECASST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) CAST BRASS BODY, 1/4 TURN CERAMIC DISC VALVE CARTRIDGES, PRESSURE COMPENSATING SOFTFLO AERATOR OUTLET, 6" S TYPE SWING SPOUT, 2-3/8" METAL VANDAL PROOF LEVER HANDLES WITH BLUE AND RED INDEX BUTTONS. ACCEPTABLE PRODUCT: CHICAGO FAUCETS TWO HANDLES FAUCET OR APPROVED EQUAL. SUPPLIES: CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 1/2" I.D. INLET X 5" HORIZONTAL EXTENSION TUBES, CONVERTIBLE 1/4 TURN/LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS, ACCEPTABLE PRODUCT: MCGUIRE FAUCET SUPPLIES OR APPROVED EQUAL. P-TRAP: ADJUSTABLE P-TRAP, HEAVY CAST BRASS, POLISHED CHROME, WITH CLEANOUT PLUG, 292 MM (11-1/2") LENGTH, 38 X 38 MM (1-1/2" X 1-1/2") SIZE, BOX FLANGE, CHROME-PLATED WROUGHT STEEL, NEOPRENE GASKET, 17 GAUGE SEAMLESS TUBULAR WALL BEND, SLIPNUTS. MCGUIRE 8912CB OR APPROVED EQUAL.

2.7.3 SHOWER (SH1): CHICAGO FAUCETS SH-PB1-03-000 POLISHED CHROME FINISH, PRESSURE BALANCING TUB AND SHOWER SYSTEM WITH SHOWER HEAD AND VALVE TRIM OPTIONS, 5.7 LPM (1.5 GPM) MAXIMUM FLOWRATE @ 80 PSI, ARM AND WALL FLANGE, SHOWERHEAD WITH SWIVEL BALL JOINT, COLD TO HOT CYCLE, WALL MOUNTED, ROUND TRIM, 171 MM (6-3/4") Ø TRIM SIZE, LEVER HANDLE, PRESSURE BALANCING VALVE, BUILT-IN INTEGRAL CHECK STOPS, PRESSURE BALANCING VALVE CARTRIDGE, 13 MM (1/2") NOMINAL Ø COPPER SWEAT INLET, 13 MM (1/2") NOMINAL Ø COPPER SWEAT OUTLET.

2.7.4 SHOWER (SH1H): CHICAGO FAUCETS SH-PB1-00-044 POLISHED CHROME FINISH, PRESSURE BALANCING TUB AND SHOWER SYSTEM WITH HAND SPRAY AND VALVE TRIM OPTIONS, WITH HAND SHOWER, 5.7 LPM (1.5 GPM) FLOWRATE, 69" (1753 MM) LONG STAINLESS STEEL HOSE, HAND SPRAY WITH PAUSE CONTROL, WALL ELBOW, IN-LINE VACUUM BREAKER, COLD TO HOT CYCLE, WALL MOUNTED, ROUND TRIM, 171 MM (6-3/4") Ø TRIM SIZE, LEVER HANDLE, PRESSURE BALANCING VALVE, BUILT-IN INTEGRAL CHECK STOPS, 914 MM (36") LONG ADA GRAB BAR, WALL MOUNTED GRAB BAR, PRESSURE BALANCING VALVE CARTRIDGE, 13 MM (1/2") NOMINAL Ø COPPER SWEAT INLET, 13 MM (1/2") NOMINAL Ø COPPER SWEAT OUTLET, ADA, ANSI ICC A117.1 ASSE 1016 ASME A112.1016 CSA B125.16.

2.7.5 LAVATORY (L1): WALL HUNG, VITREOUS CHINA, WHITE FINISH, SINGLE LEVER, GENERAL USE: AMERICAN STANDARD #0954.000 'MURRO' BASIN, 3 HOLES, 4" (102MM) CENTRES, 21-1/4" X 22" X 5 - 7/12" (540MM X 559MM X 127-191MM) DEEP, WALL HUNG, VITREOUS CHINA, REAR OVERFLOW, FOR CONCEALED ARM SUPPORT, CHICAGO FAUCET 420-EC2805-ABCP SINGLE HANDLE LAVATORY FAUCET, CHROME PLATED FINISH, ECASST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) ECASST BRASS CONSTRUCTION, 1.9 LPM (0.5 GPM) VANDAL RESISTANT PRESSURE COMPENSATING ECONO-FLO NON-AERATING SPRAY OUTLET, 117 MM (4-5/8") PROJECTION RIGID CAST BRASS SPRAY, SINGLE METAL LEVER HANDLE, 13 MM (1/2") NPSM SUPPLY INLETS AND COUPLING NUT FOR FLEXIBLE RISER. MCGUIRE 155A OPEN GRID DRAIN, CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) TUBULAR 32 MM (1-1/4") TAILPIECE. LFH170BV FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, COMBINATION V.P. LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS, 8872C P-TRAP, CHROME PLATED FINISH, HEAVY CAST BRASS ADJUSTABLE BODY, SLIP NUT, 32 MM (1-1/4") SIZE, CLEANOUT, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND, PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION, PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION, PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. WATTS WCA-411-CA-481 WCA-411/WCA-411-WC, SINGLE FLOOR-MOUNTED LAVATORY CARRIER WITH CONCEALED ARMS, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS, EPOXY COATED CAST IRON, INTEGRAL WELDED FEET, UPPER TIE ROD, HEAVY GAUGE STEEL OFFSET UPRIGHTS, BASIN LOCKING DEVICE, PLATED HARDWARE, LEVELLING SCREWS, WALL MOUNTED STEEL SUPPORT PLATE WITH PLATED HARDWARE.

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Revisions

Table with 3 columns: No., Date, Description. Contains 15 revision entries.

Issued to / from: Drawn By: JDP, VSM, WA Scale: NA Checked By: HAA Date: 2026-02-20 Sheet Number: HAA

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MECHANICAL SPECIFICATIONS M200

2.7.6 LAVATORY (L1H): LAVATORY: WALL HUNG, VITREOUS CHINA, WHITE FINISH, SINGLE LEVER, BARRIER-FREE DESIGN & GENERAL USE: AMERICAN STANDARD #0954.000 'MURRO' BASIN, 3 HOLES, 4" (102MM) CENTRES, 21-1/4" X 22" X 5 - 7-1/2" (540MM X 559MM X 127-191MM) DEEP, WALL HUNG, VITREOUS CHINA, REAR OVERFLOW, FOR CONCEALED ARM SUPPORT. CHICAGO FAUCET 420-E2805-ABCP SINGLE HANDLE LAVATORY FAUCET, CHROME PLATED FINISH, ECAST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) ECAST BRASS CONSTRUCTION, 1.9 LPM (0.5 GPM) VANDAL RESISTANT PRESSURE COMPENSATING ECONO-FLO NON-AERATING SPRAY OUTLET, 117 MM (4-5/8") PROJECTION RIGID CAST BRASS SPOUT, SINGLE METAL LEVER HANDLE, 13 MM (1/2") NPSM SUPPLY INLETS AND COUPLING NUT FOR FLEXIBLE RISER, LAWLER 570-86820 POINT OF USE THERMOSTATIC WATER MIXING VALVE, NICKEL PLATED BRONZE BODY, TEMPERATURE ADJUSTING SPINDLE, 10 MM (3/8") INLETS AND OUTLET FNPT CONNECTIONS, INTEGRAL CHECKS, OFFER TEMPERATURE RANGE BETWEEN 35 °C (95 °F) AND 46 °C (114.8 °F). SET VALVE TEMPERATURE AT 46 °C (114.8 °F). MCGUIRE 155A OPEN GRID DRAIN, CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) TUBULAR 32 MM (1-1/4") TAILPIECE, LFH170BV FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, COMBINATION V.P. LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS, 8872C P-TRAP, CHROME PLATED FINISH, HEAVY CAST BRASS ADJUSTABLE BODY, SLIP NUT, 32 MM (1-1/4") SIZE, CLEANOUT, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND, PW2000WC PROWRAP SANITARY COVERING VANDAL-RESISTANT, FLEXIBLE SEAMLESS MOULDED CLOSED-CELL PVC RESIN WITH ANTI-MICROBIAL ADDITIVE. PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. WATTS WCA-411-CA-481 WCA-411/WCA-411-WC, SINGLE FLOOR-MOUNTED LAVATORY CARRIER WITH CONCEALED ARMS, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS, EPOXY COATED CAST IRON, INTEGRAL WELDED FEET, UPPER TIE ROD, HEAVY GAUGE STEEL OFFSET UPRIGHTS, BASIN LOCKING DEVICE, PLATED HARDWARE, LEVELLING SCREWS, WALL MOUNTED STEEL SUPPORT PLATE WITH PLATED HARDWARE.

2.7.7 WATER CLOSET (WC1): AMERICAN STANDARD CADET PRO ELONGATED, LOW FLOW, FLOOR MOUNTED TOILET, WHITE FINISH, VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL, CADET FLUSHING SYSTEM, POWERWASH RIM SIPHON FLUSHING SYSTEM, RAISED SANITARY BAR, 4 POINTS TANK STABILIZATION, TWO PIECE, SPEED CONNECT TANK ASSEMBLY, LINED TANK, OVERSIZED 76 MM (3") FLUSH VALVE WITH FLAPPER, METAL SHANK FILL VALVE, 305 MM (12") ROUGH-IN, ELONGATED BOWL, 54 MM (2-1/8") FULLY GLAZED INTERNAL TRAPWAY, BOLT CAPS, 3517C.101 BOWL AND 4188A.154 TANK LINED TANK. WATER CONSUMPTION: 4.8 L (1.28 US GAL) PER FLUSH. CENTOCO 500STSCC.001 TOILET SEAT, HEAVY DUTY, FOR ELONGATED BOWL, OPEN FRONT, SOLID PLASTIC, OPEN FRONT, LESS COVER, STAINLESS STEEL CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND NUTS. MCGUIRE LFH172BV TOILET SUPPLY, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") LONG RIGID HORIZONTAL INTEGRAL COPPER SWEAT TUBE NIPPLES, COMBINATION V.P. LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS. FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND WITH RUBBER GASKET

2.7.8 WATER CLOSET (WC1H): AMERICAN STANDARD CADET PRO RIGHT HEIGHT, ELONGATED, LOW FLOW, BARRIER FREE, FLOOR MOUNTED TOILET, WHITE FINISH, VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL, CADET FLUSHING SYSTEM, POWERWASH RIM SIPHON FLUSHING SYSTEM, RAISED SANITARY BAR, 4 POINTS TANK STABILIZATION, TWO PIECE, SPEED CONNECT TANK ASSEMBLY, LINED TANK, OVERSIZED 76 MM (3") FLUSH VALVE WITH FLAPPER, METAL SHANK FILL VALVE, 305 MM (12") ROUGH-IN, ELONGATED BOWL, 54 MM (2-1/8") FULLY GLAZED INTERNAL TRAPWAY, BOLT CAPS, 3517A.101 BOWL AND 4188A.174 TANK, BOLTED TANK COVER, LINED TANK. WATER CONSUMPTION: 4.8 L (1.28 US GAL) PER FLUSH. CENTOCO 820STS.001 TOILET SEAT, EXTRA HEAVY DUTY, FOR ELONGATED BOWL, OPEN FRONT, SOLID PLASTIC, OPEN FRONT, WITH COVER, STAINLESS STEEL CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND NUTS. MCGUIRE LFH172BV TOILET SUPPLY, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") LONG RIGID HORIZONTAL INTEGRAL COPPER SWEAT TUBE NIPPLES, COMBINATION V.P. LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS. FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND WITH RUBBER GASKET

3.0 EXECUTION

3.01 SEE SECTION 15000.

SECTION 15600 – HEATING, VENTILATING & AIR CONDITIONING

1.0 GENERAL: SEE SECTION 15000 ABOVE.

2.0 PRODUCTS

2.01 DUCTWORK & ACCESSORIES:

2.01.1 DUCTS AND FITTINGS SHALL BE FABRICATED FROM

GALVANIZED SHEET STEEL, LOCK FORMING QUALITY TO ASTM A525 WITH Z275 ZINC COATING. DUCT CONSTRUCTION SHALL BE PER SMACNA FOR 2 INCHES W.C. PRESSURE CLASS WITH MAXIMUM LEAKAGE RATE OF 5%. DUCT CONNECTIONS AND TRANSVERSE JOINTS SHALL BE SEALED WITH SEALANT AND TAPE.

2.01.2 DUCT MATERIAL THICKNESS SHALL BE AS FOLLOWS:

MAXIMUM SIZE OR DIAMETER	THICKNESS
UP TO 300 MM	26 U.S. STANDARD GAUGE
301 TO 750 MM	24 U.S. STANDARD GAUGE
751 TO 1000 MM	22 U.S. STANDARD GAUGE
1001 TO 1500 MM	20 U.S. STANDARD GAUGE

2.01.3 FLEXIBLE DUCT: INSULATED, UL-181/ETL CLASS I AIR DUCT, NFPA 90A COMPLIANT, LOW TO MEDIUM PRESSURE APPLICATION, ALUMINUM FOIL, FIBREGLASS AND ALUMINIZED POLYESTER LAYERS, CORROSION RESISTANT GALVANIZED STEEL HELIX, FIRE RETARDANT REINFORCED VAPOUR BARRIER, FIBERGLASS INSULATION BLANKET, FACTORY WRAPPED, 5 FEET MAXIMUM LENGTH. FLEXMASTER 5B OR APPROVED EQUAL.

2.01.4 FLEXIBLE CONNECTIONS SHALL BE FIRE RESISTANT, SELF EXTINGUISHING, NEOPRENE COATED GLASS FABRIC WITH GALVANIZED SHEET METAL FRAME.

2.01.5 VOLUME DAMPERS (SINGLE BLADE UP TO 12 INCHES DEEP) SHALL BE SAME MATERIAL AS DUCT, NEXT GAUGE HEAVIER THAN DUCT, V GROVE STIFFENED, LOCKING QUADRANT, SHAFT EXTENSION, BRONZE END BEARINGS, CHANNEL FRAME AND ANGLE STOP. DAMPERS FOR DUCTS GREATER THAN 12 INCHES DEEP SHALL BE PARALLEL BLADE, PIN IN BRONZE BUSHING, LOCKING QUADRANT, SHAFT EXTENSION, ANGLE STOP, CHANNEL FRAME INTERCONNECTED. BLADES UP TO 30 INCHES IN LENGTH SHALL HAVE A MAXIMUM WIDTH OF 10 INCHES, BLADES LONGER THAN 30 INCHES SHALL HAVE A MAXIMUM WIDTH OF 12 INCHES. KERR HUNT OR APPROVED EQUAL.

2.01.6 FIRE DAMPERS SHALL BE FACTORY FABRICATED GALVANIZED STEEL, CHANNEL FRAME, CURTAIN TYPE, LOW RESISTANCE TYPE B, INTERLOCKING BLADES, 160 DEGREES F FUSIBLE LINK, UL LISTED AND LABELED FOR 1 ½ HOUR RATING. FUSIBLE LINKS FOR 105 DEGREES F, 182 DEGREES F OR 285 DEGREES F, SHALL BE PROVIDED AS INDICATED ON DRAWINGS. RUSKIN, CONTROLLED AIR OR APPROVED EQUAL.

2.01.7 BACK DRAFT DAMPERS SHALL BE MULTI-BLADE LOUVER TYPE OF EXTRUDED ALUMINUM INTERLOCKING BLADES AND FRAME, RUST-PROOF SHAFTS, BRONZE/NYLON BUSHINGS, INSULATED AND FELT BLADE EDGES.

2.01.8 TURNING VANES SHALL BE FACTORY OR SHOP FABRICATED SINGLE THICKNESS WITH TRAILING EDGE.

2.01.9 ACCESS DOORS SHALL BE CONSTRUCTION OF SAME MATERIAL AS DUCT, ONE SHEET METAL THICKNESS HEAVIER, MINIMUM 0.0236 INCH THICK WITH SHEET METAL ANGLE FRAME, AND NEOPRENE OR FOAM RUBBER GASKETS.

2.01.10 STRAP HANGERS SHALL BE FABRICATED WITH THE SAME MATERIAL AS DUCT. THREADED RODS WITH STEEL ANGLES SHALL BE USED FOR DUCTS 20 INCHES AND LARGER. RODS AND ANGLES SHALL BE GALVANIZED-STEEL. HANGER CONFIGURATION AND SPACING SHALL CONFORM TO SMACNA STANDARDS. HANGER ATTACHMENTS SHALL BE MANUFACTURED CONCRETE INSERTS, EXPANSION SHIELDS AND/OR BOLTED STEEL CLAMPS.

2.02 DIFFUSERS, GRILLES & REGISTERS

2.02.1 RETURN/EXHAUST GRILLES SHALL BE ½ IN X ½ IN X ½ IN ALUMINUM GRID EGG CRATE CORE, ALUMINUM BORDER AND FRAME, T BAR LAY IN TYPE, OFF WHITE BAKED ENAMEL FINISH. SEE DRAWINGS FOR SIZE AND TYPE. E. H. PRICE 80 SERIES OR APPROVED EQUAL.

2.02.2 TRANSFER GRILLE: HEAVY DUTY EXTRUDED ALUMINUM CONSTRUCTION, LARGE FREE AREA, COMPLETELY SIGHTPROOF OR LIGHTPROOF CORE, AND RUGGED MANDREL TUBE CONSTRUCTION OF HEAVY GAUGE EXTRUDED ALUMINUM AS REQUIRED FOR SEVERE USE APPLICATIONS. FINISH SELECTION BY ARCHITECT. ACCEPTABLE MANUFACTURER: PRICE MODEL ATG / ATGH SERIES.

2.03 LOUVERS:

2.03.1 WEATHER LOUVERS: STATIONARY TYPE WITH 18 GA. STEEL BLADES & FRAME, 100 MM (4 IN) DEEP; BLADES SLOPED AT 37.5 DEGREES, 50% MIN FREE AREA, WATER PENETRATION AT 275 MPM (960 FPM) MIN AT 0.03 KPA (0.1 IN) PRESS DROP, BIRD SCREEN, INSECT SCREEN, SUPPORTS, INSTALLATION HARDWARE, FINISH (COLOR BY ARCHITECT). ACCEPTABLE MANUFACTURER: RUSKIN L375D, NAILOR, AIROLITE, VENTEX.

2.03.2 WALL VENT: ANODIZED ALUMINUM, BUILT-IN ALUMINUM MESH INSECT SCREEN. ACCEPTABLE PRODUCT: GREENHECK OR APPROVED EQUAL.

2.04 FANS

2.04.1 EXHAUST FAN: DIRECT DRIVE SQUARE INLINE FAN WITH GALVANIZED STEEL HOUSING, BACKWARD-INCLINED ALUMINUM CENTRIFUGAL WHEEL, ACCESS PANELS, VARI-GREEN® ELECTRONICALLY COMMUTATED MOTOR, INTEGRATED SPEED CONTROLLER DIAL, UL/CUL 705 & AMCA LICENSED FOR SOUND & AIR PERFORMANCE CERTIFICATIONS. GREENHECK SQ-12-M2-VG OR APPROVED EQUAL.

3.0 EXECUTION

3.01 DUCT SIZE CHANGES SHALL HAVE THE SAME FRICTION DROP PER 100 FT AS THE DUCT SHOWN ON DRAWINGS. DUCT ASPECT RATIO SHALL NOT EXCEED 4 TO 1. CONSULT ENGINEER BEFORE CHANGING DUCT SIZE OR LOCATION.

3.02 PROVIDE FLEXIBLE DUCT CONNECTIONS AT SUCTION AND DISCHARGE CONNECTIONS TO FANS AND AIR CONDITIONING UNITS.

3.03 SEAL DUCT CONNECTIONS AND TRAVERSE JOINTS WITH SEALANT AND TAPE.

3.04 PROVIDE FIRE DAMPERS WITH STEEL ANGLES AROUND PERIMETER AND ACCESS DOORS.

3.05 TESTING ADJUSTING & BALANCING:

3.05.1 TESTING AND BALANCING SHALL CONFORM TO AABC, NEBB, AND/OR SMACNA FOR THE ADJUSTMENT OF AIR SYSTEMS USING TAB STANDARD PROVISIONS: CHECKLISTS, REPORT FORMS, FIRM AND SPECIALIST QUALIFICATIONS AND CALIBRATION OF TAB INSTRUMENTS.

3.05.2 PERFORM TAB TO TEST TO VERIFY PROPER AND SAFE OPERATION, DETERMINE ACTUAL POINT OF PERFORMANCE, EVALUATE QUALITATIVE AND QUANTITATIVE PERFORMANCE OF EQUIPMENT, SYSTEMS AND CONTROLS AT DESIGN, AVERAGE AND LOW LOADS USING ACTUAL OR SIMULATED LOADS. ADJUST AND REGULATE EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS AND TO ACHIEVE SPECIFIED INTERACTION WITH OTHER RELATED SYSTEMS UNDER NORMAL AND EMERGENCY LOADS AND OPERATING CONDITIONS. BALANCE SYSTEMS AND EQUIPMENT TO REGULATE FLOW RATES TO MATCH LOAD REQUIREMENTS OVER FULL OPERATING RANGES.

3.05.3 START-UP: PERFORM STARTUP FOLLOWING START-UP PROCEDURES PER EQUIPMENT MANUFACTURER.

3.05.4 START TAB WHEN BUILDING IS ESSENTIALLY COMPLETED AND ENCLOSED, MECHANICAL SYSTEMS INSTALLED COMPLETE, PRESSURE TESTED, ETC. AND OPERATIONAL.

3.05.5 DO TAB TO FOLLOWING TOLERANCES OF DESIGN VALUES HVAC SYSTEMS: PLUS 5%, MINUS 5%. REPORTED RESULTS SUBJECT TO VERIFICATION BY CONSULTANT. PROVIDE PERSONNEL AND INSTRUMENTATION TO VERIFY UP TO 30% OF REPORTED RESULTS. PAY COSTS TO REPEAT TAB AS REQUIRED TO SATISFACTION OF CONSULTANT. TAB CONSIDERED COMPLETE WHEN FINAL TAB REPORT RECEIVED AND APPROVED BY CONSULTANT.

3.05.6 AIR SYSTEM MEASUREMENTS: AIR VELOCITIES, TOTAL/STATIC PRESSURES, FLOW RATES, PRESSURE DROPS (OR LOSS), TEMPERATURES (DRY BULB, WET BULB, DEWPOINT), DUCT CROSS-SECTIONAL AREAS, RPMs, ELECTRICAL POWER, VOLTAGE, NOISE, VIBRATION, ETC. AT INLET AND OUTLET OF DAMPERS, FILTERS, COILS, FANS, ACUS, AHUS, HEAT EXCHANGERS, LOUVERS, CONTROLLERS, CONTROLLED DEVICES, MAIN DUCTS, MAIN BRANCHES, SUB-BRANCHES, RUN-OUTS (OR GRILLES, REGISTERS OR DIFFUSERS).

3.05.7 TEST FOR PROPER OPERATION OF ALL FIRE DAMPERS, SENSORS.

3.05.8 PROVIDE 3 COPIES OF A WRITTEN REPORT INDICATING ALL MEASUREMENTS AND A LETTER CERTIFYING THAT ALL SYSTEMS AND EQUIPMENT HAVE BEEN TESTED AND BALANCED AS REQUIRED.

3.05.9 ACCEPTABLE TAB AGENCIES: MEMBERS IN GOOD STANDING OF NEBB, AABC.



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Rodney, ON N0L 2C0

Revisions

No.	Date	Description
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01	DEC. 04, 2025	PROGRESS
02	FEB. 16, 2026	PERMITTENDER
03	FEB. 20, 2026	ISSUED FOR PERMITTENDER
04		
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No.	Date	For: / To:

Issued to / from:

Drawn By: JDP, VSM, WA Scale: NA

Checked By: HAA Date: 2026-02-20

Sheet Number:

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MECHANICAL SPECIFICATIONS

M201



**Port Glasgow Trailer Park
 Seasonal Office and
 Shower Facility**

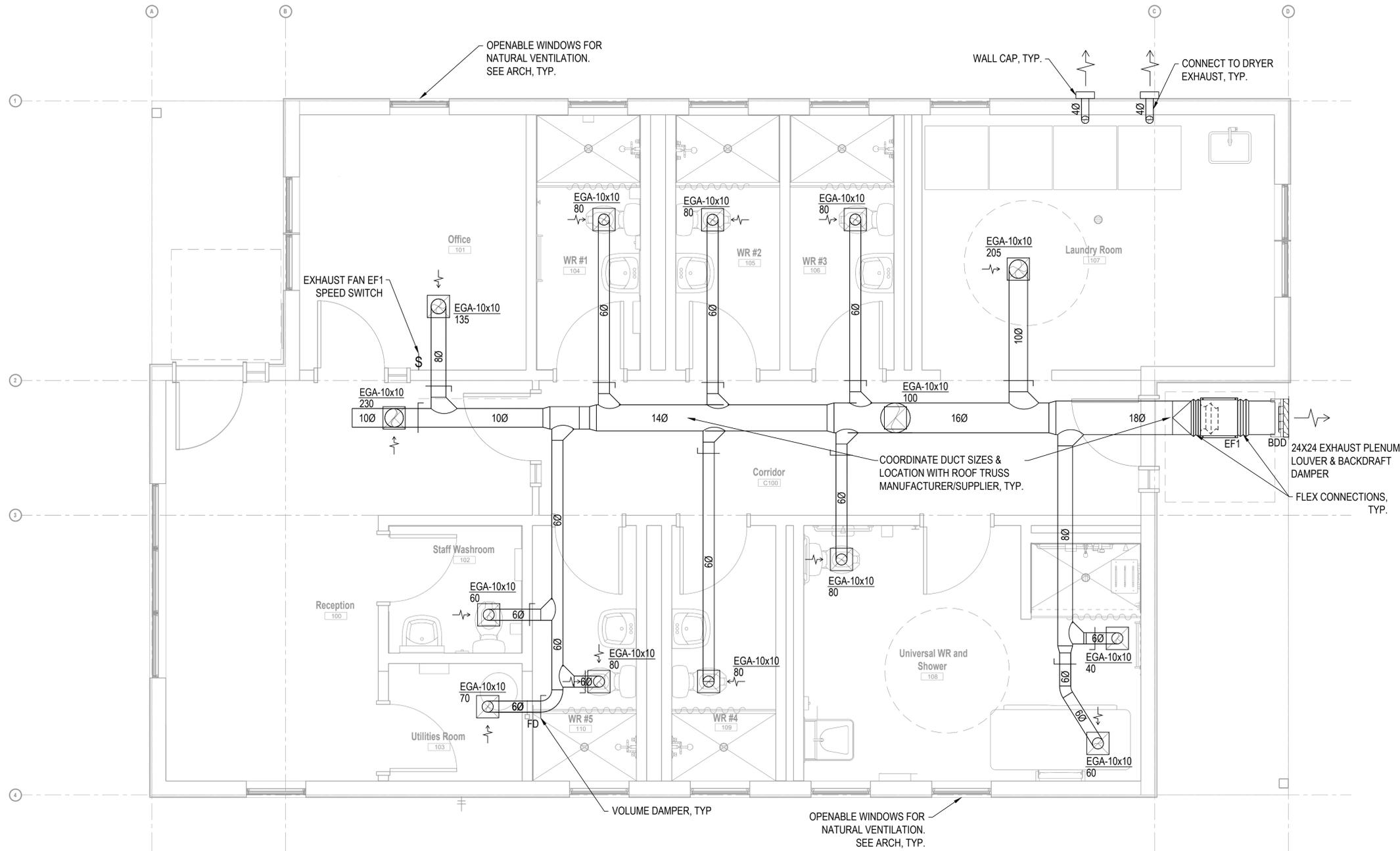
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Checked By:	HAA	Date:	2026-02-20
Sheet Number:	M400		



FLOOR PLAN - HVAC
 SCALE: 1:30

DOMESTIC WATER HEATER SCHEDULE (ELECTRIC)	
ID	HWH1
TANK CAPACITY (GAL)	175
INPUT KW	27
ELECTRICAL (VOLTS/PH/Hz)	240/1/60
STAGED IMMERSION T'STATS	2
NUMBER OF FUSES	12
NO. OF T'STATS	2
RECOVERY CAPACITY (GPH) @ TEMPERATURE RISE	
EQUIVALENT BTU/HR.	92,130
RECOVERY @ 100°F RISE (GPH)	112
MAX DELIVERED TEMP (F)	190
WATER CONNECTION SIZE (IN)	2 1/2
DIMENSIONS (HXW) (IN)	72.5X38.5
SHIP WEIGHT (LBS)	700
NOTES	1
NOTES: 1. BASIS OF DESIGN: RHEEM E SERIES COMMERCIAL ELECTRIC WATER HEATER OR APPROVED EQUAL.	

HOT WATER RECIRCULATION PUMP SCHEDULE	
ID	HWRP1
SERVICE	DHW RECIRC
LOCATION	MECH RM
TYPE	IN-LINE
CAPACITY (GPM)	0.5
PUMP HEAD (FT)	4.5
CONNECTION SIZE (IN)	3/4
MOTOR POWER (WATTS)	25
ELECT (V/PH/Hz)	120/1/60
MAX WORKING PRESSURE (PSI)	
MAX WORKING TEMPERATURE (°F)	150
MANUFACTURER/MODEL	GRUNDFOSUP1 5-10SU7P / TLC
NOTES:	1
NOTES: 1. LEAD FREE BODY CONSTRUCTION.	

DOMESTIC EXPANSION TANK	
ID	ET1
MANUFACTURER & MODEL	WATTS DETA-30
LOCATION	MER
TYPE	FIXED BLADDER
MAXIMUM DHW STORAGE CAPACITY (GAL)	195
PHYSICAL	
TOTAL TANK VOLUME (GAL)	15
ACCEPTANCE VOLUME (GAL)	10.5
MAX PRESSURE (PSI)	150
HEIGHT (IN)	24
DIAMETER (IN)	16
WATER CONNECT SIZE (IN)	1
WEIGHT	64
NOTES:	
NOTES: 1. MAXIMUM CW SUPPLY PRESSURE 80 PSI. INITIAL AIR CHARGE PRESSURE SHALL BE EQUAL TO CW SUPPLY PRESSURE OF 55 PSI. PRESS RELIEF VALVE SHALL BE SET AT 80 PSI. MAXIMUM DHW SUPPLY TEMPERATURE SHALL BE 160F.	

RIGID PIPE INSULATION (I-P)			
SERVICE	OPERATING TEMPERATURE RANGE (°F)	PIPE DIAMETER (IN)	THICKNESS (IN)
CONDENSATE (COLD INDOORS)	45 TO 75	ALL SIZES	1/2
DOMESTIC COLD WATER (INDOORS)	32 TO 75	ALL SIZES	1/2
DOMESTIC HOT WATER & HOT WATER RECIRCULATION	105 TO 140	1 1/4 AND SMALLER	1
		1 1/2 AND LARGER	1 1/2

FLEX ELASTOMERIC UNICELLULAR (COLD SURFACES)	
ITEM	THICKNESS (IN)
WATER METER	1/2
STRAINER HEADS IN COLD PIPING	1/2
REFRIGERANT PIPING	
NOTES:	
NOTES: 1. MINIMUM INSULATION THICKNESSES & INSULATING VALUES SHALL MEET ASHRAE 90.1 & OBC SB-12.	

PLUMBING FIXTURE CONNECTION SCHEDULE							
ID	FIXTURE	CONNECTION SIZE (IN)					NOTES
		COL D	HOT WAT	SANIT	VEN T		
FD	FLOOR DRAIN (3" TRAP)				3	1 1/2	
HB	HOSE BIB	3/4					
L1	LAVATORY	1/2	1/2	1 1/2	1 1/2		
L1H	LAVATORY (BARRIER FREE)	1/2	1/2	1 1/2	1 1/2		
LT	LAUNDRY TRAY 1, 2 & 3 COMPT.	1/2	1/2	1 1/2	1 1/4		
NFHB	NONFREEZE HOSE BIB	1/2"					
SH1	SHOWER	1/2	1/2	3	1 1/2		
SH1H	SHOWER	1/2	1/2	3	1 1/2		
WC1	WATER CLOSET, TANK	1/2		3	1 1/2		
WC1H	WATER CLOSET, TANK	1/2		3	1 1/2		
NOTES:							

EXHAUST FAN SCHEDULE	
ID	1
FAN UNIT MODEL #	SQ-12-M2-VG
CFM	1380
ESP.	1
RPM	1,683
HP	1/2
BHP	0.38
SIZE Ø (IN)	12
VOLT	230
FLA (AMPS)	4
DISCHARGE VELOCITY (FPM)	597
WEIGHT (LBS.)	67
SONES	12.9
NOTES:	
NOTES: 1. BASIS OF DESIGN: GREENHECK. 2. OPTIONS/ACCESSORIES: ACCESS PANELS, INTEGRATED SPEED CONTROLLER DIAL, SIDE DISCHARGE DUCT OPENING 16-3/4" W X 13-1/4" H.	

THERMOSTATIC MIXING VALVE											
ID	MIN. FLOW (GPM)	MAX FLOW (GPM)	DESIGN FLOW (GPM)	CONN. SIZE (IN)	PRESS DROP @ DESIGN FLOW (PSI)	CV	TEMP RANGE (°F)	CONNECTION TYPE	CERTIFICATION	MODEL	NOTES
TMV1	1	22	12.6	1	10.0	4	110 - 150	NPT	ASSE1017	MX127	
NOTES: 1. MAX PRESSURE DIFFERENCE BETWEEN HOT & COLD: 7 PSI. MINIMUM TEMPERATURE DIFFERENCE BETWEEN HOT & COLD: 10F (6C). 2. MAX MIXTURE TEMPERATURE SETTING: 120F. 3. MAXIMUM RECOMMENDED FLOW RATE RECOMMENDED BY MANUFACTURER. 4. BASIS OF DESIGN: HONEYWELL 5. SIZE THERMOSTATIC MIXING VALVE FOR MAXIMUM OF 10 PSI PRESSURE DROP AT DESIGN FLOW.											

DIFFUSER, GRILLE & REGISTER SCHEDULE								
ID	MAX CFM	WIDTH	LENGTH	NECK	PDROP	DESCRP	MODEL	NOTES
EGA-10x10	750	12	12	10	0.1	RECTANGULAR EGGCRATE	PRICE 80 SERIES	

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01	DEC. 04, 2025	PROGRESS
02	FEB. 16, 2026	PERMIT/TENDER
03	FEB. 20, 2026	ISSUED FOR PERMIT/TENDER
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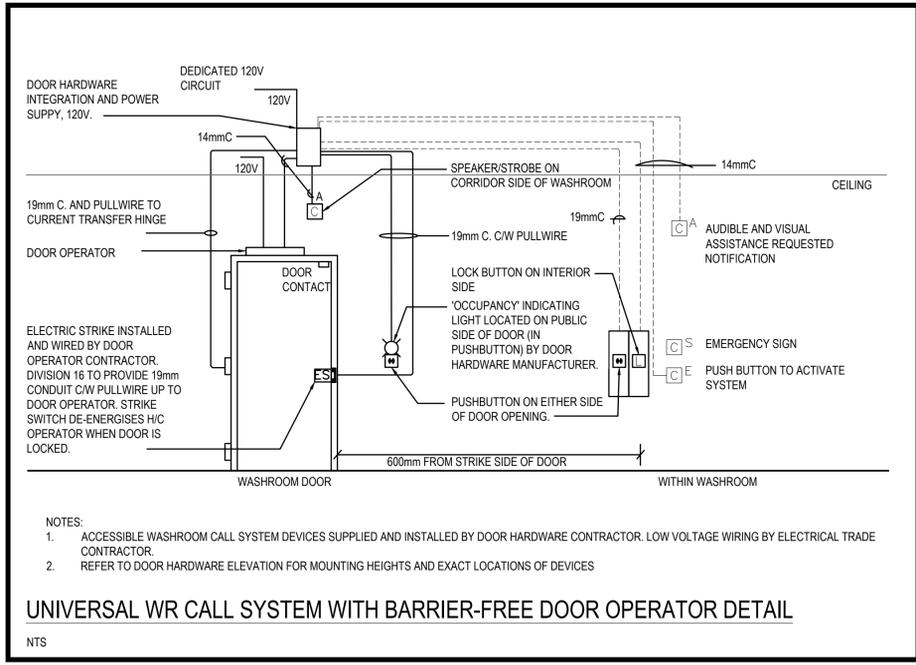
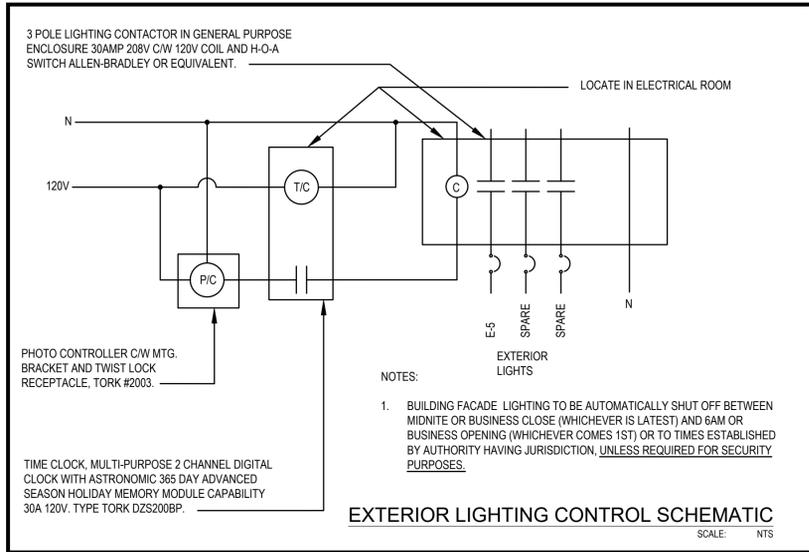
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MECHANICAL SCHEDULES M600

project number: 25-043
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LEGEND		
SYMBOL	DESCRIPTION	MTG HT 6
[Symbol]	LIGHTING FIXTURE	AS NOTED
[Symbol]	WALL MOUNTED LIGHTING FIXTURE	AS NOTED
[Symbol]	DOWNLIGHTING FIXTURE	AS NOTED
[Symbol]	WALL MOUNTED LIGHTING FIXTURE	AS NOTED
[Symbol]	20A 125V SINGLE POLE SWITCH, 2 (TWO POLE), 3 (3-WAY), 4 (4-WAY), K (KEY OPERATED), D (DIMMER), V (LOW VOLTAGE) (C/W PILOT LIGHT), T (TIMER), S (DUAL TECH WALL SWITCH OCCUPANCY SENSOR-120V) (SINGLE GANG), # (DOUBLE GANG), ## (TRIPLE GANG), ### (FOUR GANG), #### (FIVE GANG), ##### (SIX GANG)	1100 (43')
[Symbol]	120V OCCUPANCY DUAL TECHNOLOGY SENSOR	CEILING
[Symbol]	SECURITY MOTION DETECTOR	CEILING
[Symbol]	EMERGENCY LIGHTING BATTERY UNIT No.EB1, WITH TWO HEADS	(*)
[Symbol]	SINGLE HEAD REMOTE EMERGENCY LIGHT	(*)
[Symbol]	DOUBLE HEAD REMOTE EMERGENCY LIGHT	(*)
[Symbol]	20AMP 125VOLT U-GROUND DUPLEX RECEPTACLE	457 (18')
[Symbol]	20AMP 125VOLT U-GROUND GFI DUPLEX RECEPTACLE	457 (18')
[Symbol]	SPECIAL RECEPTACLE (REFER TO DRAWINGS)	AS NOTED
[Symbol]	TELEPHONE OUTLET C/W BACKBOX AND 3/4" (19mm) CONDUIT TO ACCESSIBLE CORRIDOR CEILING SPACE OR CABLE TRAY	457 (18')
[Symbol]	EMERGENCY CALL SYSTEM PUSH BUTTON	1100 (43')
[Symbol]	EMERGENCY CALL SYSTEM AUDIBLE/VISUAL ANNUNCIATOR	1525 (60')
[Symbol]	EMERGENCY CALL SYSTEM SIGN	1340 (53')
[Symbol]	EMERGENCY CALL SYSTEM HORN/STROBE	2440 (96')
[Symbol]	EMERGENCY CALL SYSTEM POWER SUPPLY IN TYPE 1 JUNCTION BOX	ABOVE CEILING
[Symbol]	SINGLE PUSHBUTTON STATION	1040 (41')
[Symbol]	ELECTRIC HEATER	—
[Symbol]	CONDUIT	—
[Symbol]	ELECTRICAL PANEL	1981 (78') TO TOP
[Symbol]	MOTOR CONNECTION (SINGLE OR THREE PHASE)	—
[Symbol]	DISCONNECT SWITCH	1270 (50')
[Symbol]	MANUAL MOTOR STARTER	1170 (46')
[Symbol]	MAGNETIC MOTOR STARTER	1170 (46')
[Symbol]	COMBINATION STARTER AND DISCONNECT	1270 (50')
[Symbol]	THERMOSTAT WALLBOX AND 3/4" CONDUIT WITH PULLWIRE TO ACCESSIBLE CEILING	1200 (47')
[Symbol]	MOTORIZED DAMPER	—
[Symbol]	JUNCTION BOX (REFER TO DRAWINGS)	—
[Symbol]	CONTACTOR	—
[Symbol]	DIRECT CONNECTION (REFER TO DRAWINGS)	AS NOTED
[Symbol]	TIMER	—
[Symbol]	CONDUIT DOWN	—
[Symbol]	CONDUIT UP	—
[Symbol]	CONDUIT UP & DOWN	—
ABBREVIATIONS:		
CL	CEILING MOUNTED	
E	EXISTING TO REMAIN	
GF	GROUND FAULT INTERRUPTING	
HD	HAND DRYER, DYSON 'V' SERIES 120V 1000W SPRAYED NICKEL FINISH	
OC	OVER COUNTER	
OC/GF	OVER COUNTER/GROUND FAULT INTERRUPTING	
PC	PHOTOCELL CONTROLLED	
PC/TC	PHOTOCELL CONTROLLED/TIME SWITCH CONTROLLED	
TC	TIME SWITCH CONTROLLED	
TL	TWISTLOCK	
TR	TAMPER RESISTANT	
WP	WEATHER PROOF	

FIXTURE SCHEDULE			
NOTES:			
1. CONTRACTOR AND FIXTURE SUPPLIER ARE RESPONSIBLE TO PROVIDE ALL PLASTER AND FINISHING FRAMES, MOUNTING HARDWARE, AND ACCESSORIES TO SUIT ARCHITECTURAL CEILING SCHEDULE.			
2. CONTRACTOR AND SUPPLIER ARE RESPONSIBLE TO VERIFY NUMBER OF BALLASTS REQUIRED FOR MULTIPLE SWITCHING OF FIXTURES.			
3. ALL FIXTURES TO BE CSA APPROVED, AND SUITABLE FOR INTENDED INSTALLATION.			
TYPE	DESCRIPTION	LAMPS	MTG
A	17x4 SURFACE LED LUMINAIRE, FLAT PANEL C/W OPAL SMOOTH ACRYLIC DIFFUSER, SURFACE TRIM, DIE-FORMED CODE-GAUGE PRE-PAINTED WHITE STEEL, 4000°K LAMPS (CONFIRM COLOUR TEMP BEFORE ORDERING), 80CRI AND 0-10V DIMMING DRIVER, 120V UNIVERSAL VOLTAGE.	3800 MIN LUMEN 30 W LED	SURFACE ON GYPSUM BOARD CEILING
X	PHILIPS CAT# 1FPZ38B-840-4-DS-UNV DIM-FS14 VISIONEERING, CREE, LITHONIA, METALUX OR APPROVED EQUIVALENT.		
X	EXTERIOR WALLPACK, 2200 LUMENS, 4000K, 70CRI, 12,000 LUMENS, COLOUR BY ARCHITECT, 120V, FULL CUT-OFF, BLACK FINISH.	38W LED	WALL MOUNTED, SEE ARCHL
B	COOPER LUMARK EXTOR4B-W-BK PHILIPS OR APPROVED EQUIVALENT		
B	2' WALL LED, 2400L, 4000K, DIE-FORMED COLD-ROLLED STEEL HOUSING AND END CAPS C/W OCCUPANCY SENSOR.		WALL MOUNTED
C1	4" DIA. RECESSED LED DOWNLIGHT FOR NEW CONSTRUCTION, 4000K, 90 CRI, BAFFLE TRIM AND WHITE FINISH. COOPER-HALO COMM. HC4		RECESS IN GYPSUM CEILING
C2	4" SQUARE RECESSED LED DOWNLIGHT FOR WET/DAMP LOCATION, SPECULAR CLEAR REFLECTOR, WHITE FLANGE, 4000K, 8 CRI. COOPER-HALO COMM. HCSQ4		RECESS

GENERAL NOTES	
1.	DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. OBTAIN ALL DIMENSIONS FROM ARCHITECTURAL PLANS, MANUFACTURER'S SHOP DRAWINGS, AND ON SITE INSPECTIONS.
2.	PRIOR TO INSTALLATION OF BOXES IN WALLS, VERIFY THAT NO INTERFERENCES EXIST. CHECK ARCHITECTURAL PLANS AND ELEVATIONS.
3.	MECHANICAL AND ELECTRICAL TRADES SHALL WORK IN CONJUNCTION WITH ONE ANOTHER SO AS TO AVOID INTERFERENCES BETWEEN PIPING, DUCTWORK, CONDUIT, LIGHTING FIXTURES, ETC.
4.	ALL EXISTING DEAD WIRING AND CONDUIT IN RENOVATED AREAS SHALL BE REMOVED IN ITS ENTIRETY WHERE ACCESSIBLE. WHERE NOT ACCESSIBLE, WIRING ONLY SHALL BE REMOVED AND CONDUIT SHALL REMAIN.
5.	REVIEW ARCHITECTURAL AND MECHANICAL DRAWINGS AND PROVIDE ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO SUBMITTING BID.

EMERGENCY LIGHTING			
PROVIDE EMERGENCY BATTERY UNITS FOR 90 MINUTES, LOADED TO 80% MAX. SIZE WIRE FOR VOLTAGE DROP LIMIT TO LESS THAN 2%.			
EMERGENCY BATTERY UNIT No.	LIGHTING HEADS (4W LED)	EXIT SIGNS (2W LED)	BATTERY WATTS
EB1	5	0	30
EB2	6	0	30

ELECTRICAL DRAWING LIST	
E0.1	SCHEDULES, NOTES AND LEGEND
E0.2	ELECTRICAL SPECIFICATIONS
E1.1	SITE PLAN - ELECTRICAL
E2.1	FLOOR PLAN - LIGHTING
E2.2	FLOOR PLAN - POWER
E3.1	SINGLE LINE DIAGRAM AND PANEL SCHEDULE

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ELECTRICAL SPECIFICATIONS

THESE SPECIFICATIONS DESCRIBE EQUIPMENT AND MATERIALS TO BE INCLUDED IN THE WORK. ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS. THESE SPECIFICATIONS APPLY TO AND GOVERN ALL SECTIONS OF ELECTRICAL WORK, INCLUDING TELECOMMUNICATION AND ELECTRONIC SAFETY AND SECURITY SECTIONS.

1. OBTAIN AND CARRY PROPER AND CORRECT INSURANCE TO FULLY PROTECT THE OWNER AND HIMSELF FROM ANY AND ALL CLAIMS DUE TO ACCIDENT, STRIKES, AND NATURAL CALAMITIES ETC..
2. OBTAIN AND PAY FOR PERMITS REQUIRED BY THE ELECTRICAL SAFETY AUTHORITY AND LOCAL INSPECTION AUTHORITIES FOR THIS WORK. PRESENT FINAL CERTIFICATES TO CONSULTANT AND/OR OWNER.
3. NOT USED.
4. CARRY OUT ALL WORK IN ACCORDANCE WITH OESC (ONTARIO ELECTRICAL SAFETY CODE) REGULATIONS INCLUDING BULLETINS, AND ELECTRICAL SAFETY AUTHORITY INSPECTION REQUIREMENTS.
5. PAY ALL FEDERAL AND PROVINCIAL SALES TAXES APPLICABLE.
6. ALL EQUIPMENT SHALL BE NEW AND CSA (OR EQUIVALENT) APPROVED UNLESS OTHERWISE NOTED. SUPPLY, INSTALL WIRE AND CONNECT ALL EQUIPMENT SHOWN, SPECIFIED OR MENTIONED.
7. VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE SITE CONDITIONS AND UNDERSTAND THE EXTENT OF RENOVATIONS AND/OR NEW WORK.
8. PROVIDE ALL LABOUR AND MATERIALS NECESSARY TO ENSURE THAT POWER LIGHTING, AND ALL OTHER MISCELLANEOUS ELECTRICAL SERVICES ARE MAINTAINED IN FULL OPERATION IN ALL OTHER AREAS OF THE EXISTING BUILDING DURING AND THROUGHOUT THE CONSTRUCTION PERIOD.
9. ALLOW FOR DISCONNECTION RELOCATION, AND RECONNECTION OF EXISTING SYSTEMS DEVICES AS NECESSARY TO ACCOMMODATE THE NEW WORK AND ACCOMMODATE THE MECHANICAL INSTALLATION.
10. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT THE CONTRACTOR PROVIDES COMPLETE AND OPERATIONAL SYSTEMS AS REQUIRED. ANY MISCELLANEOUS ITEMS, HARDWARE, DEVICES, WIRING, HANGERS, SUPPORTS, INSERTS, SLEEVES, ETC. MUST BE PROVIDED AND INCLUDED IN THE BID.
11. SCHEDULE OF CONSTRUCTION: OBTAIN SCHEDULE OF CONSTRUCTION FROM THE GENERAL BEFORE COMMENCEMENT OF WORK AND COORDINATE DETAILS WITH CONSULTANT OWNER, AND ALL TRADES DURING CONSTRUCTION.
12. SHOP DRAWINGS: SUBMIT ONE (1) DIGITAL COPY OF SHOP DRAWINGS FOR LIGHTING FIXTURES AND CONTROLS, EXIT LIGHTS, EMERGENCY LIGHTS AND BATTERY UNITS, DISCONNECT SWITCHES, STARTERS, SWITCHES AND RECEPTACLES, FIRE ALARM SYSTEM, FIRE STOP, RACEWAYS AND FITTINGS, AND HAND DRYERS PANELBOARDS, SWITCHBOARDS AND EMERGENCY CALL SYSTEM (IN GENERAL ALL PROJECT EQUIPMENT) TO CONSULTANT FOR REVIEW.
13. CONTRACTOR SHALL REVIEW EACH SHOP DRAWING AND PRODUCT DATA SHEET, PRIOR TO SUBMITTAL TO ENSURE THE PROPOSED PRODUCT IS CORRECT AS PER THE SPECIFICATIONS. CONTRACTORS SHALL ENDORSE CONFORMANCE TO SPECIFICATIONS AND INCLUDE COMPANY NAME DATE AND SIGNATURE OF THE SUBMITTER.
14. SHORT CIRCUIT COORDINATION AND ARC-FLASH STUDY: PROVIDE A COMPLETE SHORT CIRCUIT AND COORDINATION STUDY. INCLUDE RECOMMENDED CIRCUIT BREAKER SETTINGS. THE STUDY SHALL INCLUDE ARC-FLASH STUDY AND PROVIDE LABELING OF DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH CSA-Z42.
15. STORE MATERIAL OFF GROUND IN DRY LOCATION INDOORS AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION.
16. THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT DURING CONSTRUCTION AND ON COMPLETION OF CONTRACT.
17. CONFER WITH ALL TRADES AND ARRANGE EQUIPMENT IN PROPER RELATION WITH OTHER APPARATUS, DUCTS, PIPES, ETC., AND WITH BUILDING CONSTRUCTION AND ARCHITECTURAL FINISHES.
18. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER/CONSULTANT. PROVIDE WRITTEN GUARANTEE.
19. AS-BUILT DRAWING: ON COMPLETION OF PROJECT AND BEFORE FINAL PAYMENT, SUBMIT ONE (1) SET OF AS-BUILT DRAWINGS WITH ALL CHANGES AND BURIED SERVICES EXACT LOCATIONS NOTED THEREON. PROVIDE AS-BUILT DRAWINGS IN AUTOCAD FORMAT.
20. LABELING: PROVIDE LAMACOID LABELS (3-PLY) WHITE LETTERED ON BLACK BACKGROUND- 1/4" HIGH LETTERING ON ALL ELECTRICAL EQUIPMENT SUPPLIED, MOUNTED AND/OR CONNECTED BY THIS CONTRACT. STATE NAME, VOLTAGE, AND DATE OF INSTALL. MECHANICALLY ATTACH WITH SELF-TAPPING SCREWS. ALL RECEPTACLE COVER PLATES SHALL BE LABELED WITH ADHESIVE TAPE TYPE

LABELS SIMILAR TO P-TOUCH INDICATING POWER SOURCE AND CIRCUIT NUMBER.

21. START-UP: CONTRACTOR SHALL START-UP AND COMMISSION ALL EQUIPMENT AND SYSTEMS INSTALLED UNDER THIS CONTRACT. COMMISSIONING WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CONSULTANT PRIOR TO ACCEPTANCE OF WORK. LINE VOLTAGE AND LOW VOLTAGE LIGHTING CONTROL SYSTEM SHALL BE COMMISSIONED BY A THIRD PARTY.
22. OPERATION AND MAINTENANCE MANUAL: SUBMIT OPERATION AND MAINTENANCE MANUAL CONTAINING OPERATION AND MAINTENANCE DATA FOR ALL EQUIPMENT. INCLUDE APPROVED SHOP DRAWINGS AND AS-BUILT DRAWINGS.
23. PROVIDE FIREPROOFING WHERE CABLES PASS THROUGH FLOORS OR FIRE RATED WALLS. PLUG AND PROVIDE APPROVED FIRE STOP AND SEAL WITH CAULKING COMPOUND ANY HOLES AND OPENINGS LEFT DUE TO DEMOLITION WORK. PRODUCTS SYSTEM SHALL BE CANULC S115 CERTIFIED. HILTI OR 3M PRODUCT.
24. IF ASBESTOS MATERIAL IS ENCOUNTERED, STOP WORK IN THE AFFECTED AREA IMMEDIATELY AND NOTIFY THE CONSULTANT.
25. WIRING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS OTHERWISE APPROVED.
26. ALL WIRING SHALL BE COLOUR CODED AS PER NEC AND BE IDENTIFIED WITH BRADY OR EQUIVALENT SELF-STICKING PERMACODE WIRE MARKERS. ALL JUNCTION BOXES IN CONCEALED CEILING SPACES SHALL BE LABELED WITH PEN MARKER AS TO CIRCUITS CONTAINED THEREIN
27. ALL CONDUCTORS: COPPER WITH TWH OR R-90 OR XLPE INSULATION, MINIMUM #12AWG, UNLESS OTHERWISE NOTED.
28. ELECTRICAL NON-METALLIC TUBING AND FITTINGS: PVC TUBING AND FITTINGS COMPLYING TO CSA C22.2 NO. 227 AND C22.2 NO. 85. COMPLETE WITH MECHANICALLY ATTACHED OR SOLVENT ATTACHED FITTINGS. ALL ENT TUBING, ENT FITTINGS, ENT BOXES AND ACCESSORIES SHALL BE MANUFACTURED BY THE SAME COMPANY AS AS TO FORM A COMPLETE ENT SYSTEM. ENT SYSTEM SHALL BE APPROVED FOR USE IN FIRE RESISTANT RATED CONCRETE FLOOR - CEILING ASSEMBLIES WITH FIRE RESISTANCE RATINGS UP TO 4 HRS. ACCEPTABLE MANUFACTURES ARE COR-LINE BY IPEX (TUBING) KWIKON BY IPEX (FITTINGS AND BOXES).
29. NON-METALLIC SHEATHED CABLE: NON-METALLIC SHEATHED CABLE IS PERMITTED IN OR ON BUILDINGS OF COMBUSTIBLE CONSTRUCTION. NON-METALLIC SHEATHED CABLE SHALL NOT BE USED WHERE THE VOLTAGE EXCEEDS 300V BETWEEN ANY TWO CONDUCTORS. WIRING METHOD OF INSTALLATION SHALL BE AS PER OESC ARTICLE 12-506 TO 12-526.
30. UNLESS OTHERWISE NOTED, EMT SHALL BE USED FOR WIRING AND CONCEALED WHEREVER POSSIBLE. EMT COUPLINGS AND CONNECTORS SHALL BE STEEL SETSCREW CONCRETE TIGHT OR STEEL COMPRESSION RAIN TIGHT. CONDUITS SIZE MINIMUM 3/4" (19 MM), BX CABLE IS ONLY PERMITTED FOR LIGHT FIXTURE DROPS NO LONGER THAN 5FT IN CEILINGS. INSTALL NYLON FISHWIRE IN EMPTY CONDUITS. PROVIDE ALUMINUM STARPS/CLAMPS TO SECURE SURFACE CONDUITS 50MM (2") AND SMALLER. TWO HOLE CLAMPS FOR LARGER CONDUITS. PROVIDE TRAPEZE TYPE SUPPORTS USING 6 MM THREADED RODS AND CHANNELS FOR 2 OR MORE CONDUITS. USE RIGID PVC CONDUIT OUTSIDE BUILDING BELOW GRADE. UP TO AND INCLUDING 2" (50mm), UNLESS NOTED OTHERWISE. USE RIGID TYPE I (CONCRETE ENCASED), TYPE II (DIRECT BURIAL) OR RIGID PVC FOR LARGER SIZES UNLESS NOTED OTHERWISE. INCLUDE SEPARATE GROUNDING CONDUCTOR. ALL JOINTS SHALL BE SOLVENT WELDED AND WATERTIGHT.
31. WIRING FOR OTHER TRADES:
 - A. PROVIDE POWER WIRING FOR ELECTRICAL EQUIPMENT OF OTHER TRADES AS NOTED ON THE DRAWINGS. PROVIDE STARTERS AND DISCONNECT SWITCHES. COORDINATE WITH MECHANICAL FOR EXACT POWER REQUIREMENT AND FINAL CONNECTION ESTABLISHED FROM SHOP DRAWINGS FOR THE EQUIPMENT.
 - B. PROVIDE CONTROL WIRING FOR ALL CONTROL DEVICES OPERATING AT 120V OR GREATER.
 - C. PROVIDE CONDUITS FOR LV CONTROL DEVICES, AND SENSORS. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
32. ALL CUTTING AND PATCHING REQUIRED TO THE BUILDING FOR THE WORK SHALL BE INCLUDED UNDER THE CONTRACT AND MUST BE EXECUTED TO THE SATISFACTION OF THE CONSULTANT. REINFORCEMENT SHALL NEVER BE CUT WITHOUT PRIOR APPROVAL OF THE STRUCTURAL CONSULTANT. MAINTAIN INTEGRITY OF THE FIRE RATED ASSEMBLY WHERE PIERCED BY DUCTS AND CONDUITS.
33. DEFINITIONS: FOLLOWING ARE DEFINITIONS OF WORDS FOUND IN THIS SPECIFICATION AND ON ASSOCIATED DRAWINGS.
 - A. "CONCEALED" - HIDDEN FROM NORMAL SIGHT IN FURRED - SPACES, SHAFTS, CEILING SPACES, WALLS, UNDERFLOOR, AND PARTITIONS.
 - B. "EXPOSED" - ALL ELECTRICAL WORK VISIBLE TO BUILDING OCCUPANTS.

- C. "PROVIDE" - (AND ALL TENSES OF "PROVIDE") SUPPLY INSTALL, WIRE AND CONNECT COMPLETE.
 - D. "INSTALL" - (AND ALL TENSES OF "INSTALL")-INSTALL, WIRE AND CONNECT COMPLETE, PRODUCTS AND SERVICES SPECIFIED.
 - E. "SUPPLY" - SUPPLY ONLY.
 - F. "OR APPROVED EQUAL" - MATERIAL OR EQUIPMENT PROPOSED BY CONTRACTOR, IN LIEU OF THAT SPECIFIED, AS APPROVED BY CONSULTANT.
 - G. "AS INDICATED" - AS SHOWN ON DRAWINGS AND/OR NOTED IN SPECIFICATIONS.
33. FASTENINGS AND SUPPORTS:
 - a. SUPPORT EQUIPMENT, CONDUIT OR CABLES USING CLIPS, SPRING LOADED BOLTS, CLAMPS DESIGNED AS ACCESSORIES TO BASIC CHANNEL MEMBERS.
 - b. INSTALL FASTENERS AND SUPPORT AS REQUIRED FOR EACH TYPE OF EQUIPMENT, CONDUIT AND CABLES AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION.
 34. EQUIPMENT SUPPORT AND BASES:
 - A. PROVIDE STRUCTURAL SUPPORTS OF SHEETSTEEL AND ANGLES. AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
 - B. BUILD CONCRETE BASES 6"(150MM) HIGH, PROVIDE ALL NECESSARY INSERTS, ANCHOR BOLTS, AND OTHERS FASTENERS REQUIRED FOR FLOOR MOUNTED ELECTRICAL EQUIPMENT.
 - C. PROVIDE 19MM (3/4") G15 PAINTED (WITH INTUMESCENT PAINT) PLYWOOD BACKBOARDS FOR ALL EQUIPMENT TO BE SURFACE MOUNTED TO WALL AS REQUIRED BY CURRENT OES CODES.
 35. GROUNDING: GROUND ALL EQUIPMENT IN ACCORDANCE WITH CODE REQUIREMENTS.
 36. DISCONNECT SWITCHES: FUSED AND NON-FUSED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK MECHANISM, LOAD BREAK TYPE WITH DOOR, HANDLE AND SWITCHING MECHANISM INTERLOCK, ARC EXTINGUISHERS, SILVER PLATED WIPE ACTION CONTACTS, AND SPRING REINFORCED FUSE CLIPS, OF SIZES INDICATED, UL CERTIFIED. PROVIDE DISCONNECT SWITCHES AHEAD OF EACH PIECE OF EQUIPMENT WHERE NECESSARY TO MEET CODE REQUIREMENTS. ELEVATOR DISCONNECT SWITCHES SHALL BE COMPLETE WITH AUXILIARY INTERLOCK TO DISABLE EMERGENCY POWER LOWERING OF ELEVATOR WHEN SWITCH IS OPEN AS REQUIRED BY CANULC-B44.
 37. FUSES: [250V] 600V 200,000 RMS SYMMETRICAL INTERRUPTING RATING, HRCJ-3 TYPE. FOR MOTOR PROTECTION: TIME DELAY 200,000A RMS SYMMETRICAL RATING, HRCJ-J TIME DELAY TYPE.
 38. BREAKERS: PLUG-IN MOLDED CASE CIRCUIT BREAKERS, FULL MODULE, QUICK MAKE, QUICK BREAK TYPE FOR MANUEL AND AUTOMATIC OPERATION. GENERALLY THERMAL-MAGNETIC TRIPPING, EXCEPT FOR BREAKERS LARGER THAN 150 A, WHICH SHALL BE EQUIPPED WITH ELECTRONIC TRIP. ARC-FAULT BREAKERS SHALL BE COMBINATION ARC-FAULT INTERRUPTION TYPE. GFI BREAKERS SHALL BE CLASS-A TYPE THAT WILL TRIP WHEN A FAULT CURRENT TO GROUND IS 6mA OR MORE FOR PEOPLE PROTECTION.
 39. PANEL BOARDS LIGHTING AND POWER: SHALL BE PRODUCTS OF ONE MANUFACTURER WITH PLUG-IN BREAKERS. MINIMUM 22,000-AC SYMMETRICAL @ 240V OR AS INDICATED ON THE DRAWINGS. FULLY RATED COPPER (ALUMINUM) BUS FLUSH OR SURFACE TRIM AS INDICATED. ALL PANEL BOARDS TO HAVE LOCKING HINGED DOOR AND TYPED PLASTIC DIRECTORY INSIDE DOOR IN PLASTIC SLEEVE. PROVIDE 2 SET OF KEYS FOR EACH.
 40. CONTACTORS: TO COMPLY WITH CSA E22.2 NO14 SHALL BE MECHANICALLY HELD CONTROLLED BY PILOT DEVICES AND RATED FOR THE TYPE OF LOAD CONTROLLED. NEMA-RATED GENERALLY 3-POLE 600VOLTS AC MAX RATED 10 NEMA-1 ENCLOSURE OR TO SUIT ENVIRONMENT IN WHICH INSTALLED. COMPLETE WITH 2 NORMALLY OPEN AND 2 NORMALLY CLOSED AUXILIARY CONTACTS, COMPLETE WITH INDICATING LIGHT, STOP-START PUSH BUTTON AND HAND-OFF-AUO SELECTOR SWITCH.
 41. MOTOR STARTERS: CSA CERTIFIED EEMAC RATED, SIZED AS INDICATED COMPLETE WITH NEMA ENCLOSURE. SUITABLE FOR ENVIRONMENT IN WHICH INSTALLED. HALF SIZED OR IEC RATED STARTERS ARE NOT ACCEPTABLE. CONTROL TRANSFORMER 100VA OR LARGER 120V PROTECTED BY CONTROL FUSES. INCLUDE HAND-OFF-AUO 3 POSITION MAINTAINED CONTACT, ON-OFF SELECTOR SWITCHES. PROVIDE 2-NC AND 2 NO. AUXILIARY CONTACTS. STARTERS SHALL HAVE THERMAL-MAGNETIC OVERLOAD RELAYS WITH EXTERNAL MANUEL RESET. ALL 3 PHASE STARTERS SHALL HAVE SINGLE PHASING PROTECTION.
 42. BOXES FOR INDOOR USE: CODE GAUGE ELECTRO-GALVANIZED STEEL FOR CONCEAL MOUNTING AND GALVANIZED CAST FERRALOY OR CAST BRUSHED ALUMINUM FOR EXPOSED USE, UNLESS OTHERWISE NOTED.
 43. BOXES FOR OUTDOOR USE: GALVANIZED CAST FERRALOY COMPLETE WITH NEOPRENE GASKET.
 44. FIXTURE BOXES: ELECTRO-GALVANIZED STEEL 100mm (4") OCTAGON COMPLETE WITH 10mm (3/8") FIXTURE STUD WHERE NECESSARY.

45. WHERE OUTLET BOXES ARE INSTALLED IN EXTERIOR WALLS AND/OR INSULATED CEILING HAVING ASSOCIATED VAPOR BARRIERS ON THE WARM SIDE OF THE INSULATION AND WHERE OUTLET BOXES PERFORATE THE VAPOR BARRIER, PROVIDE ELECTRICAL BOX VAPOR BARRIERS BEHIND AND AROUND OUTLET BOXES. IN ACOUSTIC PARTITIONS, PROVIDE PUTTY PAD AROUND BACK AND SIDES OF SWITCH AND RECEPTACLE BOXES, AND PROVIDE GASKETS BEHIND THE COVERPLATES.
46. SWITCHES AND RECEPTACLE BOXES SHALL BE 1104 TYPE FOR RECESSED MOUNTING. LOCATE SWITCHES ON LATCH SIDE OF DOORS. CHANGE LOCATION OF OUTLETS WITHIN 10 FEET OF ORIGINAL LOCATION WITH NO EXTRA COST PROVIDING INFORMATION IS GIVEN BEFORE INSTALLATION.
47. SWITCHBOARD: PROVIDE SERVICE ENTRANCE SWITCHBOARD CONSTRUCTED OF SHEET ANGLES, AND SHEET STEEL SECTIONS AND BASE CHANNEL IN NEMA TYPE 1 ENCLOSURE WITH ASA49 GREY FINISH. TESTED AND CERTIFIED TO CSA 22.2 No31. MAINS RATING 100% AS INDICATED FOR 208/120V 3Ø 4WIRE SYSTEM. FRONT ACCESSIBLE ONLY. FRONT AND BACK ALIGNED WITH ADD-ON DISTRIBUTION SECTION. COPPER BUS BARS INCLUDING NEUTRAN AND GROUND. BRACING RATING 65 KA UTILITY METERING SECTIONS FOR MOUNTING OF CTs, PTs AND WATT-HOUR METER. COORDINATE / LIAISE WITH UTILITY COMPANY FOR MOUNTING OF INSTRUMENTS.
48. SPLITTERS, JUNCTION/PULL BOXES AND CABINET: PROVIDE SPLITTERS, JUNCTION/PULL BOXES AND CABINETS AS REQUIRED OR INDICATED. SPLITTER SHALL BE CONSTRUCTED OF SHEET METAL ENCLOSURE, WELDED CORNERS AND FORMED HINGED COVERS SUITABLE FOR LOCKING IN CLOSED POSITION. MAIN AND BRANCH LUGS/CONNECTION BLOCKS TO MATCH REQUIRED SIZE AND NUMBER OF INCOMING AND OUTGOING CONDUCTOR. PROVIDE MINIMUM THREE SPARE TERMINALS. JUNCTION/PULL BOXES OF WELDED STEEL CONSTRUCTED WITH SCREW-ON FLAT COVERS FOR SERVICE MOUNTING. COVERS FOR FLUSH MOUNTING BOXES SHALL EXTEND 1" (25MM) ALL AROUND. CABINETS SHALL BE CONSTRUCTED OF WELDED SHEET STEEL WITH HINGED DOOR HANDLE, LOCK AND CATCH. TYPE T SHALL BE PROVIDED WITH 12 MM G15 PLYWOOD BACKBOARD.
49. RECEPTACLES: EXTRA HEAVY DUTY GRADE DUPLEX RECEPTACLE, 2ØA, T-SLOT, 125VOLT, 2 POLE, 3-WIRE GROUNDING, NEMA 5-20r. FLUSH NYLON FACE, BACK AND SIDE WIRED, WHITE COLOUR, HUBBELL CAT# HBL 5362WR OR EQUIVALENT BY PASS & SEYMOUR.
50. GFCI RECEPTACLES: SPECIFICATION GRADE, TAMPER RESISTANT, DUPLEX GFCI RECEPTACLE, 2ØA, 125 VOLT, TRIP LEVEL 4 TO 6 mA MEETING UL CLASS A CERTIFICATION. TRIP TIME 0.025 SECOND NOMINAL, A.I.C. 10,000 A, WHITE COLOUR, HUBBELL CAT# GFR1ST20W OR EQUIVALENT BY PASS & SEYMOUR.
51. 120V SWITCHES: INDUSTRIAL EXTRA HEAVY DUTY SPECIFICATION GRADE TOGGLE SWITCHES, 15A, 120V AC, TOGGLE BACK AND SIDE WIRED, WHITE COLOUR, PASS&SEYMOUR #P5S1AC1W OR EQUIVALENT BY HUBBELL #HBL1201W.
52. WALLPLATES AND COVERS: METAL 302/304 TYPE STAINLESS STEEL WALLPLATES WITH TAMPER-RESISTANT SECURITY SPANNER HEAD SCREWS, HUBBELL CAT # NPI SERIES (SWITCH), HUBBELL CAT# NP8 SERIES (DUPLEX RECEPTACLE) TO SUIT STYLE OF SWITCHES AND RECEPTACLE OR EQUIVALENT BY PASS & SEYMOUR.
53. MOUNT DEVICES AT HEIGHTS SHOWN ON DRAWINGS. COMPLY WITH ADA, BARRIER FREE DESIGN.
54. LED FIXTURES TO DELIVER L80 PERFORMANCE, MINIMUM 80CRI, >50,000 HOURS, HIGH EFFICIENCY DRIVERS, 120V OR LOW VOLTAGE (0-10V) AS NOTED.
55. PROVIDE, EMERGENCY LIGHTING AND EXIT LIGHTING SHOWN. EMERGENCY LIGHTING 4W LED, 12 VOLT DC OUTPUT VOLTAGE, 120V AC SUPPLY VOLTAGE. LUMACELL, BEGHELLI, STANPRO, AIMLITE.
56. DRY TYPE TRANSFORMERS: DRY TYPE TRANSFORMERS COMPLYING TO CAN/CSA-C 802-COPPER CONDUCTOR TRANSFORMERS OF ONE MANUFACTURER THROUGHOUT PROJECT. MAXIMUM LOSSES AS PER CAN/CSA-C802- VENTILATED TYPE INCORPORATING 220 C INSULATION SYSTEM AND DESIGNED NOT TO EXCEED 115 C TEMP. RISE ABOVE A 40 C AMBIENT UNDER FULL LOAD CONDITIONS. TAPS SHALL BE PROVIDED ON THE PRIMARY SIDE OF TRANSFORMER. ENCLOSURE SHALL BE SPRINKLER PROOF, VENTILATED FOR INDOOR USE.
57. ELECTRIC HEATING UNITS AND THERMOSTAT: SUPPLY AND INSTALLATION OF ELECTRIC HEATERS SHALL BE BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE POWER CONNECTION. SET THERMOSTATS AT 70°F (21°C).
58. LIGHTING CONTROL: LIGHTING CONTROL SYSTEM IS BASED ON WATT STOPPER DLM LIGHTING CONTROLS EQUIPMENT, SYSTEM BY GREENGATE IS ACCEPTABLE. OTHER MANUFACTURERS ARE ACCEPTABLE IF APPROVED BY CONSULTANT.

- B. OPERATES AT 120V 1200W, SHALL HAVE AN ADJUSTABLE TIME DELAY OF 15 TO 30 MINS (UT-355)
 - C. DUAL TECH LINE VOLTAGE CEILING SENSOR FOR ROOMS TO DETECT OCCUPANCY AND TURN LIGHTS "ON" AND "OFF" WHEN VACANT FOR 10MINS (DT-355)
59. TIME SWITCHES: TORK NSI/INTERMATIC PARGON ASTRO DIAL TYPE WITH SKIP-A-DAY FEATURE.
 60. DATA AND TELECOM SYSTEM: PROVIDE COMPLETE RACEWAY SYSTEM FOR VOICE AND DATA C/W BACK BOXES AND COVER PLATE.
 61. UNIVERSAL WASHROOM EMERGENCY CALL SYSTEM: UNIVERSAL WASHROOM EMERGENCY CALL SYSTEM MUST INCLUDE AUDIBLE AND VISUAL SIGNALS INSIDE AND OUTSIDE THE WASHROOM, ACTIVATED BY A USER-OPERATED CLEARLY MARKED BUTTON.
- THE SYSTEM IS DESIGNED AS PER SECTION 3.8 OF OBC.
- THE CONTRACTOR MUST ADHERE TO ARTICLE 3.8.1.5 FOR CONTROLS, ARTICLE 3.8.1.6 FOR LIGHTING, AND 3.8.3.12 UNIVERSAL WASHROOMS FOR PROVISION AND INSTALLATION OF THE EMERGENCY CALL SYSTEM TO SENTENCE CLAUSES 3.8.3.12(1)(i), (k), AND 3.8.3.12(2)(a), (b) OF OBC.
- THE SYSTEM SHALL WORK IN CONJUNCTION WITH AUTOMATIC DOOR OPERATORS.
- SPECIFICATIONS:
- ACTIVATION: MUSHROOM-STYLE, MAINTAINED CONTACT PUSH BUTTON LOCATED INSIDE THE BATHROOM.
- SIGNAGE: A TACTILE SIGN WITH THE WORDING: "IN THE EVENT OF AN EMERGENCY, PUSH EMERGENCY BUTTON AND AN AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE." WITH LETTERS AT LEAST 25 MM HIGH AND A 5 MM STROKE SHALL BE POSTED ABOVE THE EMERGENCY BUTTON.
- INSIDE INDICATION: VISUAL AND AUDIBLE SIGNAL TO CONFIRM THE ALARM IS ACTIVE.
- OUTSIDE INDICATION: VISUAL (STROBE) AND AUDIBLE SIGNAL (DOME LIGHT/SOUNDER) MOUNTED ABOVE THE DOOR OR AS DIRECTED BY THE OWNERT TO ALERT PERSONNEL.
- PUSH TO OPEN BUTTON: WITH FEATURES TO INDICATE OCCUPIED AND VACANT STATUS.
- PUSH TO LOCK BUTTON: WITH FEATURES TO INDICATE DOOR LOCKED AND DOOR UNLOCKED.
- INCLUDE ALL NECESSARY DEVICES AND RELAYS.
- CAMDEN MODEL CXWC13XF OR APPROVED EQUAL.

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8650 Furnival Rd,
Rodney, ON N0L 2C0

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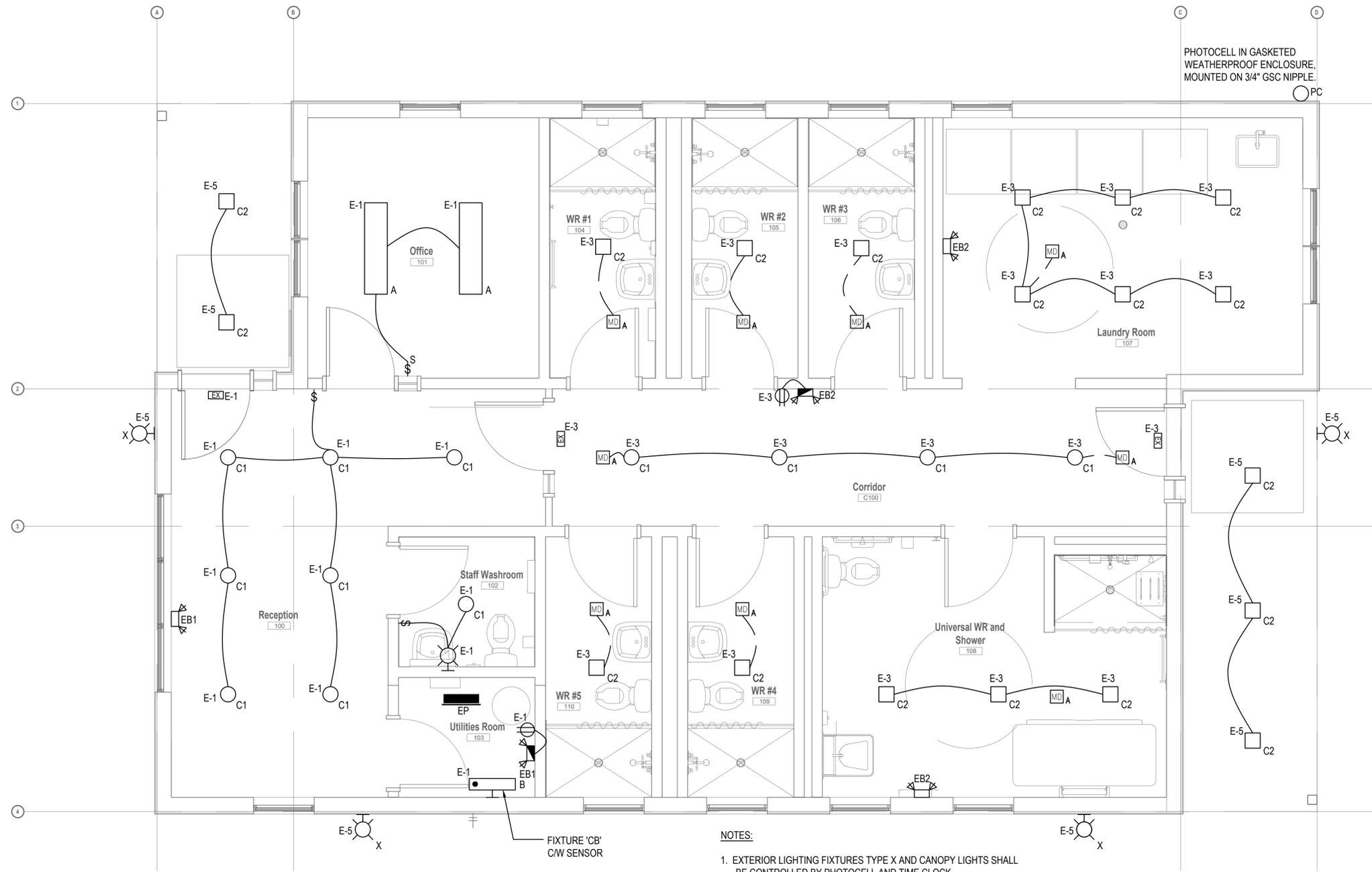
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ELECTRICAL SPECIFICATIONS

E0.2

project number: 25-043
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NOTES:

1. EXTERIOR LIGHTING FIXTURES TYPE X AND CANOPY LIGHTS SHALL BE CONTROLLED BY PHOTOCELL AND TIME CLOCK.

FLOOR PLAN - LIGHTING
SCALE: 1:30 = 1:1

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FLOOR PLAN - LIGHTING

E2.1

project number: 25-043



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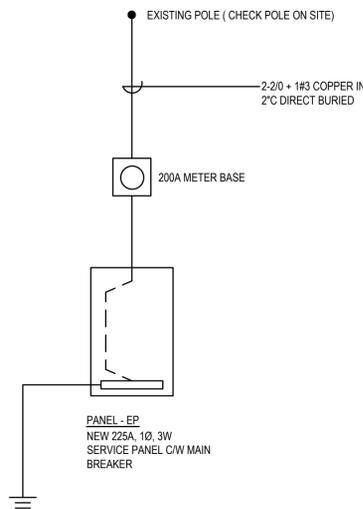
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**Port Glasgow Trailer Park
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 Shower Facility**
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project number: 25-043



NOTES:
 1. THE SCOPE RELATED TO NEW SERVICE IS TO PROVIDE SECONDARY CABLE FROM EXISTING POLE TO NEW BUILDING PANELBOARD.

PROPOSED SINGLE LINE DIAGRAM - WR BUILDING
 SCALE: NTS

ELECTRICAL PANEL - EP		MTD. BOLT ON							
225 AMP 120/240V 1Ø, 3W		200 A MAIN BKR							
LOCATION: UTILITIES RM		FEED: TOP (BOTTOM)							
BUSSENG. COPPER		ENCLOSURE: TYPE 1							
		I.C.: 42 (22,10) KAC							
WATTS	FOR	P	AMP	CCT	CCT	AMP	P	FOR	WATTS
*	LIGHTING - OFFICE AREA	1	15	1	2	20	1	DOOR OPERATOR (DE-100)	*
*	LIGHTING - PUBLIC AREA	1	15	3	4	20	1	DOOR OPERATOR (DE-C100)	*
*	LIGHTING-EXTERIOR&CANOPY	1	15	5	6	20	1	DOOR OPERATOR (DE-108)	*
*	EM. CALL SYSTEM	1	15	7	8	20	1	SEPTIC TANK MONITOR PANEL	*
*	REC. ADULT TABLE	1	20	9	10	20	1	REC. RMS. 100, 102, 103	*
*	SPARE	1	15	11	12	20	1	REC. RM. 101	*
*	SPARE	1	15	13	14	20	1	REC. C100, RM 107, 108	*
*	SPARE	1	15	15	16	20	1	DEDICATED REC. WASHER 1	*
*	SPARE	1	20	17	18	20	1	DEDICATED REC. WASHER 2	*
*	SPARE	1	20	19	20	40	2	DEDICATED REC. DRYER 1	7,500
*	SPARE	1	20	21	22	40	2	DEDICATED REC. DRYER 2	7,500
500	EXHAUST FAN	2	15	23	24	40	2	DEDICATED REC. DRYER 2	7,500
				25	28				
*	REC. OUTDOOR	1	20	27	28	150	2	HOT WATER HEATER HWH	27,000
150	HOT WATER REC. PUMP HWRP	1	20	29	30				
*	*	*	*	31	32	*	*	RESERVED SPACE	*
*	*	*	*	33	34	*	*	RESERVED SPACE	*
*	*	*	*	35	36	*	*		*
*	*	*	*	37	38	*	*		*
*	*	*	*	39	40	*	*		*
*	*	*	*	41	42	*	*		*
*	*	*	*	43	44	*	*		*
*	*	*	*	45	46	*	*		*
*	*	*	*	47	48	*	*		*
*	*	*	*	49	50	*	*		*
*	*	*	*	51	52	*	*		*
*	*	*	*	53	54	*	*		*

* CONFIRM SIZE BEFORE ORDERING BREAKER
 L.O. LOCK-ON BREAKER
 PCITC PHOTOCELL/TIME/CLOCK
 GF GROUND FAULT BREAKER

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PANEL SCHEDULE & SINGLE LINE DIAGRAM

E3.1

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