



CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

ARCHITECT
THOMAS BROWN ARCHITECTS INC.
 197 SPADINA STREET, SUITE 500
 TORONTO, ON
 M5T 2C8
 TEL: (416) 364-5710 ext 101

STRUCTURAL CONSULTANT
SALAS O'BRIEN
 2235 SHEPPARD AVE. E. SUITE 1100
 TORONTO, ON
 M2J 5B5
 TEL: (416) 635-9970

MECHANICAL CONSULTANT
JAIN CONSULTANTS INC.
 7405 EAST DANBRO CRESCENT
 MISSISSAUGA, ON
 ON L5N 6P8
 TEL: (905) 285-9900

ELECTRICAL CONSULTANT
JAIN CONSULTANTS INC.
 7405 EAST DANBRO CRESCENT
 MISSISSAUGA, ON
 ON L5N 6P8
 TEL: (905) 285-9900

SITE SERVICING CONSULTANT
MGM CONSULTING INC.
 400 BRONTE ST. SOUTH
 MILTON, ON
 L5T 0H7
 TEL: (905) 875-1228

ARCHITECTURAL DRAWING LIST

SHEET	DRAWING TITLE
A0.0	DRAWING INDEX & OBC MATRIX
A0.1	GUIDE TO USE OF DRAWINGS, TYPICAL DETAIL LIST, ABBREVIATIONS
A0.2	EXTERIOR & INTERIOR ASSEMBLIES
A0.3	FIXTURE MOUNTING HEIGHTS
A1.1	FIRE, LIFE SAFETY, & AODA REQUIREMENTS
A2.1	SITE SURVEY
A2.2	SITE DEMOLITION, SITE DETAILS
A2.3	TREE INVENTORY/REMOVAL/PRESERVATION PLAN
A2.4	TREE INVENTORY/REMOVAL/PRESERVATION PLAN SCHEDULES
A2.7	SITE PLAN & SITE PLAN GENERAL NOTES
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A2.9	GENERAL SITE DETAILS
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A3.1	FOUNDATION PLAN
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A3.3	GROUND FLOOR PLAN - GENERAL ARRANGEMENT
A3.4	GROUND FLOOR - WALL AND WINDOW LAYOUT
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A6.1	CLADDING, GLAZING AND LOUVER ELEVATIONS
A6.2	CLADDING, GLAZING AND LOUVER ELEVATIONS

ARCHITECTURAL DRAWING LIST

SHEET	DRAWING TITLE
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A7.2	BUILDING SECTIONS
A7.3	BUILDING SECTIONS
A8.1	SECTION DETAILS
A8.2	SECTION DETAILS
A8.3	SECTION DETAILS
A8.4	SECTION DETAILS
A8.5	APPARATUS BAY AXO VIEW
A9.1	HOSE TOWER PLAN AND SECTION
A9.2	HOSE TOWER DETAILS
A10.1	FLOOR FINISH AND FURNITURE PLAN
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A11.1	REFLECTED CEILING PLAN
A12.1	WASHROOM PLAN & ELEVATIONS
A12.2	WASHROOM DETAILS
A13.1	MILLWORK PLANS AND ELEVATIONS & DETAILS
A13.2	MILLWORK PLANS AND ELEVATIONS & DETAILS
A13.3	MILLWORK DETAILS
A13.4	MILLWORK SCHEDULE DOOR SCHEDULE
A13.5	MISCELLANEOUS DETAILS
A13.6	DOOR FINISH SCHEDULE

STRUCTURAL DRAWING LIST

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S1-02	FOUNDATION PLAN
S1-03	ROOF FRAMING PLAN
S1-04	HIGH ROOF FRAMING PLAN
S1-05	LOADING PLANS AND GLULAM MOMENT FRAME ELEVATION
S1-06	CONCRETE WALL ELEVATIONS
S2-02	FOUNDATION SECTIONS
S4-01	GENERAL NOTES
S4-02	TYPICAL DETAILS
S4-03	TYPICAL NOTES

MECHANICAL DRAWING LIST

SHEET	DRAWING TITLE
M1.1	FLOOR PLAN - PLUMBING
M1.2	MEZZANINE PLAN - PLUMBING
M2.0	SITE PLAN - HVAC
M2.1	FLOOR PLAN - HVAC
M2.2	ROOF PLAN - HVAC
M2.3	FLOOR PLAN - HVAC PIPING
M2.4	MEZZ. MECH RM FLOOR PLAN & SECTIONS - HVAC
M2.5	SCHEDULES
M2.6	DETAILS
M2.7	SCHEDULES
M2.8	SCHEDULES
M3.1	FLOOR PLAN - SPRINKLERS
M3.2	MEZZANINE PLAN - SPRINKLERS

ELECTRICAL DRAWING LIST

SHEET	DRAWING TITLE
E1.0	LEGEND, SCHEDULE AND DETAILS
E1.1	SITE PLAN - ELECTRICAL LAYOUT
E2.1	LIGHTING LAYOUT - GROUND FLOOR
E2.2	LIGHTING LAYOUT - MEZZANINE PLAN
E3.1	POWER & SYSTEMS LAYOUT - GROUND FLOOR
E3.2	POWER & SYSTEMS LAYOUT - MEZZANINE LEVEL
E3.3	POWER & SYSTEMS LAYOUT - ROOF PLAN
E4.0	SINGLE LINE DIAGRAM
E5.0	SCHEMATICS & DETAILS
E6.0	FIRE ALARM SYSTEM

LANDSCAPE CONSULTANT
STRYBOS BARRON KING LTD.
 5770 HURONTARIO ST.
 MISSISSAUGA, ON
 L5R 3G5

LANDSCAPE DRAWING LIST

SHEET	DRAWING TITLE
L100	LANDSCAPE PLAN
L200	LANDSCAPE DETAILS

ONTARIO BUILDING CODE DATA MATRIX

PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY

Name of Practice	THOMAS BROWN ARCHITECTS INC.	Name of Project	CITY OF VAUGHAN 7-12 P2104	OBC REFERENCE [1]				
Address 1	197 SPADINA AVENUE, SUITE 500	Location/Address	9541 WESTON ROAD, WOODBRIDGE, ON, L4H 3A5					
Address 2	Toronto, ON M5T 2C8	Contact	Chris Kubblings					
3.00 BUILDING CODE VERSION	O.Reg. 332/12	LAST AMENDMENT	O.Reg. 762/20					
3.01 PROJECT TYPE	New Construction			[A] 1.1.2.				
3.02 MAJOR OCCUPANCY CLASSIFICATION	OCCUPANCY	USE		3.1.2.1.(1)				
	D Business & Personal Services	Administrative Offices & Fire Station						
	F3 Low Hazard Industrial	Storage Garage						
3.03 SUPERIMPOSED MAJOR OCCUPANCIES	N/A			3.2.2.7.				
3.04 BUILDING AREA (m²)	DESCRIPTION	EXISTING	NEW	TOTAL [A] 1.4.1.2.				
	Ground Floor	0.00	845.40	845.4				
	TOTAL	-	845.40	845.4				
3.05 GROSS AREA (m²)	DESCRIPTION	EXISTING	NEW	TOTAL [A] 1.4.1.2.				
	Ground Floor	0.00	916.10	916.1				
	TOTAL	-	916.10	916.1				
3.06 MEZZANINE AREA (m²)	DESCRIPTION	EXISTING	NEW	TOTAL 3.2.1.1.				
	N/A	0.00	70.70	70.7				
	TOTAL	-	70.70	70.7				
3.07 BUILDING HEIGHT	1 STOREYS ABOVE GRADE	14.50	(m) ABOVE GRADE	[A] 1.4.1.2. & 3.2.1.1.				
	0 STOREYS BELOW GRADE			3.2.6				
3.08 HIGH BUILDING	No			3.2.6				
3.09 NUMBER OF STREETS/ FIREFIGHTER ACCESS	1 STREET(S)			3.2.2.10. & 3.2.5.				
3.10 BUILDING CLASSIFICATION (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY)	3.2.2.56. Group D, up to 2 Storeys, Sprinklered			3.2.2.20-83.				
	3.2.2.78. Group F, Division 3, up to 2 Storeys							
3.11 SPRINKLER SYSTEM	Required	PROVIDED:	Entire Building	3.2.1.5. & 3.2.2.17.				
	DESCRIBE	Sprinkler System is part of Contract scope		3.2.9.				
3.12 STANDPIPE SYSTEM	Not Required			3.2.4.				
3.13 FIRE ALARM SYSTEM	Required	TYPE PROVIDED	Single Stage					
	Fire Alarm System provided as part of Contract							
3.14 WATER SERVICE/ SUPPLY IS ADEQUATE	Yes			3.2.2.20-83.				
3.15 CONSTRUCTION TYPE	RESTRICTIONS	Combination Permitted		3.2.1.4.				
	ACTUAL	Combination	HEAVY TIMBER CONSTRUCTION	YES				
3.16 IMPORTANCE CATEGORY	Post-Disaster			4.1.2.1.(3), 4.1.2.1.B.				
3.17 SEISMIC HAZARD INDEX (IE Fa Sa (0.2)) =	0.12	Seismic Design Required for Table 4.1.8.18. Items 6 to 21		4.1.8.18.(1)				
3.18 REASONING FOR REQUIREMENT	Importance Category and Seismic Hazard Index			4.1.8.18.(2)				
3.19 OCCUPANT LOAD	FLOOR LEVEL/AREA	OCCUPANCY TYPE	BASED ON	OCCUPANT LOAD (PERSONS)				
	First Floor	Group D & F3	Design of space	10				
	TOTAL			10				
3.20 HAZARDOUS SUBSTANCES	No			3.3.1.2. & 3.3.1.19.				
3.21 REQUIRED FIRE SEPARATIONS	1.5hr	Storage Garage Separation Between Group D & F3		3.3.4.3				
	N/R	Janitor's Closet		3.6.1.20				
	1hr	Storage Room		3.3.4.3				
	1hr	Mechanical Room (Service Room)		3.6.2.1				
	1hr	Electrical Room (Service Room)		3.6.2.1				
	1hr	I.T Room (Service Room)		3.6.2.1				
	1hr	Sprinkler Room (Service Room)		3.6.2.1				
3.22 REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY	RATING (H)	LISTED DESIGN NO. ULC OR ASSEMBLY SB-2	NONCOMBUSTIBLE IN LIEU OF RATING?				
	FLOORS OVER BSMT	N/A	N/A	N/A				
	FLOORS	60 min	N/A	YES				
	MEZZANINE	N/A	N/A	N/A				
	ROOF	N/A	N/A	N/A				
	SUPPORT ASSEMBLY	RATING (H)	LISTED DESIGN NO. ULC OR ASSEMBLY SB-2	NONCOMBUSTIBLE IN LIEU OF RATING?				
	FLOORS	60 min	N/A	YES				
	MEZZANINE	N/A	N/A	N/A				
	ROOF	N/A	N/A	N/A				
3.23 SPATIAL SEPARATION	WALL	EBF AREA (m²)	L.D. (m) OBC	L/H OR H/L	REQUIRED FRR	CONSTRUCTION TYPE	CLADDING TYPE	3.2.3.
	North	367	23.00	N/A	N/R	Combination	Combination	
	West	130	31.00	N/A	N/R	Combination	Combination	
	East	144	16.00	N/A	N/R	Combination	Combination	
	South	367	6.00	N/A	45min	Combination	Combination	
	WALL	L.D. (m) OBC	L.D. (m) ACTUAL	Permitted Max. % of Openings	Proposed % of Openings	Listed Design or Description		
	North	23.00	23.30	100.00%	12.93%	N/A		
	West	31.00	31.07	100.00%	49.11%	N/A		
	East	16.00	16.76	100.00%	16.90%	N/A		
	South	6.00	6.54	59.56%	13.33%	N/A		
3.24 BARRIER-FREE DESIGN	Yes							3.8.
3.25 BARRIER-FREE ENTRANCES	No. OF ENTRANCES PEDESTRIAN ENTRANCES			2				3.8.1.2
	No. OF ENTRANCES REQ'D TO BE BARRIER FREE			1				3.8.1.2
3.26 BUILDING EXITS	DESCRIPTION	REQUIRED	PROVIDED					3.4.2.1
	Ground Floor	2	2					
3.27 LOCATION OF EXITS	OCCUPANCY	REQUIRED	PROVIDED					3.4.2.5
	Business & Personal Services	40m						
	Low Hazard Industrial	45m						
3.28 PLUMBING FIXTURE REQUIREMENTS RATIO:	MALE:FEMALE = 50:50 EXCEPT AS NOTED OTHERWISE							3.7.4.
	FLOOR LEVEL/AREA	OCCUPANT LOAD	OBC SENTENCE	FIXTURES REQUIRED	FIXTURES PROVIDED			
	First Floor Male	9	3.7.4.7	1	1			
	First Floor Female	9	3.7.4.7	1	1			
3.29 ENERGY EFFICIENCY	COMPLIANCE PATH:	ASHRAE 90.1-2013 +SB10 Division 3 Chapter 2						
	CLIMATIC ZONE:	ZONE 6						
3.30 BUILDING ENVELOPE REQUIREMENTS	DESCRIPTION	REQUIRED	PROVIDED					SB 10
	ROOF, ENTIRELY ABOVE DECK:	R-40 ci	R-66.9, R-65.3					5.5-7
	WALLS ABOVE GRADE, MASS:	R-20 ci	R-41.8, R-45, R-41.4					5.5-7
	WALLS ABOVE GRADE, STEEL FRAMED:	N/A						5.5-7
	SLAB-ON-GRADE (UNHEATED)	R-15 for 48in	R-15.8, R-16.4					5.5-7
3.31 NOTES								

1 ALL REFERENCES ARE TO DIVISION B OF THE OBC UNLESS PRECEDED BY [A] FOR DIVISION A AND [C] FOR DIVISION C

THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS REMAIN THE COPYRIGHT PROPERTY OF THOMAS BROWN ARCHITECT INC. AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION	2022-08-30
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT:

CLIENT:

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
 197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DRAWING INDEX & OBC MATRIX

ORIENTATION

DATE: 2021-11-24

SCALE: DRAWN BY: VL/BG

DWG STATUS: TENDER

PROJECT NO.: 2104

DRAWING NO.: A0.0 REVISION: 30

2024-09-09 4:03:39 PM

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION	2022-08-30
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
27	ADDENDUM #1	2024-05-09
28	ADDENDUM #3	2024-05-22
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
187 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

EXTERIOR & INTERIOR ASSEMBLIES

ORIENTATION

DATE	2021-11-24
SCALE	1 : 20
DWG. BY	SRL
DWG. NO.	TENDER
PROJECT NO.	2104
DRAWING NO.	A0.2
REVISION	30

2024-09-09 4:03:52 PM

1 GENERAL NOTES - WALL ASSEMBLIES		A700 GENERAL NOTES - WALL ASSEMBLIES	
EXTERIOR WALL ASSEMBLIES.			
1. THE SPECIFICATIONS, INSTALLATION, AND PERFORMANCE OF AIR BARRIER SYSTEMS AND VAPOUR BARRIERS MUST MEET OR EXCEED DIV. B PART 5 OF THE ONTARIO BUILDING CODE. 2. THE REQUIREMENTS FOR AN AIR BARRIER AND A VAPOUR BARRIER ARE INTENDED TO BE PROVIDED AS CONTINUOUS PLANES WITHIN THE BUILDING ENVELOPE. ENSURE CONTINUITY OF AIR AND VAPOUR MEMBRANES BETWEEN COMPONENTS, TO ADJACENT CONSTRUCTION AND AT ALL PENETRATIONS TO PREVENT OR RETARD PASSAGE OF MOISTURE LADEN AIR AND/OR THE DIFFUSION OF WATER VAPOUR. 3. EXTERIOR ASSEMBLIES NOTING STUD FRAMING SHALL BE CONSTRUCTED USING WIND-LOAD BEARING FRAMING DESIGNED TO CARRY REQUIRED LATERAL LOADS. PROVIDE ENGINEERED SHOP DRAWING PRIOR TO COMMENCEMENT OF WORK.			
INTERIOR WALL ASSEMBLIES.			
LOAD BEARING PARTITIONS (INTERIOR) WHERE A PARTITION IS A LOAD BEARING WALL, REFER TO THE STRUCTURAL DRAWINGS FOR DESIGN REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO THE COMMENCEMENT OF WORK.			
STEEL STUD FRAMED PARTITIONS (INTERIOR)			
1. ALL PARTITIONS ARE TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED. 2. PROVIDE DEFLECTION DETAIL AT TOP OF ALL WALLS THAT ABUT UNDERSIDE OF DECK OR STRUCTURE. SEE ALSO TOP OF WALL DETAILS AS INDICATED. 3. WHERE SOUND ATTENUATION BATTS ARE CALLED FOR ON THE WALL TYPE, SEAL PERIMETER OF WALLS AND AROUND PENETRATIONS THROUGH WALLS WITH ACOUSTIC SEALANT. APPLY CONTINUOUS ACOUSTIC SEALANT TO BOTH SIDES OF TRACK AT THE JUNCTIONS WITH FLOORS AND ROOF DECKS, AND AROUND PENETRATIONS TO PARTITIONS. RECESSED OUTLETS ARE TO BE STAGGERED SO THAT ONLY ONE OUTLET IS INSTALLED BETWEEN TWO STUDS. 4. DO NOT FASTEN METAL STUDS TO CURTAIN WALL MULLIONS OR TEE BAR GRIDS. 5. WHERE INTERIOR DOORS ARE CLOSE TO AN INSIDE CORNER, PROVIDE MIN. CLEARANCE FROM DOOR JAMB TO ADJACENT WALL AS INDICATED ON DETAIL TITLED 'FRAME TYPES'			
MASONRY PARTITIONS (INTERIOR)			
1. HEIGHT OF CONCRETE MASONRY UNIT WALLS TO BE UNDERSIDE OF FLOOR/ROOF DECK ABOVE UNLESS OTHERWISE NOTED. 2. WHERE CONCRETE UNIT MASONRY WALLS ABUT REINFORCED CONCRETE WALLS AND PIERS, RAKE BACK MORTAR JOINT WHERE THE TWO MATERIALS MEET AND PROVIDE CONTINUOUS SEALANT			
FIRE RATED PARTITIONS (INTERIOR)			
1. FOR WALL ASSEMBLIES THAT BEAR THE NOTE "CONSTRUCT AS FIRE SEPARATION WHERE NOTED", THE ASSEMBLY SHALL BE CONSTRUCTED AS A FIRE SEPARATION AT THE LOCATIONS INDICATED IN THE CONTRACT DRAWINGS. 2. AT RECESSED PANEL INSTALLATIONS (E.G. ELECTRICAL PANELS) WITHIN RATED WALLS PROVIDE FOR CONTINUITY OF THE REQUIRED RATING BEHIND THE PANEL. REFER TO THE ONTARIO BUILDING CODE DIVISION B, SECTION 3.1.9.2 FOR REQUIREMENTS FOR COMBUSTIBILITY OF SERVICE PENETRATIONS AND SECTION 3.1.10.2 FOR RATING OF FIREWALLS. 3. WHERE FIRE RATED PARTITIONS ABUT NON-RATED PARTITIONS THE FIRE RATED ASSEMBLY SHALL BE CONTINUOUS AND UNINTERRUPTED BY THE ABUTTING WALLS TO MAINTAIN A CONTINUOUS FIRE SEPARATION. 4. SEAL PERIMETER OF FIRE RATED WALLS AND AROUND PENETRATIONS THROUGH FIRE RATED WALLS WITH APPROVED FIRESTOP MATERIALS. DO NOT SEAL CLEARANCE SPACES WITHIN FIRE DAMPERS. SEAL ONLY IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.			
BLOCKING FOR MILLWORK & SPECIALTIES			
1. PROVIDE BLOCKING IN PARTITIONS AND WALLS (INTERIOR AND EXTERIOR) FOR THE FOLLOWING: a. WINDOW FRAMES, MILLWORK, FIXTURES AND FITTINGS, HANDRAILS, GRAB BARS, TACKBOARDS, WHITEBOARDS, MIRRORS, WASHROOM ACCESSORIES AND OTHER ITEMS AS REQUIRED.			
2 WALL ASSEMBLIES - FOUNDATION			
W F71	INSULATION (WHERE SHOWN) CONTINUOUS TO TOP OF FOOTING	R-33.5	BLDG
W F41	INSULATION (WHERE SHOWN) CONTINUOUS TO TOP OF FOOTING	R-33.8	BLDG
W F21	INSULATION (WHERE SHOWN) CONTINUOUS TO TOP OF FOOTING	R-34.5	BLDG
W F61	INSULATION (WHERE SHOWN) CONTINUOUS TO TOP OF FOOTING	R-34.9	BLDG
W F81	INSULATION (WHERE SHOWN) CONTINUOUS TO TOP OF FOOTING	R-35.2	BLDG
W F31	INSULATION (WHERE SHOWN) CONTINUOUS TO TOP OF FOOTING	R-34.1	BLDG
W F4	INSULATION (WHERE SHOWN) CONTINUOUS TO TOP OF FOOTING	R-1.4	BLDG
W F7	INSULATION (WHERE SHOWN) CONTINUOUS TO TOP OF FOOTING	R-1.1	BLDG

3 WALL ASSEMBLIES - EXTERIOR	
X1 530MM	R-41.8 CI - R20
X2 530MM	R-45.1 CI - R20
X3 530MM	R-35.7 CI - R20
X4 530MM	R-44.7 CI - R20
X1A 530MM	
X05 530MM	
CW1	
AC1 385MM	
LACB0 160MM	

5 WALL ASSEMBLIES - INTERIOR	
P1 117MM	
P1a 117MM	
P2 163MM	
P3 143MM	
P5 123MM	
P5c 123MM	
P5d 123MM	
P6 77MM	
P8 129MM	
IS3 145MM	
CLT1	
CLT2	
CC1 290MM	

7 ROOF ASSEMBLIES	
ROOF TYPE: VRA	FLAT
ROOF TYPE: RT-7	FLAT
ROOF TYPE: RT-20	SLOPED
ROOF TYPE: RT-8	SLOPED
FL-1	
FL-10	
CLT1	
CLT2	
CLT3	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

8 FLOOR ASSEMBLIES - EXTERIOR	
HDA	
GEN	
PAV	
MST	
TA-1	
SW-1	
SOD	
LSS	

4 WALL ASSEMBLIES - PARAPET	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

6 FLOOR ASSEMBLIES - INTERIOR	
FL-1	
FL-10	
CLT1	
CLT2	
CLT3	

2 WALL ASSEMBLIES - FOUNDATION	
W F71	
W F41	
W F21	
W F61	
W F81	
W F31	
W F4	
W F7	

5 WALL ASSEMBLIES - INTERIOR	
P1 117MM	
P1a 117MM	
P2 163MM	
P3 143MM	
P5 123MM	
P5c 123MM	
P5d 123MM	
P6 77MM	
P8 129MM	
IS3 145MM	
CLT1	
CLT2	
CC1 290MM	

7 ROOF ASSEMBLIES	
ROOF TYPE: VRA	FLAT
ROOF TYPE: RT-7	FLAT
ROOF TYPE: RT-20	SLOPED
ROOF TYPE: RT-8	SLOPED
FL-1	
FL-10	
CLT1	
CLT2	
CLT3	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

8 FLOOR ASSEMBLIES - EXTERIOR	
HDA	
GEN	
PAV	
MST	
TA-1	
SW-1	
SOD	
LSS	

4 WALL ASSEMBLIES - PARAPET	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

6 FLOOR ASSEMBLIES - INTERIOR	
FL-1	
FL-10	
CLT1	
CLT2	
CLT3	

2 WALL ASSEMBLIES - FOUNDATION	
W F71	
W F41	
W F21	
W F61	
W F81	
W F31	
W F4	
W F7	

5 WALL ASSEMBLIES - INTERIOR	
P1 117MM	
P1a 117MM	
P2 163MM	
P3 143MM	
P5 123MM	
P5c 123MM	
P5d 123MM	
P6 77MM	
P8 129MM	
IS3 145MM	
CLT1	
CLT2	
CC1 290MM	

7 ROOF ASSEMBLIES	
ROOF TYPE: VRA	FLAT
ROOF TYPE: RT-7	FLAT
ROOF TYPE: RT-20	SLOPED
ROOF TYPE: RT-8	SLOPED
FL-1	
FL-10	
CLT1	
CLT2	
CLT3	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

8 FLOOR ASSEMBLIES - EXTERIOR	
HDA	
GEN	
PAV	
MST	
TA-1	
SW-1	
SOD	
LSS	

4 WALL ASSEMBLIES - PARAPET	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

6 FLOOR ASSEMBLIES - INTERIOR	
FL-1	
FL-10	
CLT1	
CLT2	
CLT3	

2 WALL ASSEMBLIES - FOUNDATION	
W F71	
W F41	
W F21	
W F61	
W F81	
W F31	
W F4	
W F7	

5 WALL ASSEMBLIES - INTERIOR	
P1 117MM	
P1a 117MM	
P2 163MM	
P3 143MM	
P5 123MM	
P5c 123MM	
P5d 123MM	
P6 77MM	
P8 129MM	
IS3 145MM	
CLT1	
CLT2	
CC1 290MM	

7 ROOF ASSEMBLIES	
ROOF TYPE: VRA	FLAT
ROOF TYPE: RT-7	FLAT
ROOF TYPE: RT-20	SLOPED
ROOF TYPE: RT-8	SLOPED
FL-1	
FL-10	
CLT1	
CLT2	
CLT3	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

8 FLOOR ASSEMBLIES - EXTERIOR	
HDA	
GEN	
PAV	
MST	
TA-1	
SW-1	
SOD	
LSS	

4 WALL ASSEMBLIES - PARAPET	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

6 FLOOR ASSEMBLIES - INTERIOR	
FL-1	
FL-10	
CLT1	
CLT2	
CLT3	

2 WALL ASSEMBLIES - FOUNDATION	
W F71	
W F41	
W F21	
W F61	
W F81	
W F31	
W F4	
W F7	

5 WALL ASSEMBLIES - INTERIOR	
P1 117MM	
P1a 117MM	
P2 163MM	
P3 143MM	
P5 123MM	
P5c 123MM	
P5d 123MM	
P6 77MM	
P8 129MM	
IS3 145MM	
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CLT2	
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FL-10	
CLT1	
CLT2	
CLT3	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

8 FLOOR ASSEMBLIES - EXTERIOR	
HDA	
GEN	
PAV	
MST	
TA-1	
SW-1	
SOD	
LSS	

4 WALL ASSEMBLIES - PARAPET	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

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FL-10	
CLT1	
CLT2	
CLT3	

2 WALL ASSEMBLIES - FOUNDATION	
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W F41	
W F21	
W F61	
W F81	
W F31	
W F4	
W F7	

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P3 143MM	
P5 123MM	
P5c 123MM	
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P8 129MM	
IS3 145MM	
CLT1	
CLT2	
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7 ROOF ASSEMBLIES	
ROOF TYPE: VRA	FLAT
ROOF TYPE: RT-7	FLAT
ROOF TYPE: RT-20	SLOPED
ROOF TYPE: RT-8	SLOPED
FL-1	
FL-10	
CLT1	
CLT2	
CLT3	
X20-P1 484MM	
X20-P2 450MM	
X20-P3 460MM	

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION	2022-08-30
14	GEOTHERMAL ROUTE TO MEZZ	2023-03-22
17	SPA - REVISION	2023-08-30
18	SPA - FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
21	BUILDING PERMIT REVISION	2023-11-14
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - F1T	2024-04-15
28	ADDENDUM #3	2024-05-22
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT:
CLIENT:

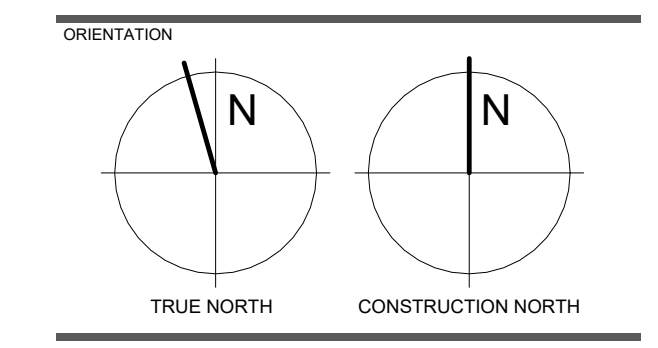


THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE FIRE, LIFE SAFETY, & AODA REQUIREMENTS



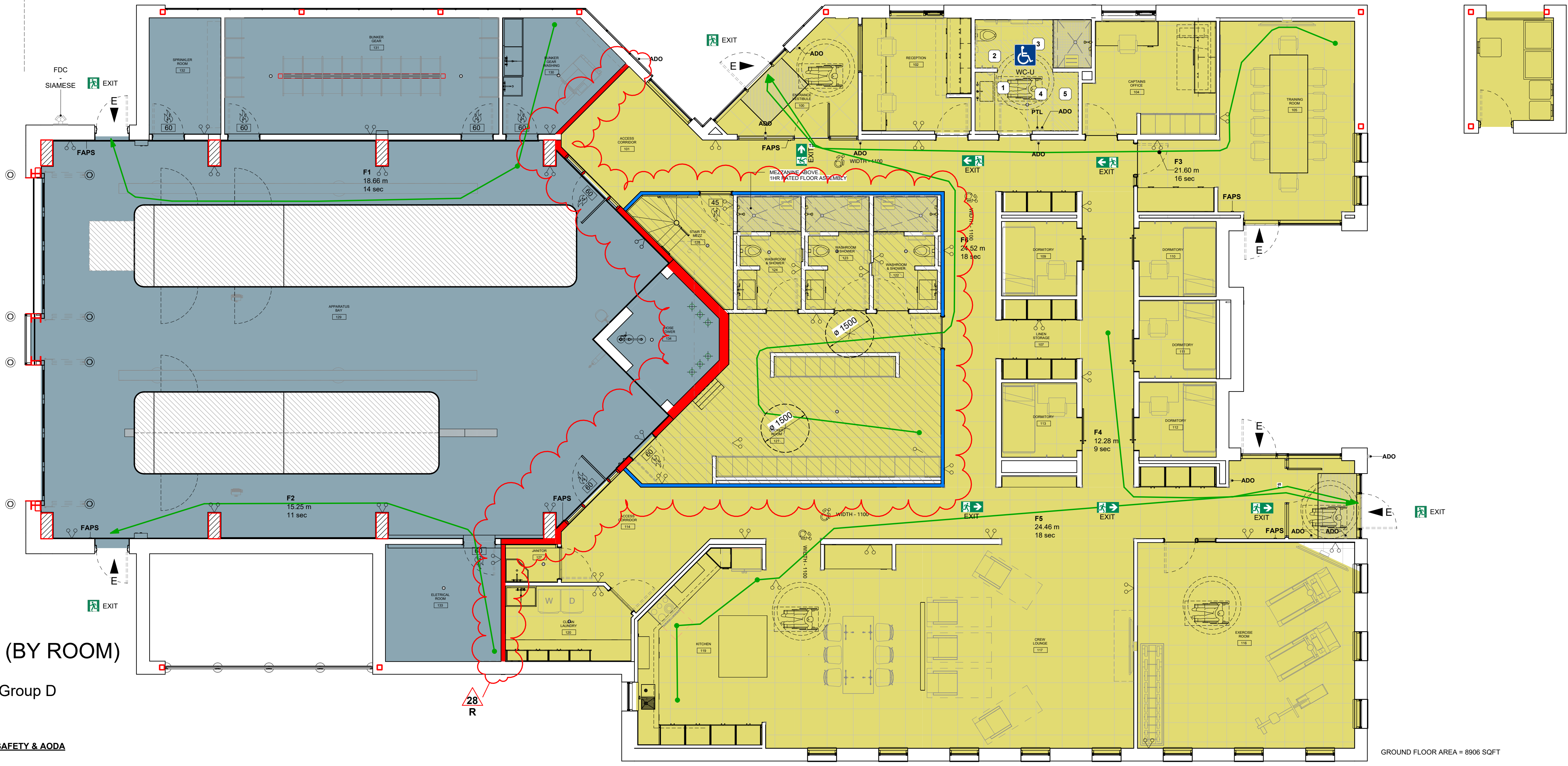
DATE: 2021-11-24

SCALE: As indicated DRAWN BY: SRL

DWG STATUS: TENDER

PROJECT No: 2104

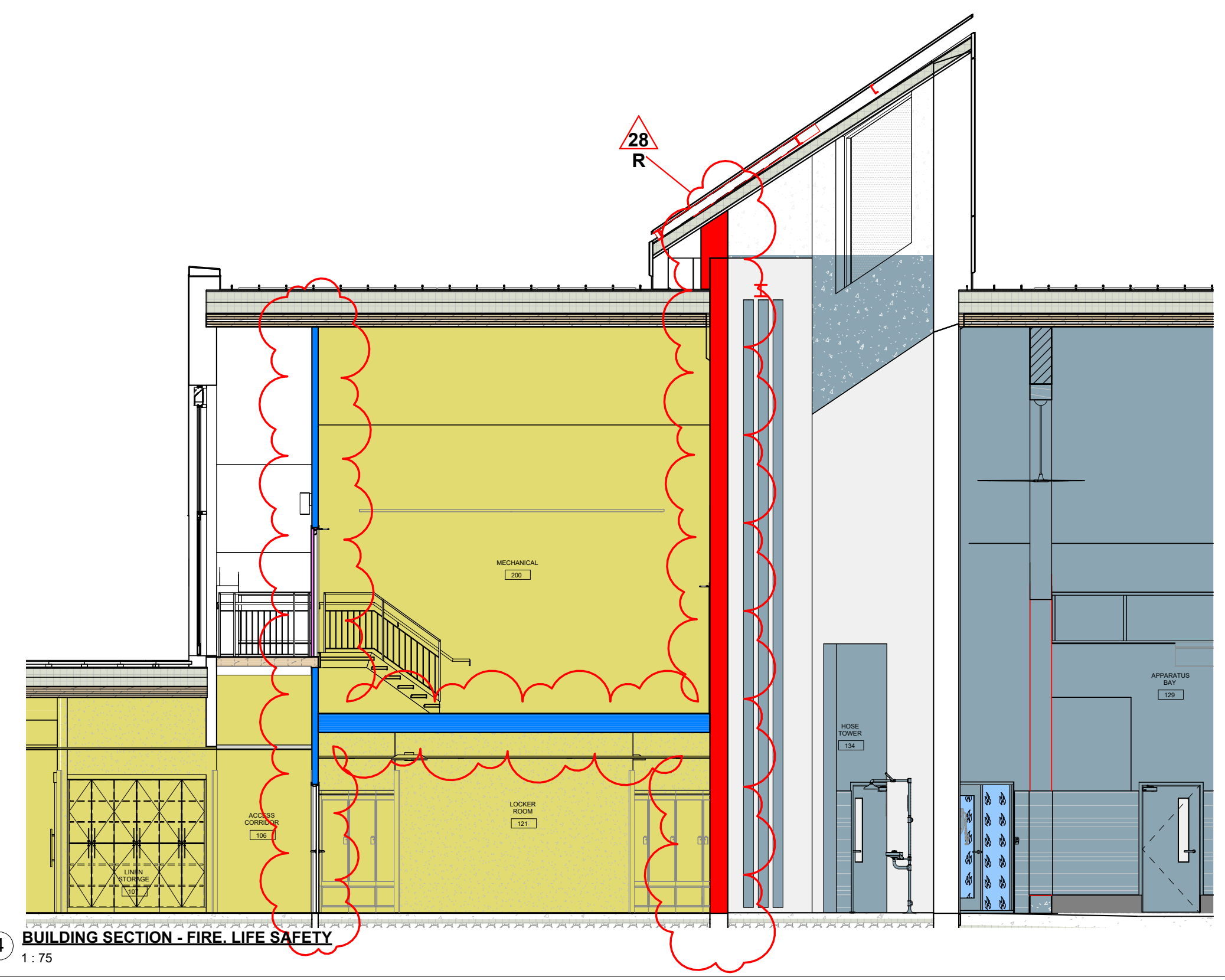
DRAWING No: A1.1 REVISION: 30



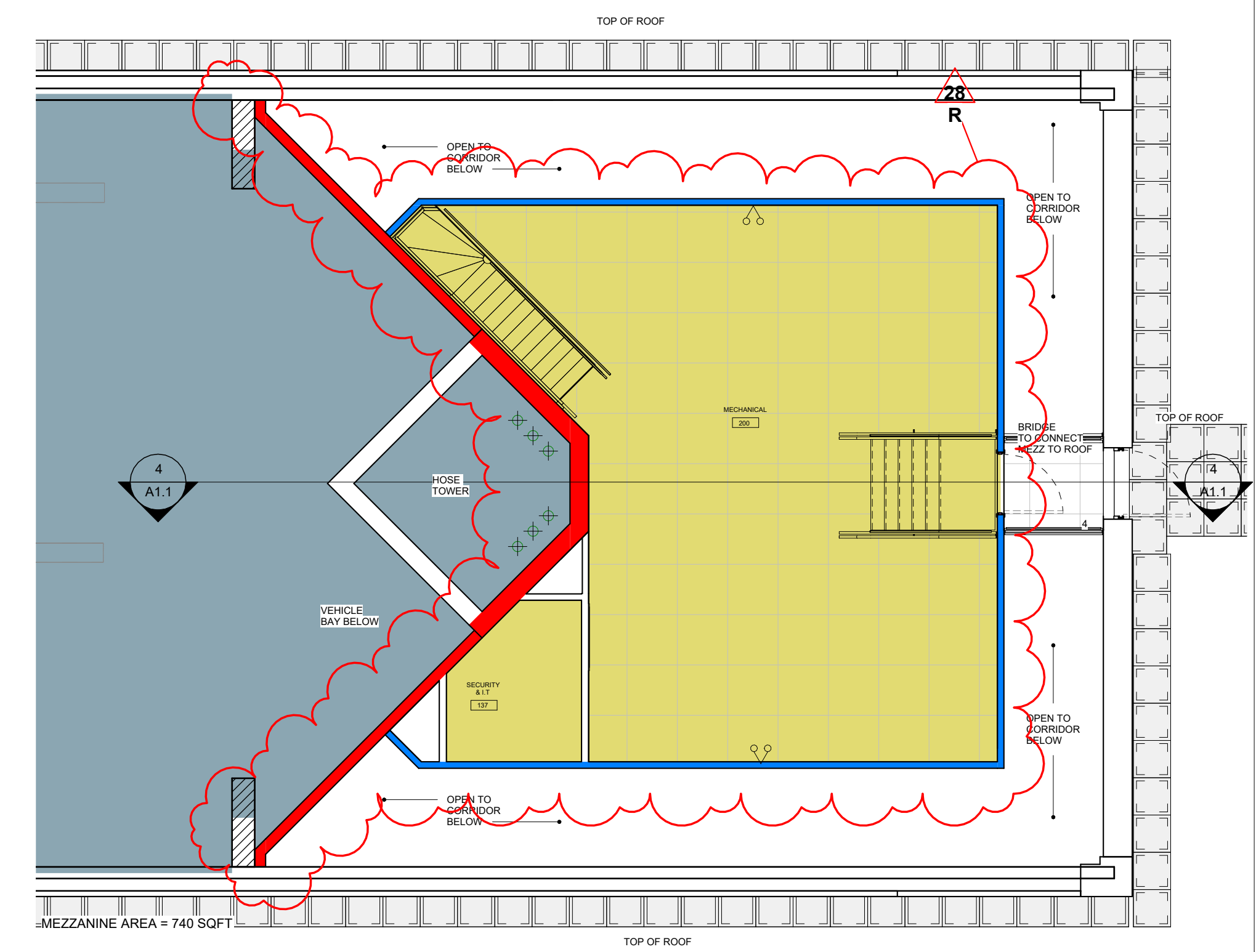
OCCUPANCY (BY ROOM)

Group F3 (Blue) Group D (Yellow)

1 GROUND FLOOR - FIRE, LIFE SAFETY & AODA
1:75



4 BUILDING SECTION - FIRE, LIFE SAFETY
1:75



3 MEZZANINE - FIRE, LIFE SAFETY
1:75

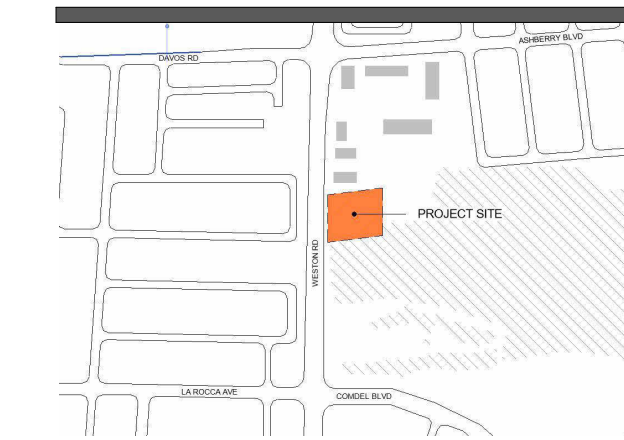
2 FIRE PLAN LEGEND		LEGEND - FIRE PLAN	
E	ENTRANCE/EXIT		
⊕	SIAMESE FIRE DEPARTMENT CONNECTION		
AS	AUTOMATIC SPRINKLER - ENTIRE BUILDING		
FCP	FIRE ALARM CONTROL PANEL		
GAP	GENERATOR ANNUNCIATOR PANEL		
FAPS	FIRE ALARM PULL STATION		
⊕	SINGLE / DOUBLE EMERGENCY LIGHT, BATTERY-POWERED		
⊕	ILLUMINATED EXIT SIGN, SINGLE FACE		
⊕	STROBE		
SDCO	COMBINED SMOKE/CO DETECTOR		
FEC	FIRE EXTINGUISHER CABINET c/w FIRE EXTINGUISHER		
Red	1.5hr FIRE SEPARATION		
Blue	1hr FIRE SEPARATION		
Pink	45min FIRE SEPARATION		

FIRE EXIT TRAVEL DISTANCE					
FROM ROOM	TO ROOM	LEVEL	TAG	TRAVEL SPEED	TIME
GROUND FLOOR					
BUNKER GEAR WASHING 130		GROUND FLOOR	F1	18.66 m 4.8 km/h	13.9 s
ELECTRICAL ROOM 133	APPARATUS BAY 129	GROUND FLOOR	F2	15.25 m 4.8 km/h	11.4 s
TRAINING ROOM 105	ENTRANCE VESTIBULE 100	GROUND FLOOR	F3	21.6 m 4.8 km/h	16.1 s
DORMITORY 109		GROUND FLOOR	F4	12.28 m 4.8 km/h	9.2 s
KITCHEN 119	VESTIBULE 115	GROUND FLOOR	F5	24.46 m 4.8 km/h	18.2 s
LOCKER ROOM 121	ENTRANCE VESTIBULE 100	GROUND FLOOR	F6	24.52 m 4.8 km/h	18.3 s

FIRE & AODA KEY NOTES	
1	920mm x 1370 BARRIER FREE CLEARANCE AT SINK
2	900mm x 1500mm BARRIER FREE TRANSFER CLEARANCE
3	900mm x 1500mm BARRIER FREE CLEAR SPACE AT FRONT OF SHOWER
4	1800mm TURNING RADIUS
5	810mm x 1830mm ALLOCATED SPACE FOR BF ADULT CHANGE TABLE (NIC)

2024-09-09 4:04:11 PM

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION	2022-08-30
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFP/Q	2023-10-19
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

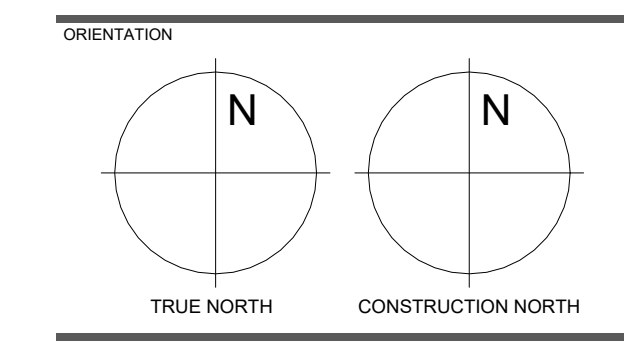
CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

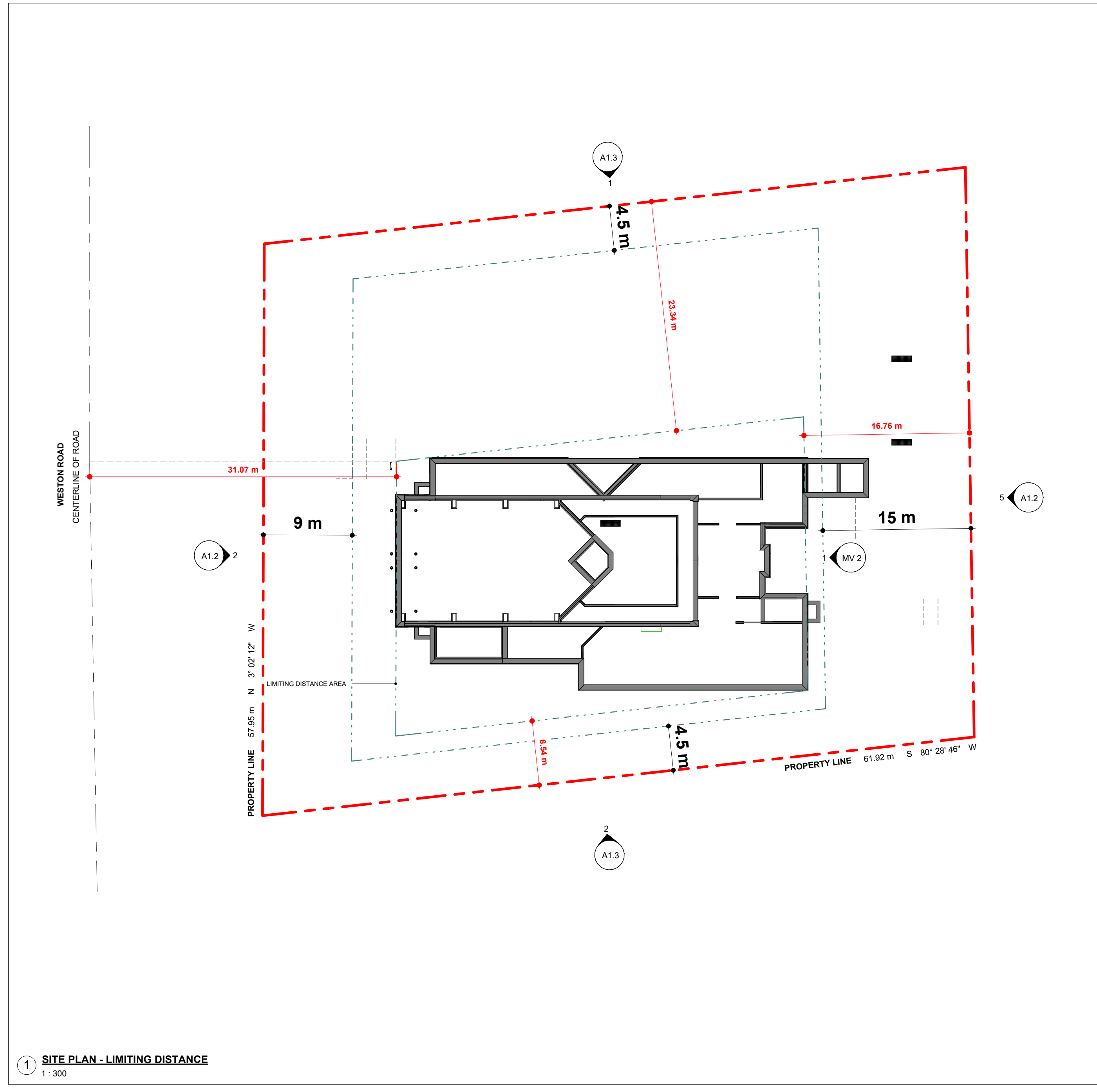
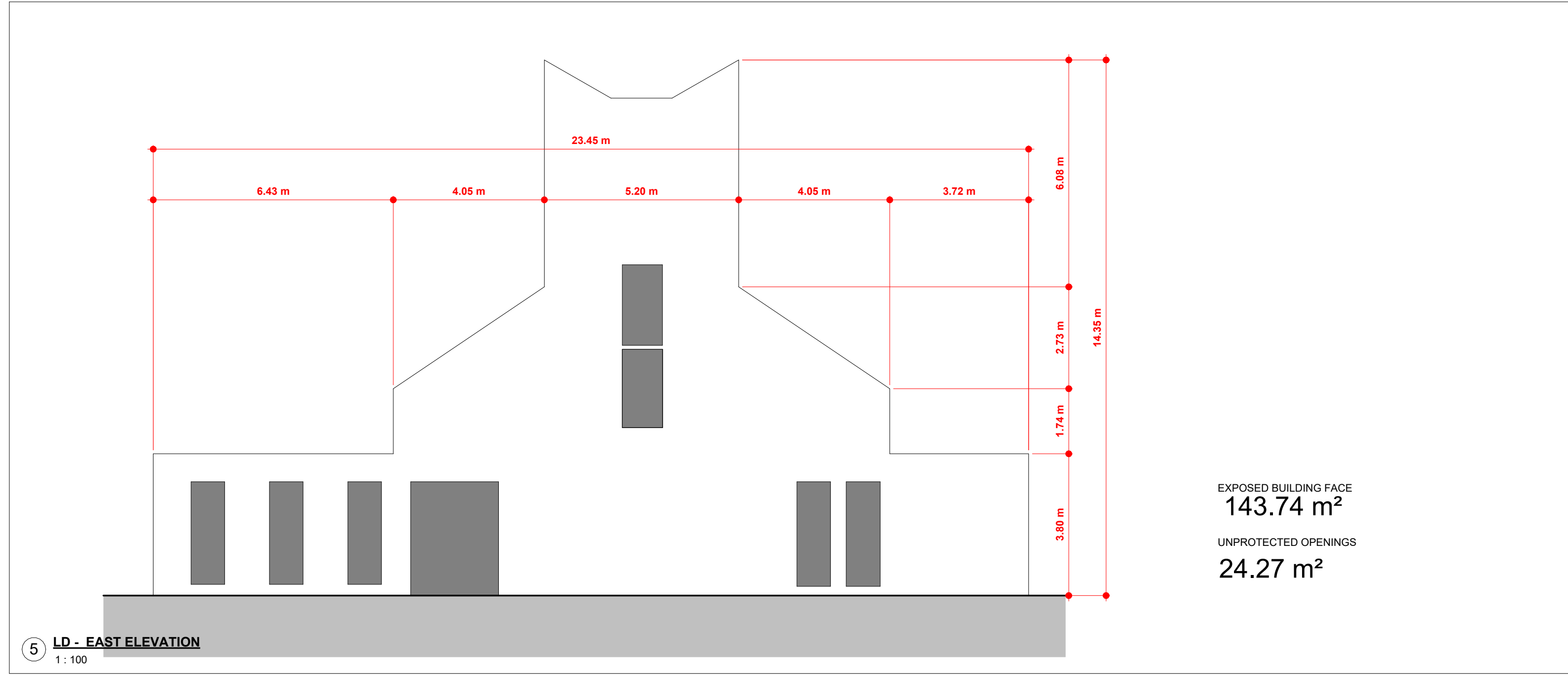
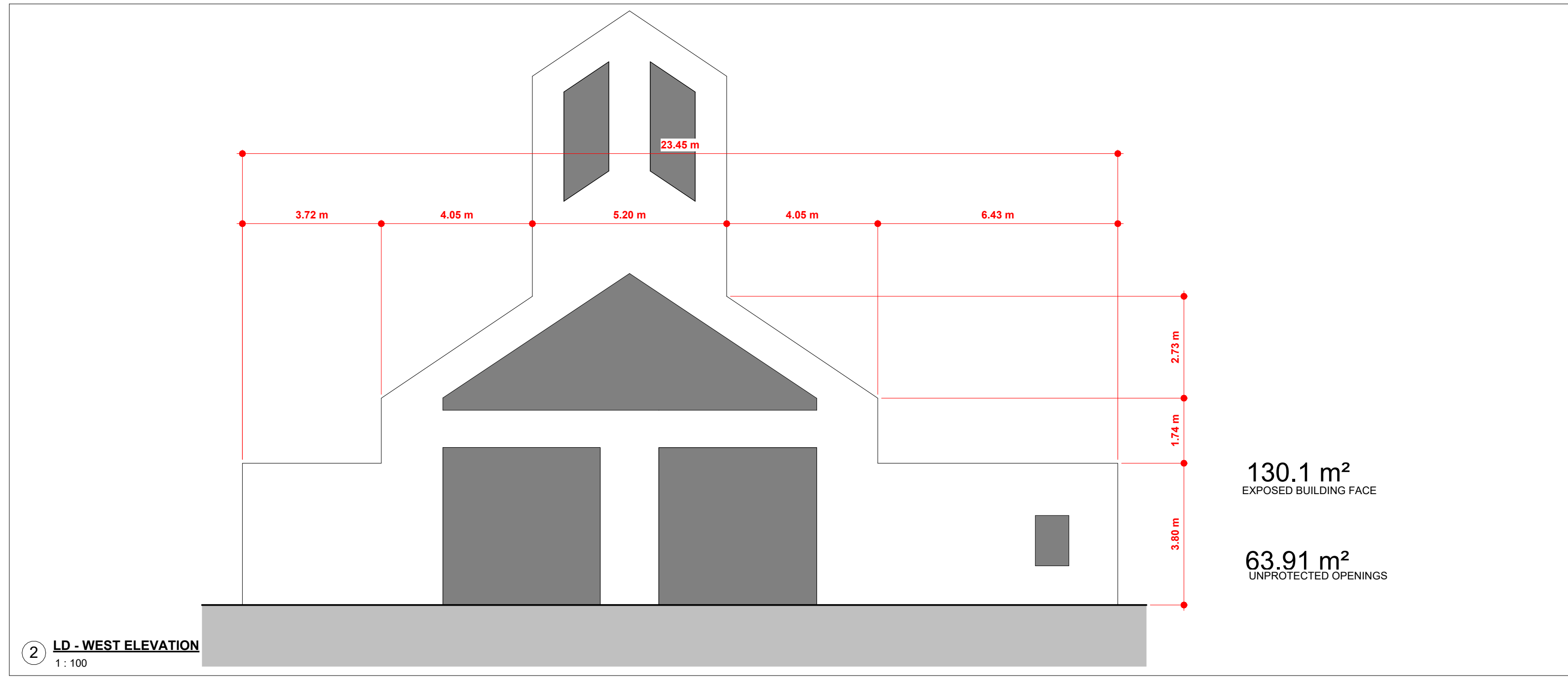


PROFESSIONAL SEAL

OBC LIMITING DISTANCE REVIEW



DATE	2021-11-24
SCALE	As indicated
DRAWN BY	SRL
PROJECT No.	TENDER
	2104
DRAWING No.	REVISION
A1.2	30



ONTARIO BUILDING CODE DATA MATRIX
SPATIAL SEPARATION INTERPOLATION SUPPLEMENT
EAST BUILDING ELEVATION
OBC 3.2.3.1.

Actual Exposing Building Face (m ²):	143.8	(1)	EBF: Exposing building face
Actual Limiting Distance (m):	16.8	(2)	LD: Limiting distance
Unprotected Wall Opening Area (m):	24.3	(3)	UPO: Unprotected opening percentage (max.)
Exposing Building Face Length	23.5	(4)	
Exposing Building Face Height	14.5	(5)	
Actual Ratio (L/H OR H/L)	23.45:14.5	(6)	
Permitted Ratio (L/H OR H/L)	N/A	(7)	
Fire Resistance Rating	N/R		

Limiting Distances from the Tables		Limiting Distance from OBC Tables	
Less Than and More Than			
the Actual Limiting Distance from the Drawings.			
LD_1 (< 16.76 m actual)	LD_2 (> 16.76 m actual)		
16.0	17.0		

Area of Exposing Building Face...	Max. Area of Unprotected Openings...	
	100.0	100.0
EBF_1 (< 143.75 m2 actual):	100.0	100.0
EBF_2 (> 143.75 m2 actual):	150.0	100.0

Intermediate Interpolated Unprotected Opening % Values:	100.0	100.0
Final Interpolated Unprotected Opening % Value:	100.0%	
Unprotected Opening % Value Proposed:	16.9%	

ONTARIO BUILDING CODE DATA MATRIX
SPATIAL SEPARATION INTERPOLATION SUPPLEMENT
WEST BUILDING ELEVATION
OBC 3.2.3.1.

Actual Exposing Building Face (m ²):	130.1	(1)	EBF: Exposing building face
Actual Limiting Distance (m):	31.1	(2)	LD: Limiting distance
Unprotected Wall Opening Area (m):	63.9	(3)	UPO: Unprotected opening percentage (max.)
Exposing Building Face Length	23.5	(4)	
Exposing Building Face Height	14.5	(5)	
Actual Ratio (L/H OR H/L)	23.45:14.5	(6)	
Permitted Ratio (L/H OR H/L)	N/A	(7)	
Fire Resistance Rating	N/R		

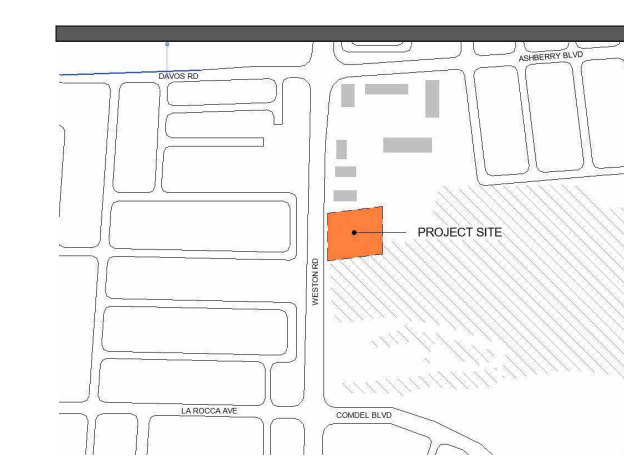
Limiting Distances from the Tables		Limiting Distance from OBC Tables	
Less Than and More Than			
the Actual Limiting Distance from the Drawings.			
LD_1 (< 31.07 m actual)	LD_2 (> 31.07 m actual)		
31.0	32.0		

Area of Exposing Building Face...	Max. Area of Unprotected Openings...	
	100.0	100.0
EBF_1 (< 130.11 m2 actual):	100.0	100.0
EBF_2 (> 130.11 m2 actual):	150.0	100.0

Intermediate Interpolated Unprotected Opening % Values:	100.0	100.0
Final Interpolated Unprotected Opening % Value:	100.0%	
Unprotected Opening % Value Proposed:	49.1%	

2024-09-09 4:04:15 PM

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION	2022-08-30
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPO	2023-10-10
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN
FIRE STATION 7-12
9511 WESTON ROAD, VAUGHAN



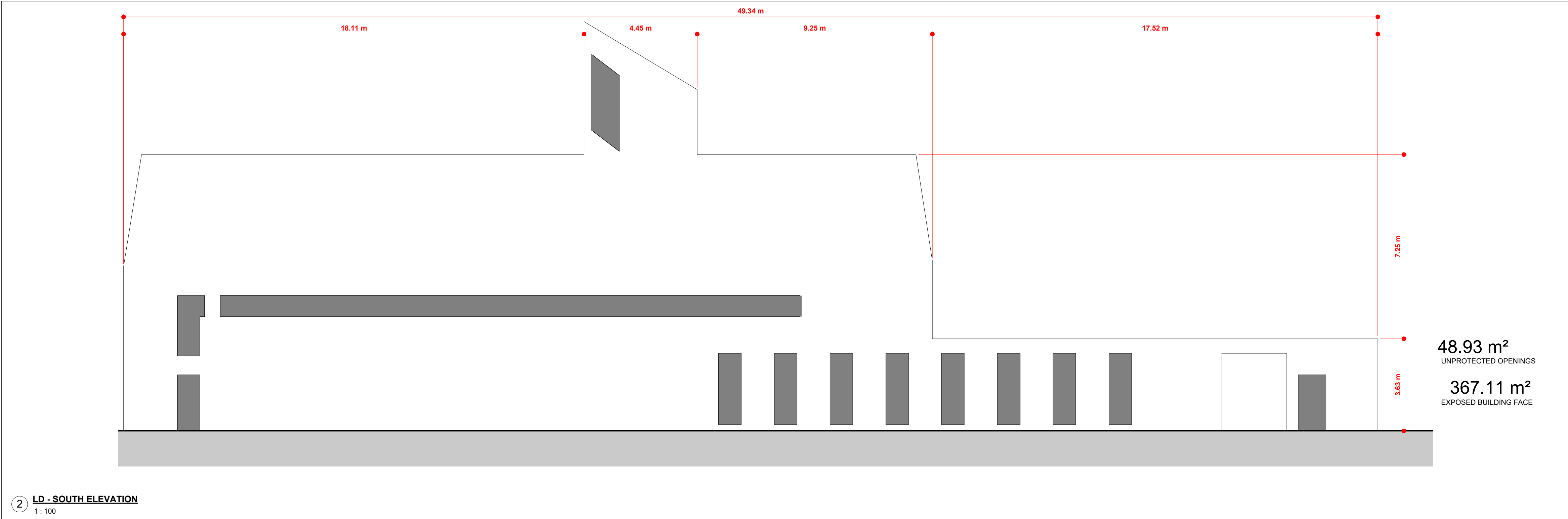
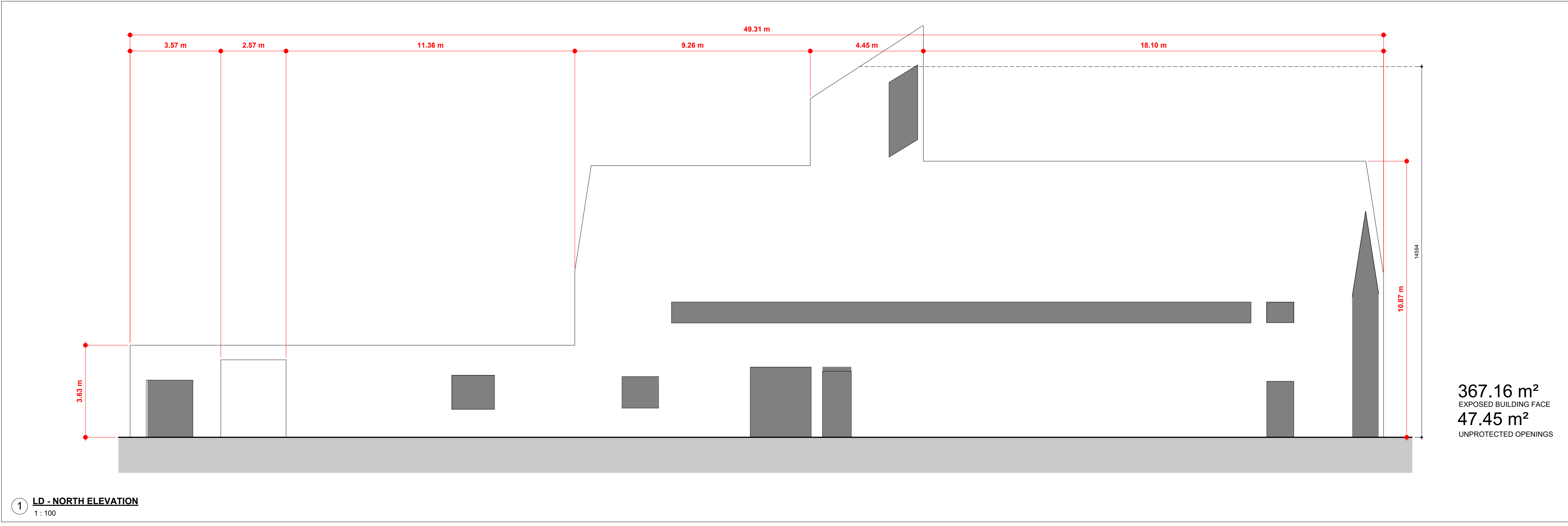
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

OBC LIMITING DISTANCE REVIEW

DATE: 2021-11-24
SCALE: 1:100
DRAWN BY: SRL
PROJECT No.: 2104
DRAWING No.: A1.3
REVISION: 30



ONTARIO BUILDING CODE DATA MATRIX
SPATIAL SEPARATION INTERPOLATION SUPPLEMENT
OBC 3.2.3.1.

NORTH BUILDING ELEVATION

Actual Exposing Building Face (m²):	367.0	(1)	EBF: Exposing building face
Actual Limiting Distance (m):	23.3	(2)	LD: Limiting distance
Unprotected Wall Opening Area (m²):	47.5	(3)	UPO: Unprotected opening percentage (max.)
Exposing Building Face Length (m):	49.3	(4)	
Exposing Building Face Height (m):	14.0	(5)	
Actual Ratio (L/H OR H/L):	7.04428571428571:2	(6)	
Permitted Ratio (L/H OR H/L):	N/A	(7)	
Fire Resistance Rating	N/R		

Limiting Distances from the Tables		Limiting Distance from OBC Tables	
Less Than and More Than the Actual Limiting Distance from the Drawings.			
LD_1 (< 23.3 m actual)	LD_2 (> 23.3 m actual)		
23.0	24.0		

Area of Exposing Building Face...		Max. Area of Unprotected Openings...	Max. Area of Unprotected Openings...
EBF_1 (< 367 m2 actual):	350.0	100.0	100.0
EBF_2 (> 367 m2 actual):	500.0	100.0	100.0
Intermediate Interpolated Unprotected Opening % Values:		100.0	100.0
Final Interpolated Unprotected Opening % Value:		100.0%	
Unprotected Opening % Value Proposed:		12.9%	

ONTARIO BUILDING CODE DATA MATRIX
SPATIAL SEPARATION INTERPOLATION SUPPLEMENT
OBC 3.2.3.1.

SOUTH BUILDING ELEVATION

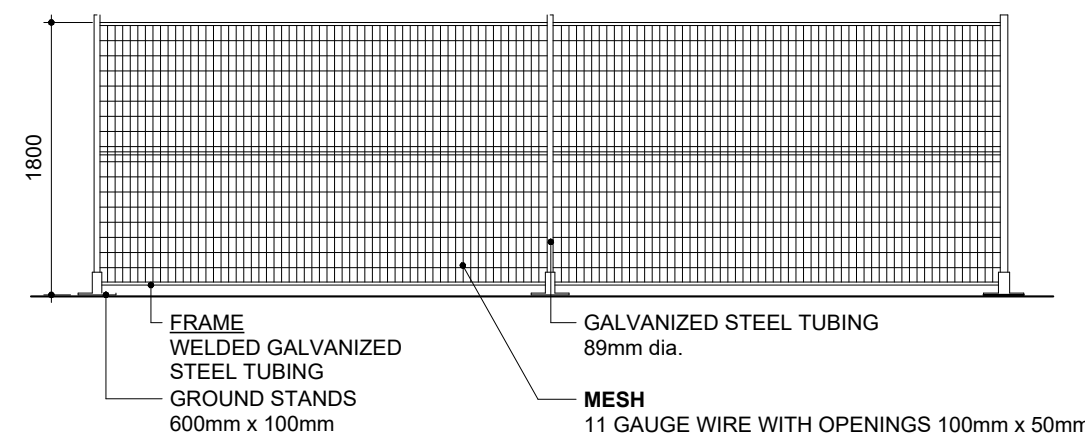
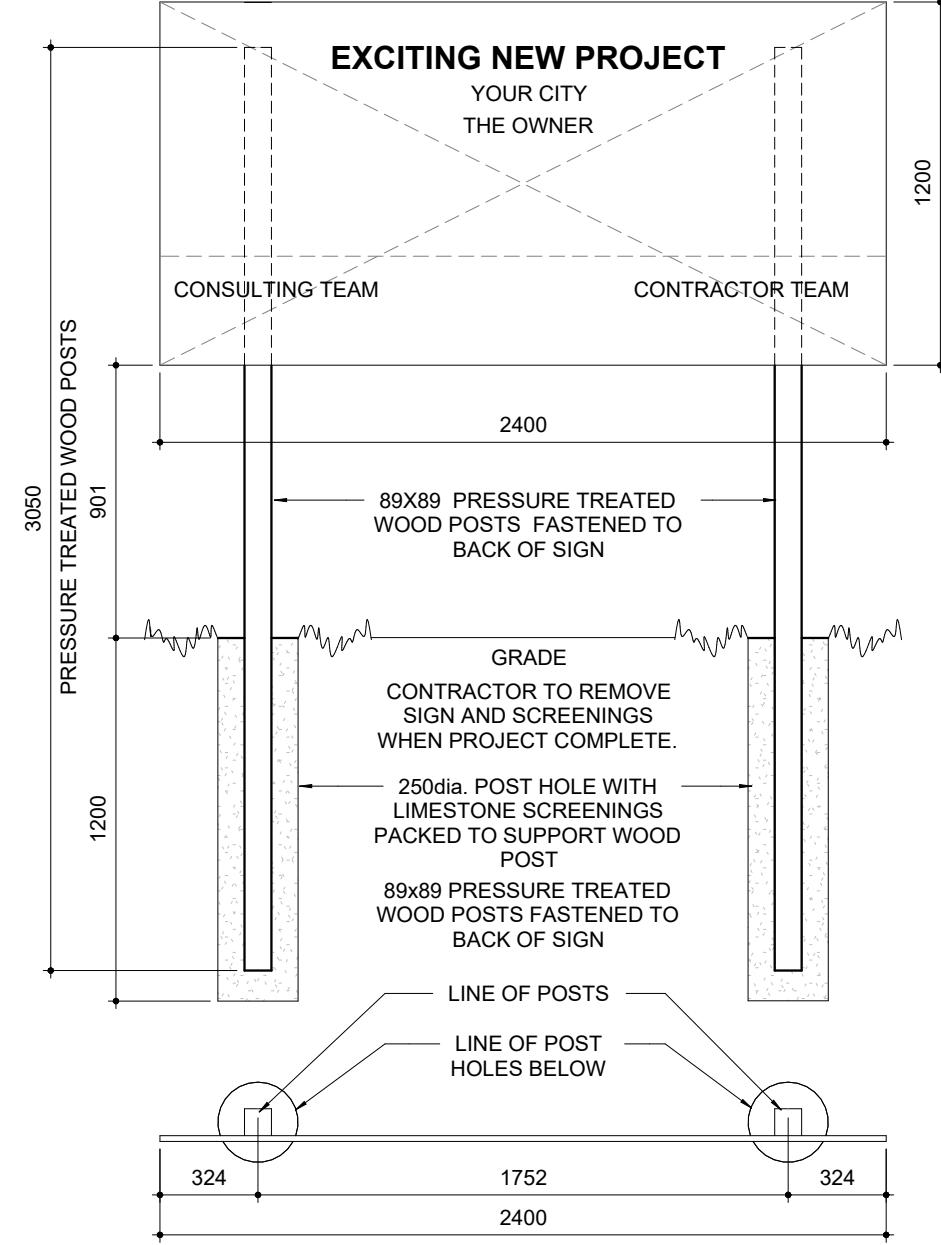
Actual Exposing Building Face (m²):	367.1	(1)	EBF: Exposing building face
Actual Limiting Distance (m):	6.5	(2)	LD: Limiting distance
Unprotected Wall Opening Area (m²):	48.9	(3)	UPO: Unprotected opening percentage (max.)
Exposing Building Face Length (m):	49.0	(4)	
Exposing Building Face Height (m):	14.5	(5)	
Actual Ratio (L/H OR H/L):	7:2.07142857142857	(6)	
Permitted Ratio (L/H OR H/L):	N/A	(7)	
Fire Resistance Rating	45min		

Limiting Distances from the Tables		Limiting Distance from OBC Tables	
Less Than and More Than the Actual Limiting Distance from the Drawings.			
LD_1 (< 6.54 m actual)	LD_2 (> 6.54 m actual)		
6.0	7.0		

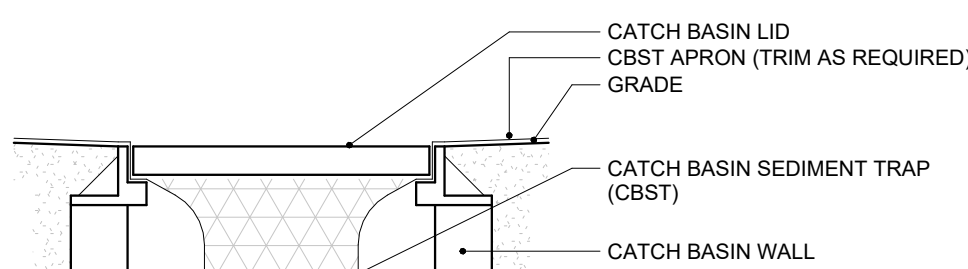
Area of Exposing Building Face...		Max. Area of Unprotected Openings...	Max. Area of Unprotected Openings...
EBF_1 (< 367.11 m2 actual):	350.0	52.0	66.0
EBF_2 (> 367.11 m2 actual):	500.0	52.0	66.0
Intermediate Interpolated Unprotected Opening % Values:		52.0	66.0
Final Interpolated Unprotected Opening % Value:		59.6%	
Unprotected Opening % Value Proposed:		13.3%	

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CONSTRUCTION SIGN TO CONFORM TO MUNICIPAL STANDARD
 SAMPLE MOCK UP WILL BE PROVIDED BY OWNER
 SIGN PURCHASED AND INSTALLED BY CONTRACTOR UNDER THIS CONTRACT

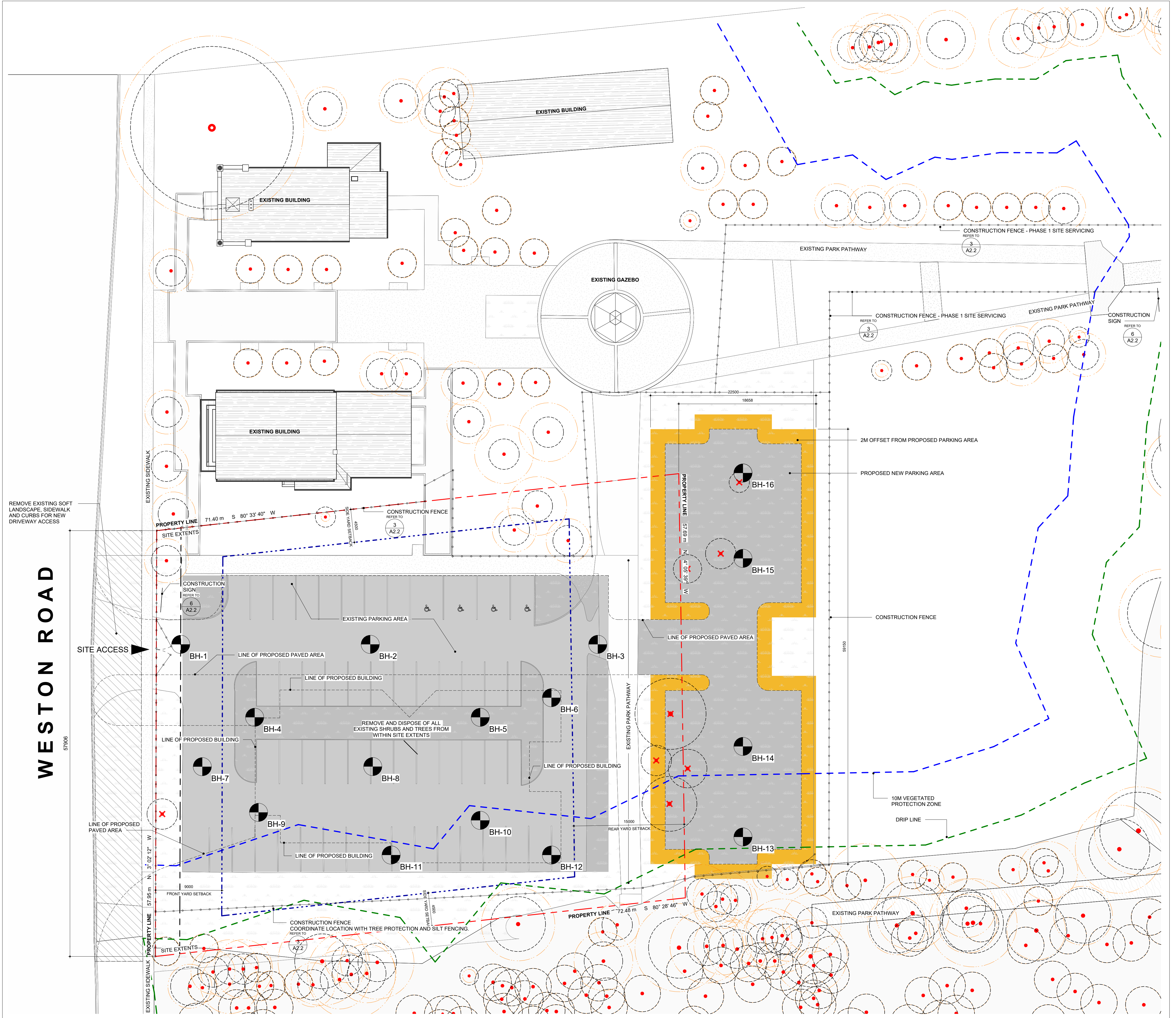


NOTE:
 PROVIDE ACCESS GATES AS INDICATED OR WHERE REQUIRED.



NOTES:
 CBST TO BE INSTALLED IN EXISTING CATCH BASINS THAT MAY BE IMPACTED BY THE WORK.
 CBST TO BE INSTALLED IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION.
 CBST SIZE SELECTION TO BE BASED ON DIMENSIONS OF CATCH BASIN IN WHICH IT IS TO BE INSTALLED.
 INSTALL PER MANUFACTURERS INSTRUCTIONS.
 INSTALL CBST AT START OF WORK AND MAINTAIN THROUGH TO PROJECT COMPLETION. INSPECT REGULARLY AND AFTER EVERY SIGNIFICANT PRECIPITATION EVENT.
 REMOVE ACCUMULATED MATERIAL WHEN CBST IS 1/3 FULL.
 REPLACE DAMAGED CBST WITH NEW AS REQUIRED.

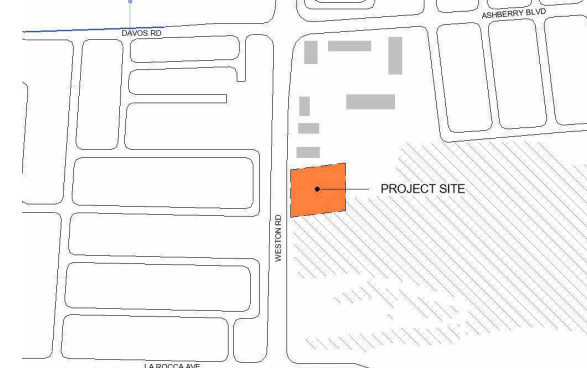
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL EXISTING BY-LAWS, CODES, MUNICIPAL GOVERNMENTS AND AUTHORITIES HAVING JURISDICTION. OBTAIN ALL PERMITS REQUIRED IN ACCORDANCE WITH THE CONTRACT.
- DEMOLITION SCOPE SHOWN IS SCHEMATIC. CAREFUL EXAMINATION OF EXISTING SITE CONDITIONS IS REQUIRED TO DETERMINE FULL SCOPE OF DEMOLITION.
- REFER TO SUPPLEMENTAL REPORTS LISTED UNDER SPECIFICATION SECTION - INFORMATION AVAILABLE FOR REVIEW TO DETERMINE FULL SCOPE OF DEMOLITION.
- WHERE 'COMPLETE' OR 'COMPLETELY' IS ASSOCIATED WITH REMOVALS, THE INTENT IS THAT THE ITEM IS REMOVED IN ITS ENTIRETY INCLUDING ASSOCIATED FITTINGS AND APPURTENANCES.
- WHERE AN ITEM IS NOTED FOR REMOVAL THAT HAS ASSOCIATED MECHANICAL OR ELECTRICAL SERVICES, THESE SERVICES SHALL BE TERMINATED AT AN APPROPRIATE LOCATION AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.



1 SITE PLAN - DEMOLITION
 1 : 250

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 REMAIN THE COPYRIGHT PROPERTY OF
 THOMAS BROWN ARCHITECT INC.
 AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
9	BH-GT TEST HOLE	2022-07-18
10	SPA RE-SUBMISSION	2022-08-30
17	SPA - REVISION	2023-06-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
25	CLIENT REVIEW - 100%	2024-03-12
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

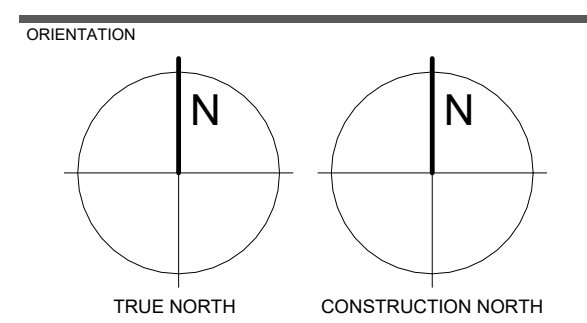


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ARCHITECT
THOMASBROWNARCHITECTS
 197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

SITE DEMOLITION, SITE DETAILS



DATE	2021-11-24
SCALE	As indicated
DRAWN BY	SRL
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A2.2
REVISION	30

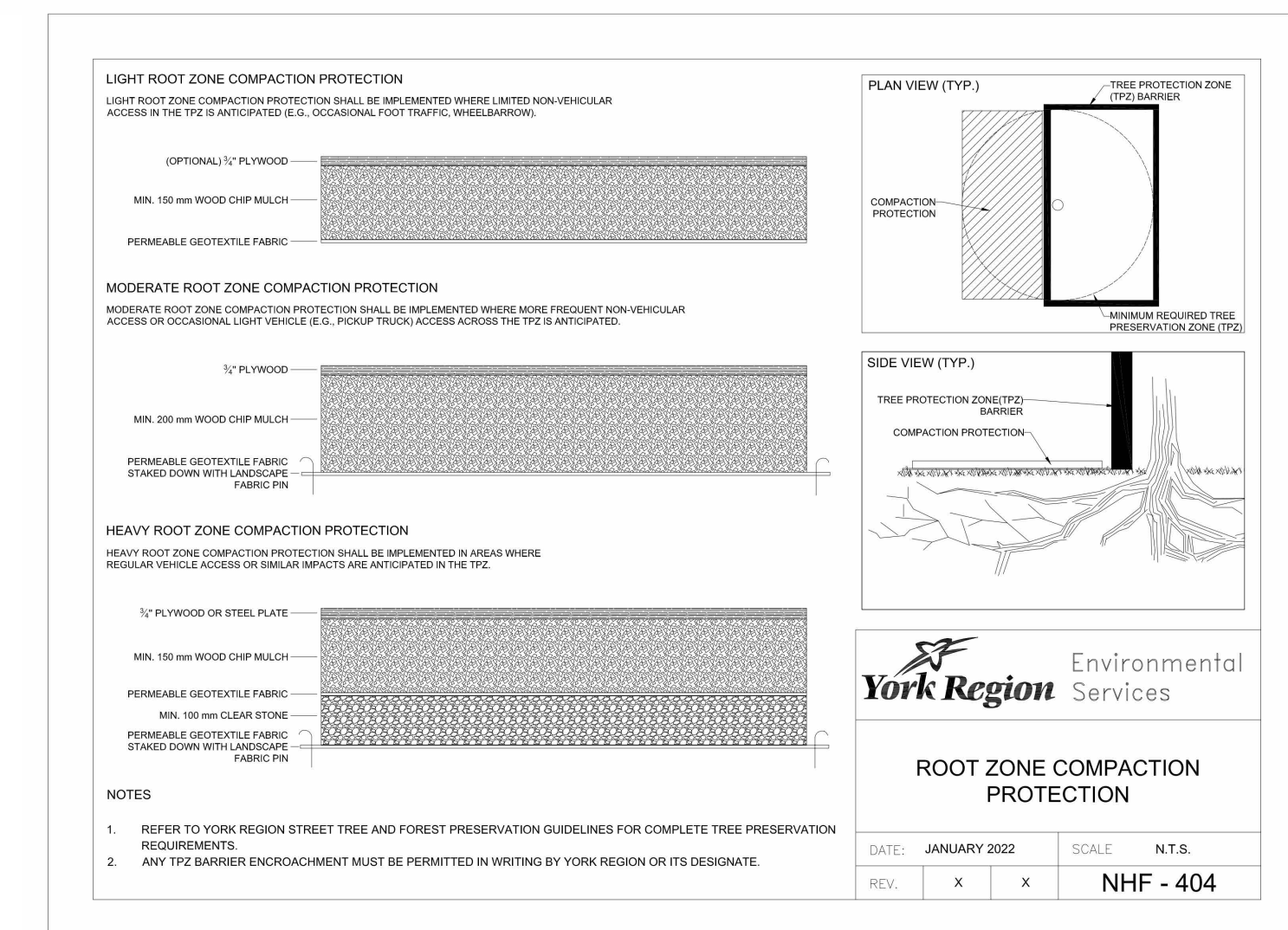
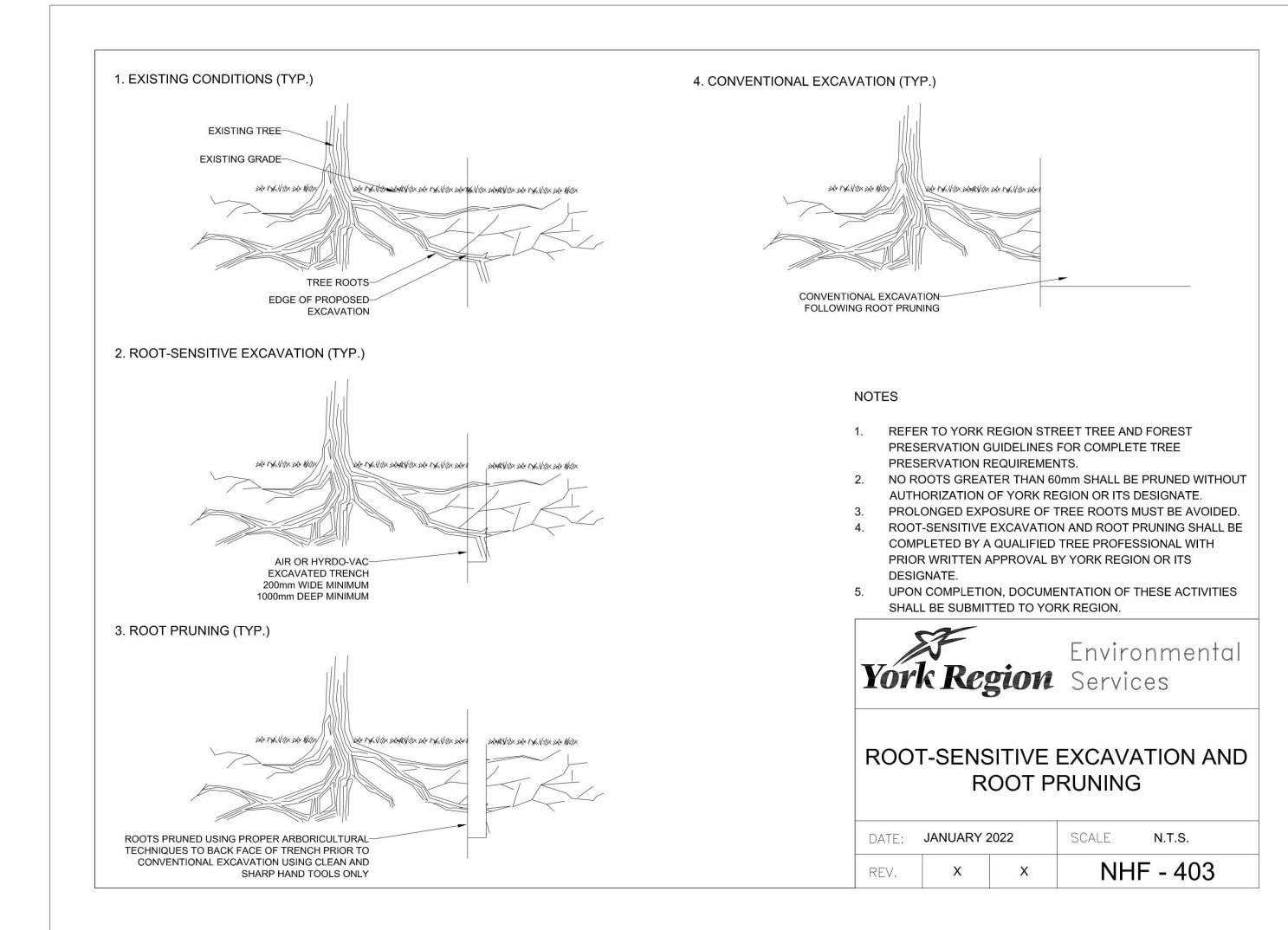
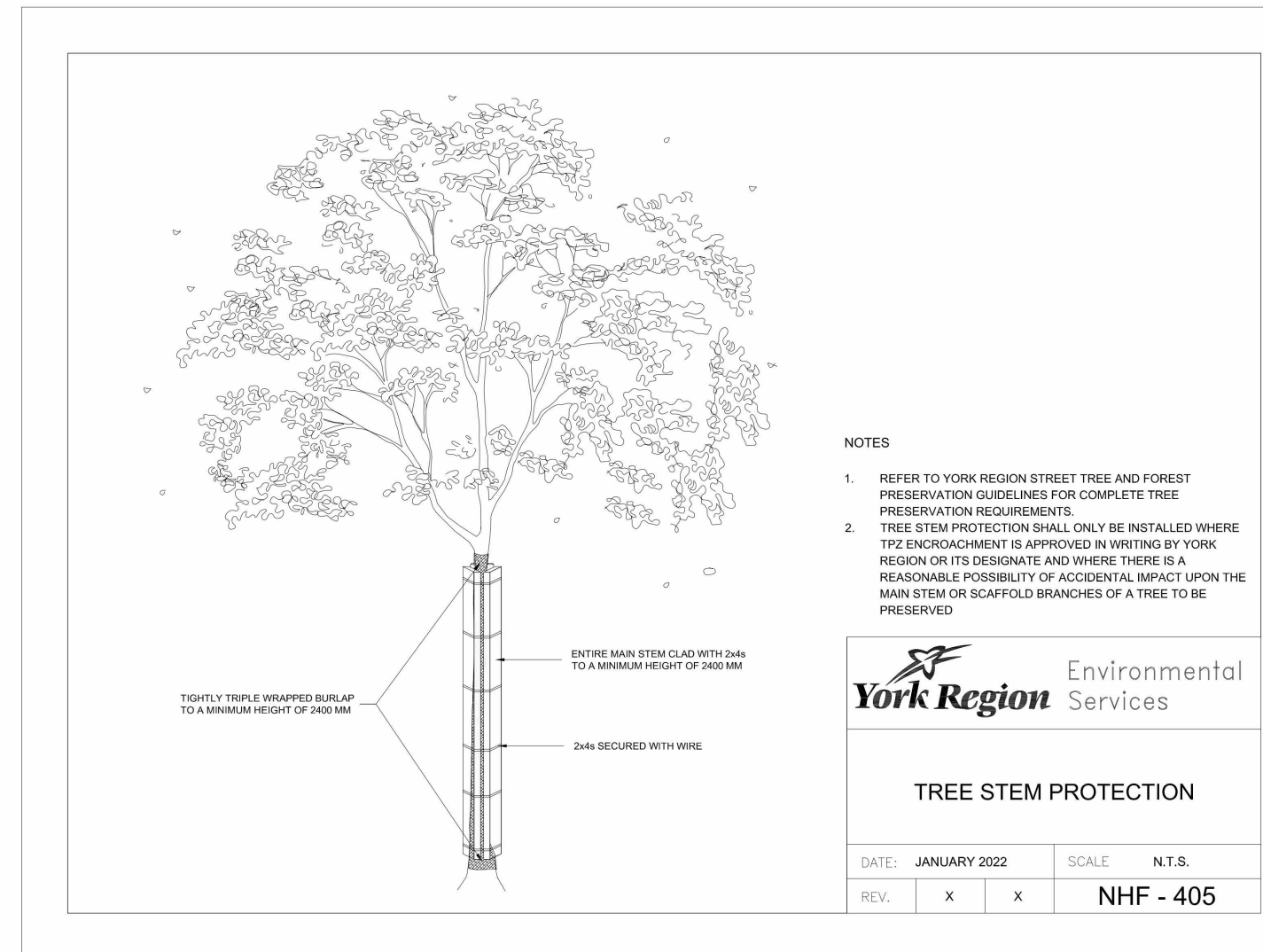
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TREE INVENTORY & ACTION REQUIRED BY CONTRACTOR

TREE #	SPECIES	DBH (cm)	DIAMETER (m)	CONDITION	ACTION REQUIRED BY CONTRACTOR
56	BLUE SPRUCE	7.0	1	GOOD	EXISTING TREE TO REMAIN
57	SILVER MAPLE	180	12	GOOD	EXISTING TREE TO REMAIN
58	LITTLE LEAF LINDEN	23	3	GOOD	EXISTING TREE TO REMAIN
59	LITTLE LEAF LINDEN	26	3	GOOD	EXISTING TREE TO REMAIN
60	MANITOBA MAPLE	20	4	GOOD	EXISTING TREE TO REMAIN
61	MANITOBA MAPLE	11	2	GOOD	EXISTING TREE TO REMAIN
62	WHITE PINE	25	3	GOOD	EXISTING TREE TO REMAIN
63	UNKNOWN	15	2	GOOD	EXISTING TREE TO REMAIN
64	WHITE SPRUCE	22	2	GOOD	EXISTING TREE TO REMAIN
65	WHITE SPRUCE	20	2	GOOD	EXISTING TREE TO REMAIN
66	WHITE SPRUCE	29	3	GOOD	EXISTING TREE TO REMAIN
67	CRABAPPLE	23	3	GOOD	EXISTING TREE TO REMAIN
68	CRABAPPLE	18	3	GOOD	EXISTING TREE TO REMAIN
69	ELM	14	2	GOOD	EXISTING TREE TO REMAIN
70	ELM	13	2	GOOD	EXISTING TREE TO REMAIN
71	ELM	15	2	GOOD	EXISTING TREE TO REMAIN
74	BLUE SPRUCE	13	2	GOOD	EXISTING TREE TO REMAIN
75	BLUE SPRUCE	19	2	GOOD	EXISTING TREE TO REMAIN
76	BLUE SPRUCE	17	2	GOOD	EXISTING TREE TO REMAIN
77	IRONWOOD	15	3	GOOD	EXISTING TREE TO REMAIN
78	SUGAR MAPLE	20	4	GOOD	EXISTING TREE TO REMAIN
79	SUGAR MAPLE	29	4	GOOD	EXISTING TREE TO REMAIN
80	MANITOBA MAPLE	23	5	GOOD	EXISTING TREE TO REMAIN
81	WHITE ELM	25	3	GOOD	EXISTING TREE TO REMAIN
82	MANITOBA MAPLE	35	5	GOOD	EXISTING TREE TO REMAIN
83	SUGAR MAPLE	30	4	GOOD	EXISTING TREE TO REMAIN
84	IRONWOOD	18	0	GOOD	EXISTING TREE TO REMAIN
85	IRONWOOD	33	4	GOOD	EXISTING TREE TO REMAIN
86	SUGAR MAPLE	12	3	GOOD	EXISTING TREE TO REMAIN
87	IRONWOOD	15	3	GOOD	EXISTING TREE TO REMAIN
88	BASSWOOD	30	4	GOOD	EXISTING TREE TO REMAIN
89	BASSWOOD	21	3	GOOD	EXISTING TREE TO REMAIN
90	BASSWOOD	26	2	GOOD	EXISTING TREE TO REMAIN
91	BASSWOOD	21	3	GOOD	EXISTING TREE TO REMAIN
92	IRONWOOD	21	3	GOOD	EXISTING TREE TO REMAIN
93	SUGAR MAPLE	11	3	GOOD	EXISTING TREE TO REMAIN
94	MANITOBA MAPLE	20	4	GOOD	EXISTING TREE TO REMAIN
95	SWAMP WHITE OAK	17	3	GOOD	EXISTING TREE TO REMAIN
96	SUGAR MAPLE	19	3	GOOD	EXISTING TREE TO REMAIN
97	WHITE ELM	43	6	GOOD	EXISTING TREE TO REMAIN
98	SUGAR MAPLE	18	2	POTENTIAL TROUBLE	EXISTING TREE TO REMAIN
99	SUGAR MAPLE	18	4	GOOD	EXISTING TREE TO REMAIN
100	SUGAR MAPLE	10	2	POTENTIAL TROUBLE	EXISTING TREE TO REMAIN
101	SUGAR MAPLE	10	1	POTENTIAL TROUBLE	EXISTING TREE TO REMAIN
102	SUGAR MAPLE	21	3	SATISFACTORY	EXISTING TREE TO REMAIN
103	SUGAR MAPLE	15	3	POTENTIAL TROUBLE	EXISTING TREE TO REMAIN
104	SUGAR MAPLE	52	5	GOOD	EXISTING TREE TO REMAIN
105	SUGAR MAPLE	24	2	GOOD	EXISTING TREE TO REMAIN
106	WHITE ELM	13	2	GOOD	EXISTING TREE TO REMAIN
107	SUGAR MAPLE	39	4	GOOD	EXISTING TREE TO REMAIN
108	SUGAR MAPLE	25	4	GOOD	EXISTING TREE TO REMAIN
109	SUGAR MAPLE	55	5	GOOD	EXISTING TREE TO REMAIN
110	SUGAR MAPLE	68	6	GOOD	EXISTING TREE TO REMAIN
111	SUGAR MAPLE	45	5	GOOD	EXISTING TREE TO REMAIN
112	SUGAR MAPLE	42	5	GOOD	EXISTING TREE TO REMAIN

TREE INVENTORY & ACTION REQUIRED BY CONTRACTOR

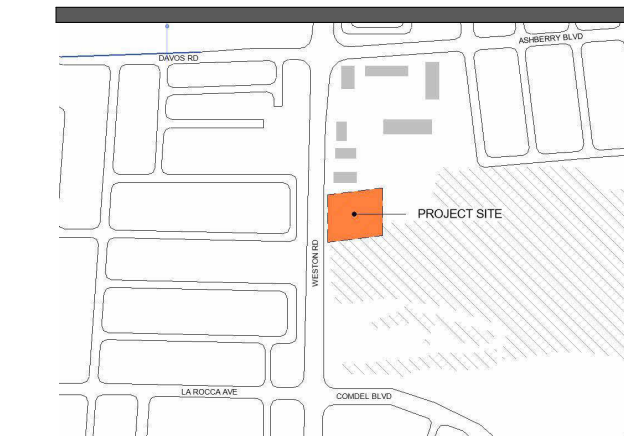
TREE #	SPECIES	DBH (cm)	DIAMETER (m)	CONDITION	ACTION REQUIRED BY CONTRACTOR
40	EUROPEAN BEECH	17	1	GOOD	CONTRACTOR TO REMOVE AND DISPOSE OF TREE, STUMP AND ROOT SYSTEM, DBH <20CM
178	NORWAY MAPLE	25	2	POTENTIAL TROUBLE	CONTRACTOR TO REMOVE AND DISPOSE OF TREE, STUMP AND ROOT SYSTEM, DBH >20CM
2	EUROPEAN BEECH	15	1	GOOD	EXISTING TREE TO REMAIN
3	EUROPEAN BEECH	17	2	GOOD	EXISTING TREE TO REMAIN
4	EUROPEAN BEECH	18	2	GOOD	EXISTING TREE TO REMAIN
5	EUROPEAN BEECH	17	2	GOOD	EXISTING TREE TO REMAIN
6	EUROPEAN BEECH	17	2	GOOD	EXISTING TREE TO REMAIN
7	EUROPEAN BEECH	16	3	GOOD	EXISTING TREE TO REMAIN
8	EUROPEAN BEECH	16	3	GOOD	EXISTING TREE TO REMAIN
9	EUROPEAN BEECH	18	3	GOOD	EXISTING TREE TO REMAIN
10	EUROPEAN BEECH	10	1	GOOD	EXISTING TREE TO REMAIN
11	EUROPEAN BEECH	17	2	GOOD	EXISTING TREE TO REMAIN
12	EUROPEAN BEECH	18	3	GOOD	EXISTING TREE TO REMAIN
14	SILVER MAPLE	22	3	GOOD	EXISTING TREE TO REMAIN
19	BLACK WALNUT	44	5	GOOD	EXISTING TREE TO REMAIN
20	BASSWOOD	22	3	GOOD	EXISTING TREE TO REMAIN
21	SILVER MAPLE	19	3	GOOD	EXISTING TREE TO REMAIN
22	SILVER MAPLE	23	3	GOOD	EXISTING TREE TO REMAIN
23	SILVER MAPLE	20	3	GOOD	EXISTING TREE TO REMAIN
24	SILVER MAPLE	22	3	GOOD	EXISTING TREE TO REMAIN
25	CRABAPPLE	19	2	GOOD	EXISTING TREE TO REMAIN
26	HONEY LOCUST	17	2	GOOD	EXISTING TREE TO REMAIN
27	HONEY LOCUST	17	2	GOOD	EXISTING TREE TO REMAIN
28	KENTUCKY COFFEE TREE	13	2	GOOD	EXISTING TREE TO REMAIN
29	HONEY LOCUST	14	2	GOOD	EXISTING TREE TO REMAIN
30	EUROPEAN BEECH	20	3	GOOD	EXISTING TREE TO REMAIN
31	EUROPEAN BEECH	17	2	GOOD	EXISTING TREE TO REMAIN
32	EUROPEAN BEECH	17	2	GOOD	EXISTING TREE TO REMAIN
33	EUROPEAN BEECH	16	2	GOOD	EXISTING TREE TO REMAIN
34	EUROPEAN BEECH	19	2	GOOD	EXISTING TREE TO REMAIN
35	EUROPEAN BEECH	19	3	GOOD	EXISTING TREE TO REMAIN
36	EUROPEAN BEECH	16	3	GOOD	EXISTING TREE TO REMAIN
37	EUROPEAN BEECH	22	3	GOOD	EXISTING TREE TO REMAIN
38	EUROPEAN BEECH	18	2	GOOD	EXISTING TREE TO REMAIN
39	EUROPEAN BEECH	17	2	GOOD	EXISTING TREE TO REMAIN
41	SILVER MAPLE	11	2	GOOD	EXISTING TREE TO REMAIN
42	ELM	12	2	GOOD	EXISTING TREE TO REMAIN
43	ELM	14	2	GOOD	EXISTING TREE TO REMAIN
44	ELM	13	2	GOOD	EXISTING TREE TO REMAIN
45	HONEY LOCUST	18	3	GOOD	EXISTING TREE TO REMAIN
46	LONDON PLANE TREE	20	3	GOOD	EXISTING TREE TO REMAIN
47	EUROPEAN BEECH	17	2	GOOD	EXISTING TREE TO REMAIN
48	HONEY LOCUST	14	2	GOOD	EXISTING TREE TO REMAIN
49	LONDON PLANE TREE	29	4	GOOD	EXISTING TREE TO REMAIN
50	LONDON PLANE TREE	26	4	GOOD	EXISTING TREE TO REMAIN
51	SILVER MAPLE	24	3	GOOD	EXISTING TREE TO REMAIN
52	SILVER MAPLE	29	4	GOOD	EXISTING TREE TO REMAIN
53	LONDON PLANE TREE	20	3	GOOD	EXISTING TREE TO REMAIN
54	KENTUCKY COFFEE TREE	14	3	GOOD	EXISTING TREE TO REMAIN
55	KENTUCKY COFFEE TREE	11	2	GOOD	EXISTING TREE TO REMAIN



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ISSUE OR REVISION

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION	2022-08-30
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-06-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP. 22.V.0191

CITY OF VAUGHAN
FIRE STATION 7-12
 9511 WESTON ROAD, VAUGHAN



CLIENT
VAUGHAN
 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
 197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE
**TREE INVENTORY/
 REMOVAL/
 PRESERVATION
 PLAN SCHEDULES**

ORIENTATION

DATE	2021-11-24
SCALE	DRAWN BY SRL
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A2.4
REVISION	30

2024-09-09 4:04:38 PM

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
8	MINOR VARIANCE	2022-06-27
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-06-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

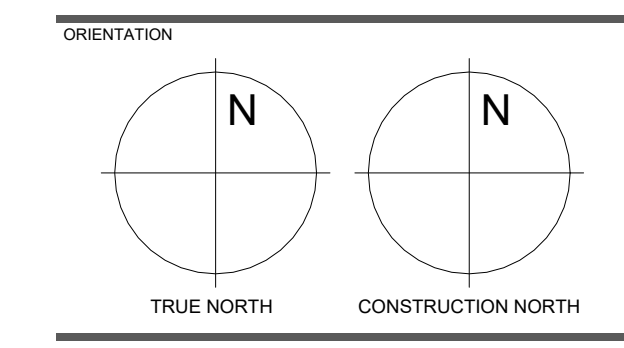


THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

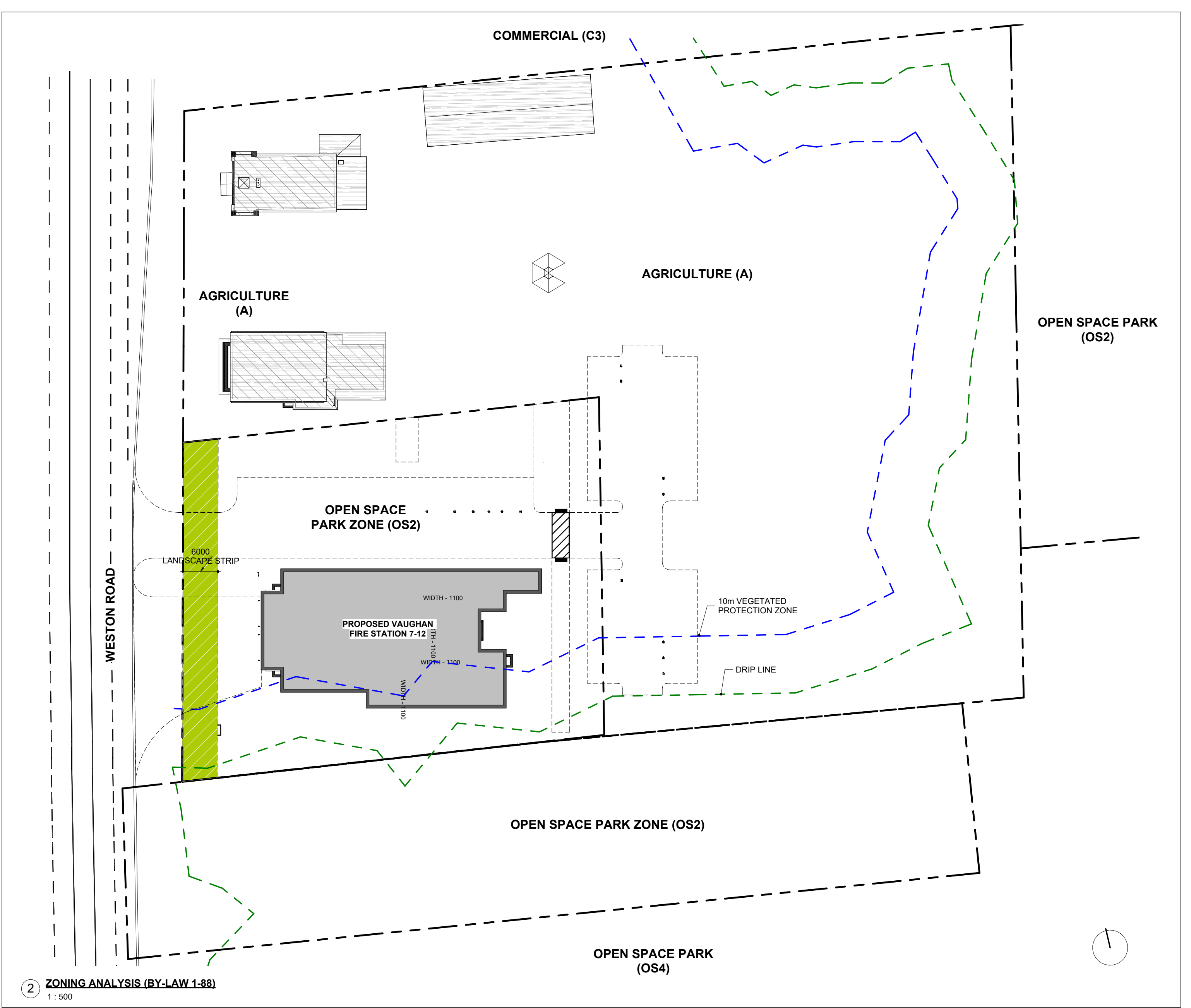
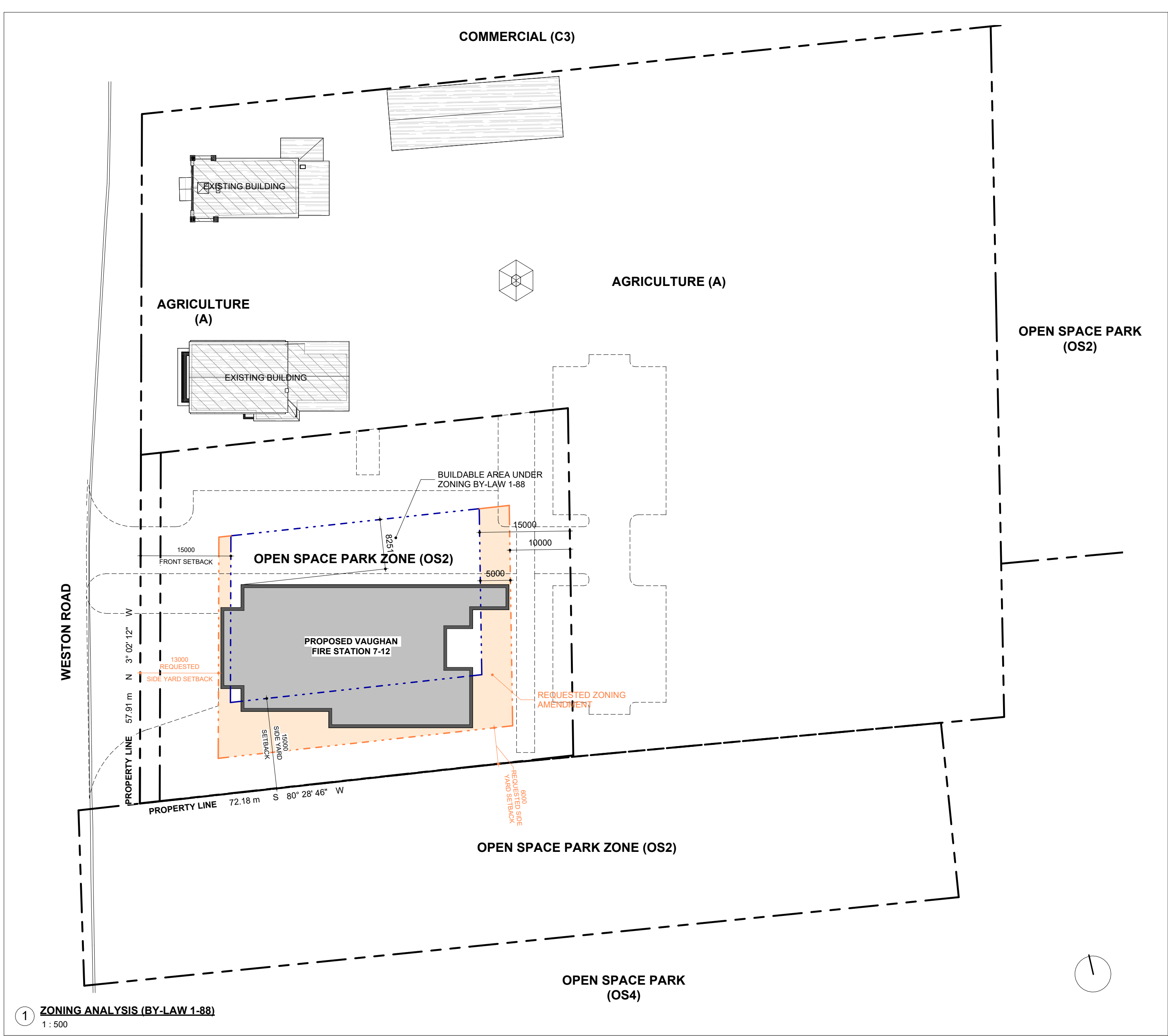
ARCHITECT
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PROFESSIONAL SEAL

SITE PLAN - ZONING BY-LAW 1-88 ANALYSIS



DATE: 2021-11-24
SCALE: As indicated DRAWN BY: SRL
DWG STATUS: TENDER
PROJECT No: 2104
DRAWING No: A2.5 REVISION: 30



PROJECT SITE STATISTICS DATA						
ZONING INFORMATION						
ITEM	DESCRIPTION	DESCRIPTION				
1	ZONING BY-LAW	BY-LAW 1-88				
2	ZONING CATEGORY	PUBLIC OPEN SPACE ZONE (OS2)				
3	PERMITTED USES	EMERGENCY SERVICES (INSTITUTIONAL PERMITTED IN OS2)				
4	LOT AND PLAN NUMBER	PART OF LOT 17 CONCESSION 5				
LOT REQUIREMENTS						
ITEM	DESCRIPTION	REQUIRED	PROPOSED	COMPLIANCE	ACTION	
5	LOT AREA	N/R	4,138.70 m ²	m ²	NOT APPLICABLE	NO ACTION
6	LOT FRONTAGE MINIMUM	N/R	N/R	m	NOT APPLICABLE	NO ACTION
7	LOT COVERAGE MAXIMUM %	N/R	22.23 %	%	NOT APPLICABLE	NO ACTION
8	LANDSCAPED AREA MINIMUM	N/R	709.19 m ²	m ²	NOT APPLICABLE	NO ACTION
9	GREEN ROOF AREA	N/R	N/R	m ²	NOT APPLICABLE	NO ACTION
10	FRONT YARD LANDSCAPE MINIMUM	N/R	N/R	%	NOT APPLICABLE	NO ACTION
11	HARDSCAPED AREA (HIGH ALBEDO)	N/R	509.88 m ²	m ²	NOT APPLICABLE	NO ACTION
12	PAVED AREA	N/R	1,999.68 m ²	m ²	NOT APPLICABLE	NO ACTION
PRINCIPAL BUILDING REQUIREMENTS						
ITEM	DESCRIPTION	REQUIRED	PROPOSED	COMPLIANCE	ACTION	
13	BUILDING HEIGHT MAXIMUM	11.00	14.60	m	NOT COMPLIANT	AMENDMENT RE'QD
14	FLOOR SPACE INDEX	N/A	0.22	FSI	NOT APPLICABLE	NO ACTION
15	BUILDING FOOTPRINT	N/A	919.96	m ²	NOT APPLICABLE	NO ACTION
16	GROSS BUILDING AREA	N/R	919.96	m ²	NOT APPLICABLE	NO ACTION
17	ESTABLISHED GRADE	N/R	N/R	m	NOT APPLICABLE	NO ACTION
PARKING / LOADING / BICYCLE SPACES						
ITEM	DESCRIPTION	REQUIRED	PROPOSED	COMPLIANCE	ACTION	
18	PARKING SPACES	18.00	45.00		COMPLIANT	NO ACTION
19	PARKING SPACES FOR PERSONS WITH DISABILITIES	1.00	4.00		COMPLIANT	NO ACTION
20	BICYCLE PARKING	N/R	N/R		NOT REQUIRED	NO ACTION
21	LOADING SPACES	N/R	N/R		NOT REQUIRED	NO ACTION
BUILDING TO PROPERTY SETBACKS						
ITEM	DESCRIPTION	REQUIRED	PROPOSED	COMPLIANCE	ACTION	
22	FRONT YARD SETBACK	15.00	13.00	m	NOT COMPLIANT	AMENDMENT RE'QD
23	SIDE YARD SETBACK	15.00	23.24	m	COMPLIANT	NO ACTION
24	REAR YARD SETBACK	15.00	10.00	m	NOT COMPLIANT	AMENDMENT RE'QD
25	SIDE YARD SETBACK	15.00	6.00	m	NOT COMPLIANT	AMENDMENT RE'QD
LANDSCAPE BUFFER PROPERTY SETBACKS						
ITEM	DESCRIPTION	REQUIRED	PROPOSED	COMPLIANCE	ACTION	
26	LANDSCAPE SETBACK FRONT YARD	6.00	6.00	m	COMPLIANT	NO ACTION
27	LANDSCAPE SETBACK SIDE YARD	N/R	N/R	m	NOT REQUIRED	NO ACTION
28	LANDSCAPE SETBACK REAR YARD	N/R	N/R	m	NOT REQUIRED	NO ACTION
29	LANDSCAPE SETBACK SIDE YARD	N/R	N/R	m	NOT REQUIRED	NO ACTION

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NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

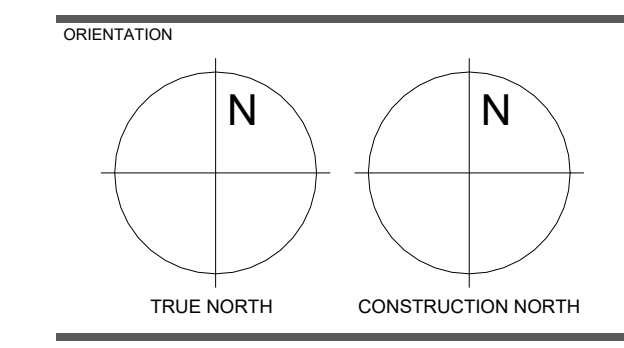


THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

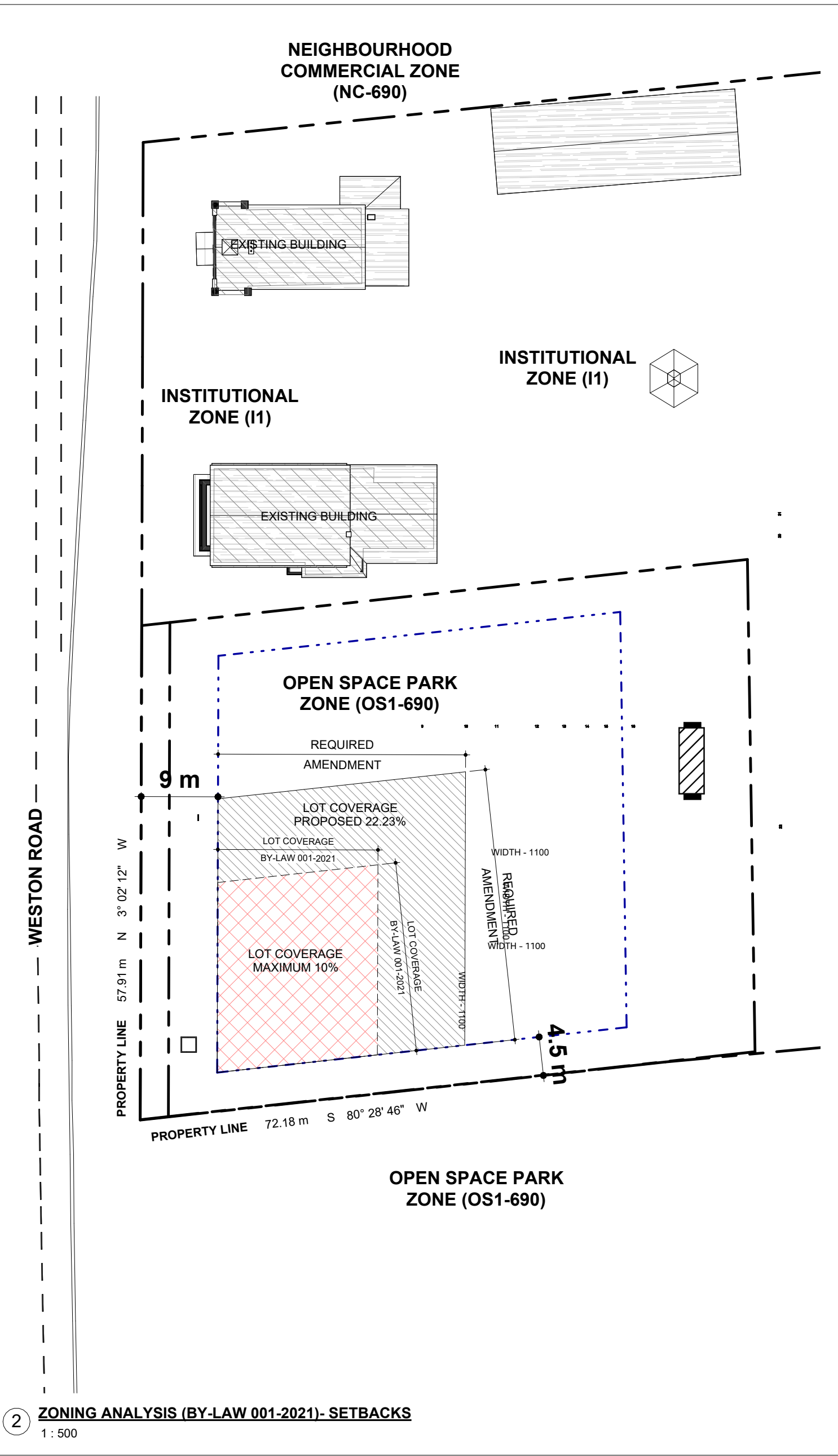
ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

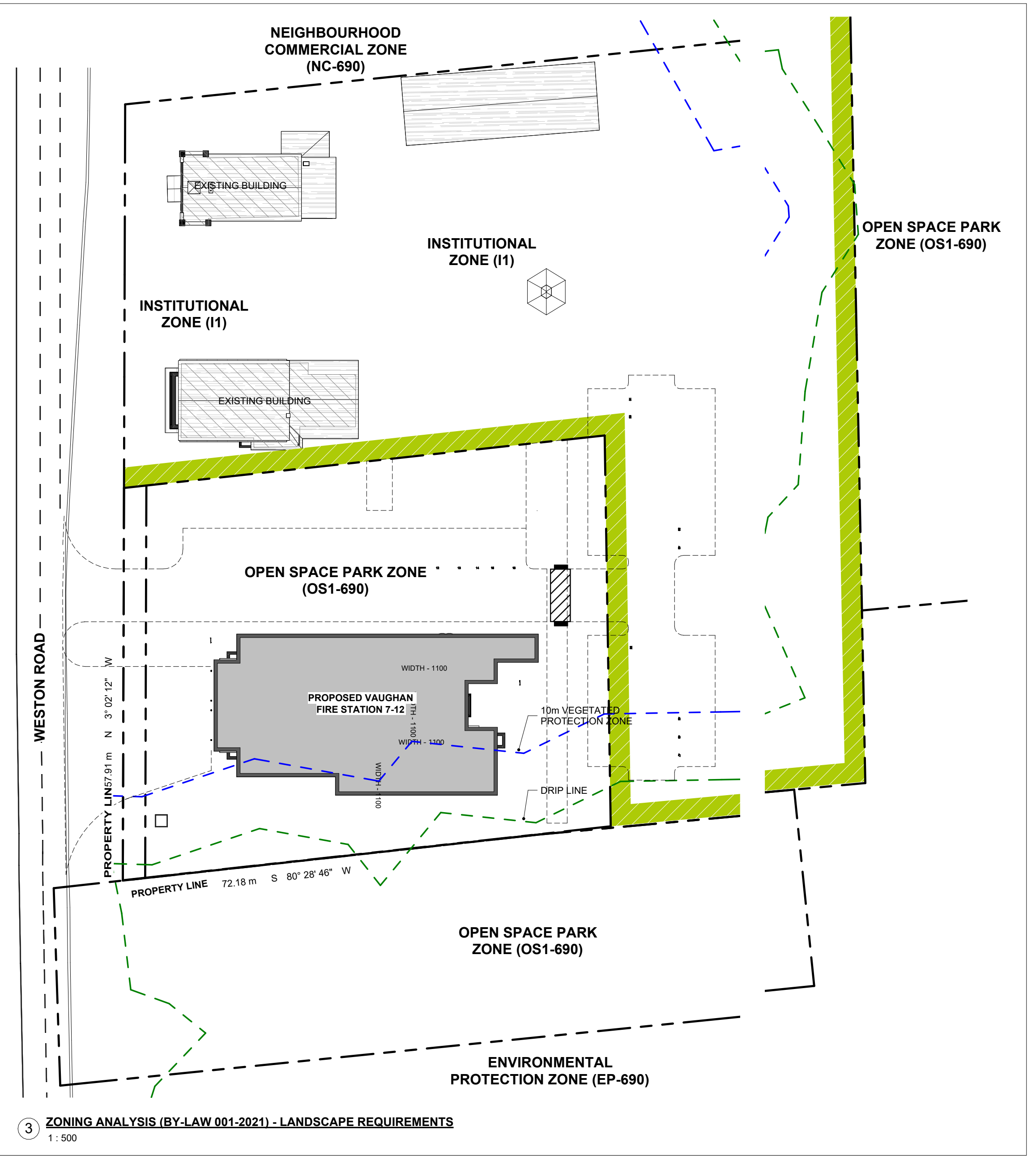
SITE PLAN - ZONING BY-LAW 001-2021 ANALYSIS



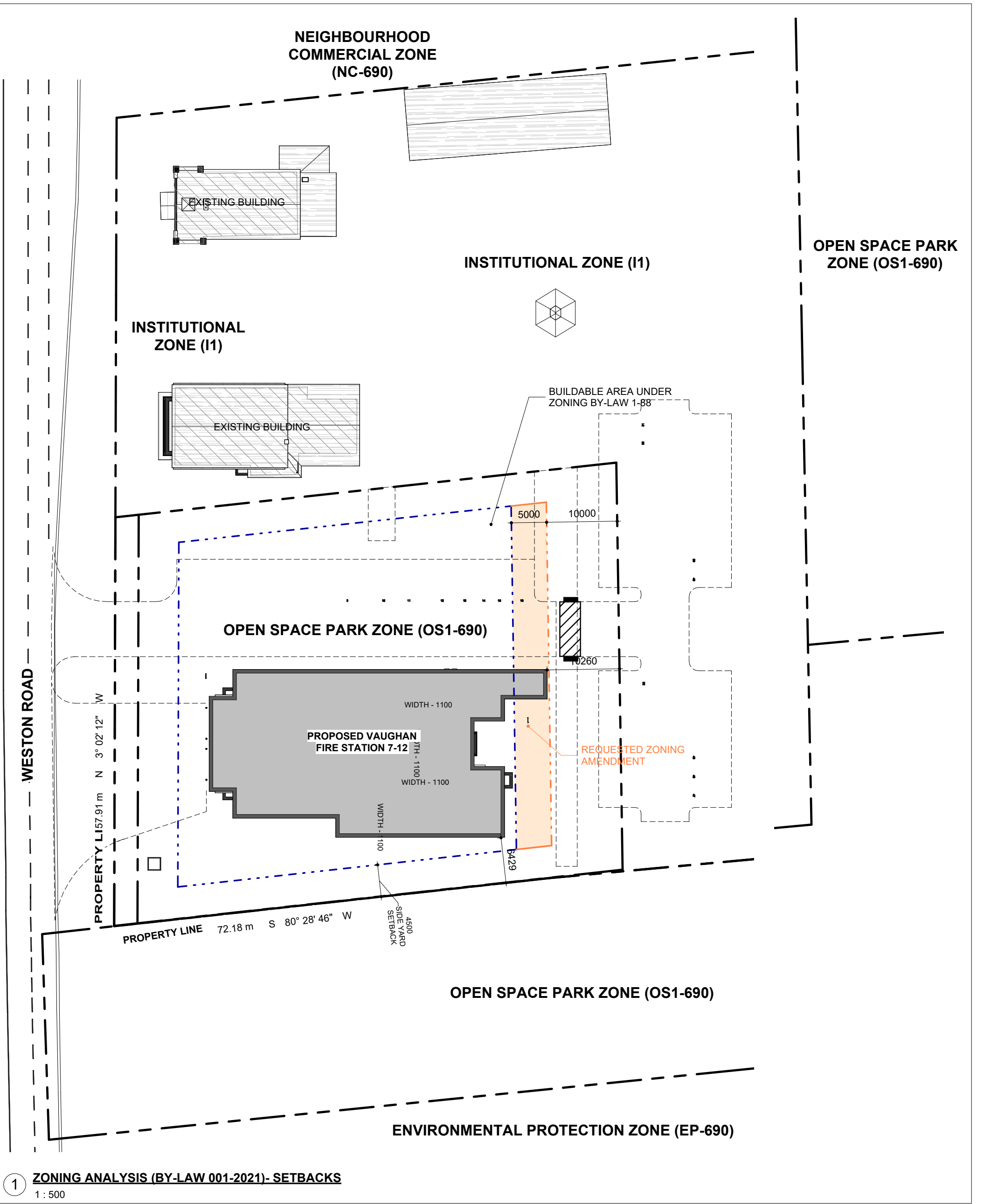
DATE: 2021-11-24
SCALE: As indicated DRAWN BY: SRL
DWG STATUS: TENDER
PROJECT No.: 2104
DRAWING No.: A2.6 REVISION: 30



2 ZONING ANALYSIS (BY-LAW 001-2021) - SETBACKS
1:500



3 ZONING ANALYSIS (BY-LAW 001-2021) - LANDSCAPE REQUIREMENTS
1:500



1 ZONING ANALYSIS (BY-LAW 001-2021) - SETBACKS
1:500

ZONING INFORMATION		PROJECT SITE STATISTICS DATA			
ITEM	DESCRIPTION	REQUIRED	PROPOSED	COMPLIANCE	ACTION
1	ZONING BY-LAW	BY-LAW 001-2021			
2	ZONING CATEGORY	PUBLIC OPEN SPACE ZONE (OS1)			
3	PERMITTED USES	EMERGENCY SERVICES (NOT PERMITTED IN OS1) - AMENDMENT REQD			
4	LOT AND PLAN NUMBER	PART OF LOT 17 CONCESSION 5			
LOT REQUIREMENTS		REQUIRED	PROPOSED	COMPLIANCE	ACTION
5	LOT AREA	N/R	4,138.70 m ²	m ²	NOT APPLICABLE NO ACTION
6	LOT FRONTAGE MINIMUM	12.00 m	N/R	m	NOT REQUIRED NO ACTION
7	LOT COVERAGE MAXIMUM %	10.00 %	22.23 %	%	NOT COMPLIANT AMENDMENT REQD
8	LANDSCAPED AREA MINIMUM	N/R	709.19 m ²	m ²	NOT REQUIRED NO ACTION
9	GREEN ROOF AREA	N/R	N/R	m ²	NOT REQUIRED NO ACTION
10	FRONT YARD LANDSCAPE MINIMUM	N/R	%	%	NOT REQUIRED NO ACTION
11	HARDSCAPED AREA (HIGH ALBEDO)	N/R	509.88 m ²	m ²	NOT REQUIRED NO ACTION
12	PAVED AREA	N/R	1,999.68 m ²	m ²	NOT REQUIRED NO ACTION
PRINCIPAL BUILDING REQUIREMENTS		REQUIRED	PROPOSED	COMPLIANCE	ACTION
13	BUILDING HEIGHT MAXIMUM	11.00 m	14.60 m	m	NOT COMPLIANT AMENDMENT REQD
14	FLOOR SPACE INDEX	N/A	FSI 0.22	FSI	NOT REQUIRED NO ACTION
15	BUILDING FOOTPRINT	N/A	919.96 m ²	m ²	NOT REQUIRED NO ACTION
16	GROSS BUILDING AREA	N/R	919.96 m ²	m ²	NOT REQUIRED NO ACTION
17	ESTABLISHED GRADE	N/R	N/R	m	NOT REQUIRED NO ACTION
PARKING / LOADING / BICYCLE SPACES		REQUIRED	PROPOSED	COMPLIANCE	ACTION
18	PARKING SPACES	18.00	45.00		COMPLIANT NO ACTION
19	PARKING SPACES FOR PERSONS WITH DISABILITIES	1.00	4.00		COMPLIANT NO ACTION
20	BICYCLE PARKING	9.00	0.00		NOT REQUIRED NO ACTION
21	LOADING SPACES	N/R	N/R		NOT REQUIRED NO ACTION
BUILDING TO PROPERTY SETBACKS		REQUIRED	PROPOSED	COMPLIANCE	ACTION
22	FRONT YARD SETBACK	9.00 m	9.00 m		COMPLIANT NO ACTION
23	SIDE YARD SETBACK	4.50 m	23.24 m		COMPLIANT NO ACTION
24	REAR YARD SETBACK	15.00 m	10.00 m		NOT COMPLIANT AMENDMENT REQD
25	SIDE YARD SETBACK	4.50 m	4.50 m		COMPLIANT NO ACTION
LANDSCAPE BUFFER PROPERTY SETBACKS		REQUIRED	PROPOSED	COMPLIANCE	ACTION
26	LANDSCAPE SETBACK FRONT YARD	N/R	N/R		COMPLIANT NO ACTION
27	LANDSCAPE SETBACK SIDE YARD	N/R	N/R		NOT REQUIRED NO ACTION
28	LANDSCAPE SETBACK REAR YARD	N/R	N/R		NOT REQUIRED NO ACTION
29	LANDSCAPE SETBACK SIDE YARD	N/R	N/R		NOT REQUIRED NO ACTION

2024-09-09 4:05:04 PM

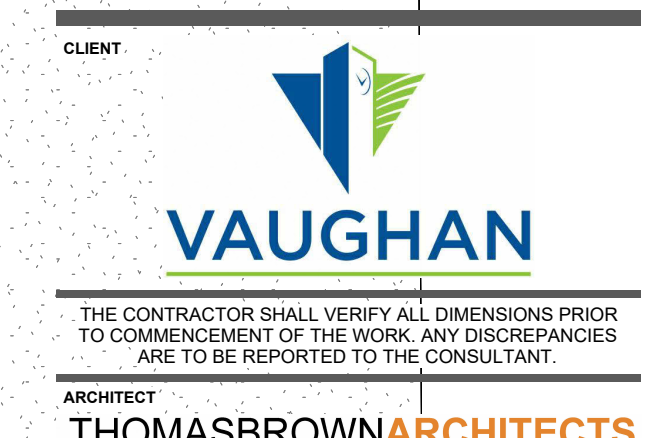
NO.	ISSUED FOR	DATE
10	SPA RE-SUBMISSION	2022-08-30
15	ROAD WIDENING - CLIENT REVIEW	2023-07-19
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR REFQ	2023-10-19
20	SPA - REVISION #2	2023-10-24
24	ISSUED FOR CLASS A	2024-02-16
25	CLIENT REVIEW - 100%	2024-03-12
26	T24-253 - FT	2024-04-15
27	ADDENDUM #1	2024-05-09
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

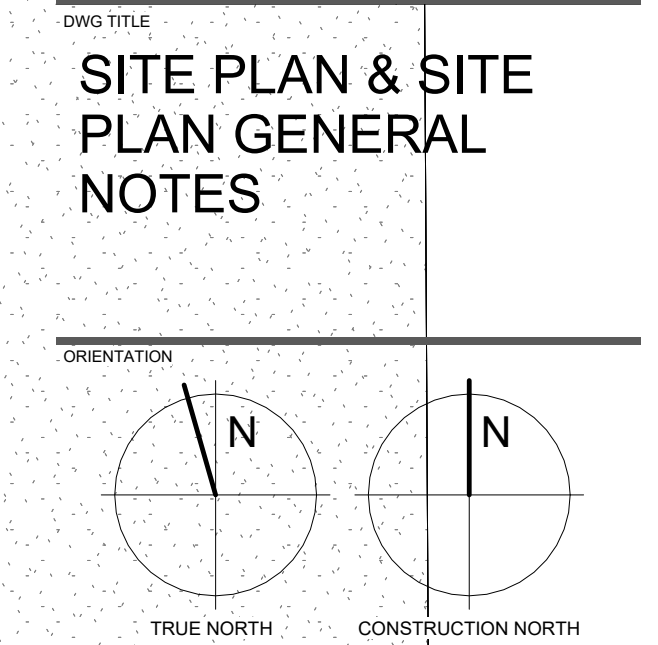
CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

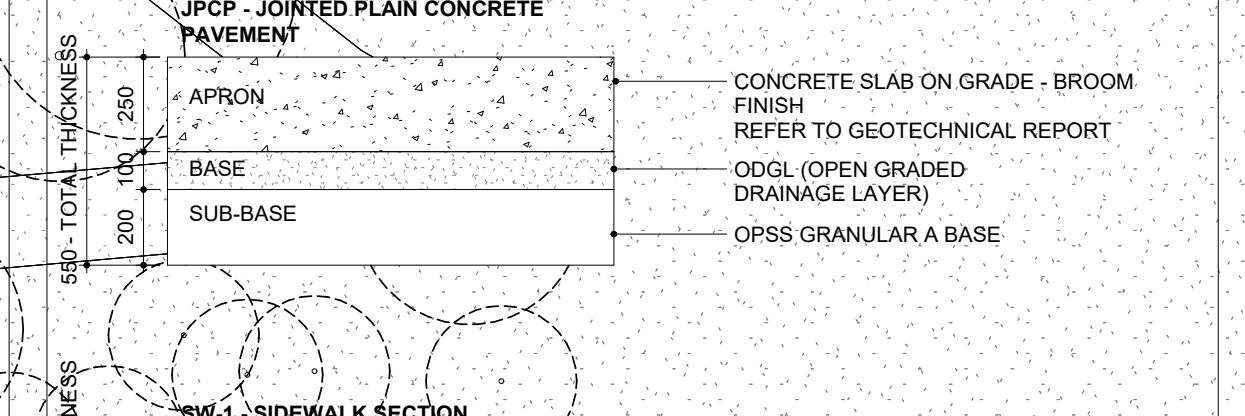
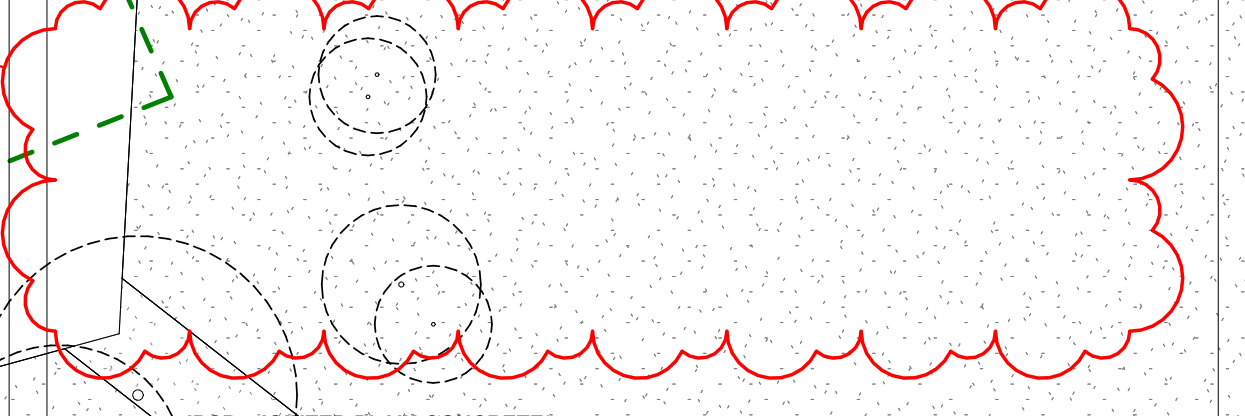
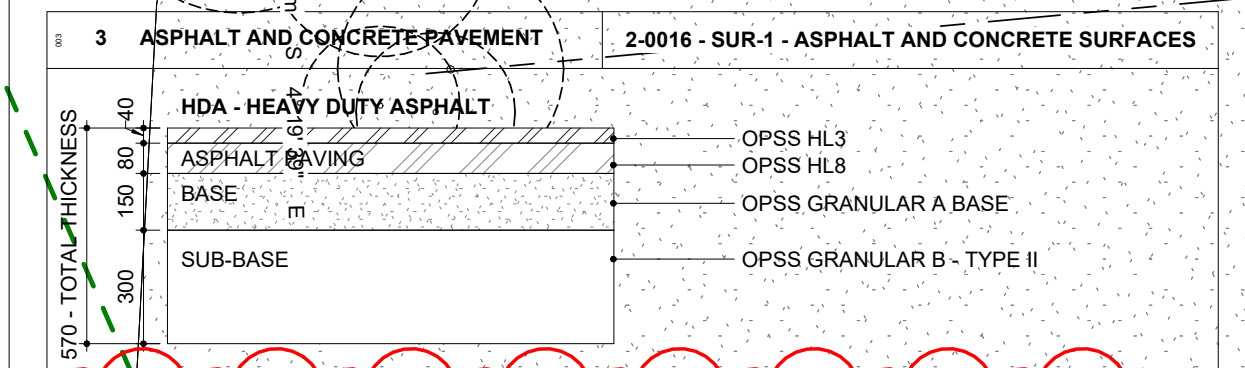
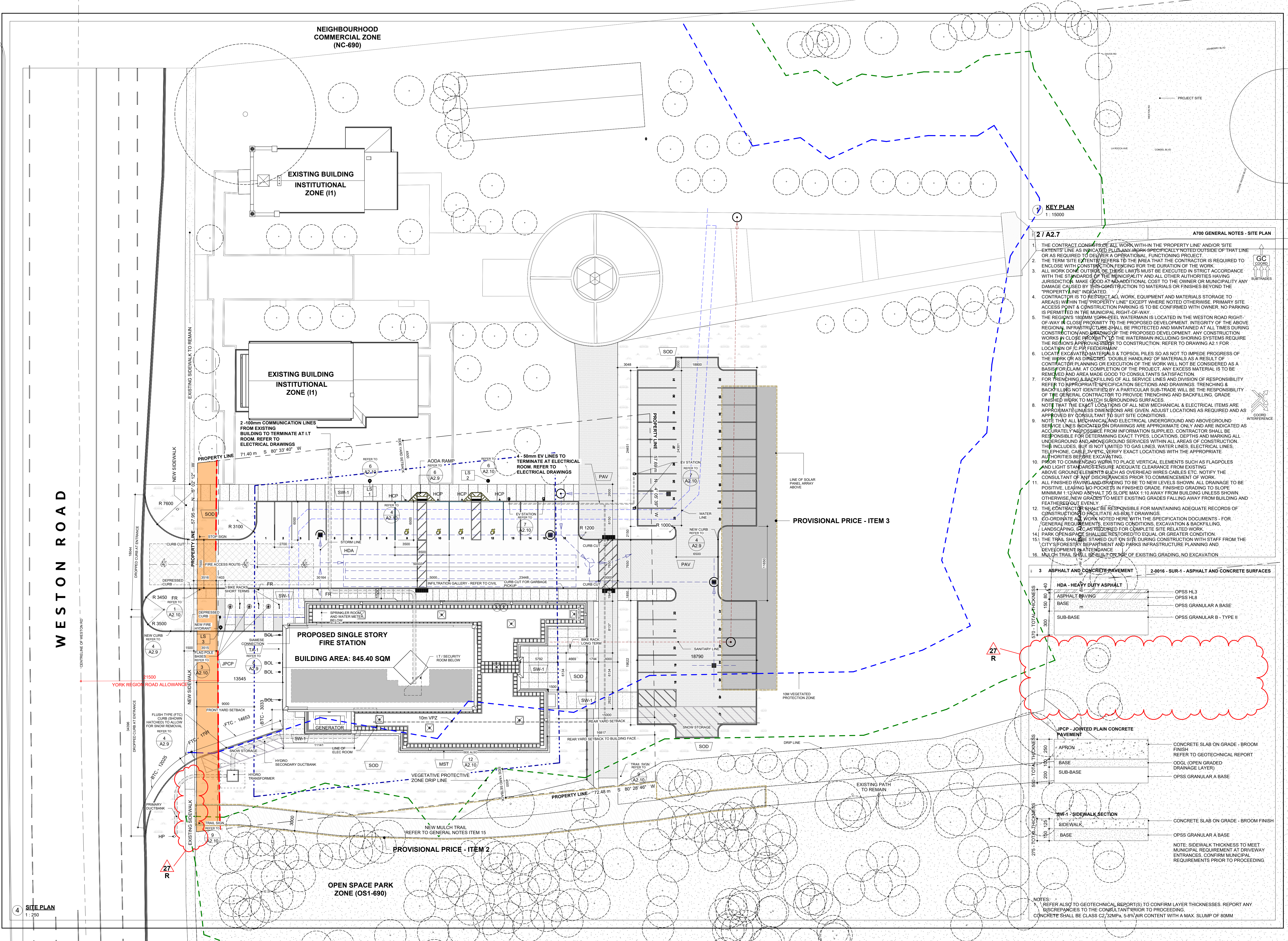


PROFESSIONAL SEAL

DWG TITLE: **SITE PLAN & SITE PLAN GENERAL NOTES**



DATE: 2021-11-24
SCALE: As indicated
DRAWN BY: SRL
DWG STATUS: TENDER
PROJECT No: 2104
DRAWING No: A2.7
REVISION: 30



NOTES:

- REFER ALSO TO GEOTECHNICAL REPORT(S) TO CONFIRM LAYER THICKNESSES. REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO PROCEEDING.
- CONCRETE SHALL BE CLASS C2/32MPa, 5-8% AIR CONTENT WITH A MAX. SLUMP OF 80MM

NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFP/Q	2023-10-19
24	ISSUED FOR CLASS A	2024-02-18
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT :

CLIENT :

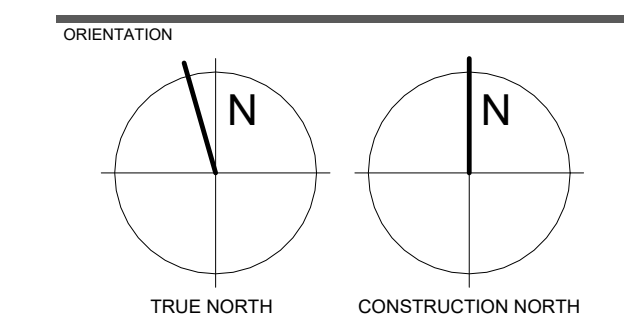


THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE
LAYOUT - SITE PLAN



DATE
2021-11-24

SCALE
As indicated

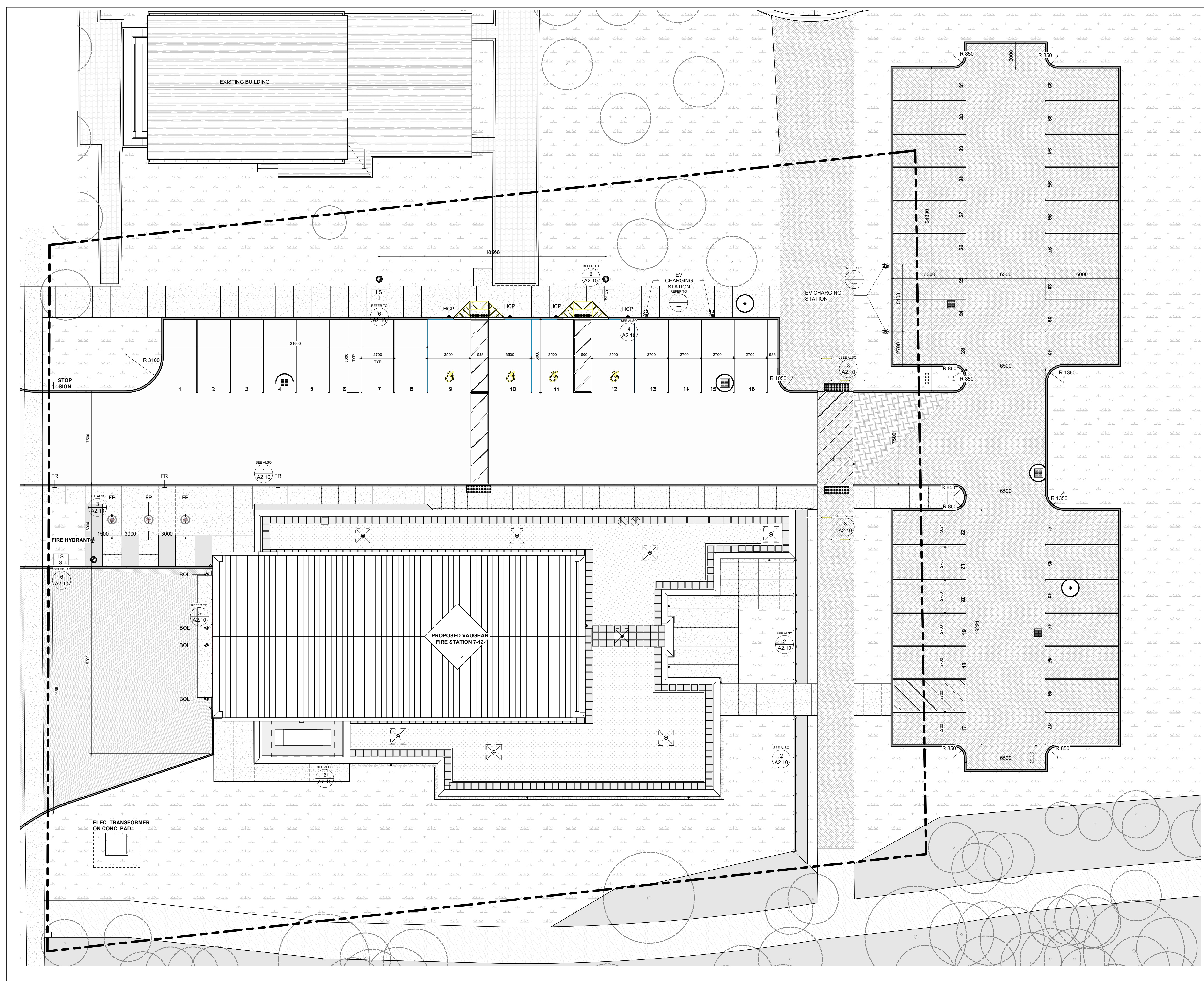
DRAWN BY
SRL

DWG STATUS
TENDER

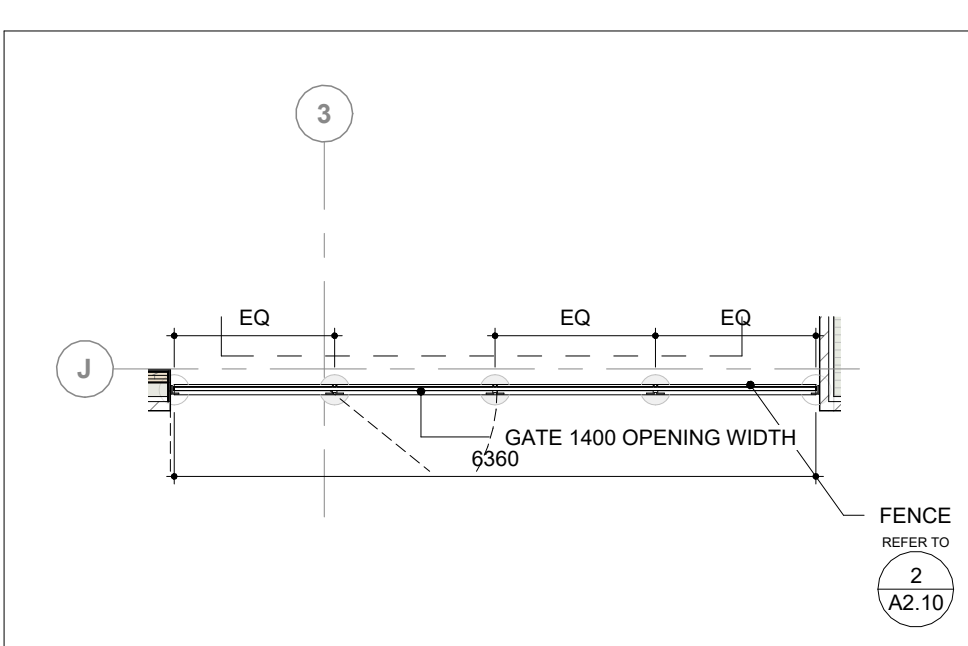
PROJECT No.
2104

DRAWING No.
A2.8

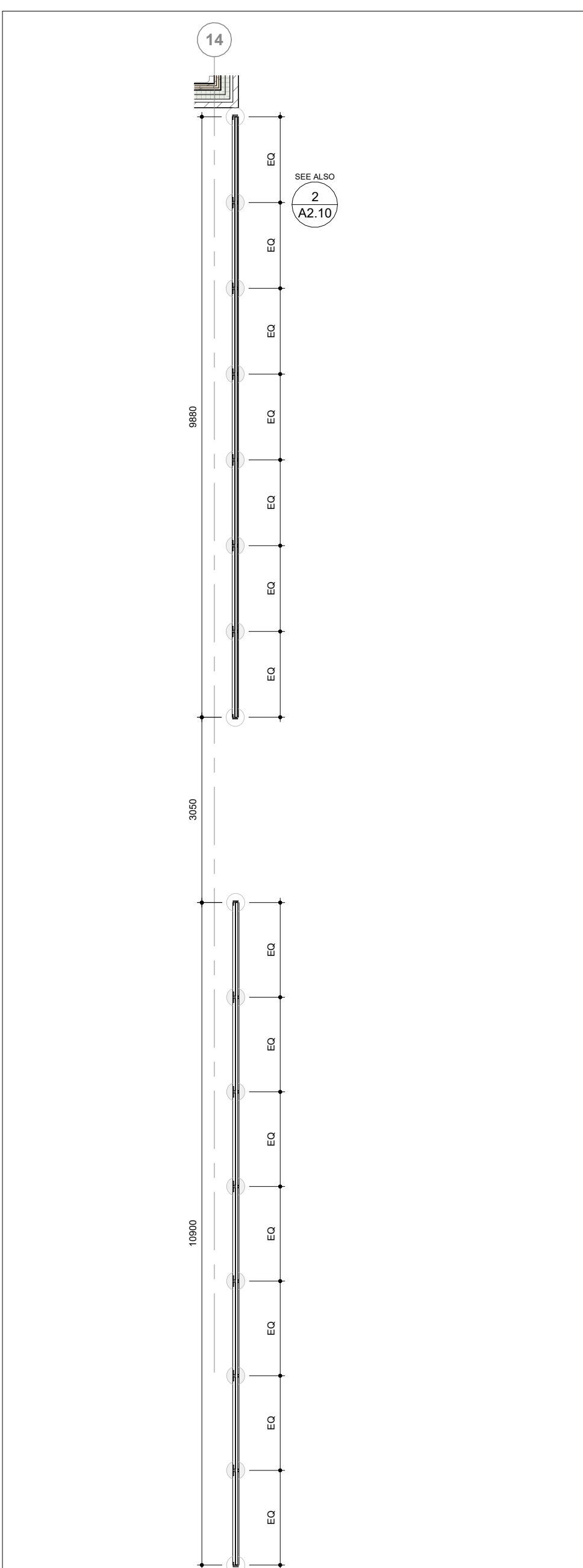
REVISION
30



1 SITE PLAN - LAYOUT PLAN
1:150



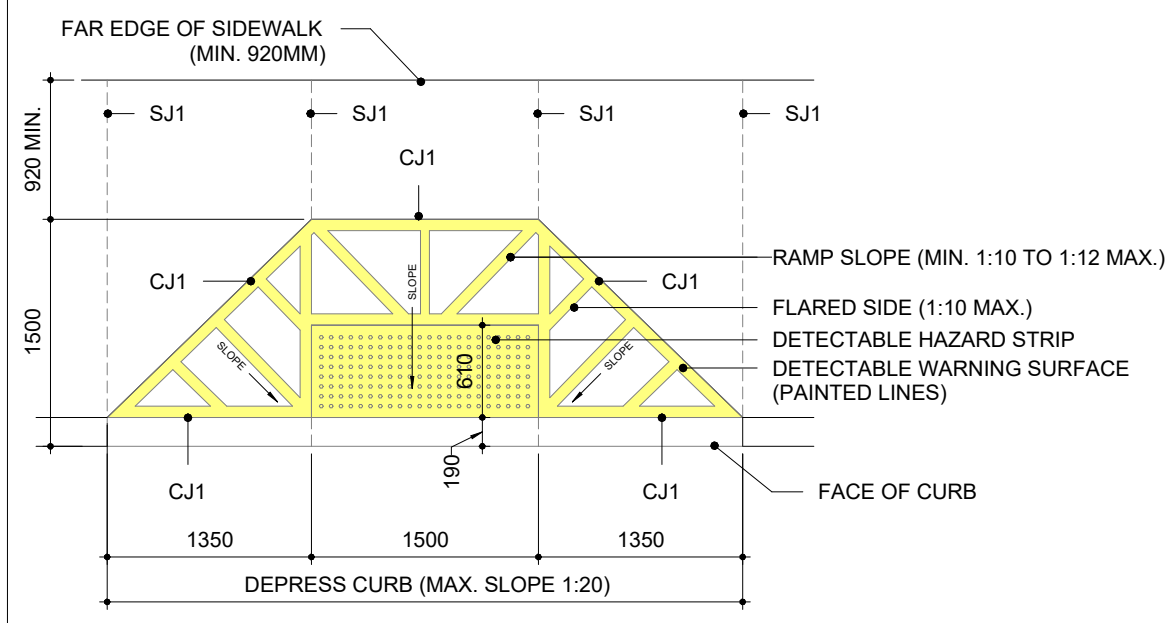
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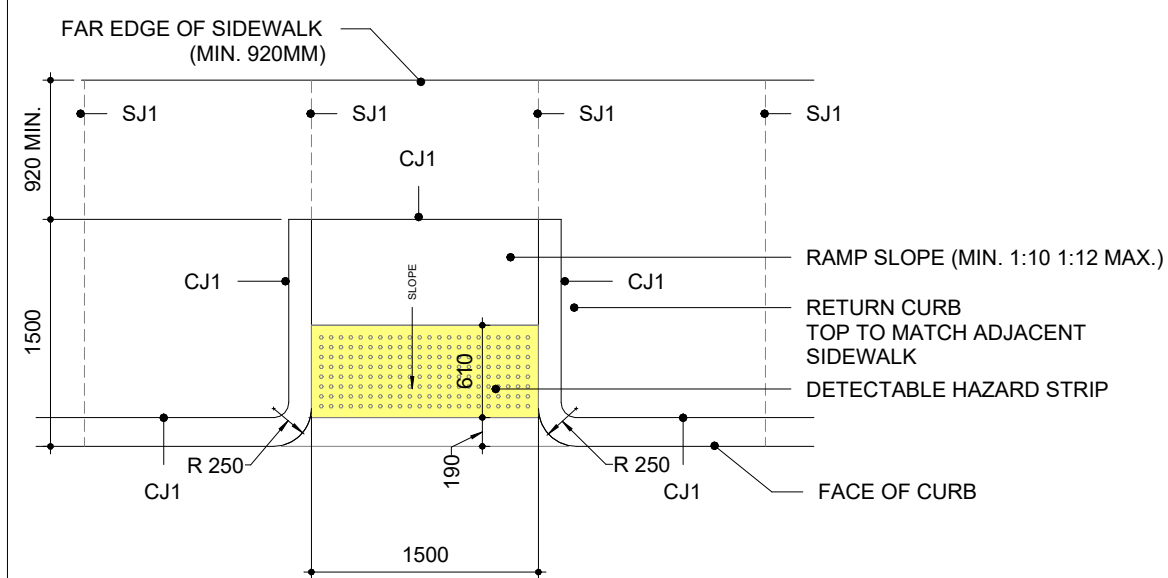
3 - Floor Plans - FROM - 5/ A3.3
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2024-09-09 4:05:32 PM

7 / A2.9 2-0008 - AODA RAMP-1 AODA PARKING SPACE DETAILS



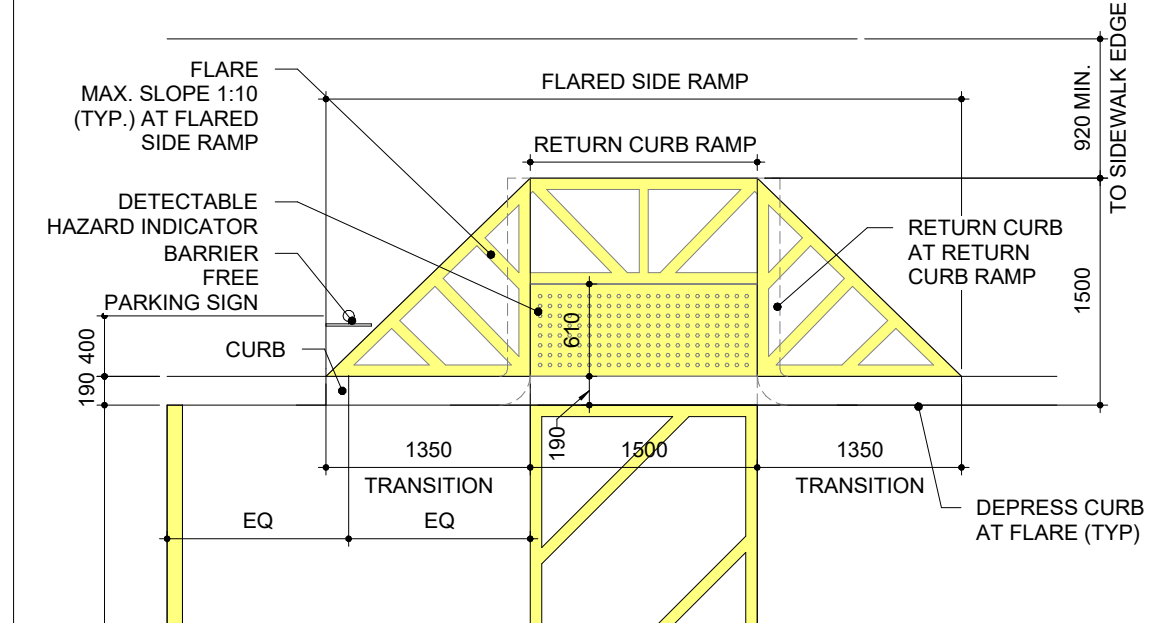
FLARED CURB RAMP DETAILS (WHERE INDICATED)



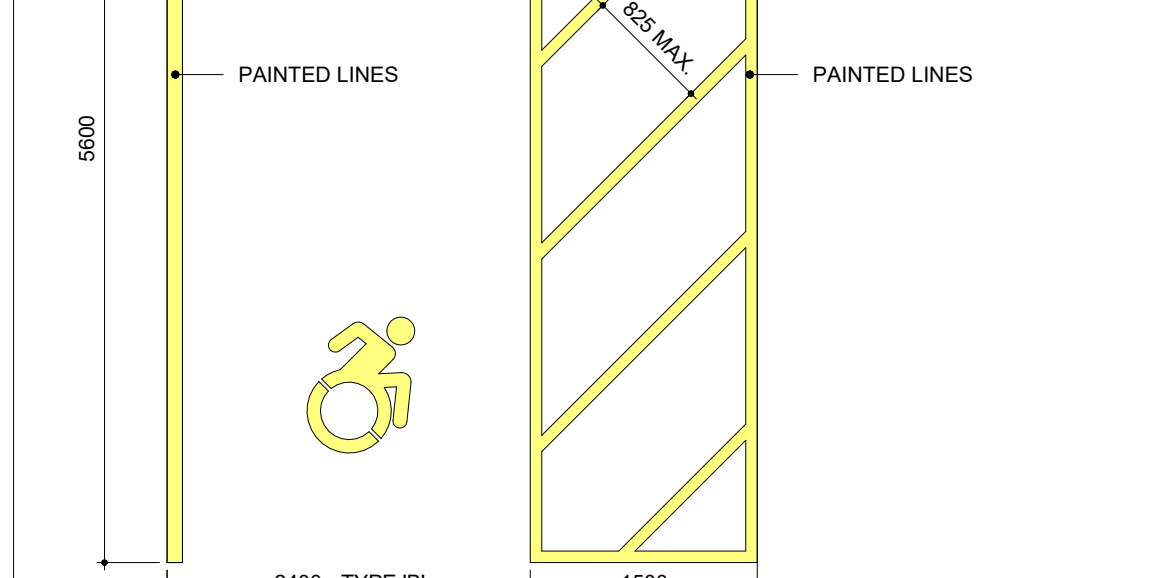
RETURN CURB RAMP DETAILS (WHERE INDICATED)

AODA MANDATORY REQUIREMENT

6 / A2.9 2-0008 - AODA PARK-1 - AODA PARKING SPACE DETAILS

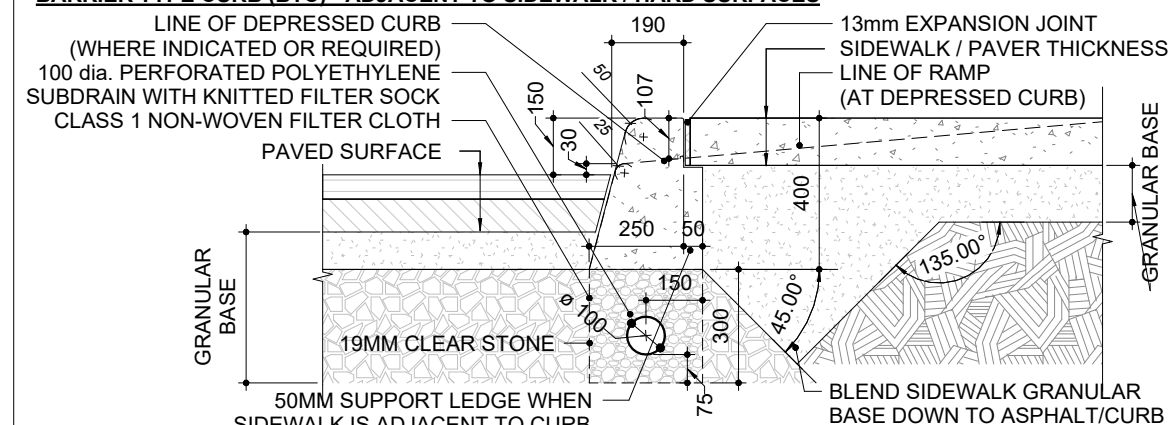


PAINTED LINES

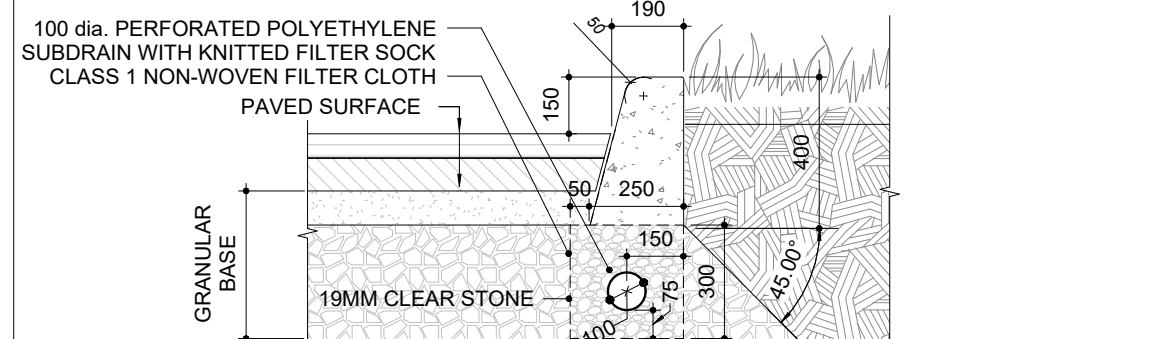


AODA MANDATORY REQUIREMENT

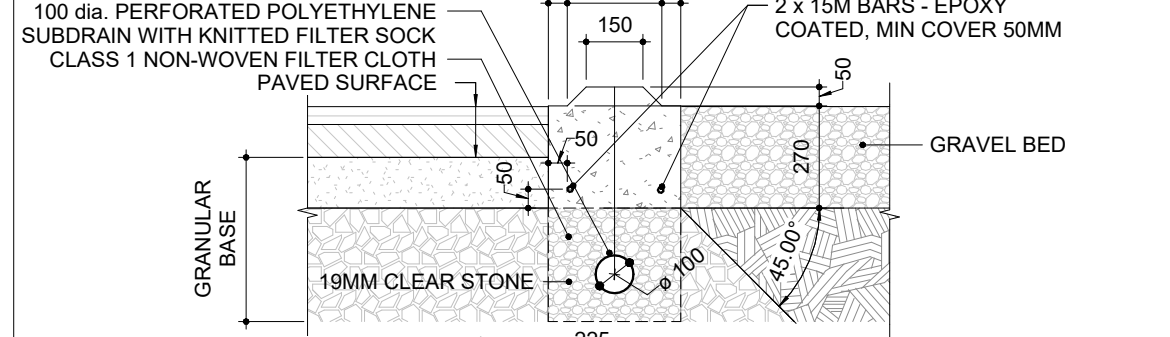
4 / A2.9 2-0011 - CD-1 - CURB DETAILS



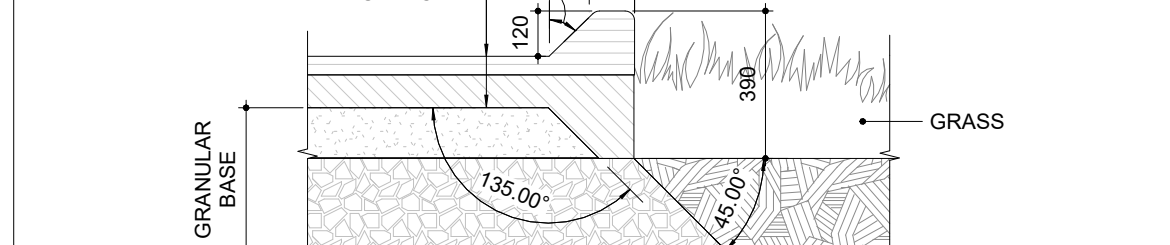
BARRIER TYPE CURB (BTC) - ADJACENT TO LANDSCAPED AREAS



FLUSH TYPE CURB (FTC)

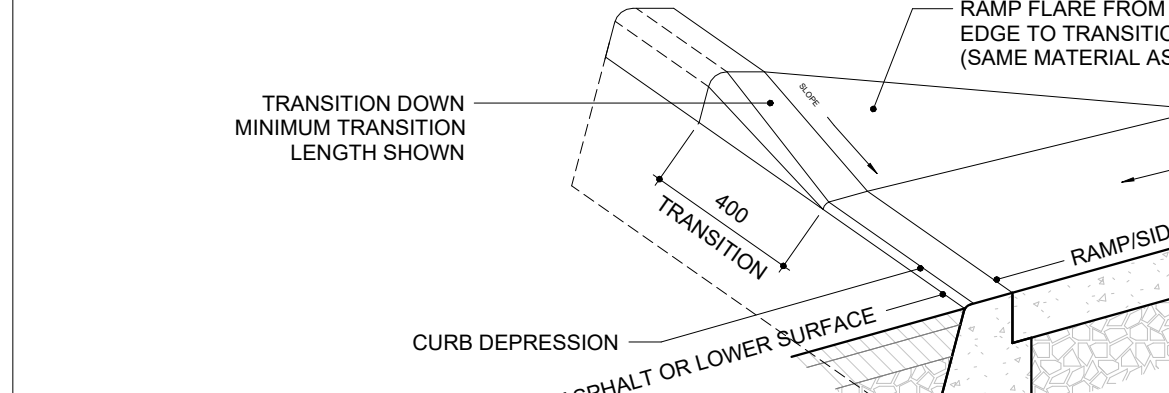
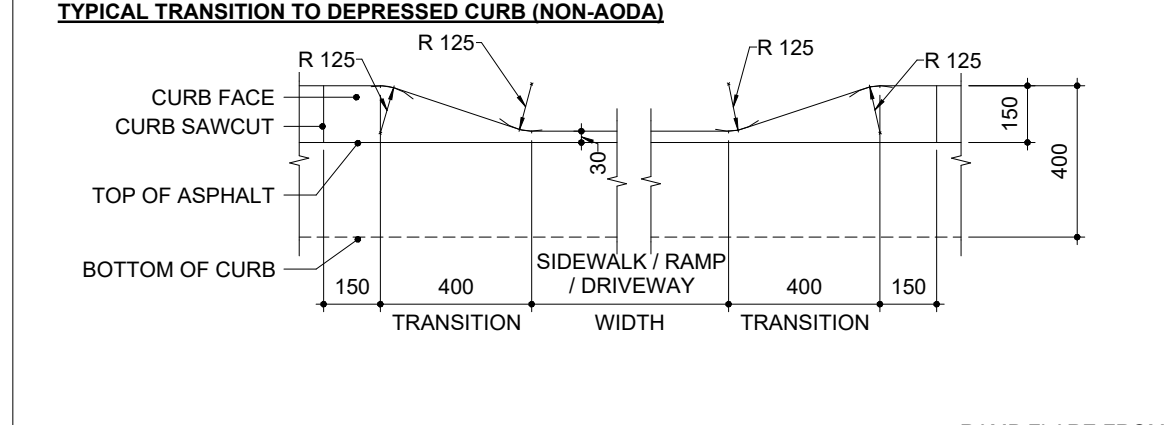


ASPHALT ROLLED TYPE CURB (ARTC)

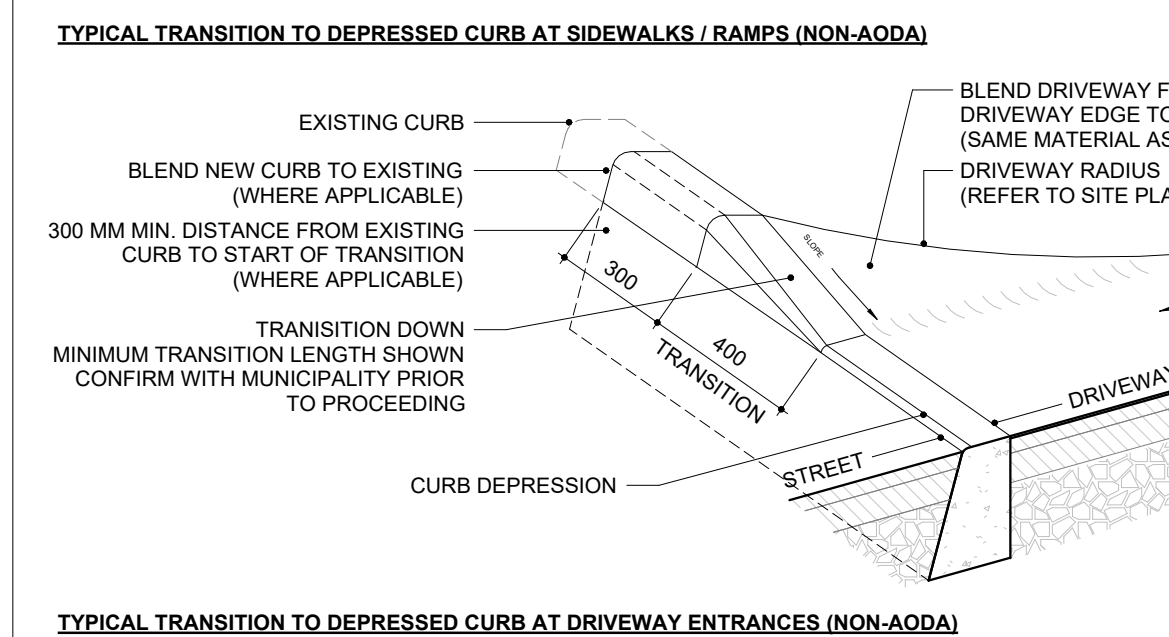


1. NOTE: NOT ALL CURB TYPES MAY BE REQUIRED. ALL CURBS SHALL BE BARRIER TYPE (ADJACENT TO SIDEWALK / HARD SURFACES OR LANDSCAPED AREAS) UNLESS SPECIFICALLY NOTED OTHERWISE. CONCRETE SHALL BE CLASS C2, 32MPa, 5-8% AIR CONTENT WITH A MAX. SLUMP OF 80MM.

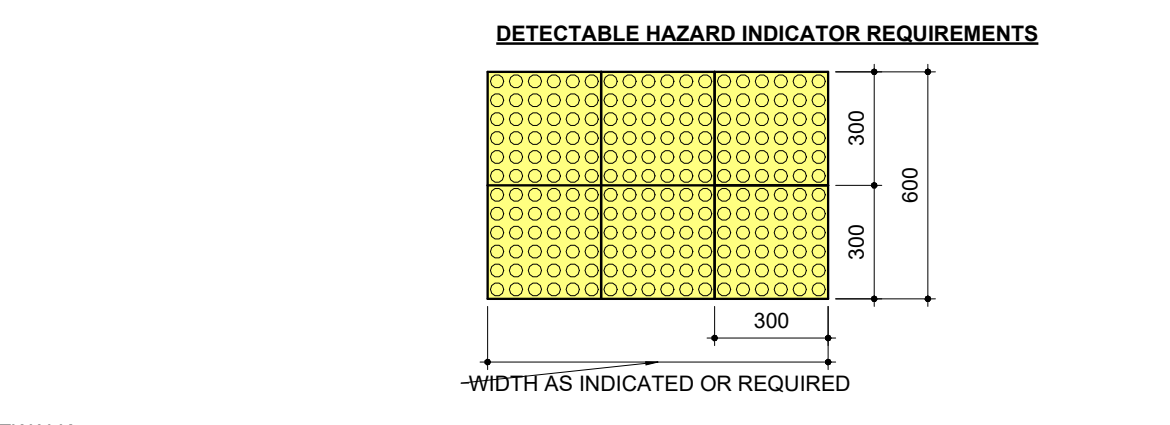
1 / A2.9 2-0012 - CD-2 - CURB AND RAMP DETAILS - SIDEWALKS AND DRIVEWAY ENTRANCES



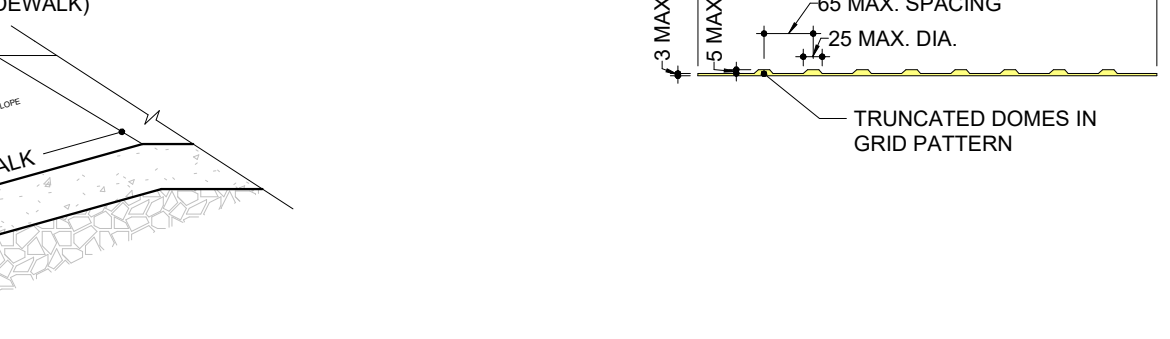
TYPICAL TRANSITION TO DEPRESSED CURB AT DRIVEWAY ENTRANCES (NON-AODA)



2-0012 - CD-2 - CURB AND RAMP DETAILS - SIDEWALKS AND DRIVEWAY ENTRANCES

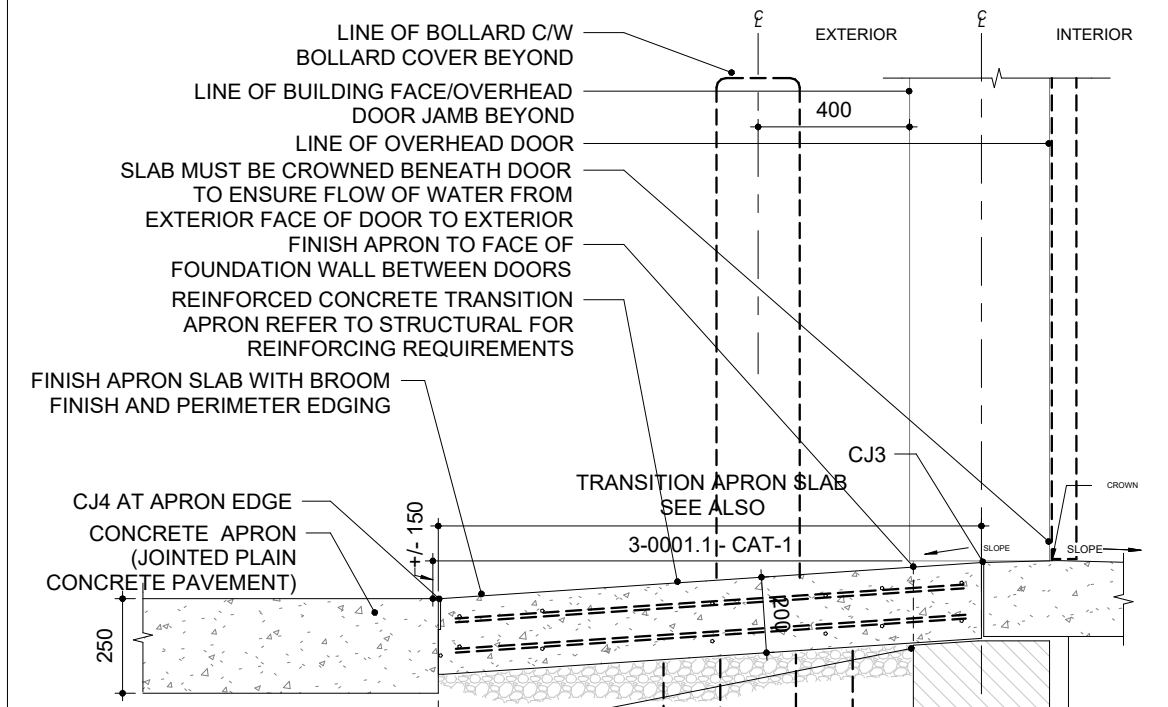


AODA MANDATORY REQUIREMENT



AODA MANDATORY REQUIREMENT

8 / A2.9 3-0002 - CAC-1 - CONCRETE TRANSITION APRON TYPICAL (CONCRETE)

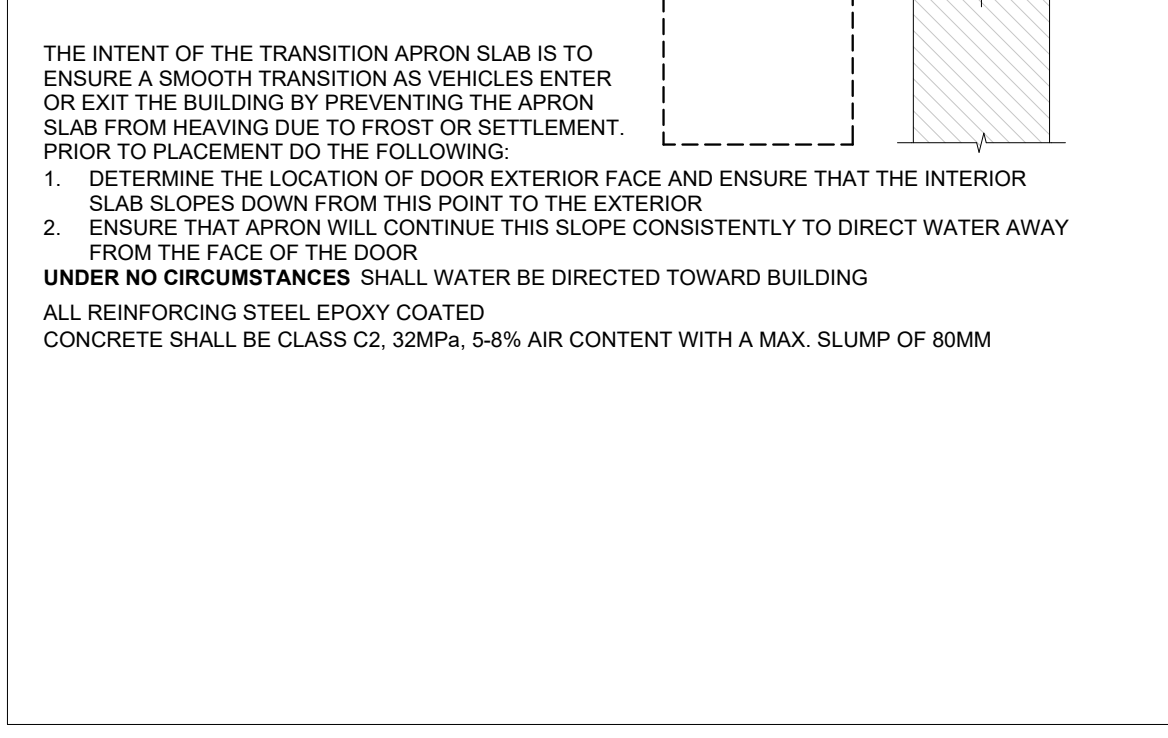


THE INTENT OF THE TRANSITION APRON SLAB IS TO ENSURE A SMOOTH TRANSITION AS VEHICLES ENTER OR EXIT THE BUILDING BY PREVENTING THE APRON SLAB FROM HEAVING DUE TO FROST OR SETTLEMENT. PRIOR TO PLACEMENT DO THE FOLLOWING:

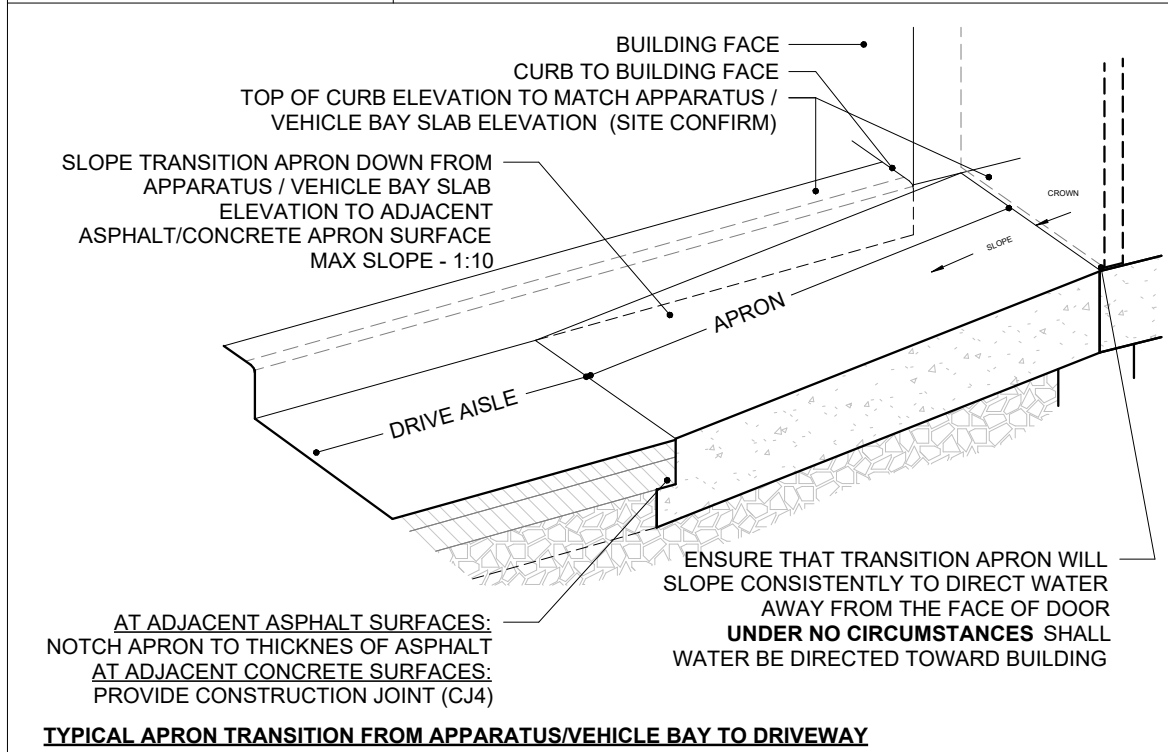
1. DETERMINE THE LOCATION OF DOOR EXTERIOR FACE AND ENSURE THAT THE INTERIOR SLAB SLOPES DOWN FROM THIS POINT TO THE EXTERIOR
2. ENSURE THAT APRON WILL CONTINUE THIS SLOPE CONSISTENTLY TO DIRECT WATER AWAY FROM THE FACE OF THE DOOR

UNDER NO CIRCUMSTANCES SHALL WATER BE DIRECTED TOWARD BUILDING

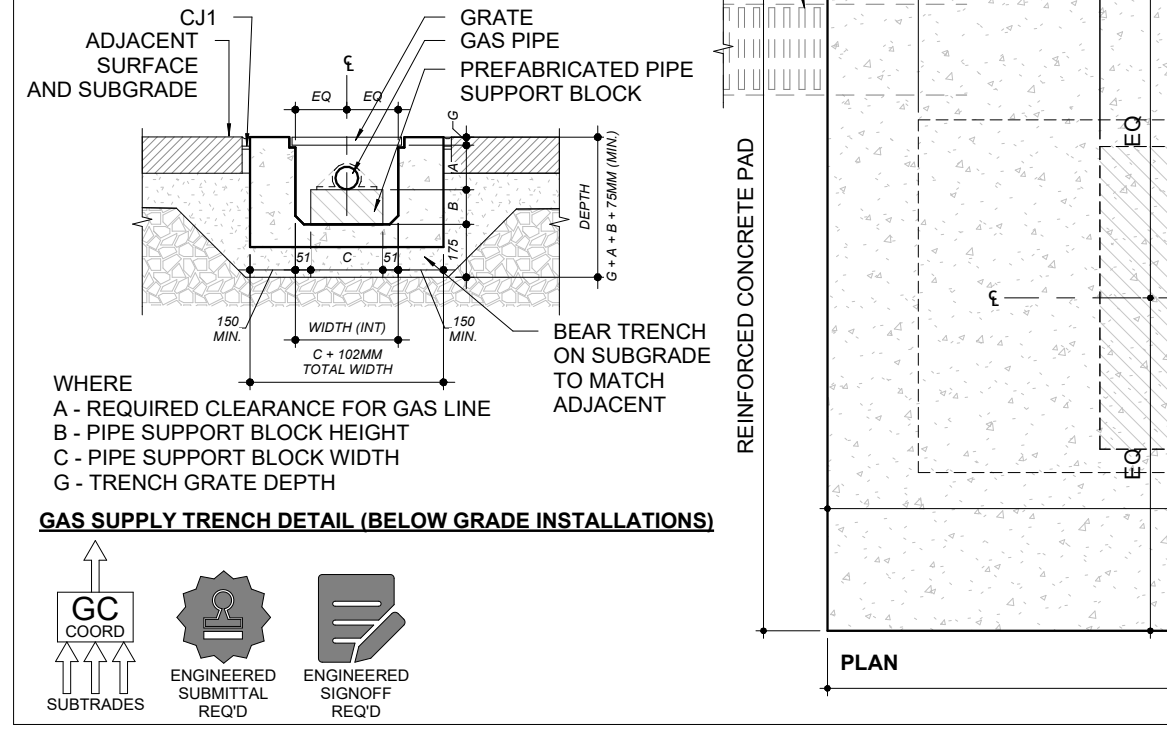
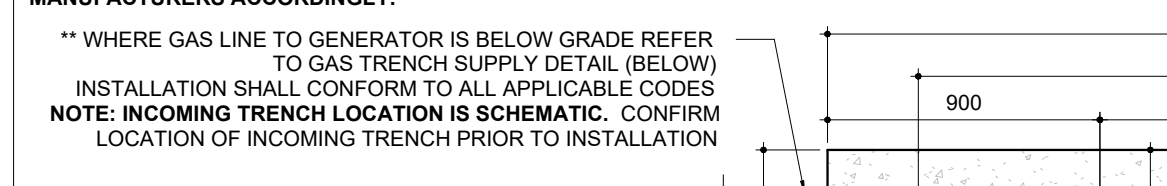
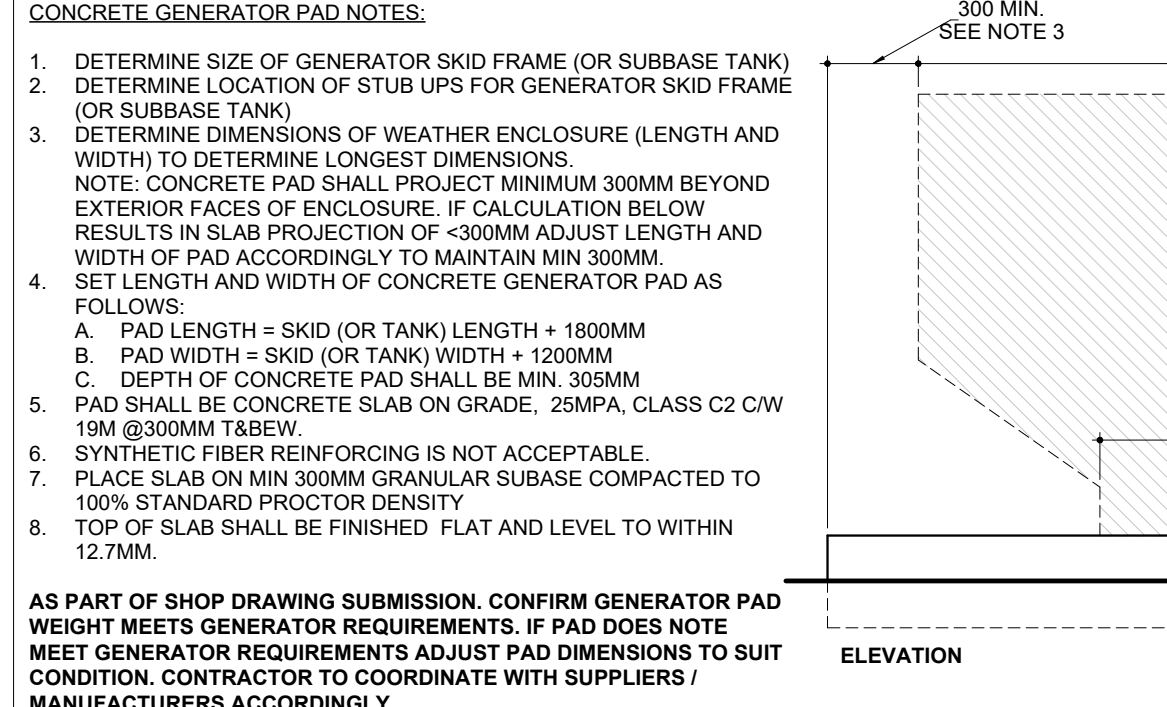
ALL REINFORCING STEEL EPOXY COATED CONCRETE SHALL BE CLASS C2, 32MPa, 5-8% AIR CONTENT WITH A MAX. SLUMP OF 80MM



3-0001.1 - CAT-1 - CONCRETE TRANSITION APRON TYPICAL (AXO)



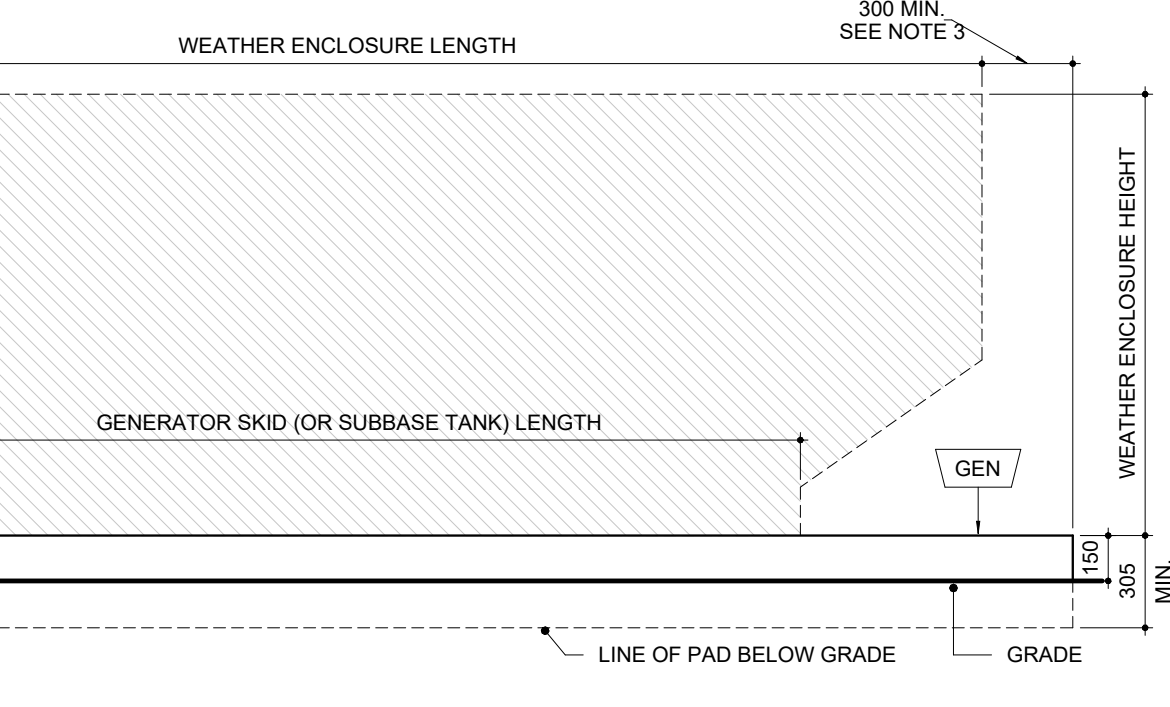
5 / A2.9 11-0007 - GD-2 - GENERATOR DETAIL (EXTERIOR)



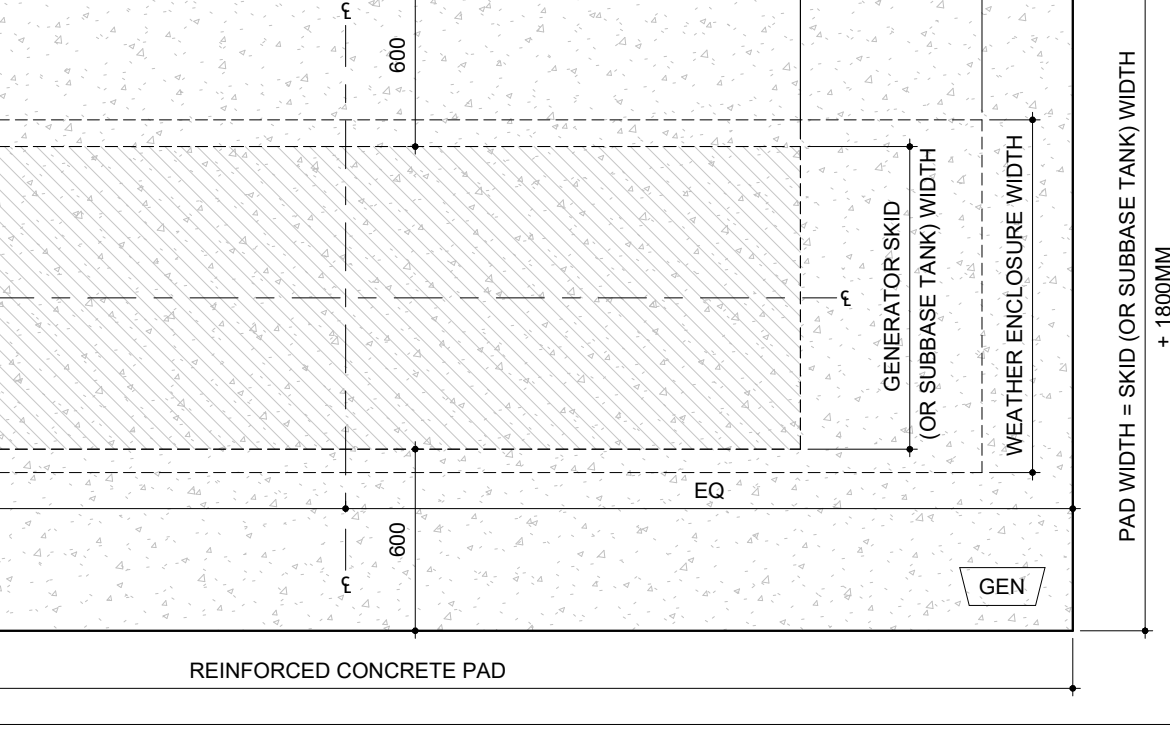
11-0007 - GD-2 - GENERATOR DETAIL (EXTERIOR)



2 / A2.9 2-0013 - CD-3 - AODA RAMP DETAILS

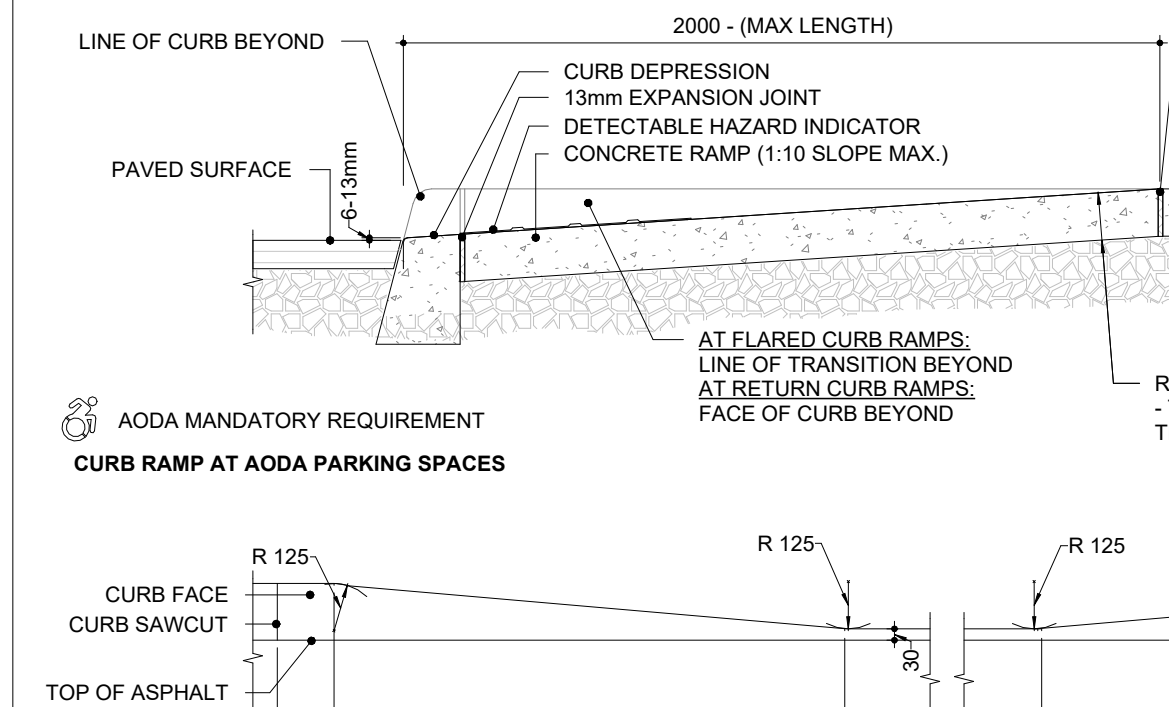


TYPICAL TRANSITION TO DEPRESSED CURB - AODA FLARED CURB RAMPS

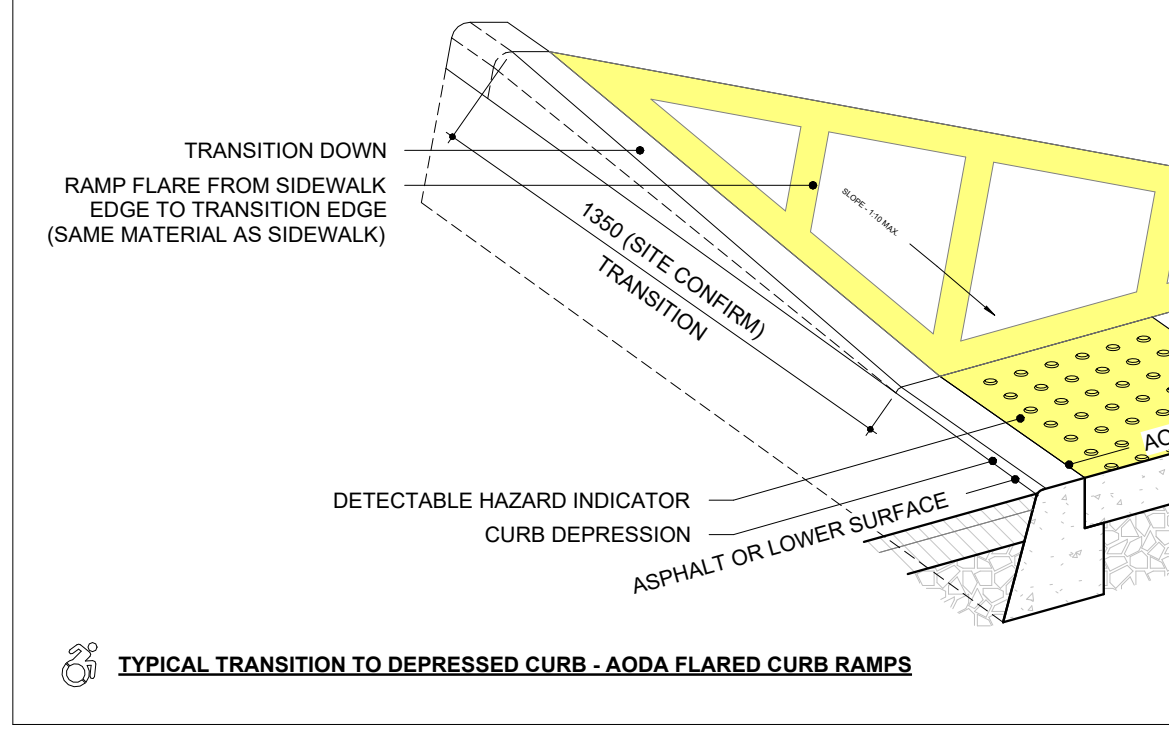


TYPICAL TRANSITION TO DEPRESSED CURB - AODA FLARED CURB RAMPS

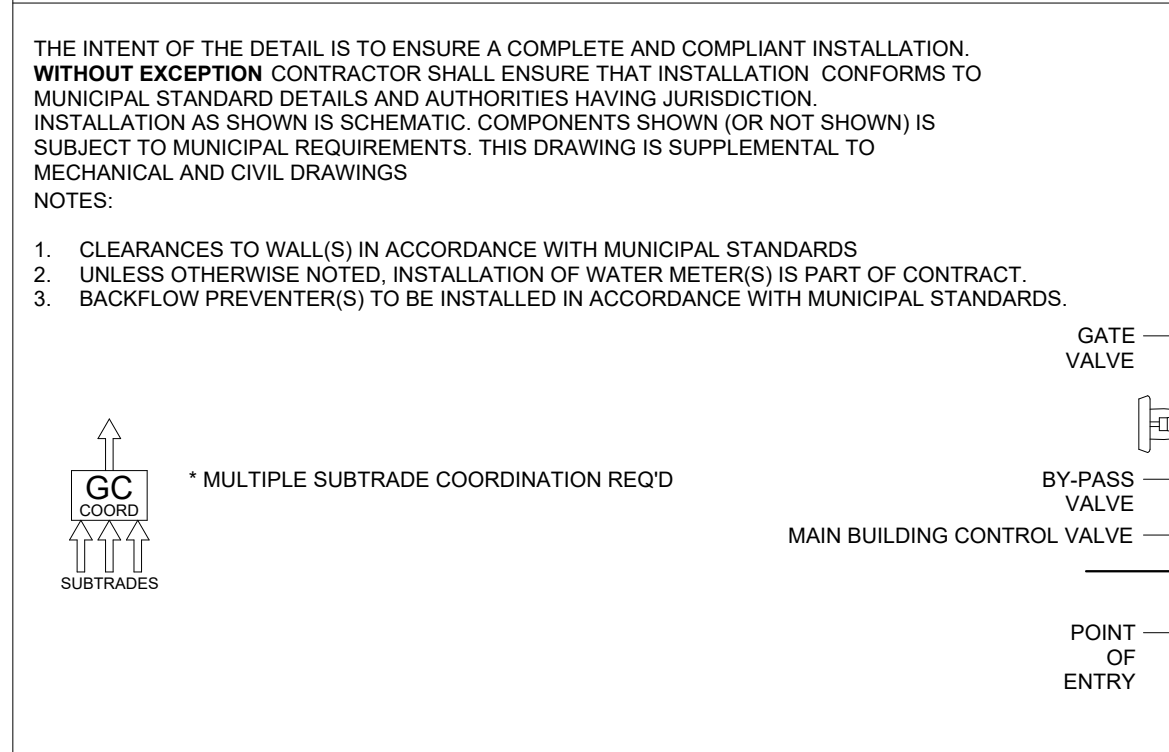
3 / A2.9 11-0003 - IWS-1 - INCOMING WATER SERVICE



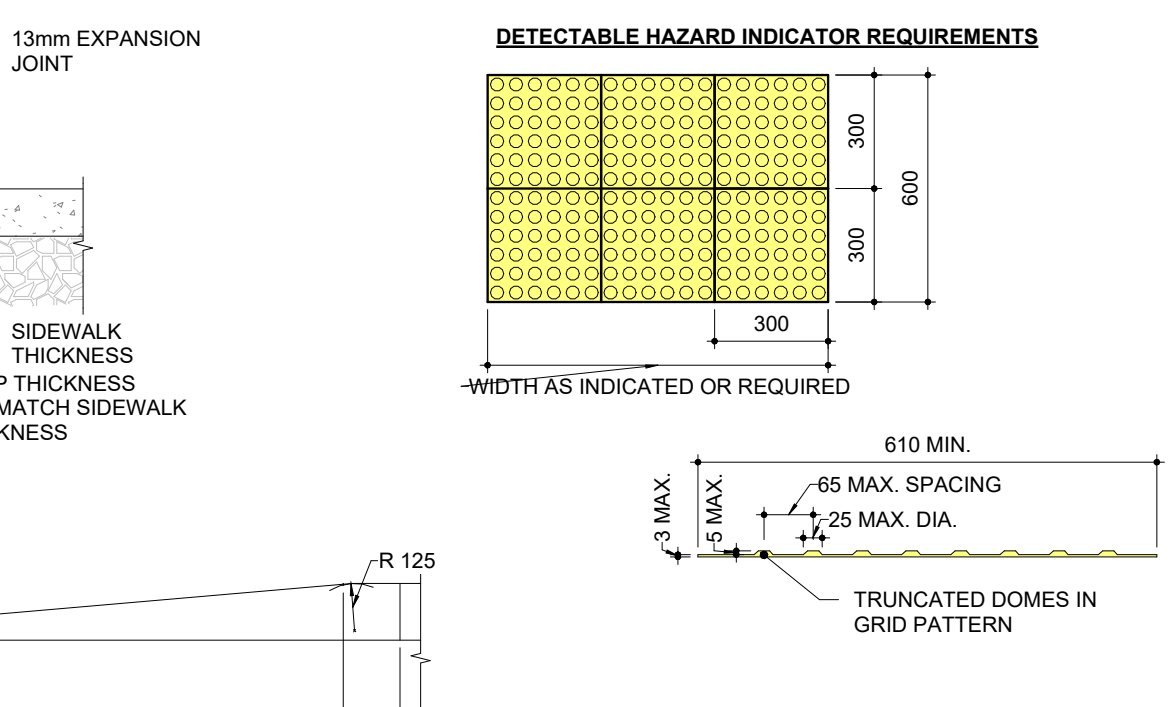
TYPICAL APRON TRANSITION FROM APPARATUS/VEHICLE BAY TO DRIVEWAY



11-0003 - IWS-1 - INCOMING WATER SERVICE



2-0013 - CD-3 - AODA RAMP DETAILS



AODA MANDATORY REQUIREMENT



AODA MANDATORY REQUIREMENT

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NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFP/Q	2023-10-19
24	ISSUED FOR CLASS A	2024-03-18
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN
FIRE STATION 7-12
9511 WESTON ROAD, VAUGHAN



CLIENT
VAUGHAN
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE
GENERAL SITE DETAILS

ORIENTATION

DATE	2021-11-24
SCALE	As indicated
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A2.9
REVISION	30

2024-09-09 4:05:36 PM
DRAWN BY: SRL
PROJECT No.: 2104
DRAWING No.: A2.9
REVISION: 30

7 / A2.10 2-0050 - VCS-1 - VEHICLE CHARGING STATION FLO

FRONT VIEW **SIDE VIEW**

VEHICLE CHARGING STATION
BASIS OF DESIGN: CoRe+ Series Level 2 EV Chargers MANUFACTURED BY FLO

NOTES:

- CONCRETE SHALL BE CLASS C2, 32MPa, 5-8% AIR CONTENT WITH A MAX SLUMP OF 80MM
- MOUNTING RODS, NUTS AND WASHERS SUPPLIED BY CHARGING STATION MANUFACTURER. 'CONSUMABLES' AS NOTED IN INSTALLATION GUIDE ARE BY INSTALLER.
- IF STATION IS INSTALLED UNDER SCOPE OF CONTRACT, CUT MOUNTING RODS TO PROVIDE MORE THAN THREE (3), LESS THAN FIVE (5) THREADS EXPOSED BEYOND FACE OF NUT

GC COORD. SUBMITTAL RECORD

5 / A2.10 5-0006 - BO-1 - TYPICAL BOLLARD DETAILS

SECTION VIEW **PLAN VIEW**

BOLLARD COVER

NOTES:

- ALL STEEL GALVANIZED
- CONCRETE SHALL BE CLASS C2, 32 MPa CONCRETE COMPLETE WITH 5-8% AIR ENTRAINMENT

GC COORD. SUBMITTAL RECORD

3 / A2.10 2-0015 - FPB-1 - FLAG POLE BASE

NOTES:

- PRIOR TO PLACEMENT** CONFIRM THAT BASE LOCATION IS BEYOND MINIMUM SETBACKS FROM OVERHEAD WIRES AS FOLLOWS:
 - A. 400MM FROM LOW VOLTAGE WIRES (I.E. BELL AND CABLE LINES)
 - B. 610MM FROM HIGH VOLTAGE WIRES (I.E. POWER LINES)
- TOP OF FOUNDATION SHALL BE TROWELED SMOOTH AND LEVEL.
- CONCRETE SHALL BE 32 MPa CONCRETE 5-8% AIR ENTRAINED CLASS-C2 EXPOSURE. CAST-IN-PLACE CONCRETE MECHANICALLY VIBRATED AND HAND TAPPED TO ENSURE BEST FINISHED RESULT.
- NOTE: POOR FINISHED RESULTS WILL BE REJECTED AND REPLACED AT NO ADDITIONAL COST TO THE CONTRACT
- PROVIDE 19MM DIA. 3000MM STEEL COPPER COATED GROUND ROD ADJACENT TO POLES AND CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR.
- FOUNDATION DEPTH IS BASED ON POLE LENGTH AND SHALL BE IN ACCORDANCE WITH PREFABRICATED CONCRETE FORM MANUFACTURERS TABLE(S) INCLUDED WITH SUBMITTAL.
 - A. **FOR A POLE LENGTH OF 12M - BASE BURIAL DEPTH SHALL BE 275M WITH A REINFORCING ROD LENGTH OF H+2.60M.** ALL OTHER POLE LENGTHS - REFER TO MANUFACTURERS TABLE
- POLE INSTALLATION IS SUBJECT TO SOIL CONDITIONS. INDEPENDENT INSPECTION AND TESTING COMPANY TO CONFIRM SUBGRADE CAPACITY PRIOR TO PLACEMENT.

GC COORD. SUBMITTAL RECORD

1 / A2.10 2-0061 - MS - MUNICIPAL SIGNAGE

NOTES:

- STANDARD FONT TYPE IS FUTURA MD BT IN PANTONE 287 C
- WHITE BACKGROUND

1. STANDARD FONT TYPE IS FUTURA MD BT IN PANTONE 287 C

2. WHITE BACKGROUND

GC COORD. SUBMITTAL RECORD

12 / A2.10 2-0095 - MS-1 MOWING/SPLASH STRIP - PEA GRAVEL

NOTES:

- 100MM - 15-25 DIA. PEA GRAVEL ON 150 COMPACTED GRANULAR 'A' BASE NON-WOVEN GEOTEXTILE (TERRAFIX 270 OR EQUIVALENT)
- EDGE RESTRAINT SYSTEM STRUCTURED - ALUMINUM HANDSCAPE EGING RESTRAINT INSTALL PER MANUFACTURERS SPECIFICATION
- PROVIDE 1L SAMPLE OF PEA GRAVEL FOR REVIEW PRIOR TO PLACEMENT

GC COORD. SUBMITTAL RECORD

6 / A2.10 2-0018 - LSB-HIGH - LIGHT STANDARD HIGH BASE DETAIL

POLE LENGTH (M)	BASE BURIAL DEPTH (M)	REINFORCING ROD LENGTH (M)
3.0	1.50	H+1.36
6.0	2.15	H+2.00
7.0	2.15	H+2.00
7.5	2.15	H+2.00
8.0	2.45	H+2.30
9.0	2.45	H+2.30
10.5	2.60	H+2.45

NOTES:

- CAST-IN-PLACE CONCRETE MECHANICALLY VIBRATED AND HAND TAPPED TO ENSURE BEST FINISHED RESULT. TOP OF BASE SHALL BE TROWELED SMOOTH AND LEVEL.
- NOTE: POOR FINISHED RESULTS WILL BE REJECTED AND REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
- CONCRETE SHALL BE 32MPa, 5-8% AIR ENTRAINED, CLASS-C2 EXPOSURE. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONCRETE FOUNDATION. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
- PROVIDE A 19mm DIAMETER 3000mm STEEL COPPER COATED GROUND ROD ADJACENT TO POLES IN ACCORDANCE WITH ESA AND ANY OTHER AUTHORITIES HAVING JURISDICTION. CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR.
- IF THERE IS A COMBINATION OF HIGH AND LOW LIGHT STANDARD BASES INDICATED, REDUCE HEIGHT OF LIGHTING POLE AT HIGH BASE INSTALLATIONS BY 350MM TO ENSURE FIXTURE HEIGHT MATCHES FIXTURE HEIGHT OF LOW LIGHT STANDARD. LIGHT POLE HEIGHT MUST BE NOTED ON SUBMITTALS.
- POLE BASE BURIAL DEPTH 'D' SHALL BE IN ACCORDANCE WITH TABLE (INSERT). POLE INSTALLATION IS SUBJECT TO SOIL CONDITIONS. INDEPENDENT INSPECTION AND TESTING COMPANY TO CONFIRM SUBGRADE CAPACITY PRIOR TO PLACEMENT.

GC COORD. SUBMITTAL RECORD

4 / A2.10 2-0010 - BF-2 - HCP SIGN FIXED POST

NOTES:

- CAST-IN-PLACE CONCRETE MECHANICALLY VIBRATED AND HAND TAPPED TO ENSURE BEST FINISHED RESULT. TOP OF BASE SHALL BE TROWELED SMOOTH AND LEVEL.
- NOTE: POOR FINISHED RESULTS WILL BE REJECTED AND REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
- CONCRETE SHALL BE 32MPa, 5-8% AIR ENTRAINED, CLASS-C2 EXPOSURE. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONCRETE FOUNDATION. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
- PROVIDE A 19mm DIAMETER 3000mm STEEL COPPER COATED GROUND ROD ADJACENT TO POLES IN ACCORDANCE WITH ESA AND ANY OTHER AUTHORITIES HAVING JURISDICTION. CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR.
- IF THERE IS A COMBINATION OF HIGH AND LOW LIGHT STANDARD BASES INDICATED, REDUCE HEIGHT OF LIGHTING POLE AT HIGH BASE INSTALLATIONS BY 350MM TO ENSURE FIXTURE HEIGHT MATCHES FIXTURE HEIGHT OF LOW LIGHT STANDARD. LIGHT POLE HEIGHT MUST BE NOTED ON SUBMITTALS.
- POLE BASE BURIAL DEPTH 'D' SHALL BE IN ACCORDANCE WITH TABLE (INSERT). POLE INSTALLATION IS SUBJECT TO SOIL CONDITIONS. INDEPENDENT INSPECTION AND TESTING COMPANY TO CONFIRM SUBGRADE CAPACITY PRIOR TO PLACEMENT.

GC COORD. SUBMITTAL RECORD

2 / A2.10 2-0030 - TF-1 - TYPICAL FENCE DETAILS

NOTES:

- ALL STEEL GALVANIZED (INCLUDING HINGES AND LATCH). PAINT ALL GALVANIZED STEEL AFTER INSTALLATION TO ENSURE UNIFORM APPEARANCE. PAINT COLOUR TO MATCH GALVANIZED STEEL.
- ENGINEERING STAMPED DRAWING REQUIRED PRIOR TO FABRICATION
- CONCRETE SHALL BE CLASS C2, 32 MPa CONCRETE COMPLETE WITH 5-8% AIR ENTRAINMENT

GC COORD. SUBMITTAL RECORD

11 / A2.10 2-0023 - TSG - TRAIL SIGNAGE GRAPHICS

NOTES:

- SCALE: 1:1
- DATE: 2021-11-24
- SCALE: 1:1
- DATE: 2021-11-24
- SCALE: 1:1
- DATE: 2021-11-24

GC COORD. SUBMITTAL RECORD

10 / A2.10 2-0022 - LS - LIMESTONE SCREENING

NOTES:

- SCREENING SHALL BE CLASS C2, 32MPa, 5-8% AIR ENTRAINMENT
- SCREENING SHALL BE CLASS C2, 32MPa, 5-8% AIR ENTRAINMENT
- SCREENING SHALL BE CLASS C2, 32MPa, 5-8% AIR ENTRAINMENT

GC COORD. SUBMITTAL RECORD

8 / A2.10 2-0020 - PG - P-GATES OFFSET PLACEMENT

NOTES:

- SCREENING SHALL BE CLASS C2, 32MPa, 5-8% AIR ENTRAINMENT
- SCREENING SHALL BE CLASS C2, 32MPa, 5-8% AIR ENTRAINMENT
- SCREENING SHALL BE CLASS C2, 32MPa, 5-8% AIR ENTRAINMENT

GC COORD. SUBMITTAL RECORD

9 / A2.10 2-0021 - TSP - TRAIL SIGN POST & INSTALLATION

NOTES:

- SCREENING SHALL BE CLASS C2, 32MPa, 5-8% AIR ENTRAINMENT
- SCREENING SHALL BE CLASS C2, 32MPa, 5-8% AIR ENTRAINMENT
- SCREENING SHALL BE CLASS C2, 32MPa, 5-8% AIR ENTRAINMENT

GC COORD. SUBMITTAL RECORD

2 / A2.10 2-0017 - TF-2 - FENCE GATE HINGE AND LATCH DETAILS

NOTES:

- GATE LATCH IS A PREFABRICATED ITEM - STAINLESS STEEL HEAVY DUTY GATE LATCH - OPERABLE FROM BOTH SIDES. AS SUPPLIED BY JAKE SALES (OR EQUIVALENT).

GC COORD. SUBMITTAL RECORD

ISSUE OR REVISION

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION	2022-08-30
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFP	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE
GENERAL SITE DETAILS

ORIENTATION

DATE: 2021-11-24

SCALE: As indicated DRAWN BY: SRL

DWG STATUS: TENDER

PROJECT NO: 2104

DRAWING NO: A2.10 REVISION: 30

2024-09-09 04:05:48 PM

NO.	ISSUED FOR	DATE
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - HT	2024-04-15
27	ADDENDUM #1	2024-05-09
30	IFC	2024-09-09



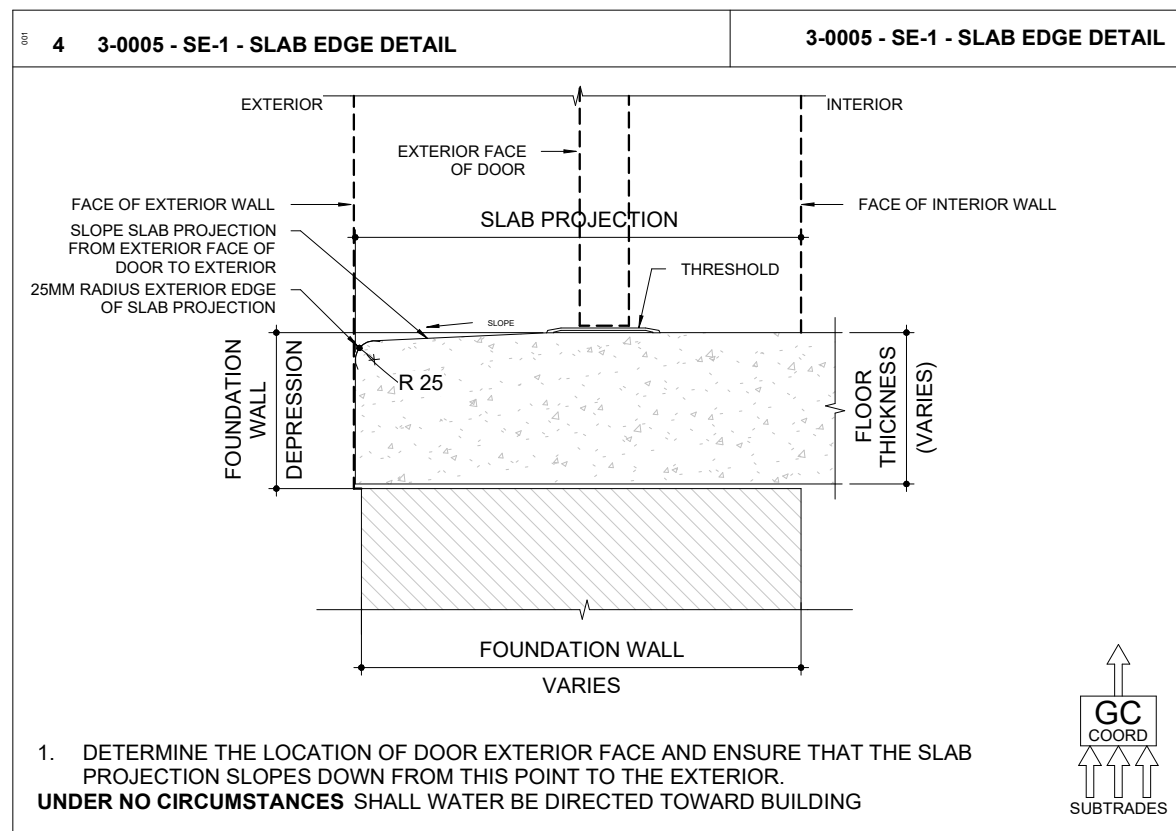
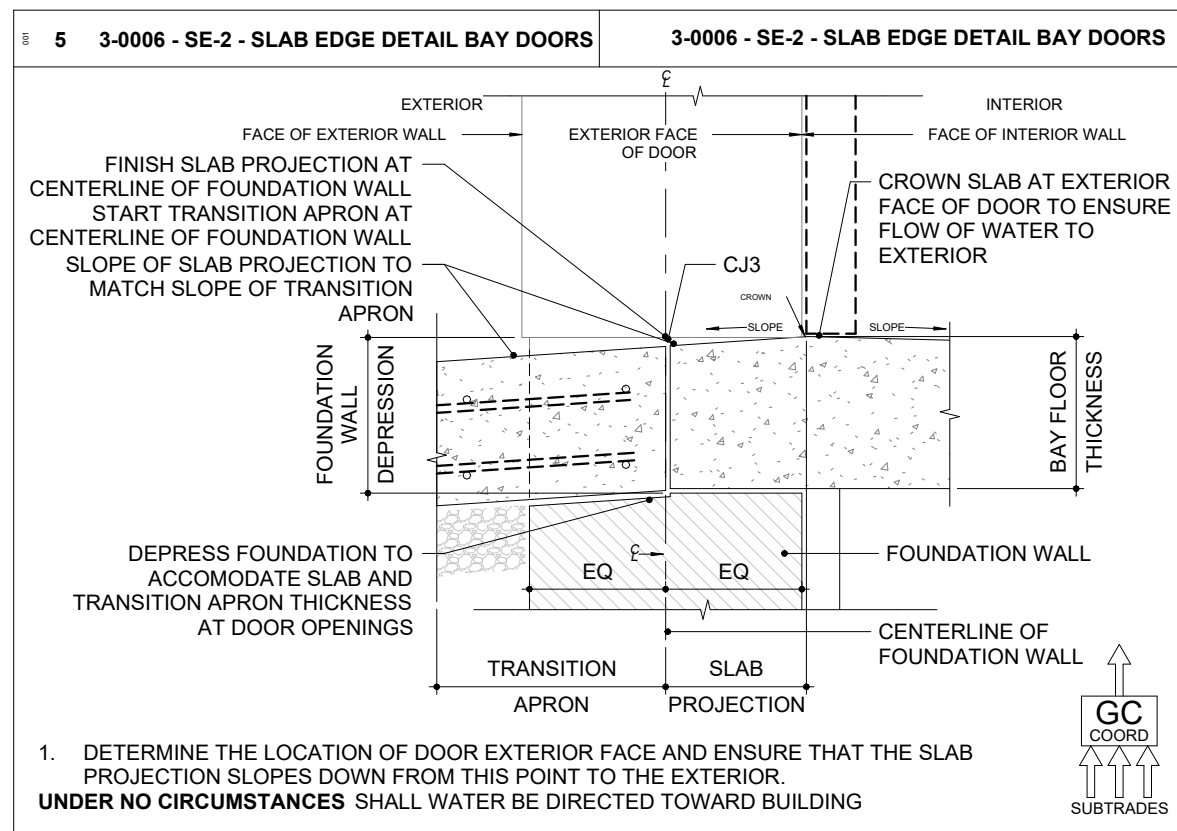
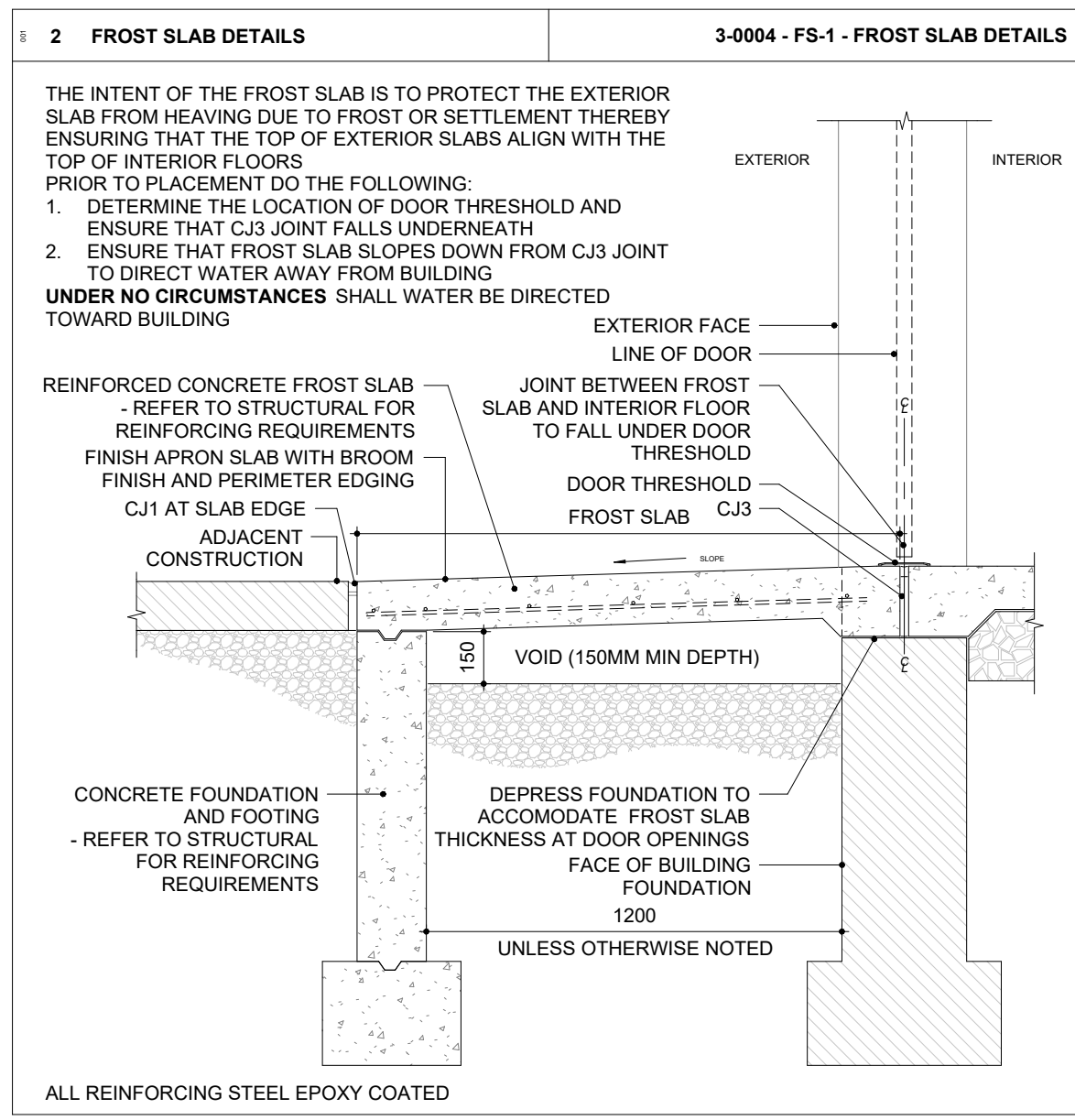
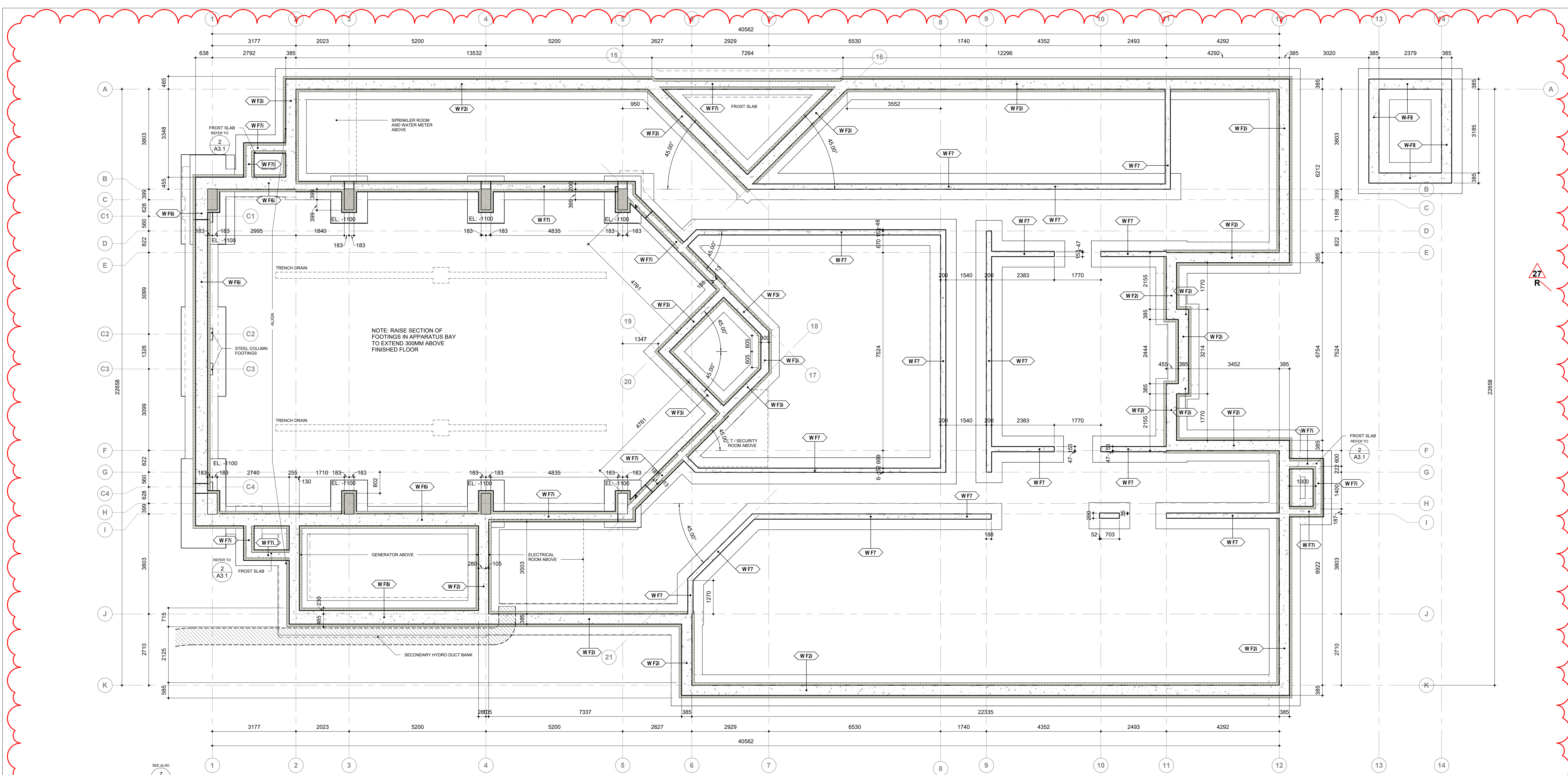
FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN



PROFESSIONAL SEAL



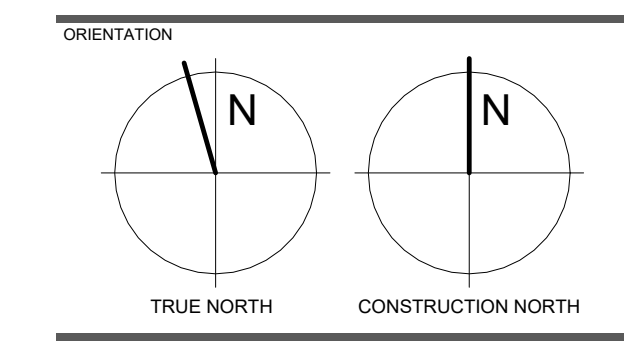
1 GENERAL NOTES - FOUNDATION

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH FOUNDATION PLANS PREPARED BY THE STRUCTURAL ENGINEER, MECHANICAL AND ELECTRICAL DRAWINGS.
2. ROUTING OF UNDERGROUND SERVICES IS SCHEMATIC. ALL UNDERGROUND SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
3. PROVIDE SLEEVES FOR ALL PENETRATIONS THROUGH FOUNDATION WALLS WHERE INDICATED AND WHERE REQUIRED (TYP.)
4. PROVIDE DROPS IN FOUNDATION WALLS WHERE INDICATED AND WHERE REQUIRED AT EXTERIOR OPENINGS. AT DOORS AND OVERHEAD DOORS, EXTEND FLOOR SLABS AT FOUNDATION DROPS TO EXTERIOR FACE OF FOUNDATION WALL. ENSURE SLAB HAS POSITIVE SLOPE TO EXTERIOR FROM EXTERIOR FACE OF DOOR OR OVERHEAD DOOR (TYP.)
5. TAKE CARE DURING PLACEMENT OF CONCRETE TO MITIGATE FACTORS THAT CONTRIBUTE TO SURFACE DEFECTS. ENSURE FACE OF FOUNDATION WALLS THAT WILL REMAIN EXPOSED (TYPICALLY 300MM MINIMUM) IS FREE OF HONEYCOMBING OR OTHER SURFACE DEFECTS.
6. ENSURE FACE OF FOUNDATION WALLS THAT ABUT AN ADJACENT CONCRETE SLAB OR SIDEWALK ARE SMOOTH TO ENSURE TIGHT PLACEMENT OF EXPANSION JOINT OR EXPANSION JOINT CAP AND CAULKED JOINT. SCRAPE OR GRIND AS REQUIRED.

A700 GENERAL NOTES - FOUNDATION PLAN

GC LOGS SUBSTRATES

FOUNDATION PLAN



DATE: 2021-11-24

SCALE: As indicated
 DRAWN BY: SRL

PROJECT No: 2104

DRAWING No: A3.1
 REVISION: 30

2024-09-09 4:05:52 PM

NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFP/Q	2023-10-19
24	ISSUED FOR CLASS A	2024-03-18
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

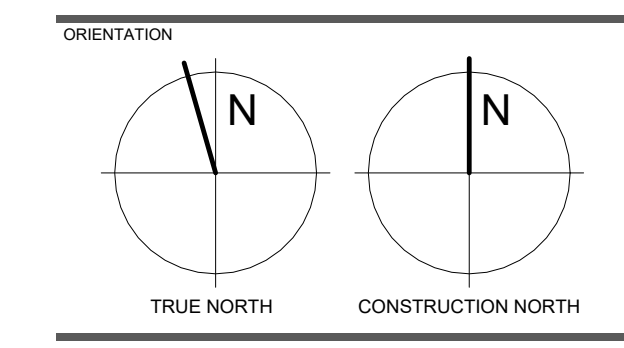


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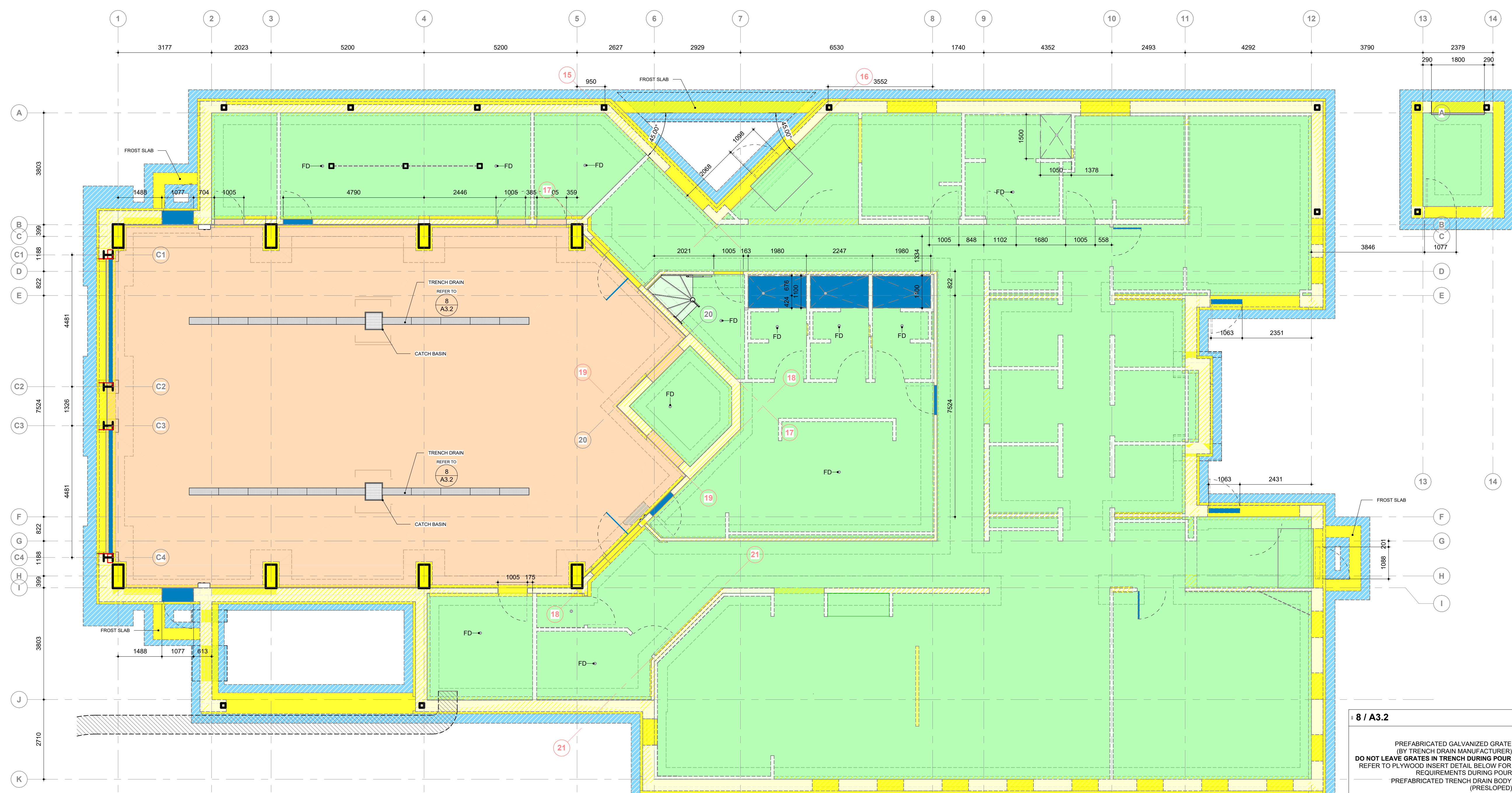
ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

LAYOUT - FOUNDATION & GROUND FLOOR

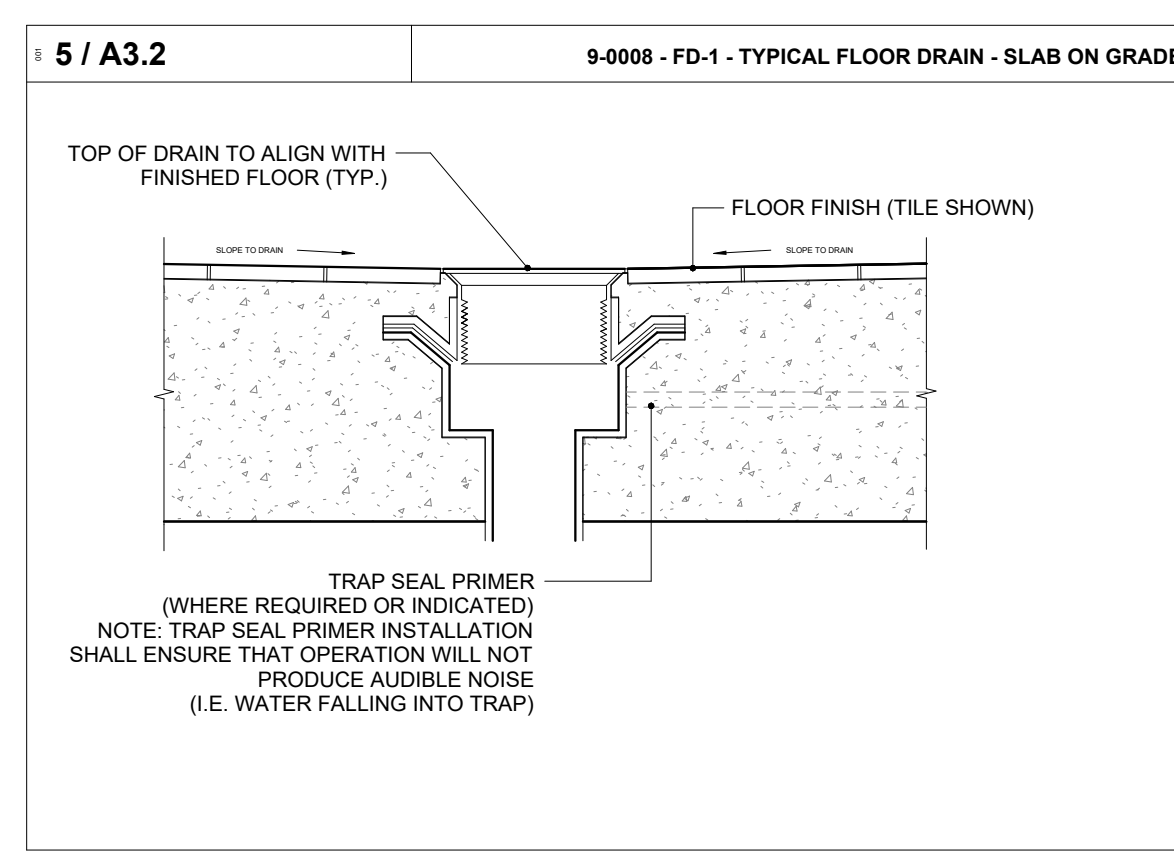
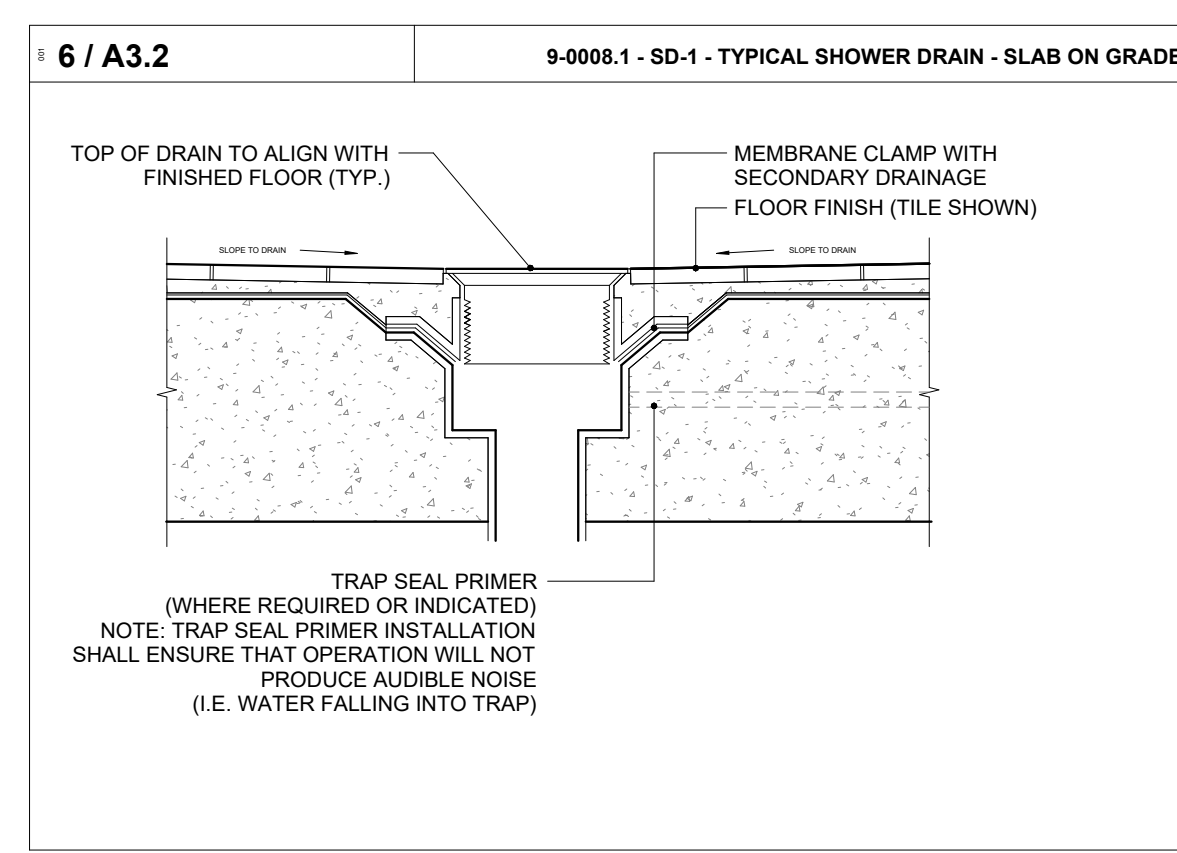
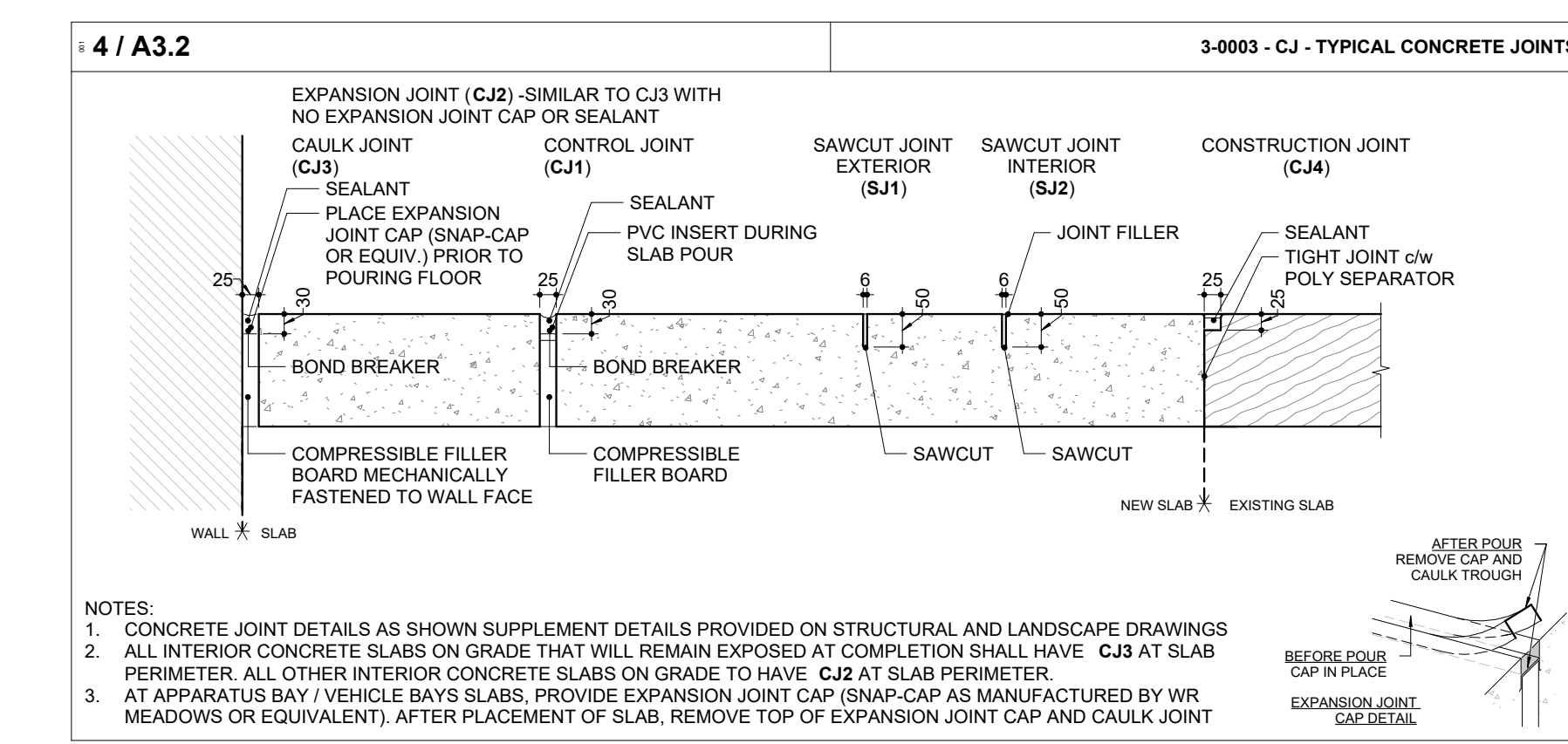


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SCALE: As indicated
DRAWN BY: SRL
PROJECT NO.: 2104
DRAWING NO.: A3.2
REVISION: 30

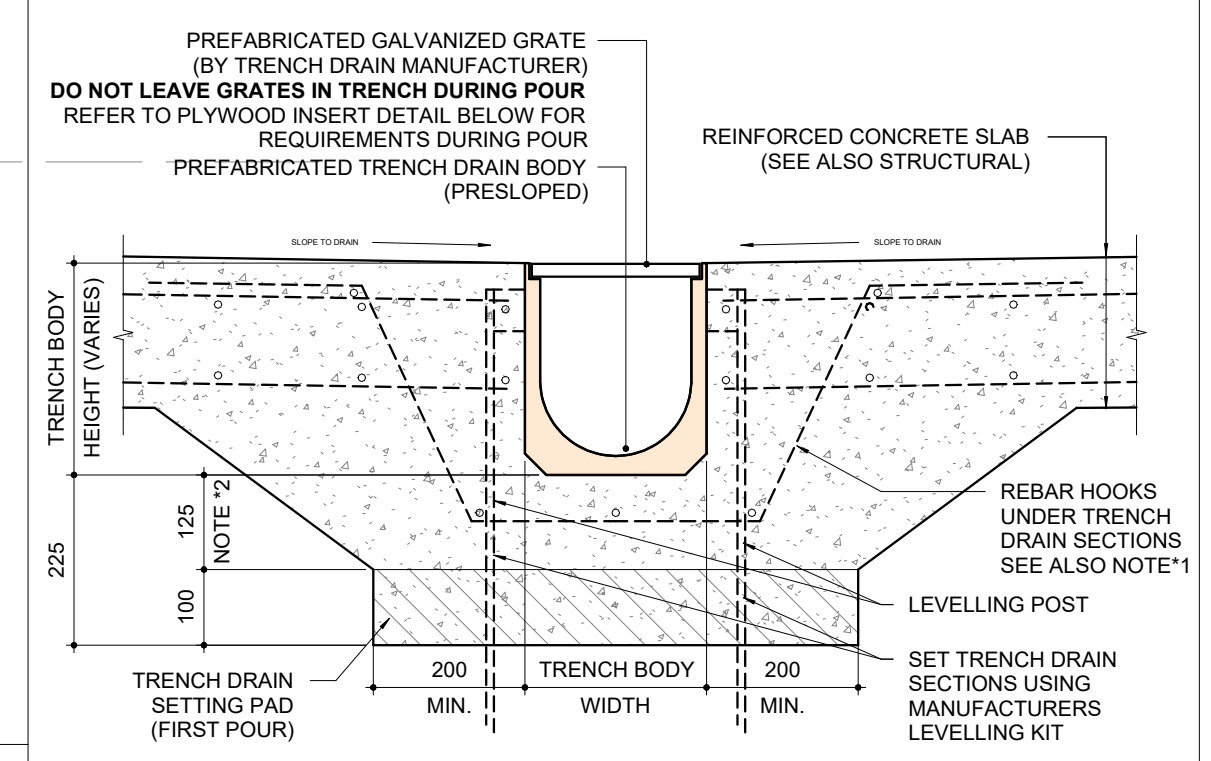


- LA SERIES LEGEND**
- IDENTIFICATION
 - SHADING INDICATES SLAB ON GRADE
 - SHADING INDICATES FLOOR SLAB ON GRADE - APPARATUS BAY
 - SHADING INDICATES FOUNDATION WALLS
 - SHADING INDICATES FOOTINGS
 - SHADING INDICATES SLAB AND FOUNDATION WALL DEPRESSIONS
 - SHADING INDICATES PROPOSED UIG SERVICE ROUTES (SCHEMATIC)

7 LAYOUT PLAN - FOUNDATION & GROUND FLOOR
1:75



8 / A3.2 10-0001 - TD-1 - TRENCH DRAIN DETAIL



DETAIL: PLYWOOD INSERT DURING SLAB PLACEMENT (REMOVE GRATES)

NOTES:

- SHOP DRAWING REQUIRED PRIOR TO FABRICATION
- SEAL JOINTS IN TRENCH DRAIN PER MANUFACTURERS RECOMMENDATION
- ENSURE CONTINUITY OF REINFORCING FROM ADJACENT SLABS THROUGH TRENCH DRAIN SETTING PAD
- REMOVE GRATES AND INSERT 19MM PLYWOOD c/w WASHER SPACERS DURING POUR. DRAIN BODY FROM DAMAGE AND OR DEFLECTION DURING SLAB PLACEMENT

NO.	ISSUE OR REVISION	DATE
7	SITE PLAN SUBMISSION 1	2022-08-30
10	SPA RE-SUBMISSION	2022-08-30
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
25	CLIENT REVIEW - 100%	2024-03-12
26	T24-253 - IFT	2024-04-15
29	ADDENDUM #4	2024-05-30
30	IFC	2024-09-08



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

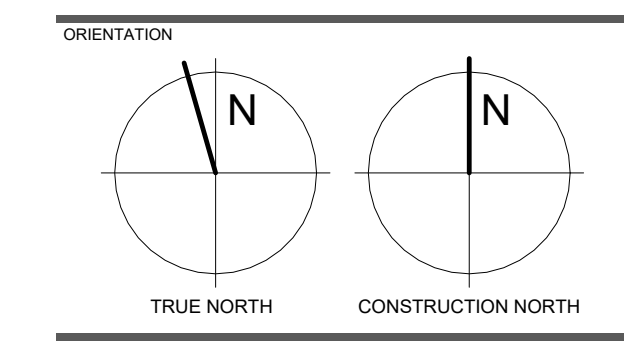
9511 WESTON ROAD, VAUGHAN



PROFESSIONAL SEAL

DWG TITLE

GROUND FLOOR PLAN - GENERAL ARRANGEMENT



DATE: 2021-11-24

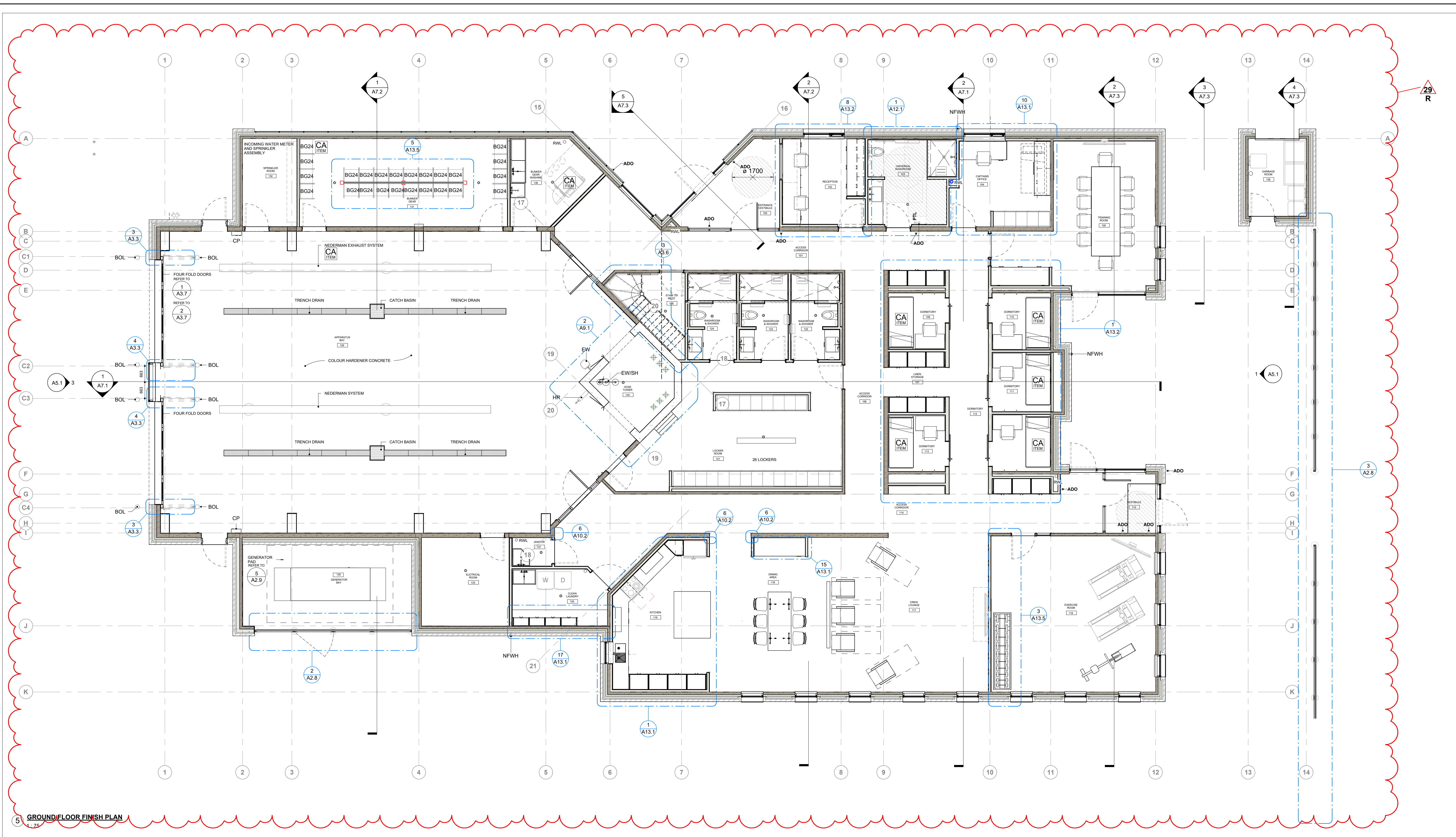
SCALE: As indicated

DWG STATUS: TENDER

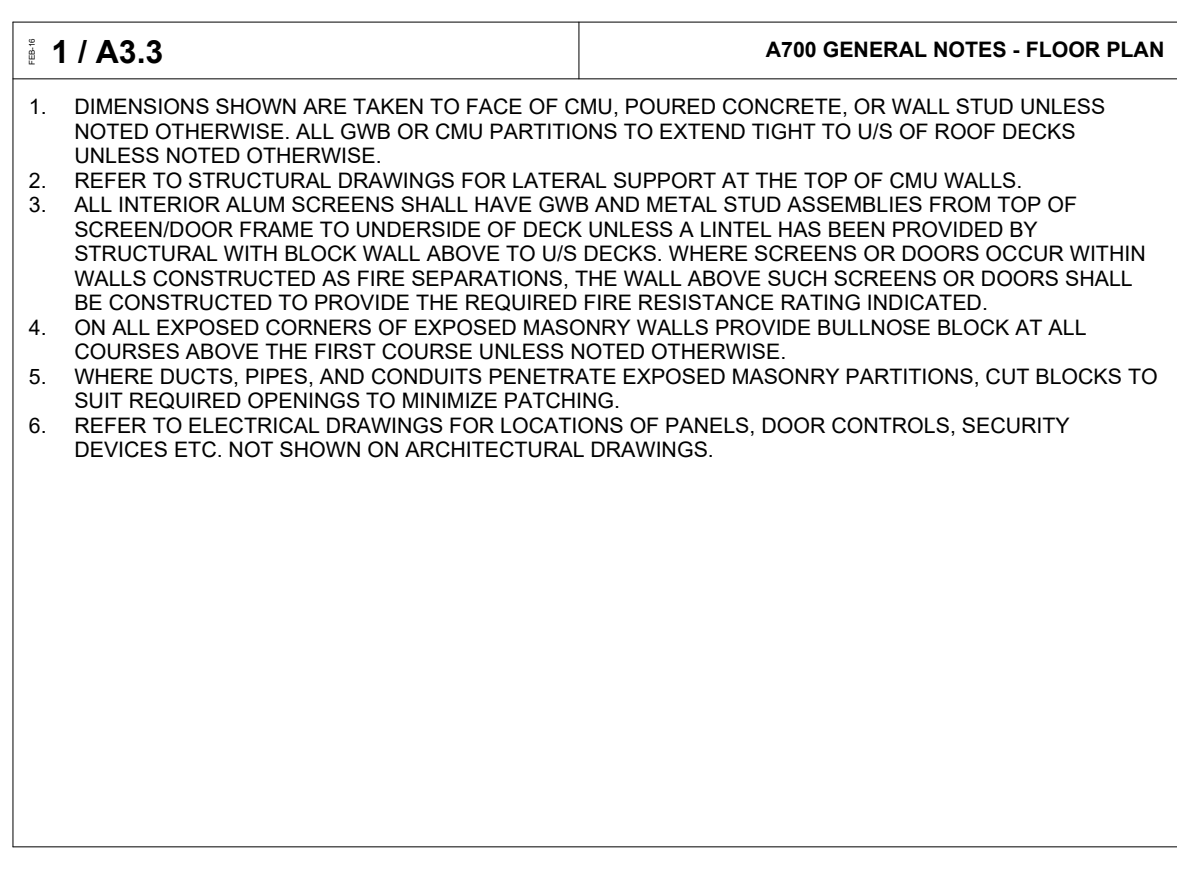
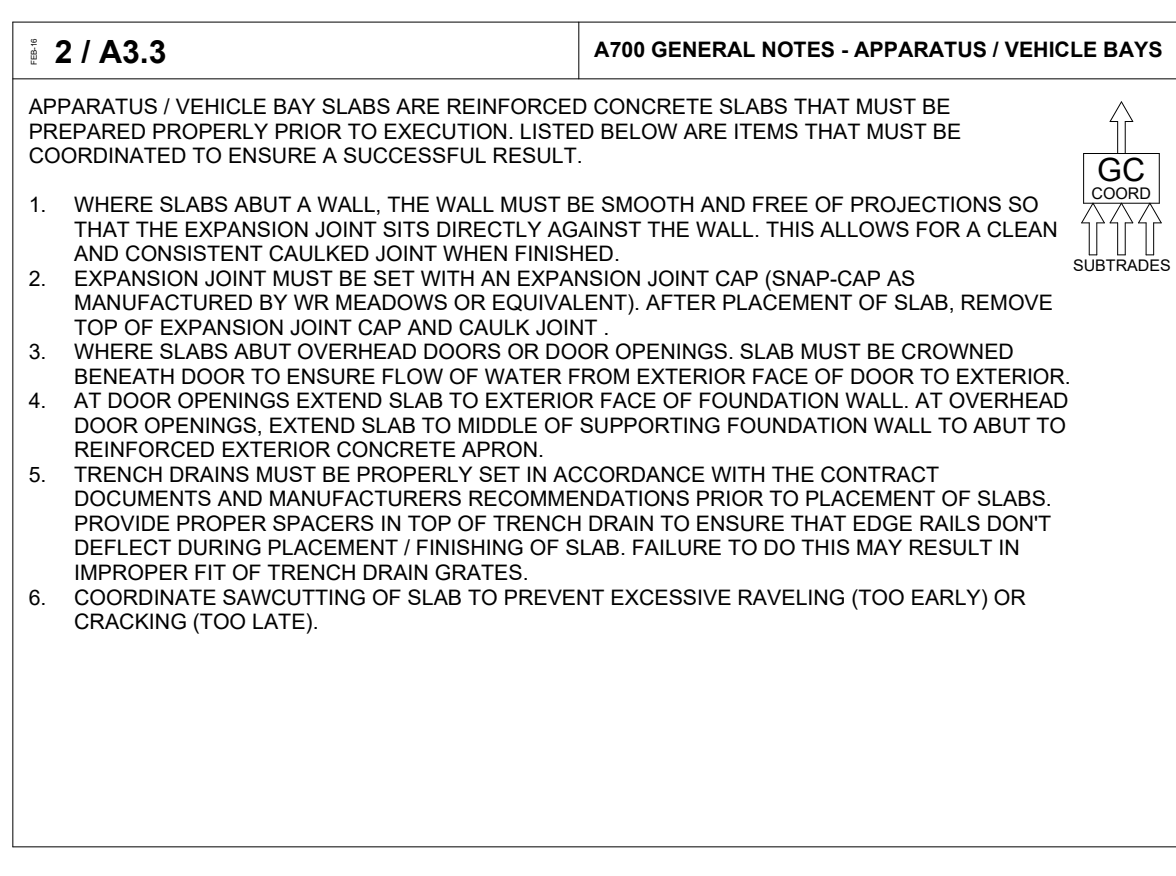
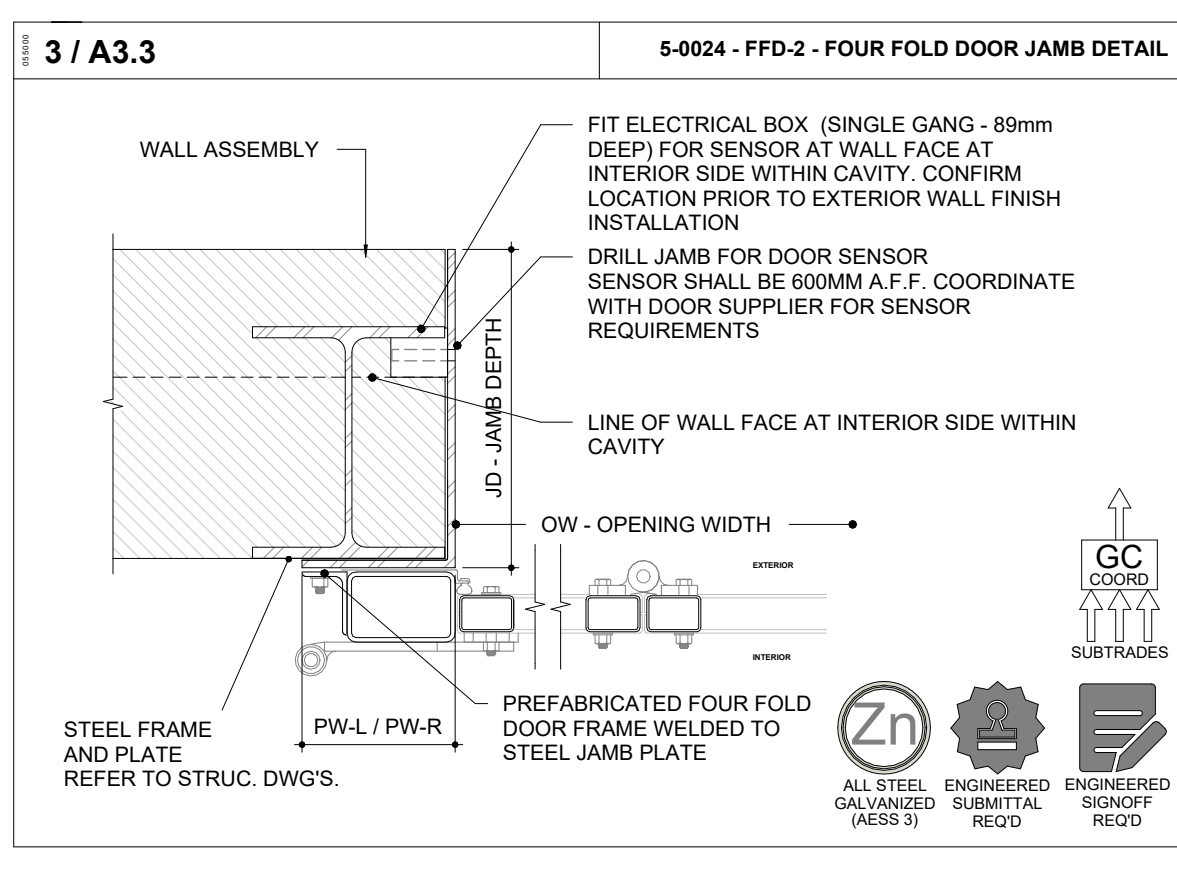
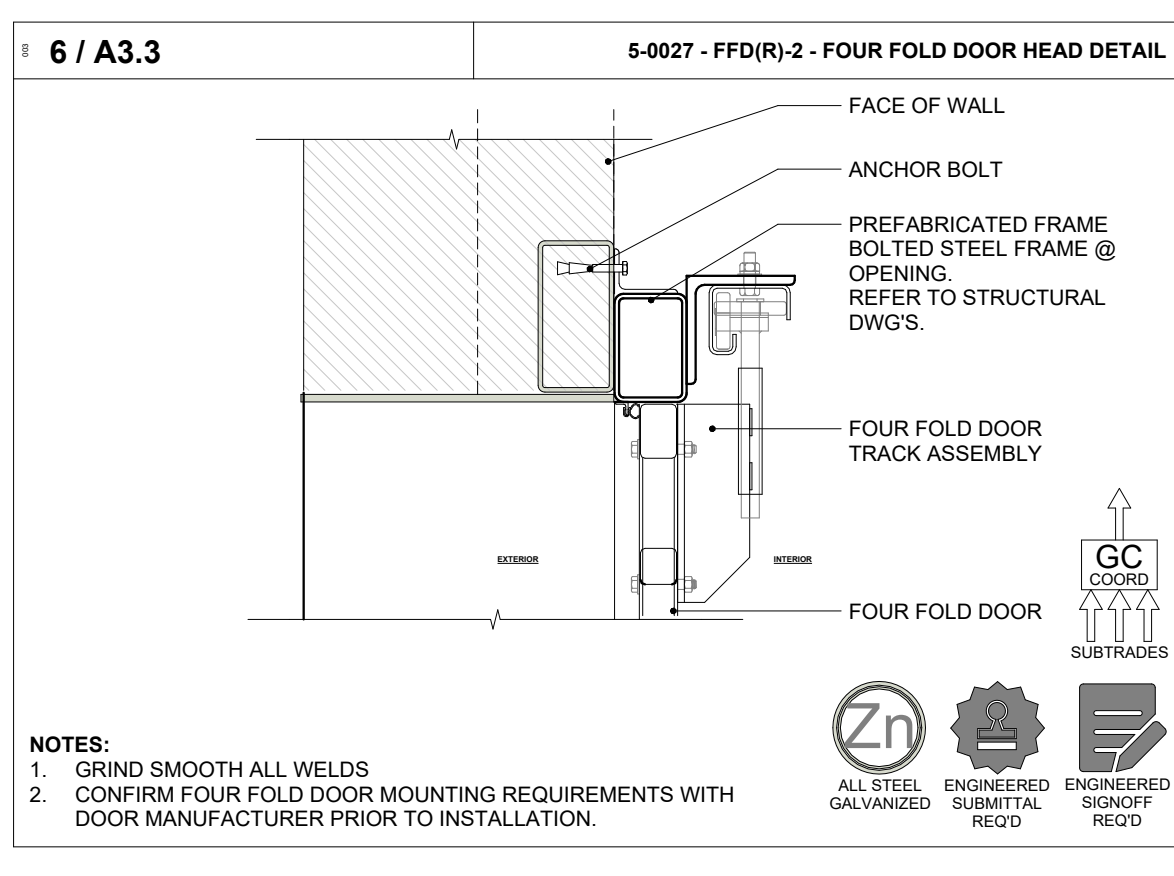
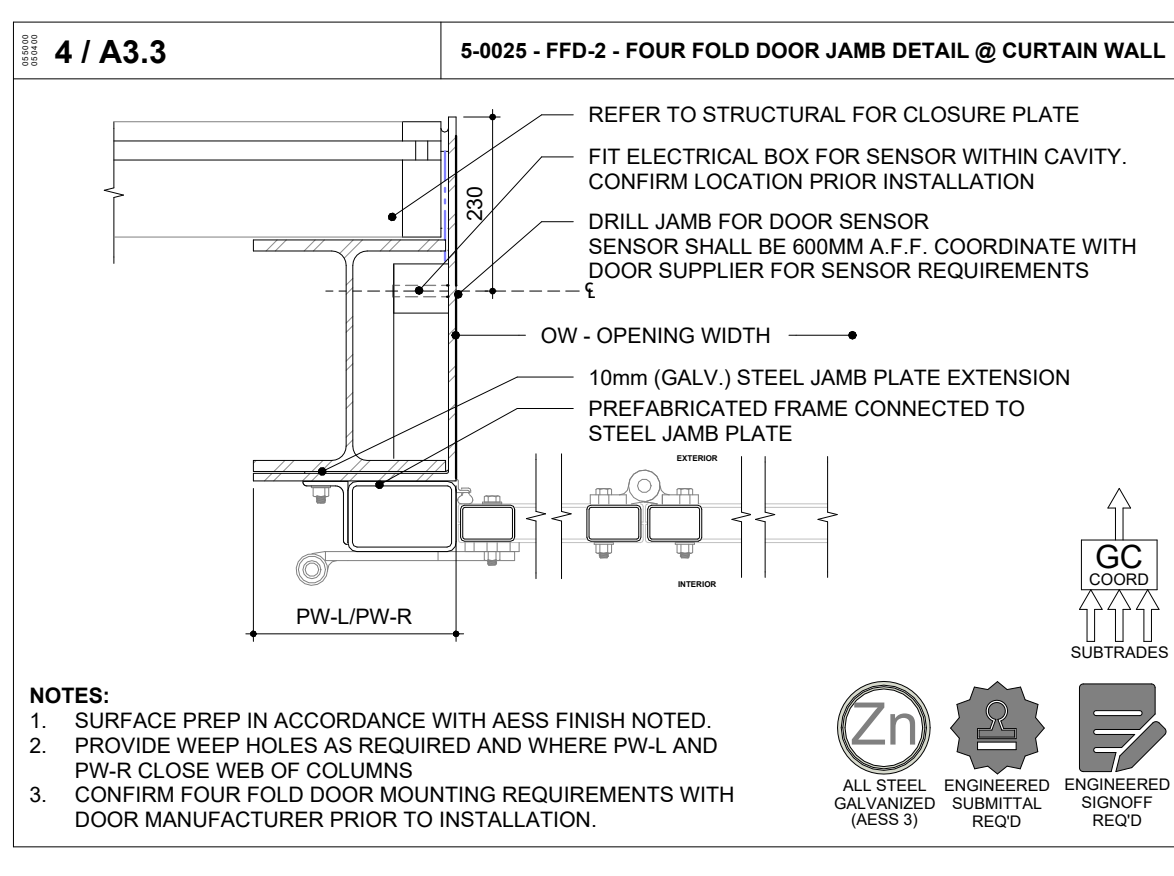
PROJECT NO: 2104

DRAWING NO: A3.3

REVISION: 30



5 GROUND FLOOR FINISH PLAN



2024-09-09 4:06:08 PM

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NO.	ISSUED FOR	DATE
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
25	CLIENT REVIEW - 100%	2024-03-12
26	T24-253 - IFC	2024-04-15
27	ADDENDUM #1	2024-05-09
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

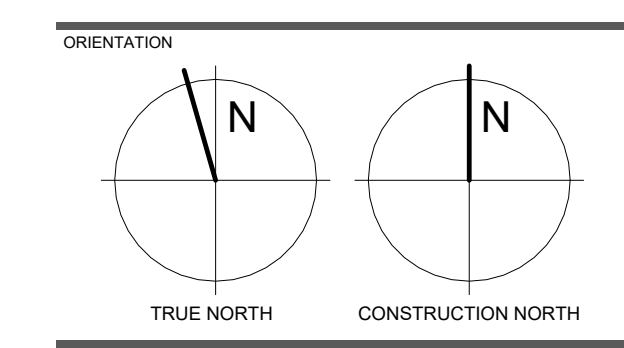
9511 WESTON ROAD, VAUGHAN



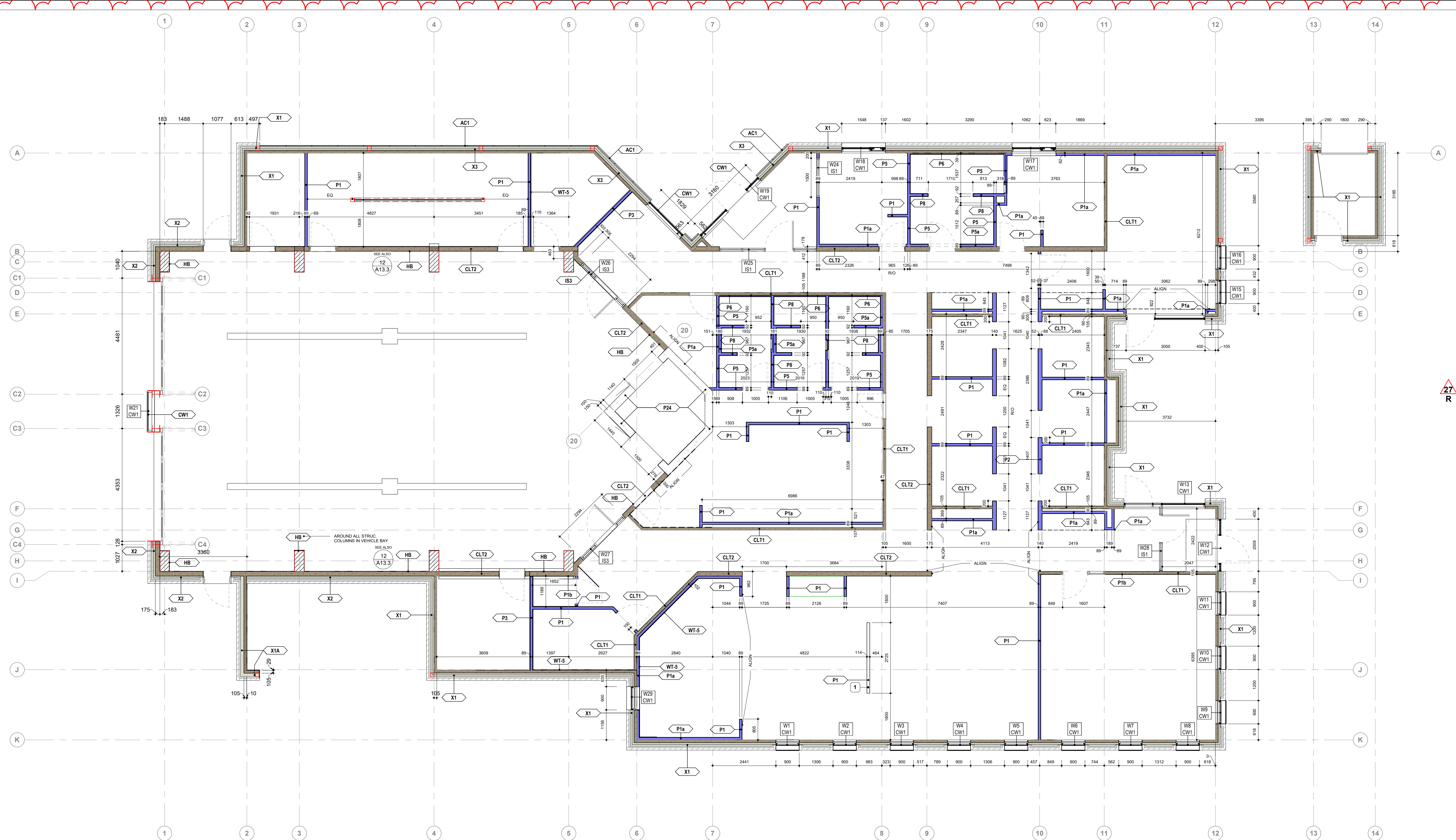
ARCHITECT
THOMASBROWNARCHITECTS
137 SPADINA AVENUE, SUITE 505 | TORONTO ONTARIO | M5T 2C3

PROFESSIONAL SEAL

GROUND FLOOR - WALL AND WINDOW LAYOUT



DATE: 2021-11-24
SCALE: As indicated
DRAWN BY: SRL
PROJECT No.: 2104
DRAWING No.: A3.4
REVISION: 30



2 GROUND FLOOR - INTERIOR PARTITION LAYOUT
1:75

FLOOR PLAN - INTERIOR PARTITION LAYOUT NOTES

NUMBER	NOTE
1	AFF TO 1100 MM C/W SOLID SURFACE SILL

LA SERIES LEGEND

IDENTIFICATION

- SHADING INDICATES FLOORS
- SHADING INDICATES FLOOR - COM SLAB
- SHADING INDICATES ROOF DECK

DIMENSIONING AND DETAILING

- SHADED WALLS ARE DIMENSIONED TO FACE OF STUD
- INDICATES SLAB OR FOUNDATION WALL DEPRESSIONS
- INDICATES ROOF DIVIDERS AND/OR FRAMED UPSTANDS WHERE ROOF DECK ABUTS VERTICAL WALL

1 GENERAL NOTES - LA SERIES

- LA SERIES DRAWINGS HAVE BEEN FILTERED OR SIMPLIFIED TO DEMONSTRATE A PARTICULAR DETAIL OR RELATIONSHIP. THEY ARE NOT INTENDED TO SHOW THE COMPLETE SCOPE OF WORK. IN NO WAY WILL THESE DRAWINGS BE USED AS THE BASIS TO CLAIM A REDUCTION IN PROJECT SCOPE.
- LA SERIES DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL CONTRACT DOCUMENTS TO DETERMINE THE FULL SCOPE OF WORK.
- IN PREPARATION OF SUBMITTALS, DIMENSIONS SHALL BE TIED TO GRIDLINE REFERENCES TO FACILITATE REVIEW.

A700 GENERAL NOTES - LA SERIES

2024-09-09 4:06:12 PM

NO.	ISSUE OR REVISION	DATE
14	ISSUED FOR	
17	GEOTHERMAL ROUTE TO MEZZ	2023-03-22
18	SPA - REVISION	2023-08-30
19	ISSUED FOR PERMIT	2023-09-15
24	ISSUED FOR RFP Q	2023-10-19
25	ISSUED FOR CLASS A	2024-02-16
26	CLIENT REVIEW - 100%	2024-03-12
27	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

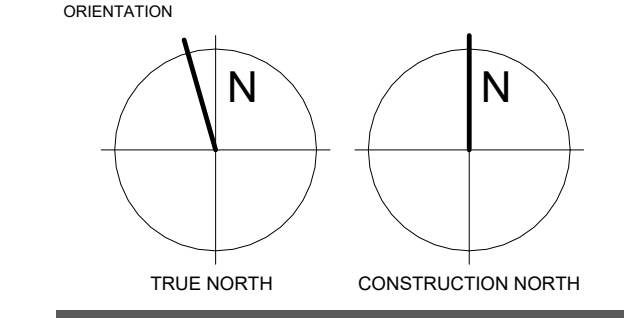


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PROFESSIONAL SEAL

MEZZANINE PLAN - GENERAL ARRANGEMENT, WALL AND WINDOW LAYOUT



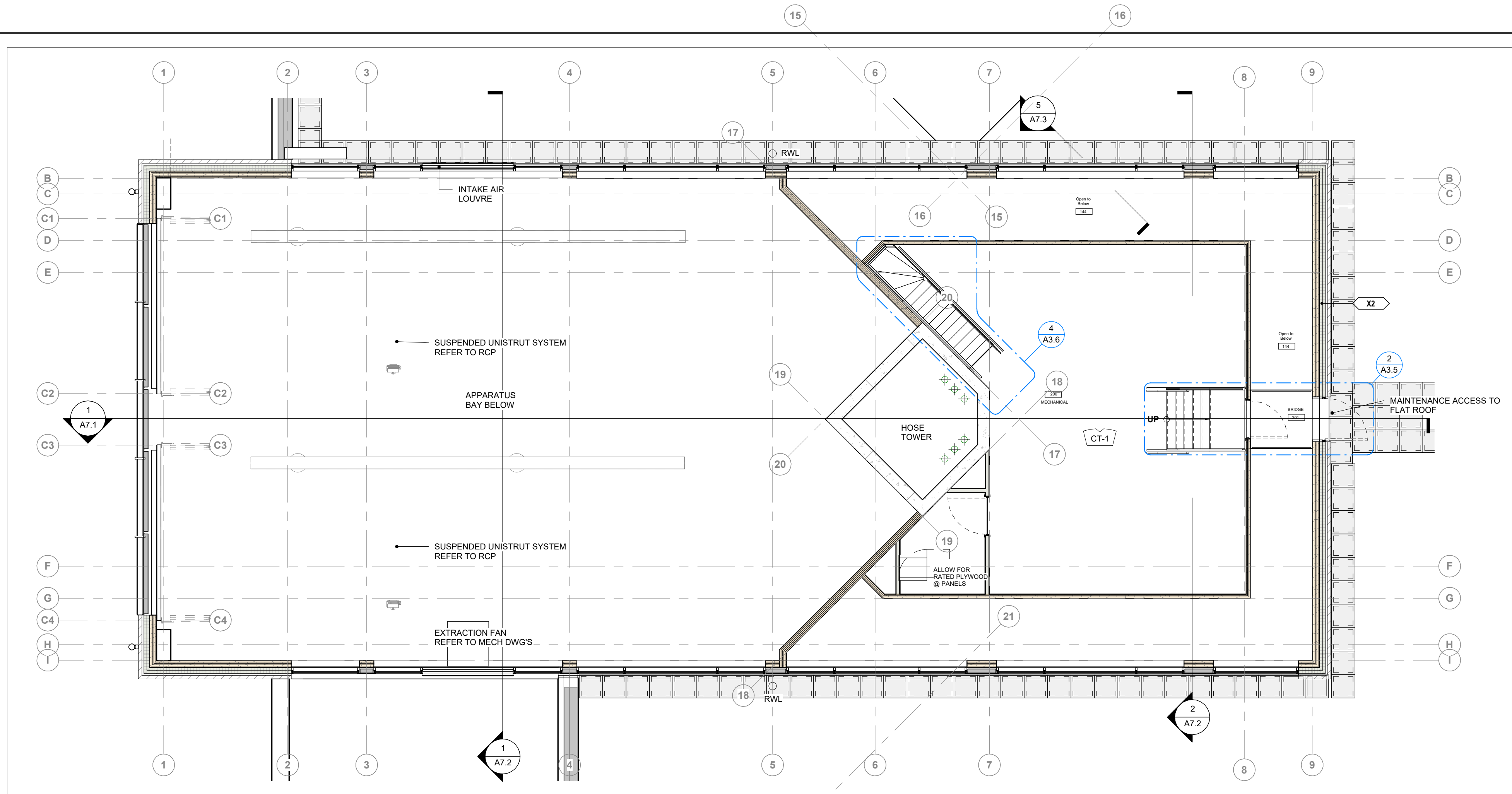
DATE: 2021-11-24

SCALE: As indicated DRAWN BY: SRL

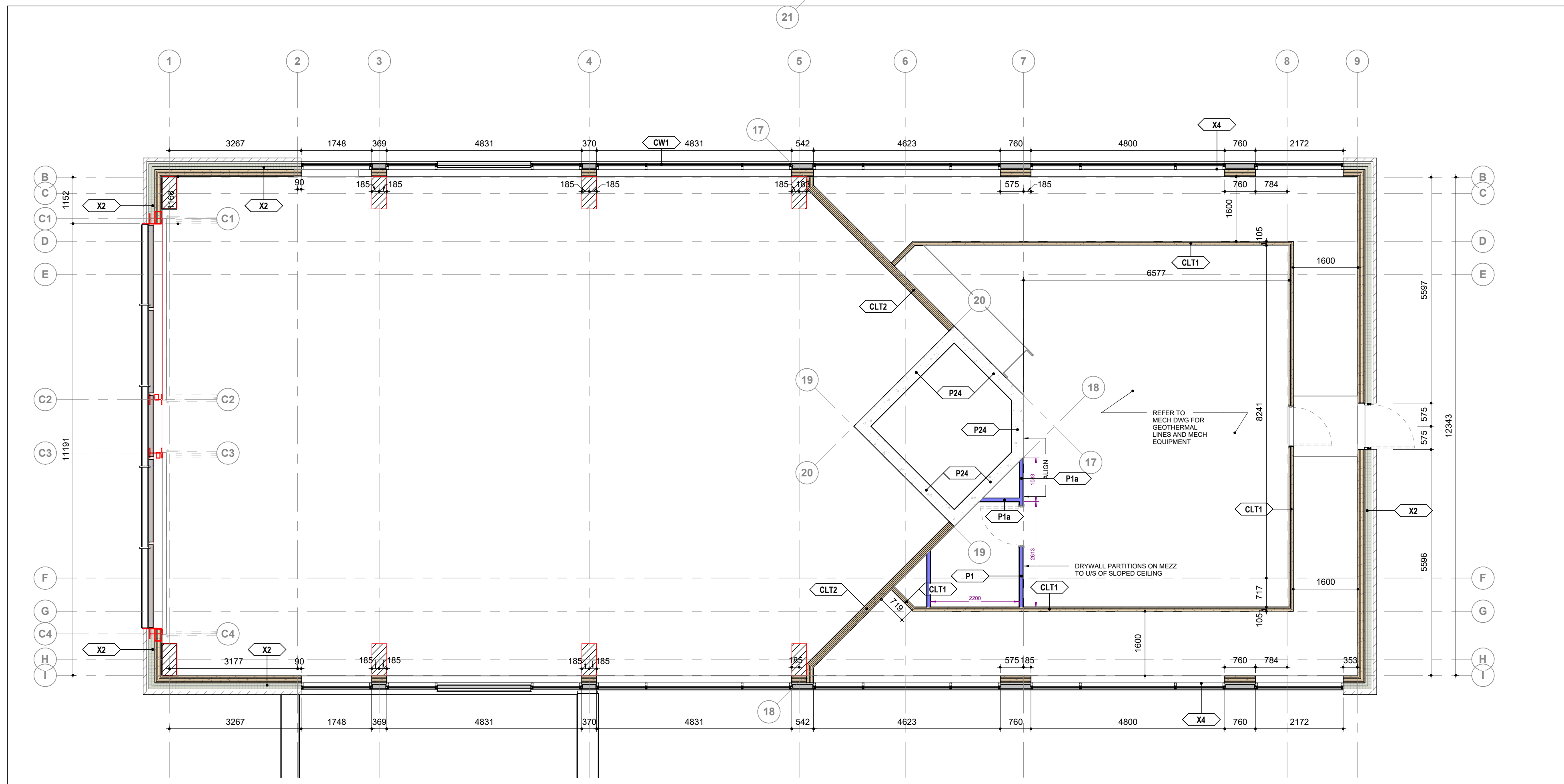
DWG STATUS: TENDER

PROJECT No: 2104

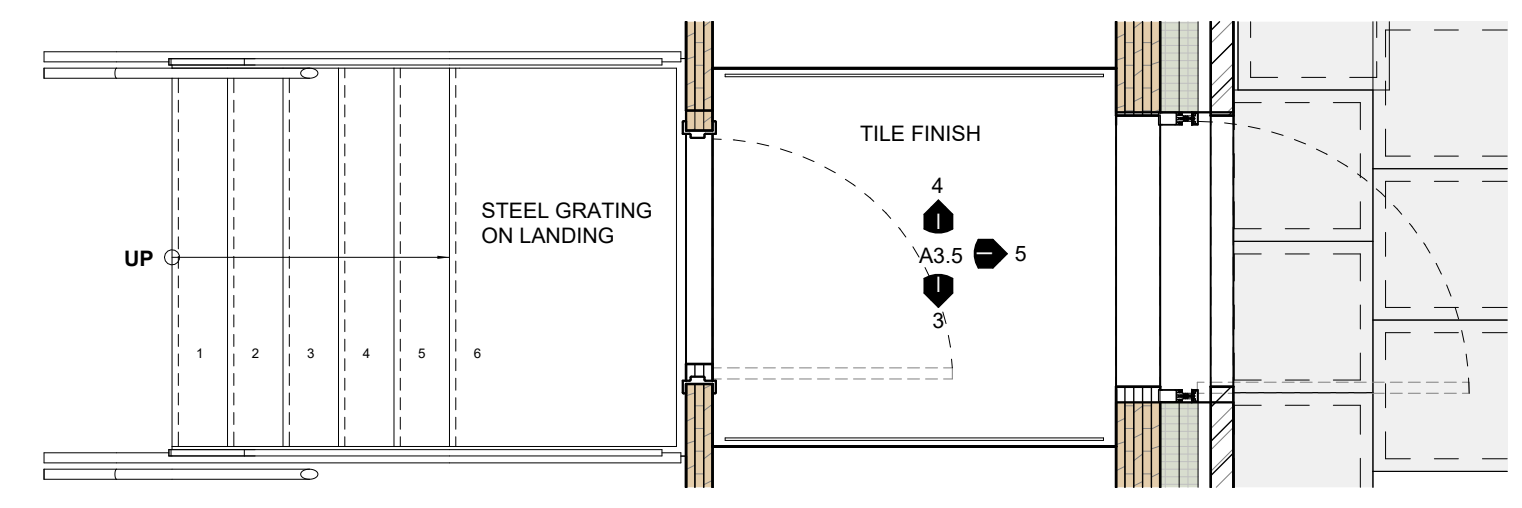
DRAWING No: **A3.5** REVISION: 30



1 MEZZANINE PLAN - GENERAL ARRANGEMENT
1:75

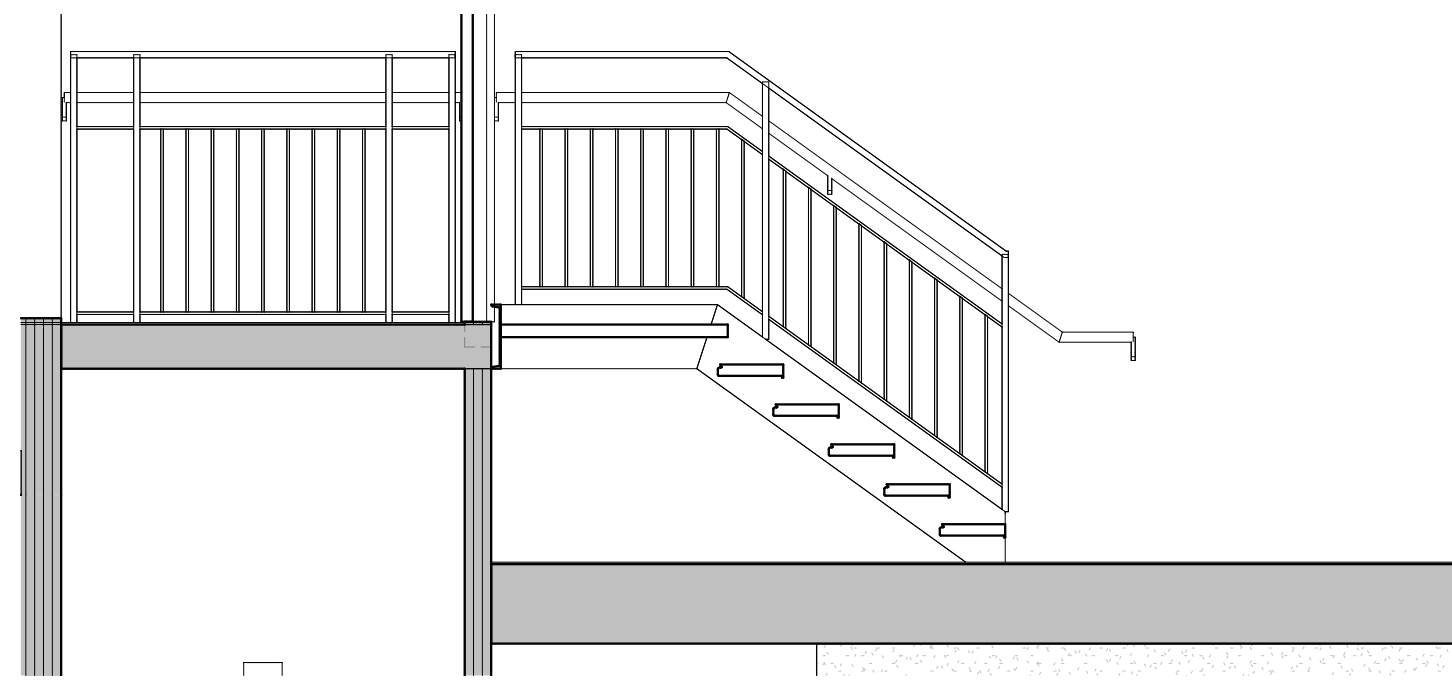


9 MEZZANINE PLAN - WALL AND WINDOW LAYOUT
1:75

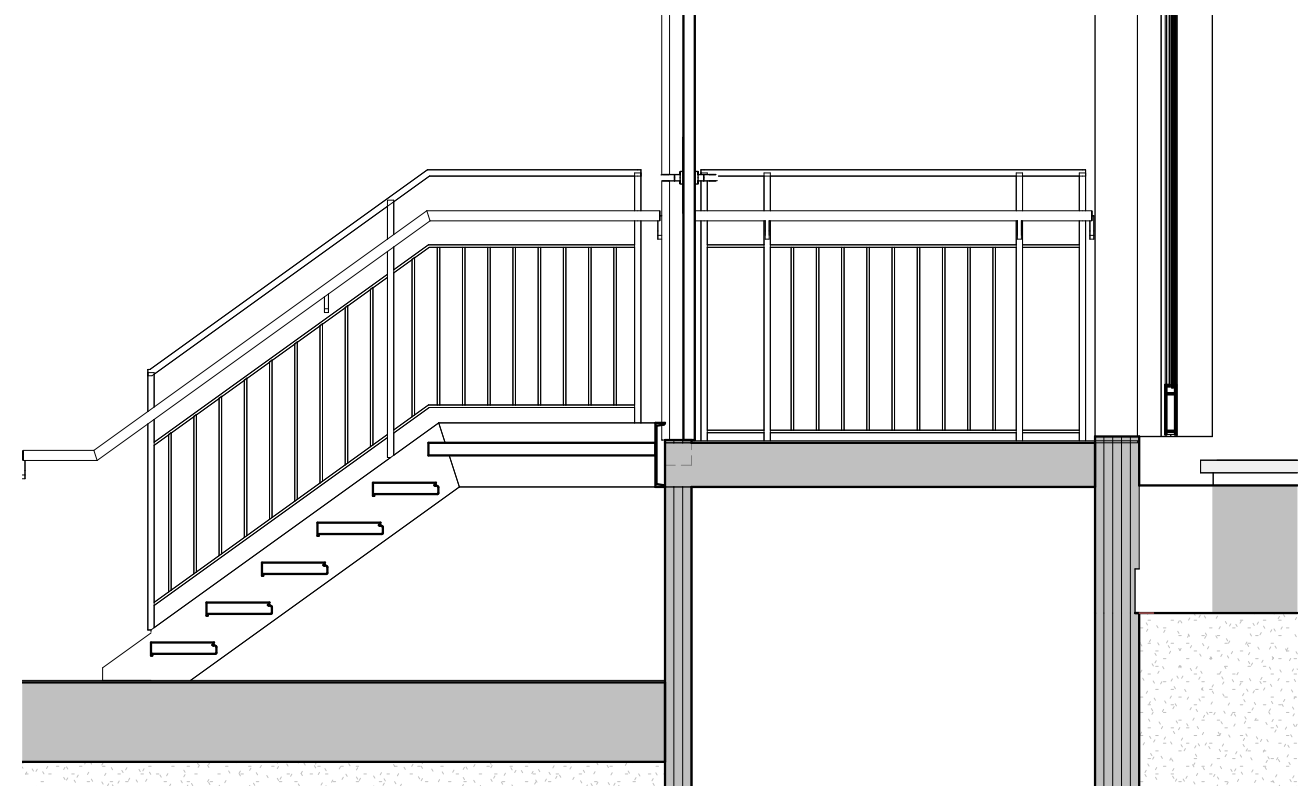


2 - Floor Plans - FROM - 1/ A3.5
1:30

STAIR	Notes
	Hose Tower Stair
	RUN TYPE - Steel Grate Tread
	NUMBER OF RISERS - 6
	RISER HEIGHT - 158
	TREAD DEPTH - 220 - c/w 25mm nosing
	LEFT STRINGER - ST CHANNEL - MC250
	RIGHT STRINGER - ST CHANNEL - MC250
	MIDDLE SUPPORT - <None>
	STAIR WIDTH - REFER TO PLAN
	STAIR TREAD FINISH - REFER TO FLOOR FINISH PLAN

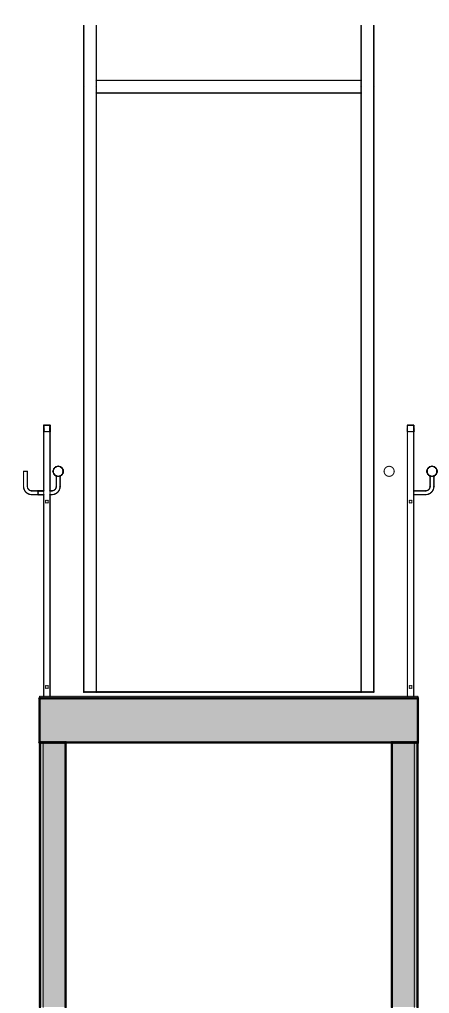


3 - Interior Elevation - FROM - 2/ A3.5
1:30



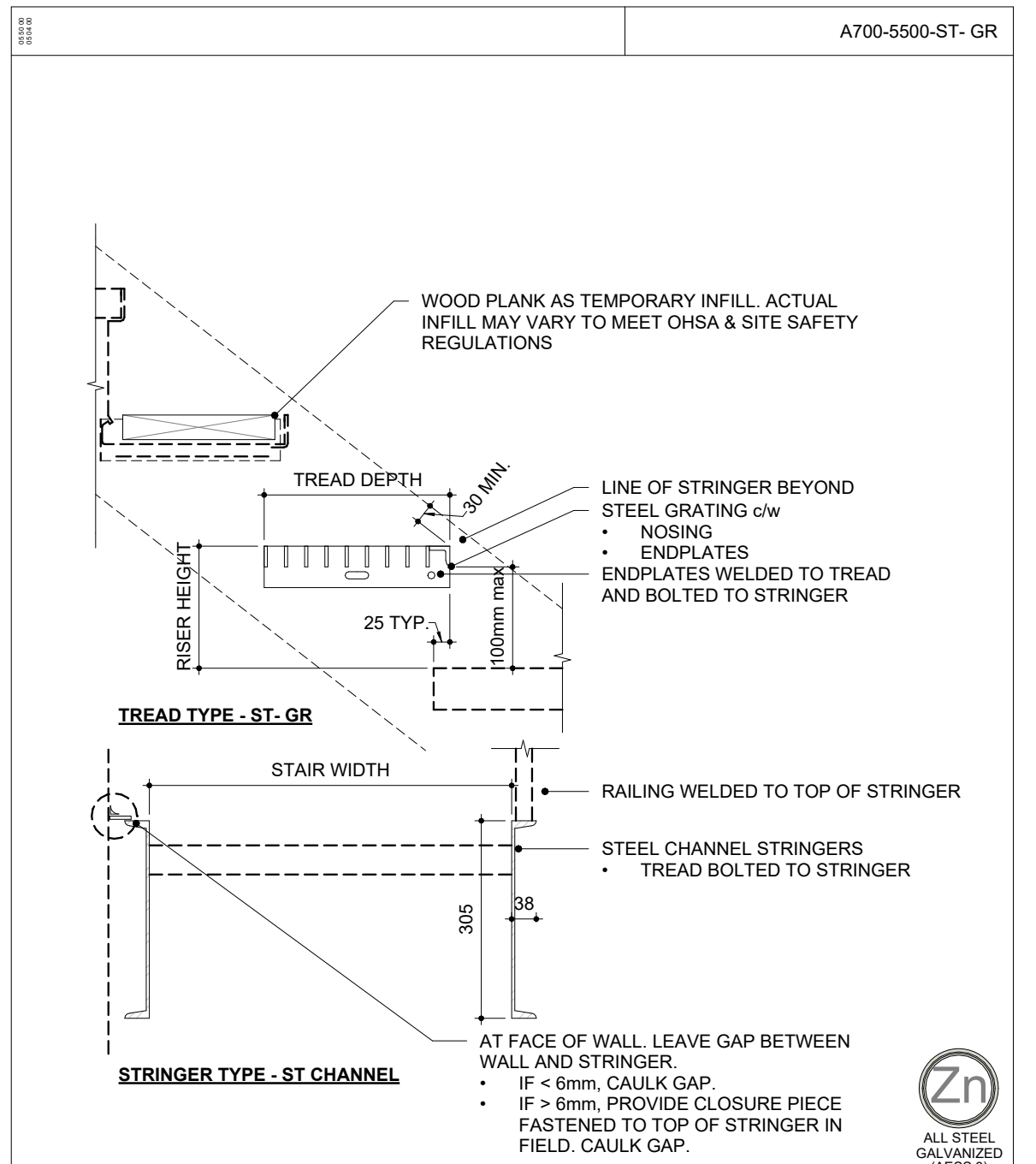
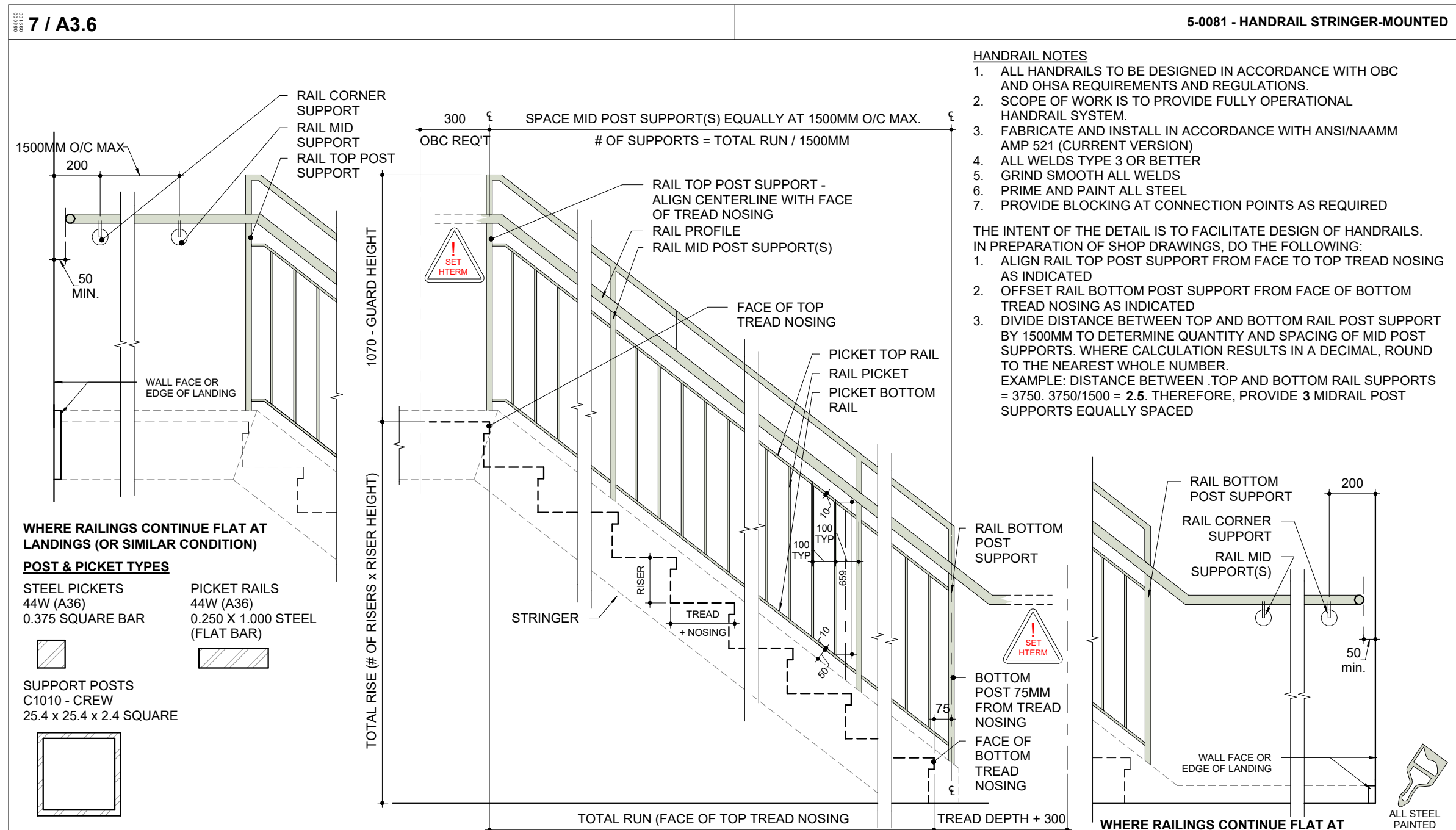
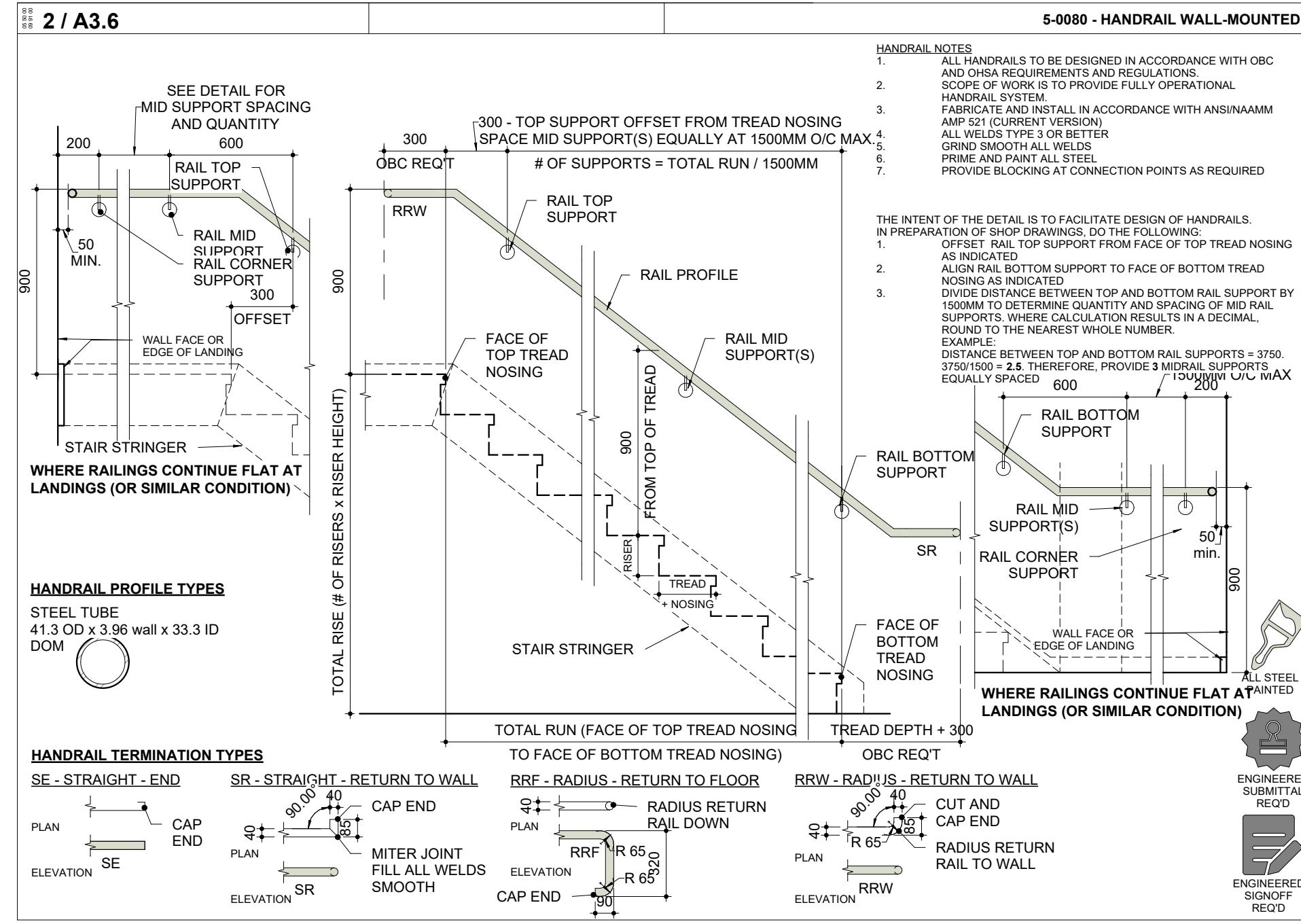
4 - Interior Elevation - FROM - 2/ A3.5
1:30

RAILING	Notes
	RAIL - GRD + HR - VPL 2
	HEIGHT - 1070
	*ENGINEERED SHOP DRAWING REQ'D PRIOR TO FABRICATION



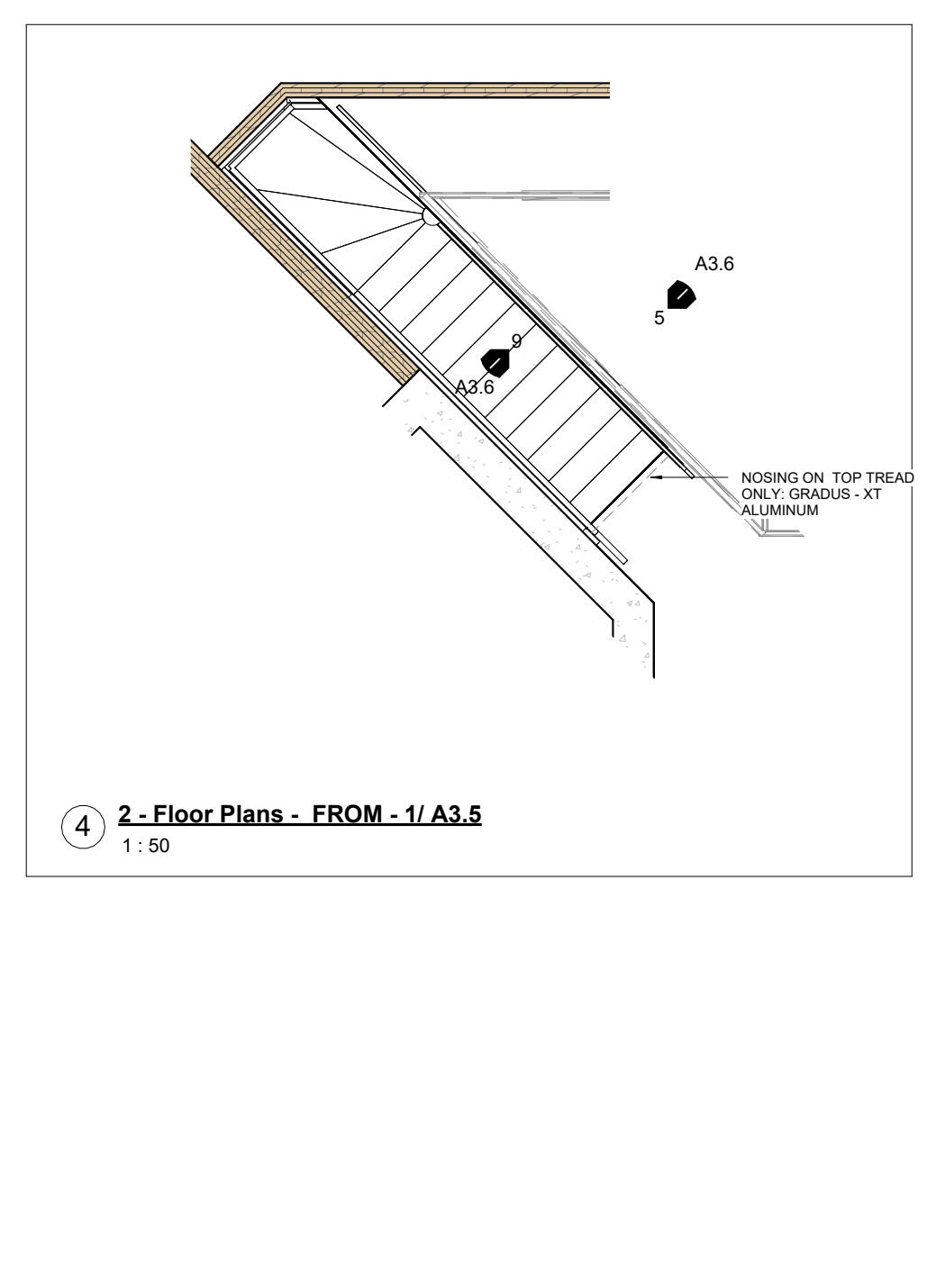
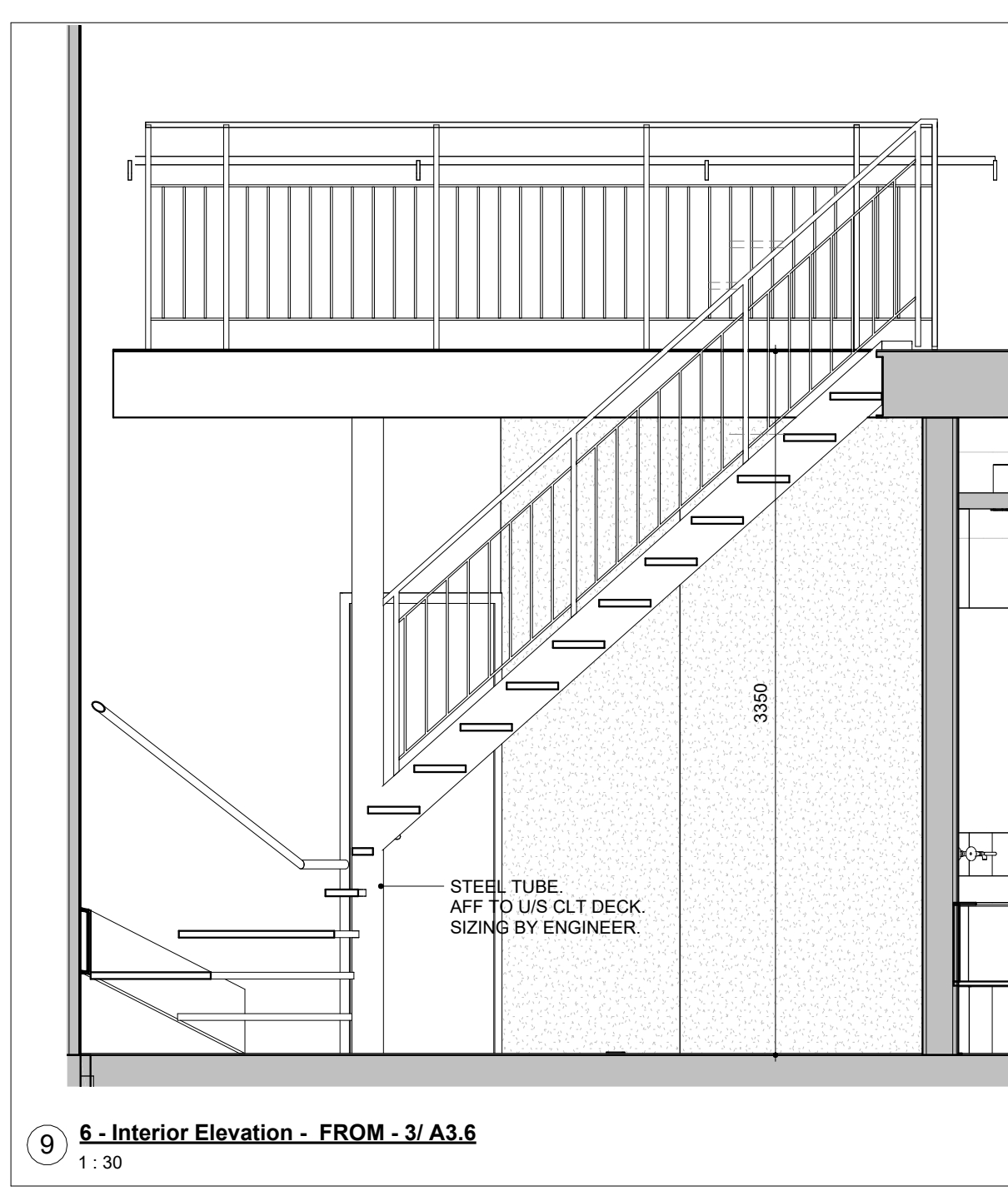
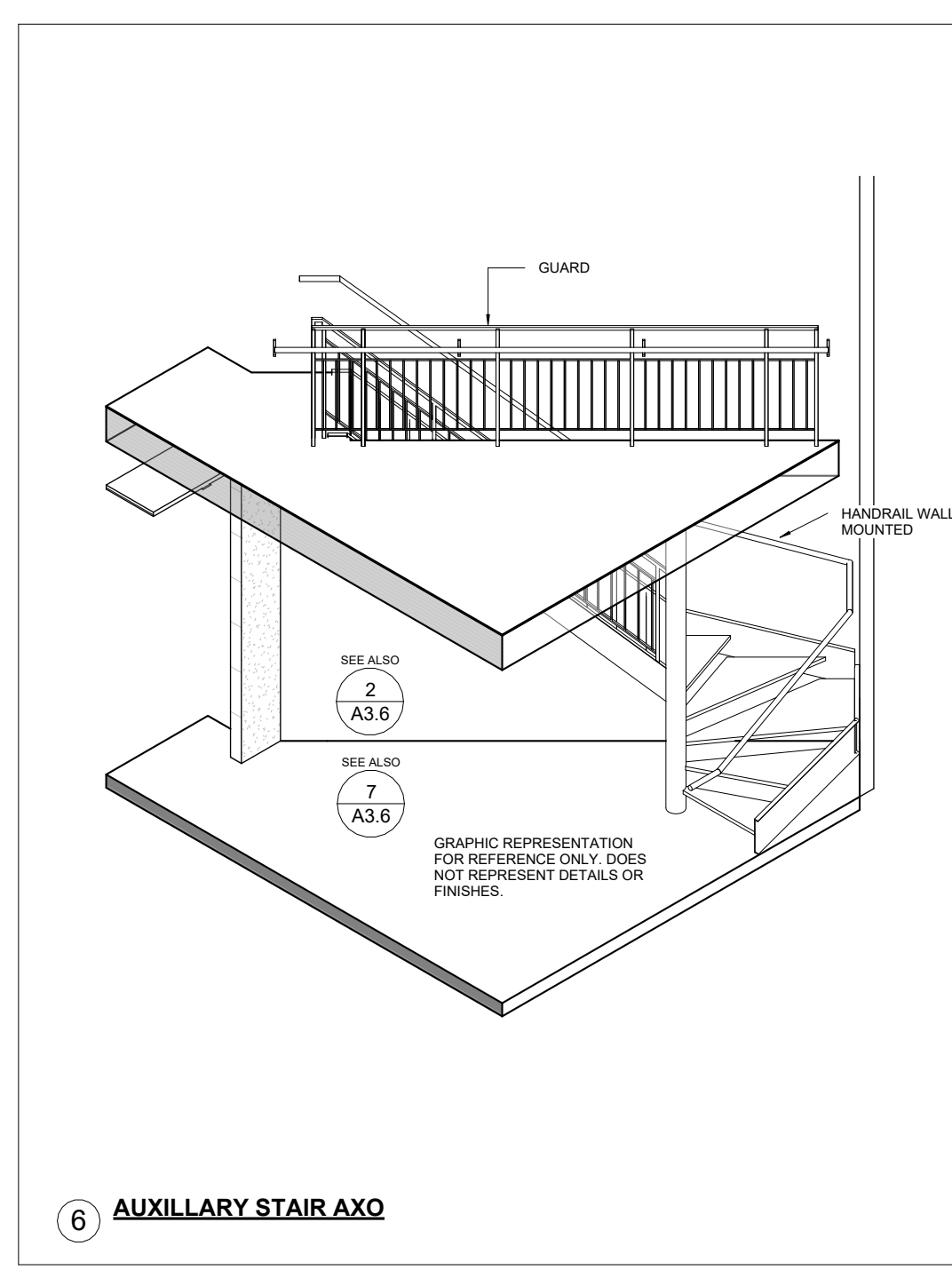
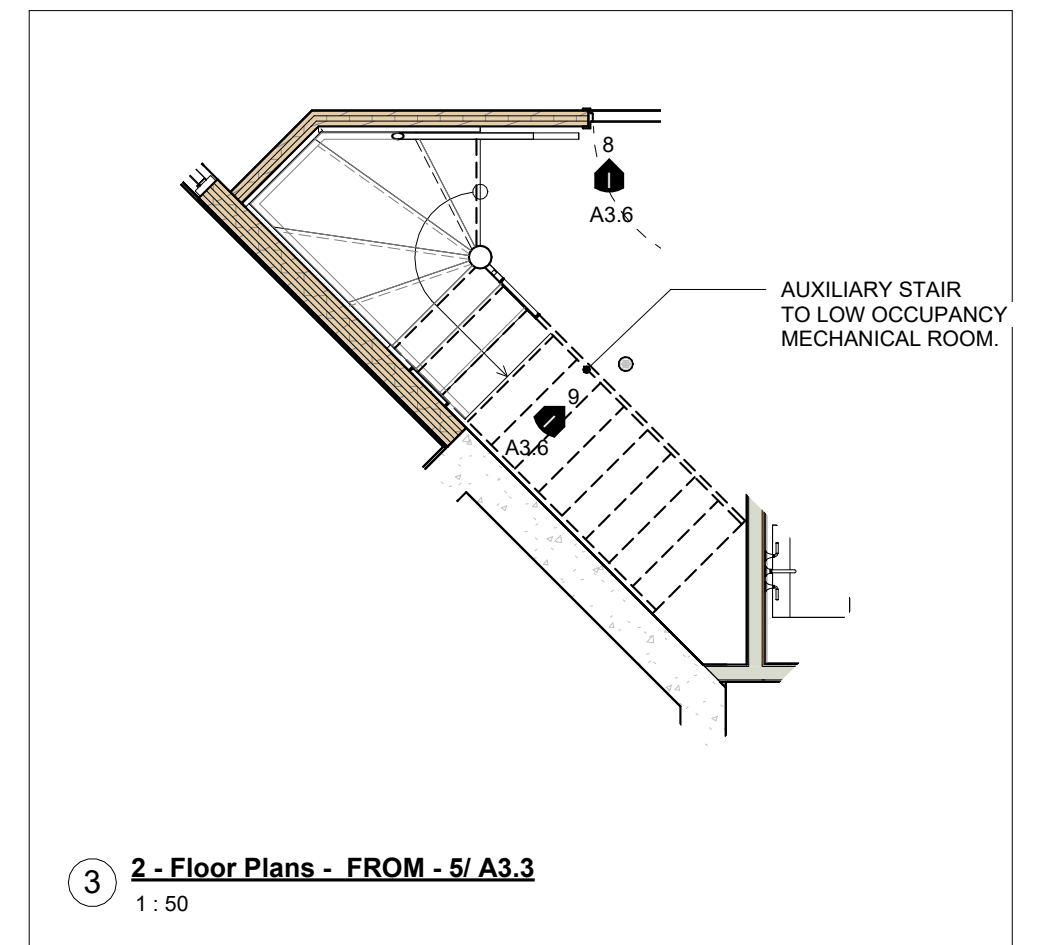
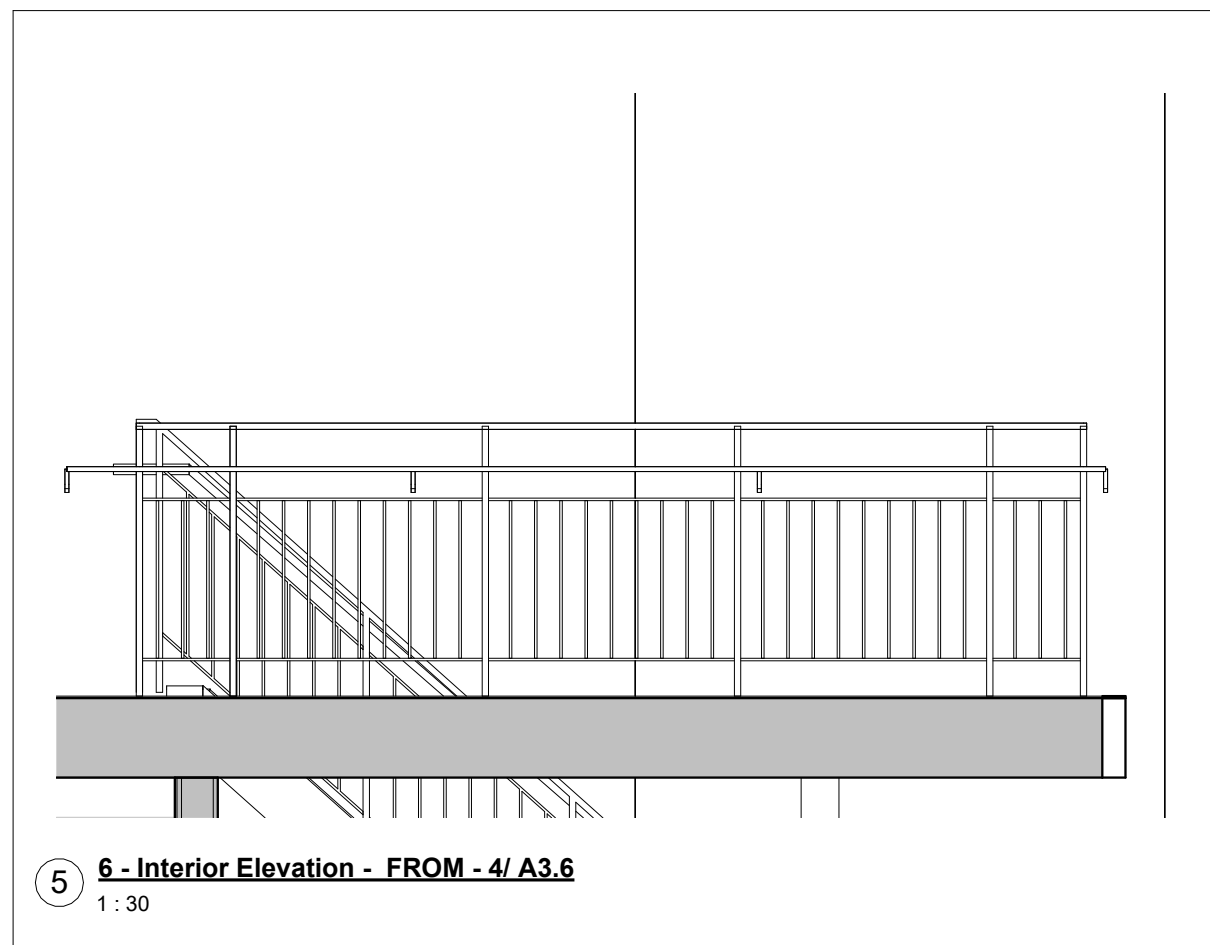
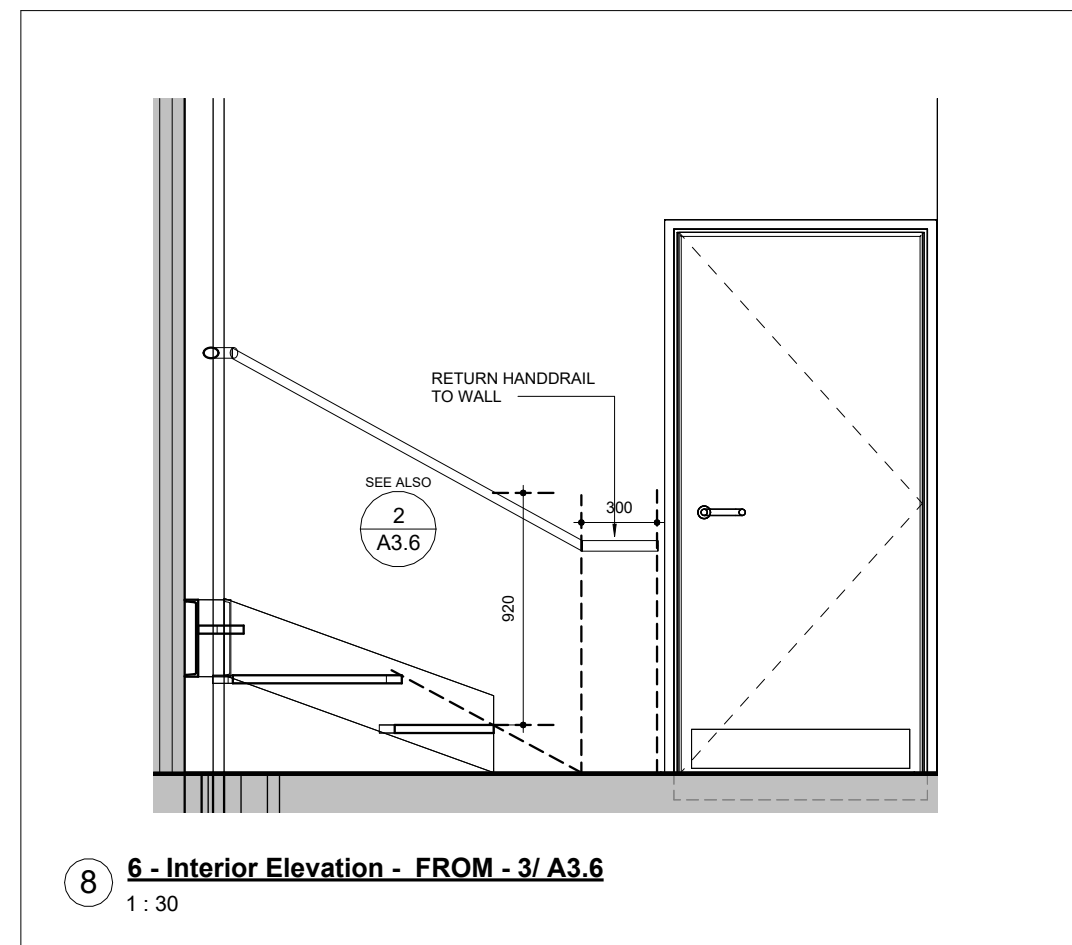
5 - Interior Elevation - FROM - 2/ A3.5
1:30

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NOTES:

- FABRICATE STAIRS IN ACCORDANCE WITH NAAMM METAL STAIR MANUAL (CURRENT EDITION)
- ENGINEERED STAMPED DRAWING REQUIRED PRIOR TO FABRICATION
- SURFACE PREP IN ACCORDANCE WITH AESS FINISH NOTED.
- REFER TO PLANS AND SECTIONS FOR 'AS NOTED' DIMENSIONS



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ISSUE OR REVISION

NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
16	DD CLIENT REVIEW	2023-07-24
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-18
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN

FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT:

CLIENT:

VAUGHAN

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT:

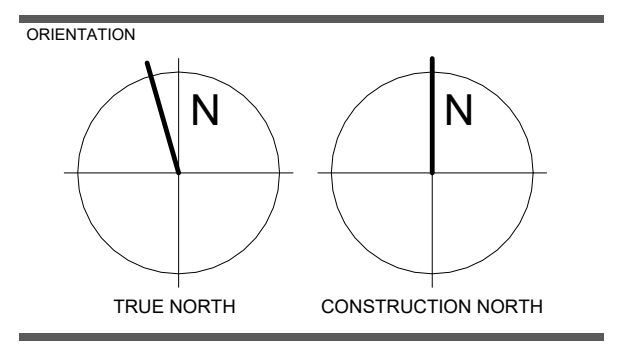
THOMASBROWNARCHITECTS

197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

AUXILIARY STAIR DETAILS



DATE: 2021-11-24

SCALE: As indicated

DRAWN BY: SRL

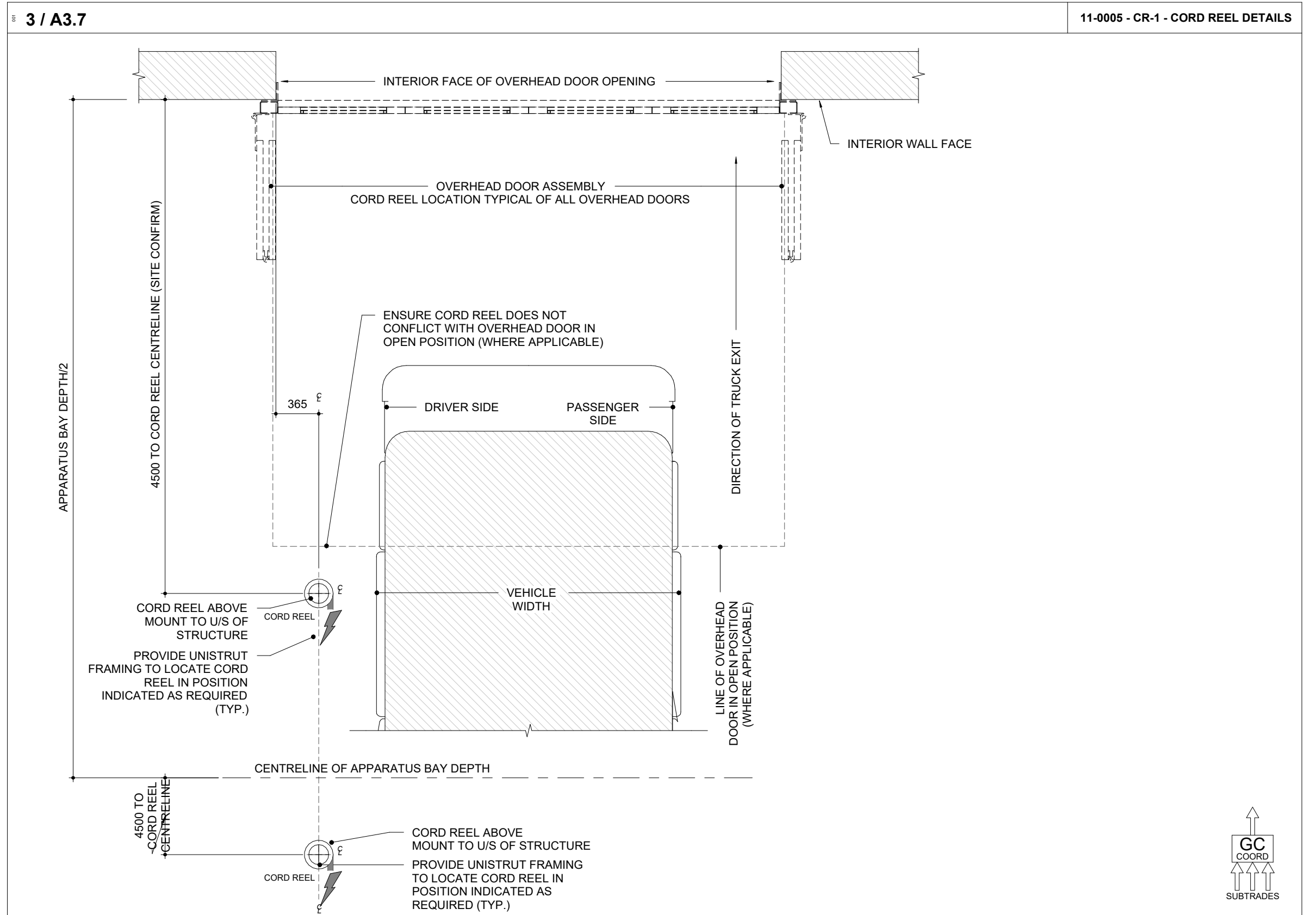
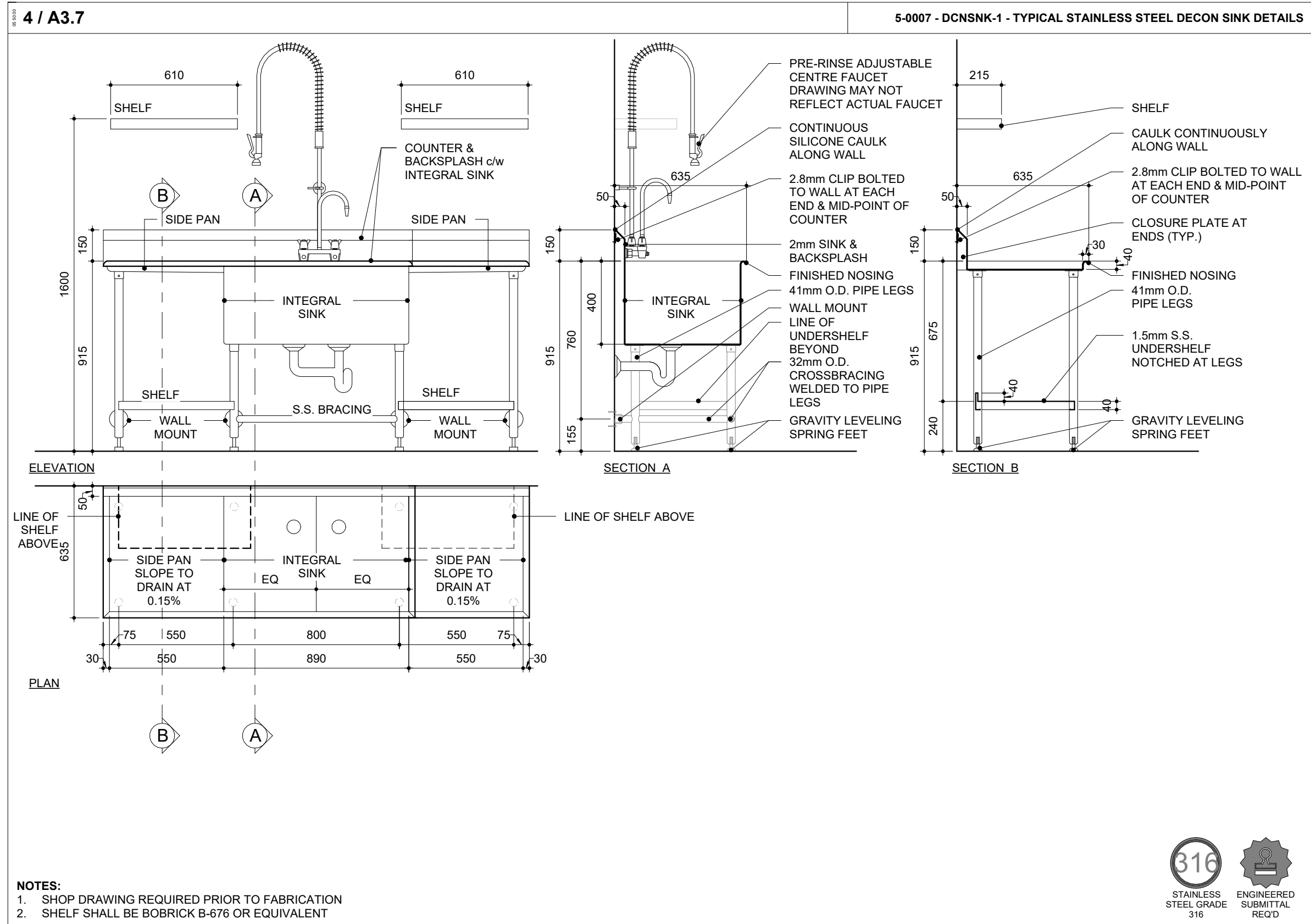
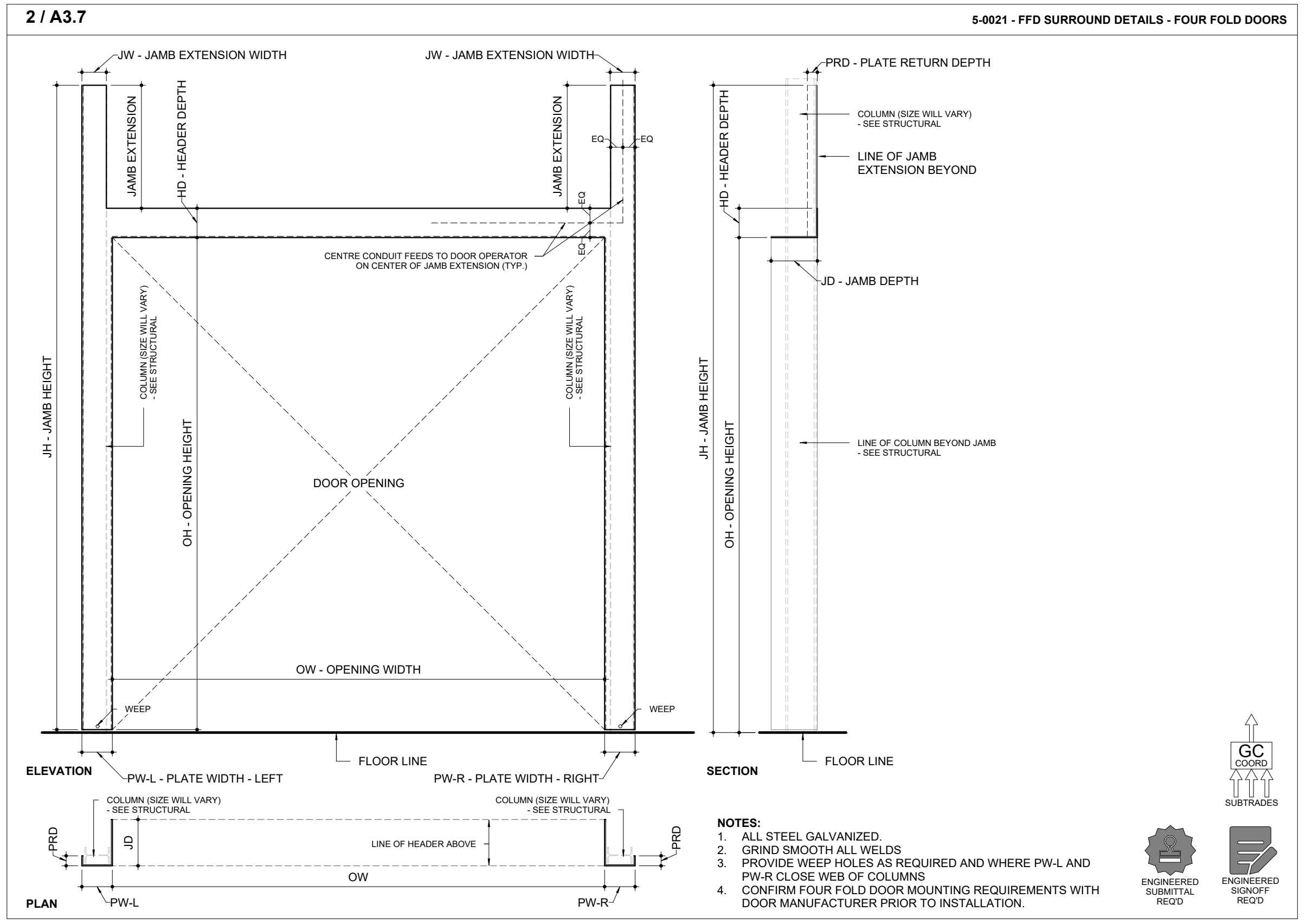
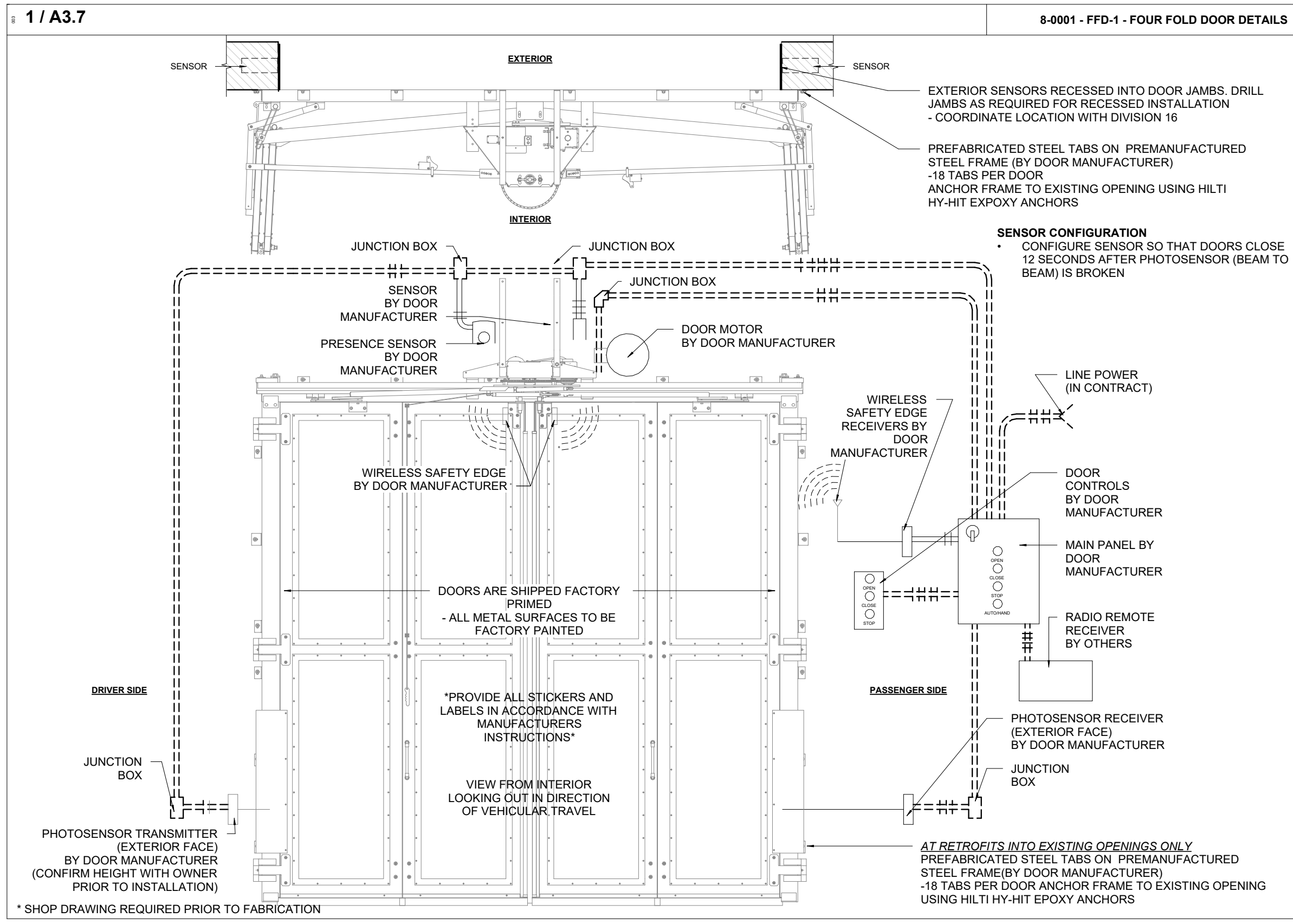
DWG STATUS: TENDER

PROJECT No: 2104

DRAWING No: A3.6

REVISION: 30

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ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFC	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT:

CLIENT:

VAUGHAN

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT:

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PROFESSIONAL SEAL

DWG TITLE

APPARATUS BAY DETAILS

ORIENTATION

DATE	2021-11-24
SCALE	As indicated
DRAWN BY	SRL
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A3.7
REVISION	30

2024-09-09 4:06:25 PM

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR REFPO	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
28	ADDENDUM #3	2024-05-22
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT:

CLIENT:



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

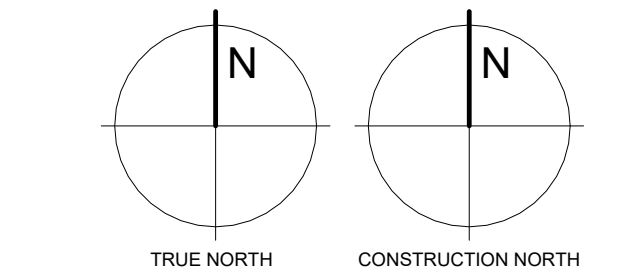
ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

ROOF PLAN

ORIENTATION



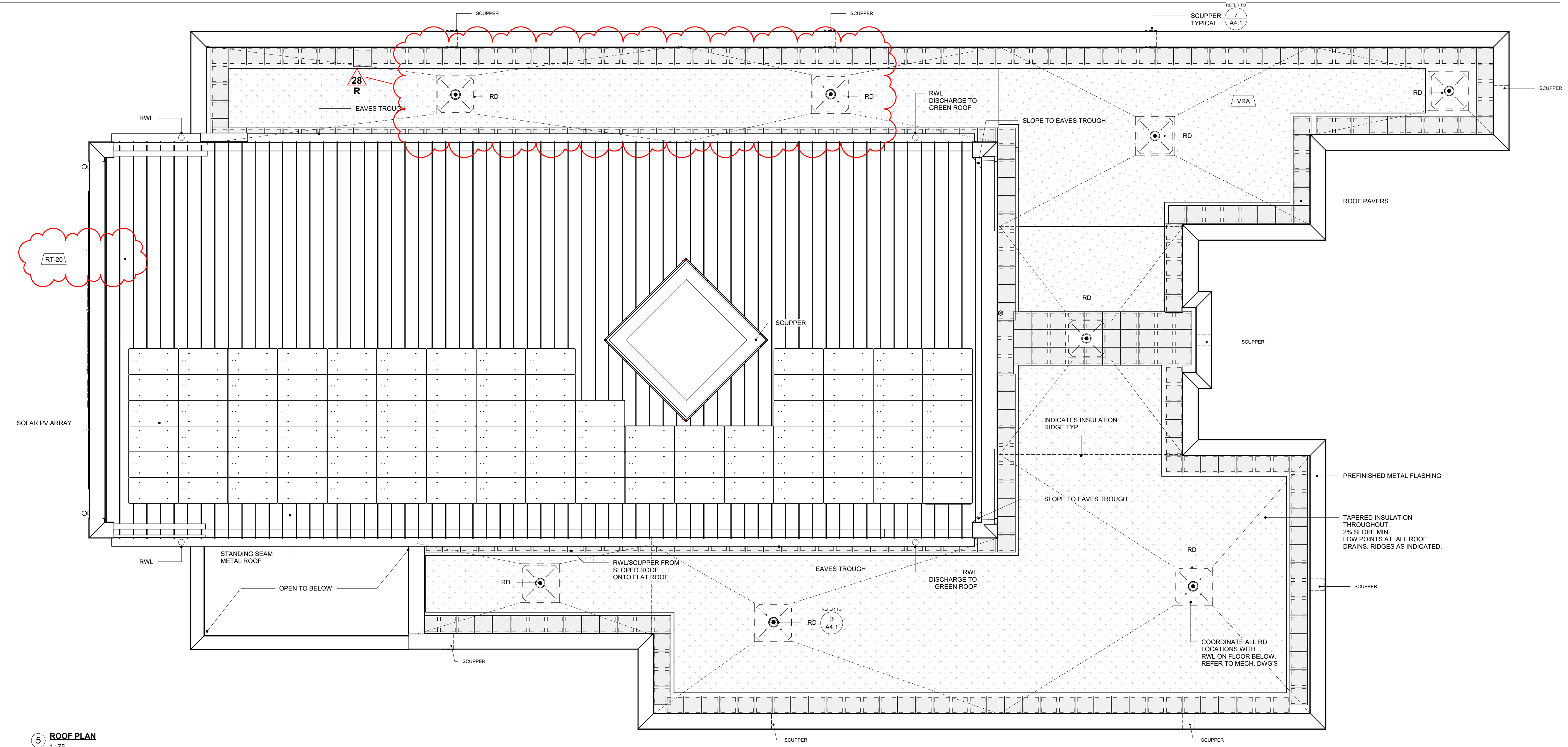
DATE: 2021-11-24

SCALE: As indicated DRAWN BY: SRL

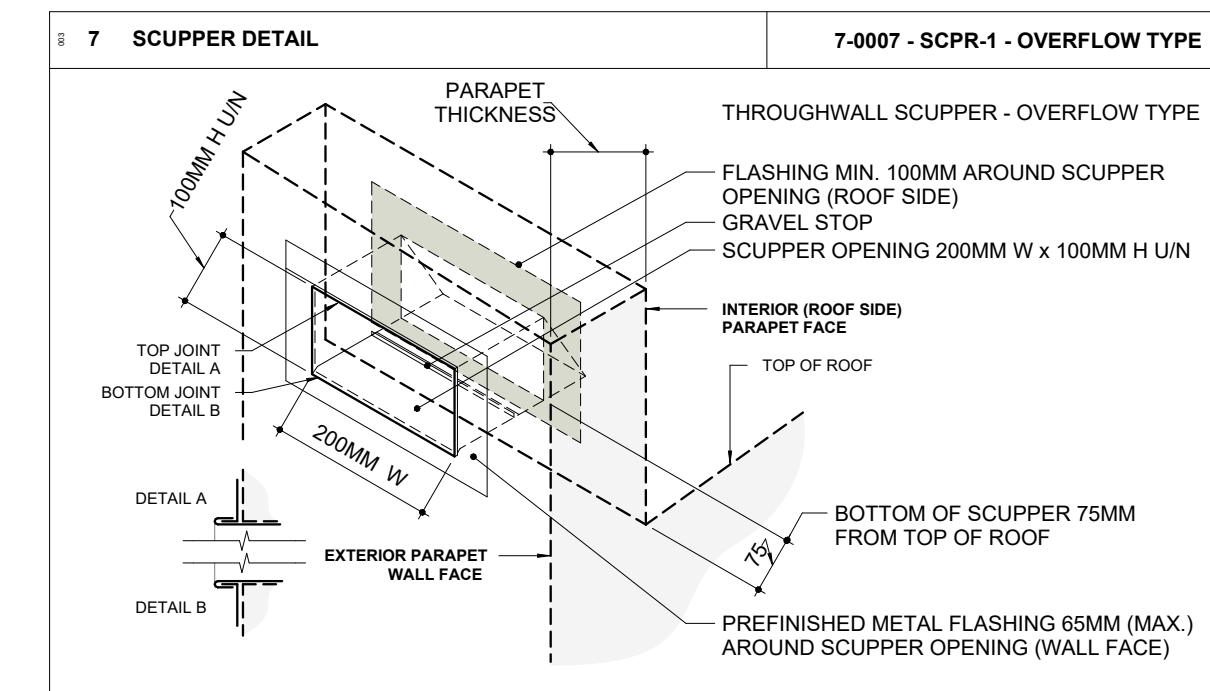
DWG STATUS: TENDER

PROJECT No: 2104

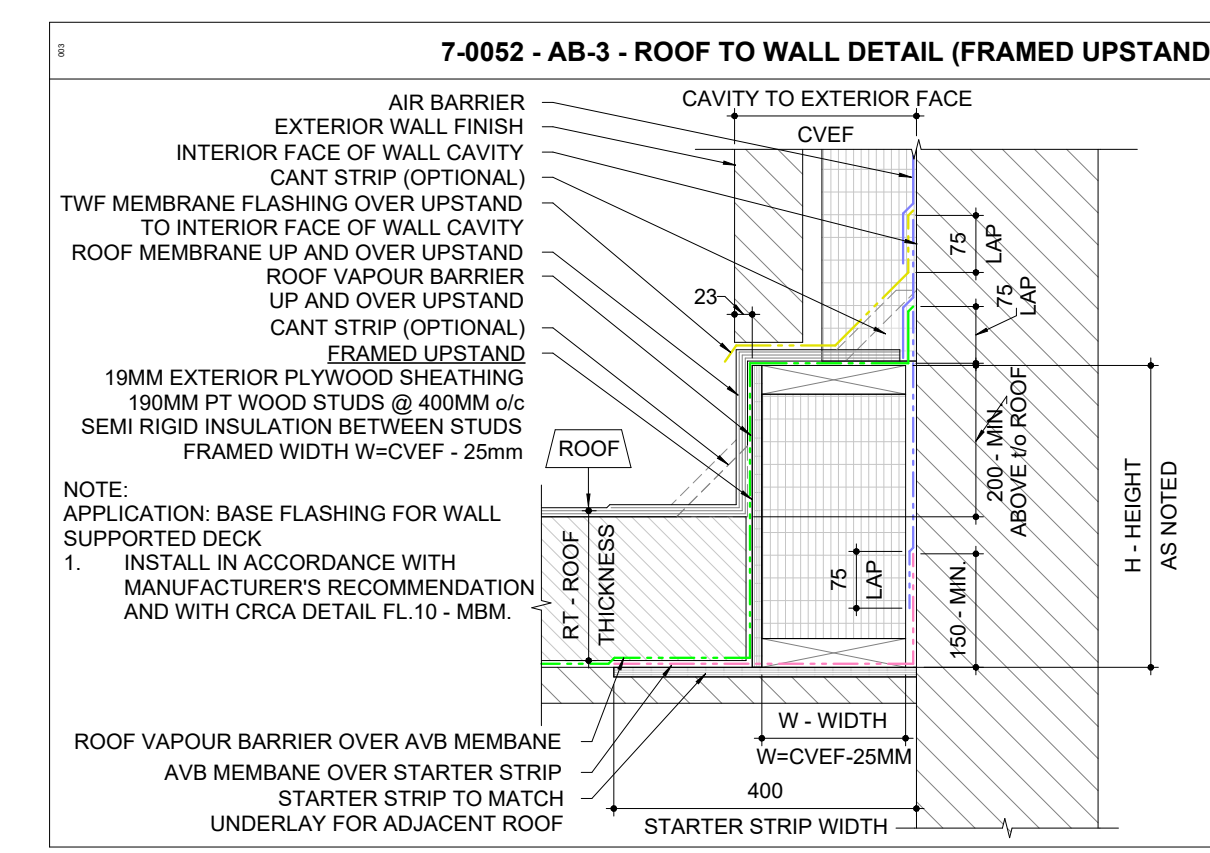
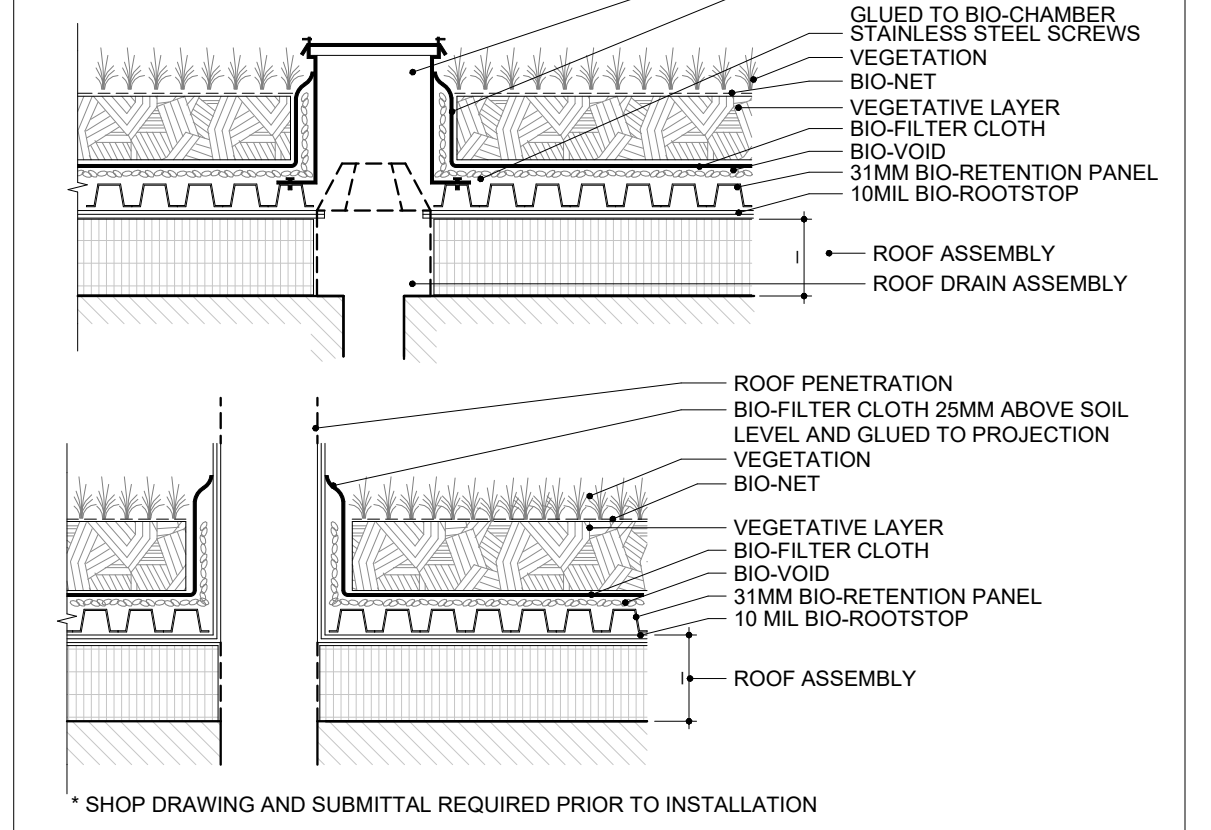
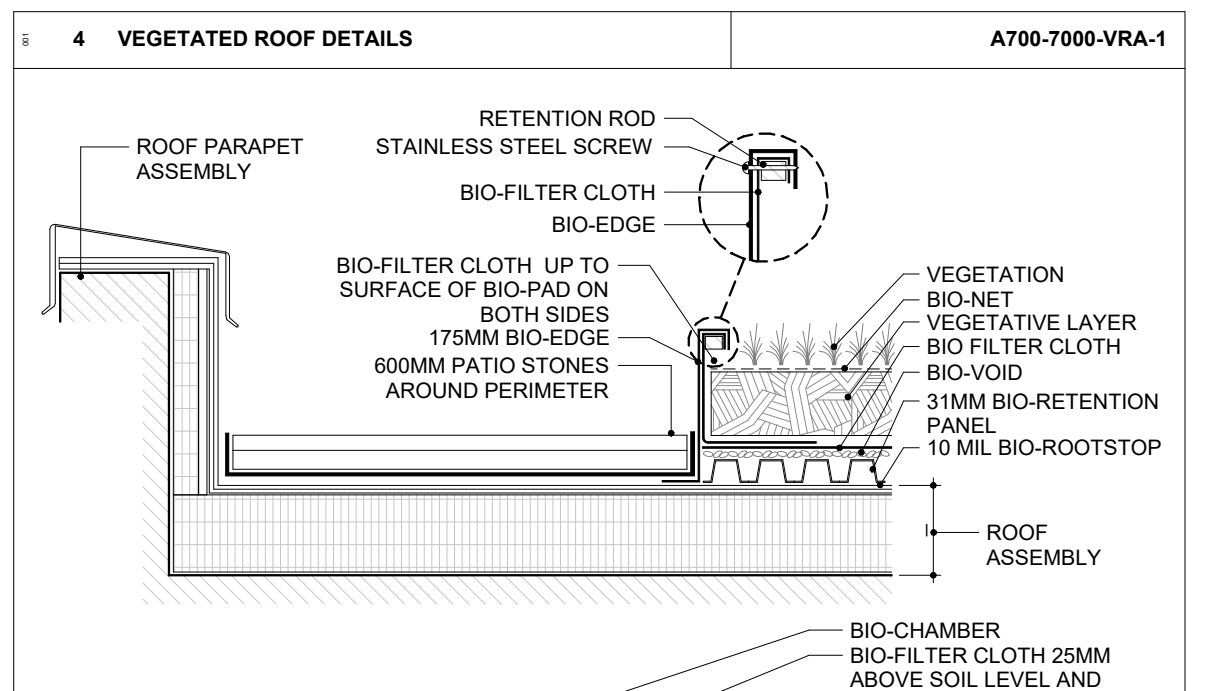
DRAWING No: A4.1 REVISION: 30



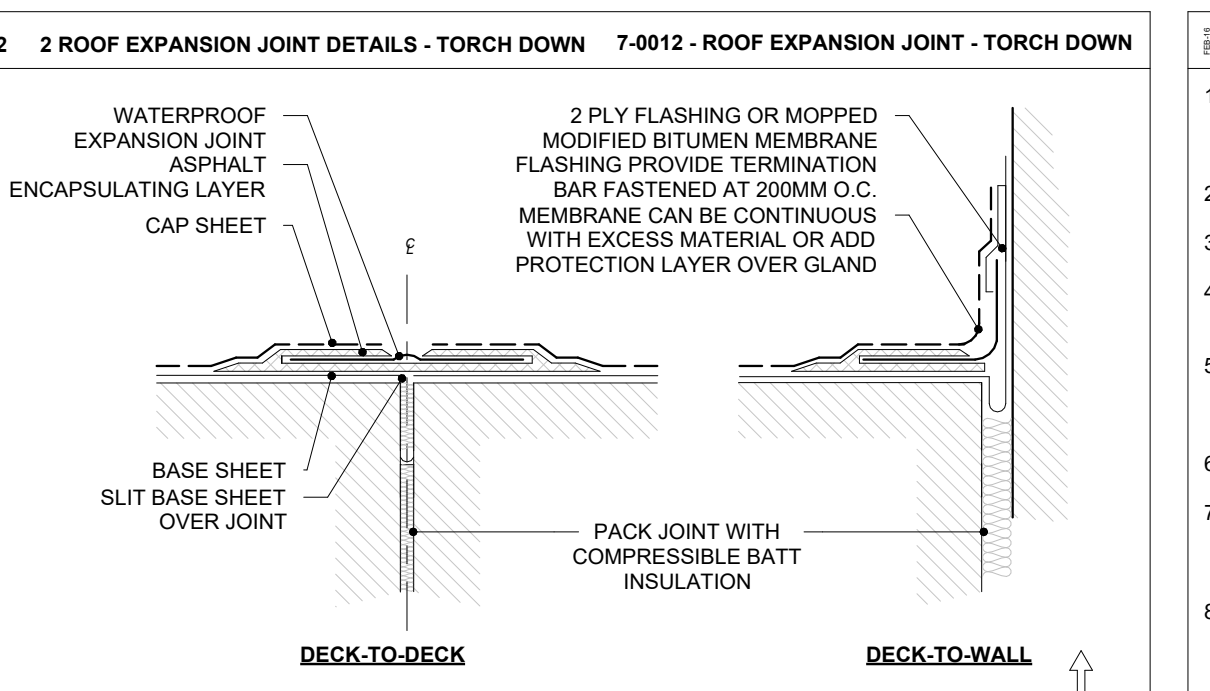
5 ROOF PLAN
1:75



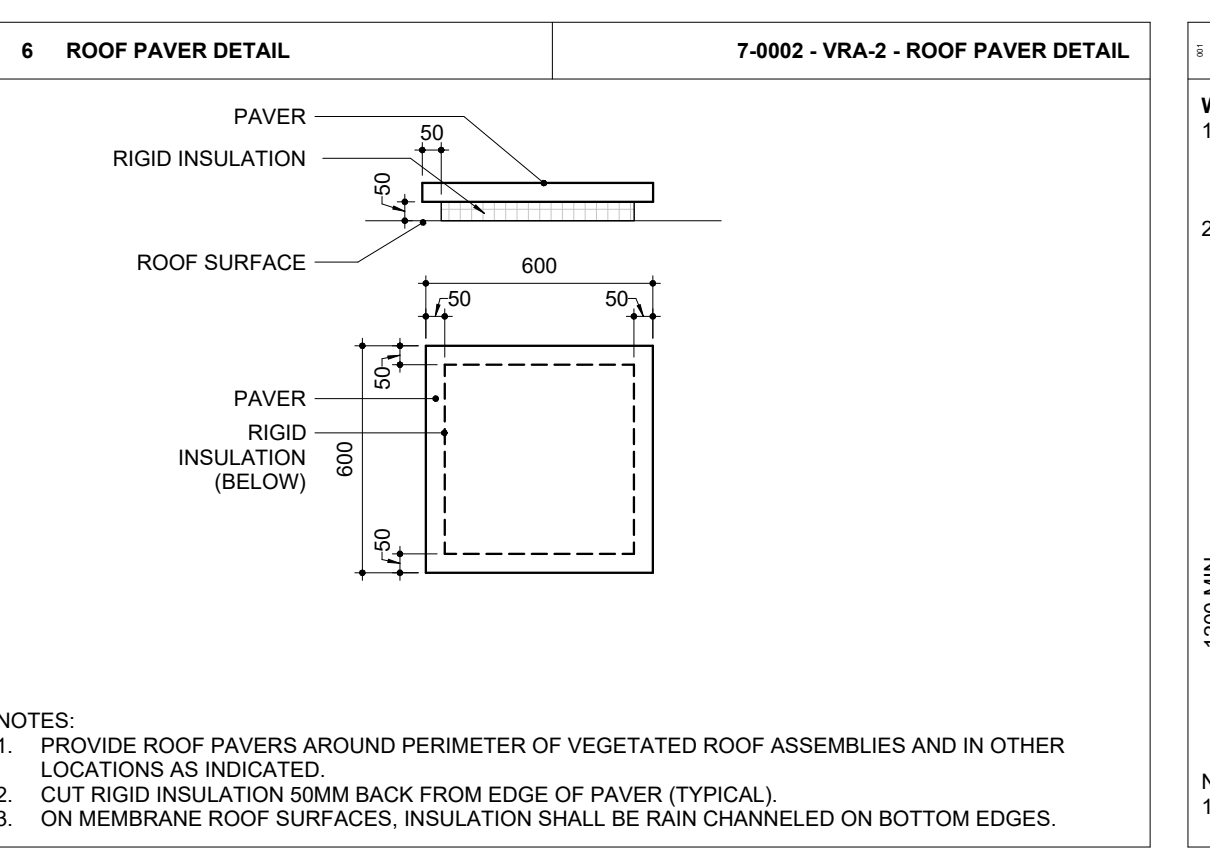
- NOTES:
- FABRICATE AND INSTALL IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL - CURRENT EDITION
 - ALL JOINTS - METAL SHALL BE SOLDERED - ALUMINUM SHALL BE WELDED



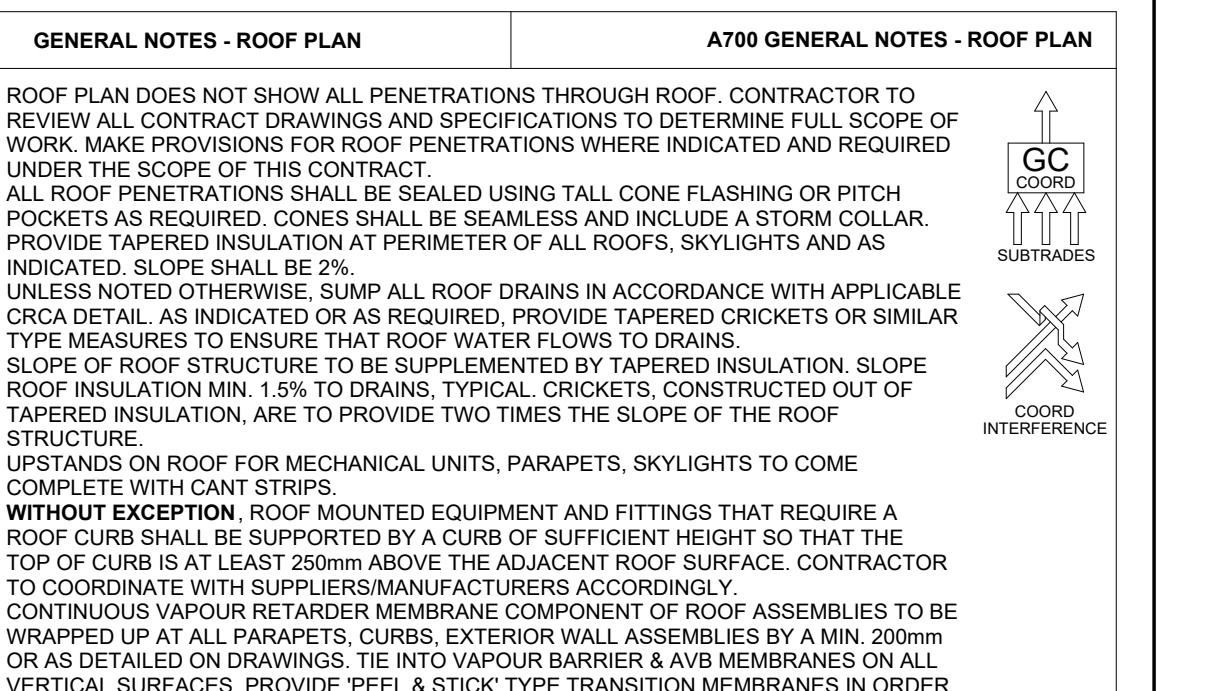
- NOTE:
- APPLICATION: BASE FLASHING FOR WALL SUPPORTED DECK
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND WITH CRCA DETAIL FL-T - MEM.



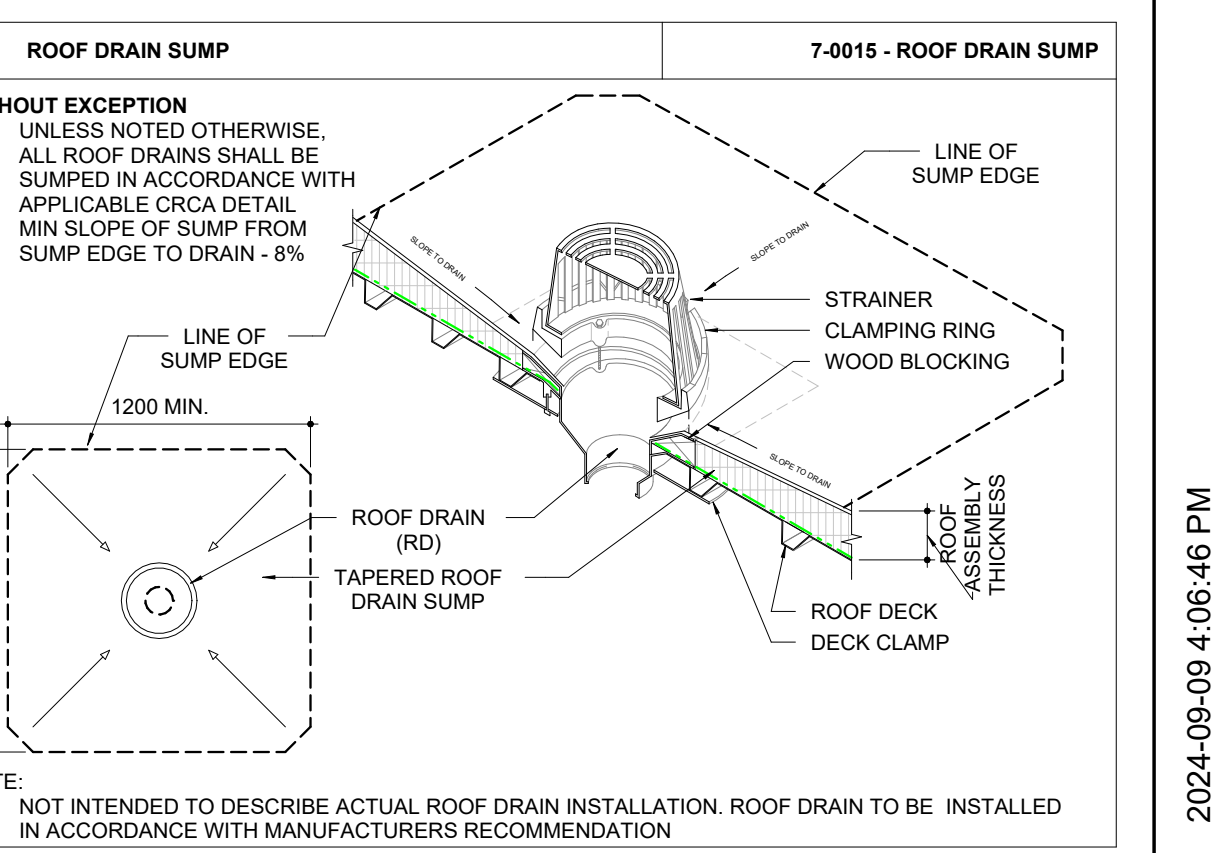
- NOTES:
- DETAILS ARE BASED ON SBS MODBIT ROOFING SYSTEM APPLICATION
 - DETAILS REPRESENT TYPICAL APPLICATION. ADAPT INSTALLATION TO SUIT CONDITIONS
 - USE LIQUID MEMBRANE RECOMMENDED BY ROOFING SYSTEM MANUFACTURER



- NOTES:
- PROVIDE ROOF PAVERS AROUND PERIMETER OF VEGETATED ROOF ASSEMBLIES AND IN OTHER LOCATIONS AS INDICATED.
 - CUT RIGID INSULATION 50MM BACK FROM EDGE OF PAVER (TYPICAL).
 - ON MEMBRANE ROOF SURFACES, INSULATION SHALL BE RAIN CHANNELLED ON BOTTOM EDGES.

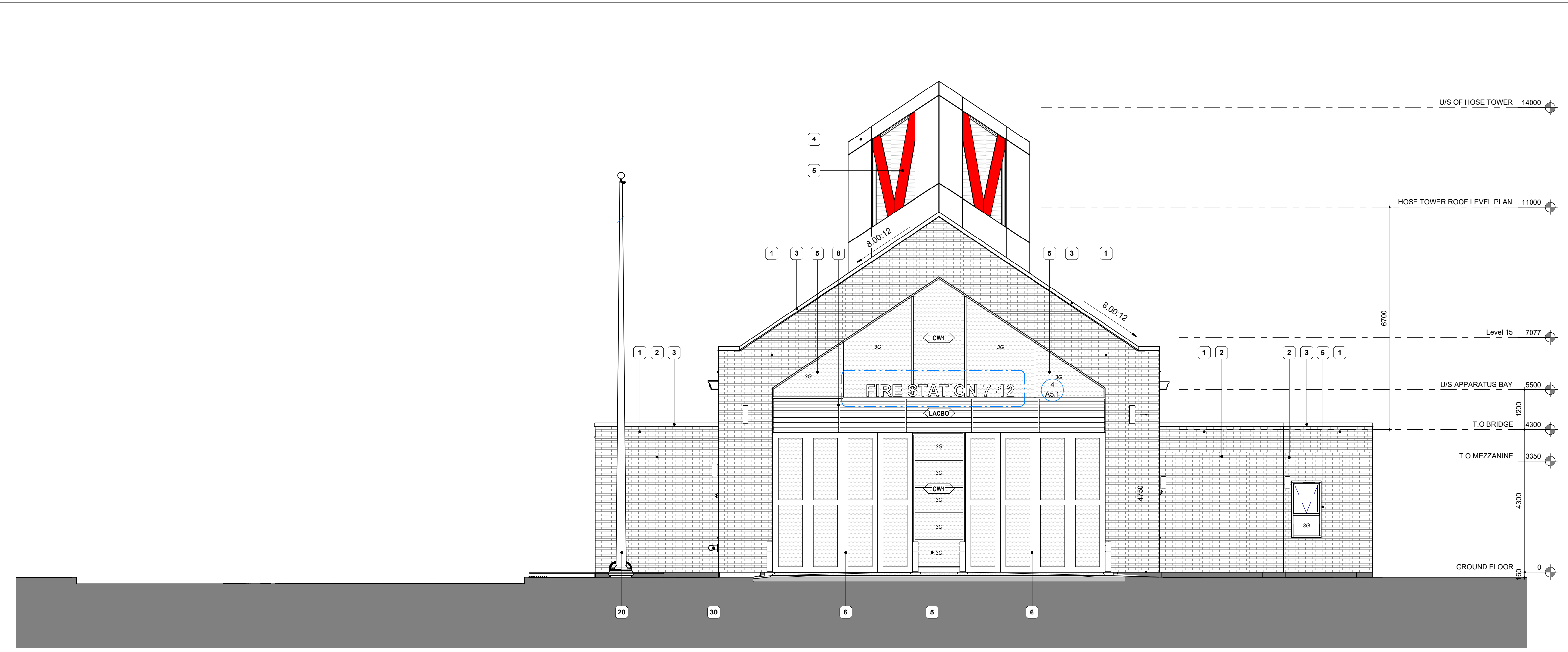


- NOTES:
- ROOF PLAN DOES NOT SHOW ALL PENETRATIONS THROUGH ROOF. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. MAKE PROVISIONS FOR ROOF PENETRATIONS WHERE INDICATED AND REQUIRED UNDER THE SCOPE OF THIS CONTRACT.
 - ALL ROOF PENETRATIONS SHALL BE SEALED USING TALL CONE FLASHING OR PITCH POCKETS AS REQUIRED. CONES SHALL BE SEAMLESS AND INCLUDE A STORM COLLAR.
 - PROVIDE TAPERED INSULATION AT PERIMETER OF ALL ROOFS, SKYLIGHTS AND AS INDICATED. SLOPE SHALL BE 2%.
 - UNLESS NOTED OTHERWISE, SUMP ALL ROOF DRAINS IN ACCORDANCE WITH APPLICABLE CRCA DETAIL. AS INDICATED OR AS REQUIRED, PROVIDE TAPERED CRICKETS OR SIMILAR TYPE MEASURES TO ENSURE THAT ROOF WATER FLOWS TO DRAINS.
 - SLOPE OF ROOF STRUCTURE TO BE SUPPLEMENTED BY TAPERED INSULATION. SLOPE ROOF INSULATION MIN. 1% TO DRAINS. TYPICAL CRICKETS, CONSTRUCTED OUT OF TAPERED INSULATION, ARE TO PROVIDE TWO TIMES THE SLOPE OF THE ROOF STRUCTURE.
 - UPSTANDS ON ROOF FOR MECHANICAL UNITS, PARAPETS, SKYLIGHTS TO COME COMPLETE WITH CANT STRIPS.
 - WITHOUT EXCEPTION, ROOF MOUNTED EQUIPMENT AND FITTINGS THAT REQUIRE A ROOF CURB SHALL BE SUPPORTED BY A CURB OF SUFFICIENT HEIGHT SO THAT THE TOP OF CURB IS AT LEAST 250mm ABOVE THE ADJACENT ROOF SURFACE. CONTRACTOR TO COORDINATE WITH SUPPLIERS/MANUFACTURERS ACCORDINGLY.
 - CONTINUOUS VAPOUR RETARDER MEMBRANE COMPONENT OF ROOF ASSEMBLIES TO BE WRAPPED UP AT ALL PARAPETS, CURBS, EXTERIOR WALL ASSEMBLIES BY A MIN. 200mm OR AS DETAILED ON DRAWINGS. TIE INTO VAPOUR BARRIER & AVB MEMBRANES ON ALL VERTICAL SURFACES. PROVIDE 'PEEL & STICK' TYPE TRANSITION MEMBRANES IN ORDER TO ENSURE CONTINUITY OF AIR BARRIERS/BUILDING ENVELOPE.

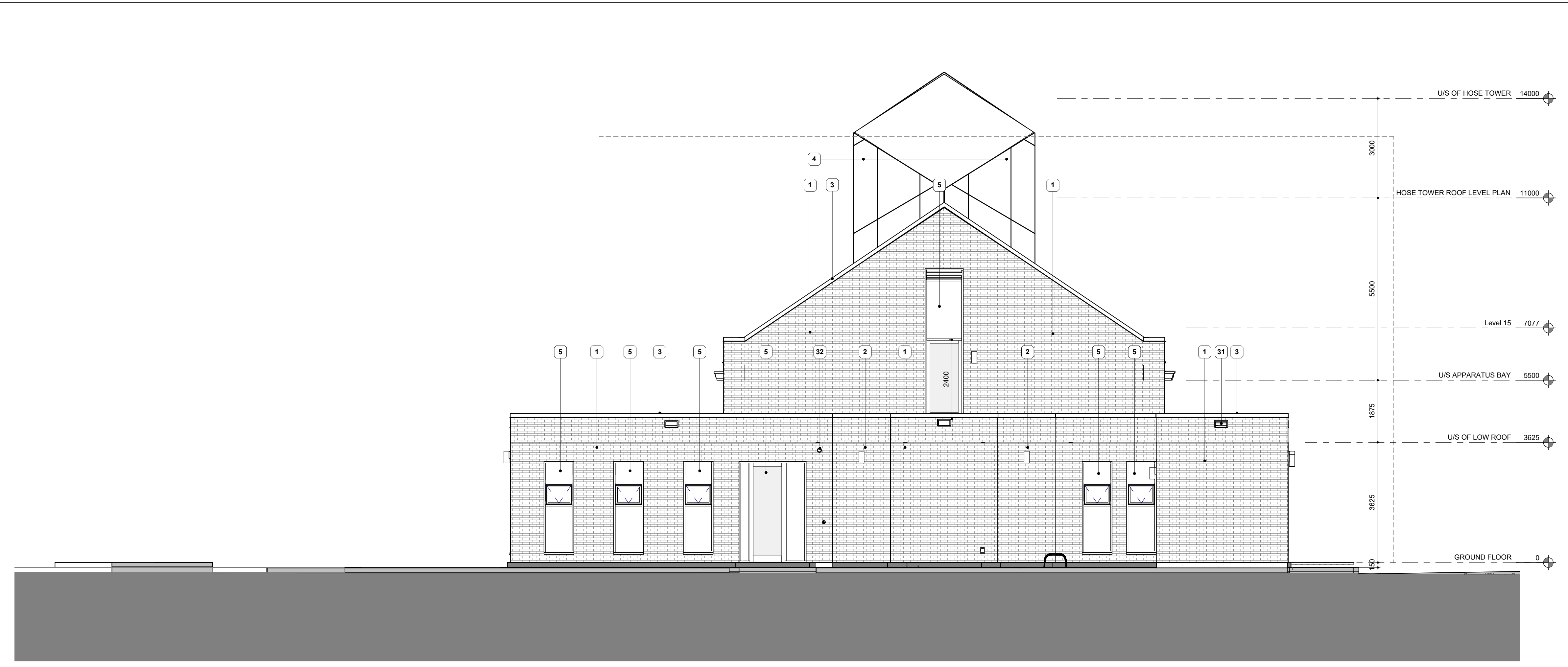


- NOTE:
- NOT INTENDED TO DESCRIBE ACTUAL ROOF DRAIN INSTALLATION. ROOF DRAIN TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION

2024-09-09 4:06:46 PM



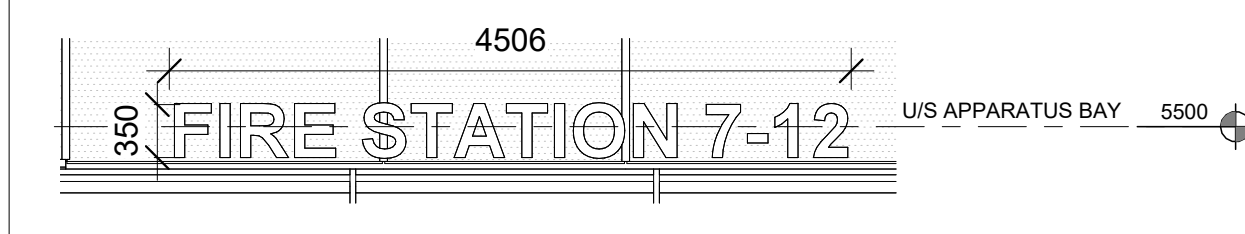
3 1 - Building Elevations - FROM - 5/ A3.3
1:75



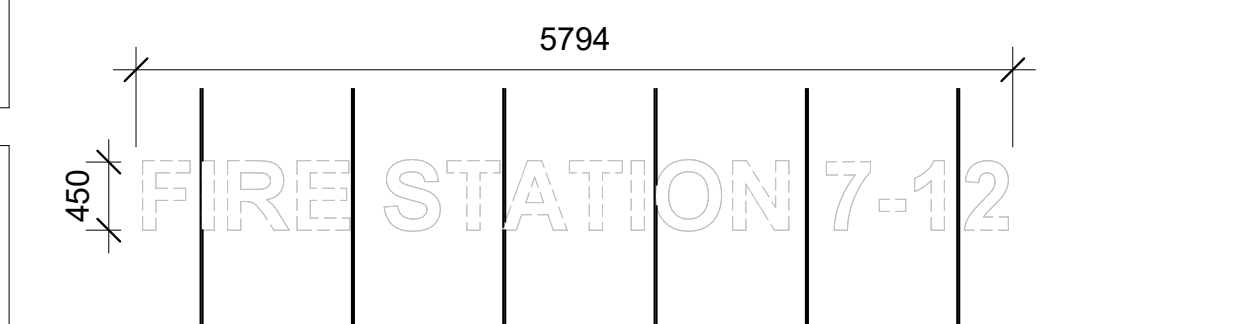
2 1 - Building Elevations - FROM - 5/ A3.3
1:75

- | 1 GENERAL NOTES - BUILDING ELEVATIONS | A700 GENERAL NOTES - BUILDING ELEVATIONS |
|--|--|
| <ol style="list-style-type: none"> THIS DRAWING IS TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS PREPARED BY THE MECHANICAL AND ELECTRICAL ENGINEERS TO DETERMINE LOCATIONS OF ALL MECHANICAL AND ELECTRICAL PENETRATIONS, FIXTURES, DEVICES ETC. ELEVATION DRAWINGS MAY NOT SHOW ALL PENETRATIONS. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. MAKE PROVISIONS FOR PENETRATIONS WHERE INDICATED AND REQUIRED UNDER THE SCOPE OF THIS CONTRACT. ELEVATION DRAWINGS MAY NOT SHOW ALL FIXTURES, DEVICES ETC. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. REPORT ANY DISCREPANCIES WITH MECHANICAL AND ELECTRICAL DRAWINGS TO CONSULTANT IMMEDIATELY. OBTAIN INSTRUCTION FROM CONSULTANT BEFORE COMMENCING INSTALLATION. LOCATION OF FIXTURES, DEVICES ETC. AS SHOWN ON ELEVATION DRAWINGS SHALL BE INSTALLED IN THE LOCATIONS INDICATED. UNLESS SPECIFICALLY DIMENSIONED, FIXTURES SUCH AS WALL MOUNTED LIGHTS SHALL BE CENTERED OVER OPENINGS. | <p>GC COORDS
SUBTRADES</p> |

- BUILDING ELEVATION NOTES**
- | NUMBER | NOTE |
|--------|---------------------------------------|
| 1 | BRICK MASONRY VENEER |
| 2 | LIGHT FIXTURE |
| 3 | PREFINISHED METAL COPING |
| 4 | PREFINISHED ALUMINUM PANEL SYSTEM |
| 5 | GLAZING |
| 6 | PREFINISHED BAY DOOR (4-FOLD) |
| 7 | CUSTOM SIGNAGE |
| 8 | LOUVER SYSTEM |
| 9 | WALL MOUNTED LIGHT FIXTURE |
| 10 | STANDING SEAM METAL ROOFING |
| 11 | ANODIZED ALUMINUM GLASS DOOR |
| 12 | PREFINISHED OVERHEAD DOOR |
| 13 | PTD HOLLOW METAL DOOR |
| 14 | FENCING SCREEN |
| 15 | LIGHT FIXTURE POLE |
| 16 | P-GATES |
| 20 | FLAGPOLE CWV DECORATIVE CONCRETE BASE |
| 30 | BUILDING SIAMSE |
| 31 | ROOF SCUPPER |
| 32 | CCTV CAMERA |

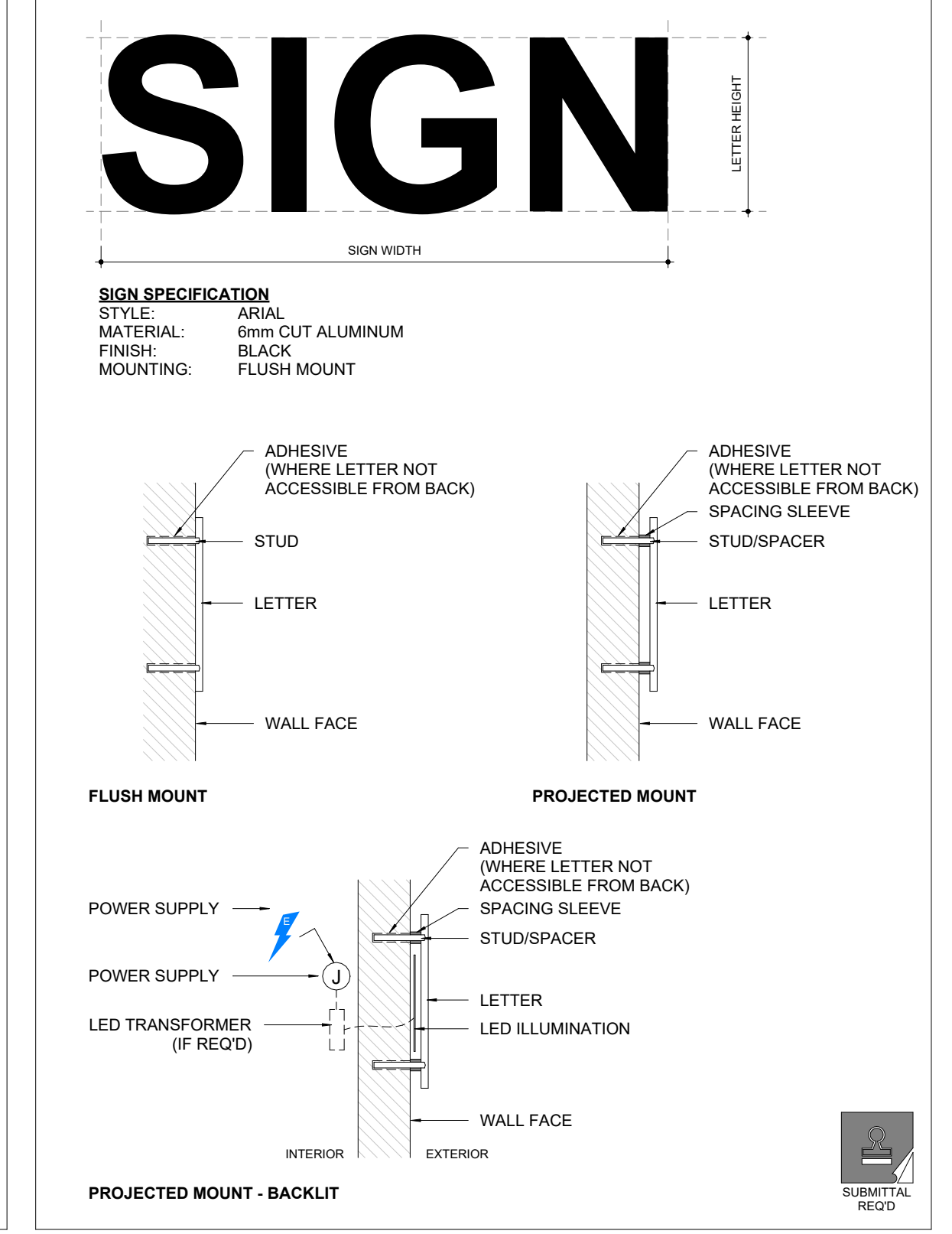


4 BUILDING SIGNAGE
1:50



5 BUILDING SIGNAGE
1:50

6 / A5.1 10-040 - BUILDING SIGN DETAILS (EXTERIOR)



NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION	2022-08-30
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
23	BUILDING PERMIT - BUILDING HEIGHT	2023-12-04
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFC	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN
FIRE STATION 7-12
 9511 WESTON ROAD, VAUGHAN



CLIENT
 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
 197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE
BUILDING ELEVATIONS

ORIENTATION

DATE
 2021-11-24

SCALE
 As indicated DRAWN BY
 SRL

DWG STATUS
TENDER

PROJECT No.
2104

DRAWING No.
A5.1 REVISION
 30

2024-09-09 4:07:47 PM

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION 1	2022-08-30
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR REFPO	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT :

CLIENT :



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ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

**BUILDING
ELEVATIONS**

ORIENTATION

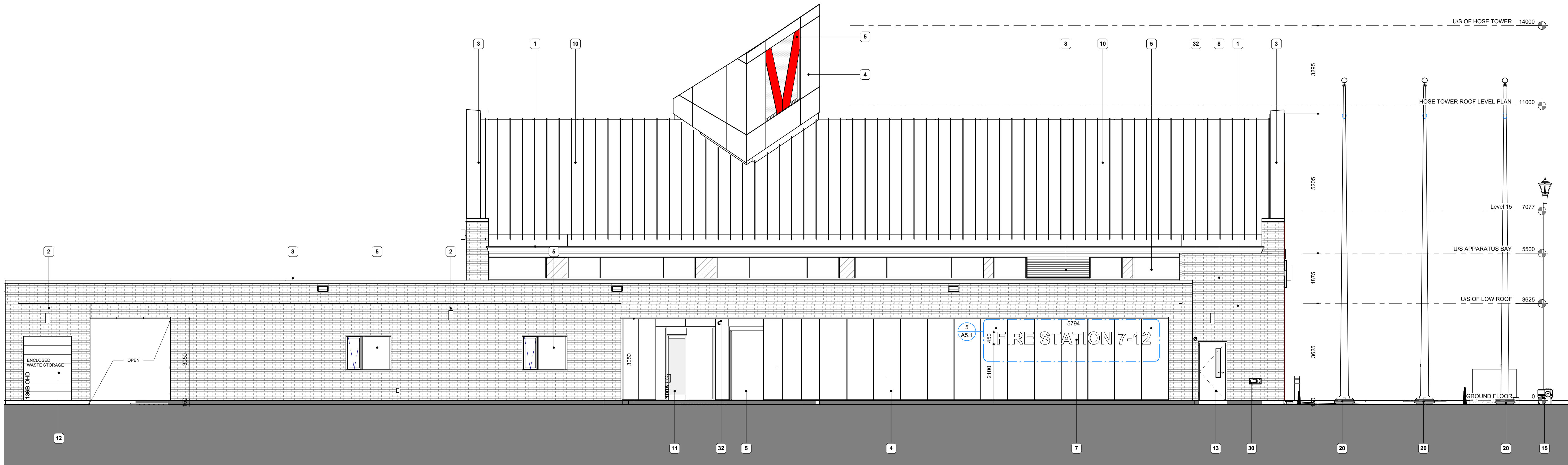
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SCALE 1 : 75 DRAWN BY SRL

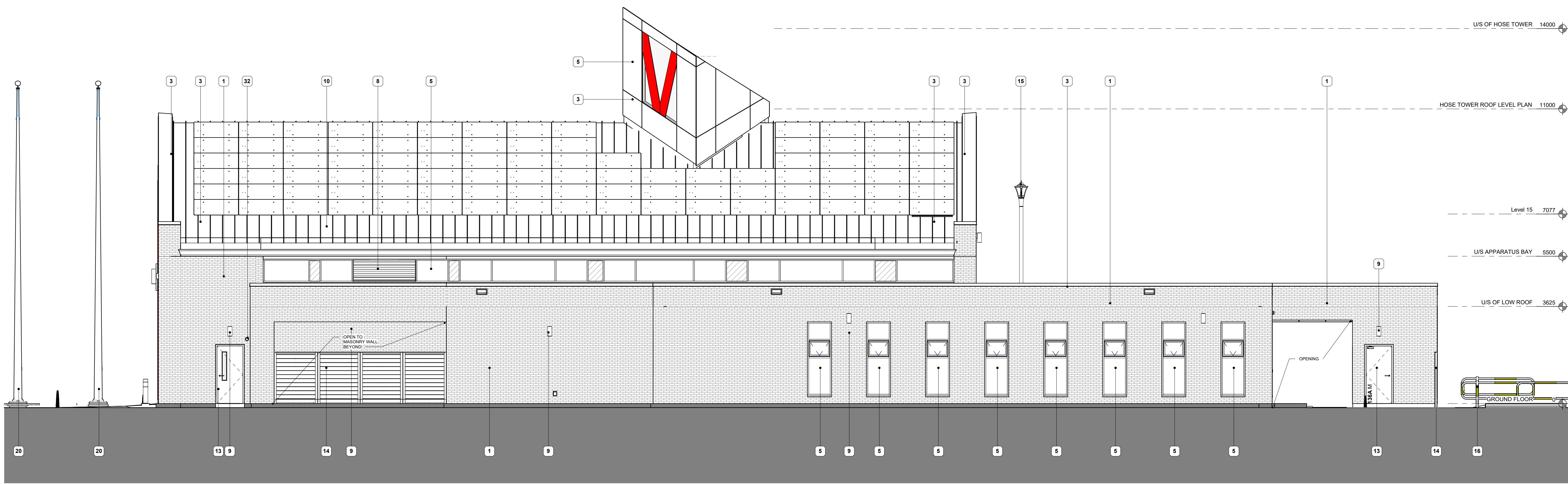
DWG STATUS: **TENDER**

PROJECT No. **2104**

DRAWING No. **A5.2** REVISION 30



1 - Building Elevations -
1:75



2 - Building Elevations -
1:75

2024-09-09 4:08:03 PM

NO.	ISSUED FOR	DATE
16	DD CLIENT REVIEW	2023-07-24
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFP	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
28	ADDENDUM #3	2024-05-22
29	ADDENDUM #4	2024-05-30
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

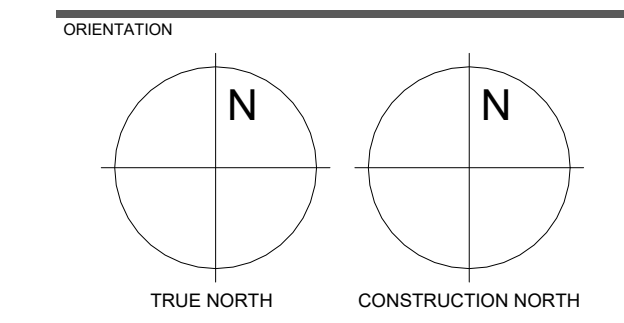


THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

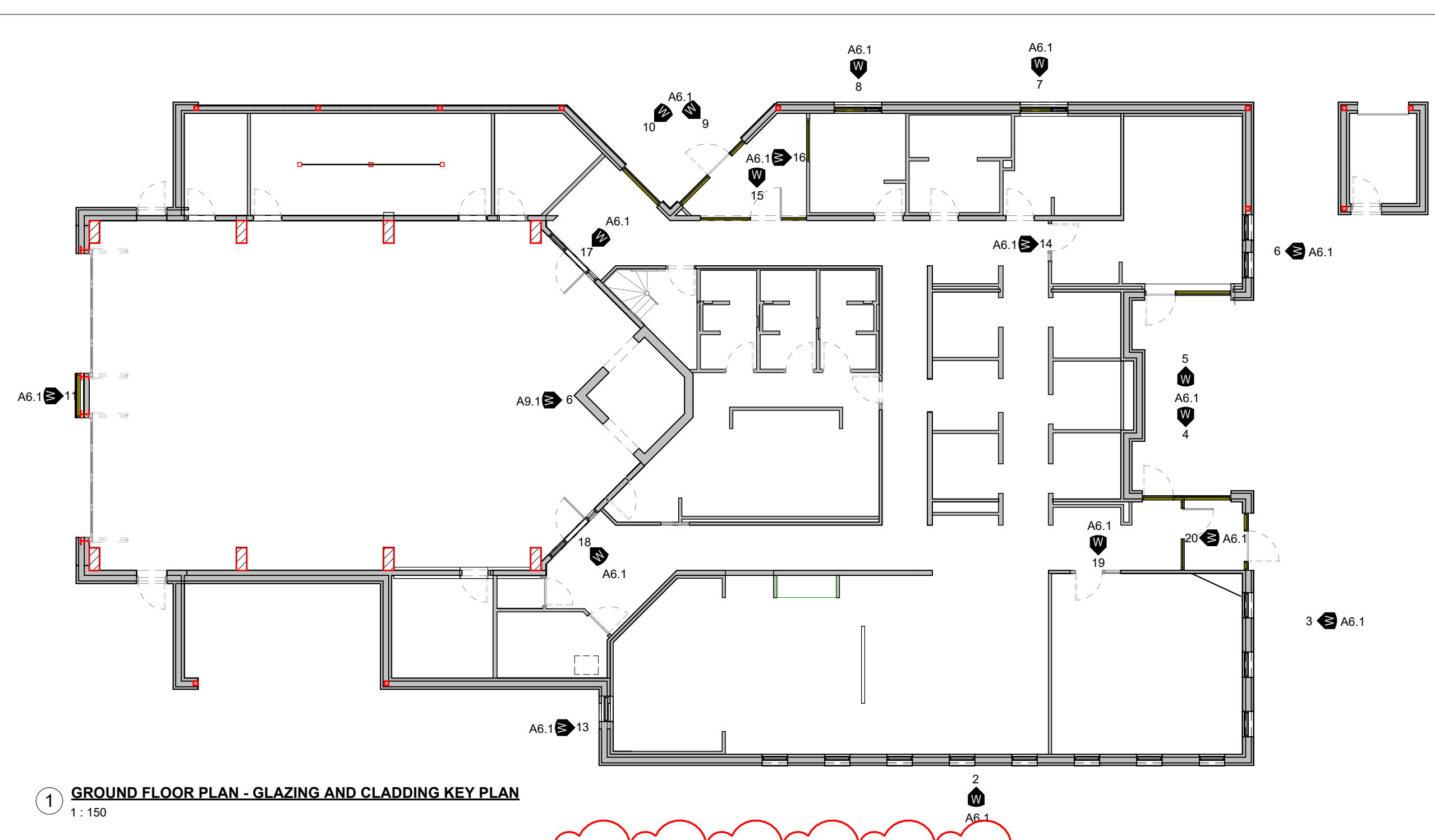
ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

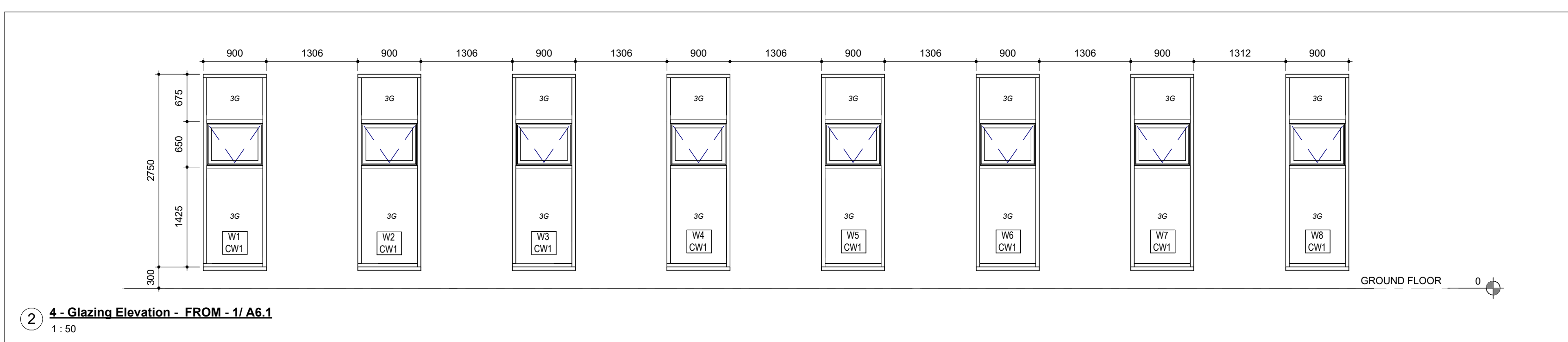
CLADDING, GLAZING AND LOUVER ELEVATIONS



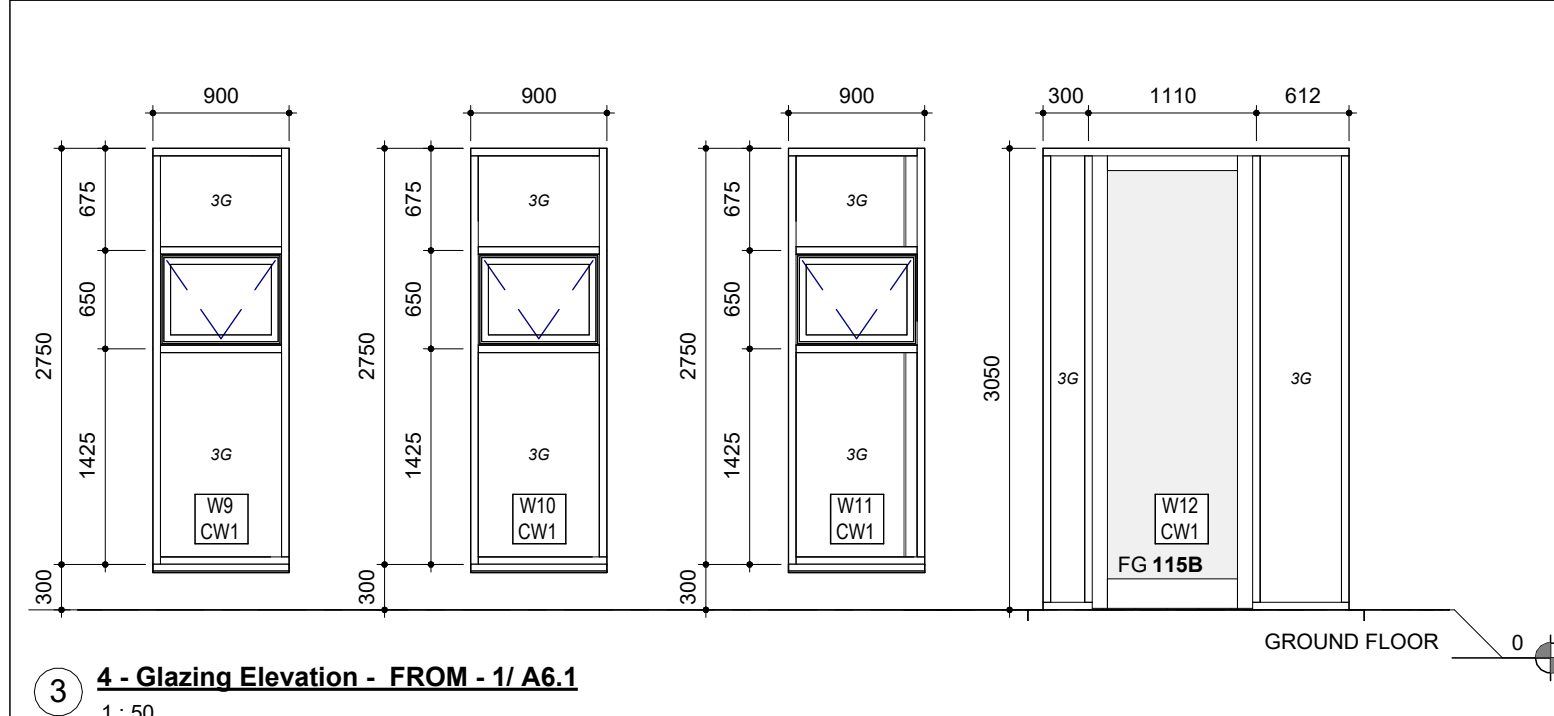
DATE	2021-11-24
SCALE	As indicated
DRAWN BY	SRL
DWG STATUS:	TENDER
PROJECT NO.	2104
DRAWING NO.	A6.1
REVISION	30



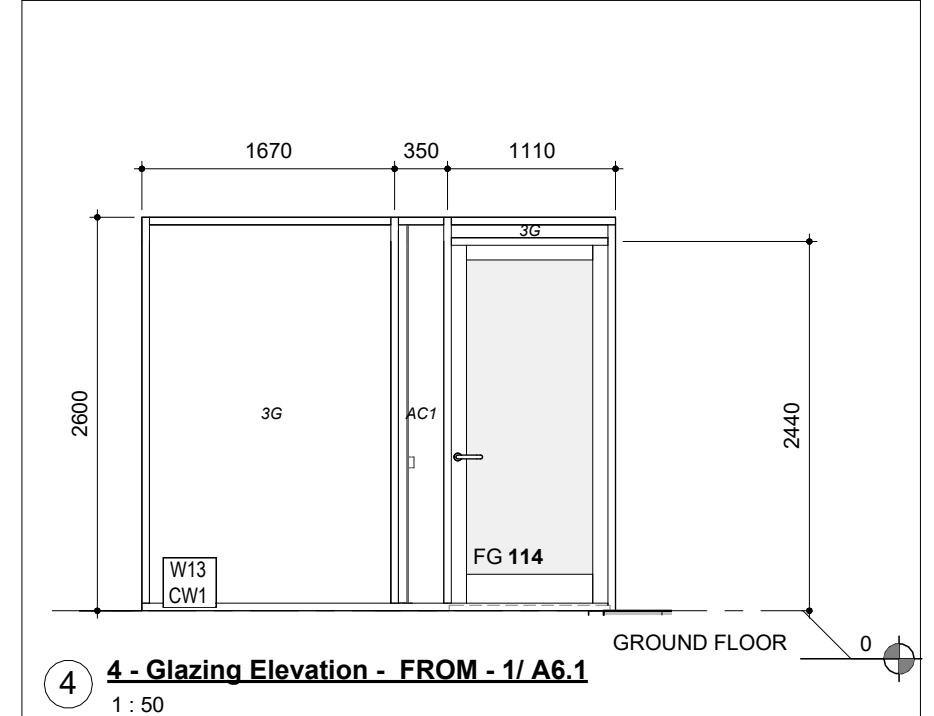
1 GROUND FLOOR PLAN - GLAZING AND CLADDING KEY PLAN
1:150



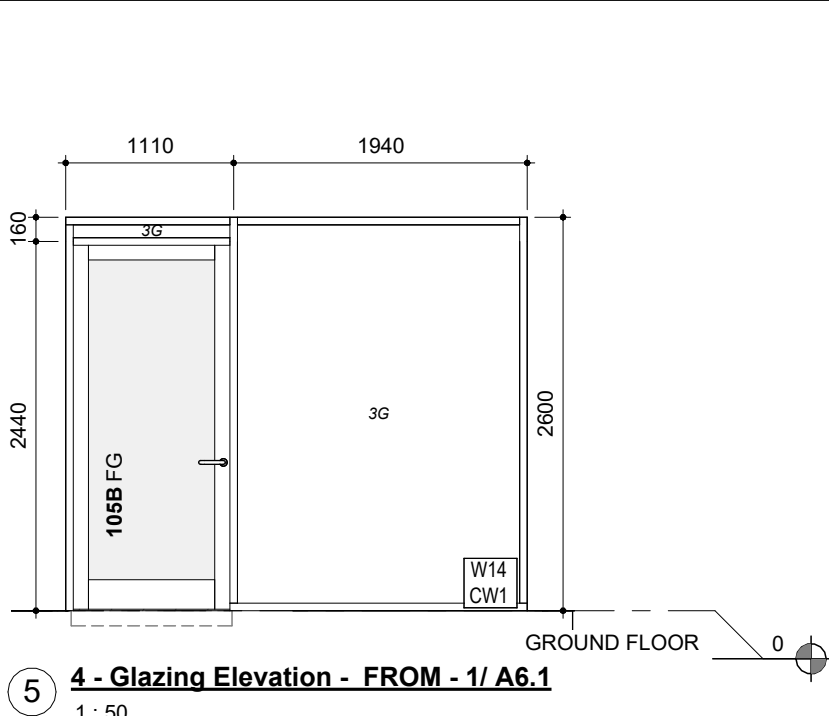
2 4 - Glazing Elevation - FROM - 1/ A6.1
1:50



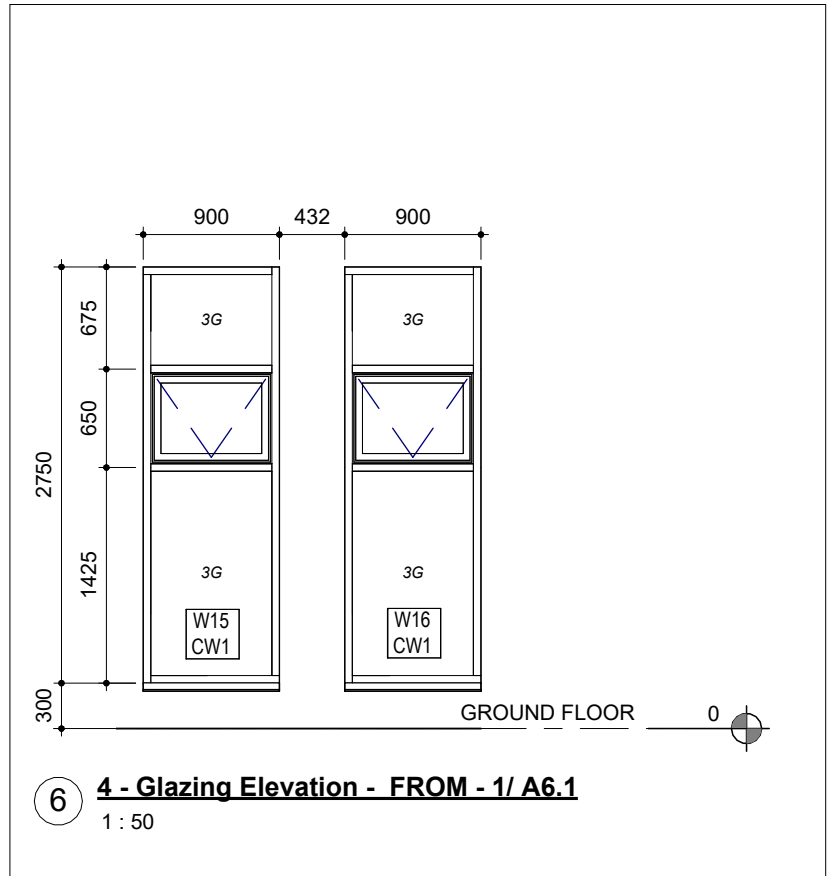
3 4 - Glazing Elevation - FROM - 1/ A6.1
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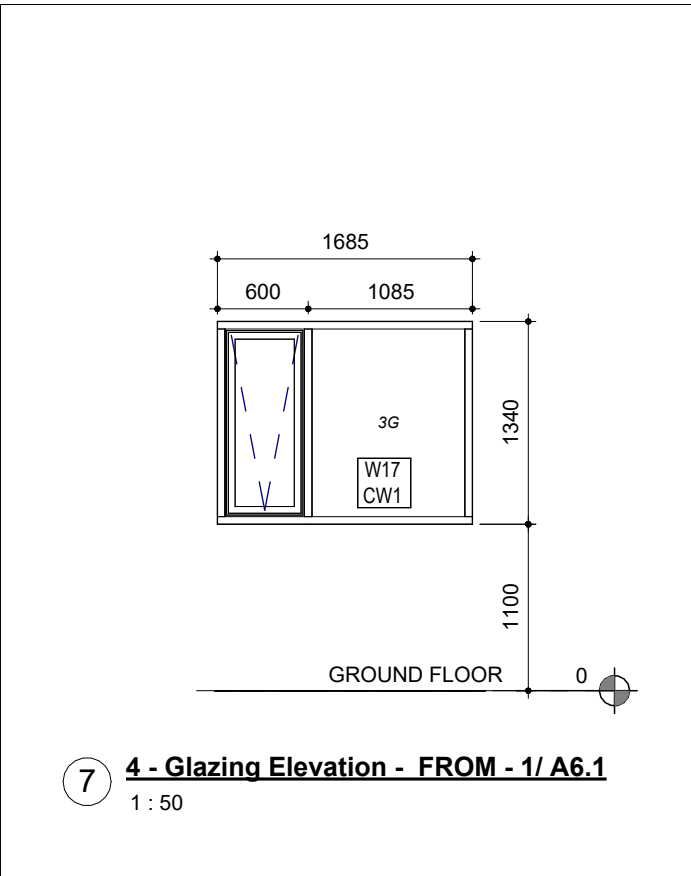
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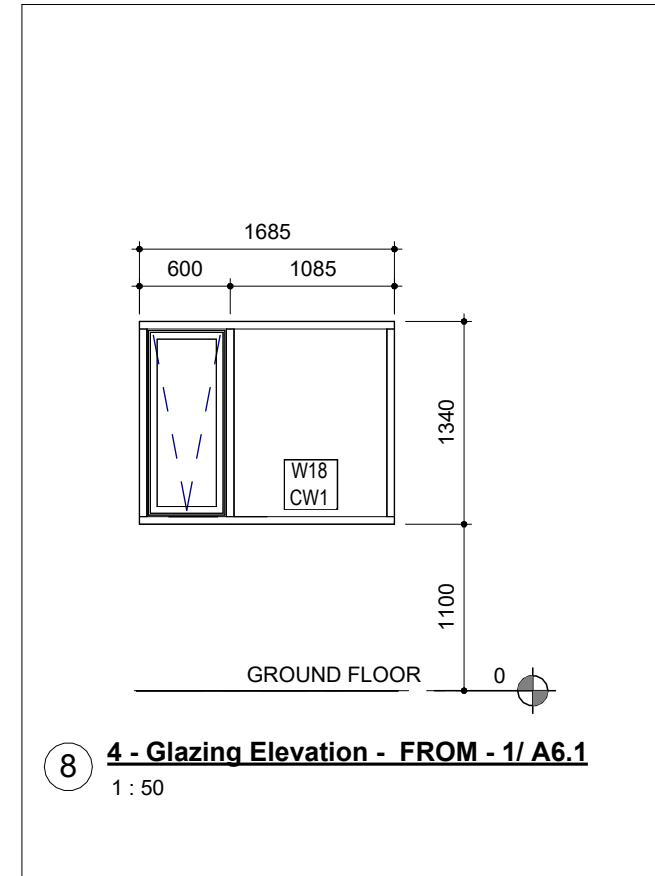
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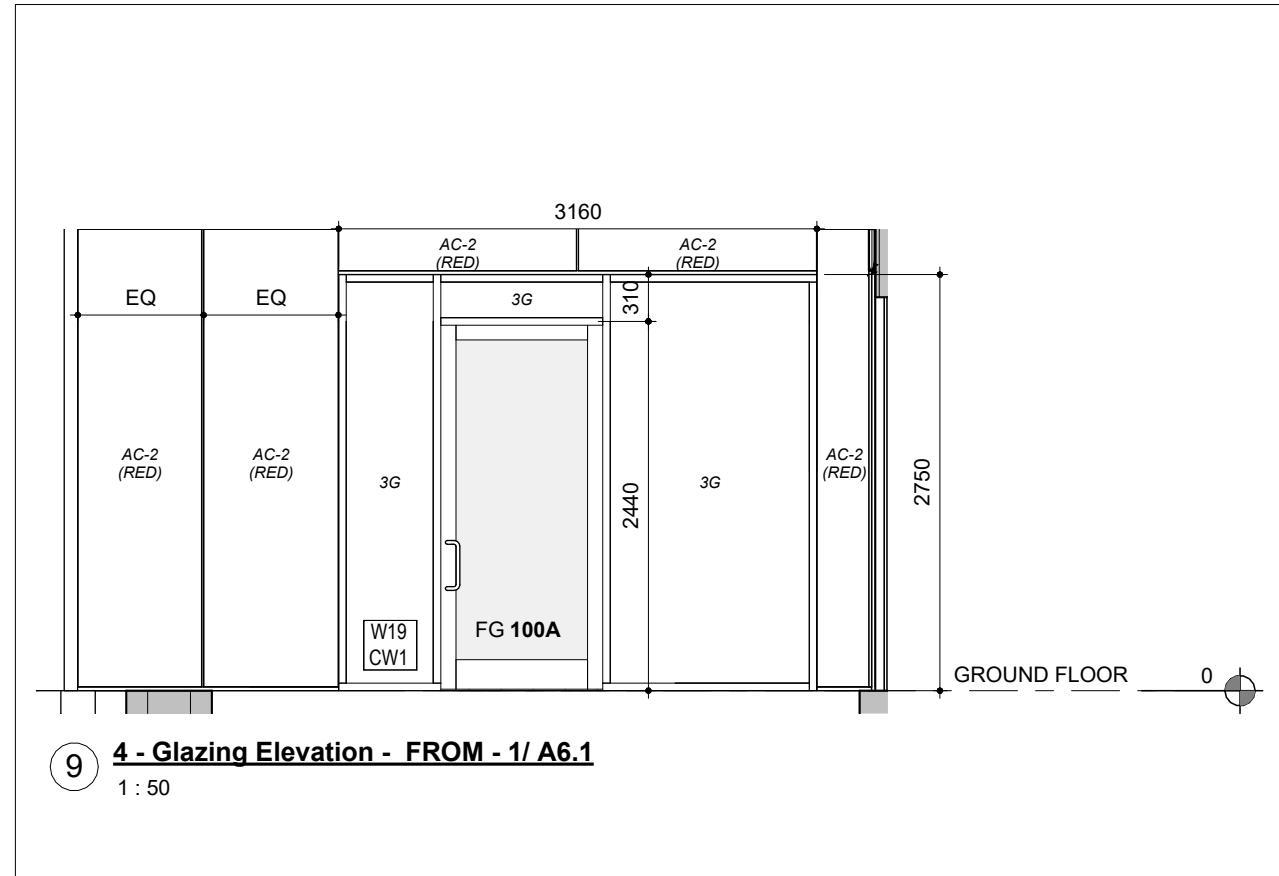
6 4 - Glazing Elevation - FROM - 1/ A6.1
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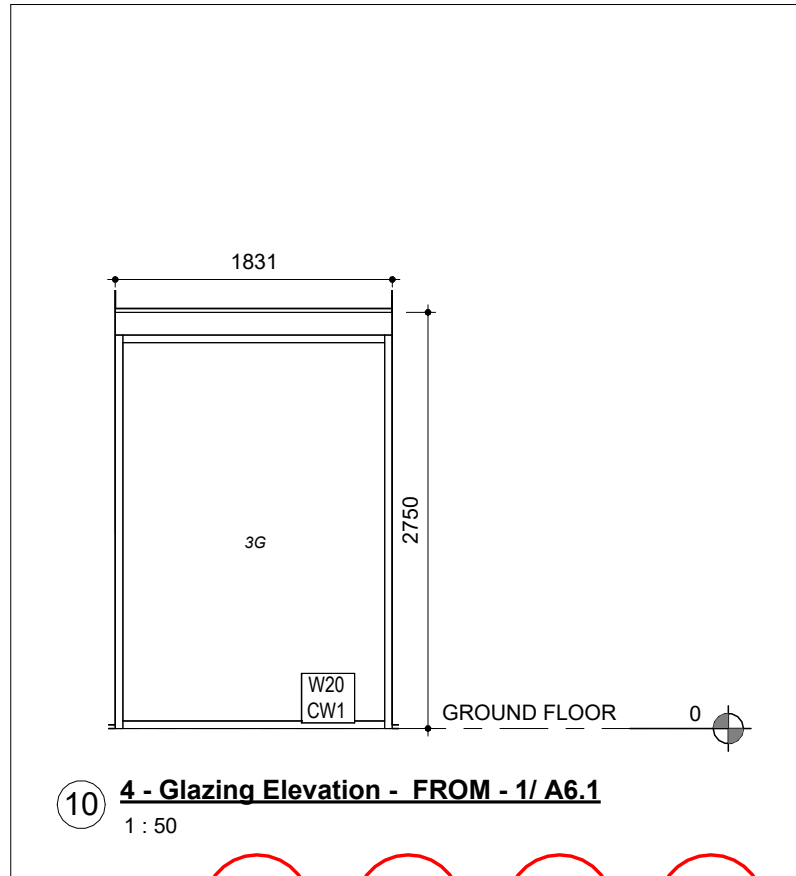
7 4 - Glazing Elevation - FROM - 1/ A6.1
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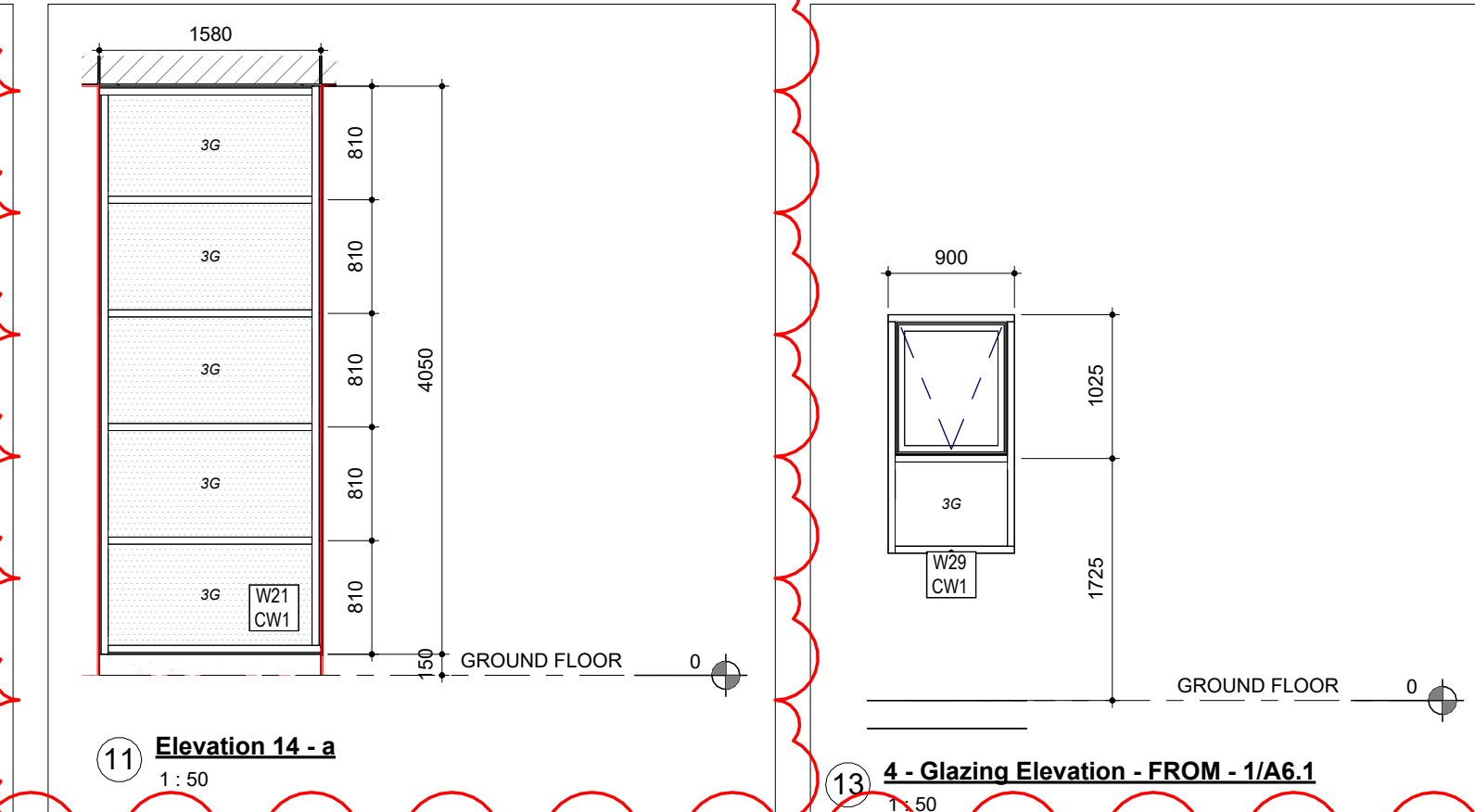
8 4 - Glazing Elevation - FROM - 1/ A6.1
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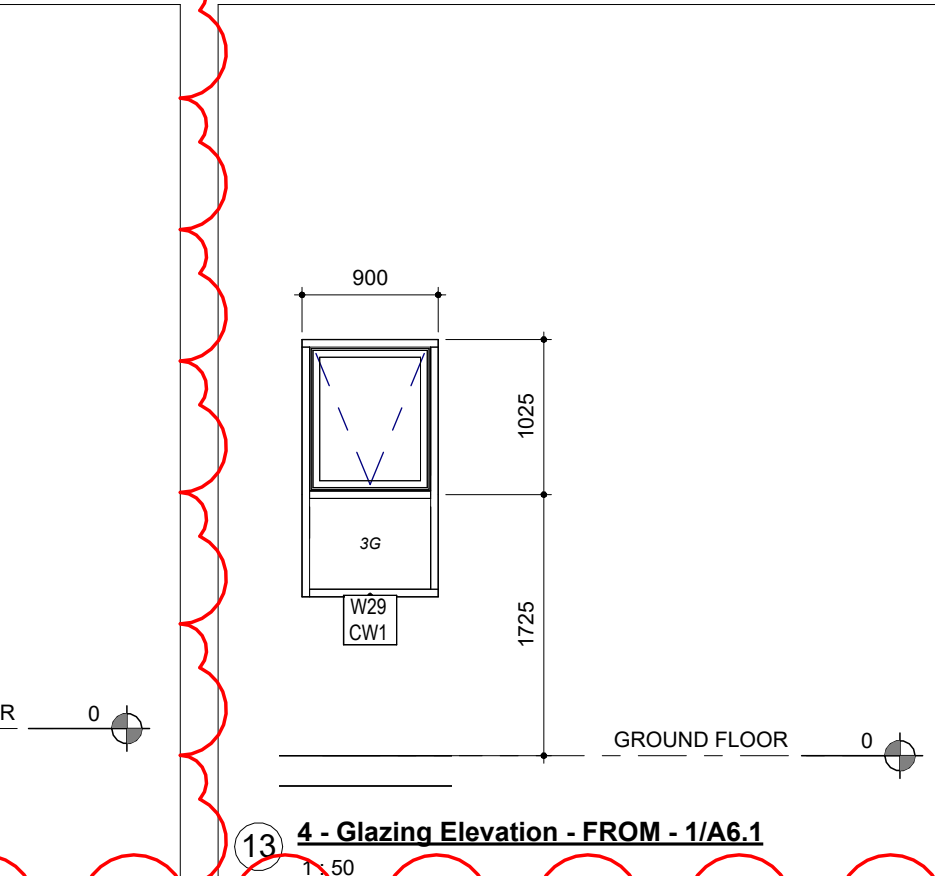
9 4 - Glazing Elevation - FROM - 1/ A6.1
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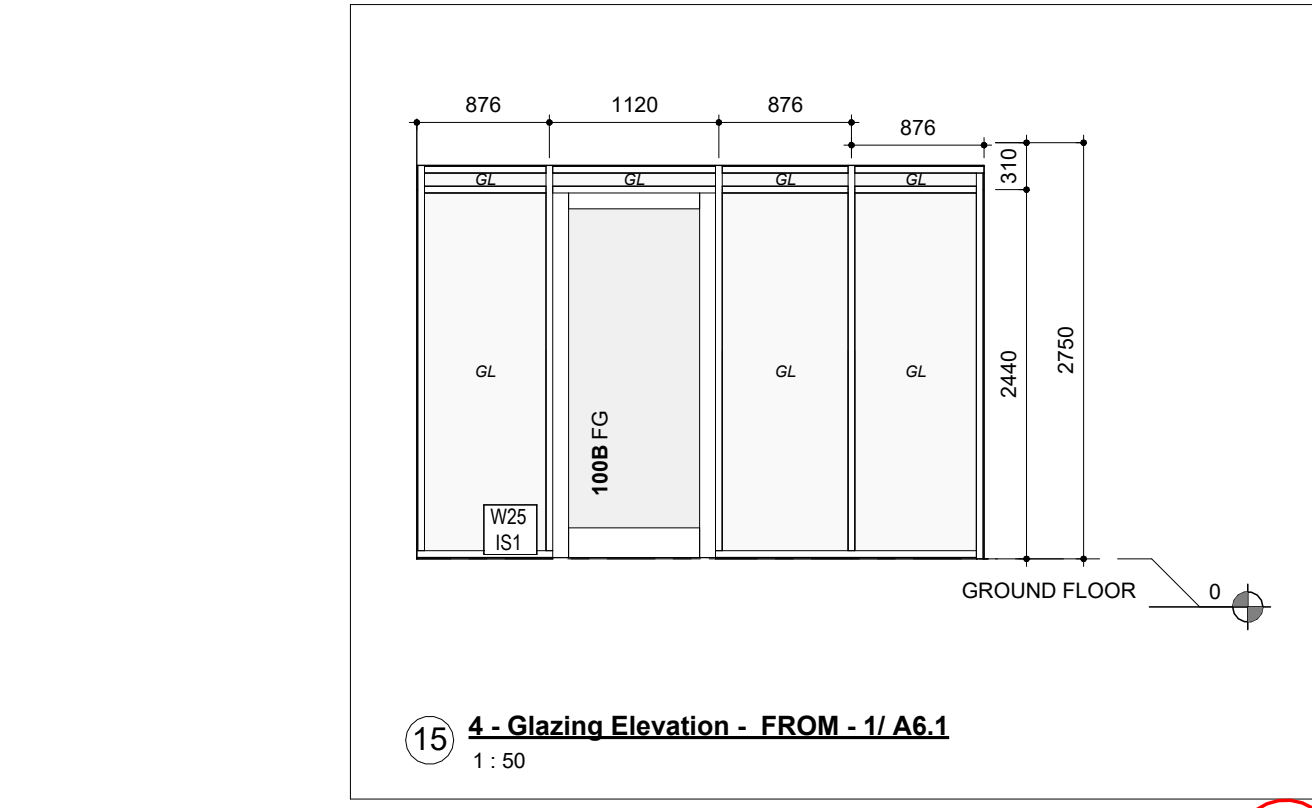
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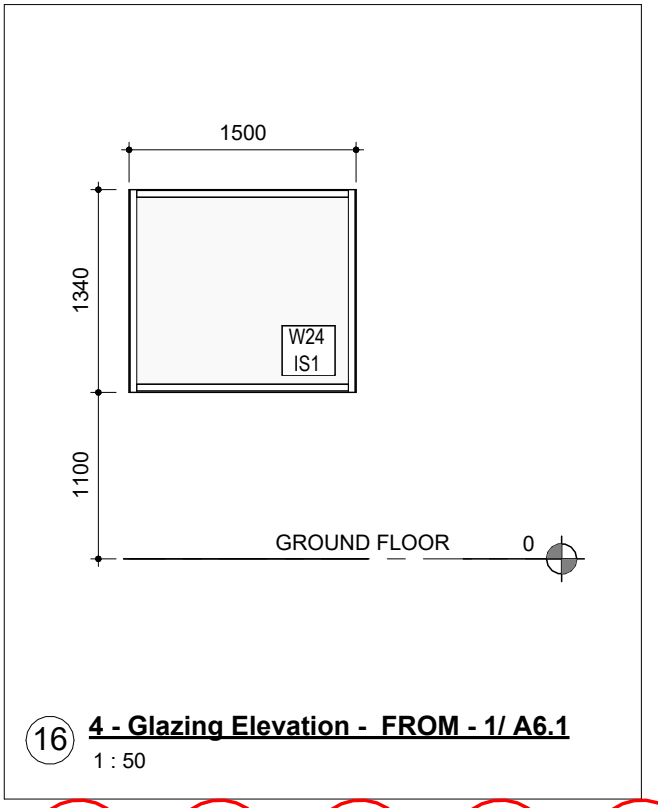
11 Elevation 14 - a
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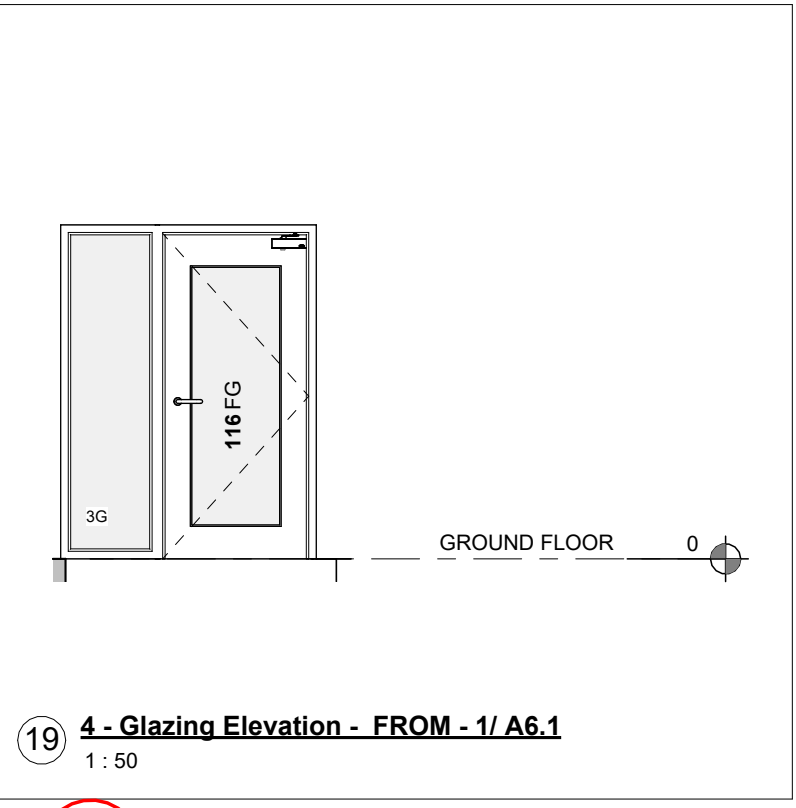
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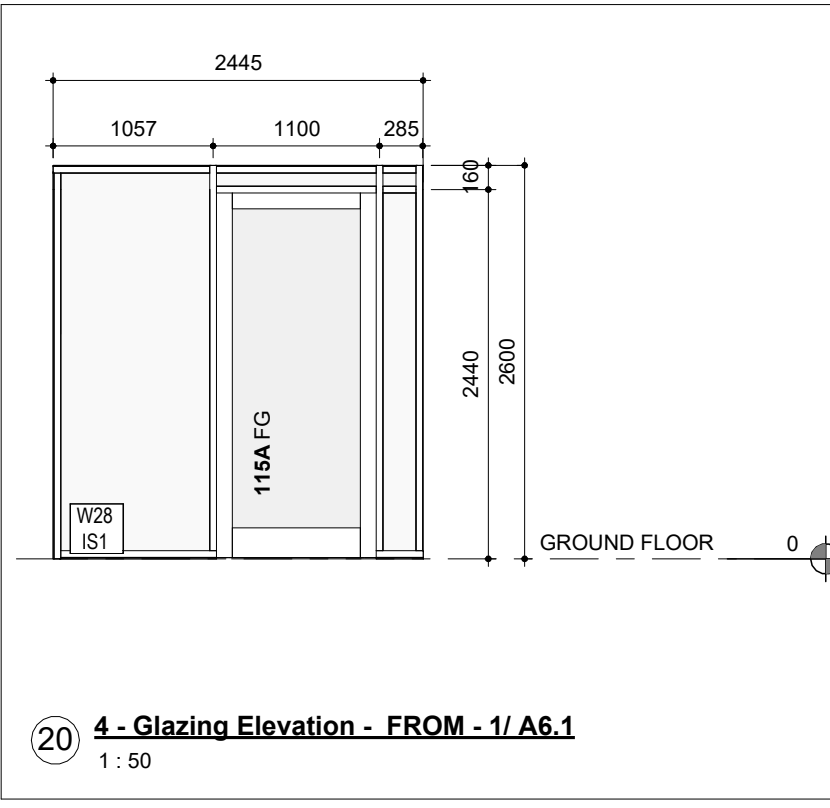
15 4 - Glazing Elevation - FROM - 1/ A6.1
1:50



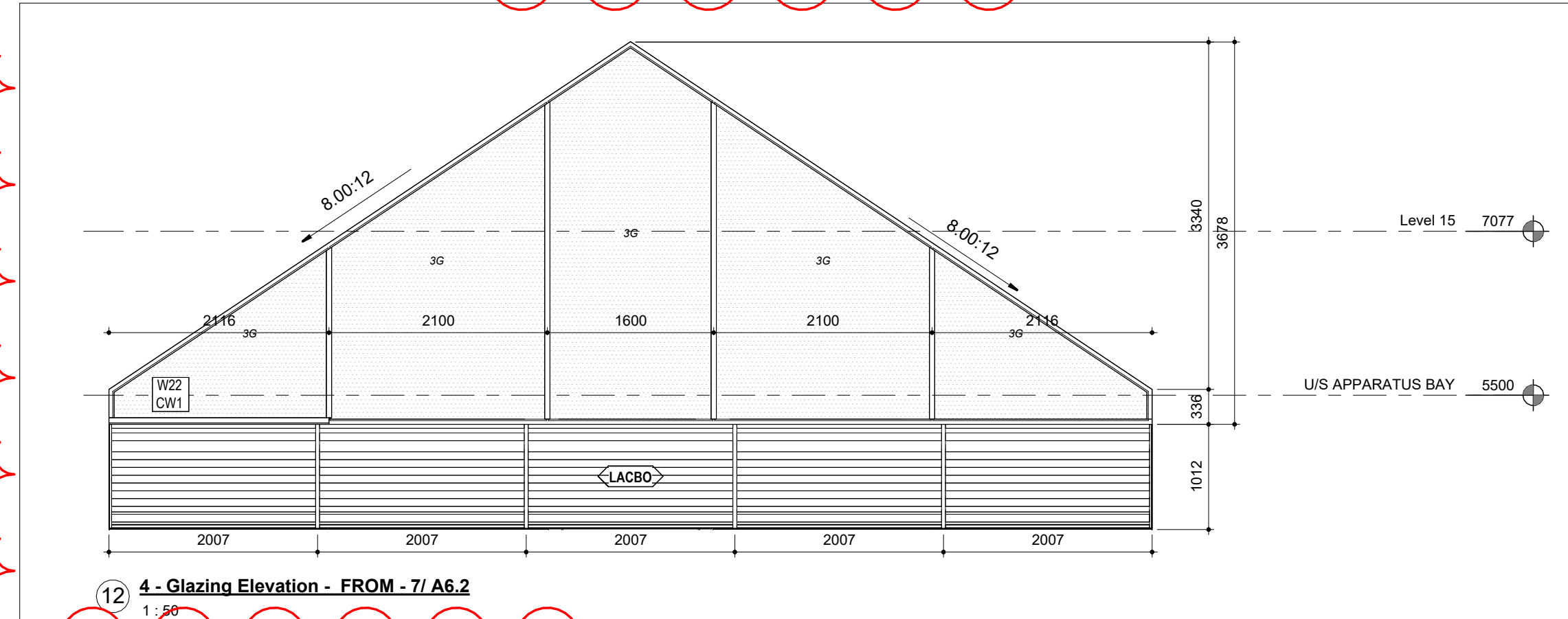
16 4 - Glazing Elevation - FROM - 1/ A6.1
1:50



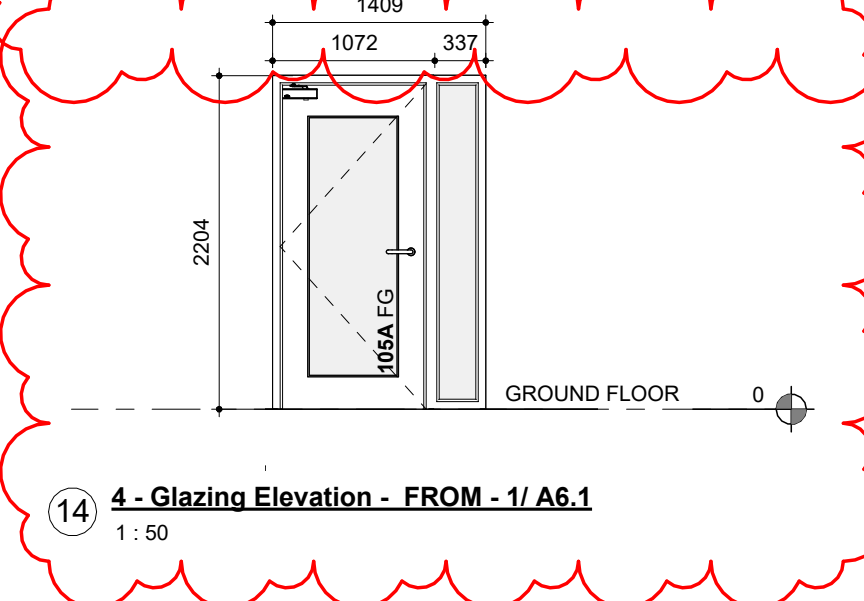
19 4 - Glazing Elevation - FROM - 1/ A6.1
1:50



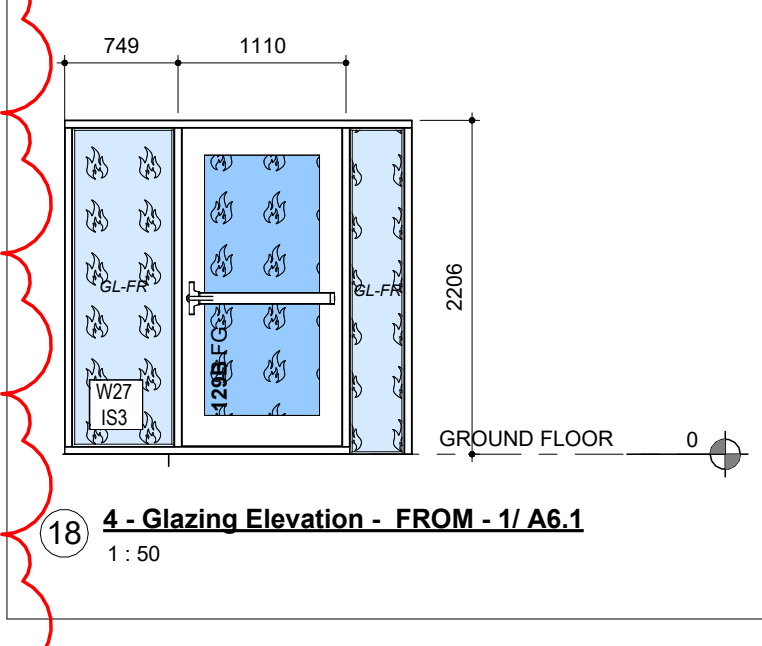
20 4 - Glazing Elevation - FROM - 1/ A6.1
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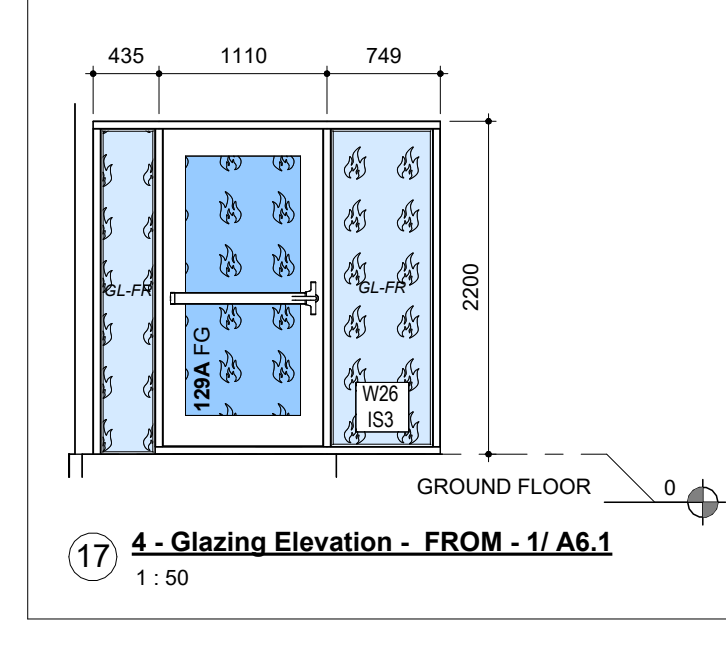
12 4 - Glazing Elevation - FROM - 7/ A6.2
1:50



14 4 - Glazing Elevation - FROM - 1/ A6.1
1:50



18 4 - Glazing Elevation - FROM - 1/ A6.1
1:50



17 4 - Glazing Elevation - FROM - 1/ A6.1
1:50

S-04 - Schedule - Window - Basis of Design

TYPE	SPECIFIED BASIS OF DESIGN
W1	ALUMICOR TW2200 OR EQUIVALENT
W2	ALUMICOR TW2200 OR EQUIVALENT
W3	ALUMICOR TW2200 OR EQUIVALENT
W4	ALUMICOR TW2200 OR EQUIVALENT
W5	ALUMICOR TW2200 OR EQUIVALENT
W6	ALUMICOR TW2200 OR EQUIVALENT
W7	ALUMICOR TW2200 OR EQUIVALENT
W8	ALUMICOR TW2200 OR EQUIVALENT
W9	ALUMICOR TW2200 OR EQUIVALENT
W10	ALUMICOR TW2200 OR EQUIVALENT
W11	ALUMICOR TW2200 OR EQUIVALENT
W12	ALUMICOR TW2200 OR EQUIVALENT
W13	ALUMICOR TW2200 OR EQUIVALENT
W14	ALUMICOR TW2200 OR EQUIVALENT
W15	ALUMICOR TW2200 OR EQUIVALENT
W16	ALUMICOR TW2200 OR EQUIVALENT
W17	ALUMICOR TW2200 OR EQUIVALENT
W18	ALUMICOR TW2200 OR EQUIVALENT
W19	ALUMICOR TW2200 OR EQUIVALENT
W20	ALUMICOR TW2200 OR EQUIVALENT
W21	ALUMICOR TW2200 OR EQUIVALENT
W22	ALUMICOR TW2200 OR EQUIVALENT
W24	BASIS OF DESIGN KAWNEER 451 OR EQUIVALENT
W25	BASIS OF DESIGN KAWNEER 451 OR EQUIVALENT
W26	BASIS OF DESIGN FLEMING TYPE 'D' FRAME OR EQUIVALENT
W27	BASIS OF DESIGN FLEMING TYPE 'D' FRAME OR EQUIVALENT
W28	BASIS OF DESIGN KAWNEER 451 OR EQUIVALENT
W29	ALUMICOR TW2200 OR EQUIVALENT
W30	ALUMICOR TW2200 OR EQUIVALENT

2024-09-09 4:08:12 PM

NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
16	DD CLIENT REVIEW	2023-07-24
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFP/Q	2023-10-19
24	ISSUED FOR CLASS A	2024-02-18
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

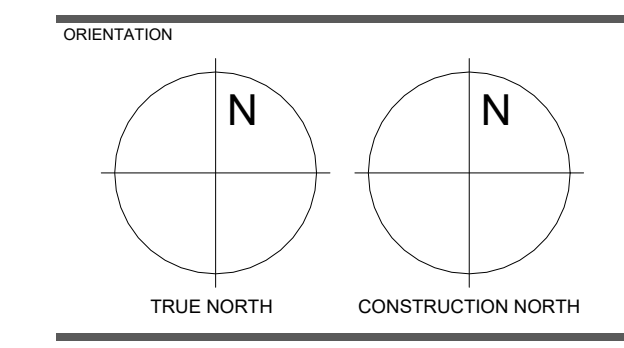
9511 WESTON ROAD, VAUGHAN

CLIENT: **VAUGHAN**

ARCHITECT: **THOMASBROWNARCHITECTS**
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

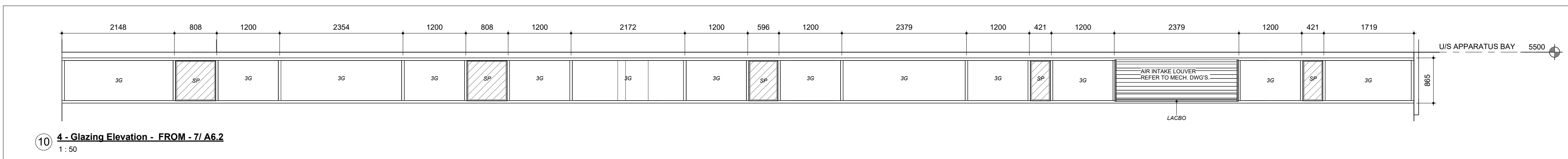
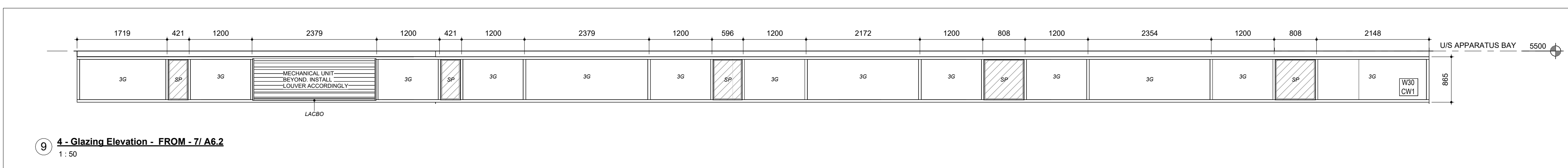
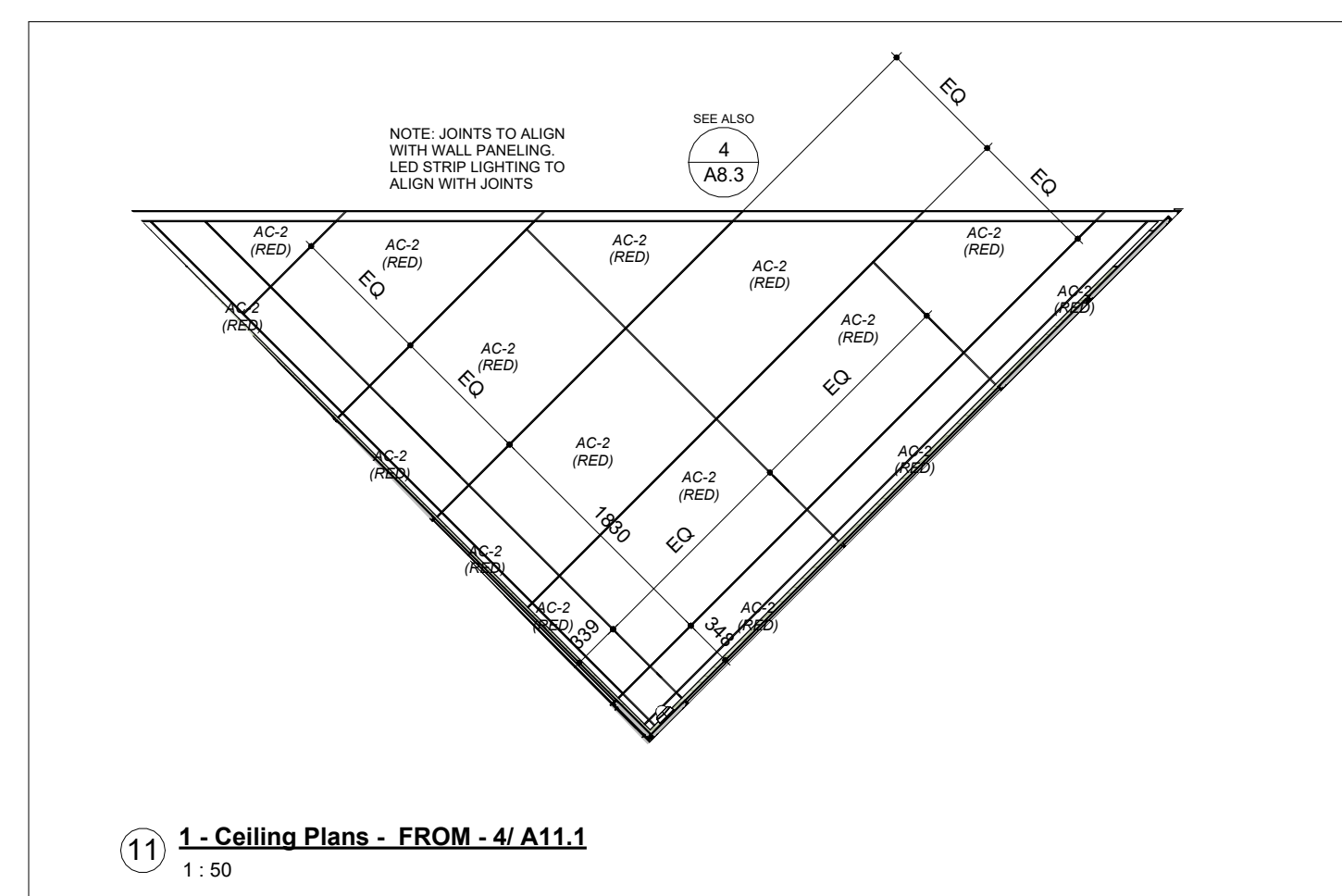
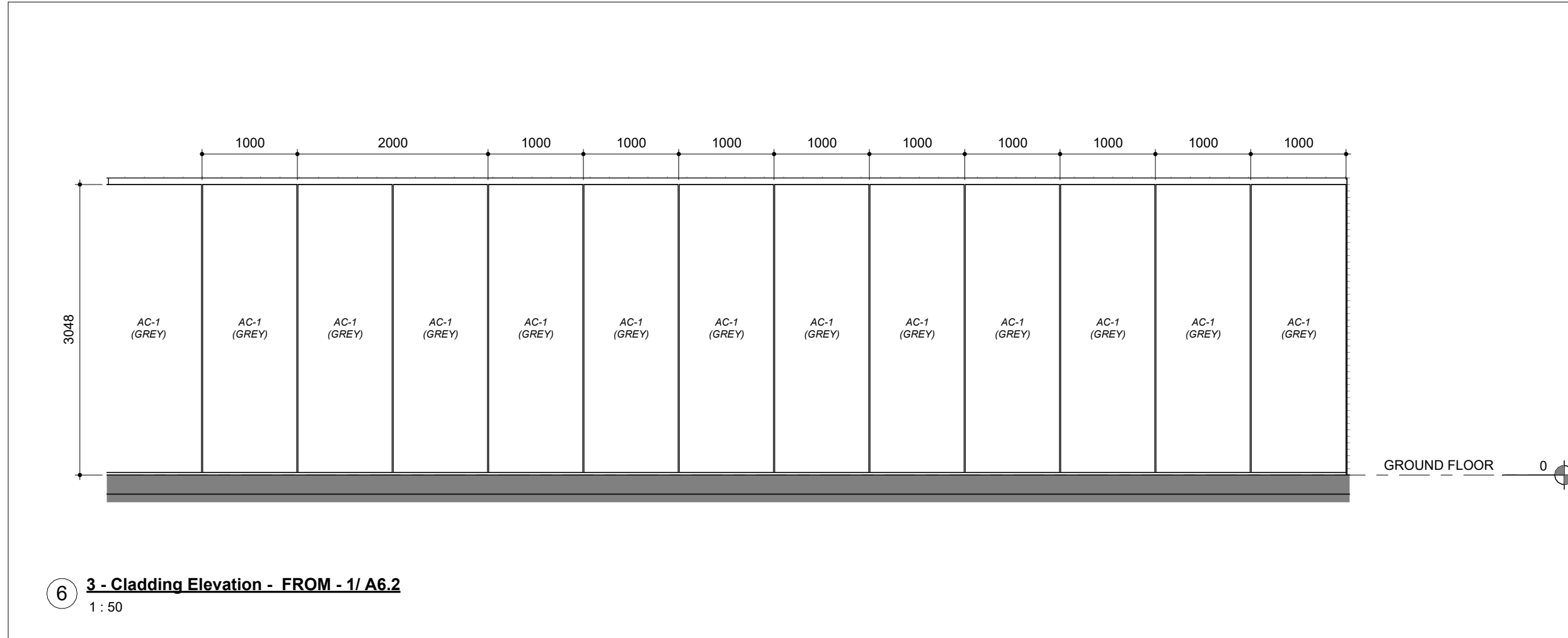
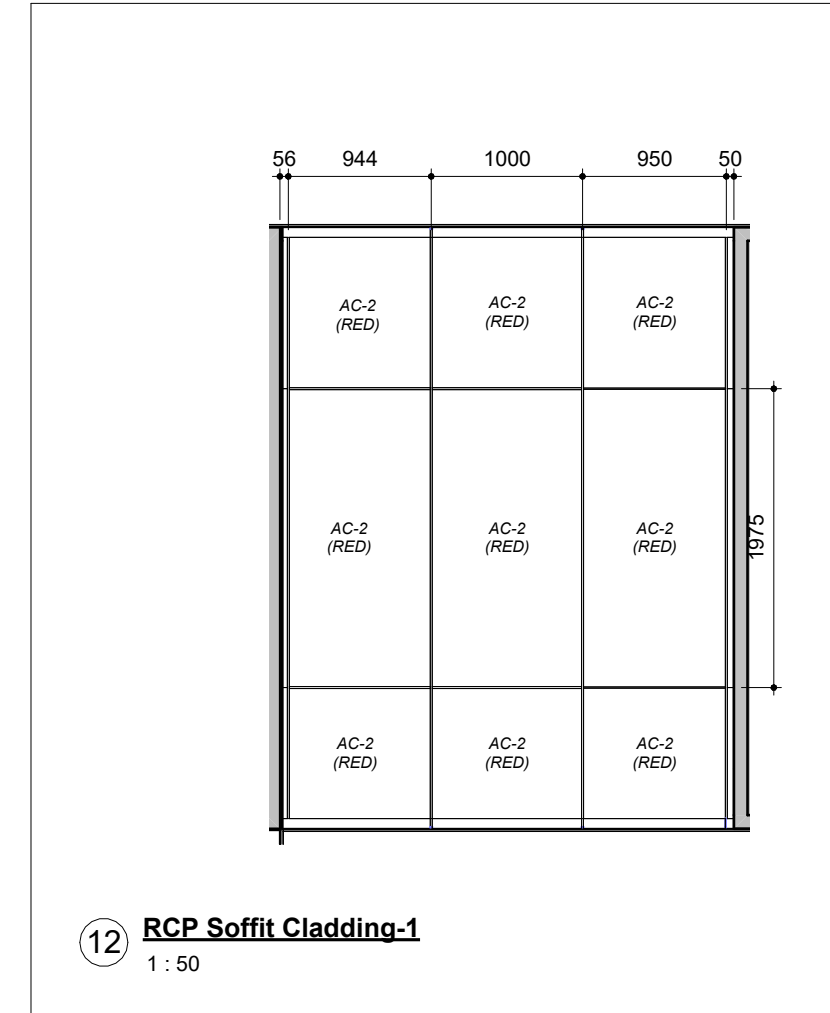
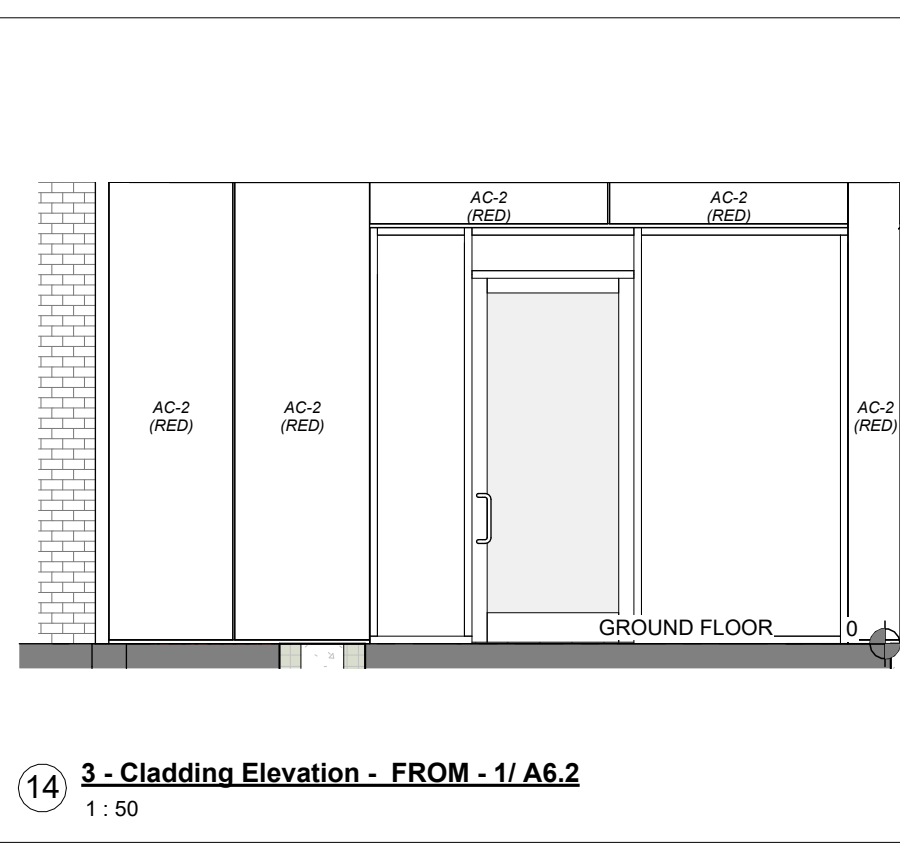
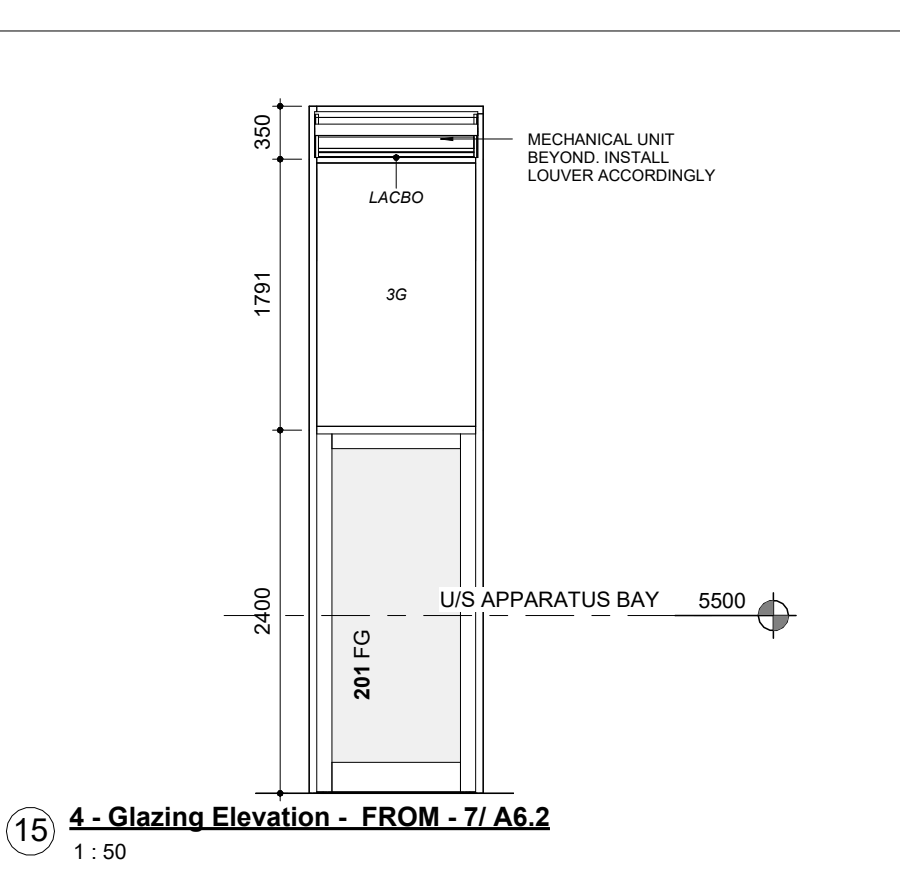
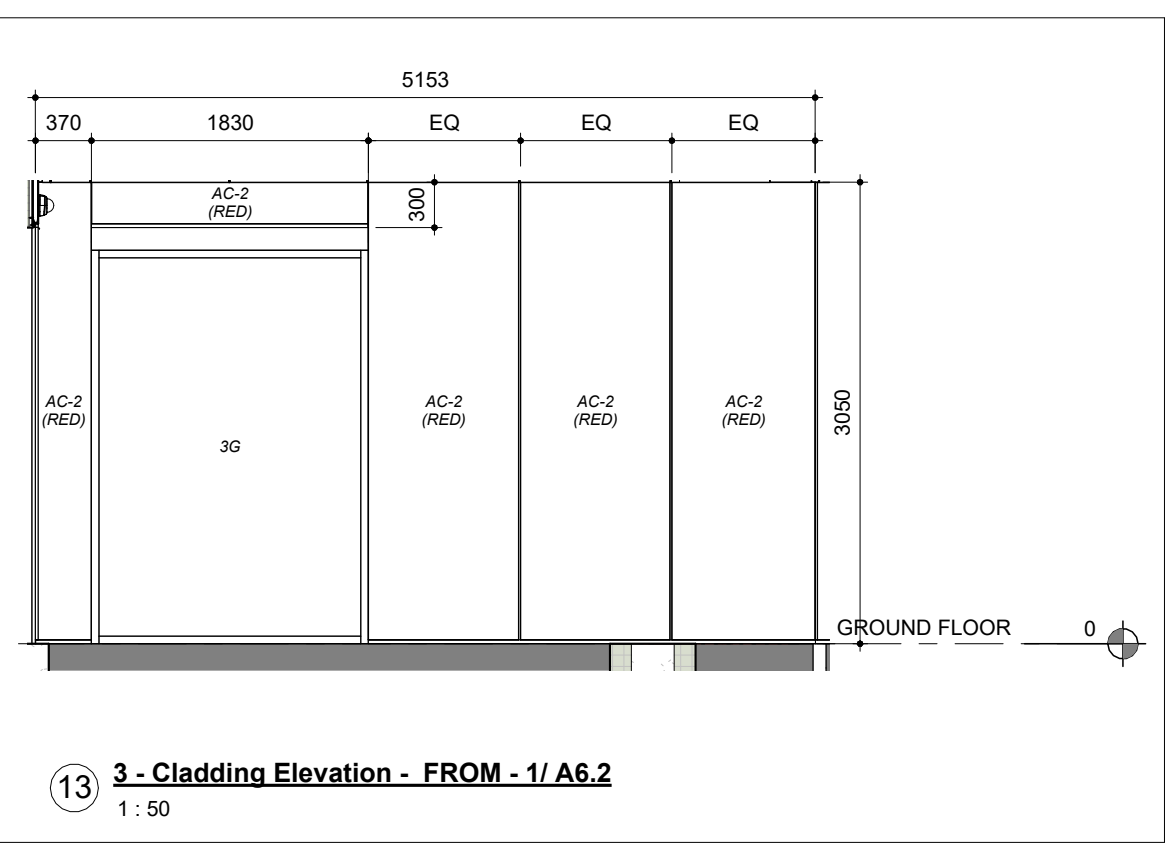
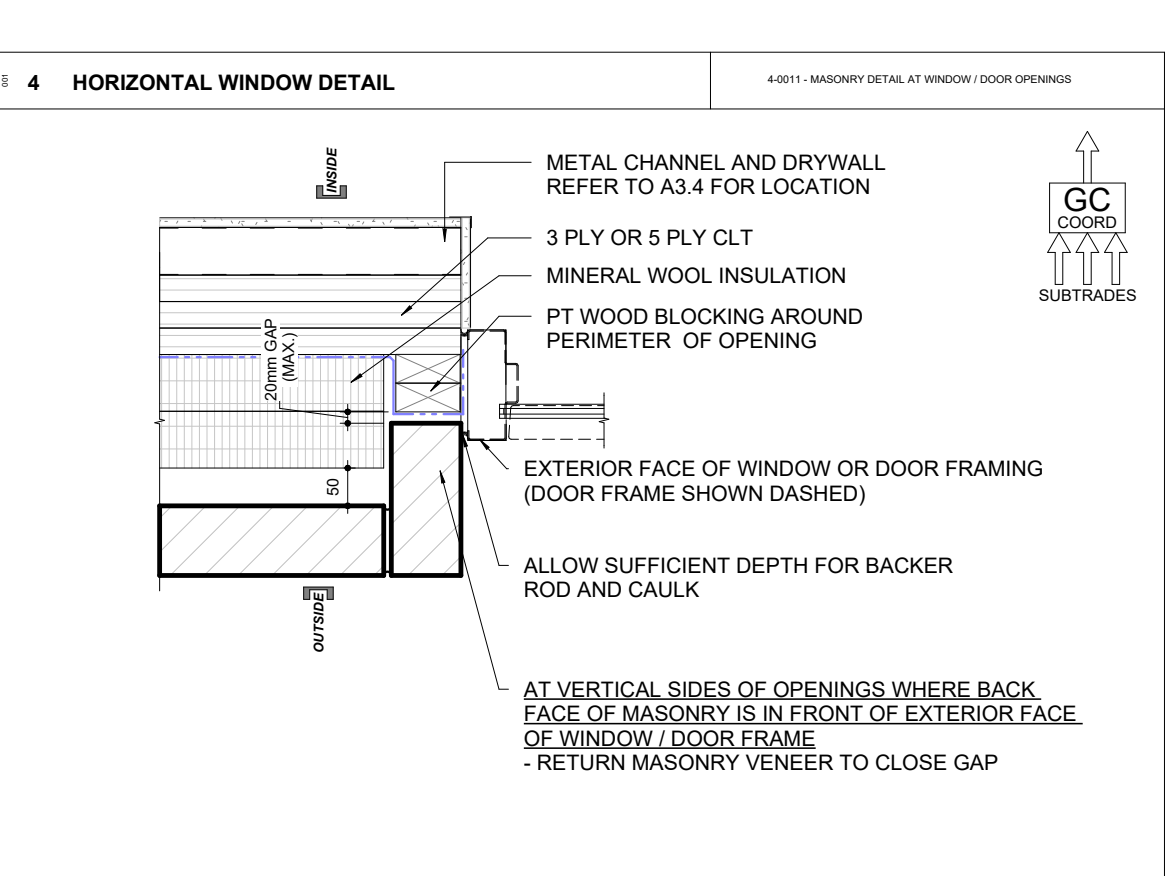
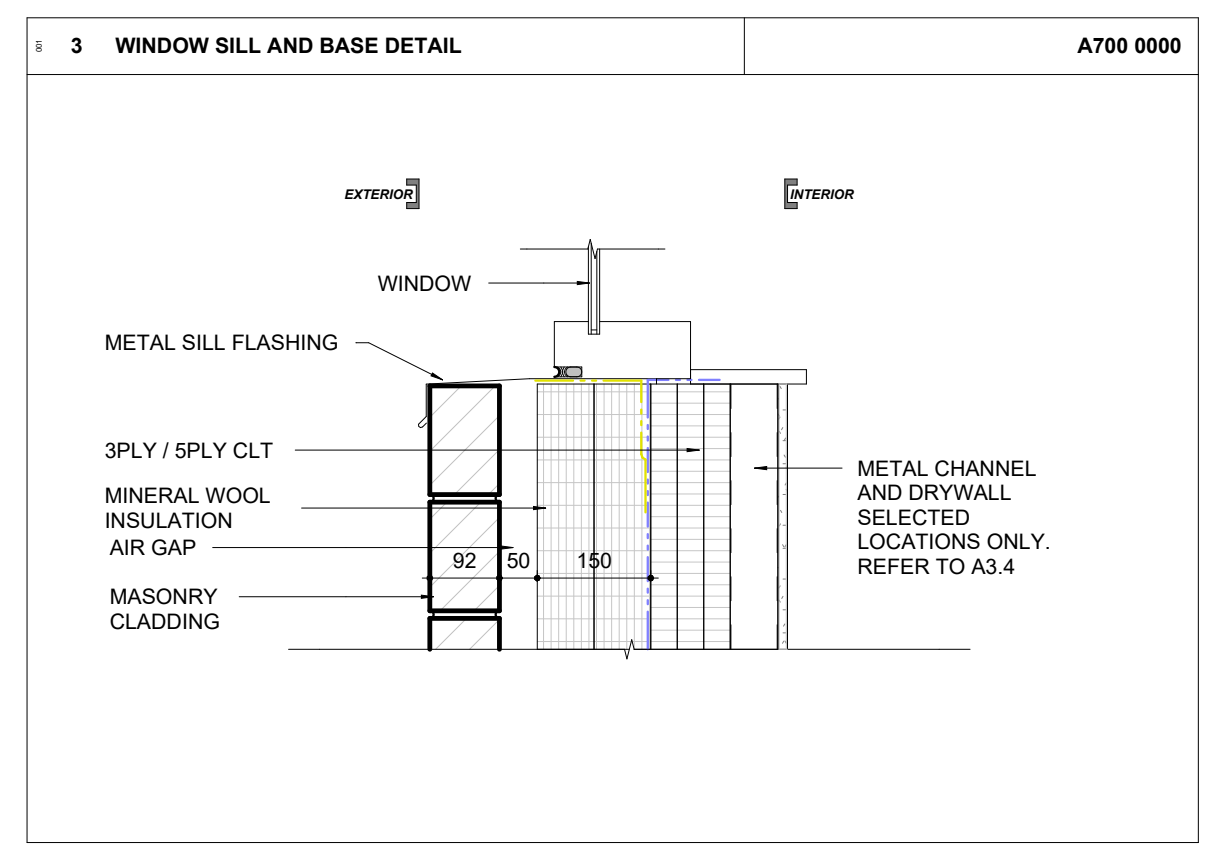
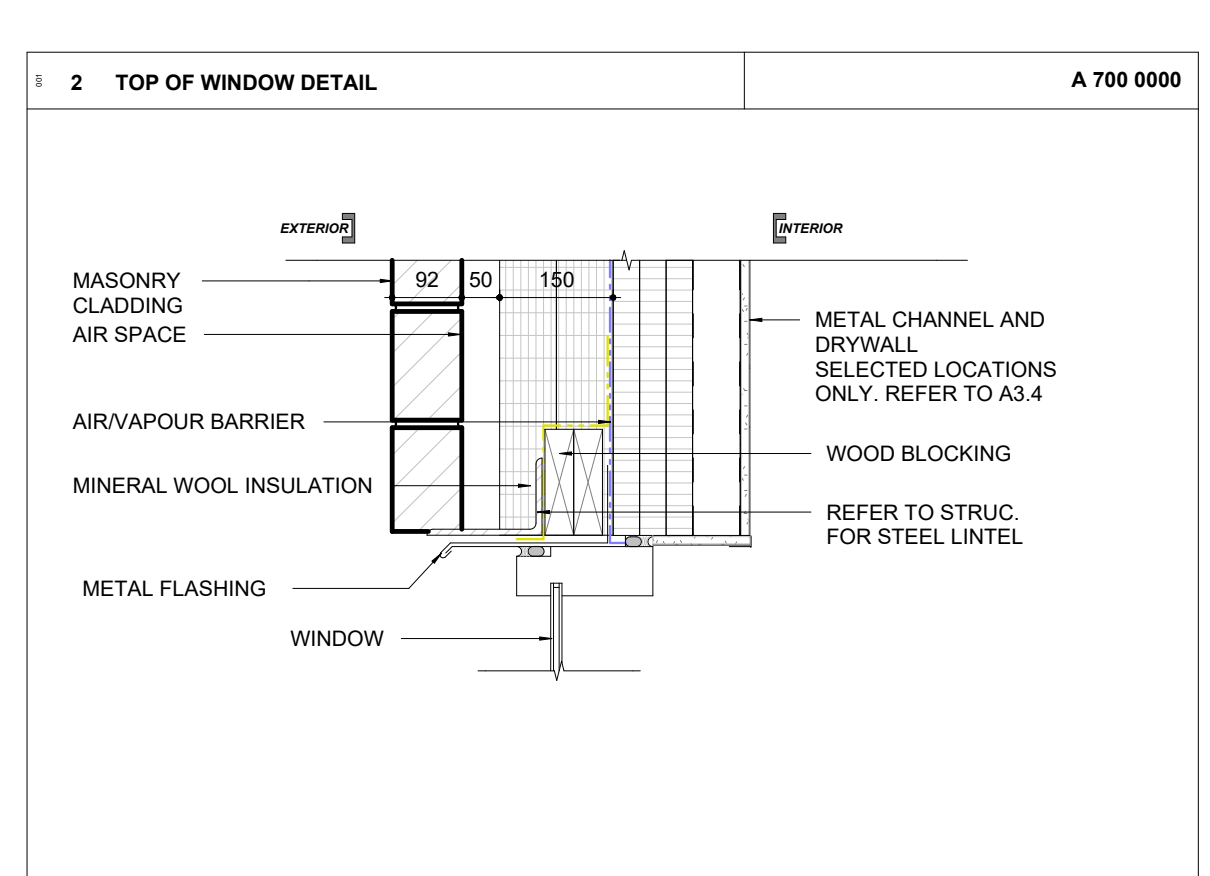
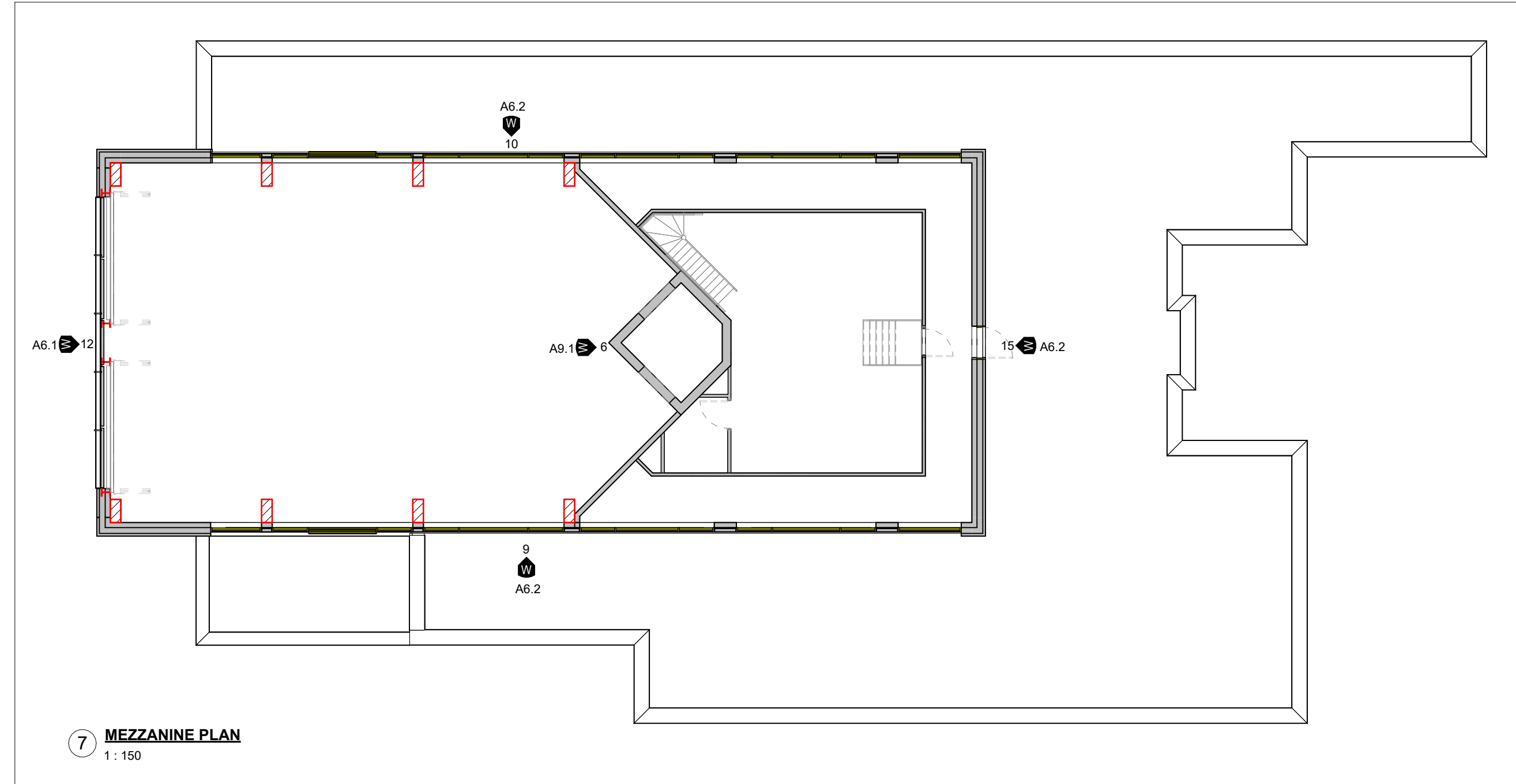
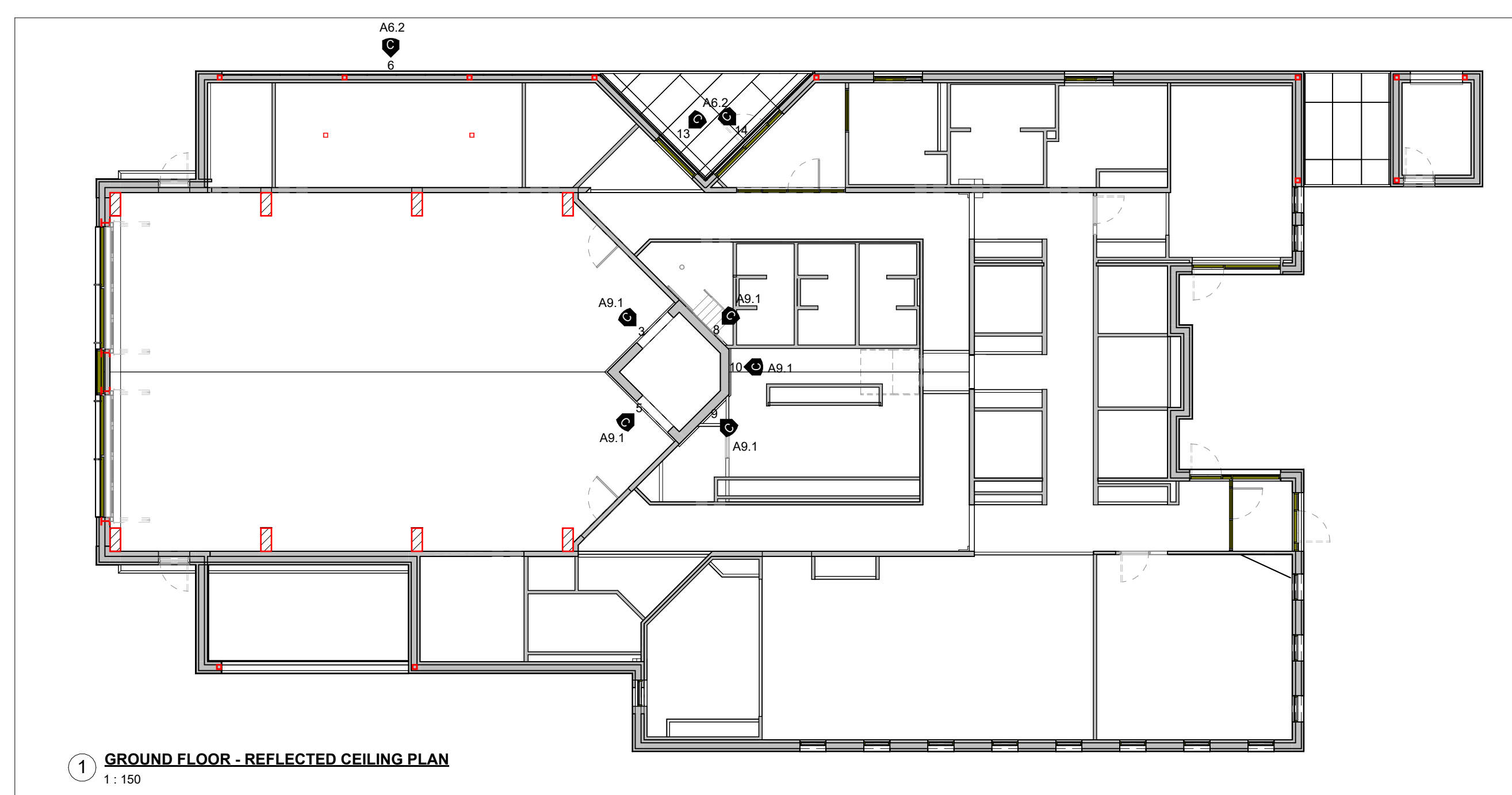
PROFESSIONAL SEAL

CLADDING, GLAZING AND LOUVER ELEVATIONS



DATE	2021-11-24
SCALE	As indicated
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A6.2
REVISION	30

2024-09-09 4:08:21 PM



NO.	ISSUE OR REVISION	DATE
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-18
26	T24-253 - IFT	2024-04-15
27	ADDENDUM #1	2024-05-09
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT:

CLIENT:

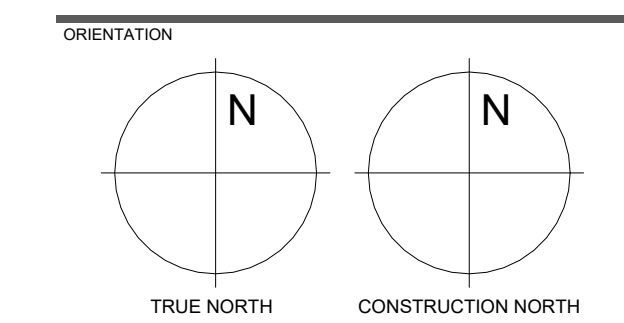


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ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

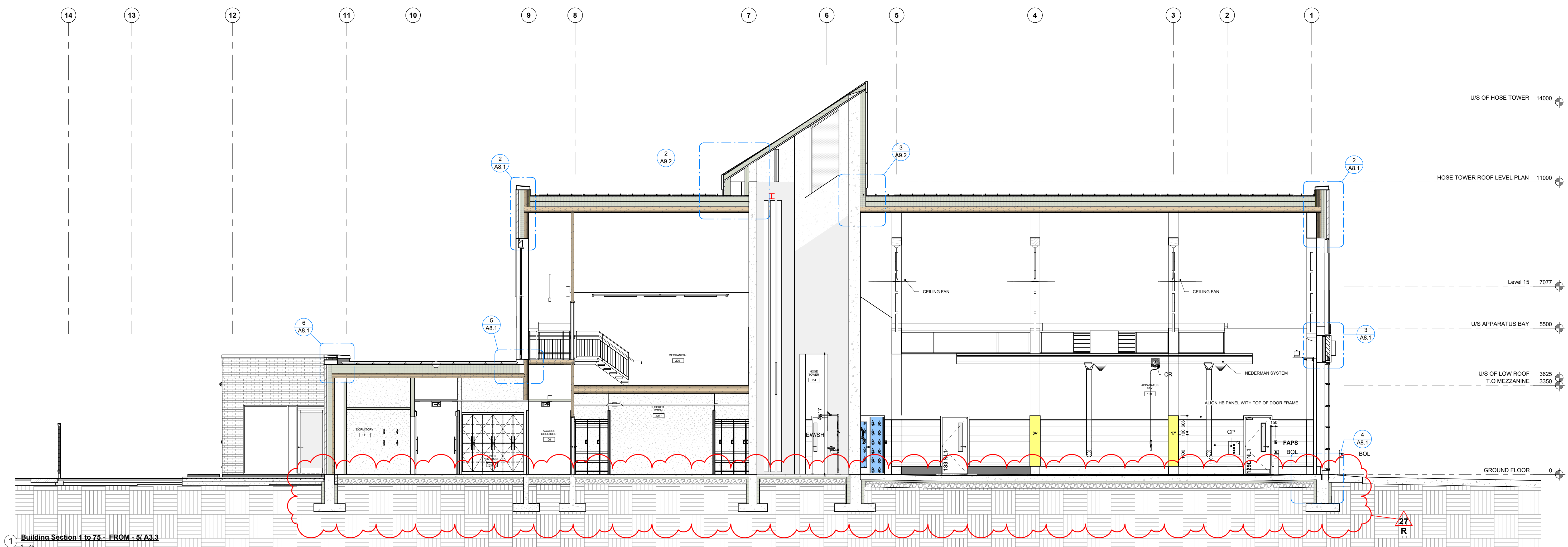
PROFESSIONAL SEAL

DWG TITLE
BUILDING SECTIONS

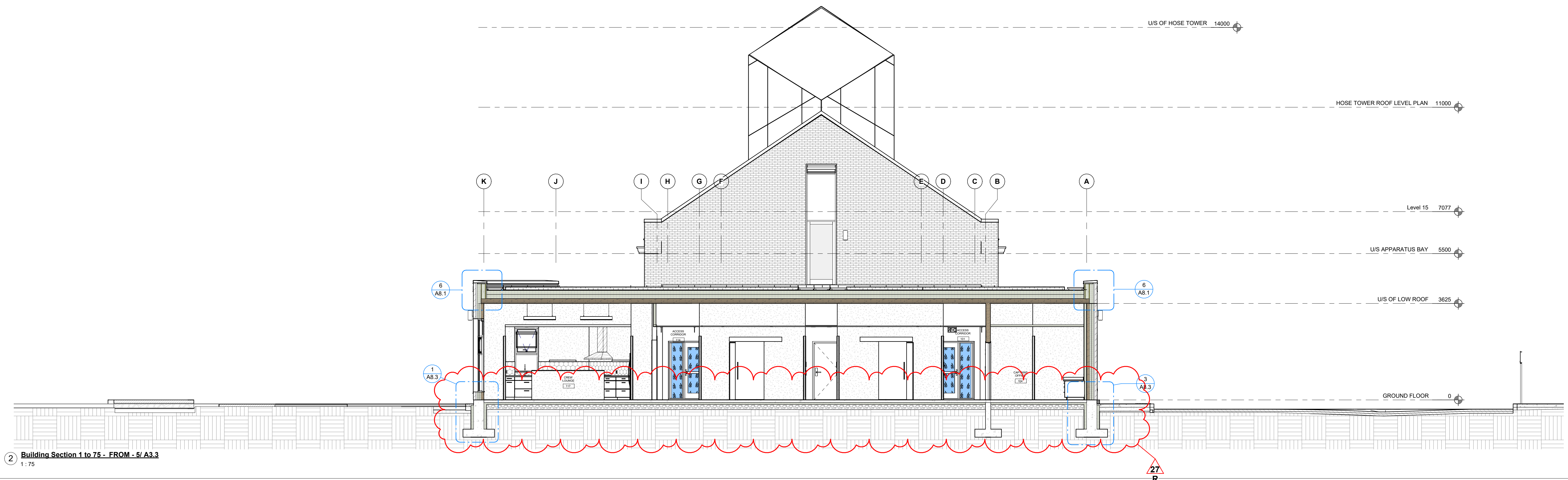


DATE	2021-11-24
SCALE	1 : 75
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A7.1
DRAWN BY	SRL
REVISION	30

2024-09-09 4:08:47 PM



1 Building Section 1 to 75 - FROM - 5/ A3.3
1 : 75



2 Building Section 1 to 75 - FROM - 5/ A3.3
1 : 75

NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFP/Q	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
27	ADDENDUM #1	2024-05-09
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT :

CLIENT :

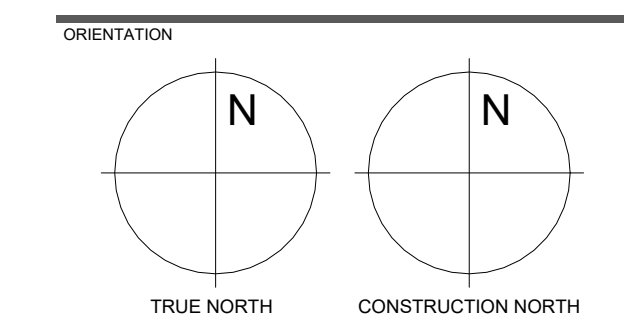


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ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

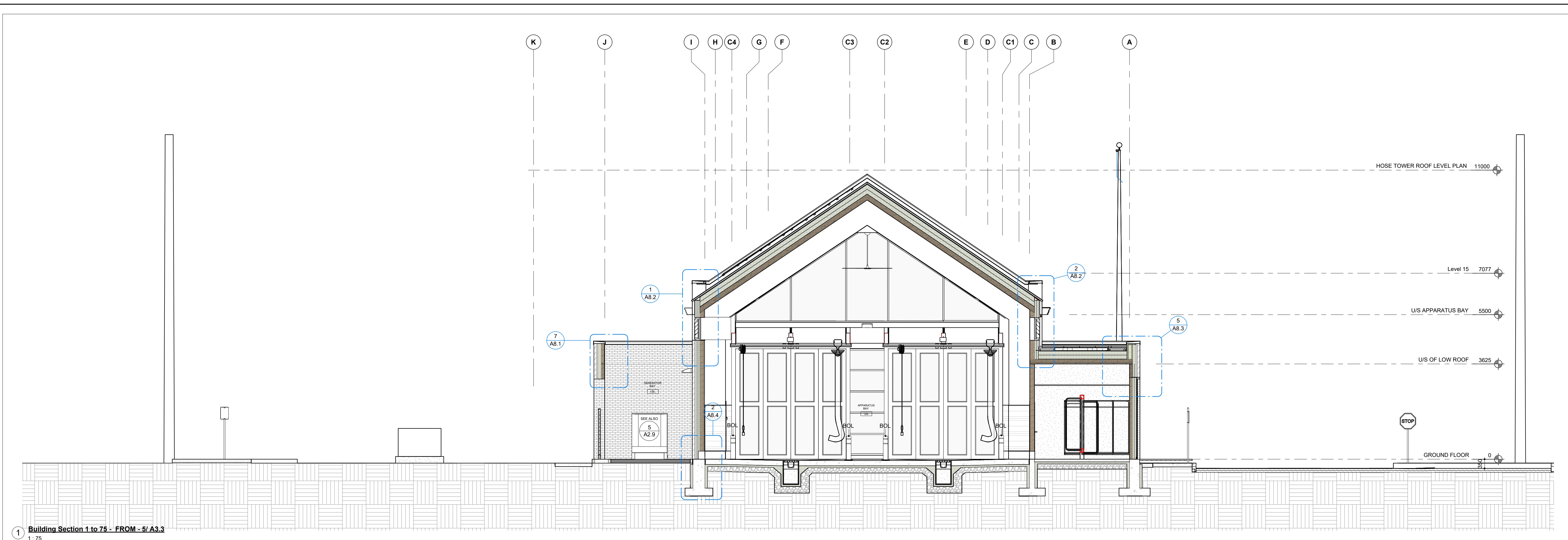
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DWG TITLE
BUILDING SECTIONS

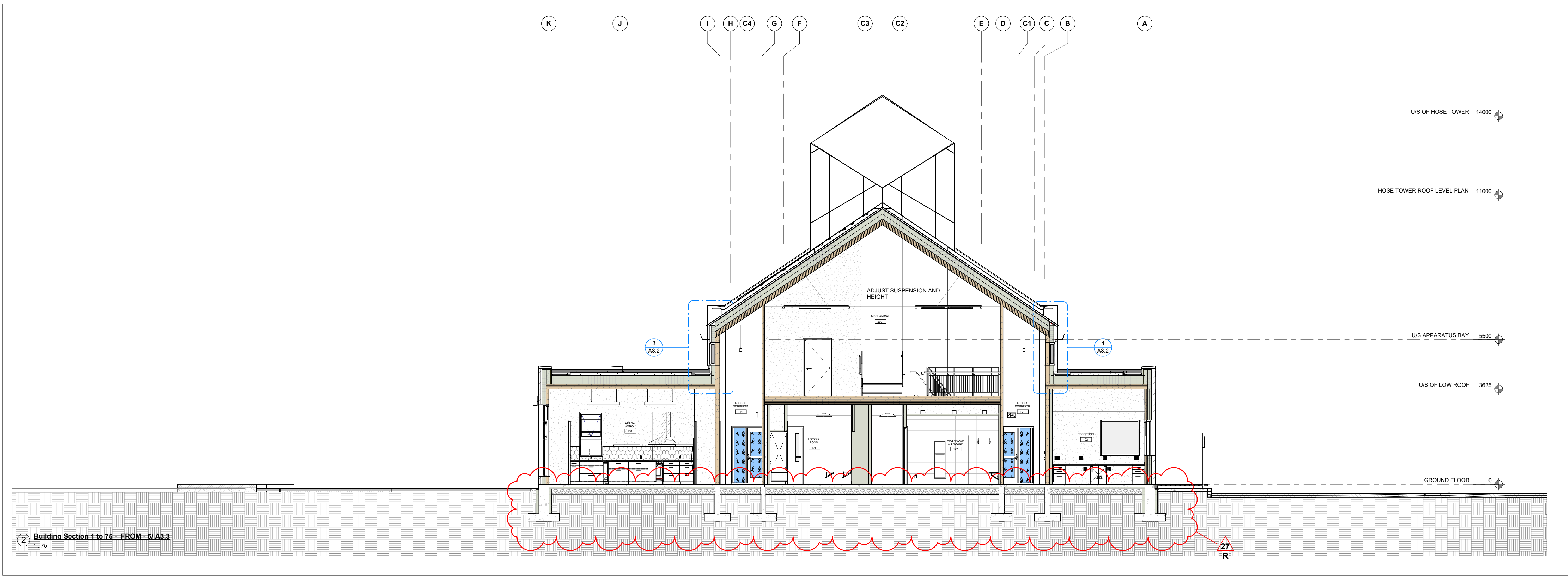


DATE	2021-11-24
SCALE	1 : 75
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A7.2
DRAWN BY	SRL
REVISION	30

2024-09-09 4:09:51 PM



1 Building Section 1 to 75 - FROM - 5/ A3.3
1 : 75



2 Building Section 1 to 75 - FROM - 5/ A3.3
1 : 75

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
27	ADDENDUM #1	2024-05-09
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT :

CLIENT :

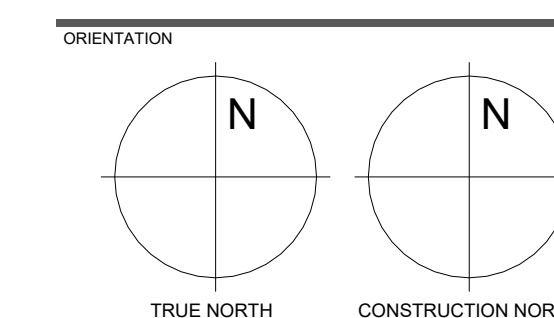


THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR
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ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE
BUILDING SECTIONS



DATE
2021-11-24

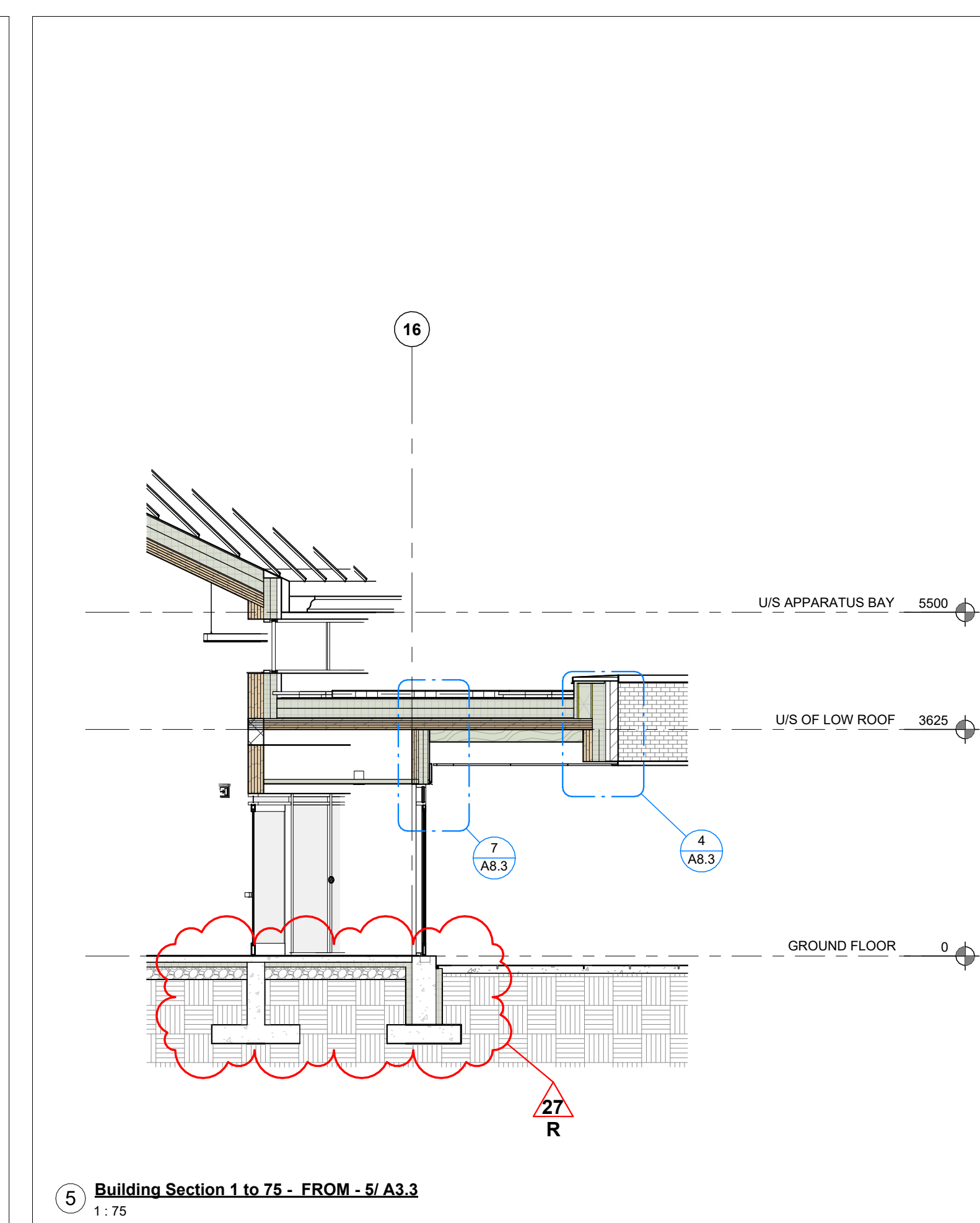
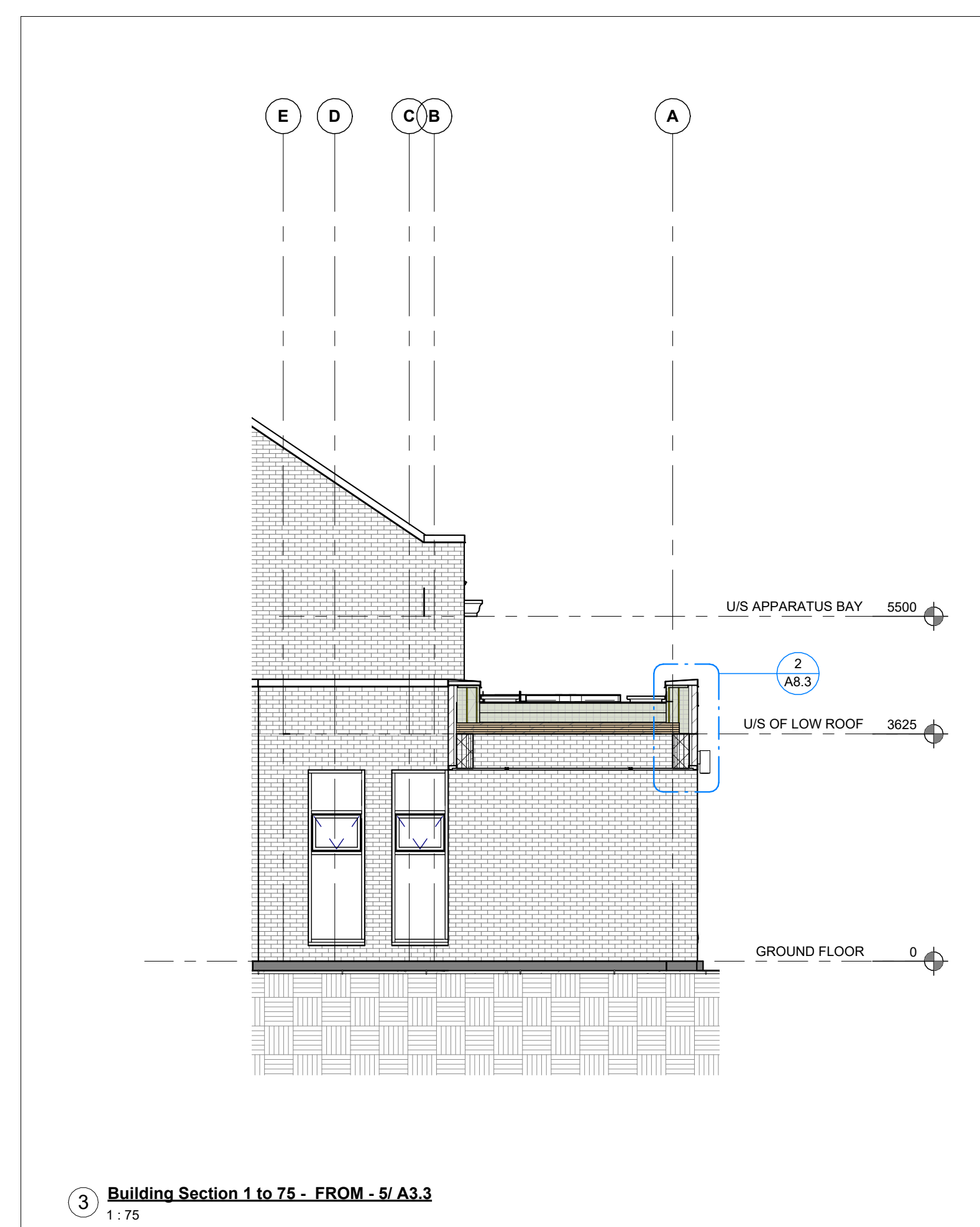
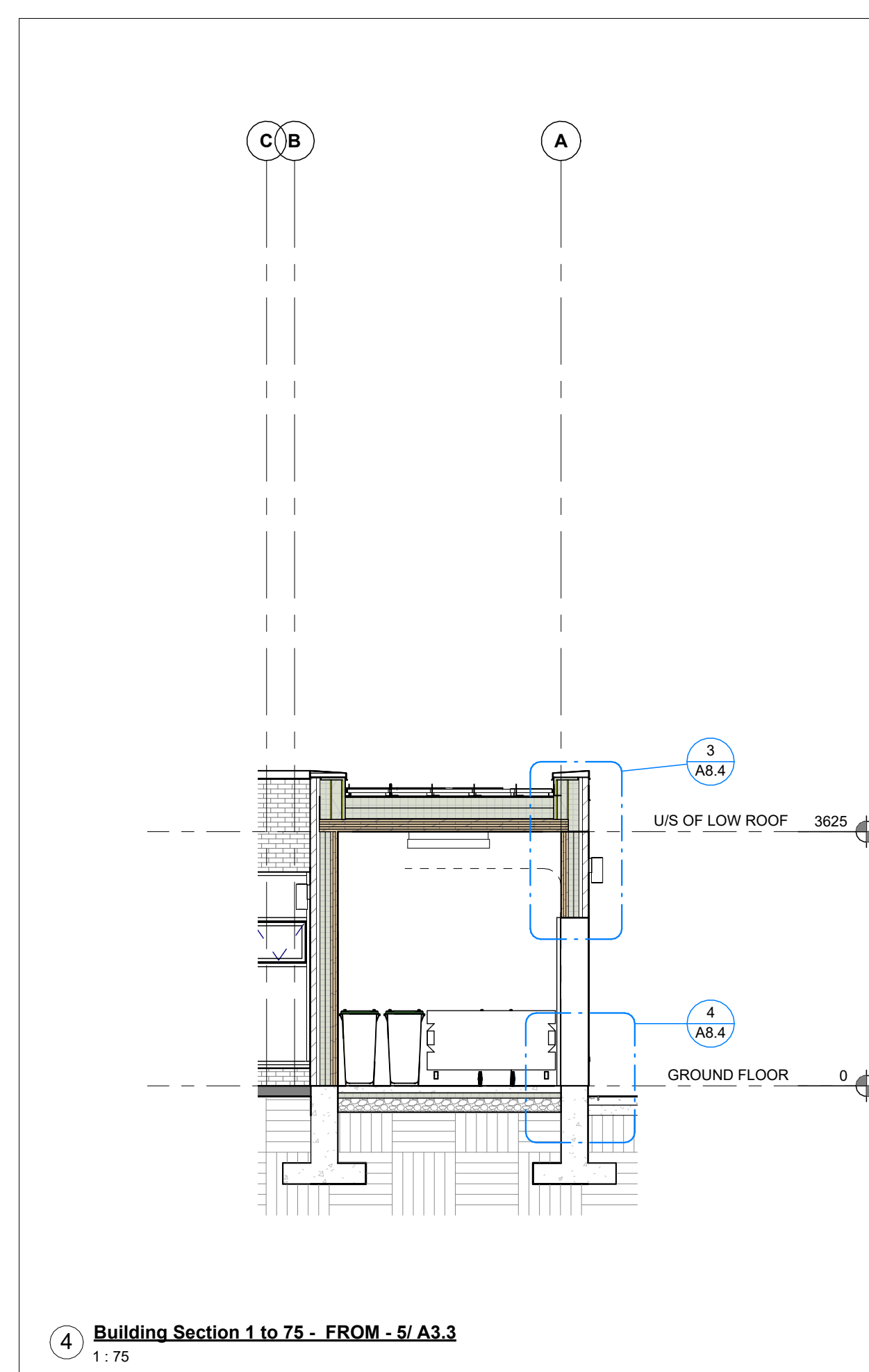
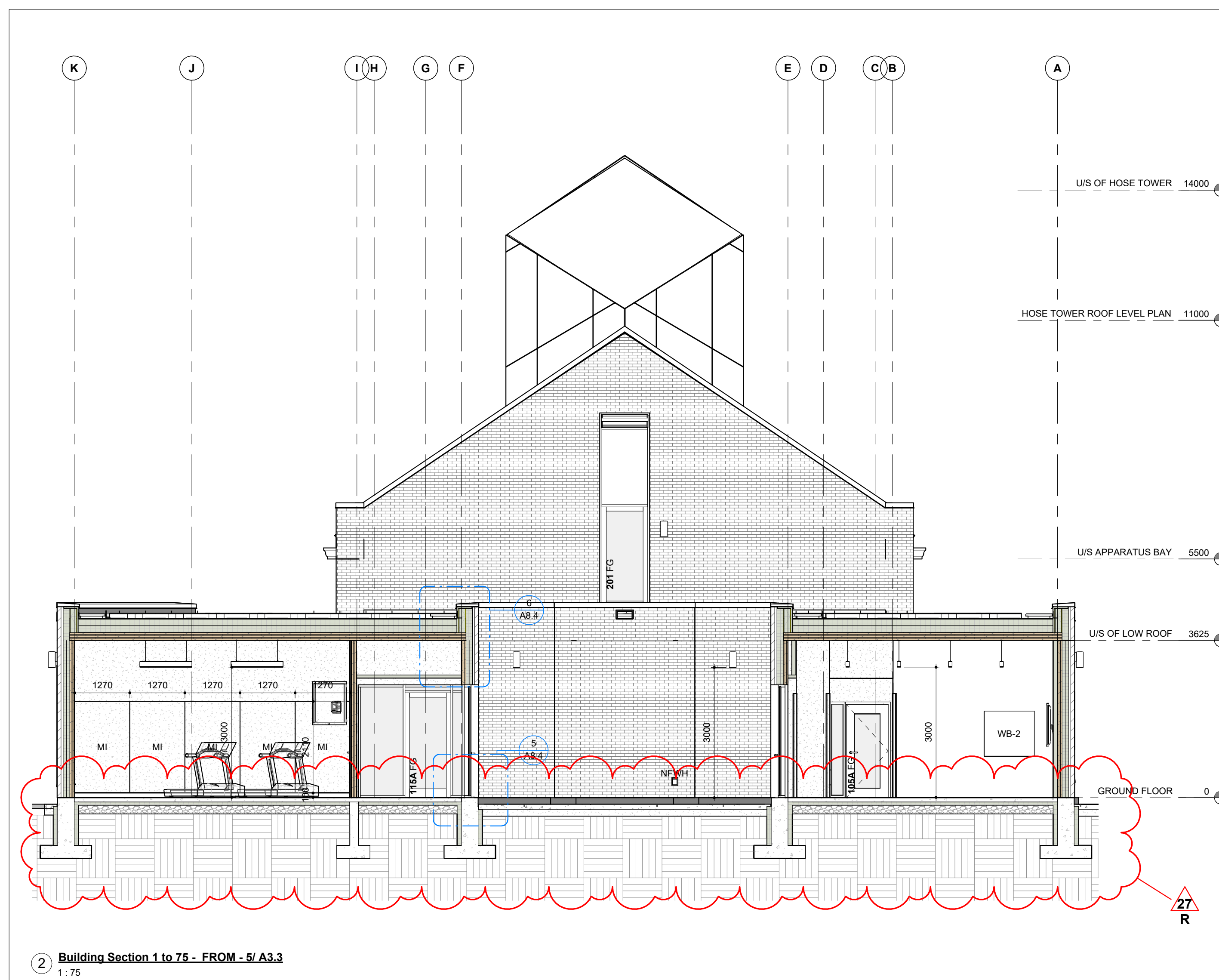
SCALE
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DWG STATUS
TENDER

PROJECT No.
2104

DRAWING No.
A7.3

REVISION
30



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NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
16	DD CLIENT REVIEW	2023-07-24
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
27	ADDENDUM #1	2024-05-09
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN



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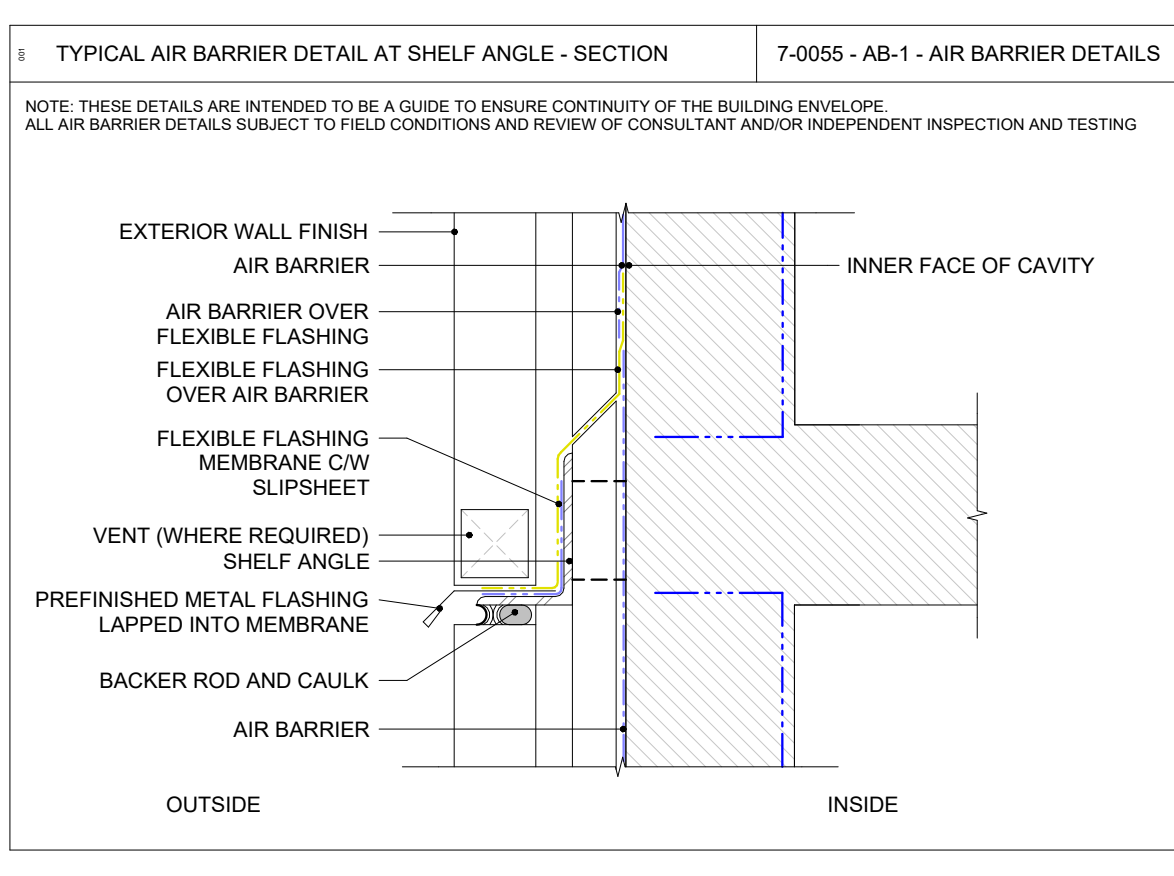
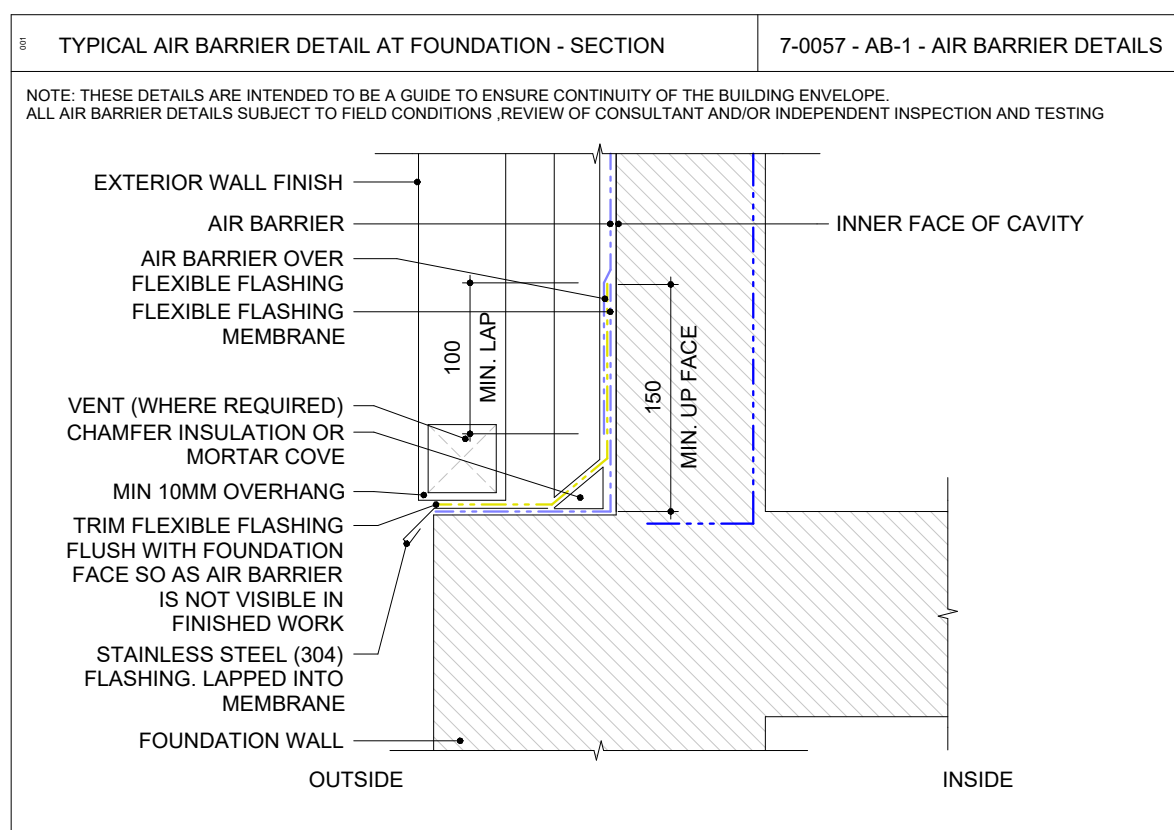
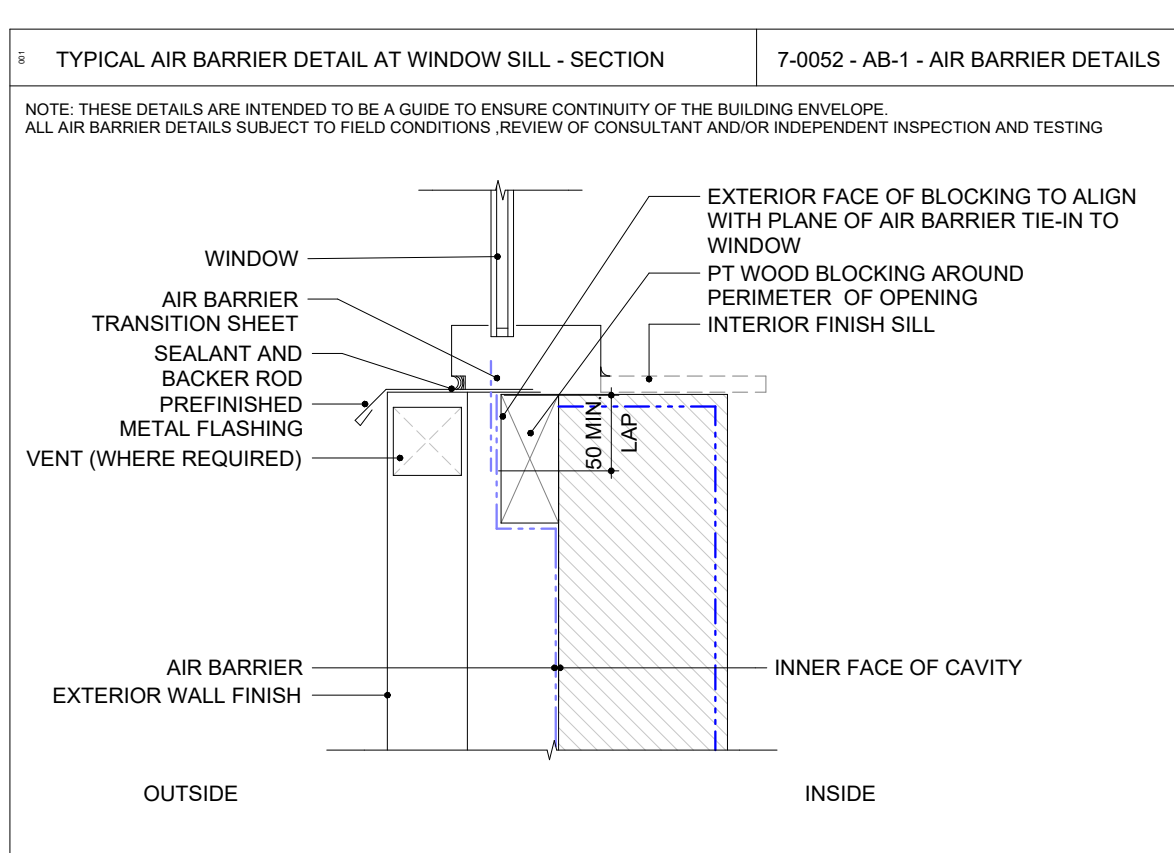
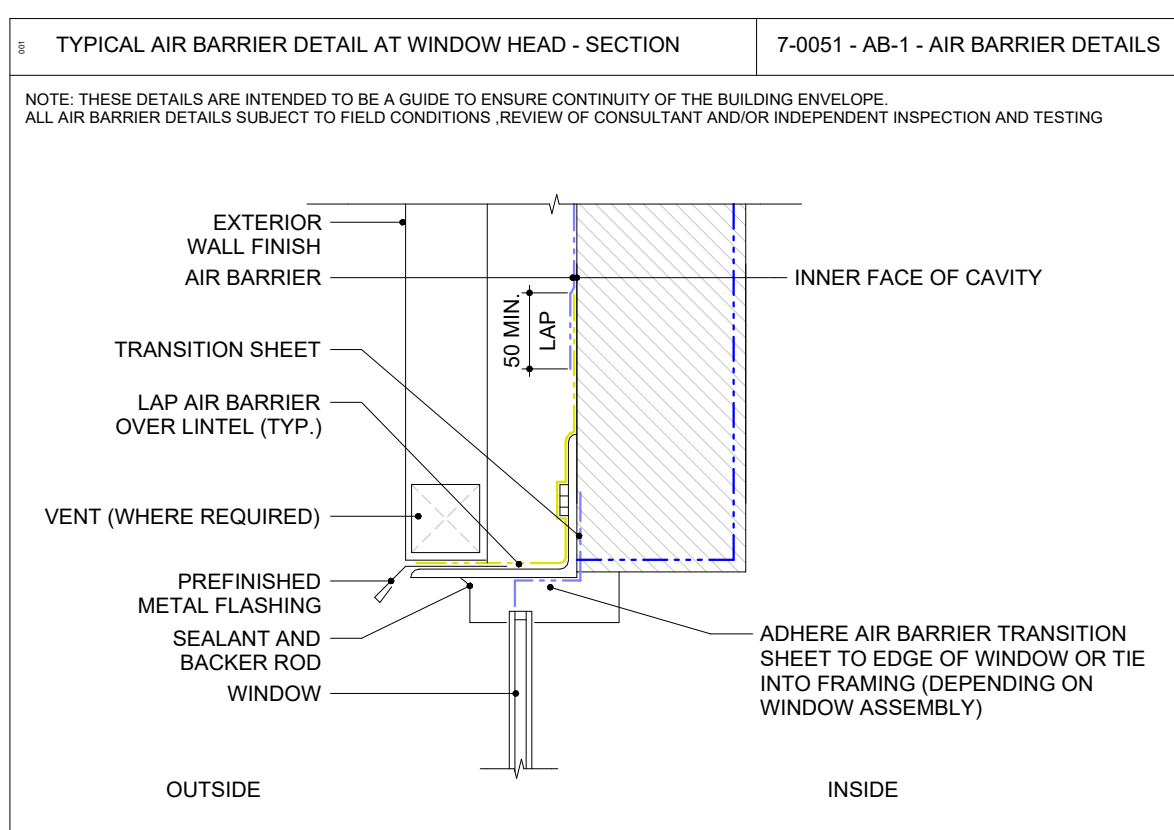
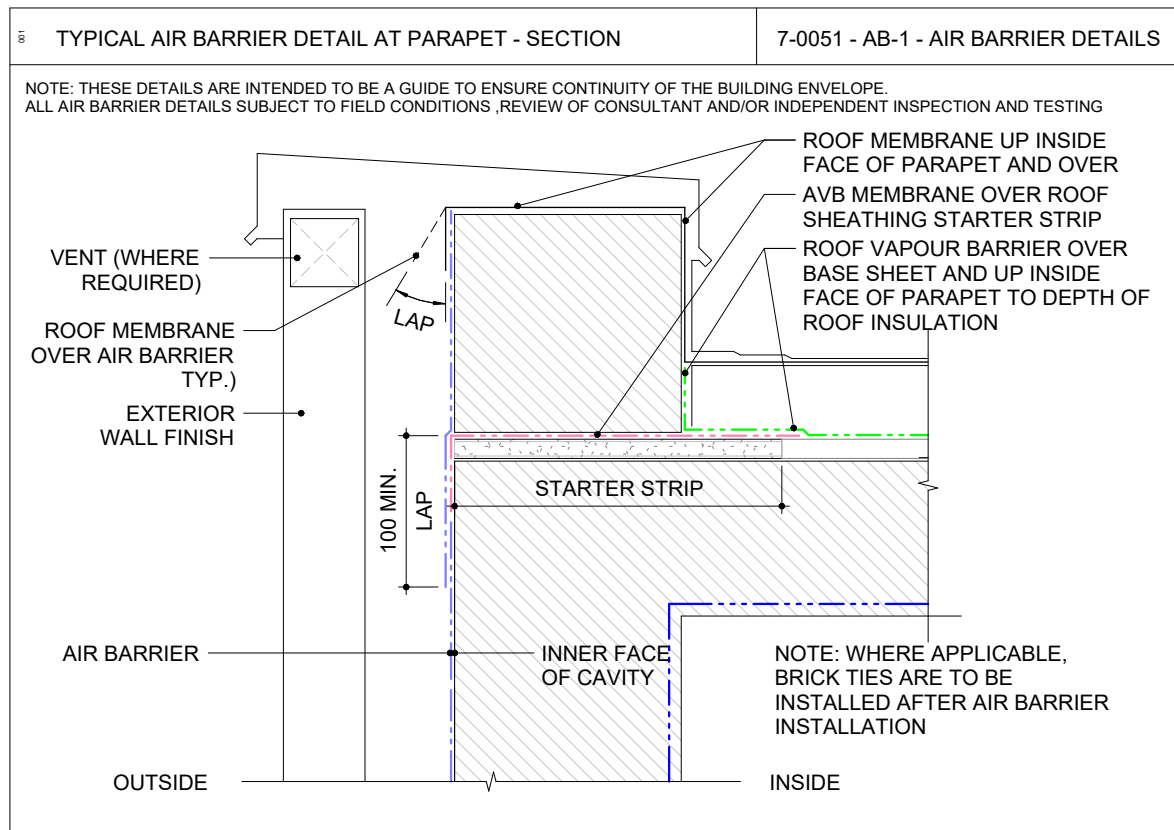
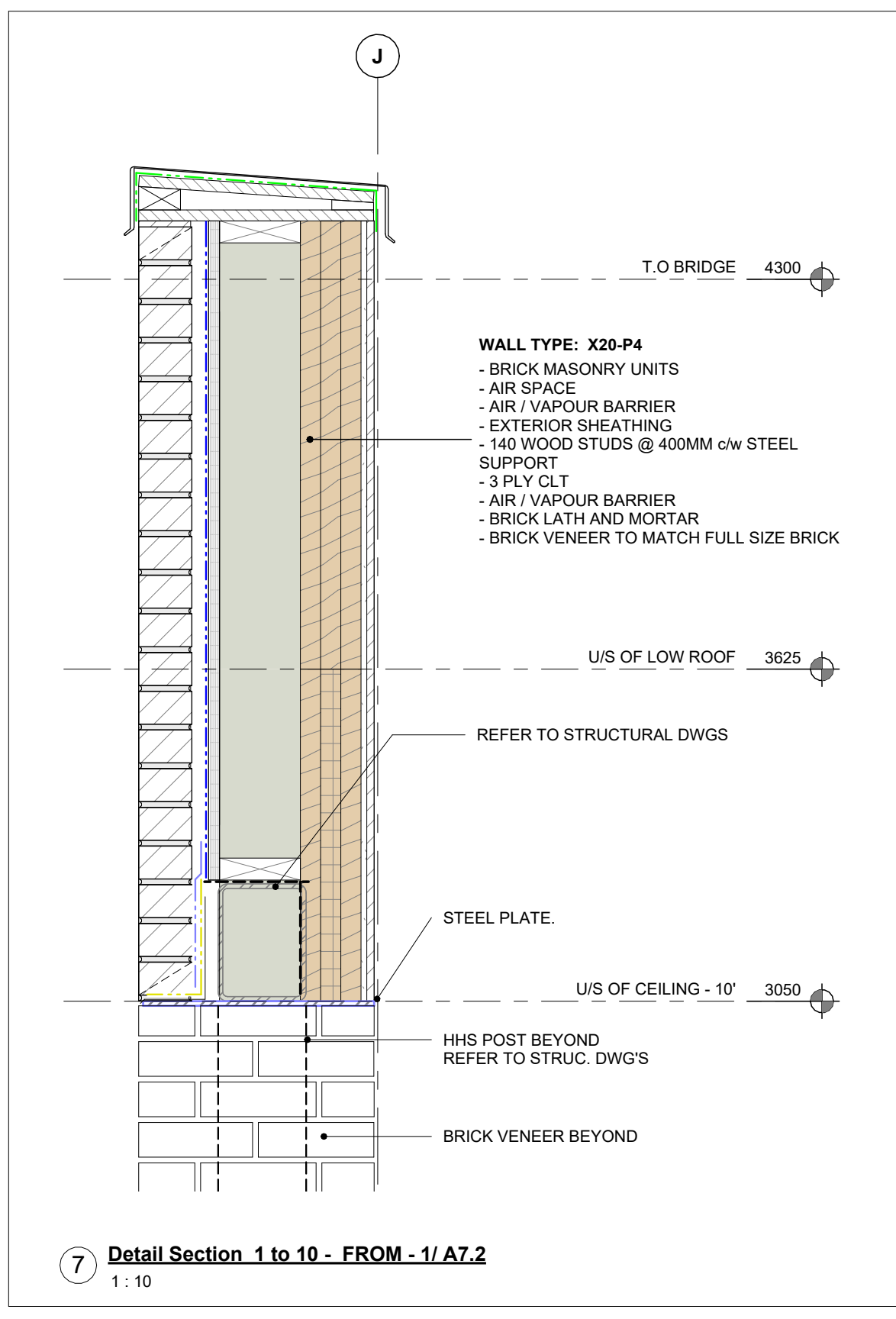
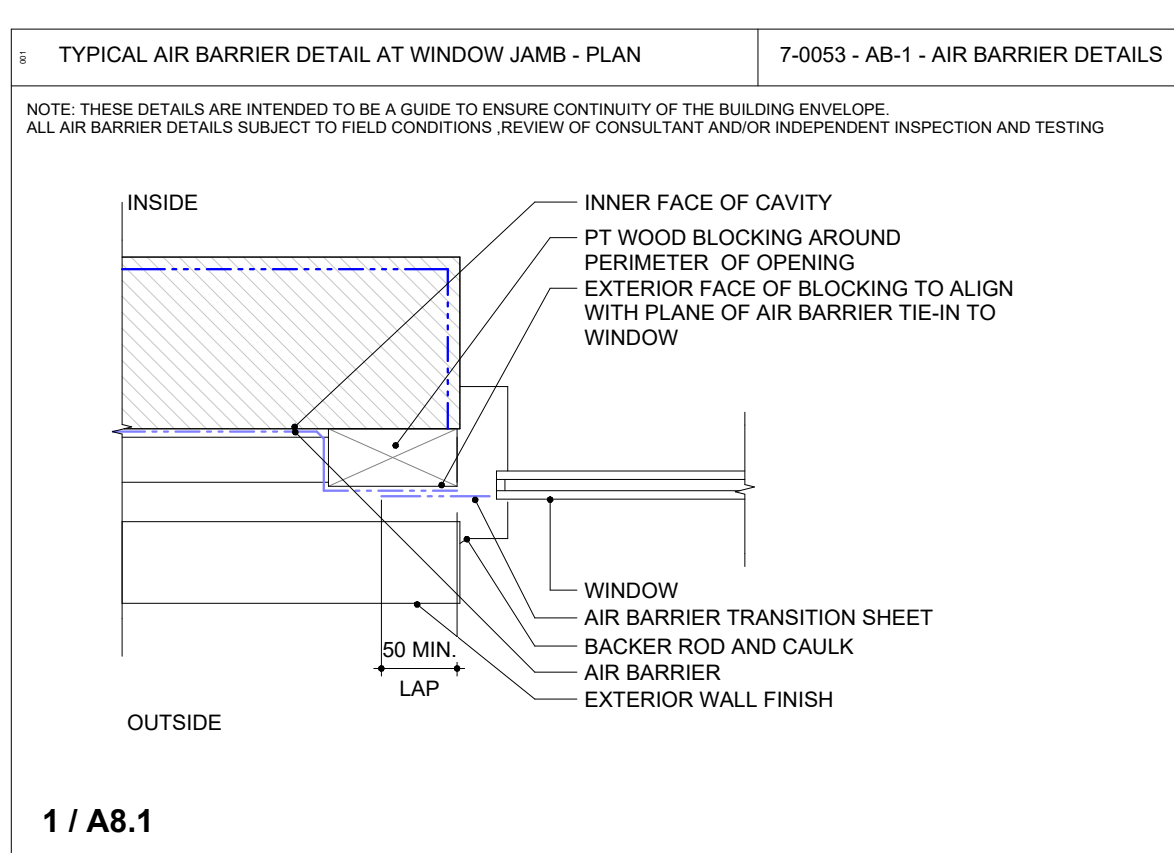
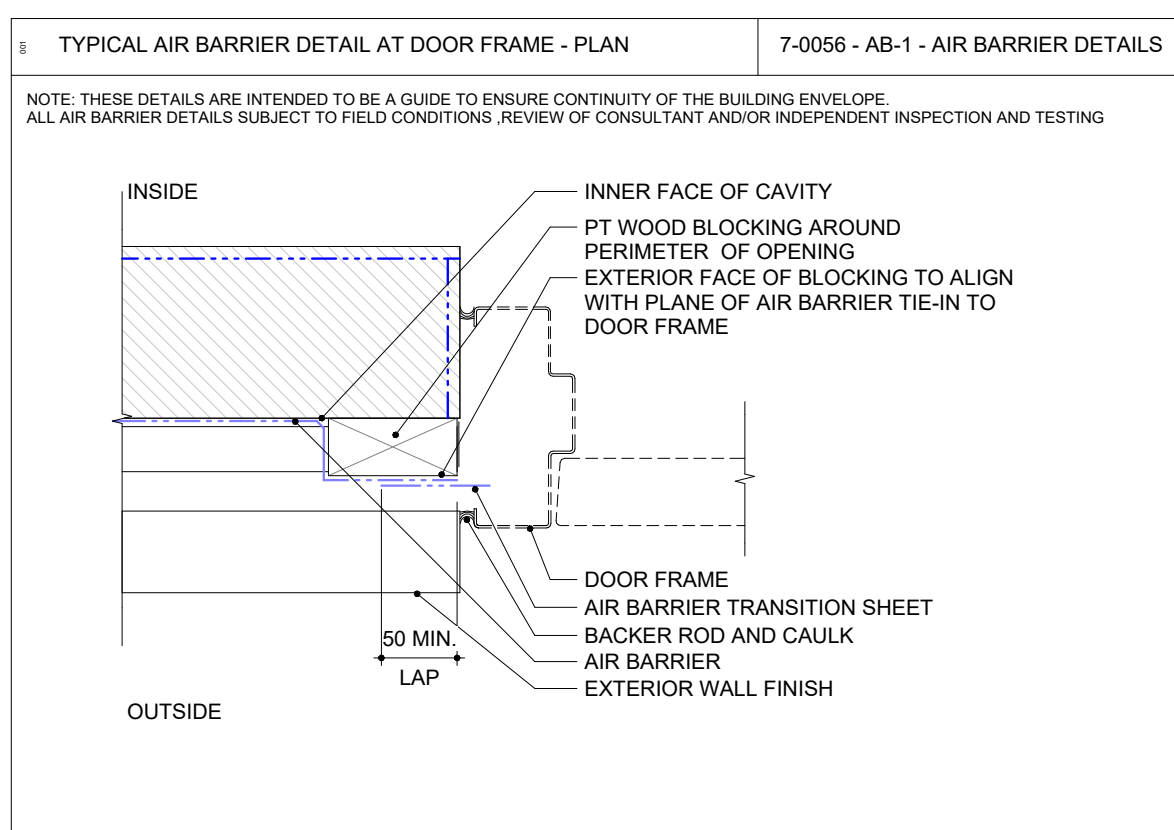
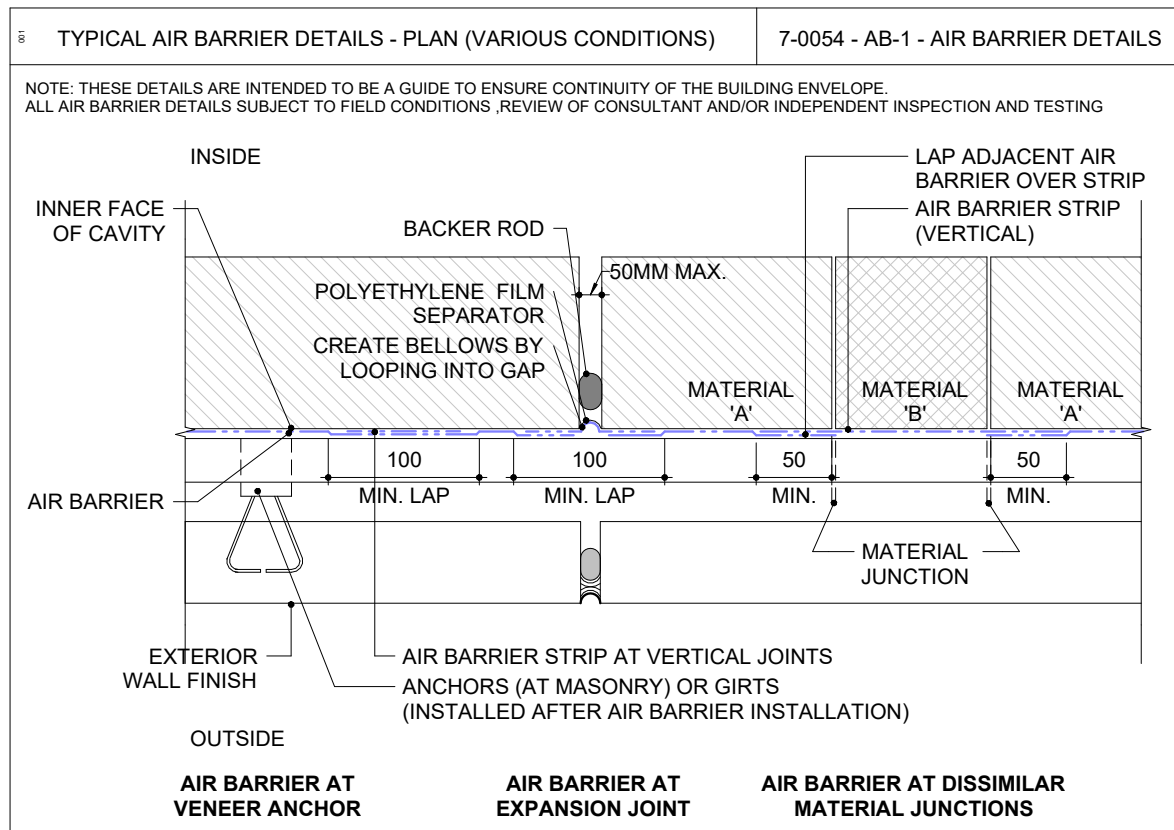
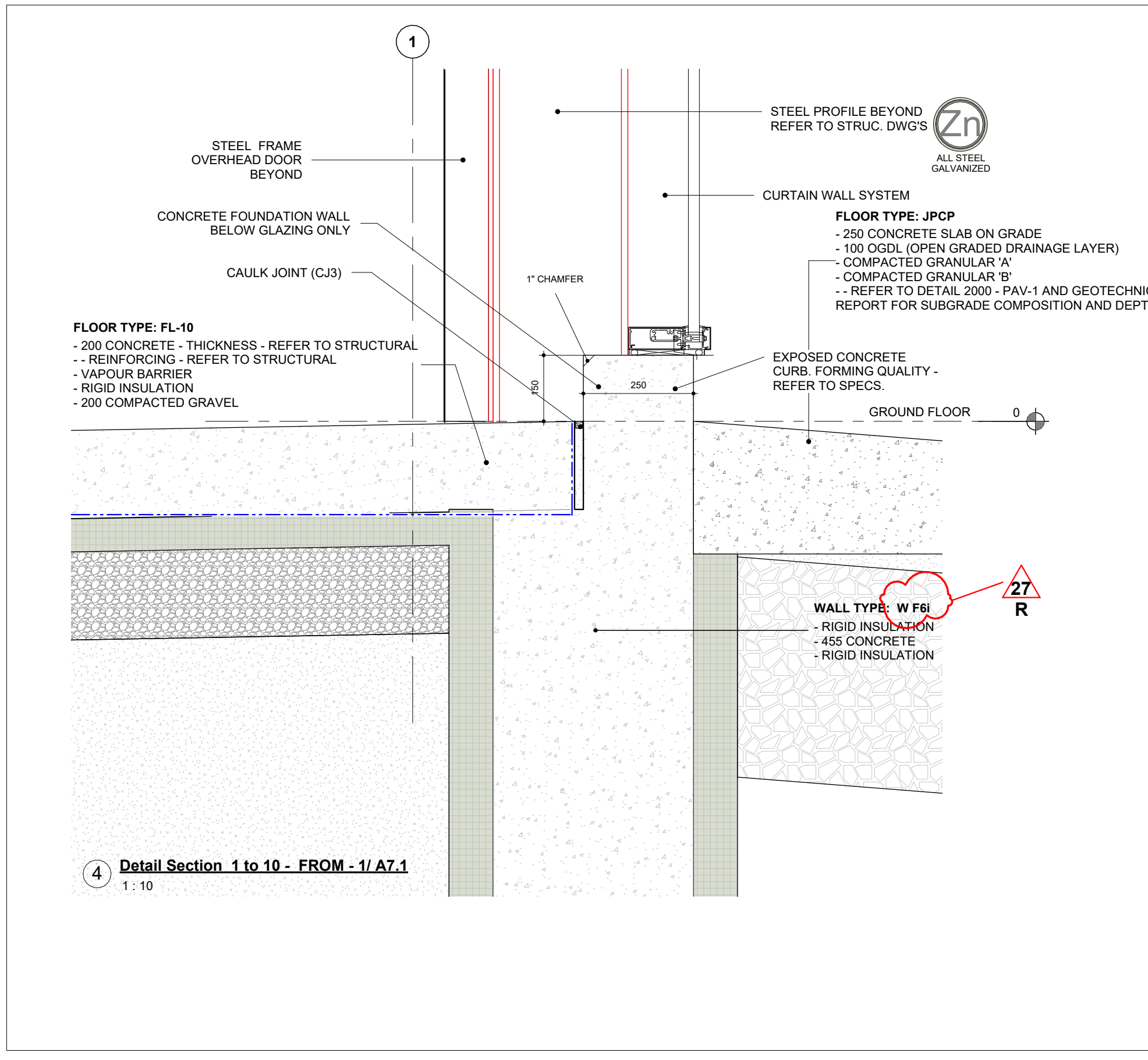
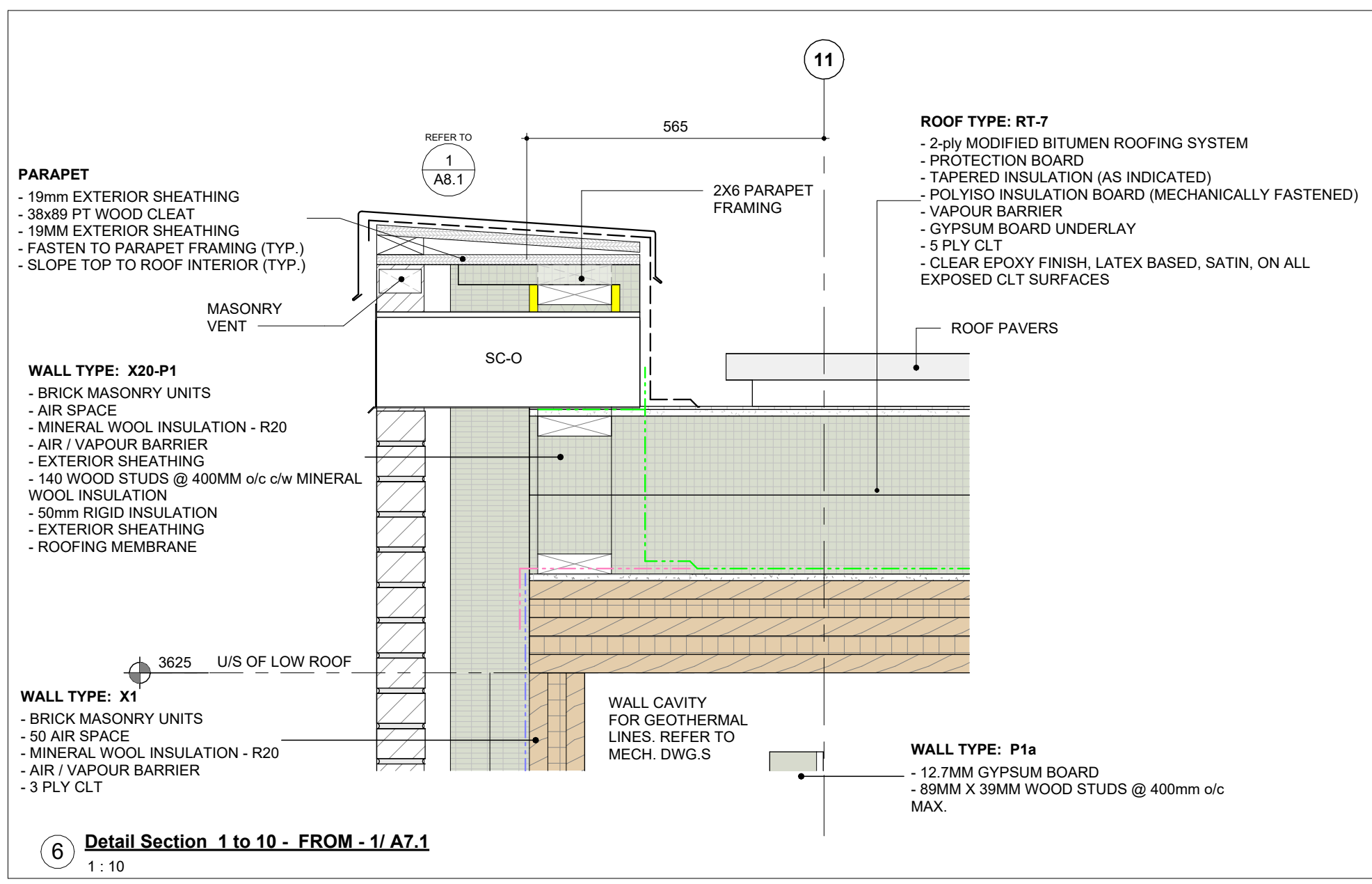
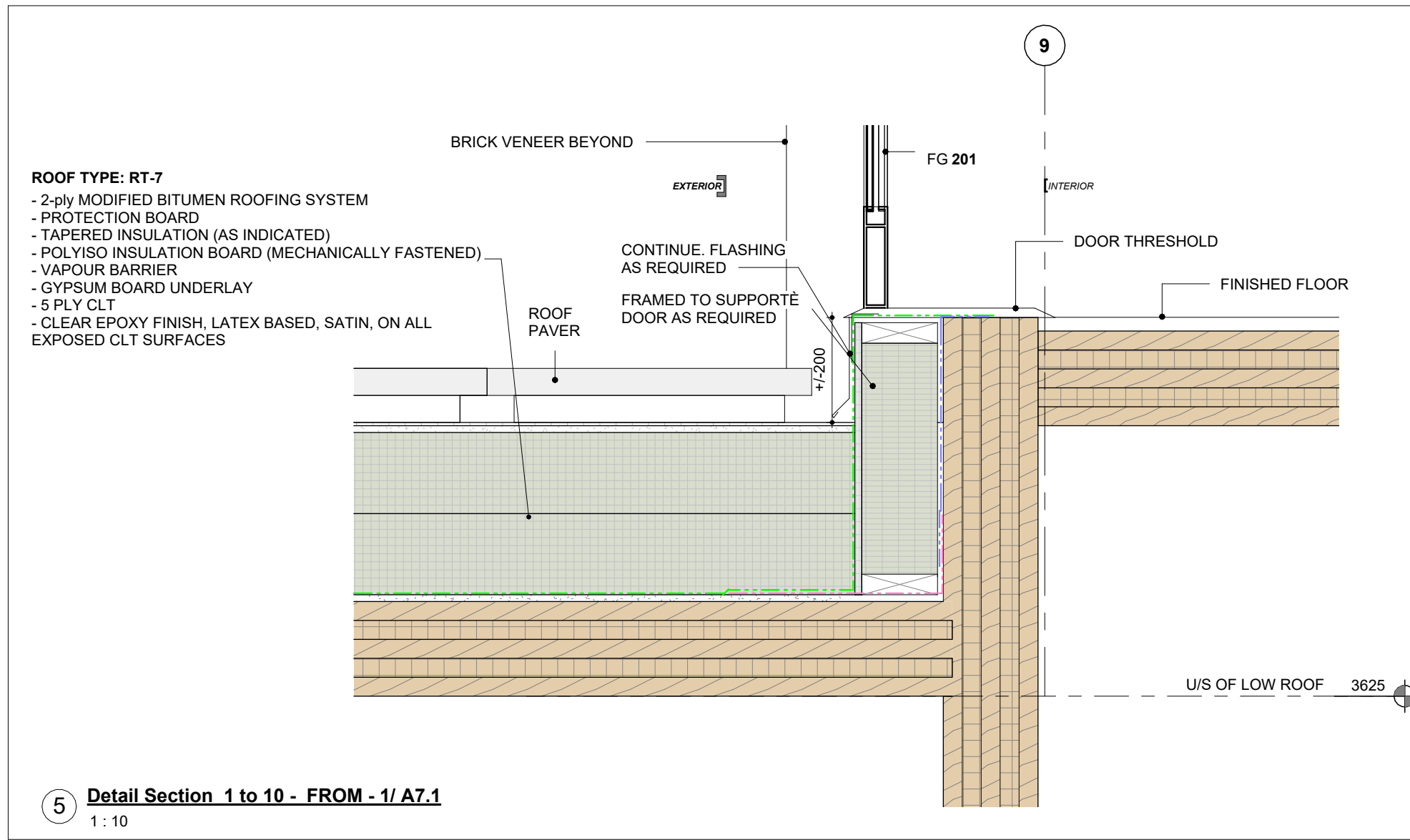
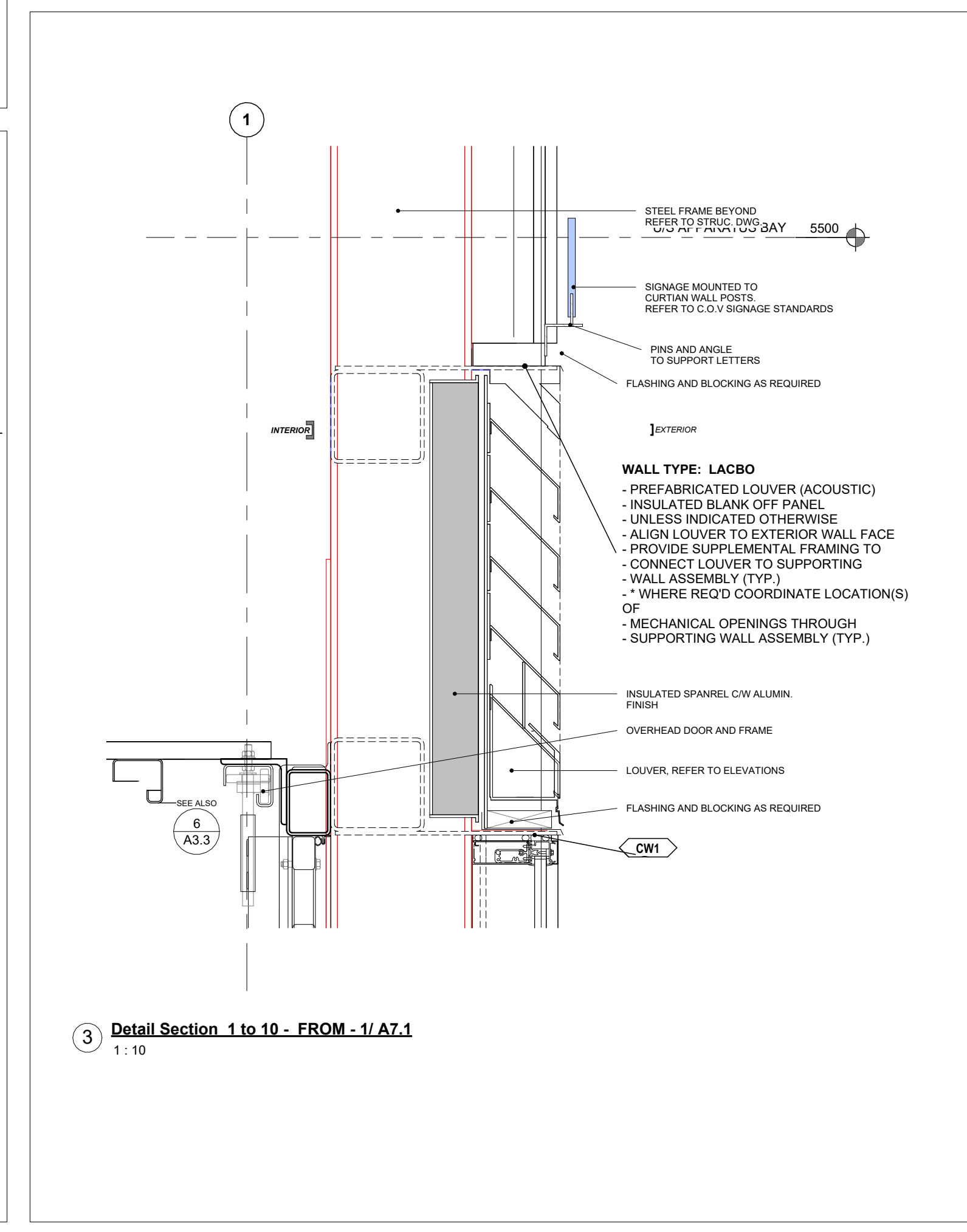
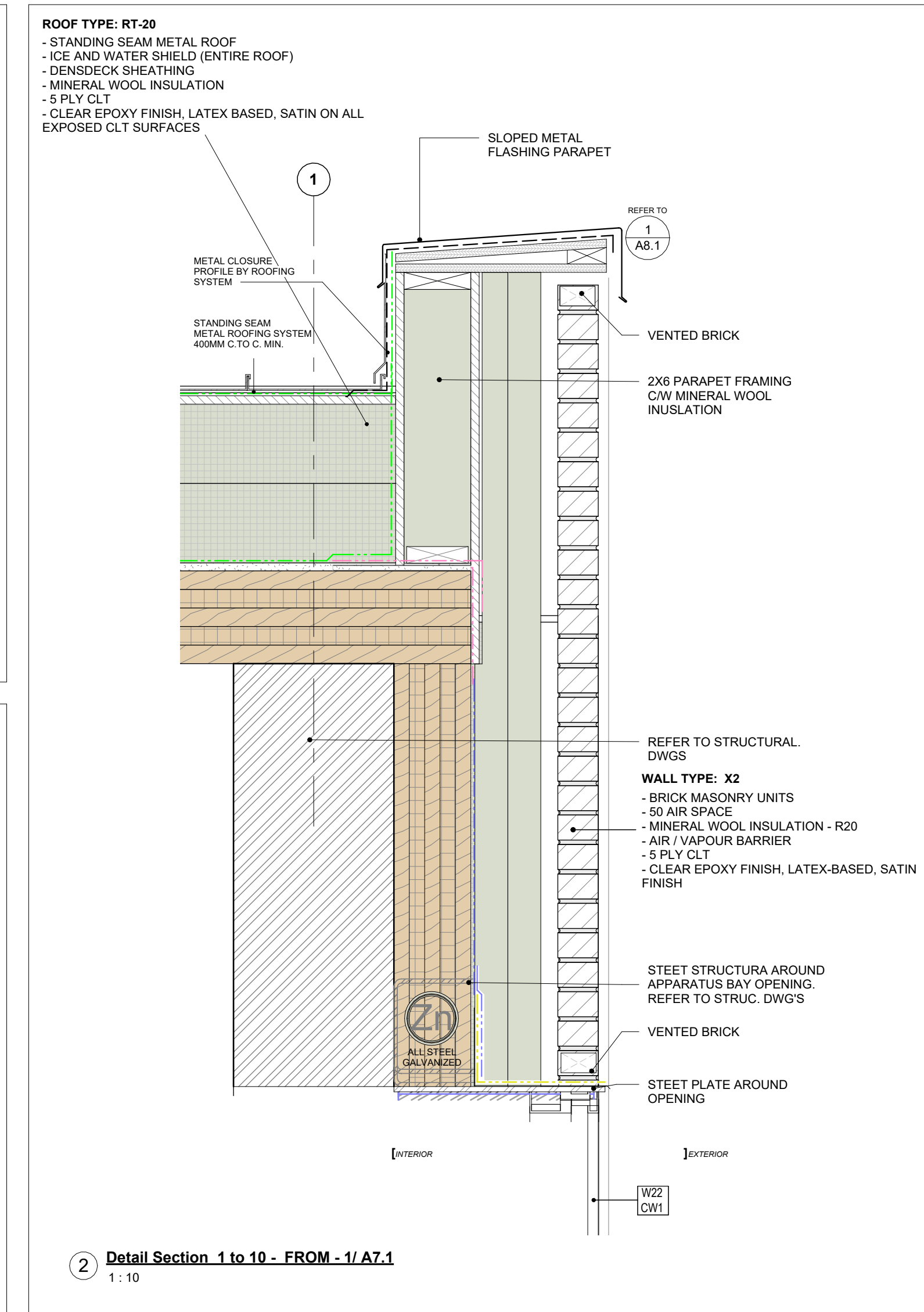
ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

SECTION DETAILS

ORIENTATION

DATE	2021-11-24
SCALE	As indicated
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A8.1
REVISION	30



2024-09-09 4:10:26 PM

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
16	DD CLIENT REVIEW	2023-07-24
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFC	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

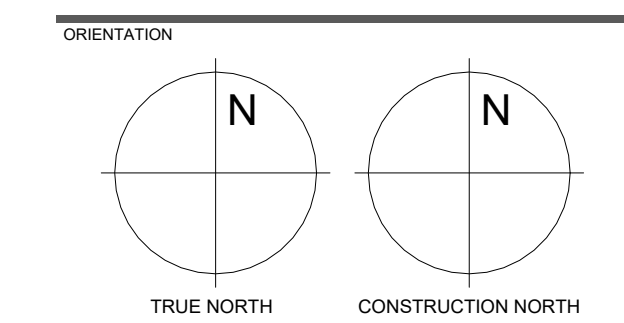


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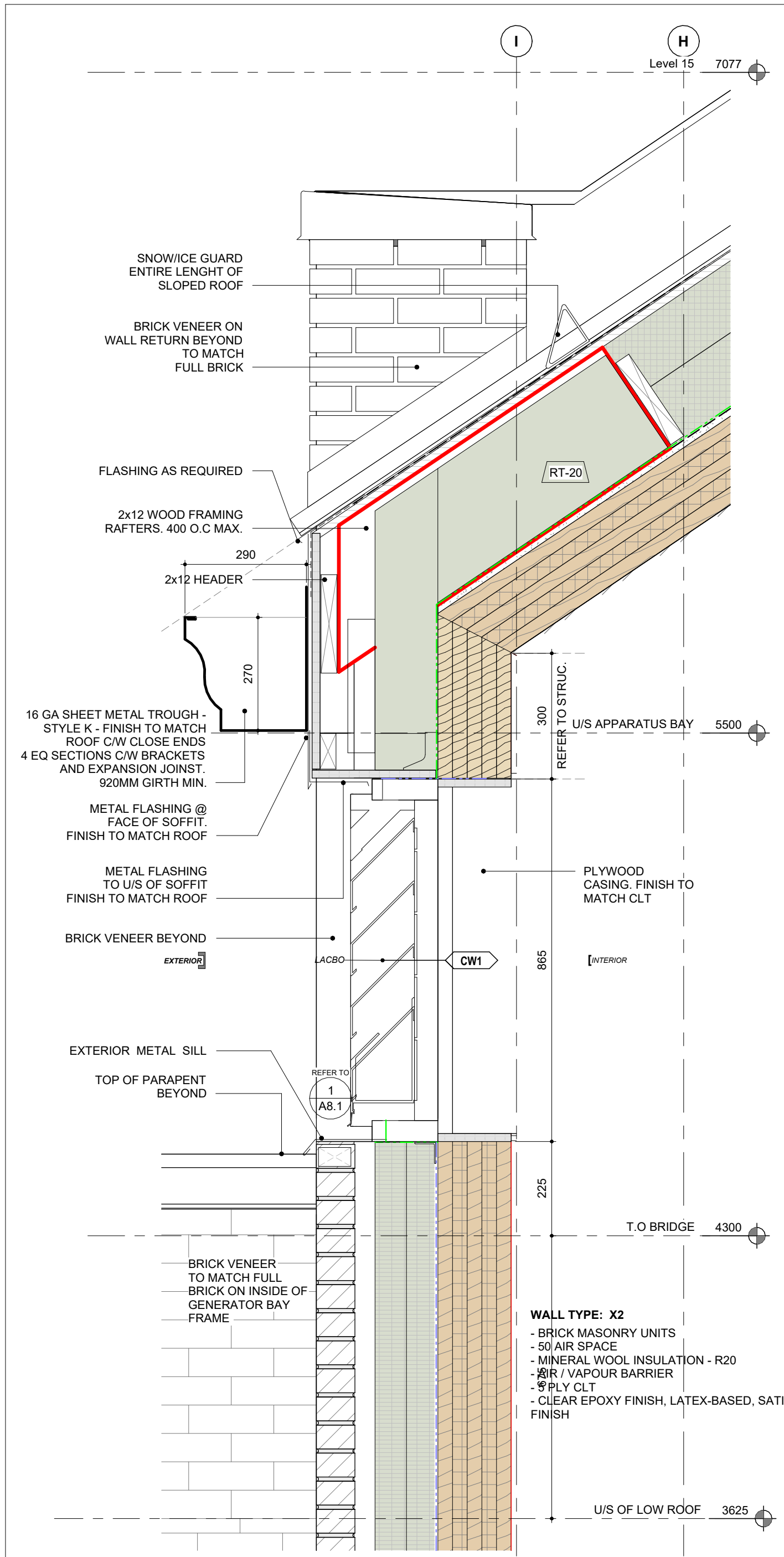
ARCHITECT
THOMASBROWNARCHITECTS
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PROFESSIONAL SEAL

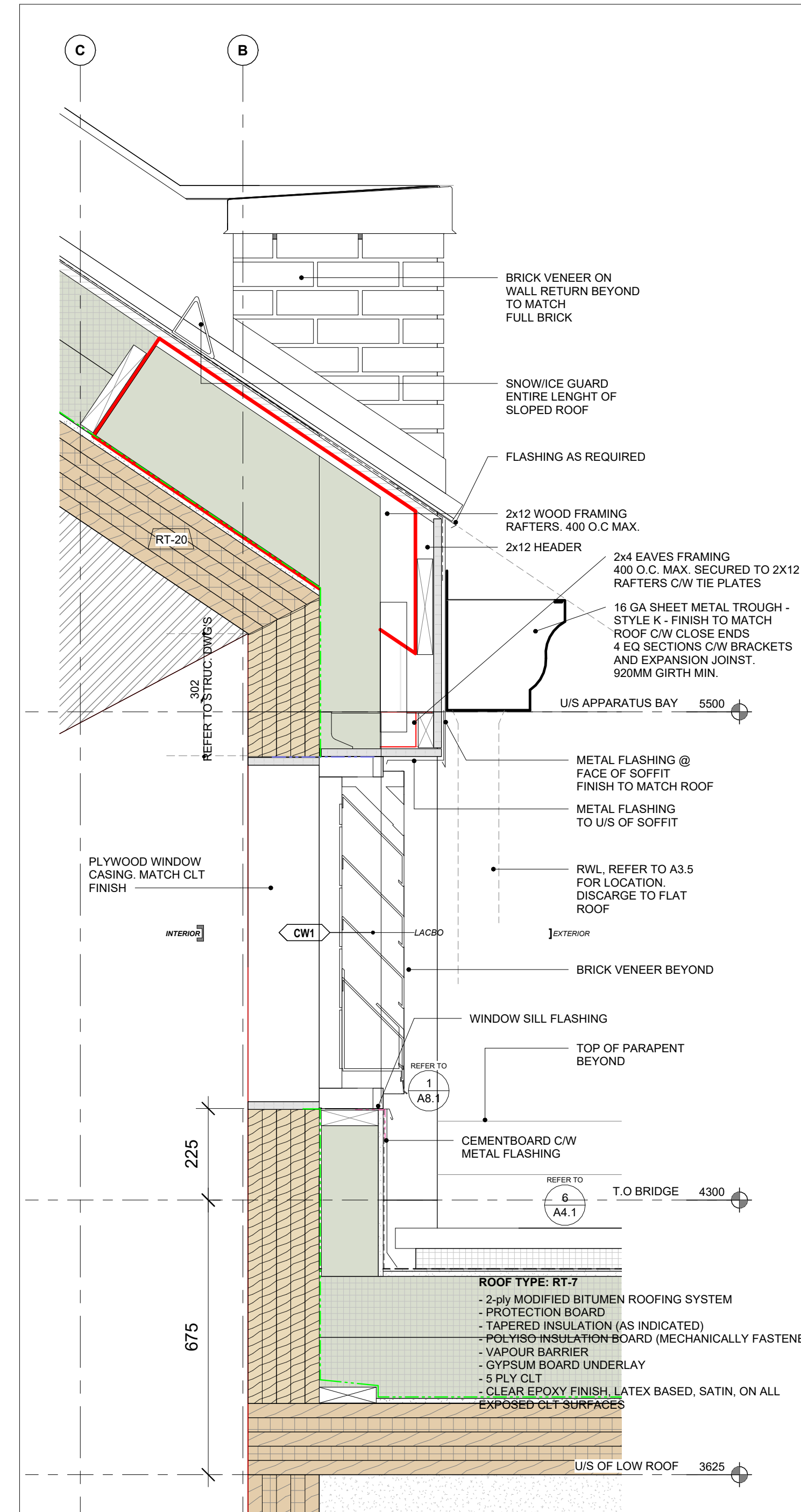
SECTION DETAILS



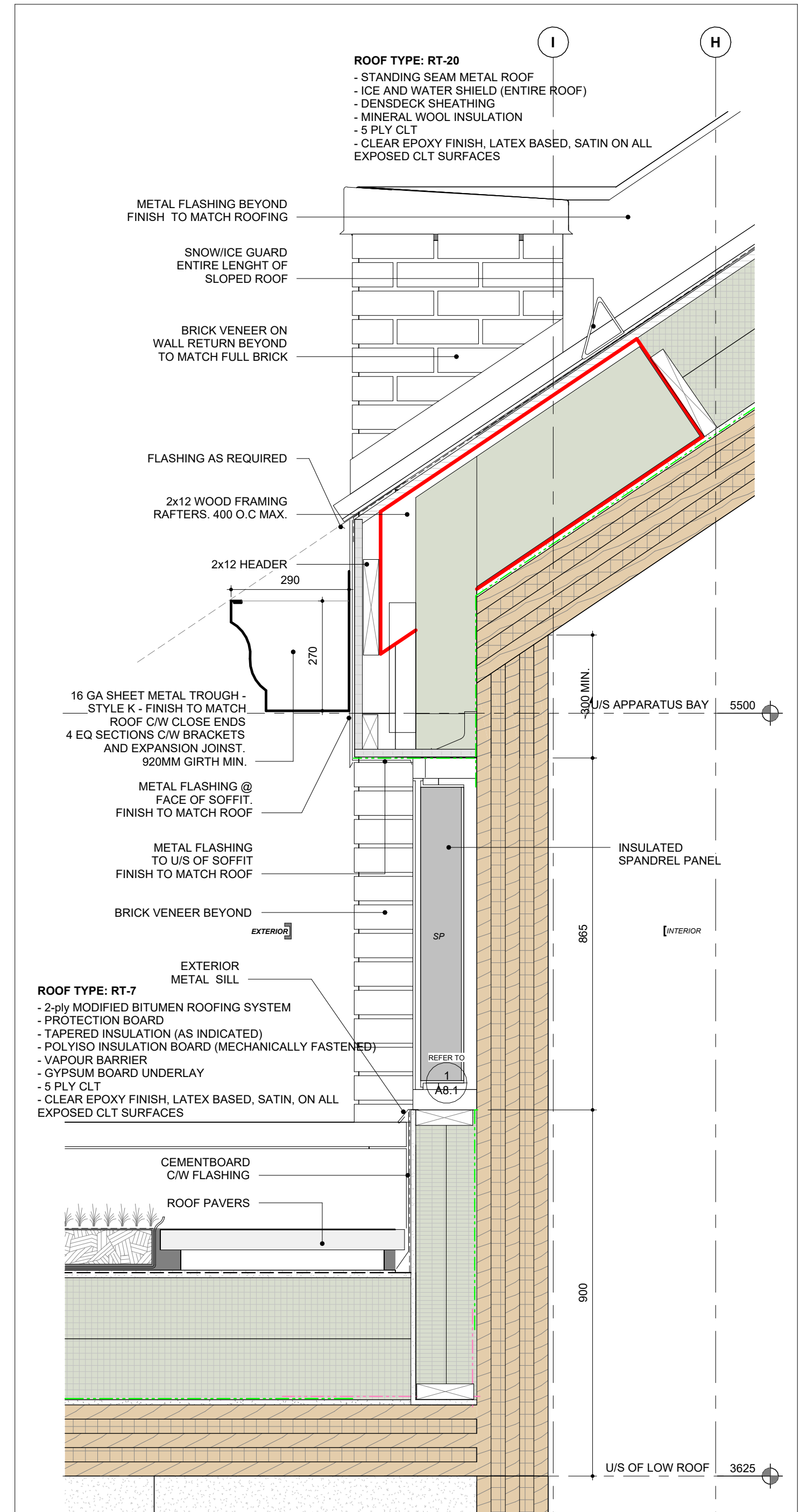
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DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A8.2
REVISION	30



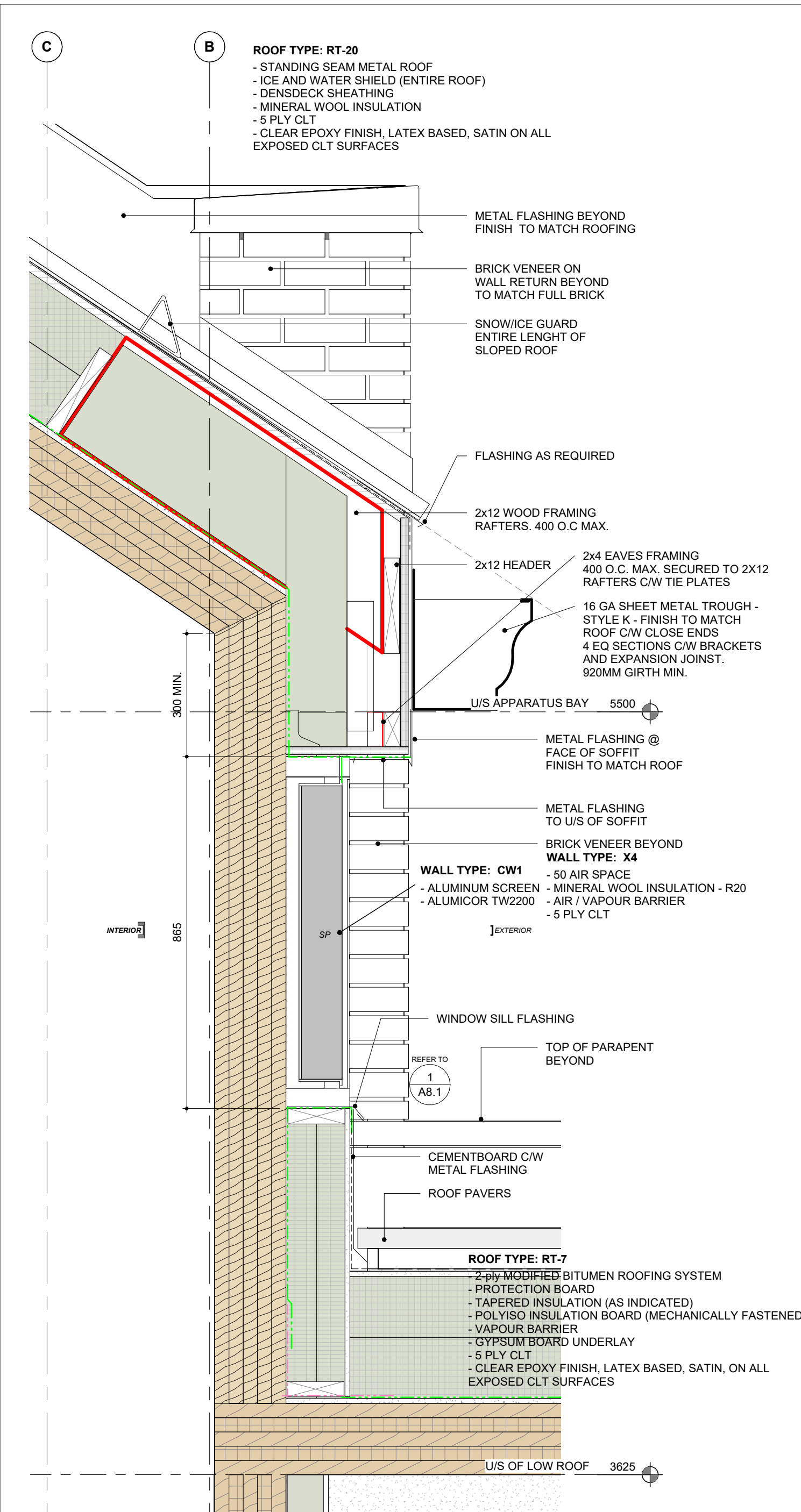
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1 : 10



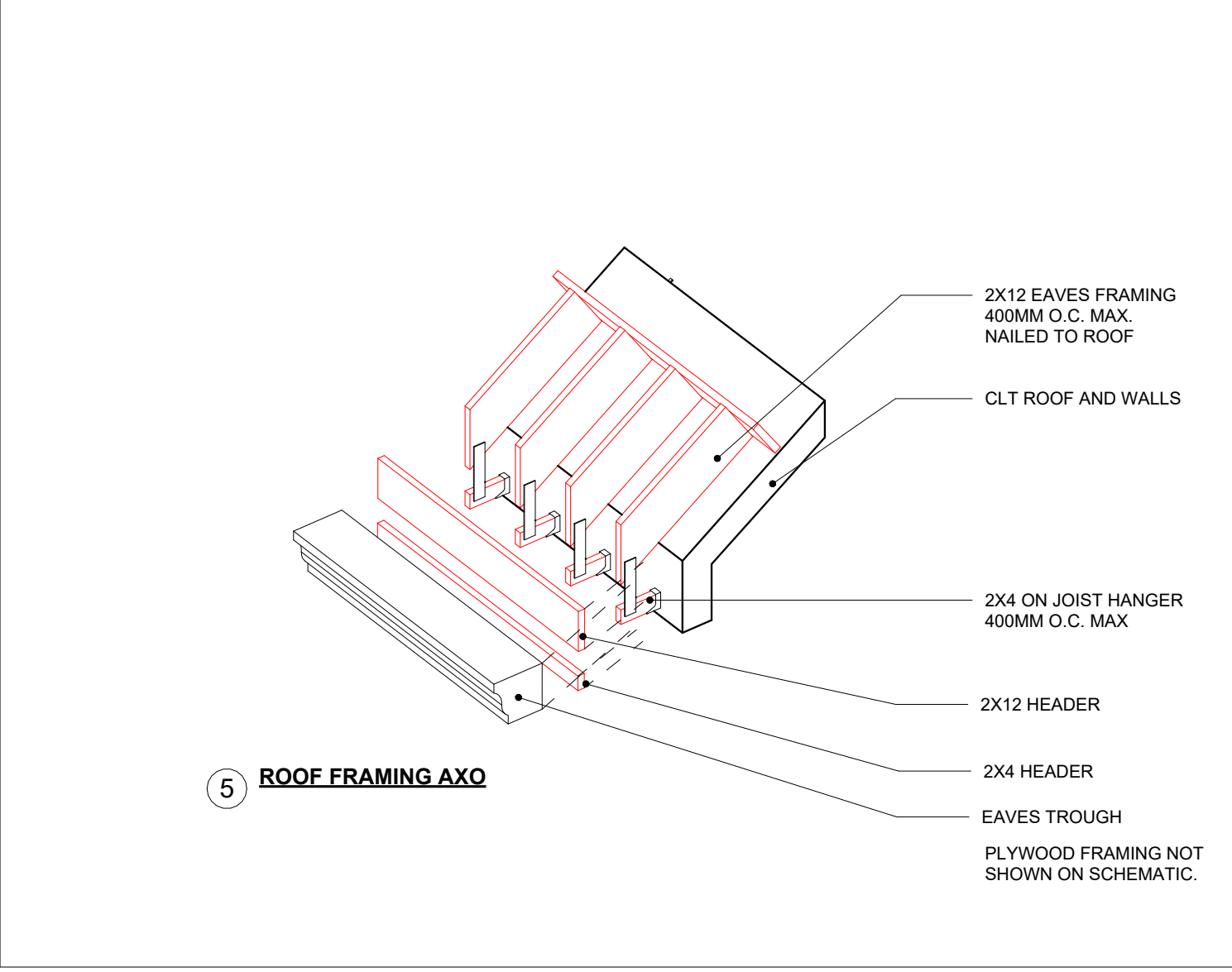
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1 : 10



3 Detail Section 1 to 10 - FROM - 2/ A7.2
1 : 10



4 Detail Section 1 to 10 - FROM - 2/ A7.2
1 : 10



5 ROOF FRAMING AXO

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
27	ADDENDUM #1	2024-05-09
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

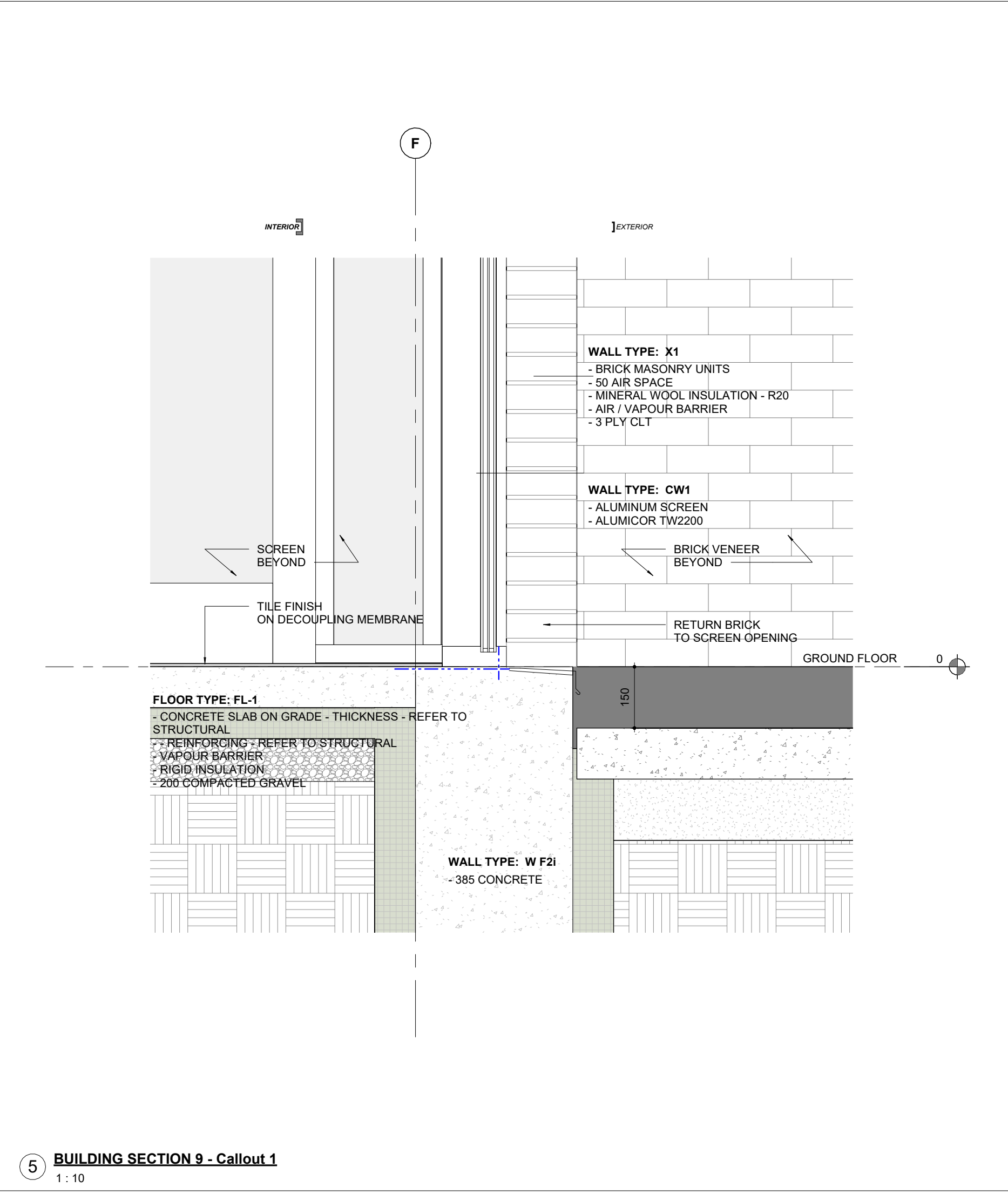
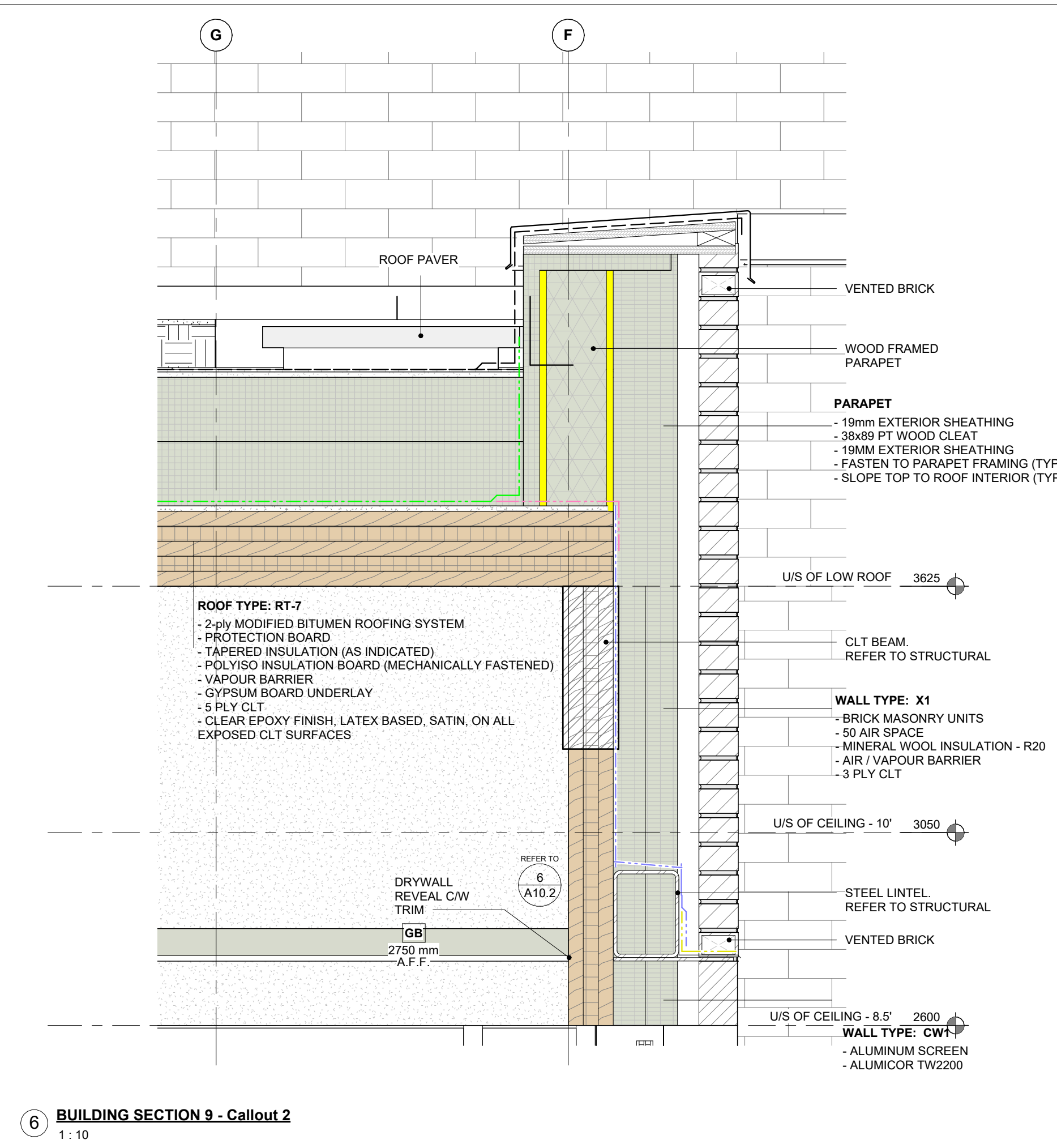
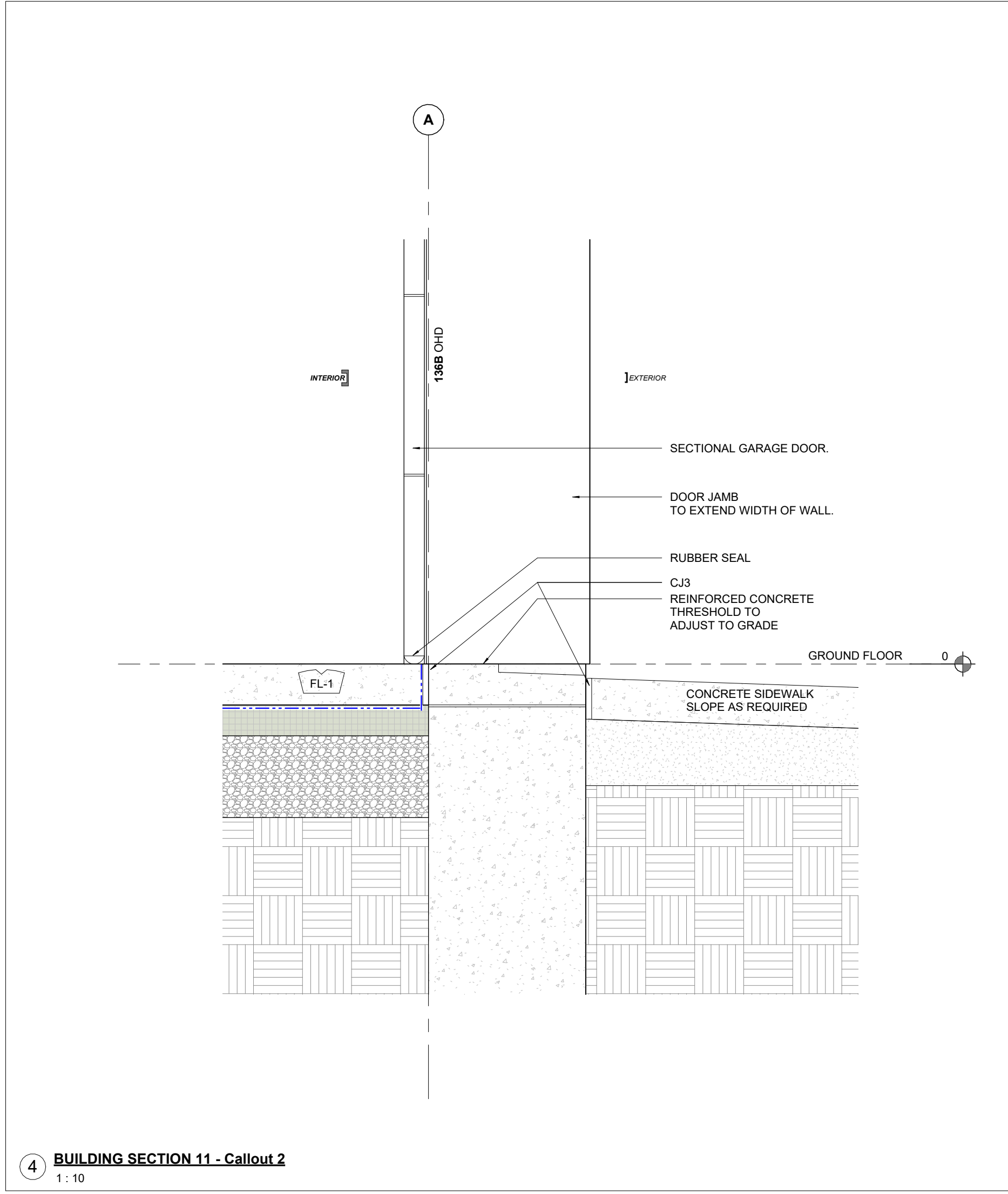
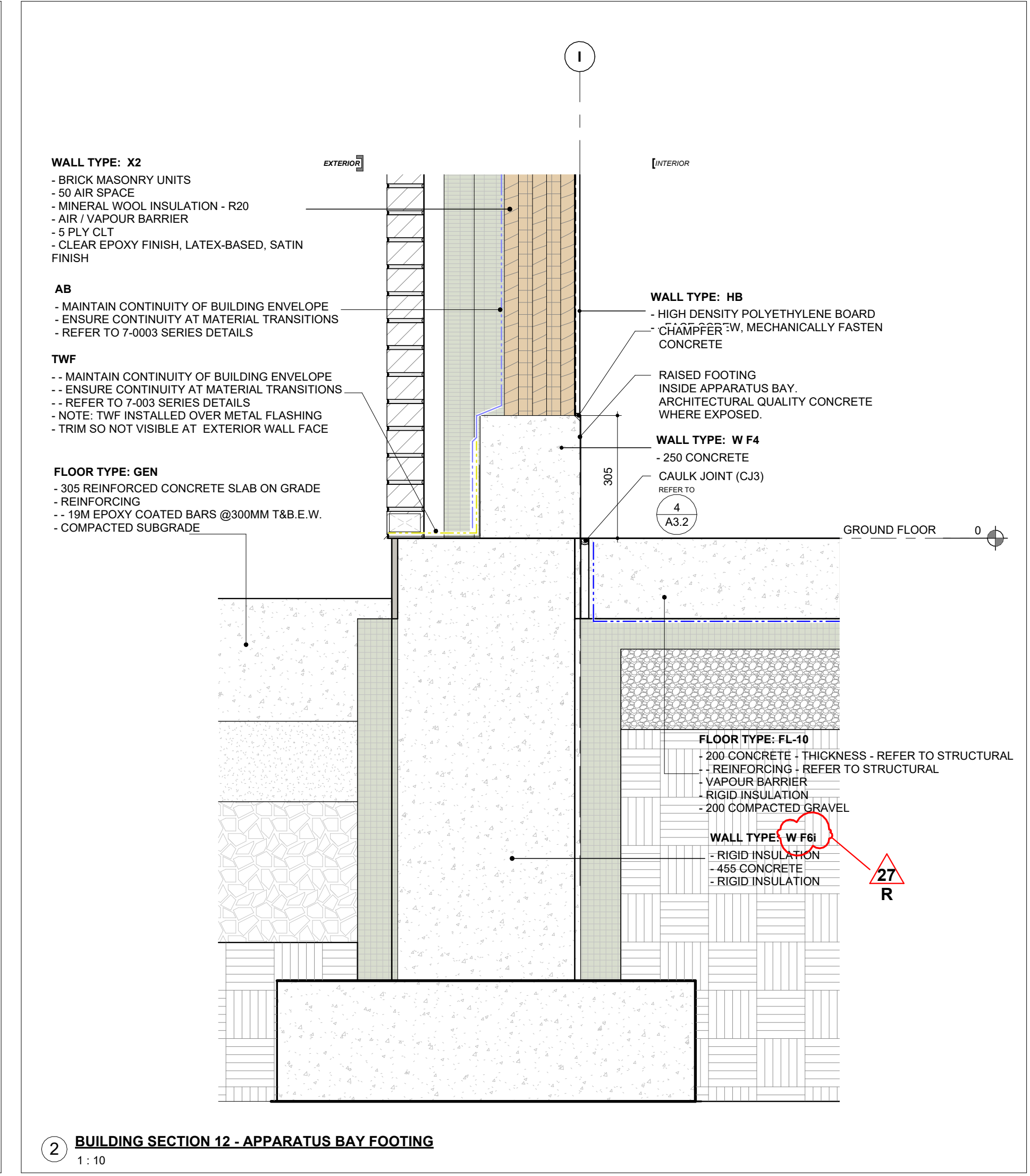
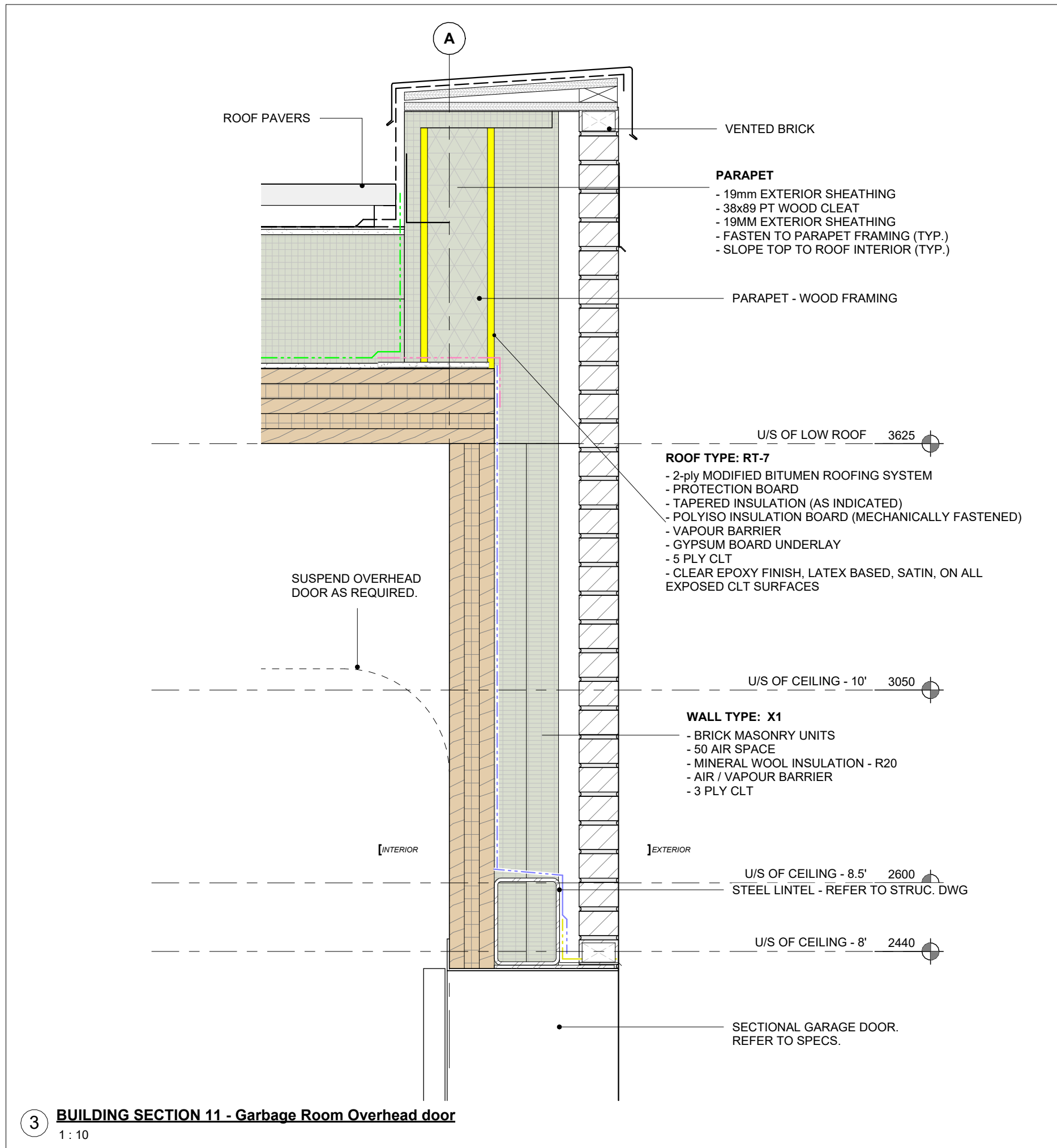
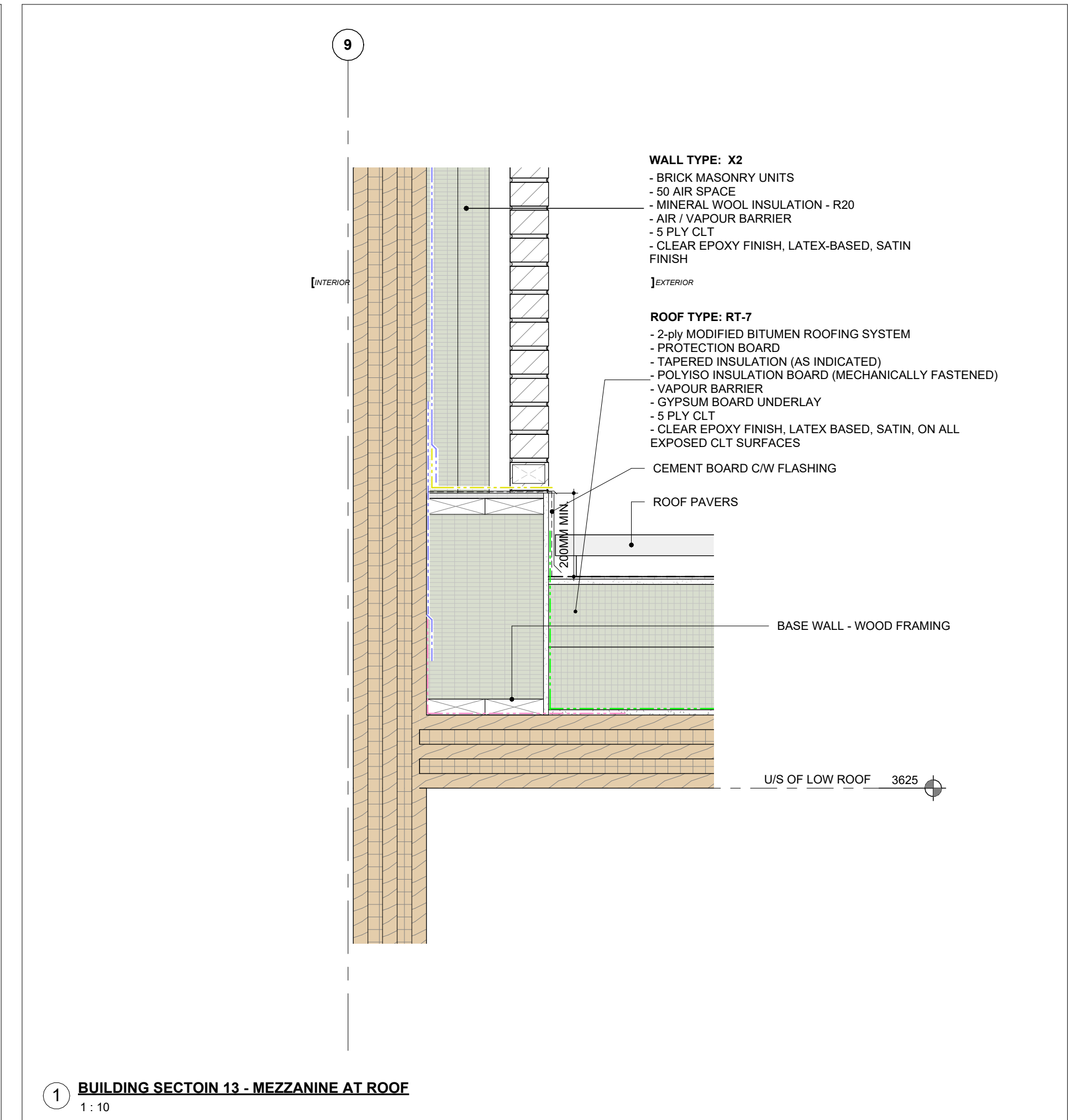


PROFESSIONAL SEAL

SECTION DETAILS

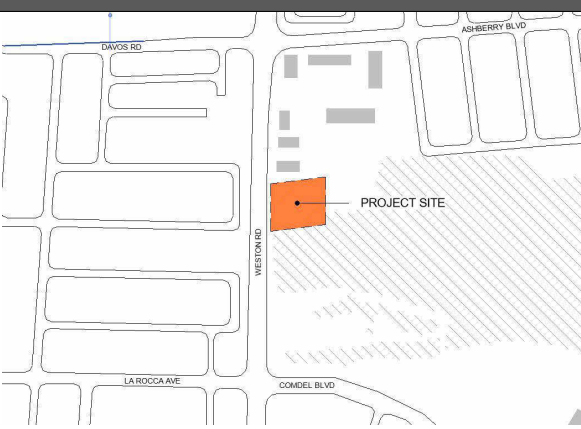
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DATE	2021-11-24
SCALE	1 : 10
DRAWN BY	Author
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A8.4
REVISION	30



2024-09-09 4:10:43 PM

NO.	ISSUED FOR	DATE
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT :

CLIENT :

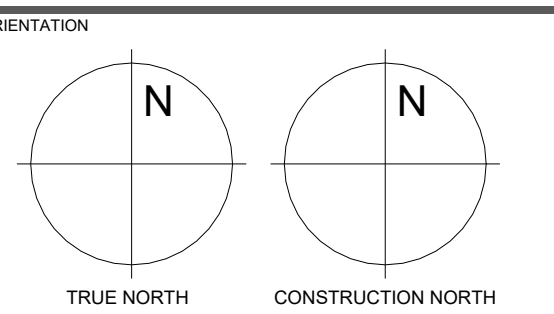


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ARCHITECT
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PROFESSIONAL SEAL

DWG TITLE
**APPARATUS BAY
AXO VIEW**



DATE
2021-11-24

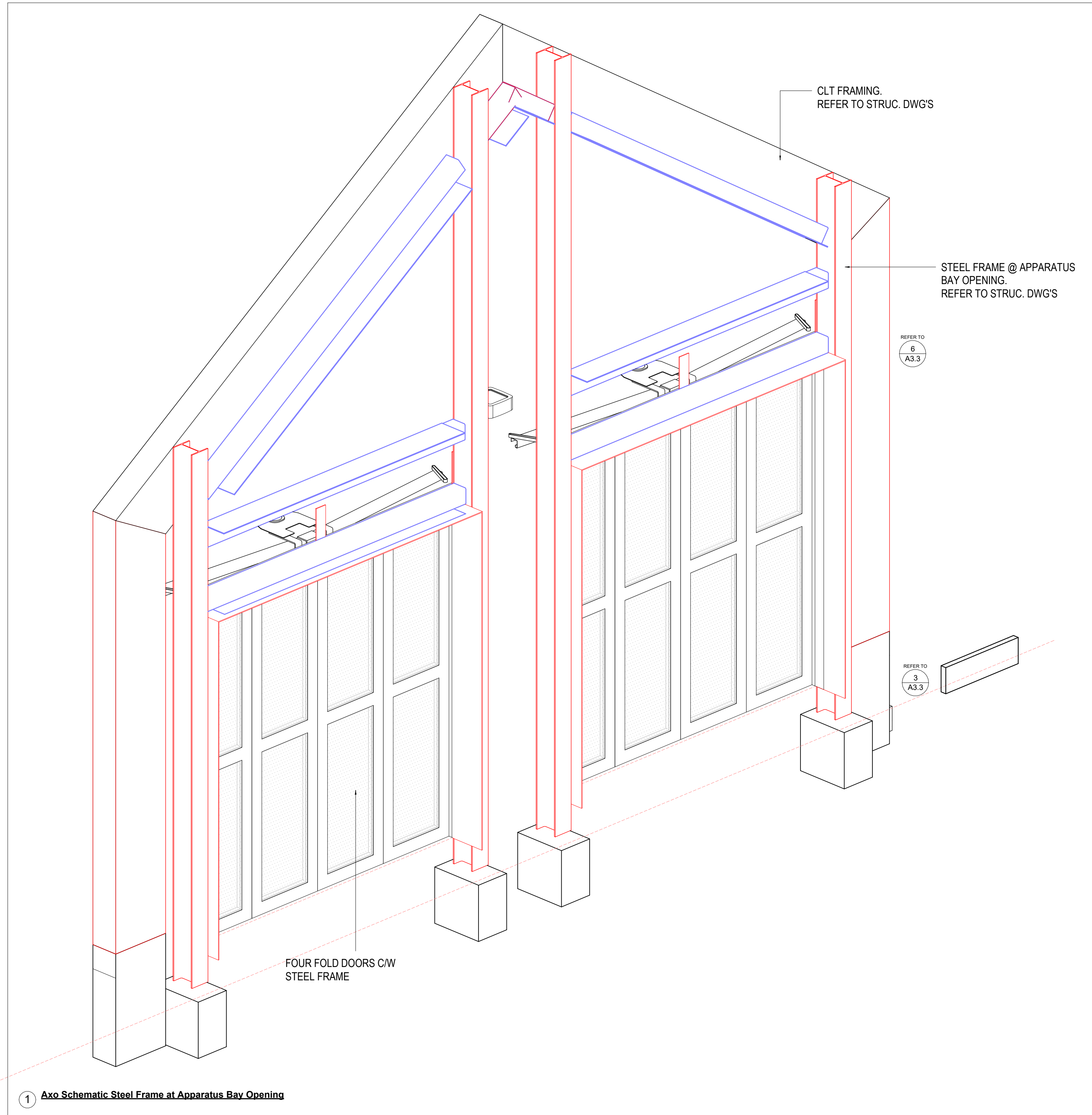
SCALE
DRAWN BY
Author

DWG STATUS
TENDER

PROJECT No.
2104

DRAWING No.
A8.5

REVISION
30



① Axo Schematic Steel Frame at Apparatus Bay Opening

2024-09-09 4:10:44 PM

NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
16	DD CLIENT REVIEW	2023-07-24
19	ISSUED FOR PERMIT	2023-09-15
24	ISSUED FOR RFP/Q	2023-10-19
24	ISSUED FOR CLASS A	2024-02-18
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

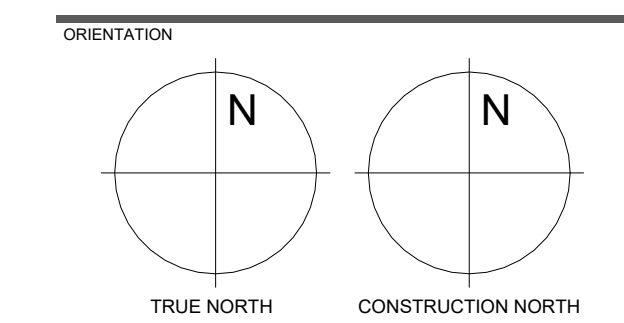
9511 WESTON ROAD, VAUGHAN

CLIENT: **VAUGHAN**

ARCHITECT: **THOMASBROWNARCHITECTS**
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

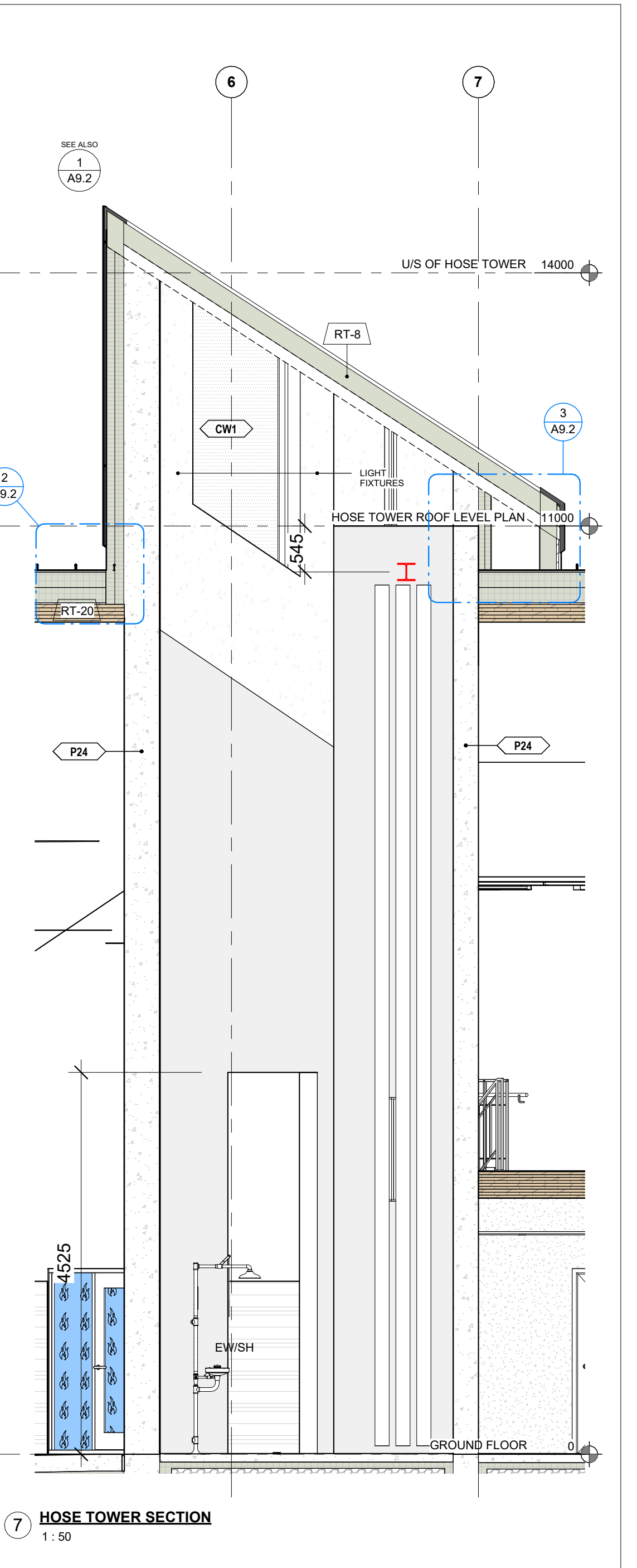
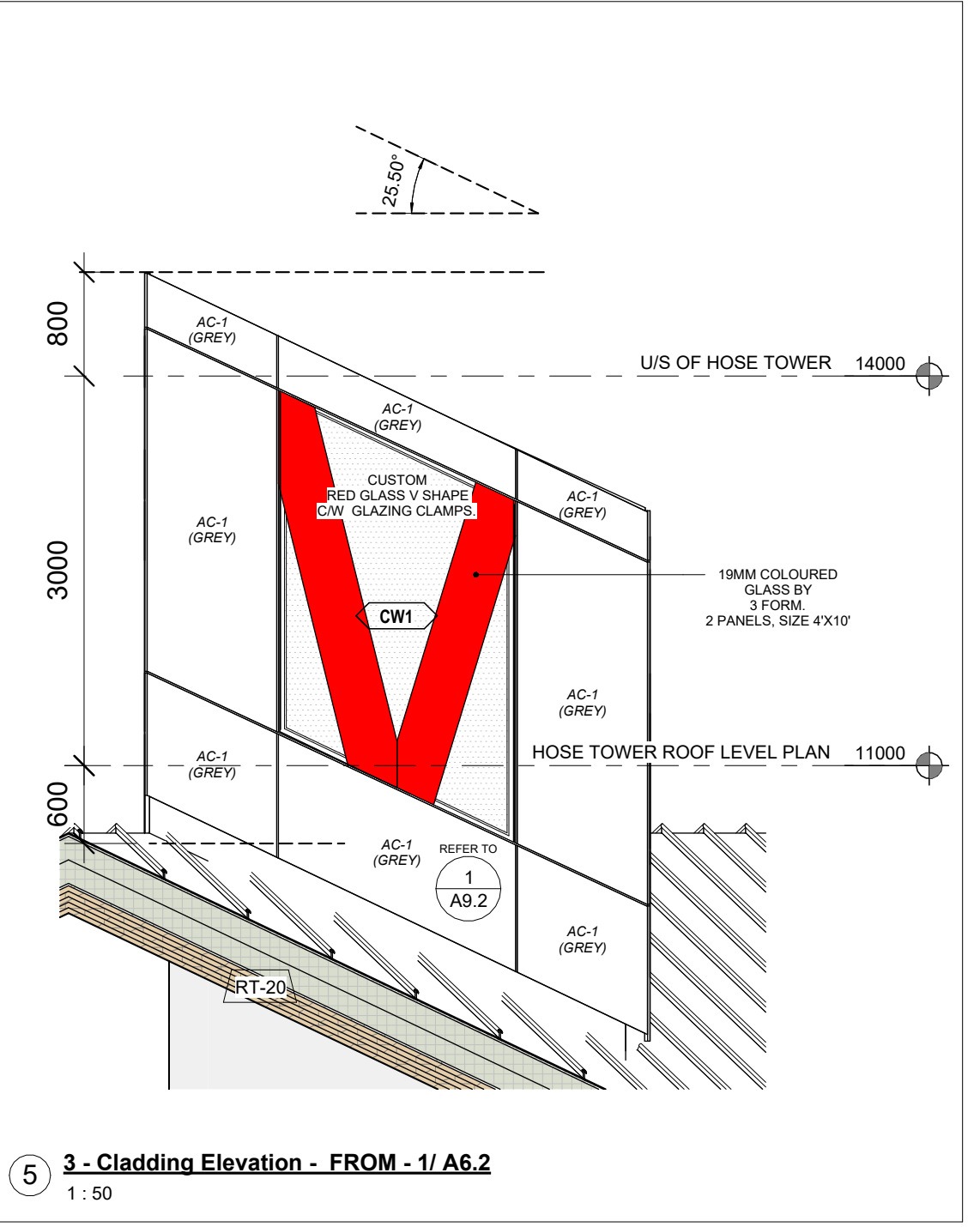
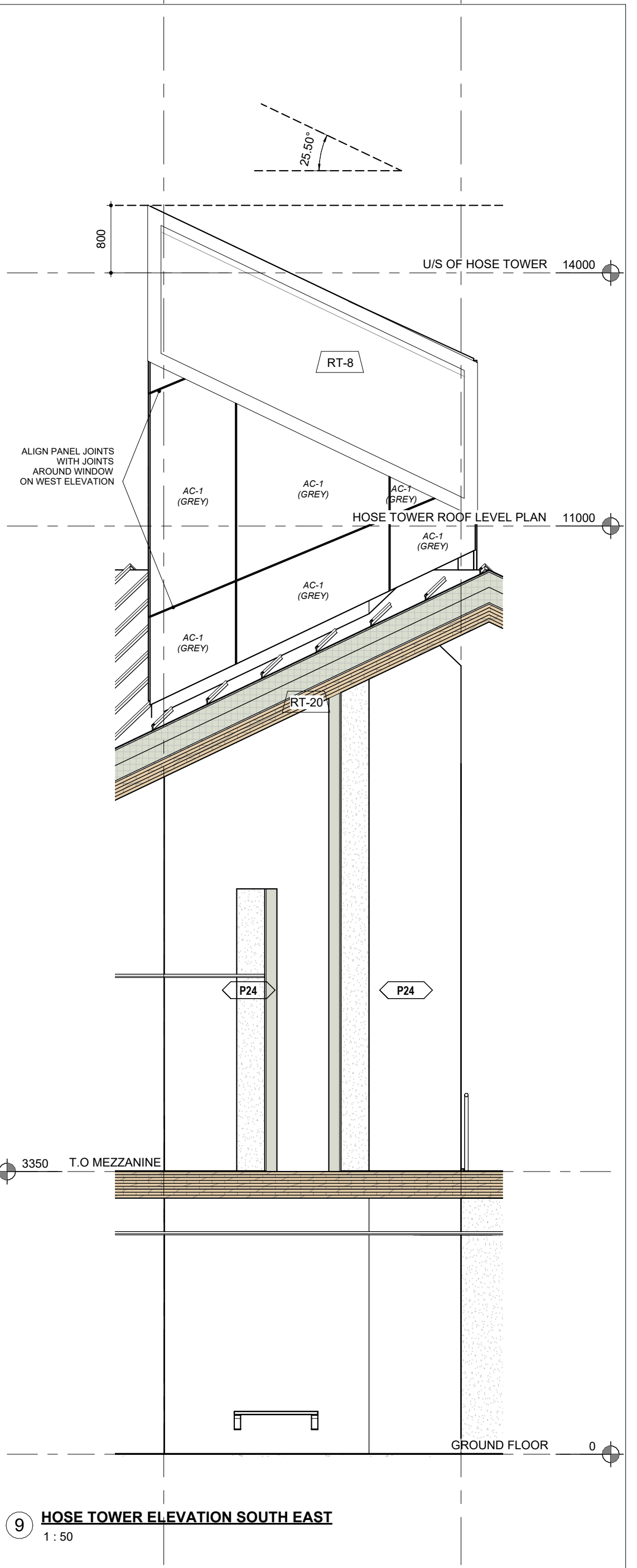
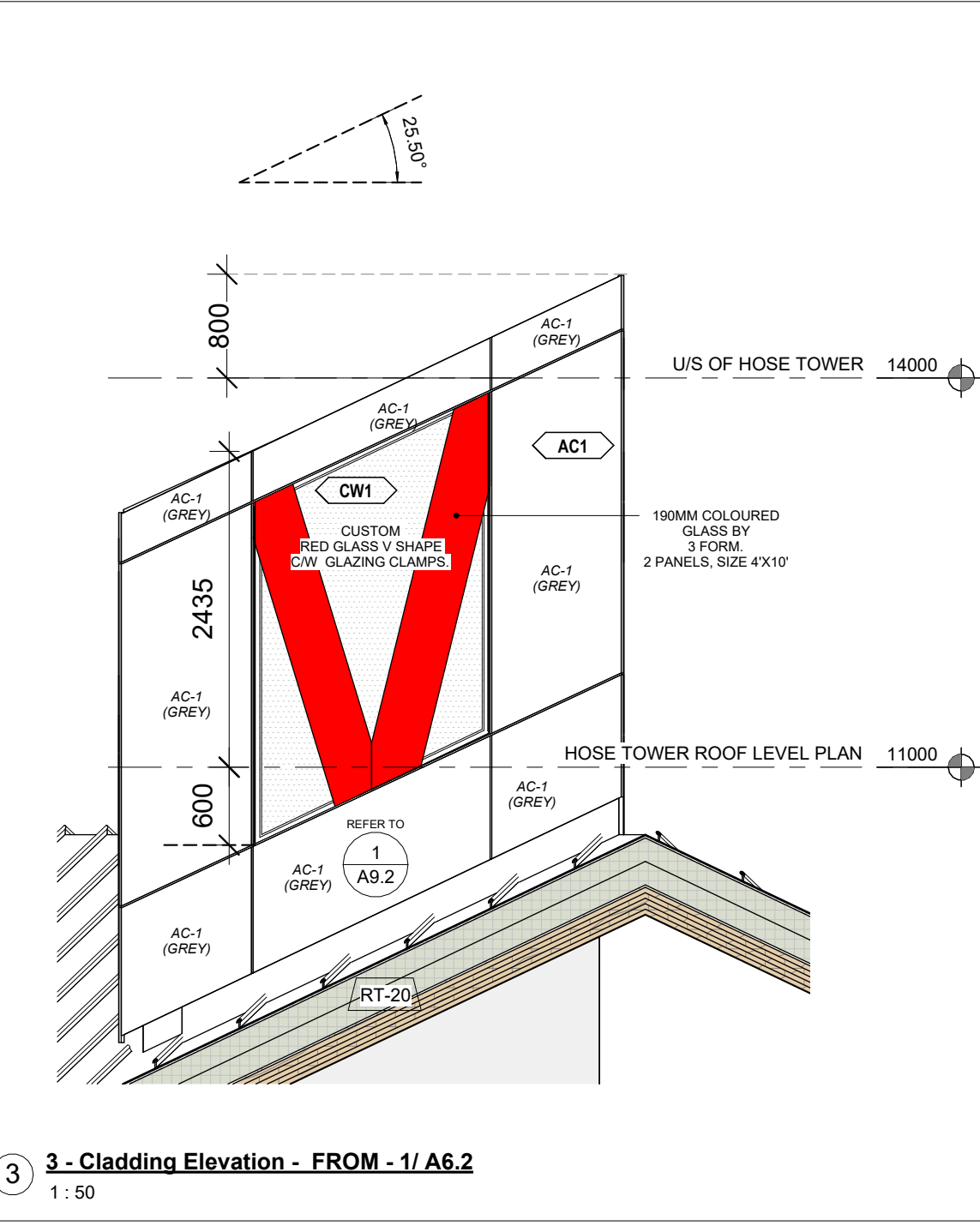
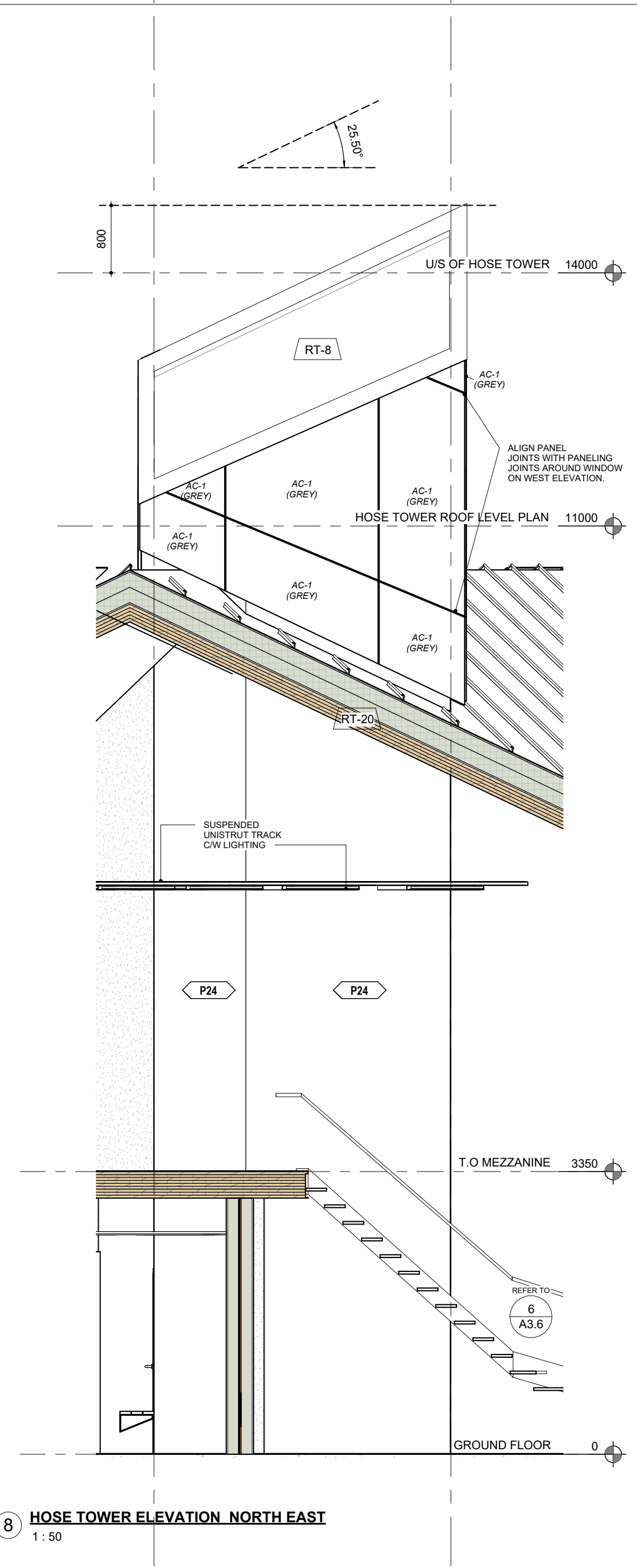
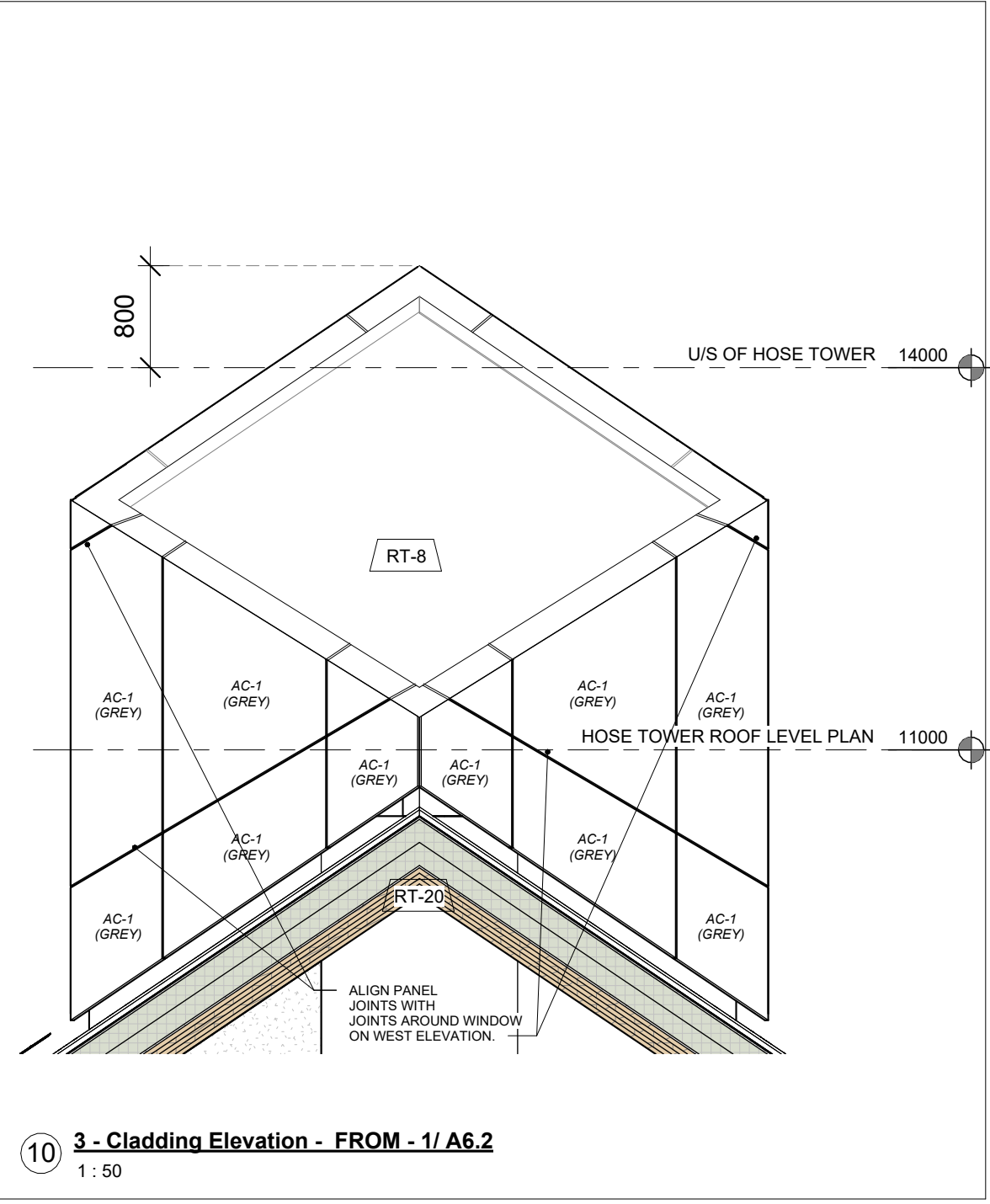
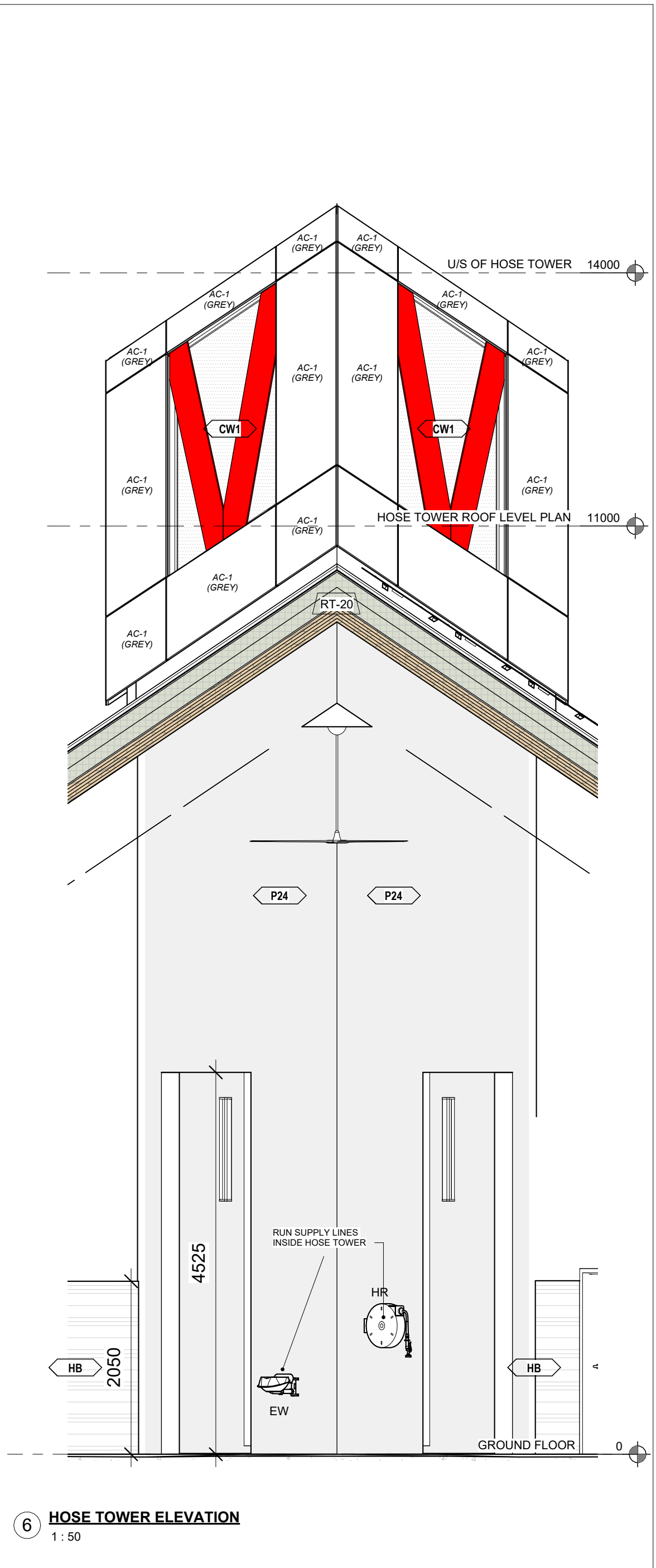
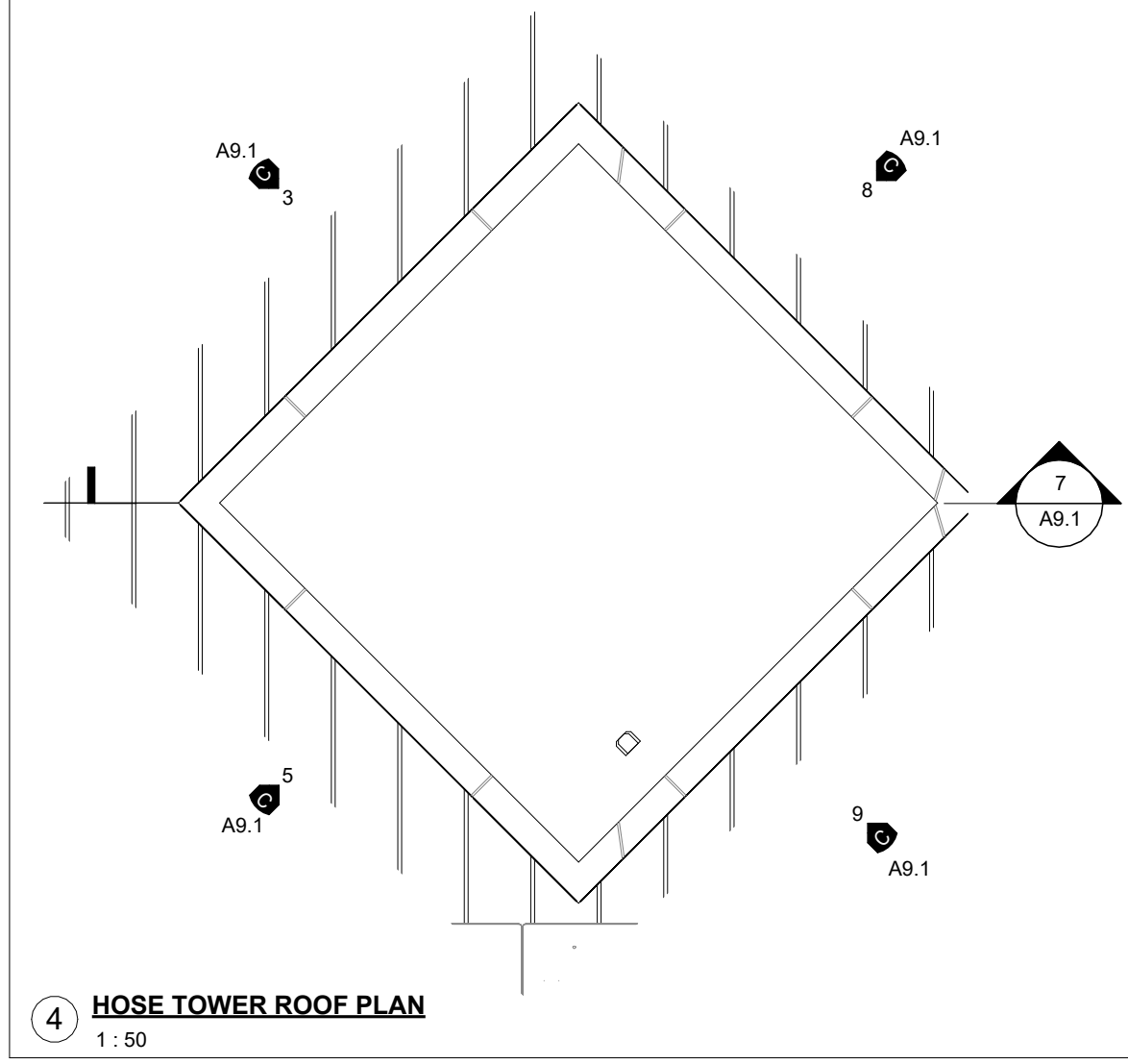
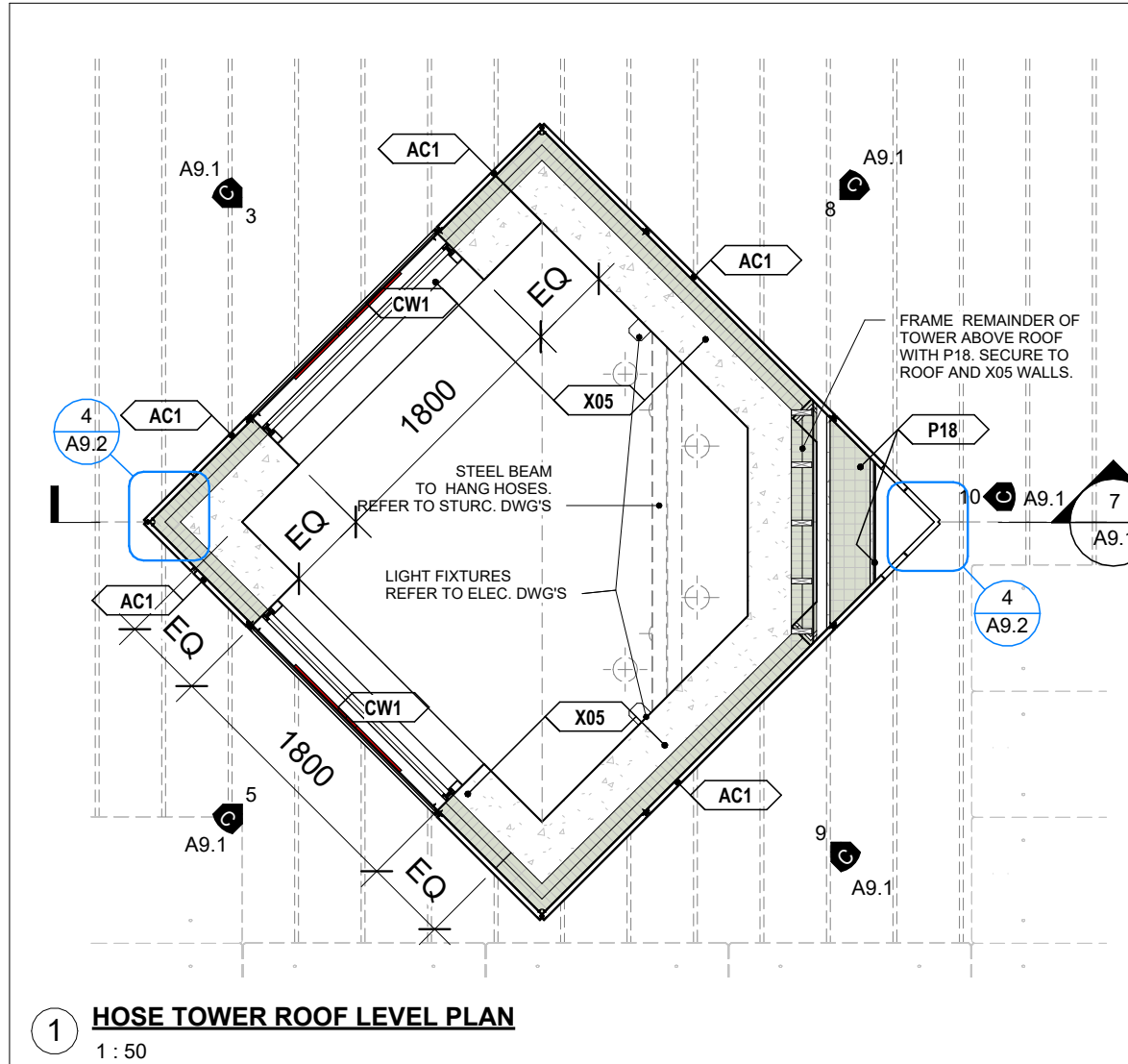
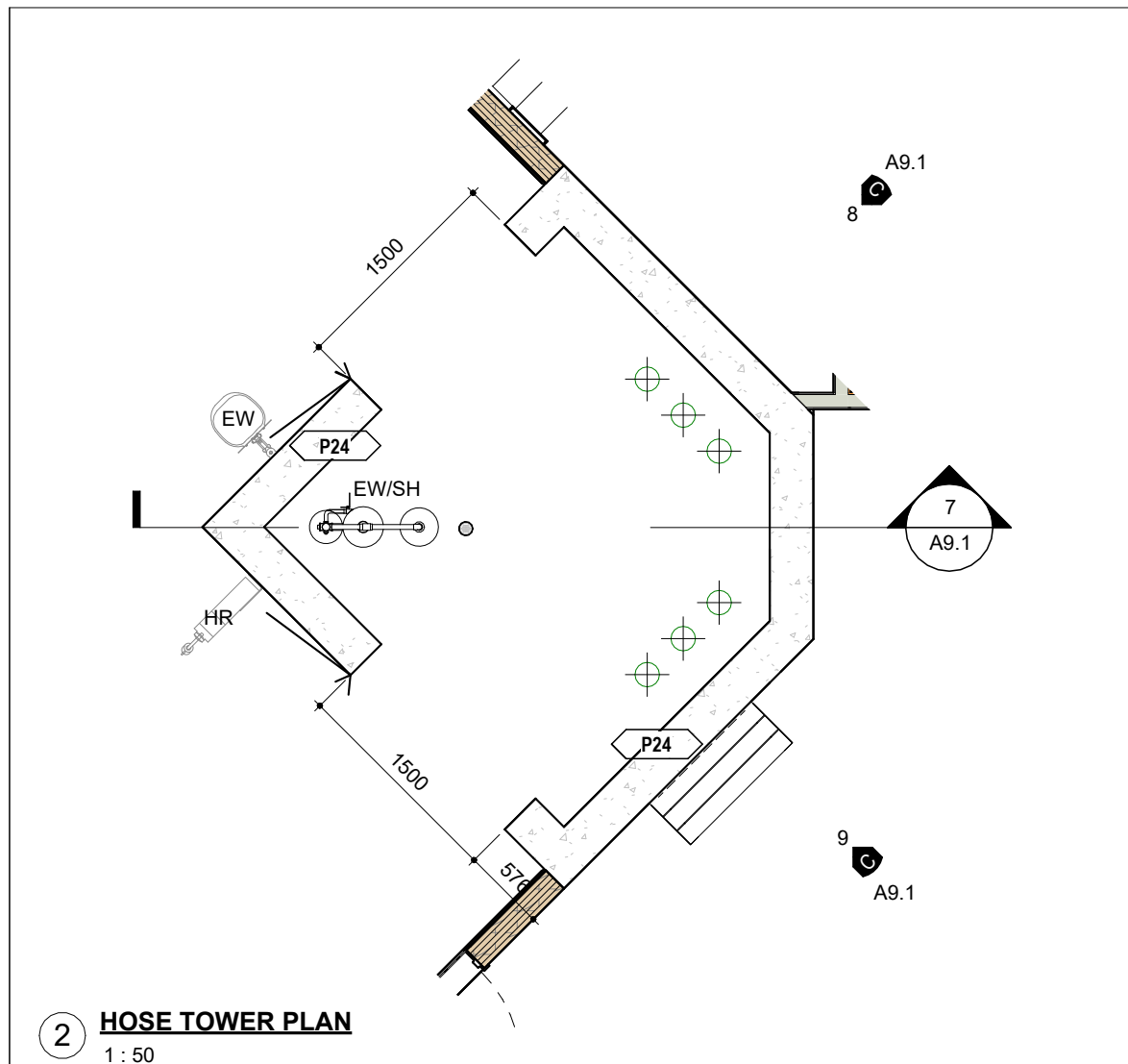
PROFESSIONAL SEAL

HOSE TOWER PLAN AND SECTION

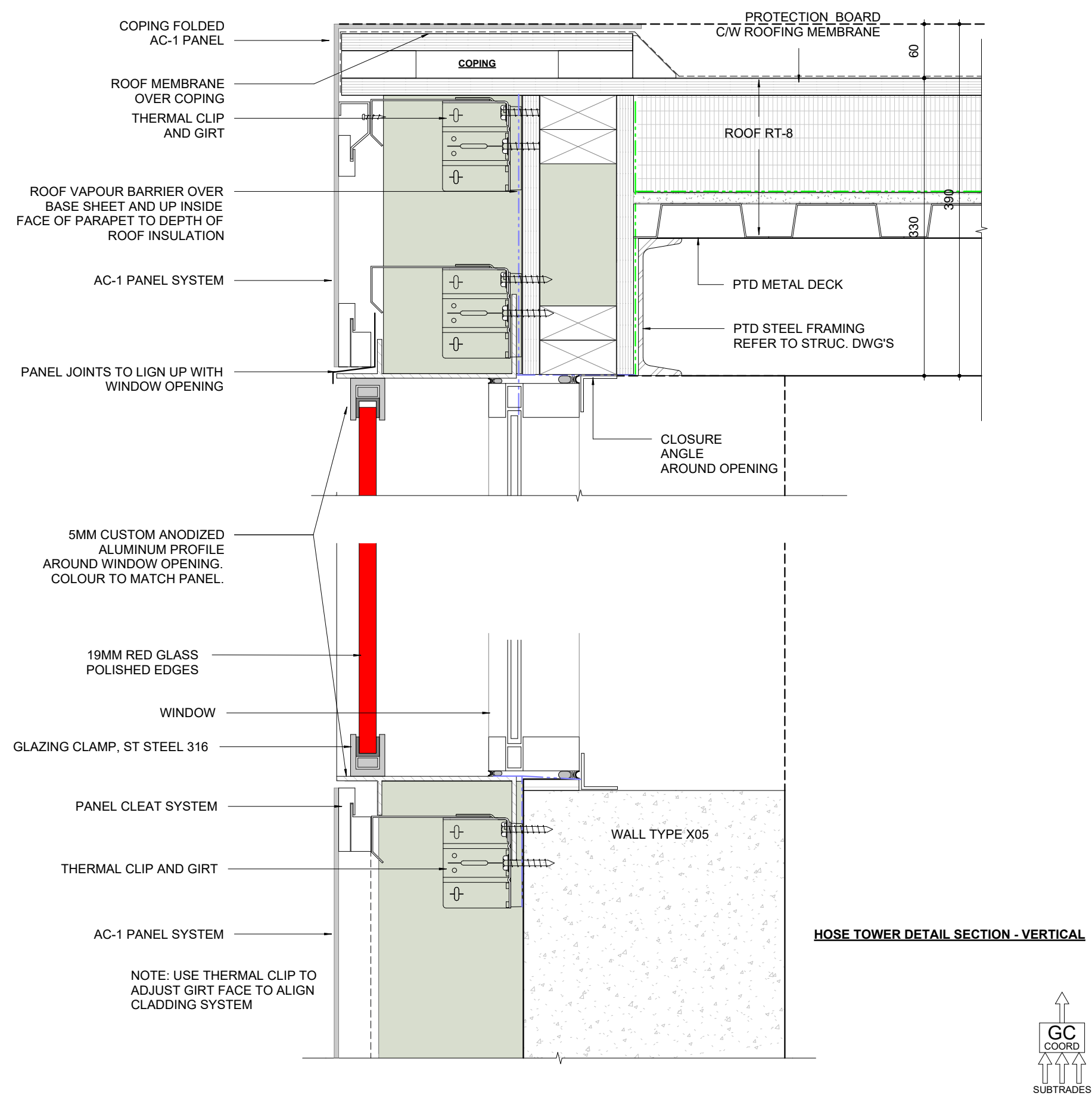


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DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A9.1
REVISION	30

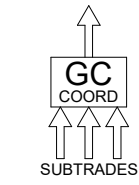
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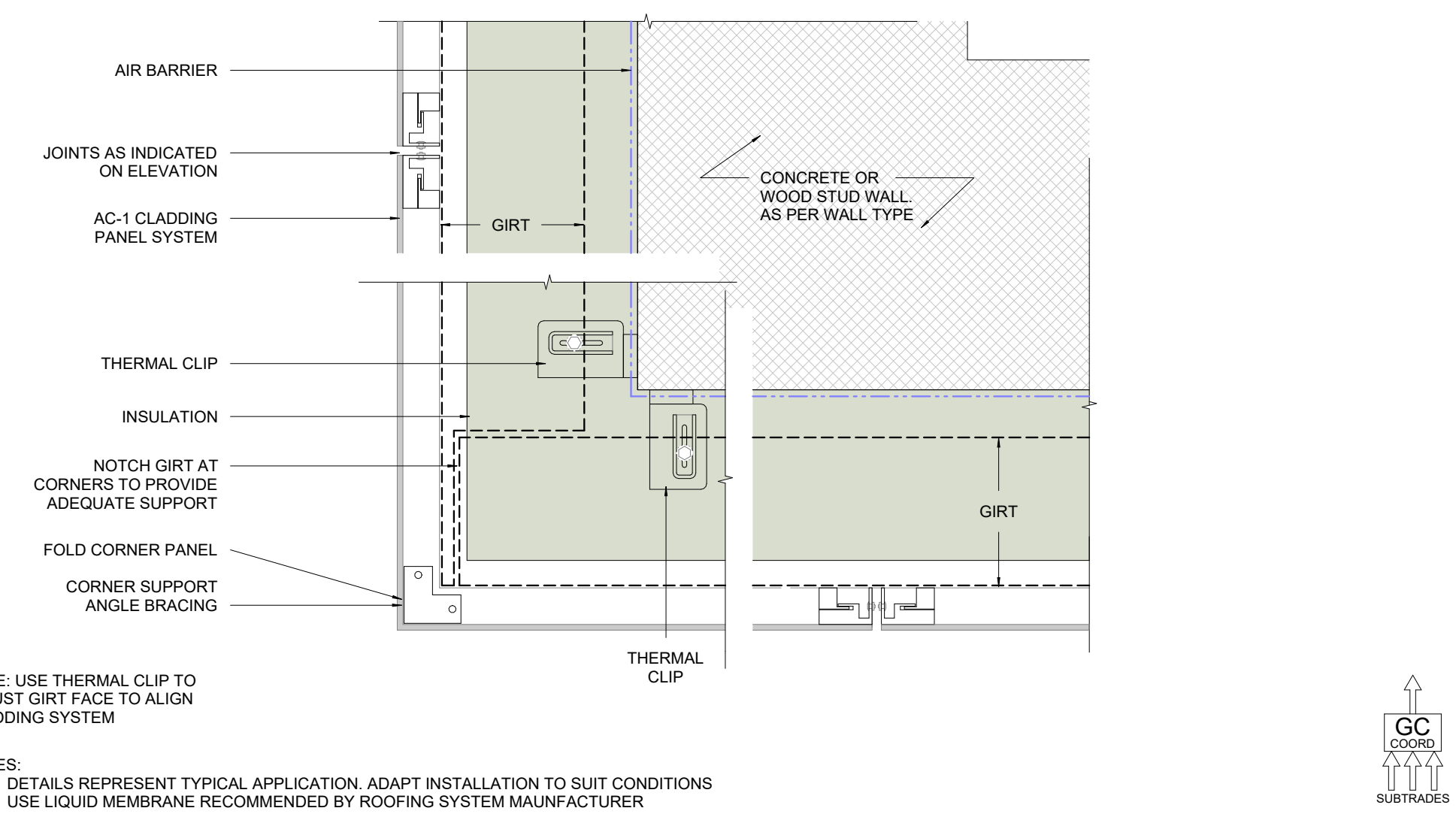
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2. USE LIQUID MEMBRANE RECOMMENDED BY ROOFING SYSTEM MAUFACTURER



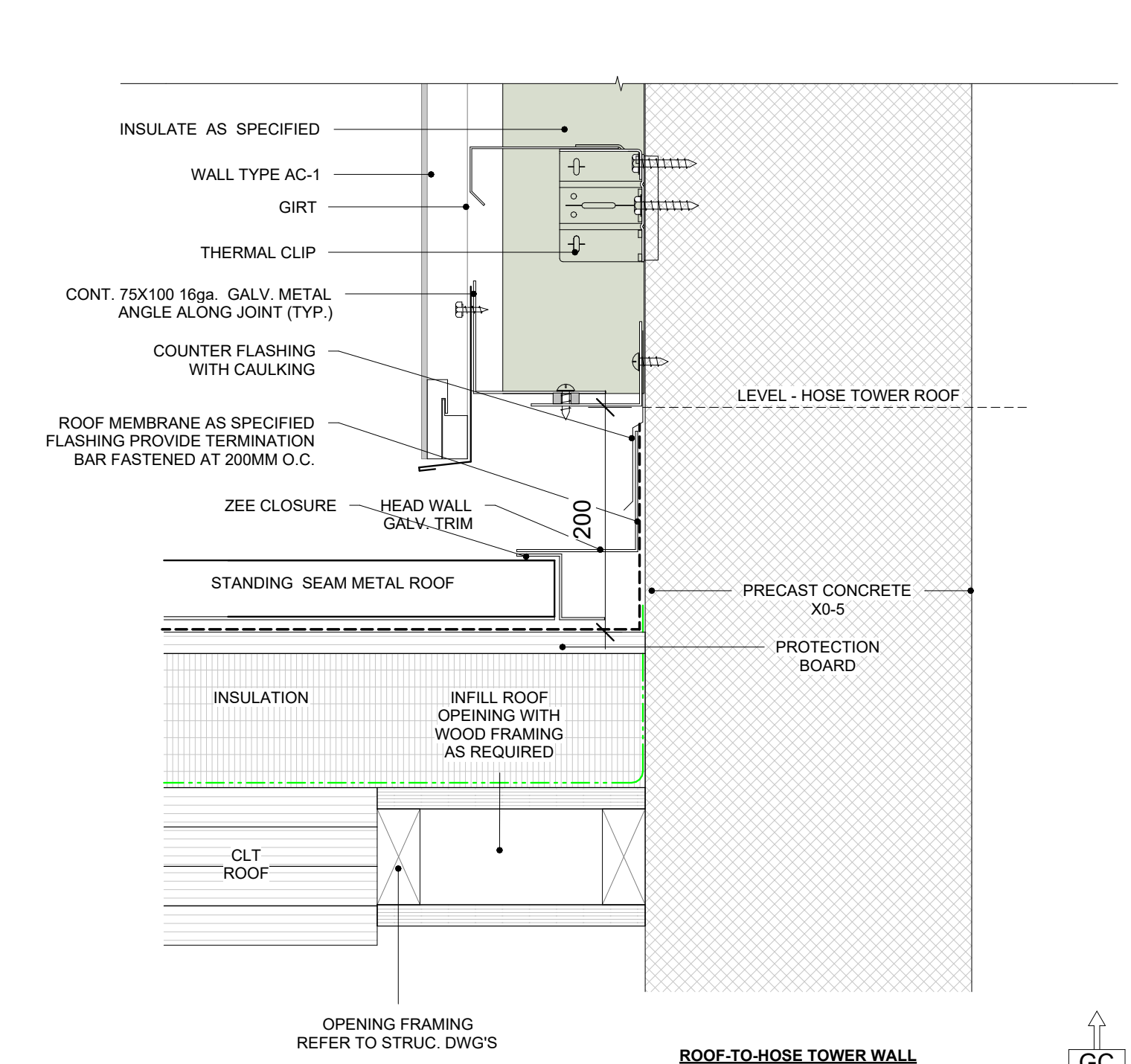
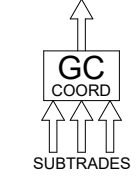
HOSE TOWER DETAIL SECTION - VERTICAL



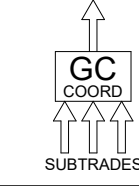
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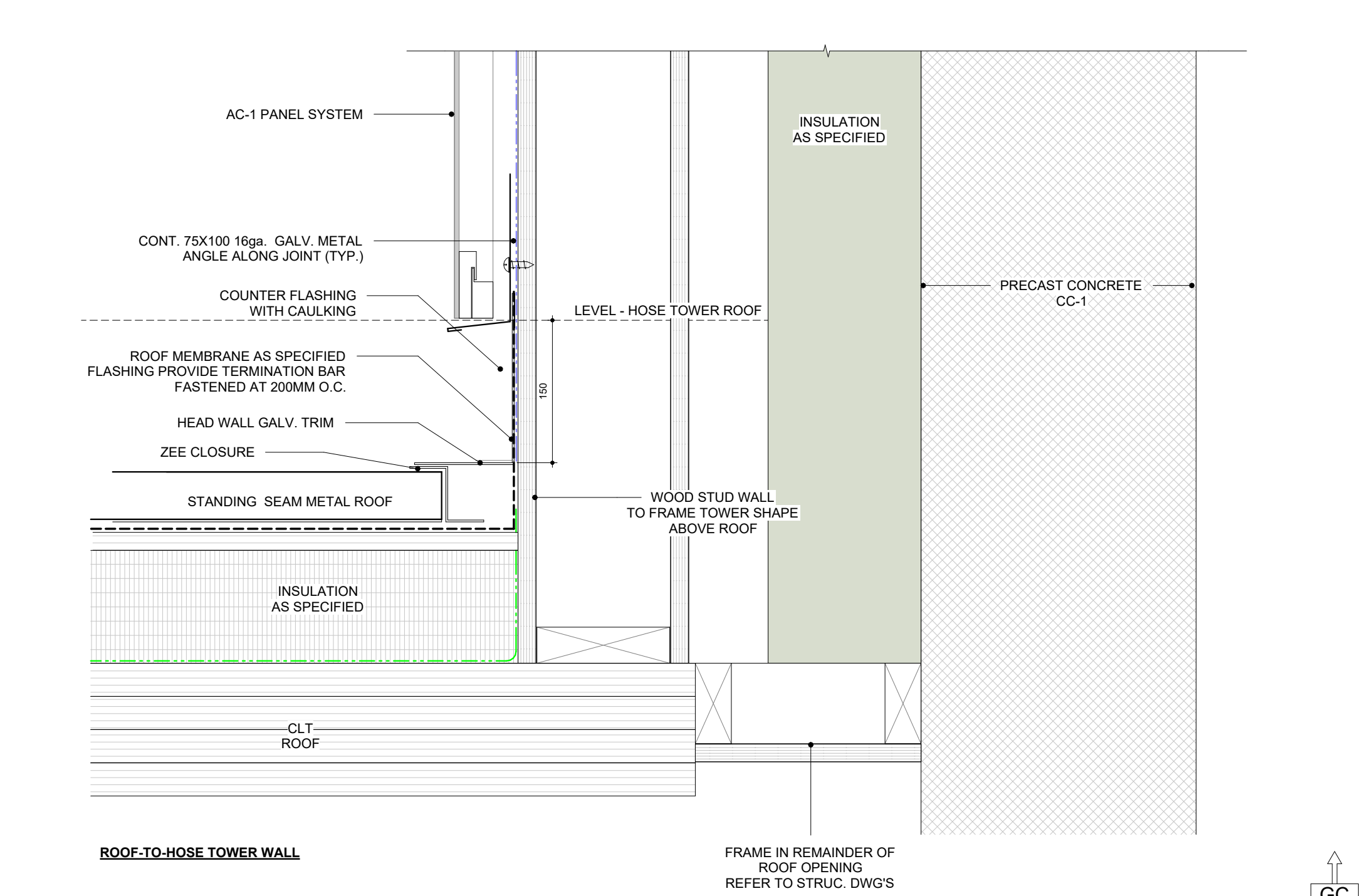
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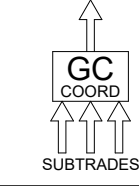
ROOF-TO-HOSE TOWER WALL



NOTES:
1. DETAILS REPRESENT TYPICAL APPLICATION. ADAPT INSTALLATION TO SUIT CONDITIONS
2. USE LIQUID MEMBRANE RECOMMENDED BY ROOFING SYSTEM MAUFACTURER



ROOF-TO-HOSE TOWER WALL



NOTES:
1. DETAILS REPRESENT TYPICAL APPLICATION. ADAPT INSTALLATION TO SUIT CONDITIONS
2. USE LIQUID MEMBRANE RECOMMENDED BY ROOFING SYSTEM MAUFACTURER

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ISSUE OR REVISION table with columns: NO., ISSUED FOR, DATE



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12 9511 WESTON ROAD, VAUGHAN



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ARCHITECT THOMASBROWNARCHITECTS 197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE HOSE TOWER DETAILS

ORIENTATION

DATE 2021-11-24

SCALE 1 : 5 DRAWN BY SRL

DWG STATUS TENDER

PROJECT No. 2104

DRAWING No. A9.2 REVISION 30

2024-09-09 4:11:03 PM

PNT-1	PAINT FINISH	- BENJAMIN MOORE - OC-65 - CHANTILLY LACE - INTERIOR ACRYLIC PAINT - EGGSHELL FINISH - WALLS AND EXPOSED STEEL UNLESS OTHERWISE NOTED - EXPOSED STEEL TO RECEIVE SATIN FINISH
PNT-2	PAINT FINISH	- BENJAMIN MOORE - OC-117 - SIMPLY WHITE - INTERIOR ACRYLIC PAINT - MATTE FINISH - ALL EXPOSED GYPSUM BOARD CEILINGS, UNLESS OTHERWISE NOTED
PNT-3	PAINT FINISH	- BENJAMIN MOORE - Z125-20 - DEEP SPACE - INTERIOR ACRYLIC PAINT - SATIN FINISH - ALL EXPOSED STEEL IN VEHICLE BAY CEILING (I.E. JOISTS AND DECK, CONDUITS, PIPES, ETC. REFER TO SPECIFICATIONS FOR COLOR FOR GAS AND SPRINKLER PIPES), SECTIONAL & FOUR FOLD DOOR JAMBS.
PNT-4	PAINT FINISH	- BENJAMIN MOORE - Z125-20 - DEEP SPACE - EXTERIOR/INTERIOR ACRYLIC PAINT - SATIN FINISH - ALL EXPOSED STEEL IN VEHICLE BAY CEILING (I.E. JOISTS AND DECK, CONDUITS, PIPES, ETC. REFER TO SPECIFICATIONS FOR COLOR FOR GAS AND SPRINKLER PIPES), SECTIONAL & FOUR FOLD DOOR JAMBS.

CT-1	FLOOR TILE	- DECO TILE - NUX SERIES - TAUPE 810 x 810 - GROUT MAPEI OR EQUIVALENT COLOUR TBD - BASE AT WALL: 100mm CT-1 BASE AT ALL WALL JUNCTIONS - GROUT JOINTS: 1.5mm
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CT-2	SHOWER FLOOR TILE	- OLYMPIA TILE - OD.QC.BLK.0202.FS - GROUT TO MATCH TILE COLOUR
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RSF-1	RESILIENT SPORTS FLOOR	- TUFLEX - SPARTUS 934 ROUGE - RUBBER BASE: JOHNSONITE MANDALAY-XX-H 4.5' 49 BEIGE
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C-SLD	SEALANT APPLIED TO CONCRETE BASE AND WALLS	- UP TO 2200MM AFF. - IN APPARATUS BAY AND HOSE TOWER
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CHC	SEALANT APPLIED TO CONCRETE	
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5 FLOOR FINISHES	1:25
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6 WALL FINISHES	1:25
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3 GROUND FLOOR FINISH PLAN 1:75

WT-1	10MM	WALL TILE	DECO TILE - NUX SERIES 16X32 - TAUPE GROUT: MAPEI OR EQUIVALENT - COLOUR TBD
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WT-5	6MM	CERAMIC TILE BACK SPLASH	IN KITCHEN AND LAUNDRY. REFER TO ELEVATIONS CERAGRES - HEXA 4" - BRICK RED
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HB	13MM	HIGH DENSITY POLYETHYLENE BOARD	- FACE SCREW, MECHANICALLY FASTEN
-----------	-------------	--	-----------------------------------

6 WALL FINISHES 1:25

10-0050 - IS-INTERIOR SIGNS

WAYFINDING INTERIOR SIGNAGE

TYPE DANSIGN CURVE

FONT FUTURA MEDIUM & FUTURA HEAVY

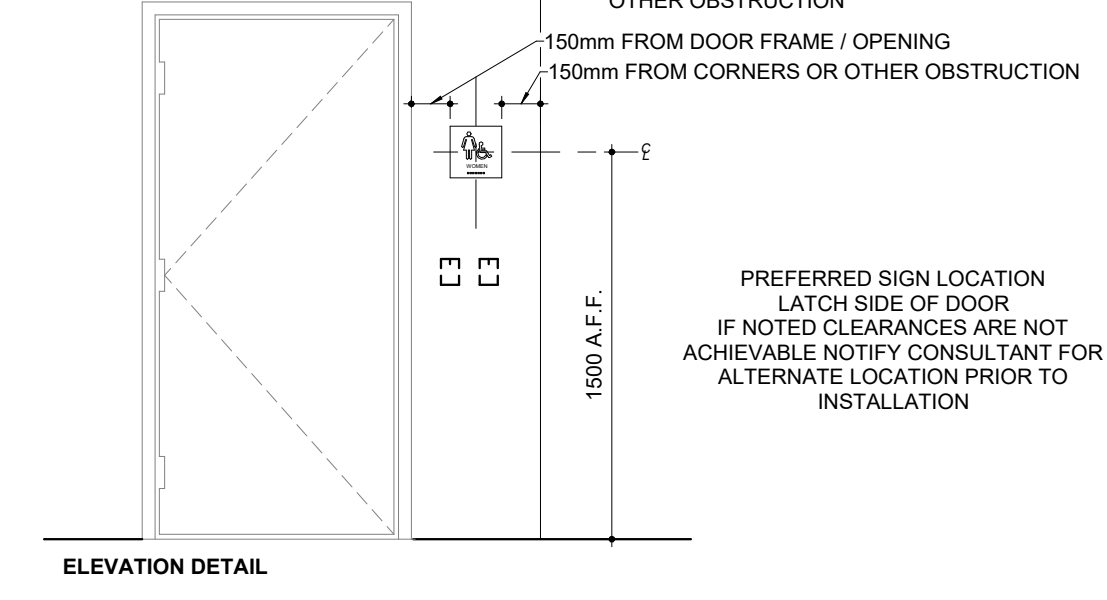
COLOR

- INTERIOR SIGNS SHALL BE BLUE BACKGROUND WITH WHITE TEXT AND GRAPHICS.
- SURFACE TO HAVE MATTE NON-GLARE FINISH

BRAILLE AND TACTILE LETTERS

- BRAILLE SHALL BE OF "RASTER" METHOD E.G. HOLES DRILLED AND BALL BEARINGS INSERTED SUITABLY ROUNDED FOR EASY READING
- BRAILLE DOTS MUST HAVE A DOMED OR ROUNDED SHAPE
- BRAILING PROCESS USED AND APPLIED ON SIGNAGE SHALL NOT BE SUSCEPTIBLE TO VANDALISM
- BRAILLE SHALL BE INTEGRAL TO SIGN SURFACE/DESIGN
- TACTILE SIGNS SHALL HAVE LETTERING AND GRAPHICS THAT ARE RAISED 0.8MM TO 1.5MM ABOVE THE SURFACE OF THE SIGN
- BRAILLE IS REQUIRED TO BE LOWERCASE, EXCEPT FOR PROPER NOUNS, NAMES AND THE FIRST WORD OF SENTENCES OR INDIVIDUAL LETTERS OF THE ALPHABET
- THE BRAILLE TEXT/CHARACTERS SHALL ALWAYS BE PLACED IN THE SAME RELATIVE POSITION, MOUNTED NEAR THE BOTTOM EDGE OF SIGNAGE, BELOW OTHER TEXT, SYMBOLS OR TACTILE CHARACTERS. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW ENTIRE TEXT
- ENSURE BRAILLE TEXT IS SEPARATED A MINIMUM OF 9.5MM FROM ANY OTHER TACTILE CHARACTERS
- WHERE TACTILE CHARACTERS ARE USED, ENSURE EDGES ARE BEVELED AND SMOOTH

NOTE: IT IS THE RESPONSIBILITY OF THE SIGN SUPPLIER TO VERIFY THAT A BRAILLE PROOFREADER HAS APPROVED FINAL ARTWORK. BRAILLE DOTS SHOWN IN THIS GUIDELINE ARE TO SHOW PLACEMENT ONLY



10-0050 - IS-INTERIOR SIGNS

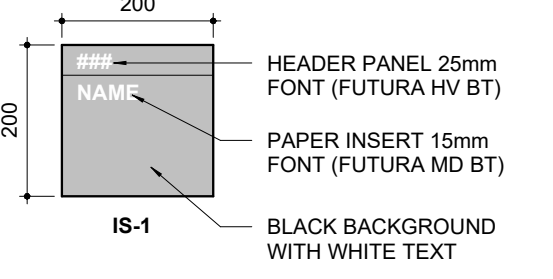
OFFICE/ROOM SIGNS (CHANGEABLE MESSAGE)

TYPE DANSIGN PAPERFLEX CURVE SIGN WITH A MAGNETIC LOCKING SYSTEM AND TAMPER PROOF PAPER INSERT SYSTEM

MATERIAL LACQUERED ABS WITH EXTRUDED ALUMINUM BRACKETS

MESSAGE VINYL ROOM NUMBER ON HEADER PANEL AND PAPER INSERT WITH ROOM NAME OR OCCUPANT'S NAME

INSTALLATION MOUNTED AT 1500MM TO CENTRELINER ABOVE THE FINISHED FLOOR AND 150MM AWAY FROM THE DOOR FRAME - LATCH SIDE (SEE ELEVATION DETAIL)

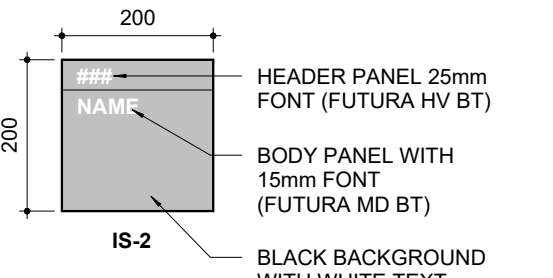


ROOM SIGNS (PERMANENT MESSAGE)

MATERIAL LACQUERED ABS WITH EXTRUDED ALUMINUM BRACKETS

MESSAGE VINYL ROOM NUMBER ON HEADER PANEL AND VINYL ROOM NAME ON BODY PANEL

INSTALLATION MOUNTED AT 1500MM TO CENTRELINER ABOVE THE FINISHED FLOOR AND 150MM AWAY FROM THE DOOR FRAME - LATCH SIDE (SEE ELEVATION DETAIL)

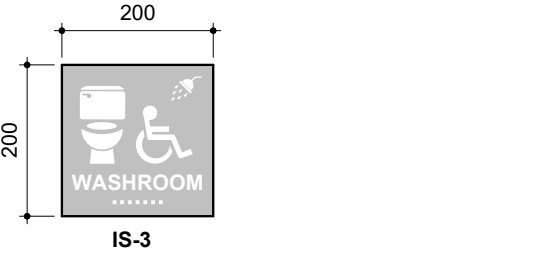


WASHROOM SIGNS

MATERIAL LACQUERED ABS WITH EXTRUDED ALUMINUM BRACKETS

MESSAGE TACTILE TEXT AND PICTOGRAM AND BRAILLE

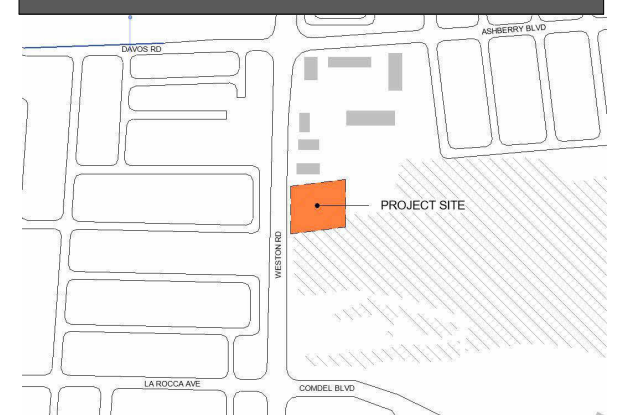
INSTALLATION MOUNTED AT 1500MM TO CENTRELINER ABOVE THE FINISHED FLOOR AND 150MM AWAY FROM THE DOOR FRAME - LATCH SIDE (SEE ELEVATION DETAIL)



1 GENERAL NOTES - FLOOR FINISHES

- ALL INTERIOR FINISHES SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE (LATEST REVISION); THE TERRAZZO, TILE & MARBLE ASSOCIATION OF CANADA (TTMAC) AND AUTHORITIES HAVING JURISDICTION.
- REFER TO ROOM FINISH SCHEDULE FOR FLOOR AND BASE FINISHES.
- ALL FLOOR FINISHES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND PROJECT SPECIFICATION.
- FLOOR TILES ARE TO BE INSTALLED IN PATTERNS AS INDICATED.
- WHERE TILES ARE INDICATED TO BE INSTALLED IN A RUNNING BOND PATTERN, INSTALL IN A 1/5 RUNNING BOND PATTERN (20% OVERLAP) TO REDUCE LIPPAGE AS DEFINED BY TTMAC.
- MOVEMENT JOINTS SHALL BE IN ACCORDANCE WITH TTMAC DOCUMENT 301M- (CURRENT REVISION), UNLESS OTHERWISE NOTED. ALL FLOOR FINISHES TO BE INSTALLED PRIOR TO INSTALLATION OF MILLWORK.
- NO SUBSTITUTIONS OF FLOOR FINISHES PERMITTED WITHOUT CONSULTANT WRITTEN APPROVAL. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL FLOOR FINISHES FOR THE DURATION OF THE WORK.
- CONTRACTOR TO PROVIDE PROTECTION OF ALL FINISHED CONCRETE FLOORS USING PREMANUFACTURED CARDBOARD TEMPORARY FLOOR PROTECTION (OR APPROVED EQUIVALENT) FOR THE DURATION OF THE WORK.
- CONTRACTOR TO PROVIDE PROTECTION OF ALL FINISHED TILED FLOORS USING PREMANUFACTURED CARDBOARD TEMPORARY FLOOR PROTECTION (OR APPROVED EQUIVALENT) FOR THE DURATION OF THE WORK.
- CHANGES IN FLOOR FINISH AT DOOR OPENINGS SHALL OCCUR UNDERNEATH THE DOOR (IN THE CLOSED POSITION) UNLESS OTHERWISE NOTED. WHERE THERE IS AN OPENING WITH NO DOOR, CHANGES IN FLOOR FINISH SHALL OCCUR AT THE MIDPOINT OF THE OPENING.
- UNLESS NOTED OTHERWISE, TILE BASES SHALL BE 100MM HIGH MEASURED FROM THE ADJACENT FINISHED FLOOR.
- WHERE A CHANGE OF FLOORING MATERIAL THICKNESS OCCURS, FEATHER FLOOR AS REQUIRED.

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
16	DD CLIENT REVIEW	2023-07-24
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
29	ADDENDUM #4	2024-05-30
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN
FIRE STATION 7-12
9511 WESTON ROAD, VAUGHAN

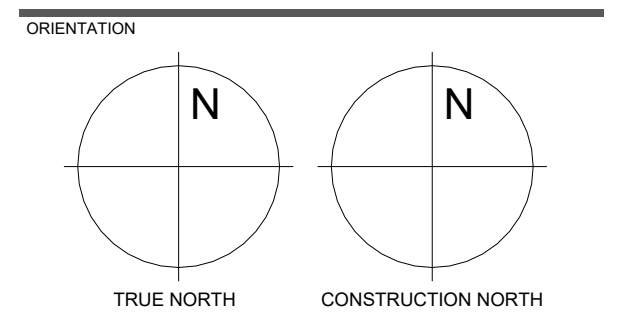


THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT: THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 505 1 TORONTO ONTARIO M5T 2C8

PROFESSIONAL SEAL

FLOOR FINISH AND FURNITURE PLAN



DATE	2021-11-24
SCALE	As indicated
DRAWN BY	SRL
DWG STATUS	TENDER
PROJECT NO.	2104
DRAWING NO.	A10.1
REVISION	30

2024-09-09 4:11:20 PM

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
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26	T24-253 - IFC	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT :

CLIENT :



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

FLOOR PLAN FINISH PLAN AND DETAILS

ORIENTATION

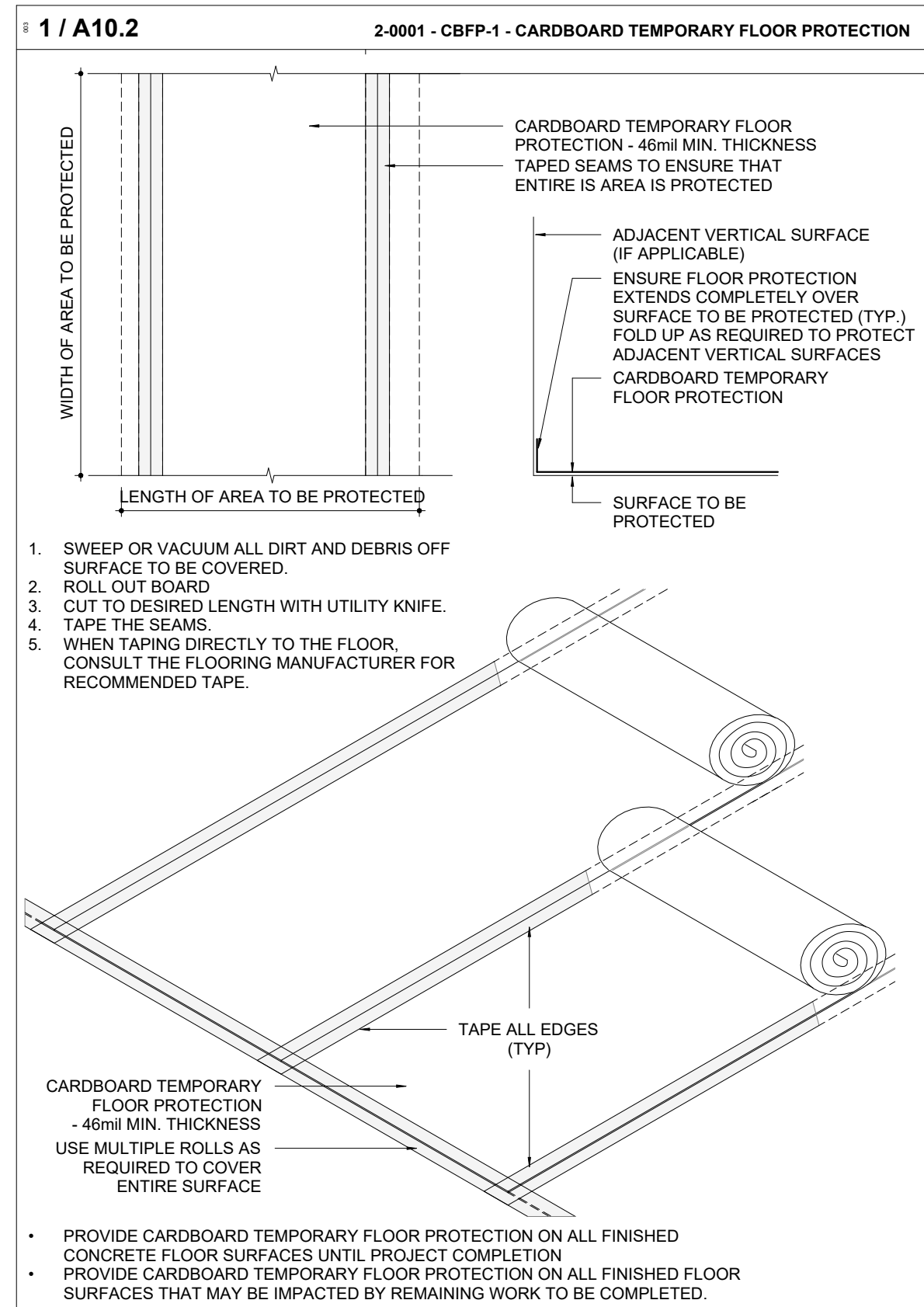
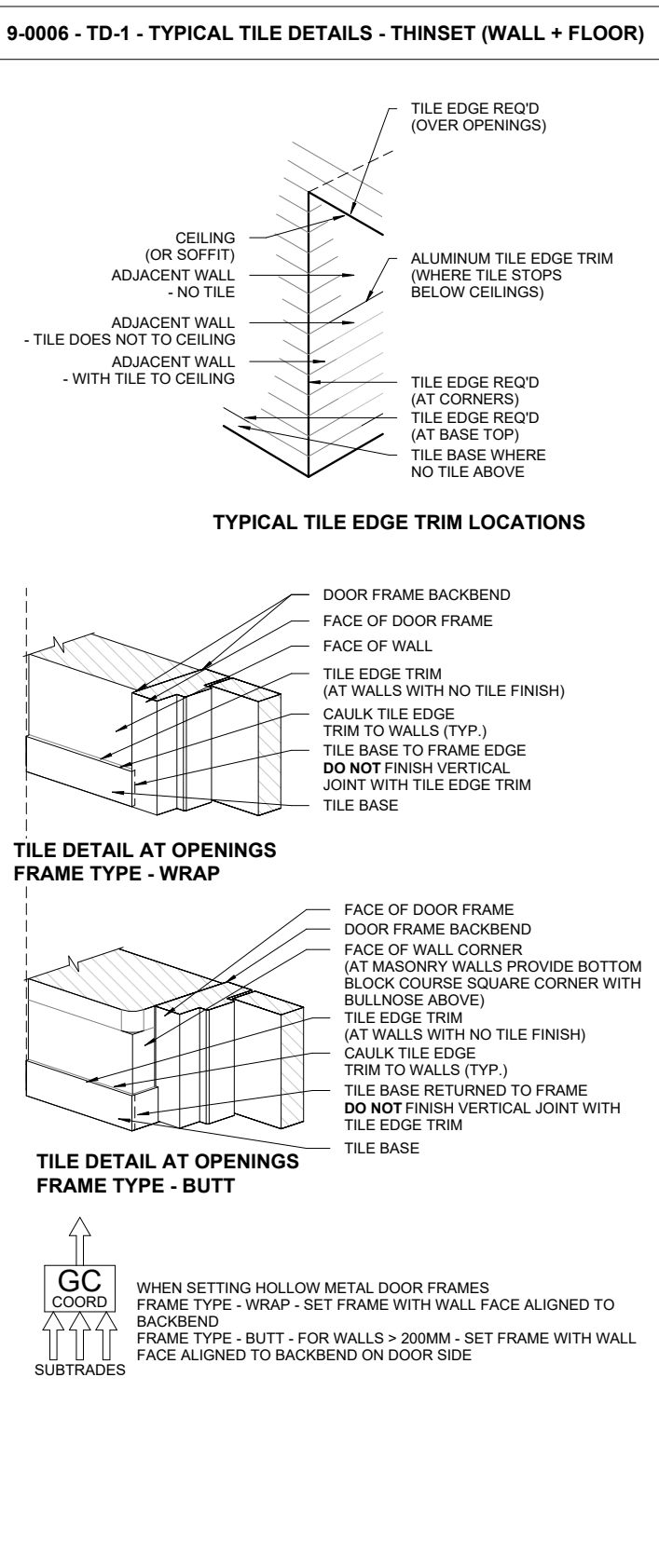
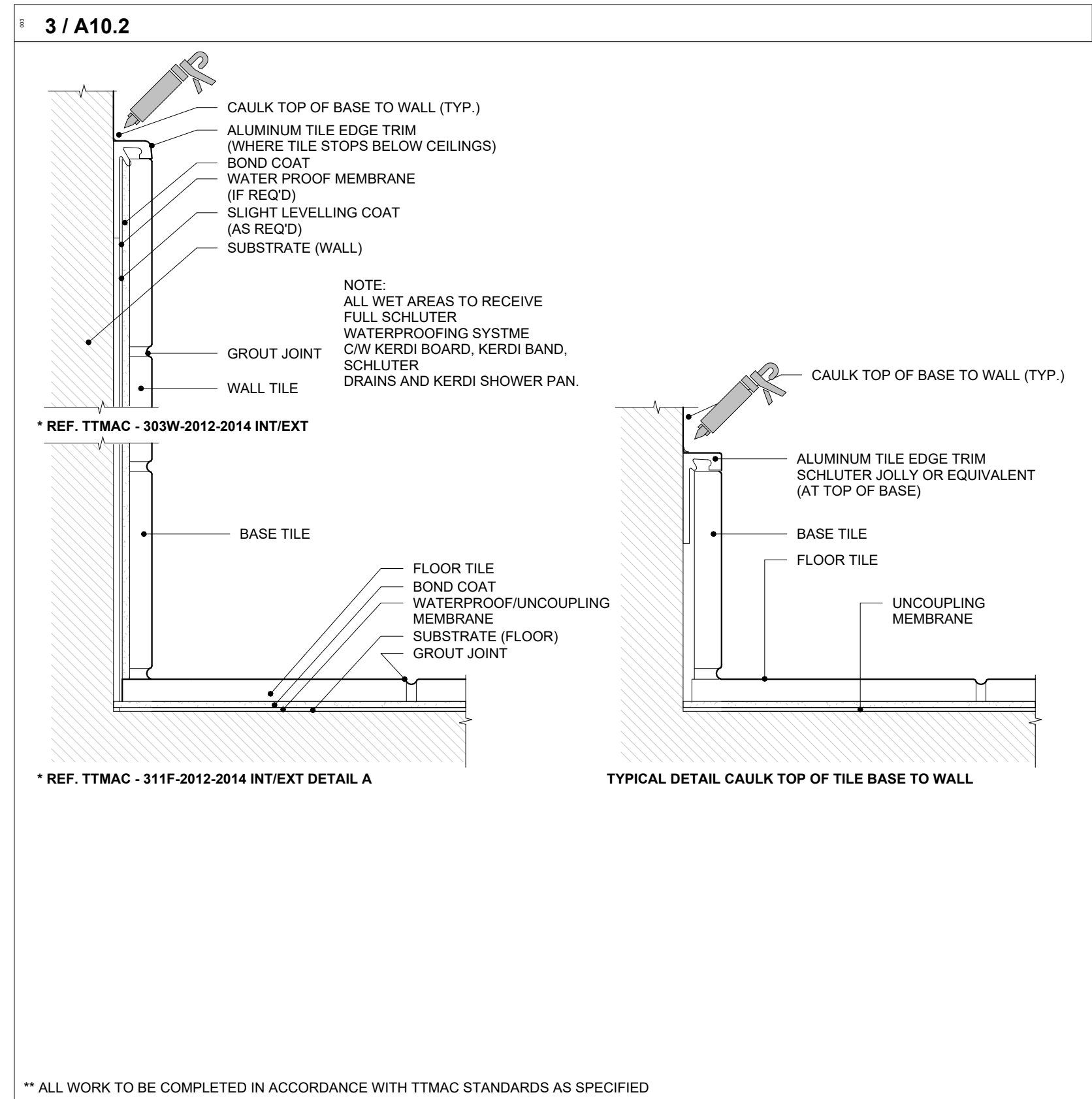
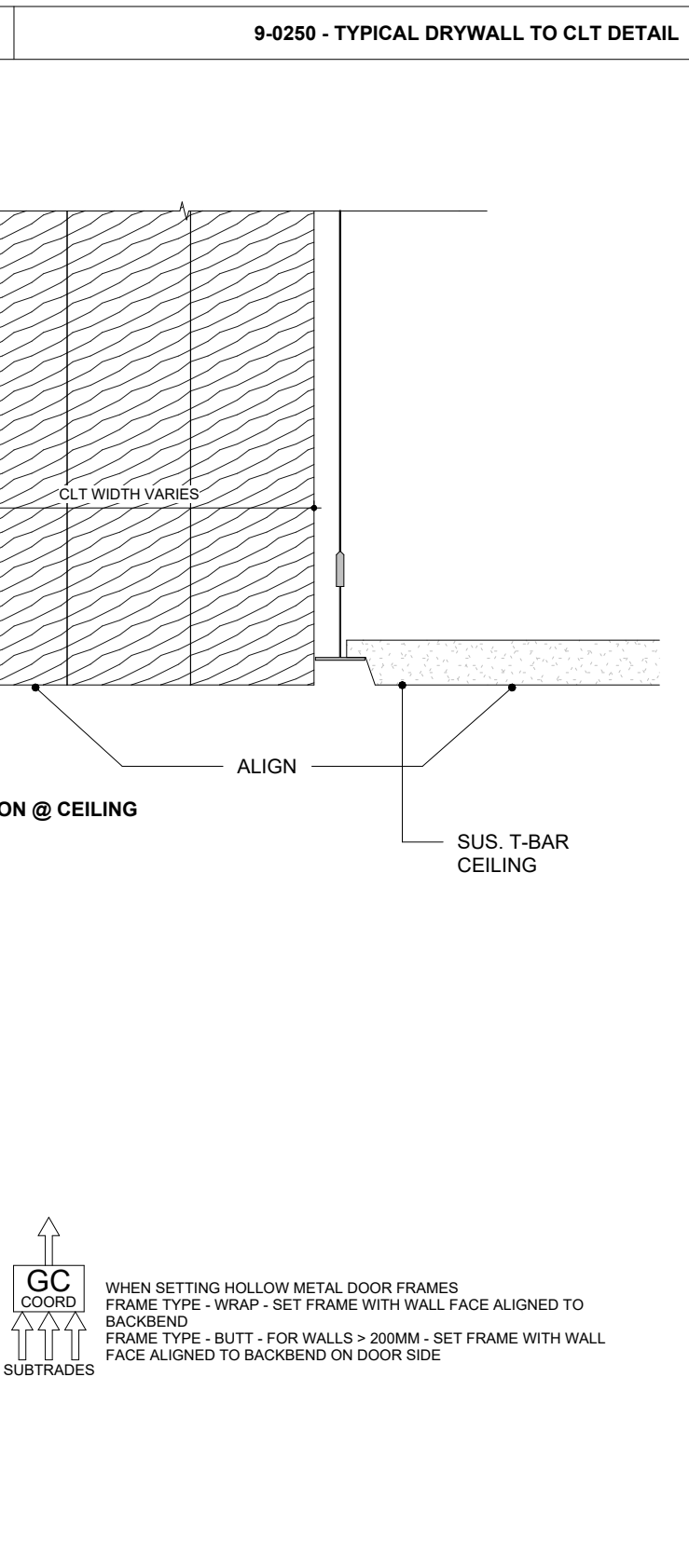
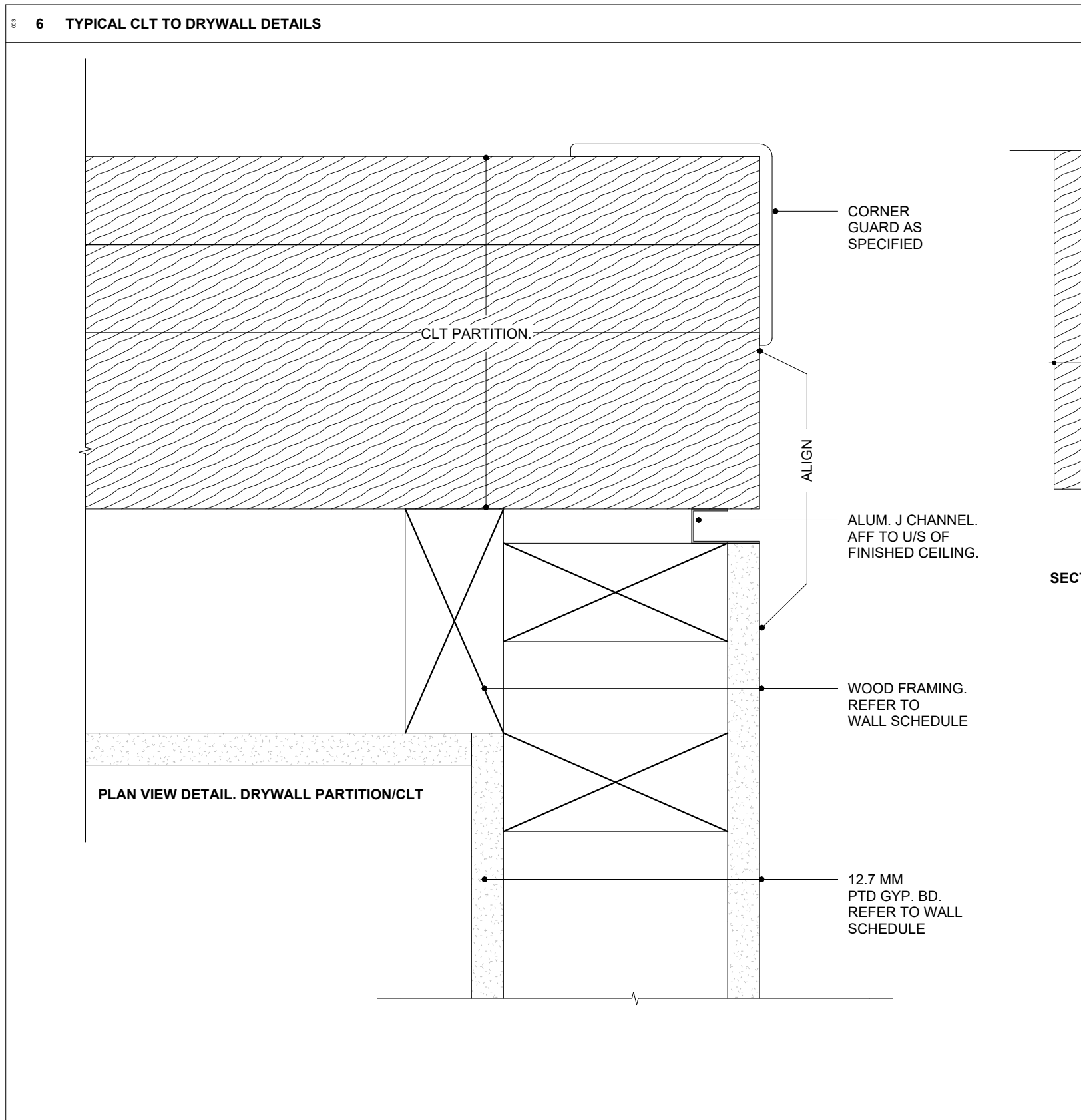
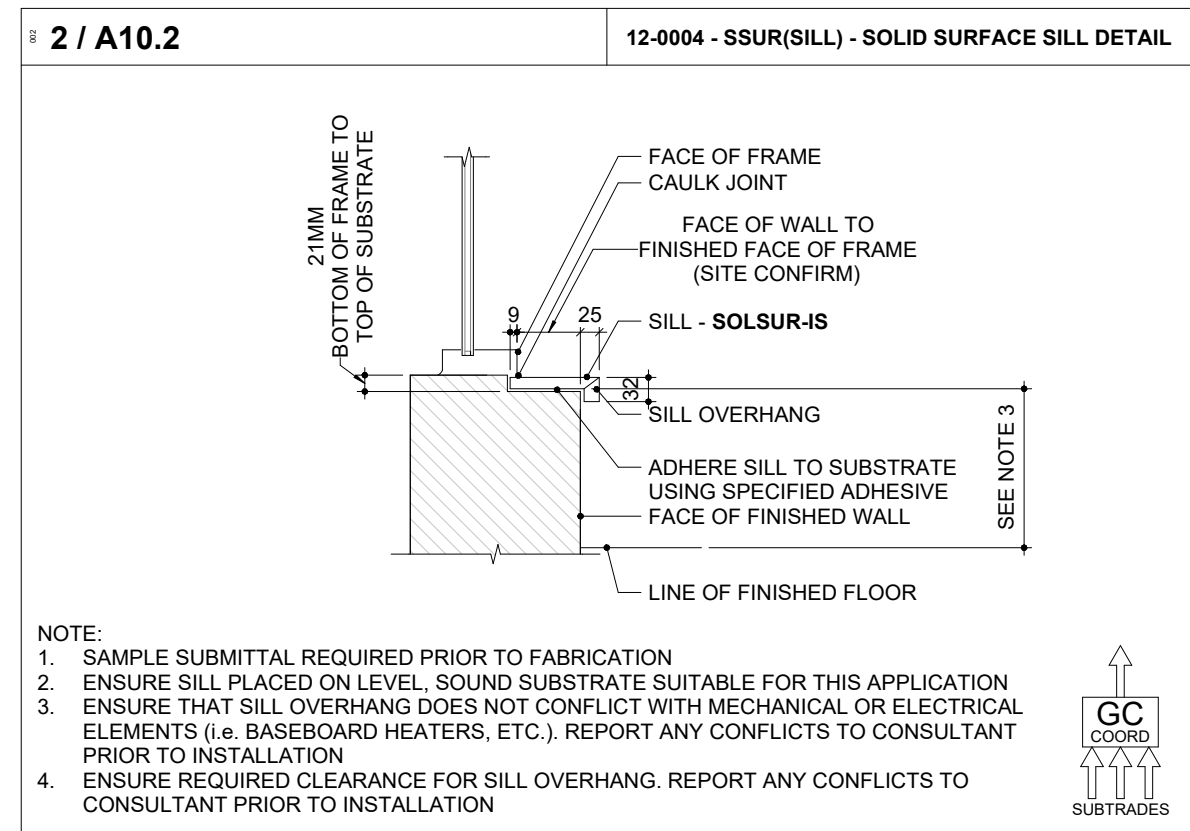
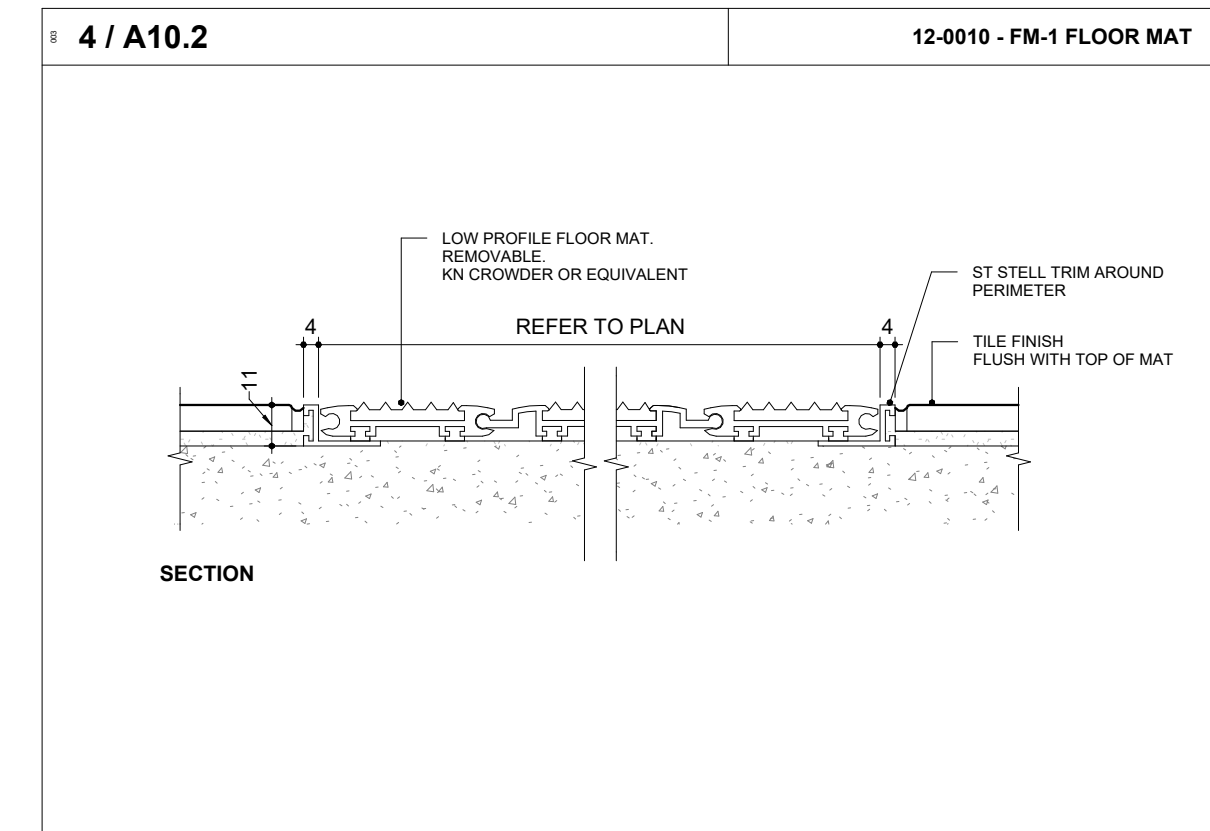
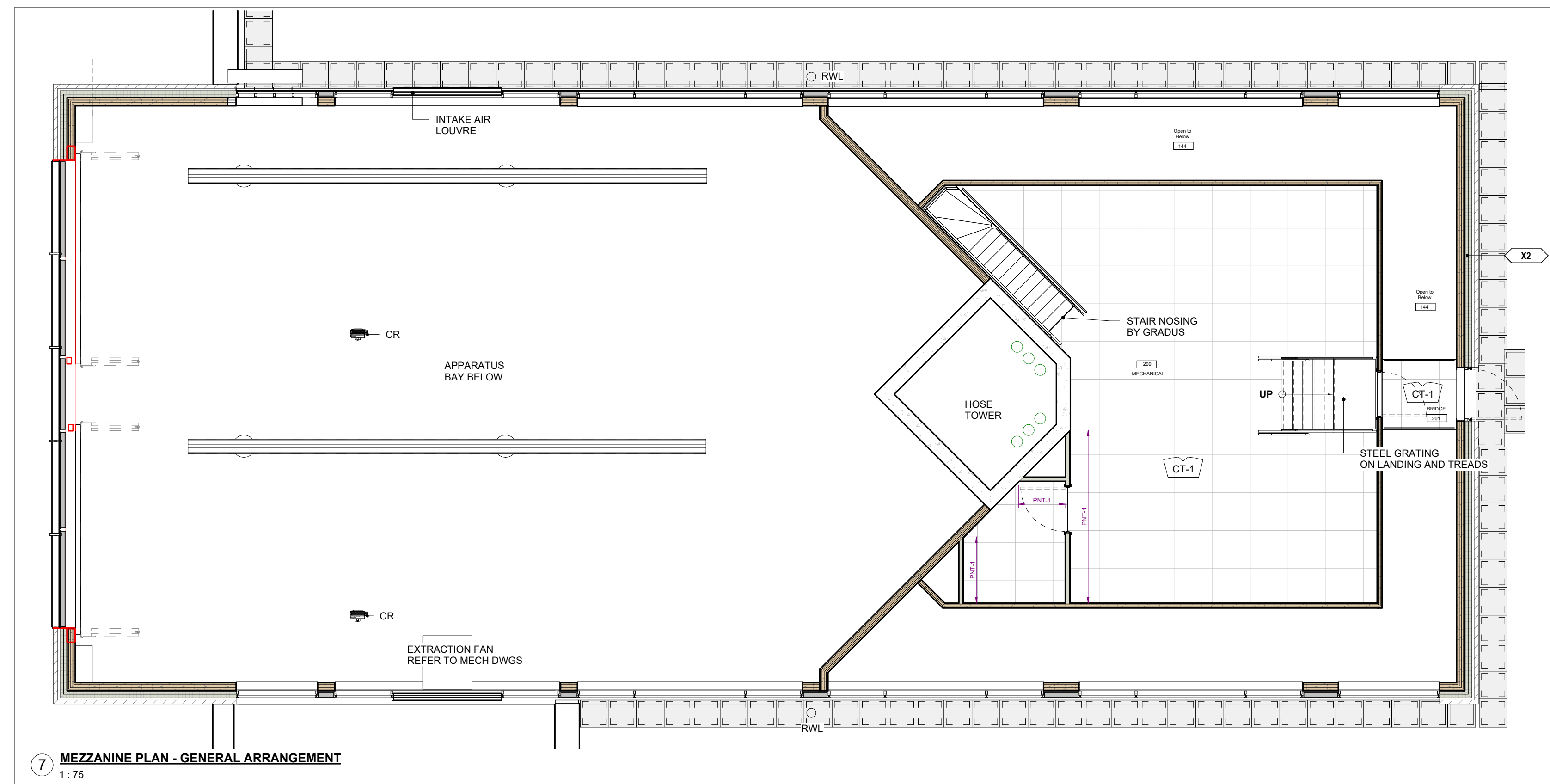
DATE 2021-11-24

SCALE As indicated DRAWN BY SRL

DWG STATUS: TENDER

PROJECT No. 2104

DRAWING No. **A10.2** REVISION 30



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NO.	ISSUED FOR	DATE
17	SPA - REVISION	2023-09-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-251 - IFC	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

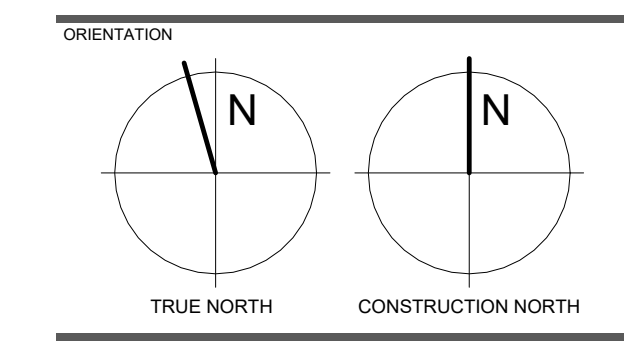
9511 WESTON ROAD, VAUGHAN



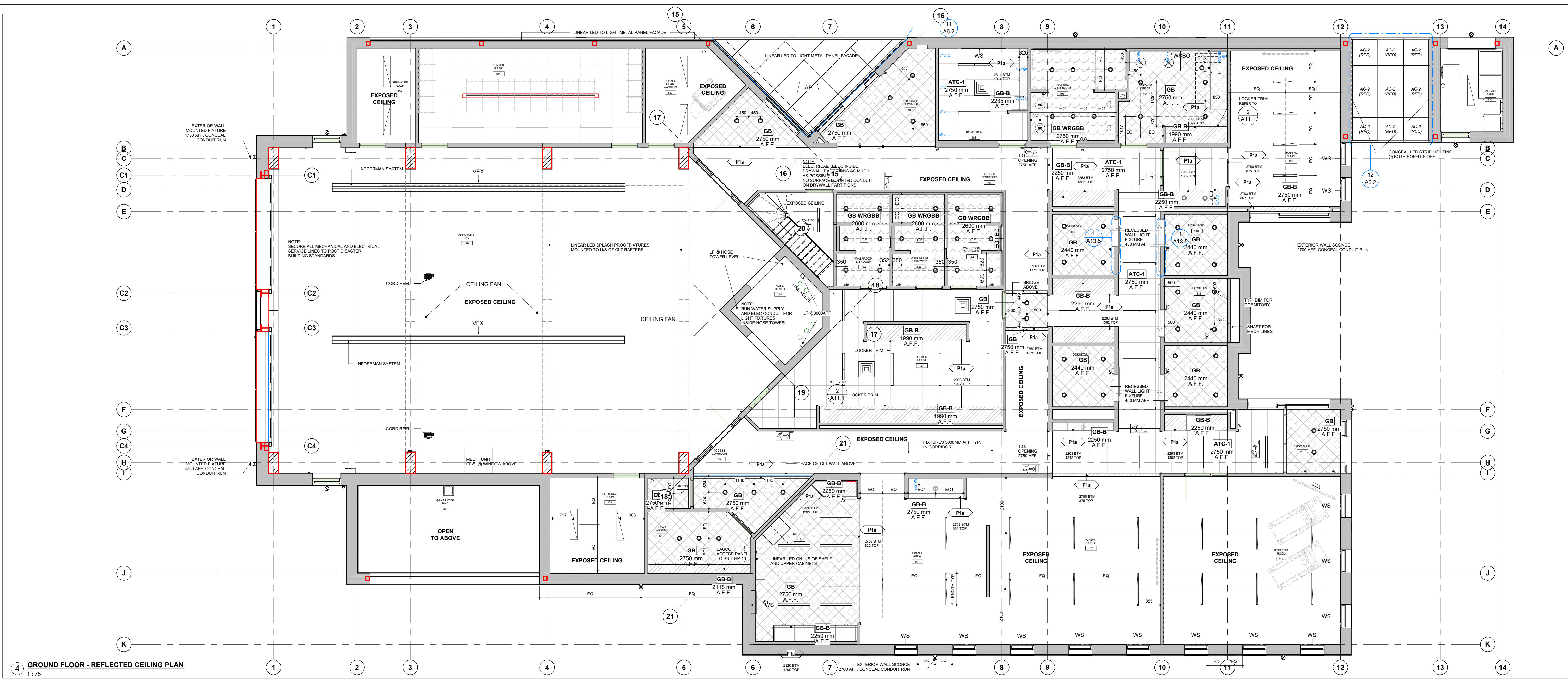
CLIENT: VAUGHAN
ARCHITECT: THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

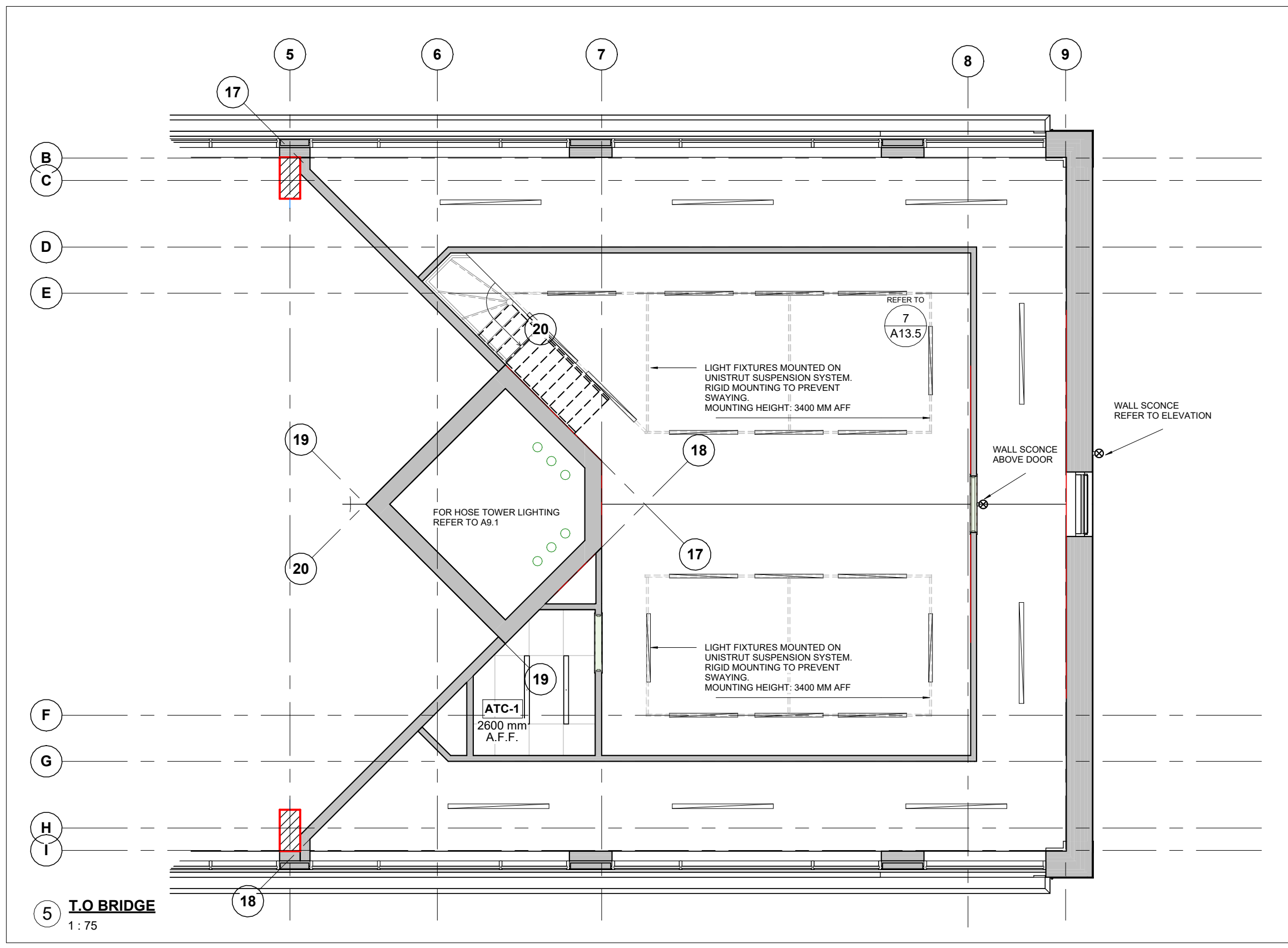
REFLECTED CEILING PLAN



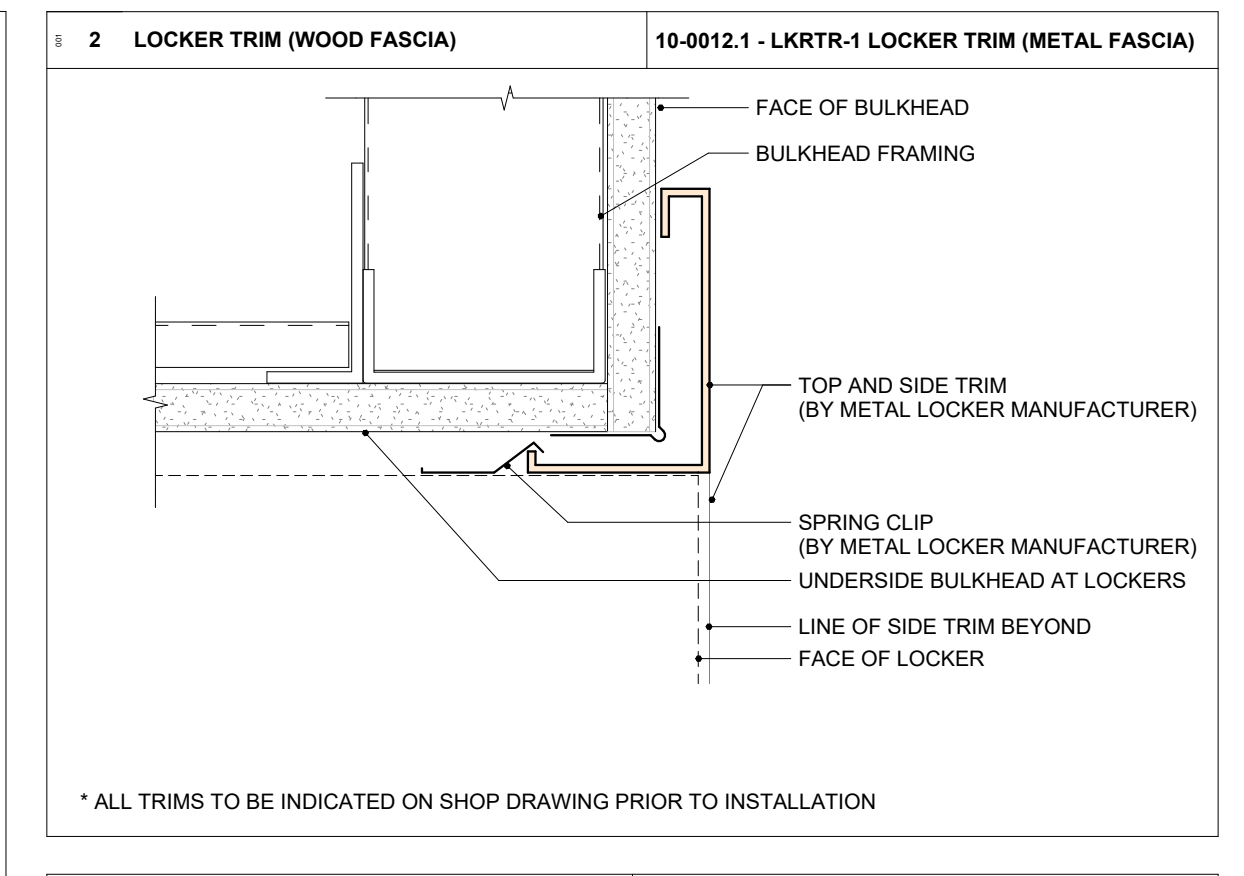
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REVISION: 30



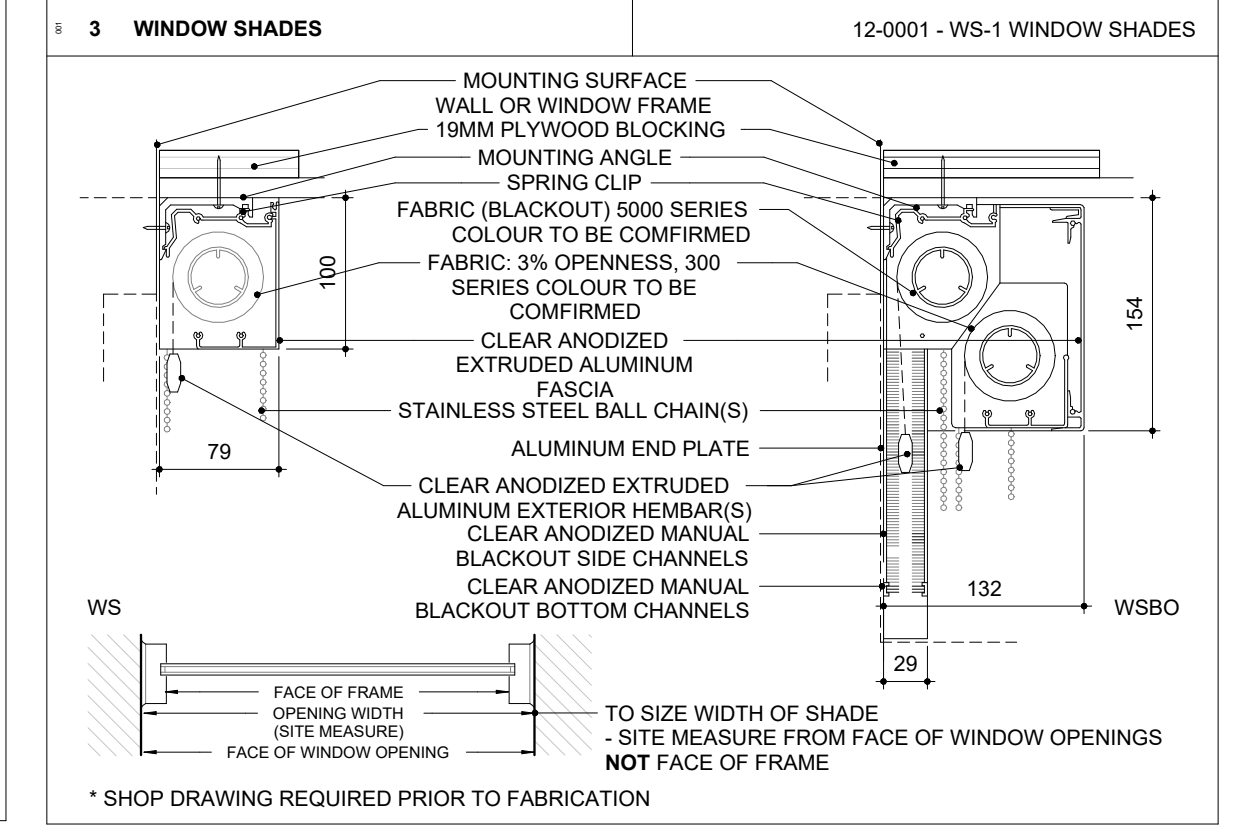
4 GROUND FLOOR - REFLECTED CEILING PLAN
1:75



5 T.O. BRIDGE
1:75



2 LOCKER TRIM (WOOD FASCIA) 10-0012.1 - LKTR-1 LOCKER TRIM (METAL FASCIA)



3 WINDOW SHADES 12-0001 - WS-1 WINDOW SHADES

1 GENERAL NOTES - REFLECTED CEILING A700 GENERAL NOTES - REFLECTED CEILING PLAN

- REFLECTED CEILING PLANS MAY NOT SHOW ALL MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT. ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- PRIOR TO COMMENCING WORK**, CONDUCT INTERFERENCE STUDY. THE OBJECTIVE OF THE STUDY IS TO IDENTIFY AND MITIGATE ISSUES WITH THE INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS, FIXTURES AND EQUIPMENT. AS PART OF THE STUDY, INCLUDE THE FOLLOWING:
 - MARK LOCATIONS AND ROUTES ON SITE OF ALL EQUIPMENT, PIPING, VENTS, DUCTS, CONDENSATES ETC. CONTRACTOR TO ESTABLISH MINIMUM CLEARANCES AND REPORT ANY INTERFERENCES WITH LIGHT FIXTURES, CONDUIT OR WIRE RUNS, STRUCTURE ETC.
 - MARK LOCATIONS ON SITE OF ALL LIGHTING. CONTRACTOR TO ESTABLISH MINIMUM CLEARANCES AND REPORT ANY INTERFERENCES WITH DUCTS, PIPES, STRUCTURE ETC.
 - LOCATE ALL FIXTURES IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.
 - IDENTIFY ALL SERVICES INSTALLED WITHIN OR ABOVE CEILING SYSTEMS. COORDINATE ALL PENETRATIONS AND ACCESS PANELS WITH THE CEILING SUPPORT SYSTEMS.
 - REPORT ANY DISCREPANCIES OR INTERFERENCES TO CONSULTANT IMMEDIATELY. OBTAIN INSTRUCTION FROM CONSULTANT BEFORE COMMENCING INSTALLATION.
 - PROVIDE CONFIRMATION THAT INTERFERENCE STUDY HAS BEEN CONDUCTED AND THAT INTERFERENCES HAVE BEEN IDENTIFIED AND MITIGATED.
 - REFER TO ROOM FINISH SCHEDULE FOR CEILING FINISHES.
 - WHERE INDICATED, DIMENSIONS ARE TAKEN FROM CENTER OF LIGHT FIXTURES.
 - WHERE INDICATED, CEILING NOTED AS EXPOSED SHALL BE PAINTED.
 - FIRE SEPARATIONS ARE TO THE UNDERSIDE (U/S) OF THE DECK OR STRUCTURE COMPLETE WITH FIRESTOP SYSTEM MATERIAL AND SMOKE SEAL AS REQUIRED.
 - REFER TO TOP OF WALL DETAILS FOR TERMINATION OF WALLS AT FLOORS AND ROOFS.
 - WHERE MECHANICAL AND ELECTRICAL FIXTURES PENETRATE A PARTITION, PATCH AND PROVIDE AN AIR-TIGHT SEAL AROUND PENETRATION. AT FIRE SEPARATIONS USE FIRESTOP SYSTEM MATERIAL AT PENETRATIONS TO MATCH THE FIRE RATING OF THE PARTITION, WALL, OR FLOOR ASSEMBLY. LOCATE SPRINKLERS, DETECTORS, SPEAKERS, ETC. ON CENTER LINE OR MID-POINT OF LAY-IN CEILING PANELS UNLESS OTHERWISE NOTED.
 - FOR EQUIPMENT THAT REQUIRES ACCESS THROUGH CEILINGS, LOCATE ABOVE ATC CEILINGS WHERE POSSIBLE. WHERE ACCESS IS REQUIRED THROUGH GYPSUM BOARD CEILINGS, CONTRACTOR TO PROVIDE ACCESS PANELS AS REQUIRED. CONSULTANT TO REVIEW LOCATIONS PRIOR TO PROCEEDING WITH INSTALLATION.
 - ACCESS PANELS SHALL BE PREFABRICATED AND SIZED ACCORDING TO ACCESS REQUIREMENTS, FINISH FLUSH WITH ADJACENT CEILING AND TO MATCH ADJACENT CEILING FINISH.
 - UNLESS OTHERWISE NOTED, LOCATE LIGHT FIXTURES ON CENTER OF ACOUSTIC CEILING TILES.
 - REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR FIRE EXIT SIGNS, EMERGENCY LIGHTING AND OTHER LIFE SAFETY DEVICES (i.e. HEAT DETECTORS, SMOKE DETECTORS ETC).
 - WHERE REQUIRED, PATCH, PAINT OR REPLACE ANY DAMAGED T-BAR AND REPLACE ANY DAMAGED OR SOILED CEILING TILES NOTED PRIOR TO OCCUPANCY.

LEGEND

GB	GYPSUM BOARD
GB-B	GYPSUM BOARD - BULKHEAD
GB-WRGBB	WATER RESISTANT GYPSUM BACKING BOARD
ATC	ACOUSTICAL TILE CEILING SYSTEM
EXP	EXPOSED CEILING

NO.	ISSUE OR REVISION	DATE
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26	T24-253 - RFT	2024-04-15
29	ADDENDUM #4	2024-05-30
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

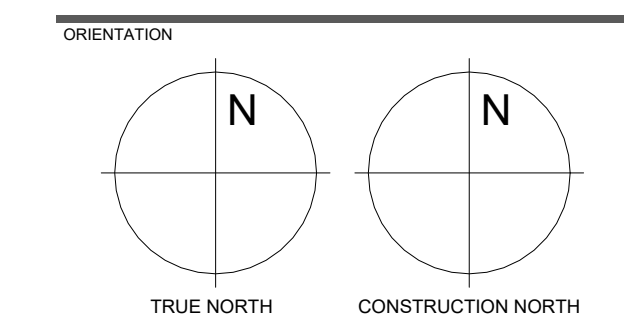
9511 WESTON ROAD, VAUGHAN

CLIENT: **VAUGHAN**

ARCHITECT: **THOMASBROWNARCHITECTS**
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

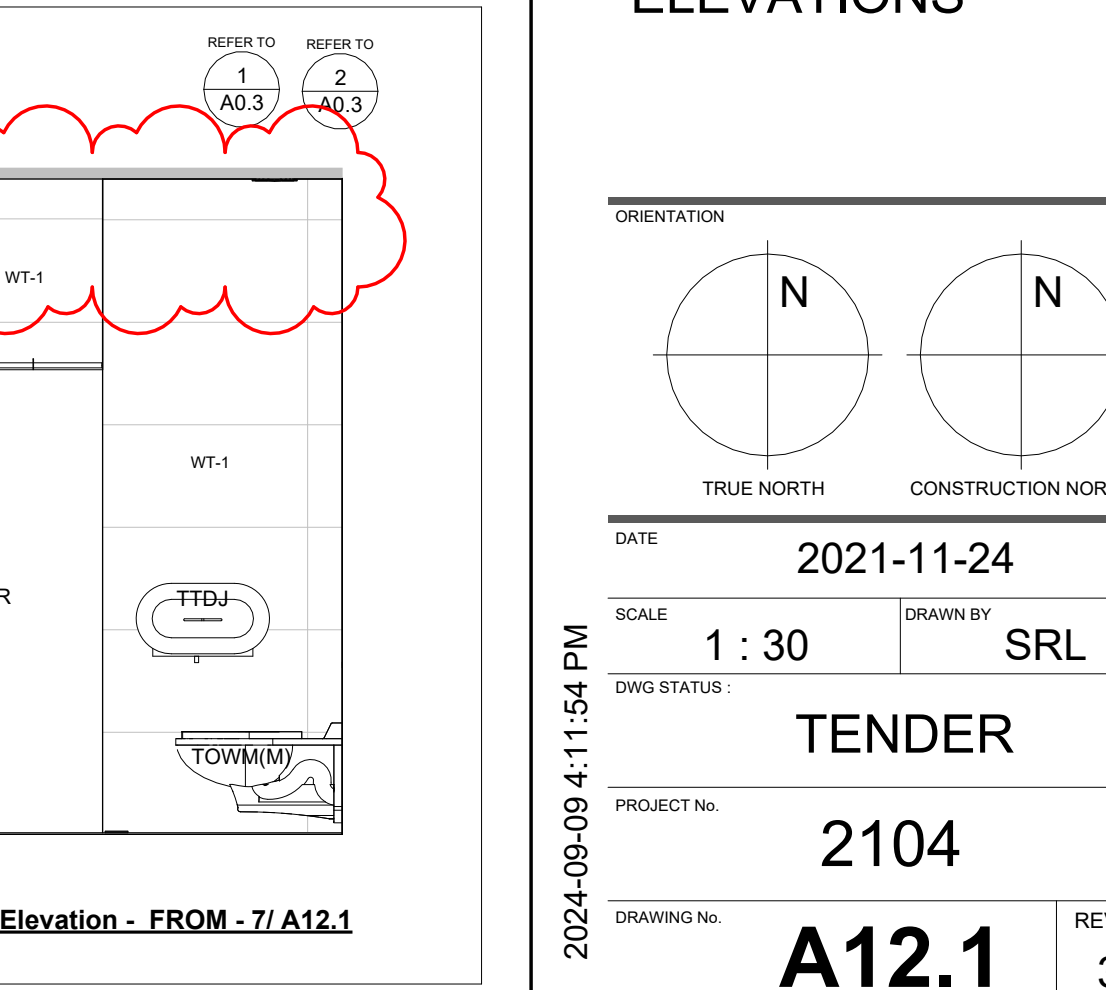
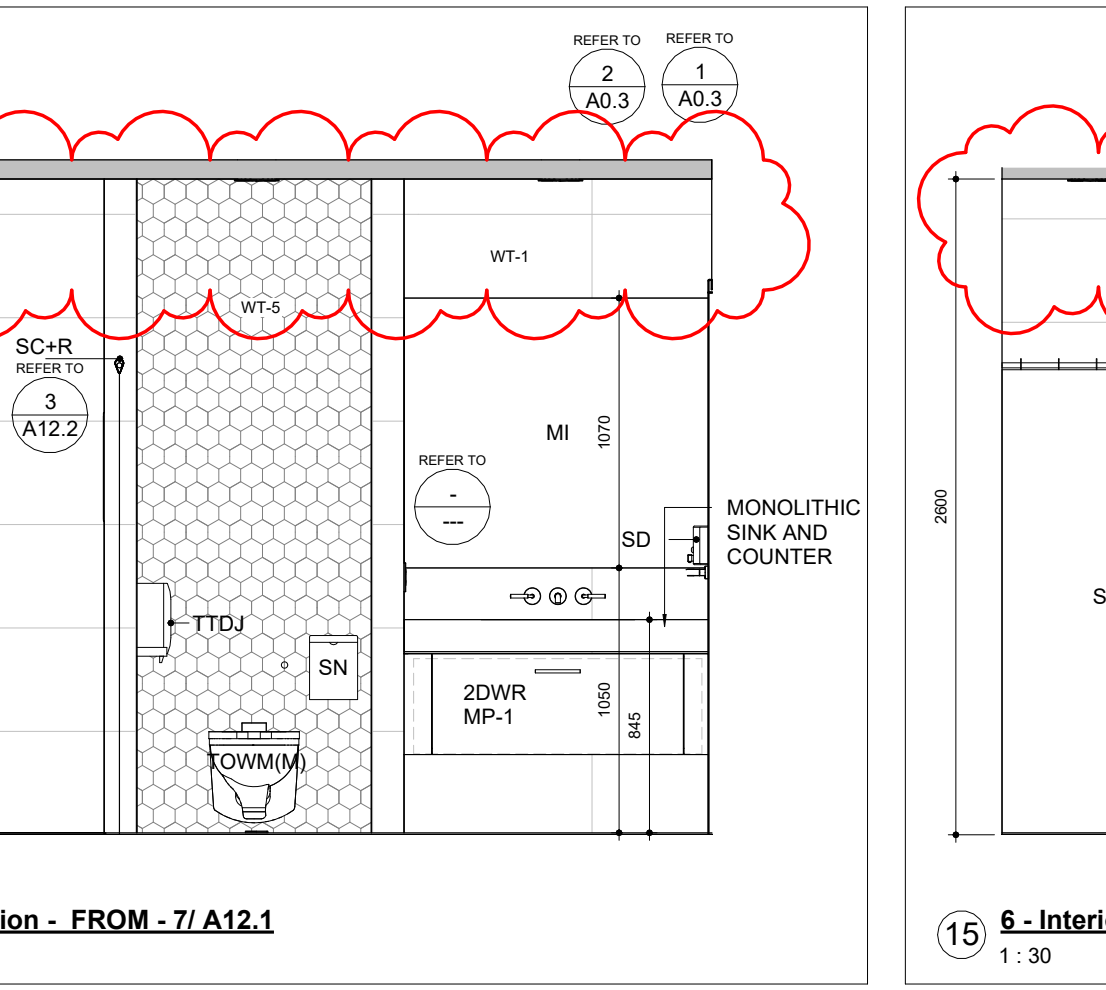
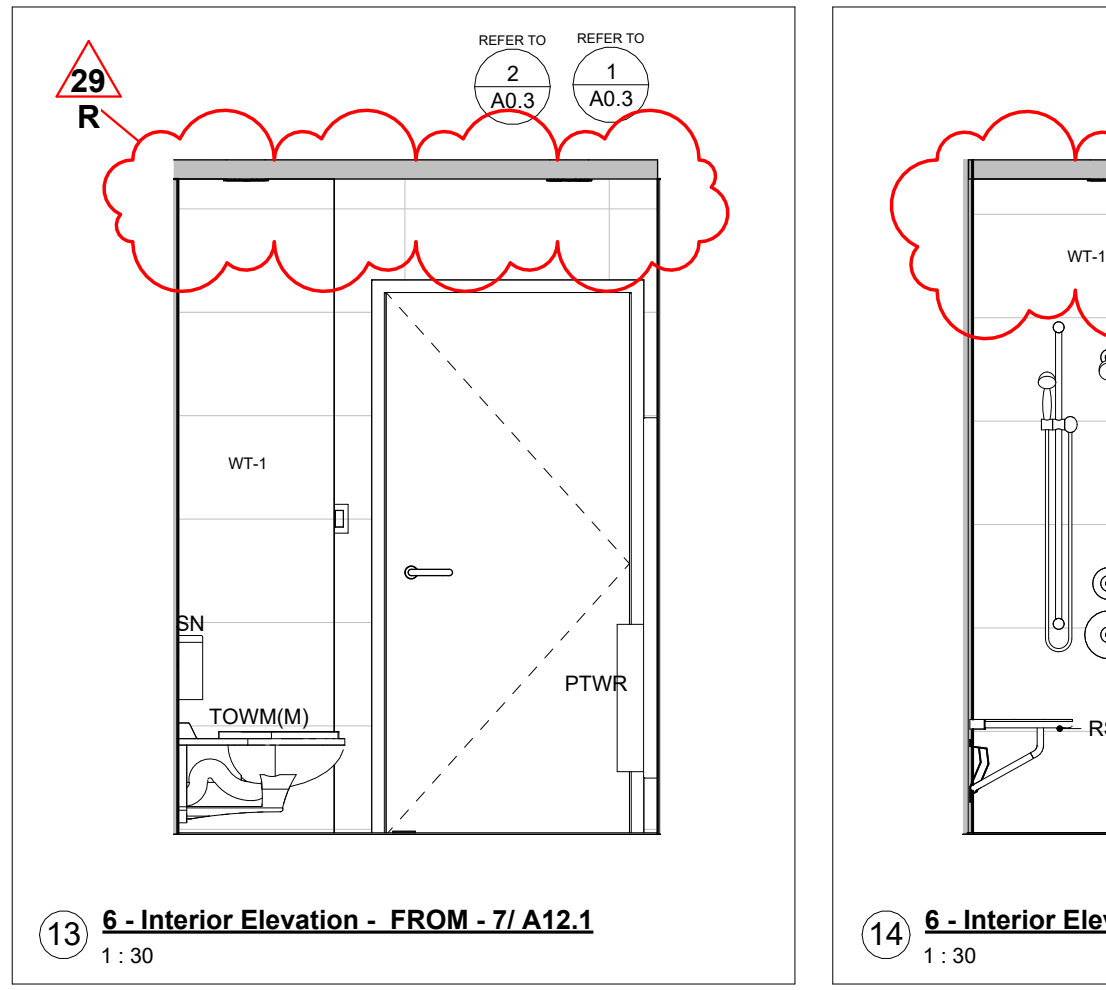
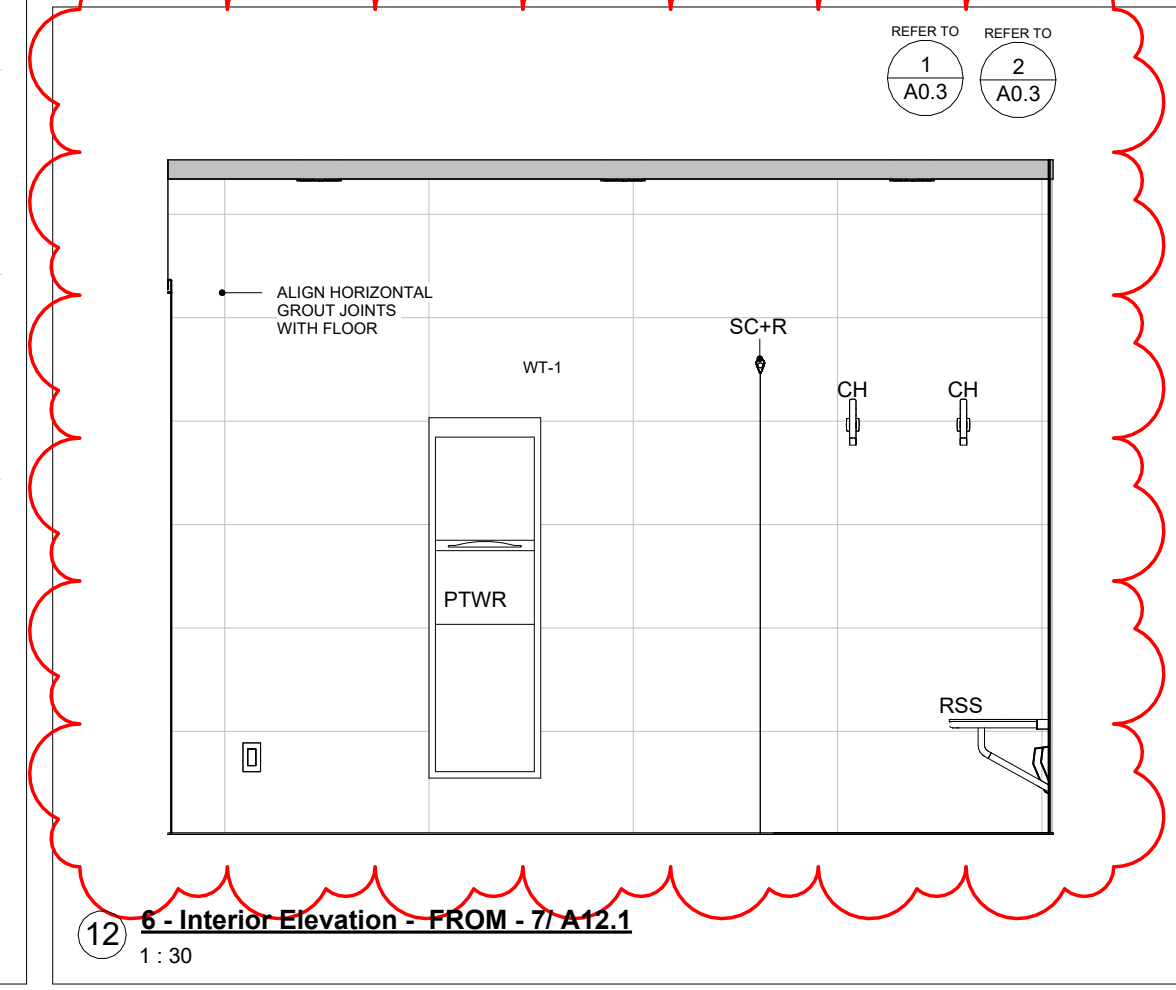
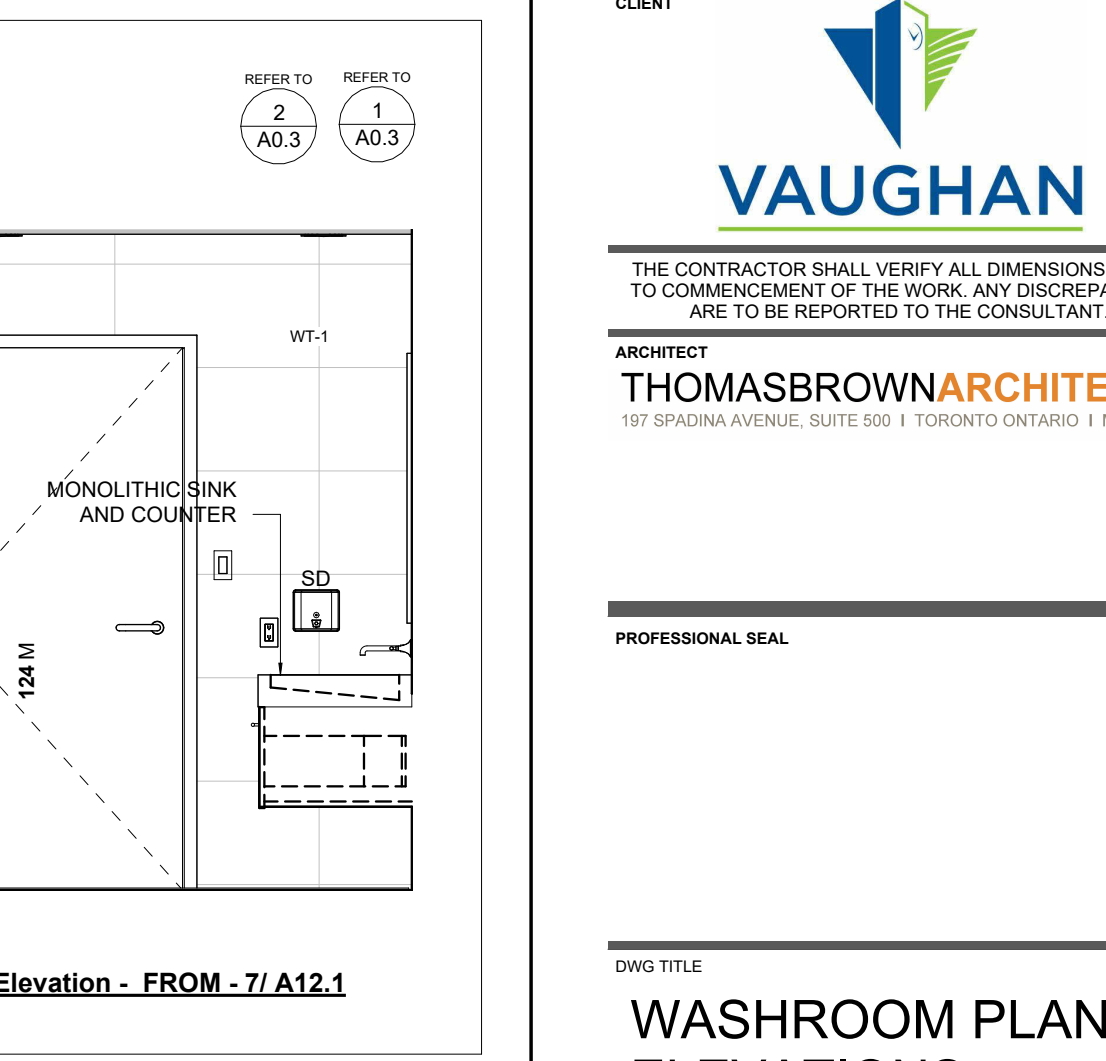
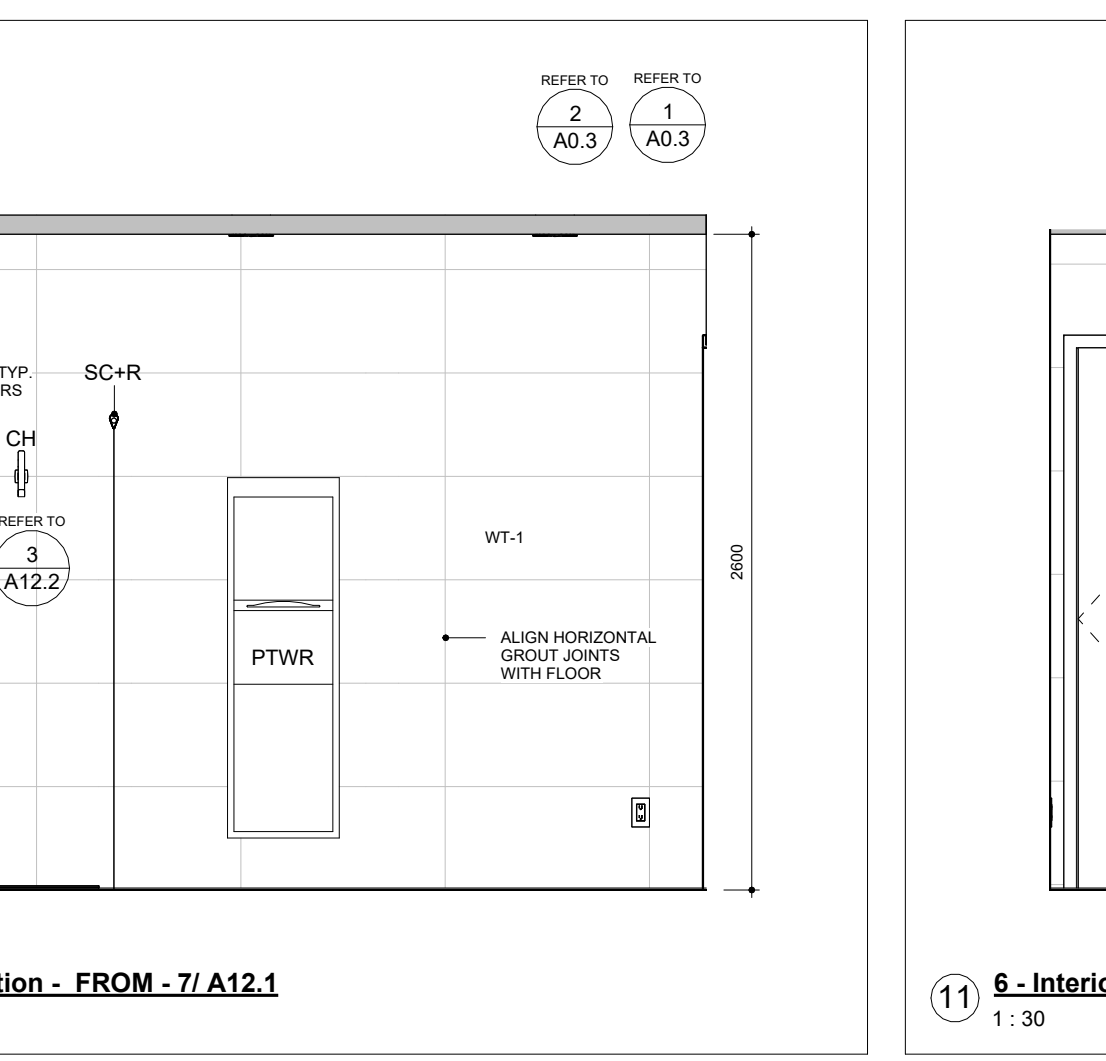
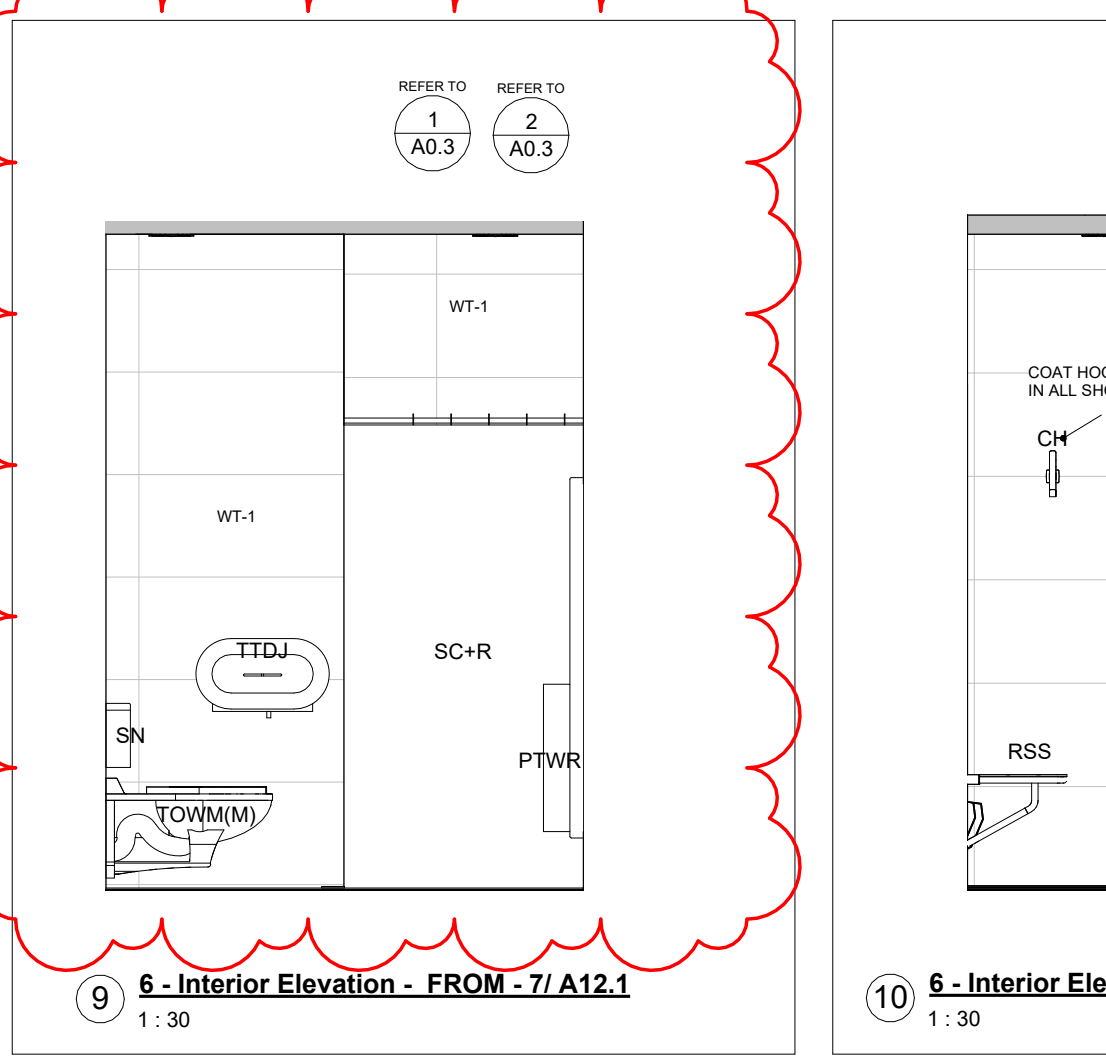
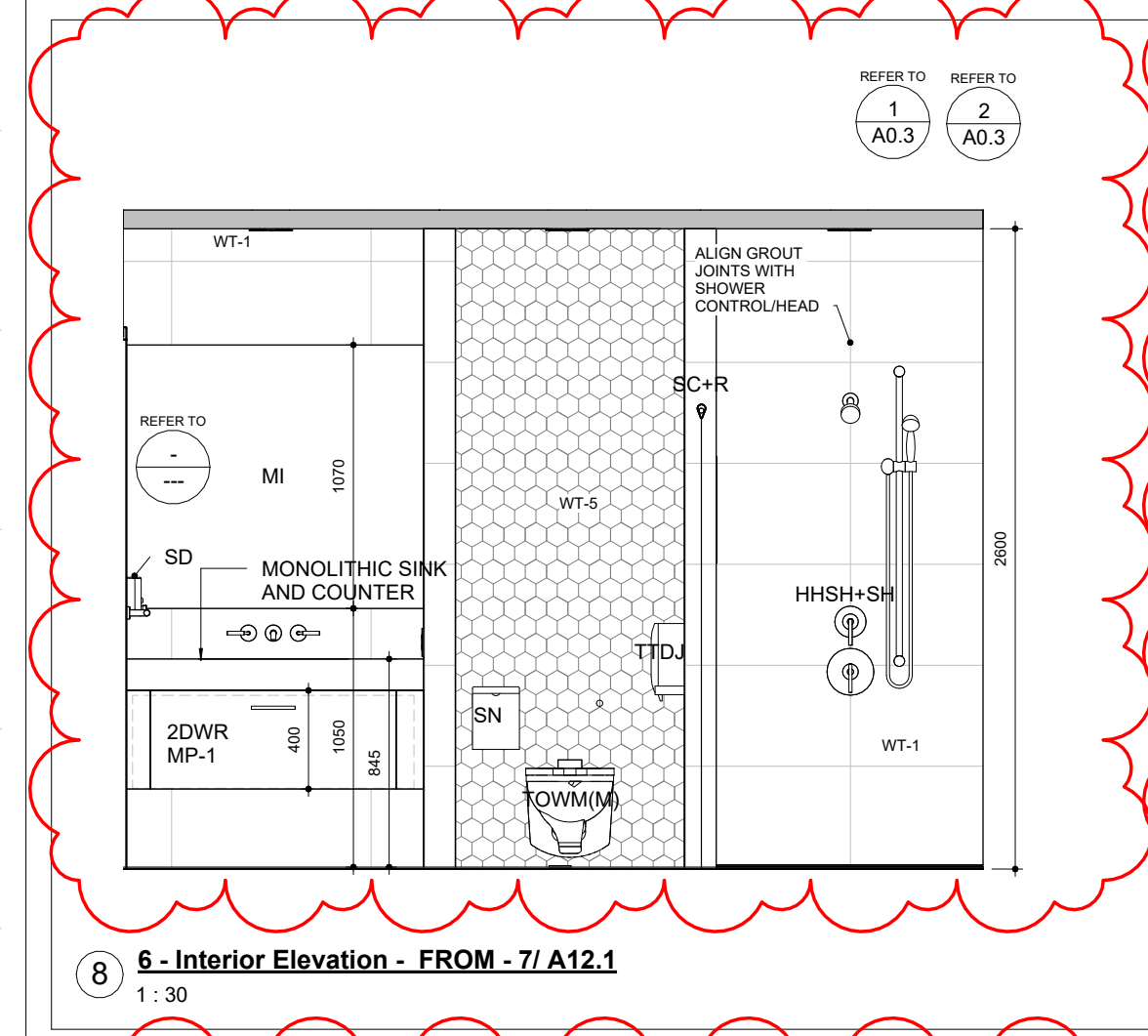
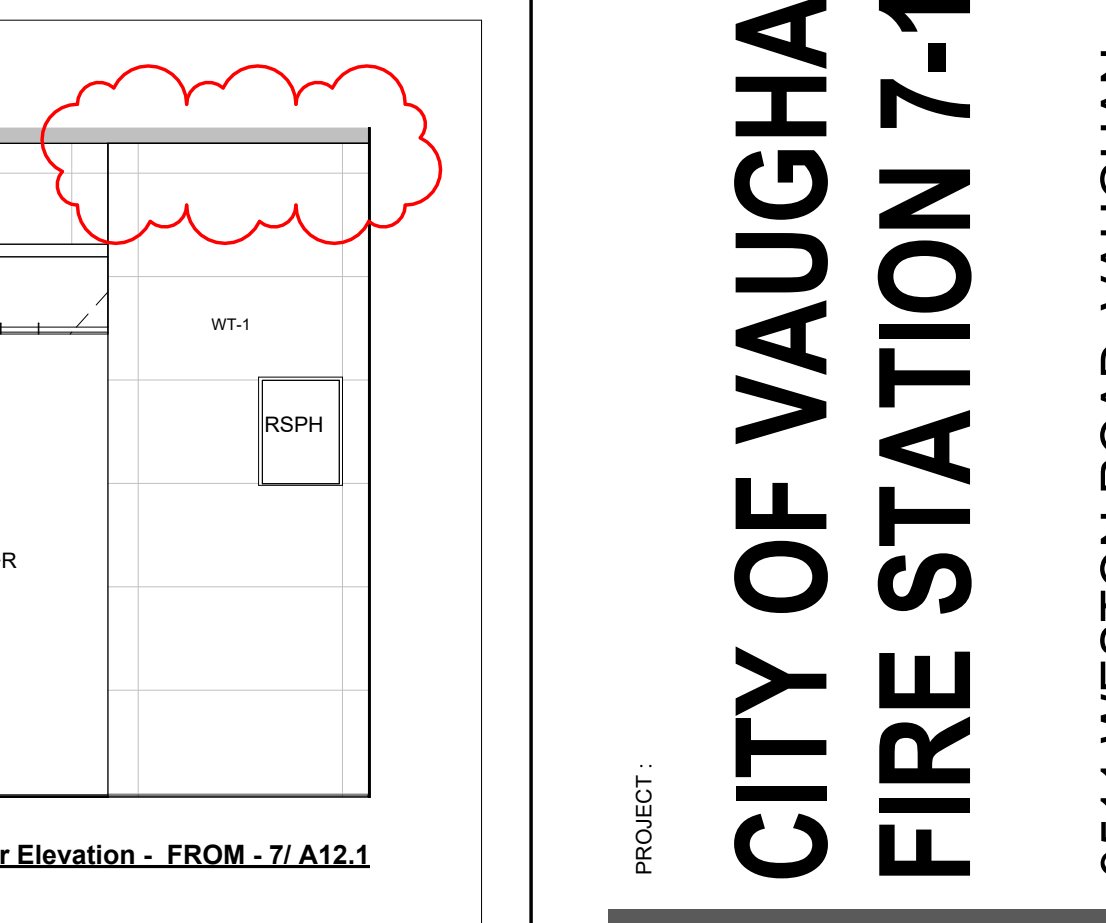
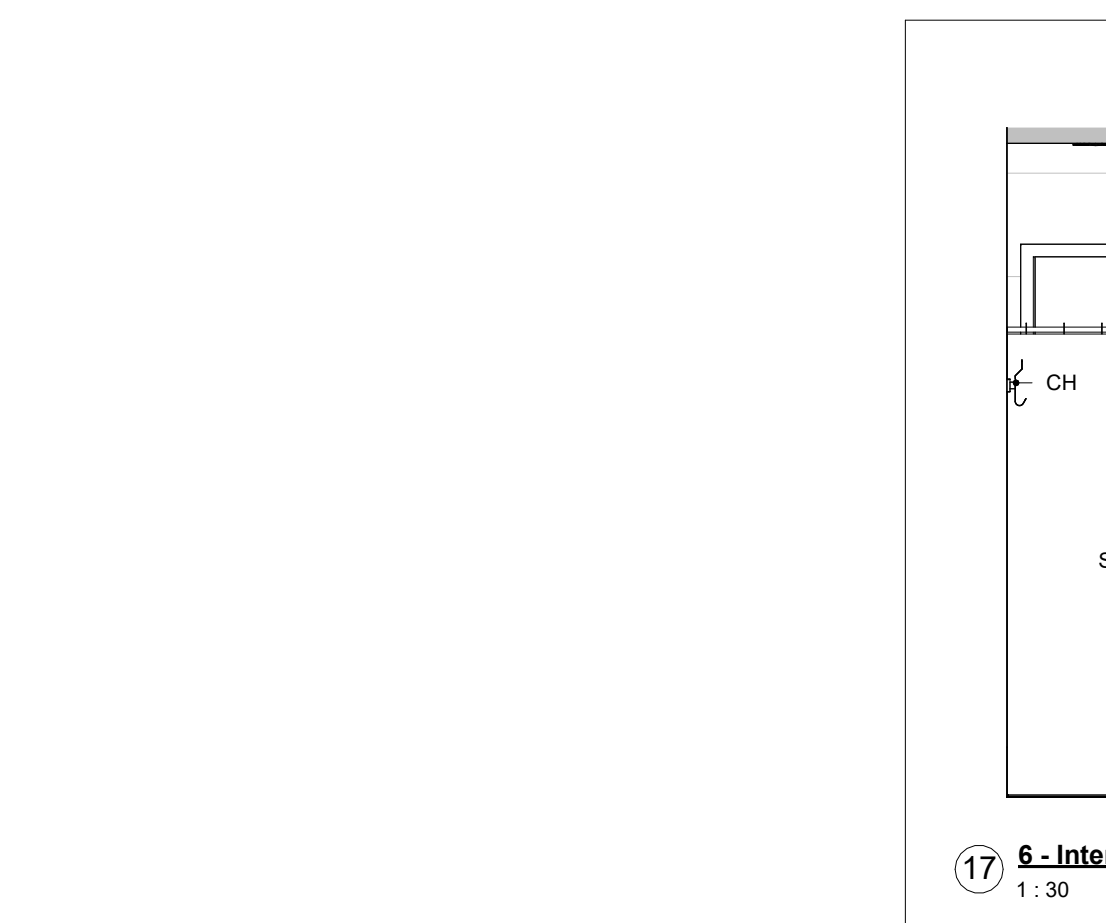
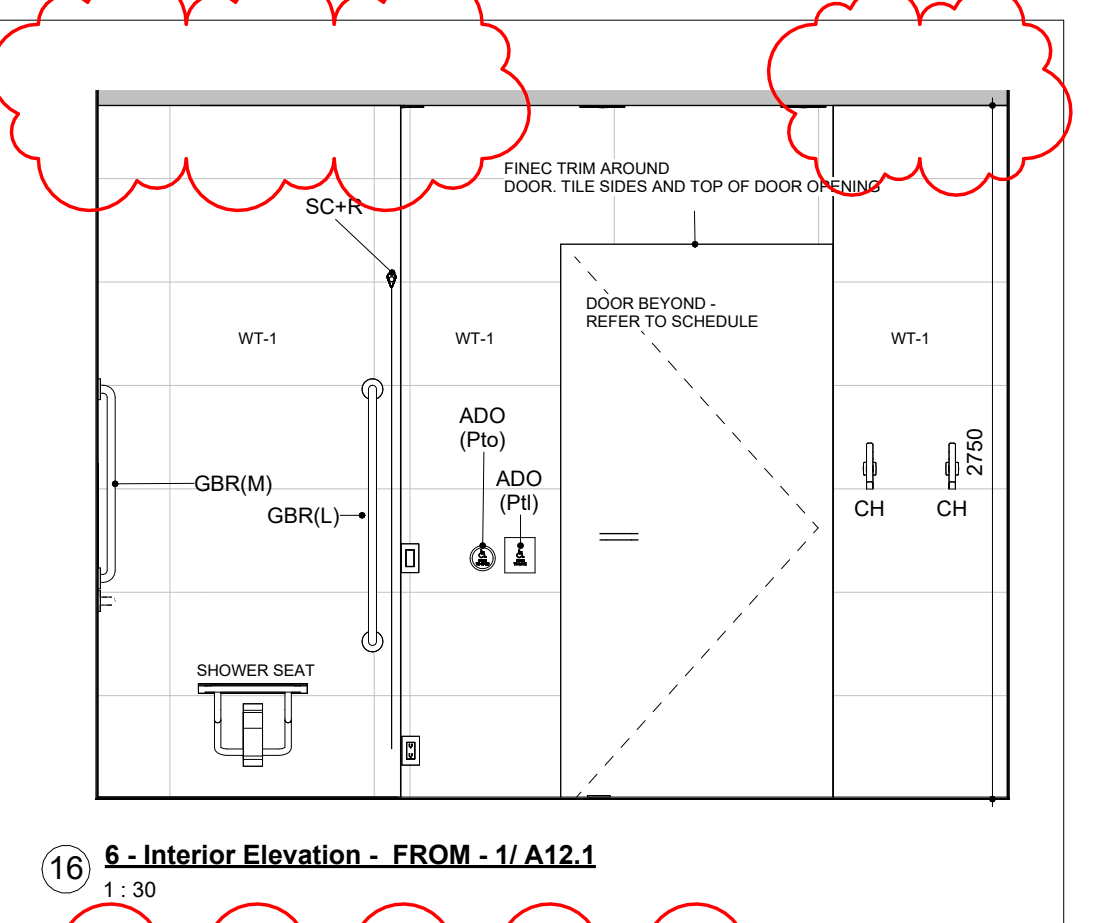
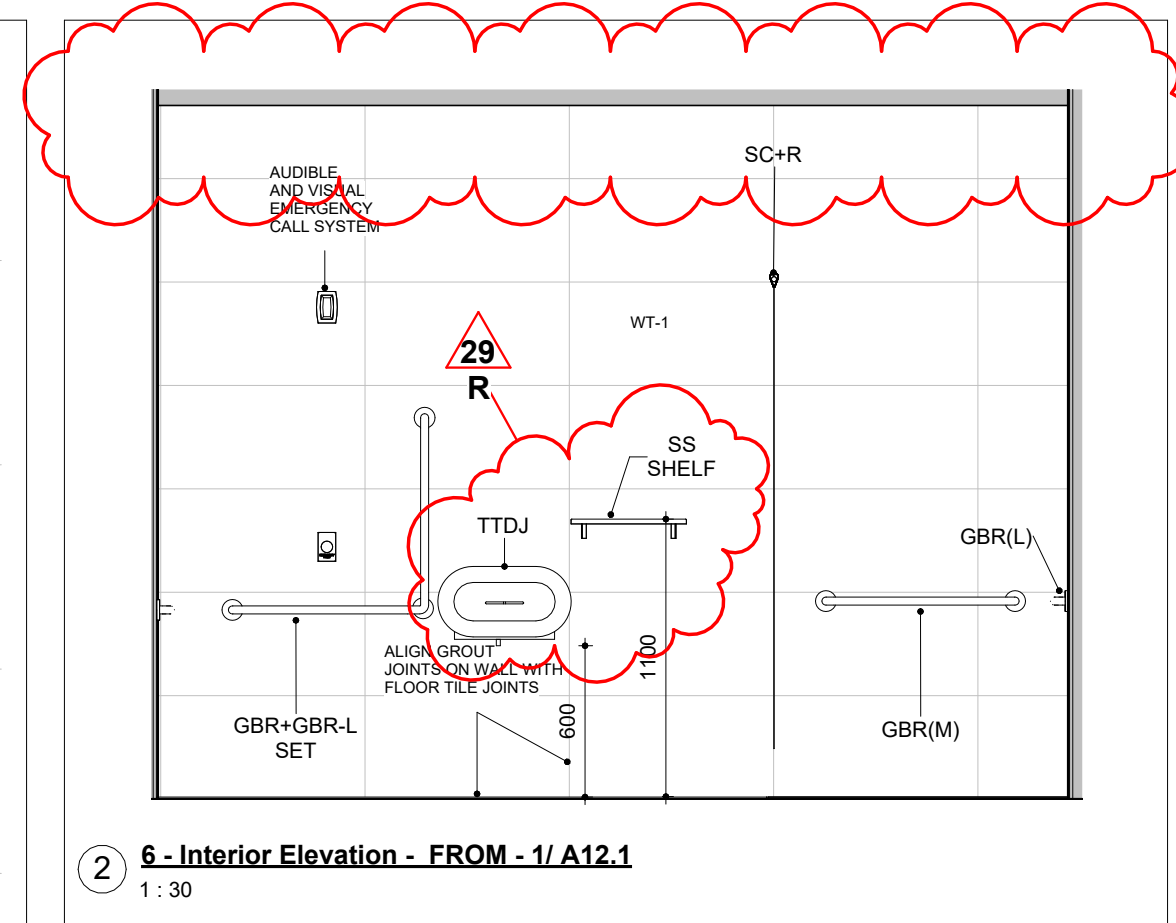
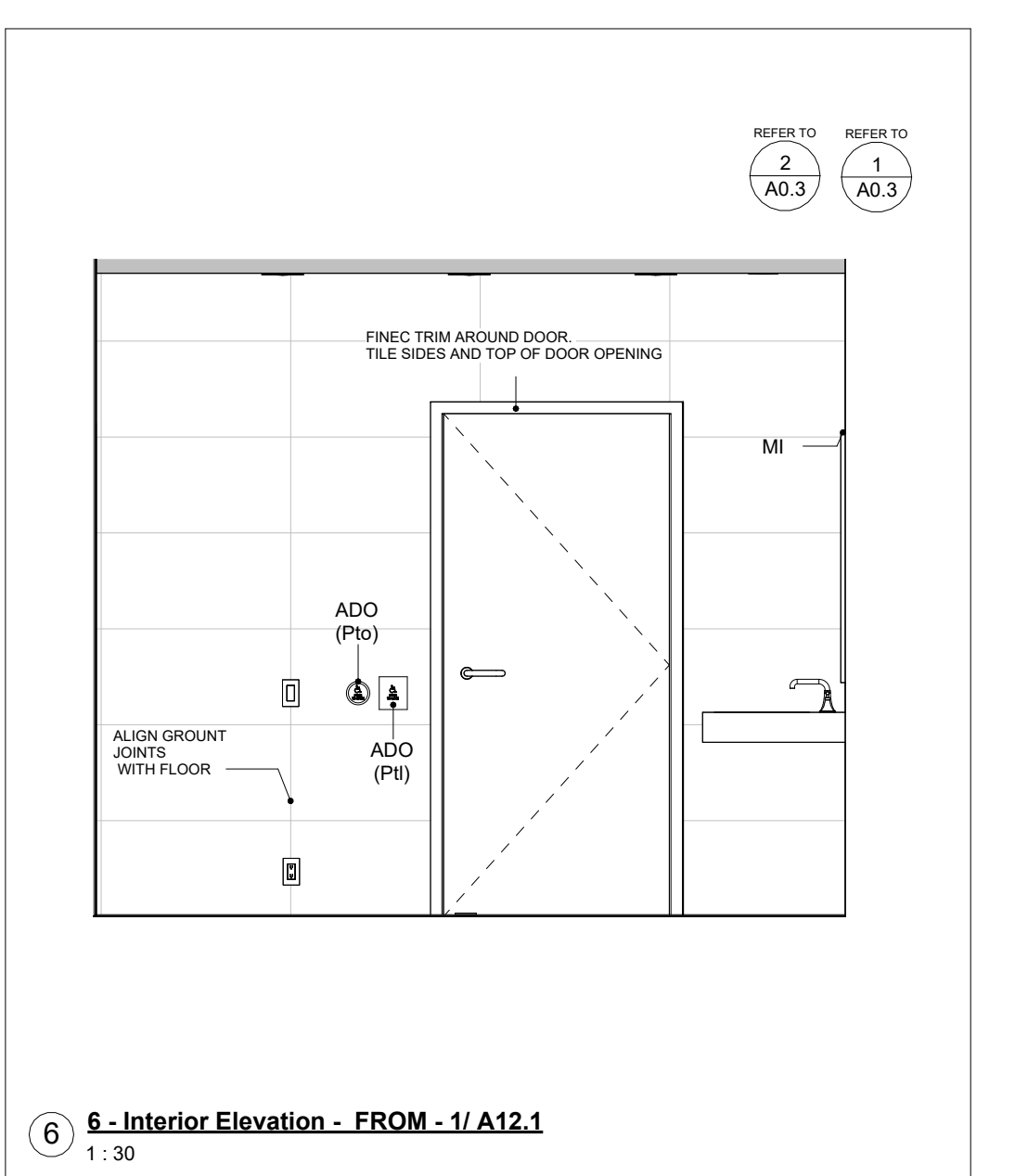
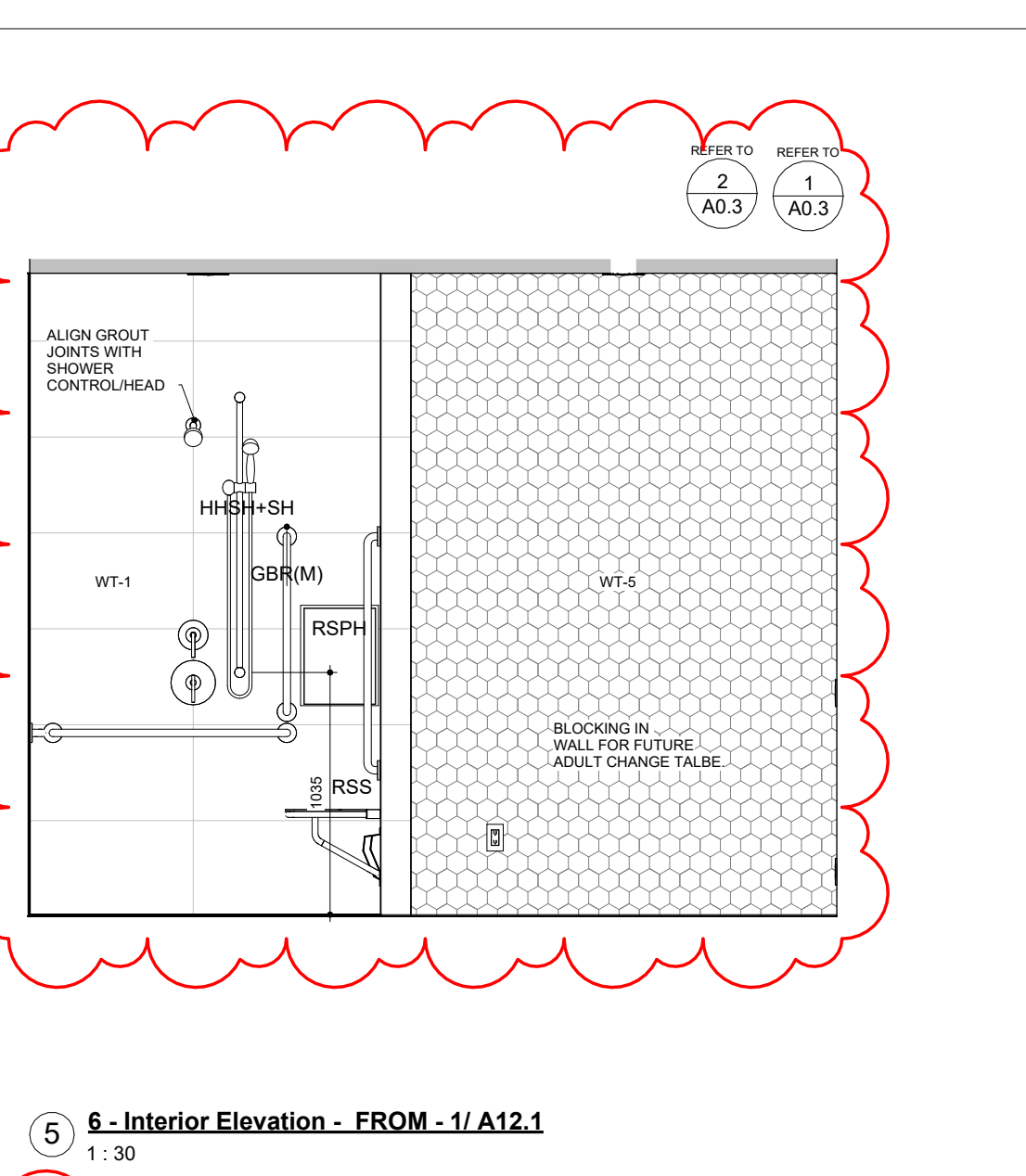
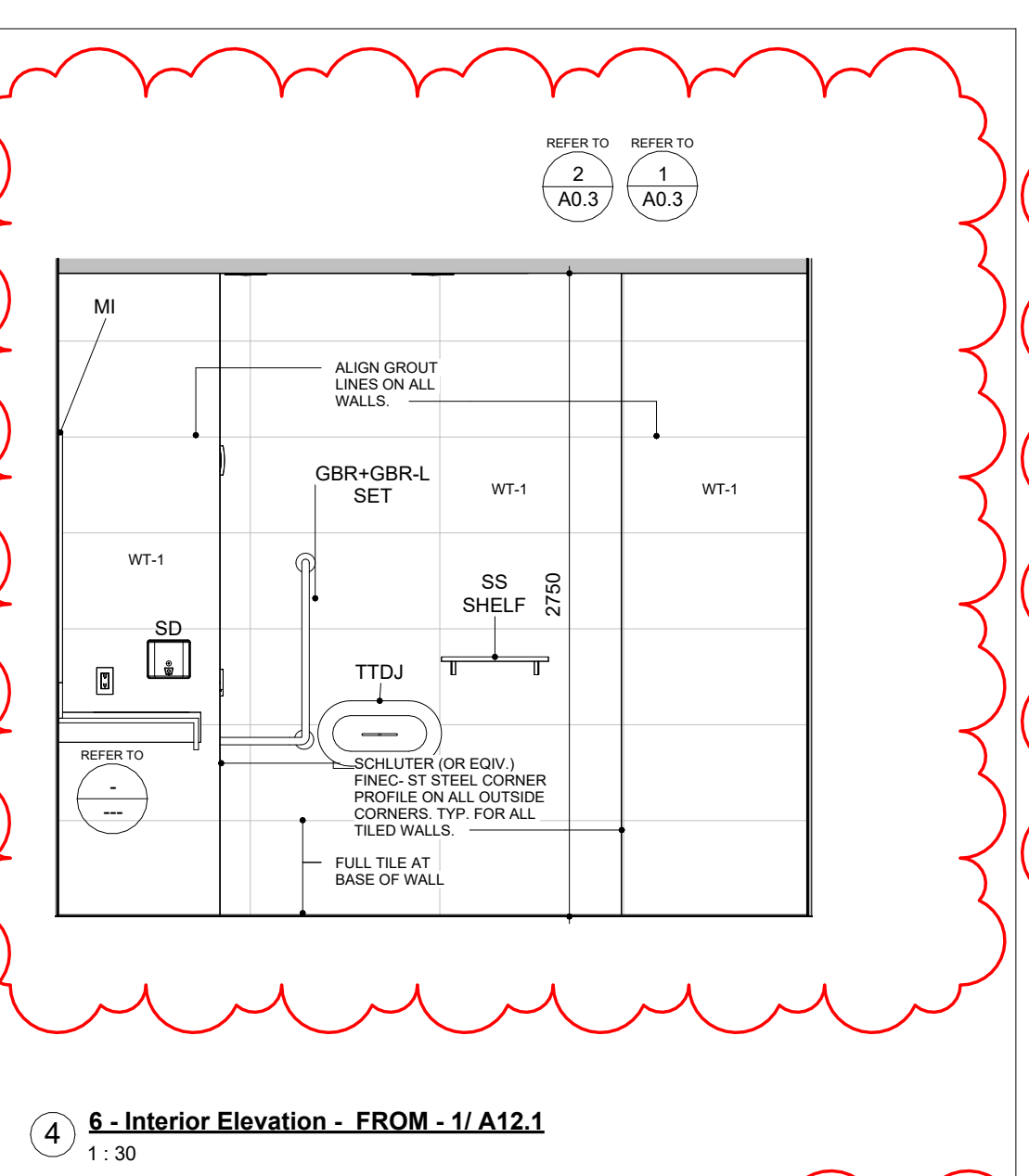
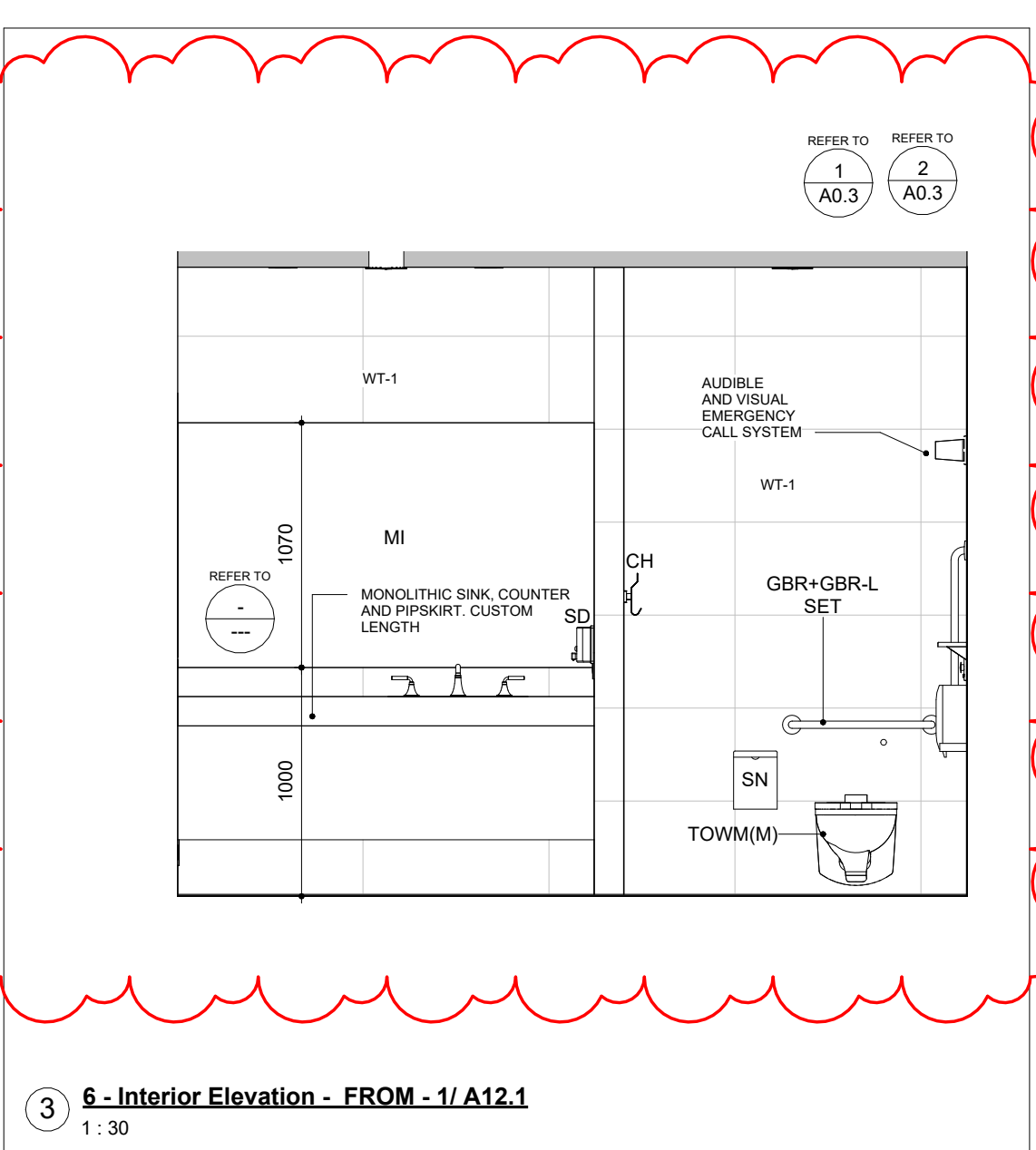
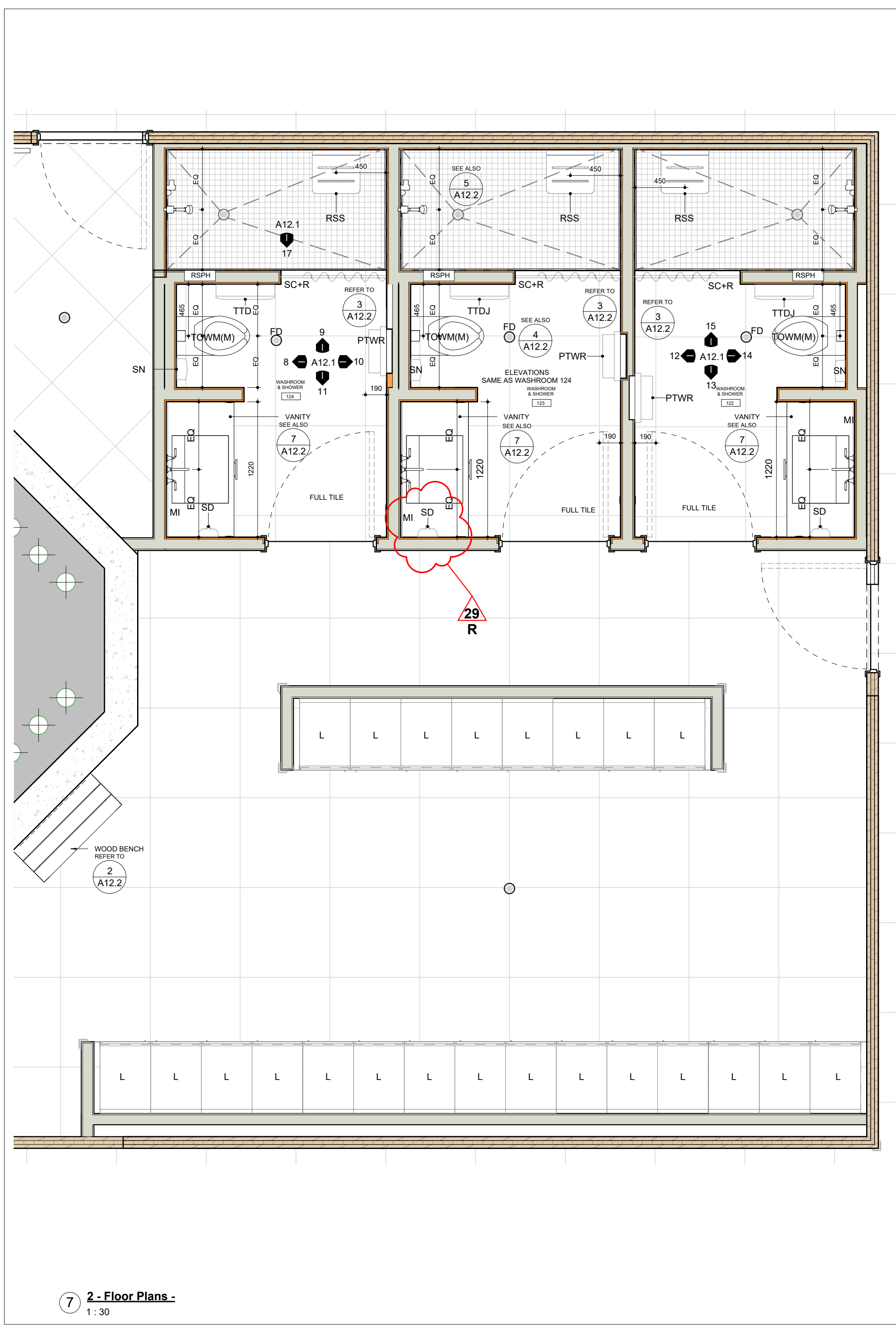
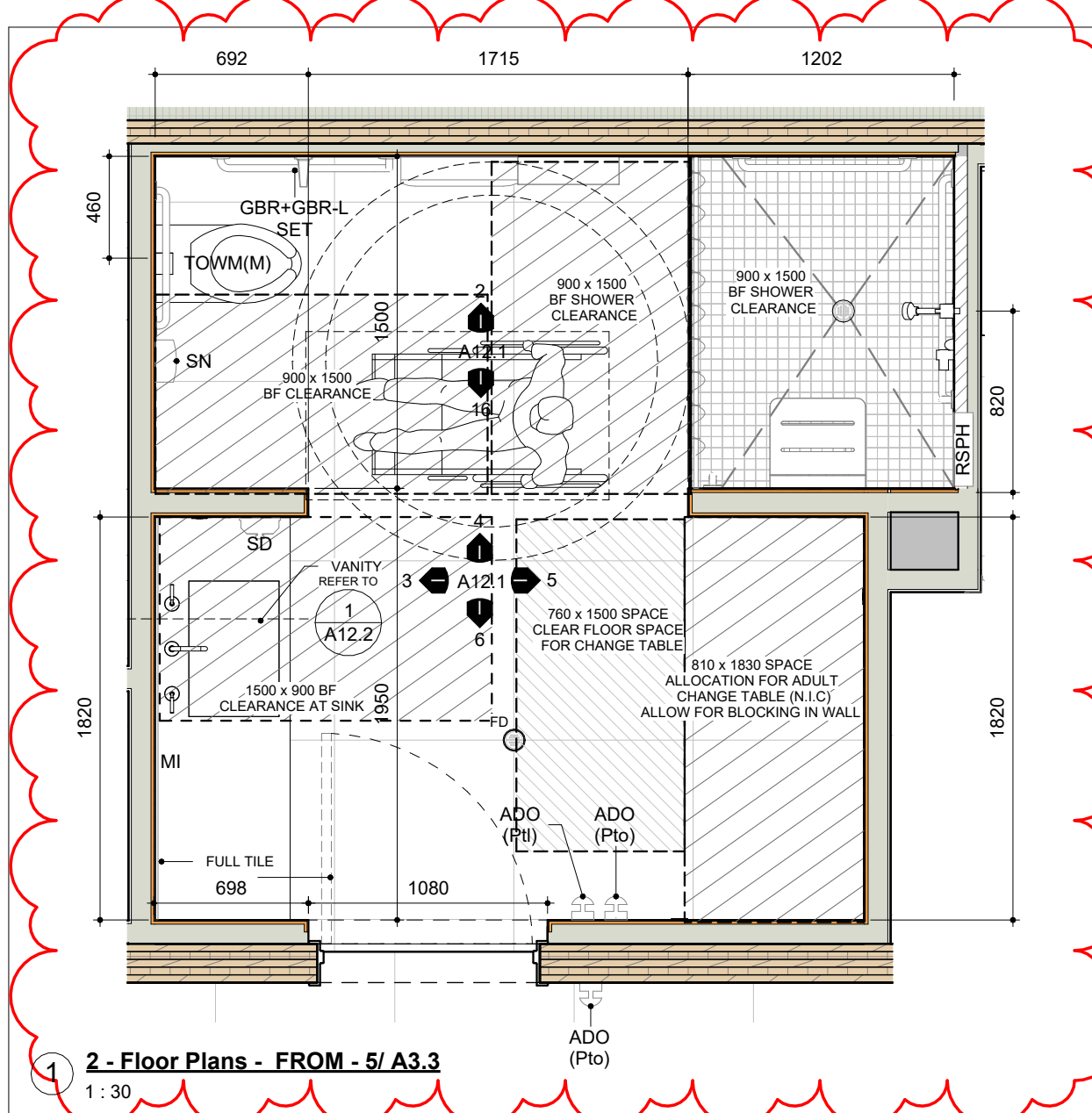
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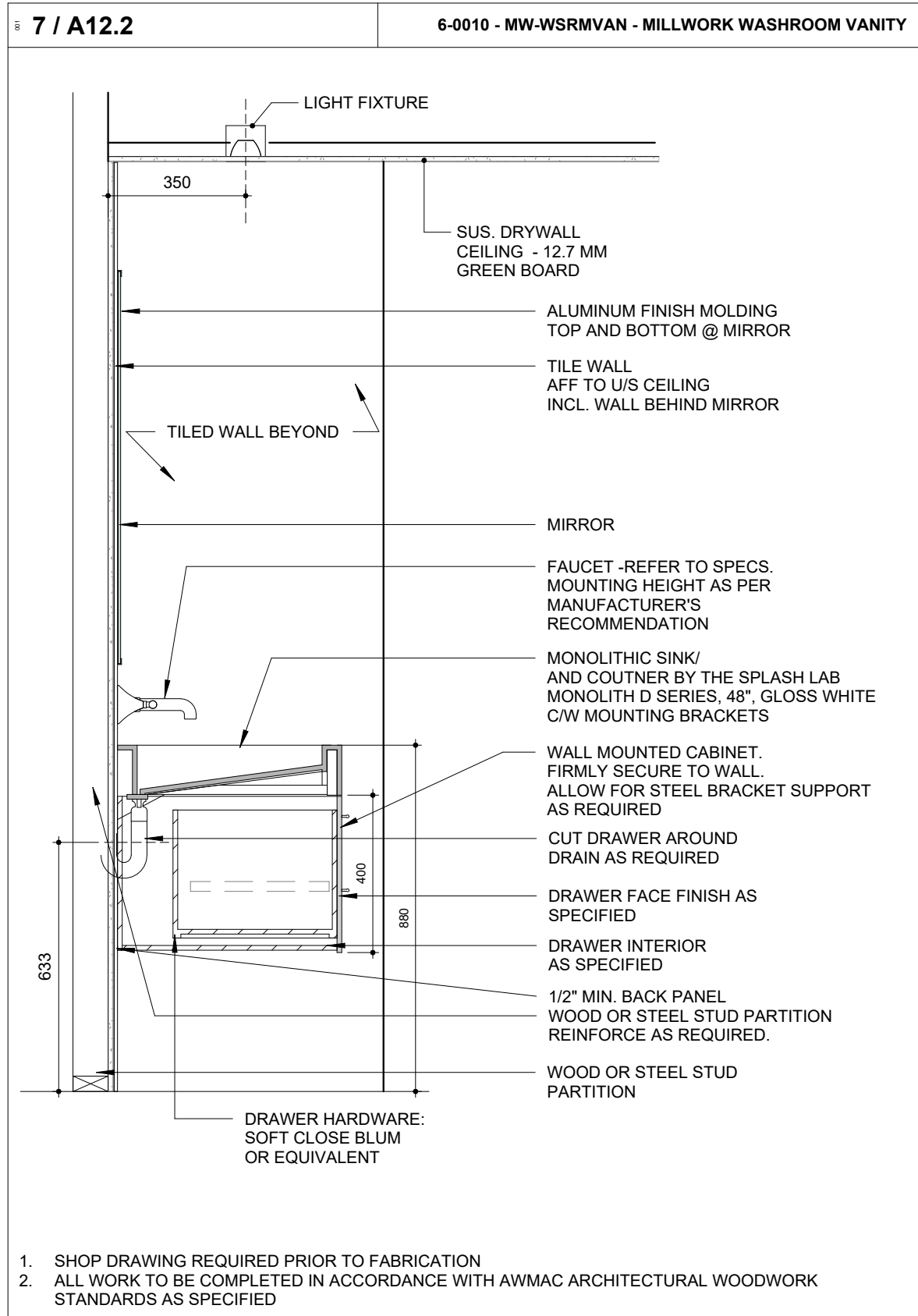
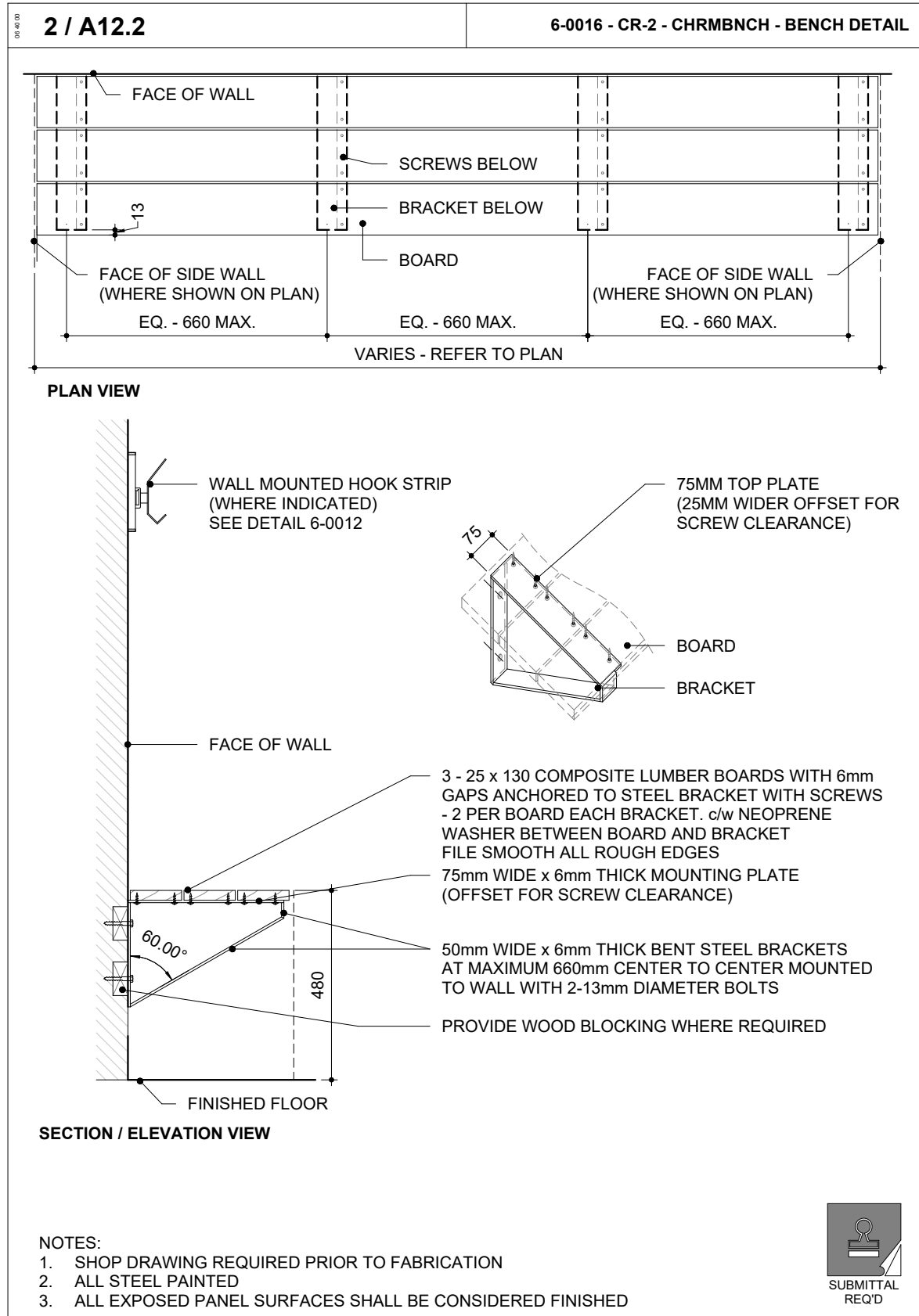
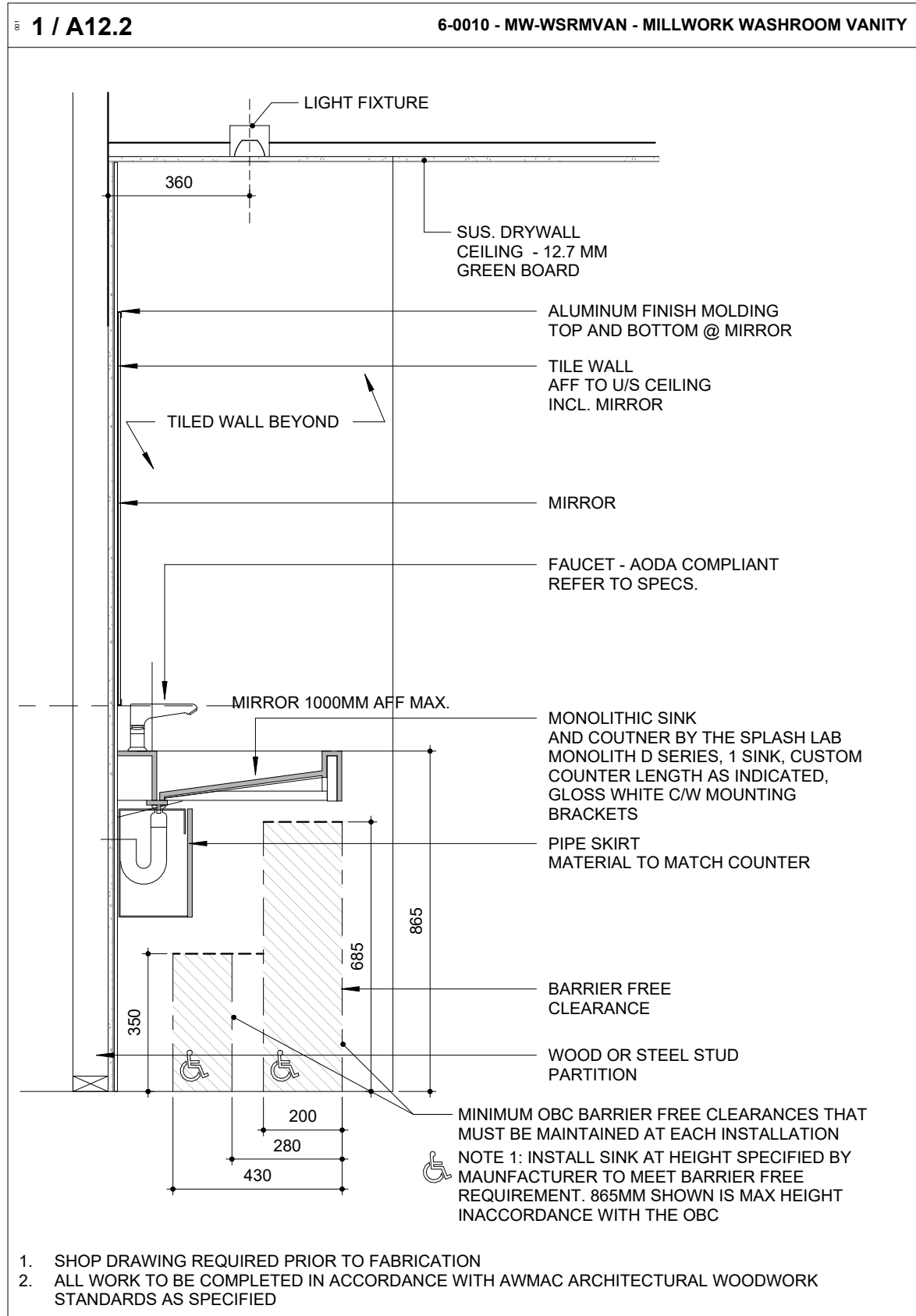
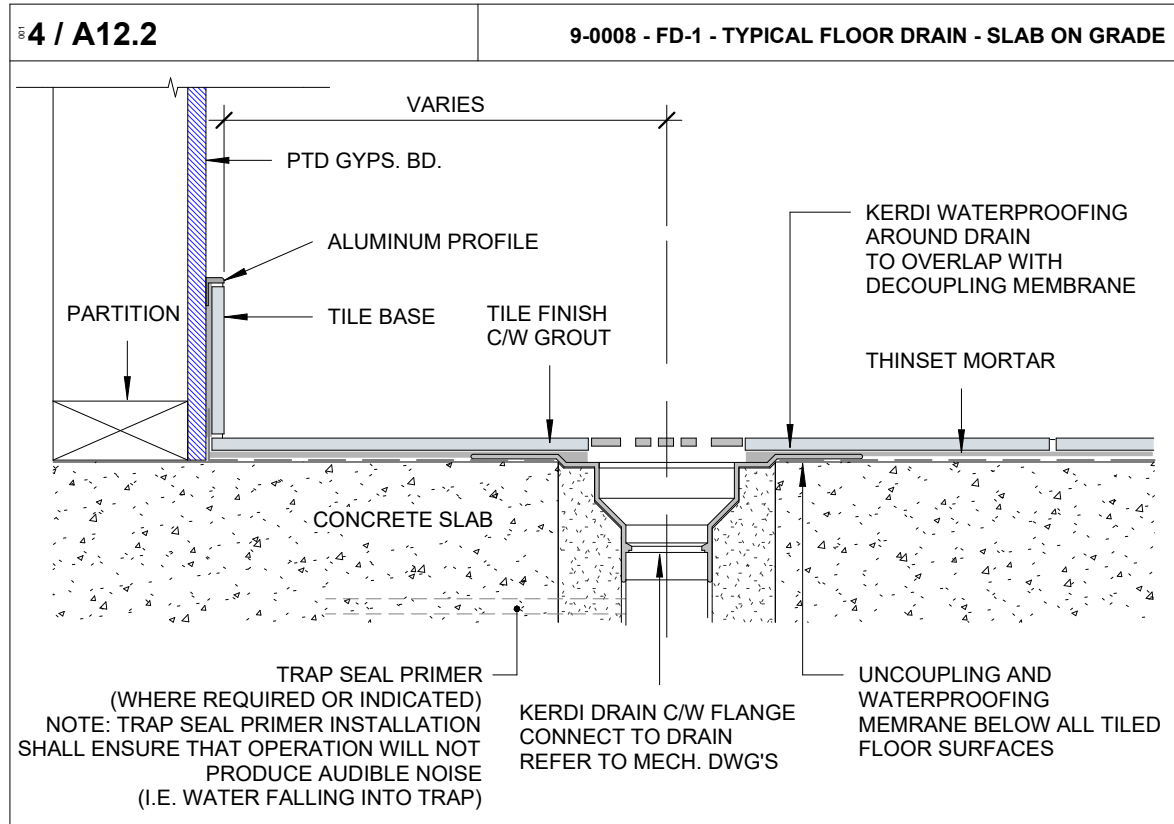
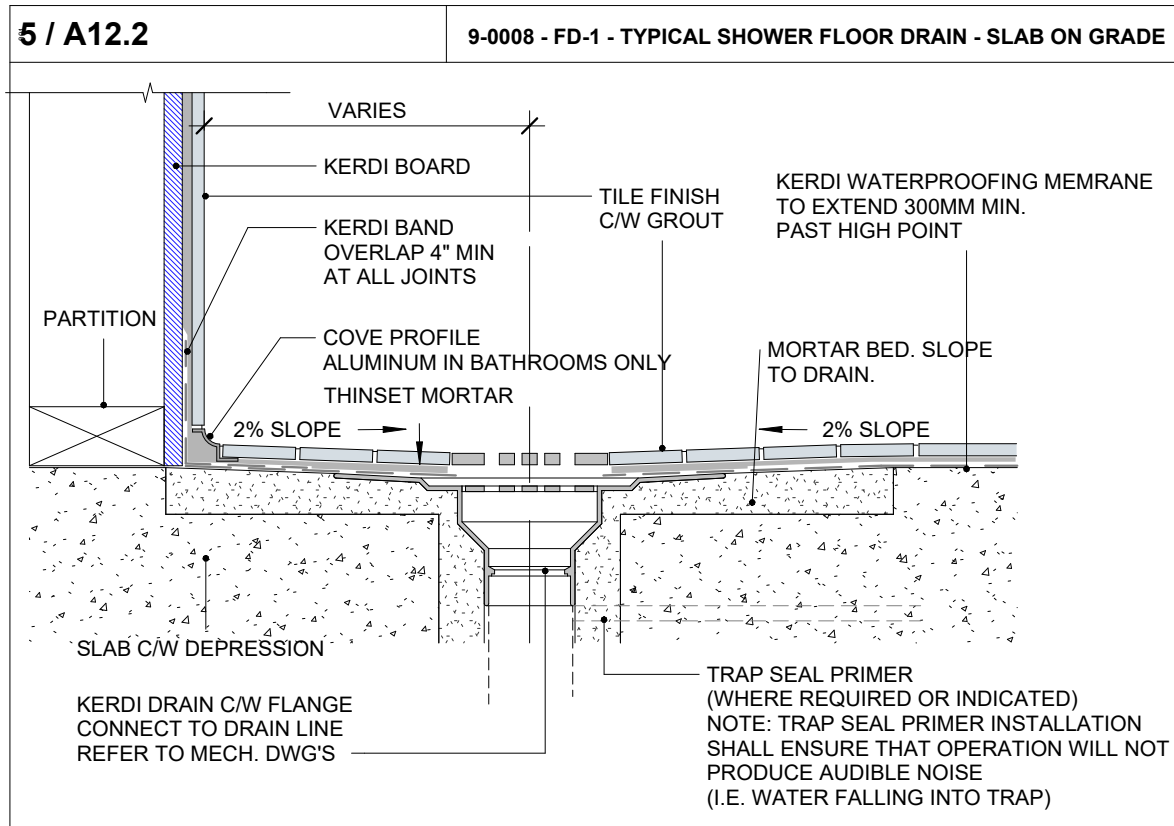
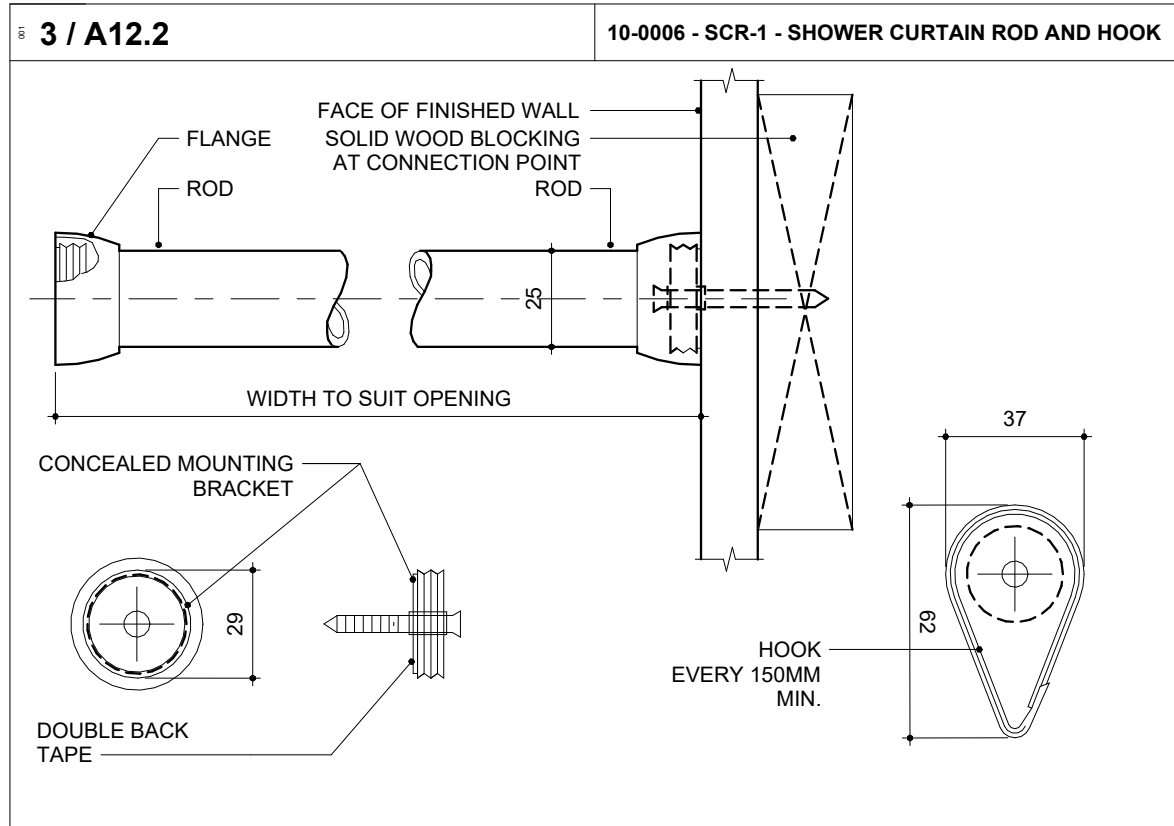
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DATE	2021-11-24
SCALE	1 : 30
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A12.1
REVISION	30

2024-09-09 4:11:54 PM





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26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT :

CLIENT :

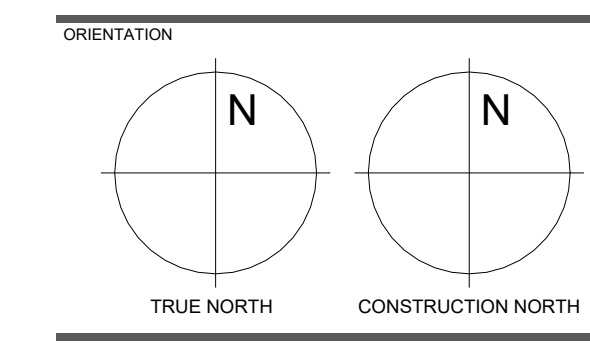


THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
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197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE
**WASHROOM
DETAILS**



DATE: 2021-11-24

SCALE: As indicated | DRAWN BY: Author

DWG STATUS: TENDER

PROJECT No.: 2104

DRAWING No.: **A12.2** | REVISION: 30

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NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
16	DD CLIENT REVIEW	2023-07-24
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFC	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

PROJECT:

CLIENT:



VAUGHAN

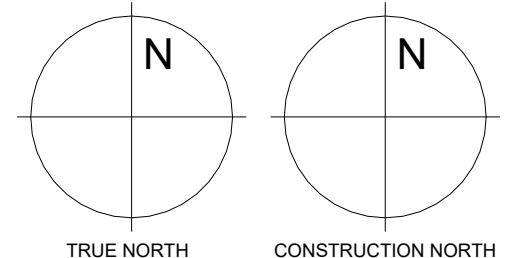
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
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197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

MILLWORK PLANS AND ELEVATIONS & DETAILS

ORIENTATION



DATE: 2021-11-24

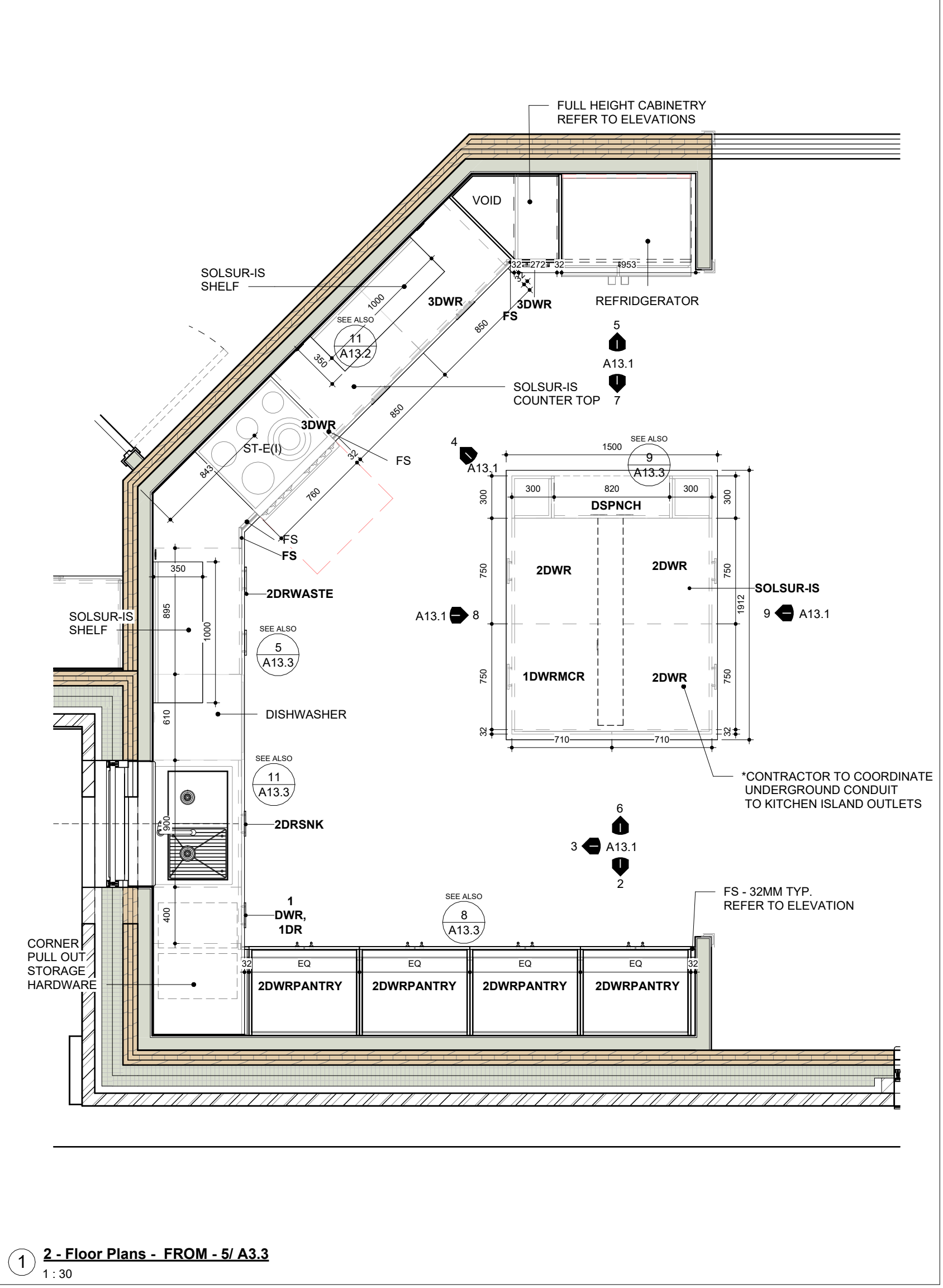
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TENDER

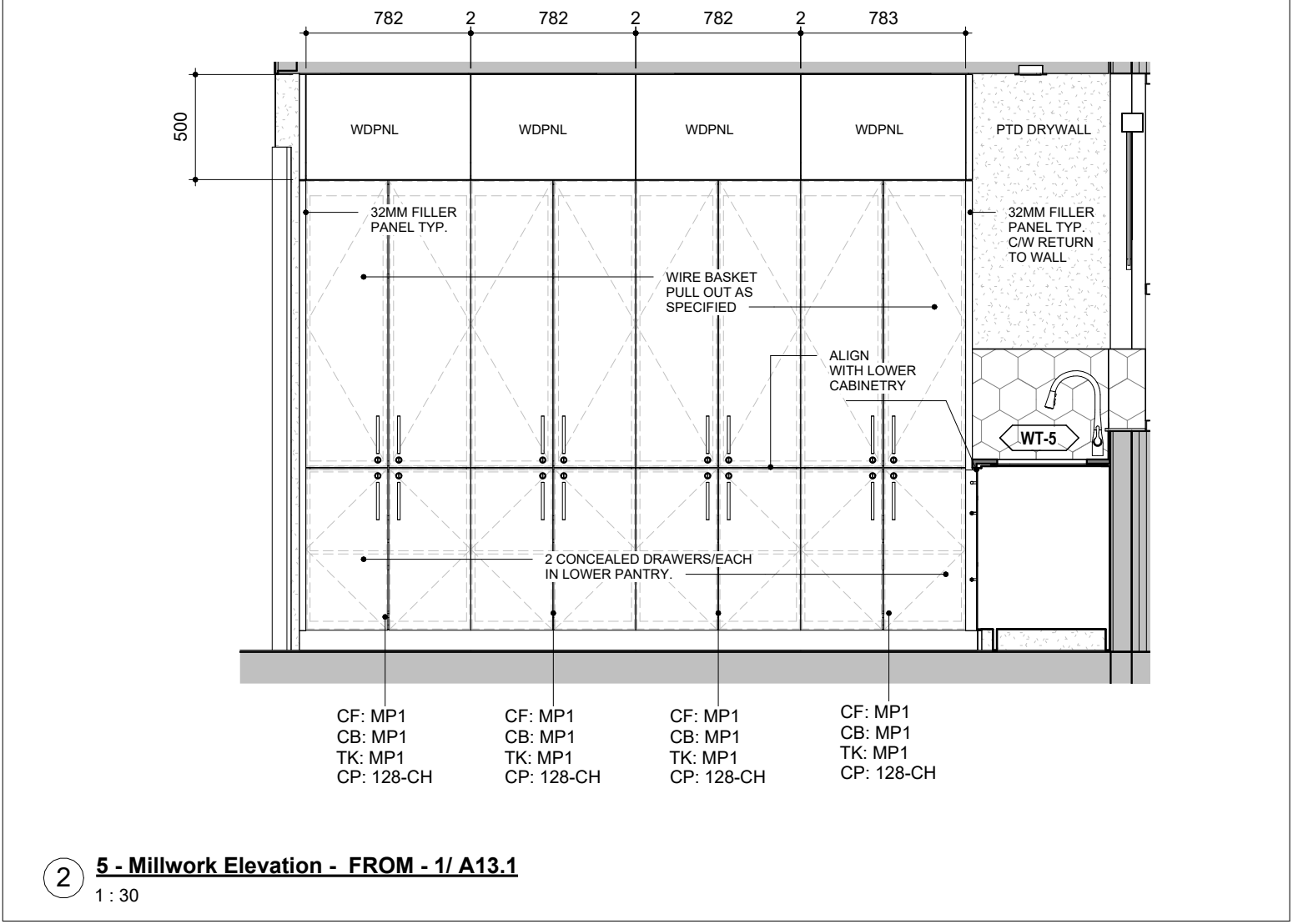
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DRAWING No. **A13.1** REVISION 30

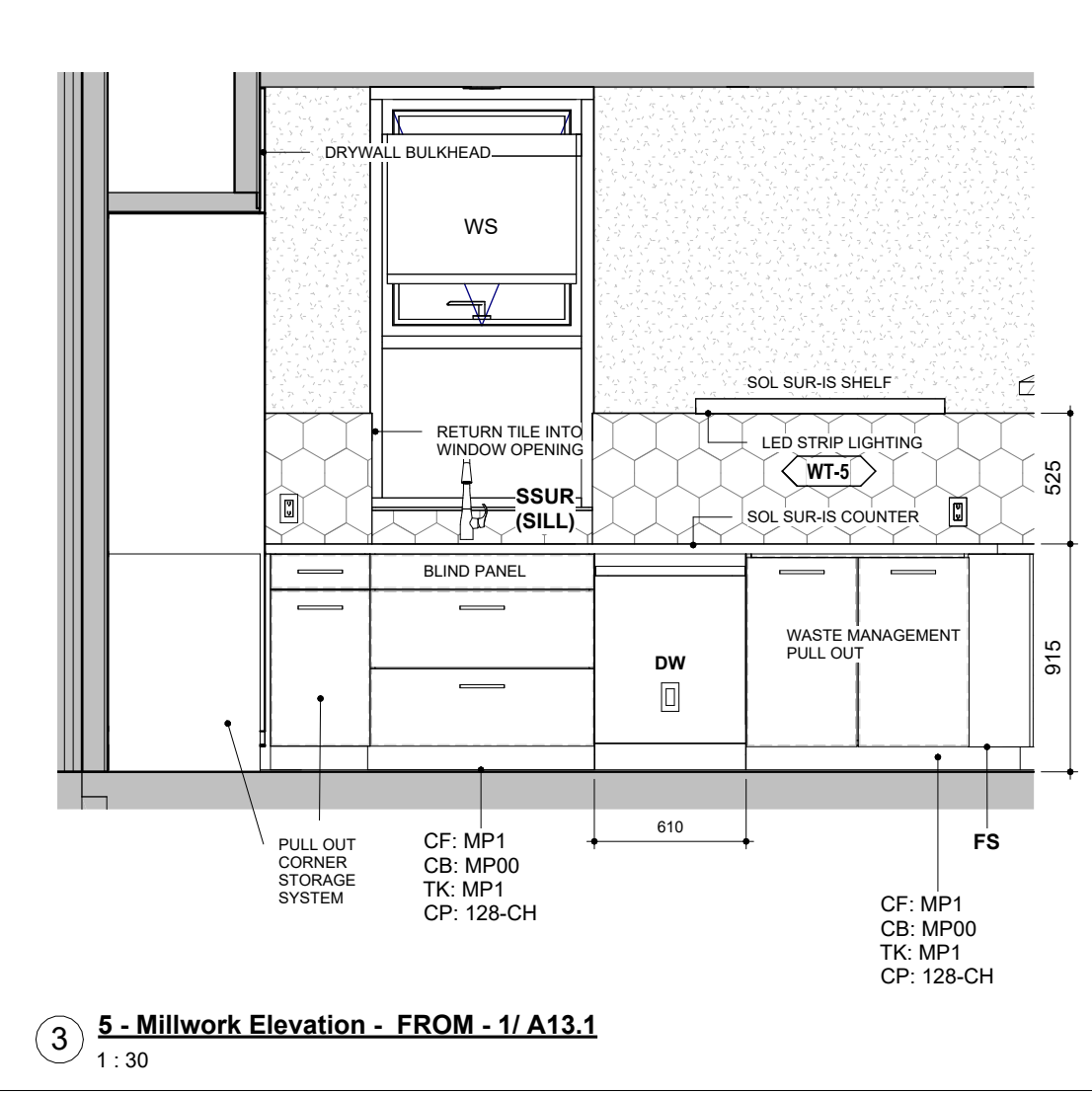
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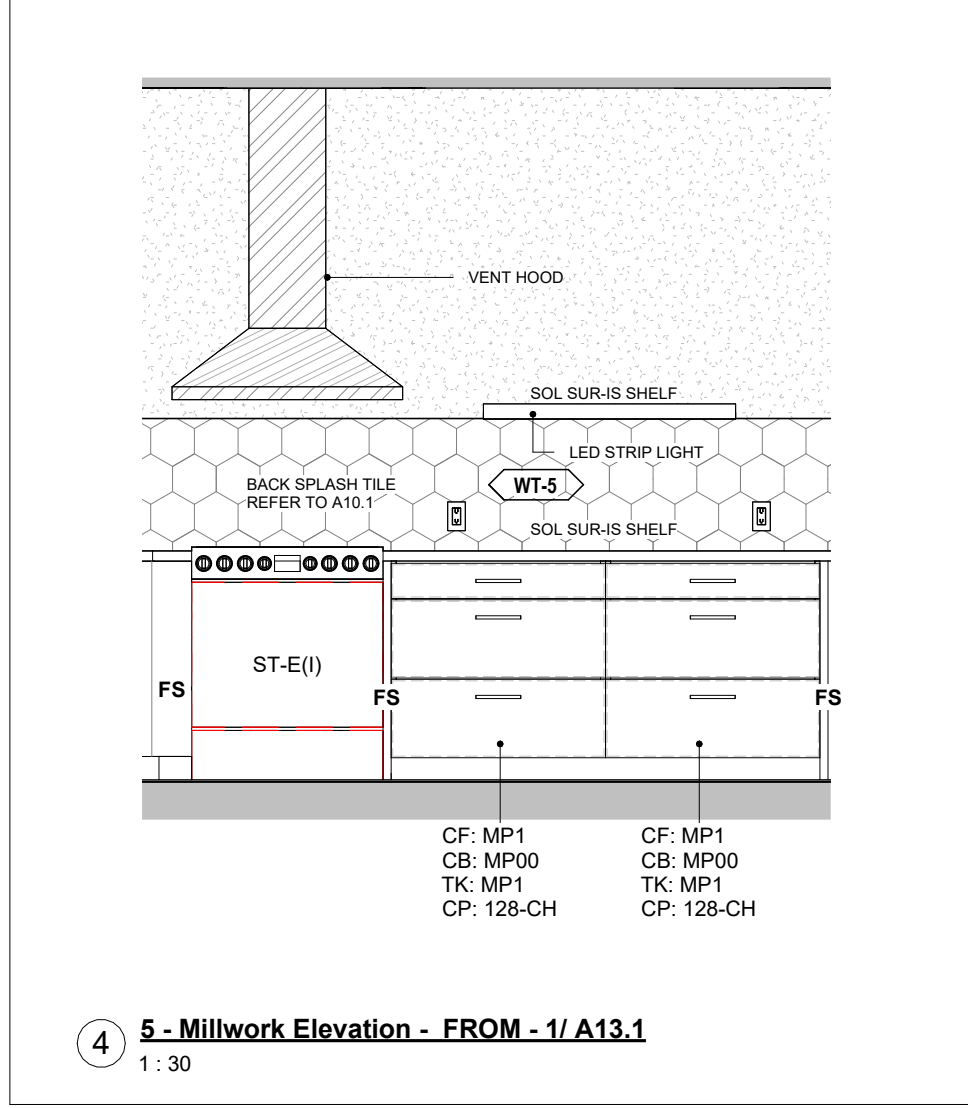
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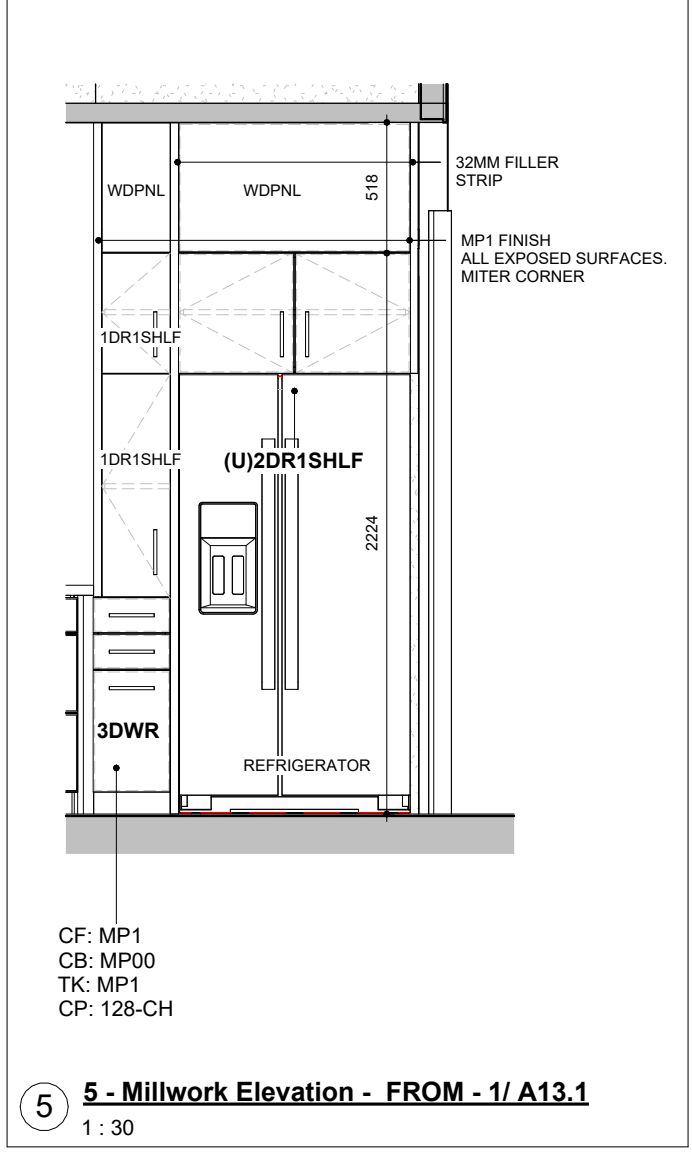
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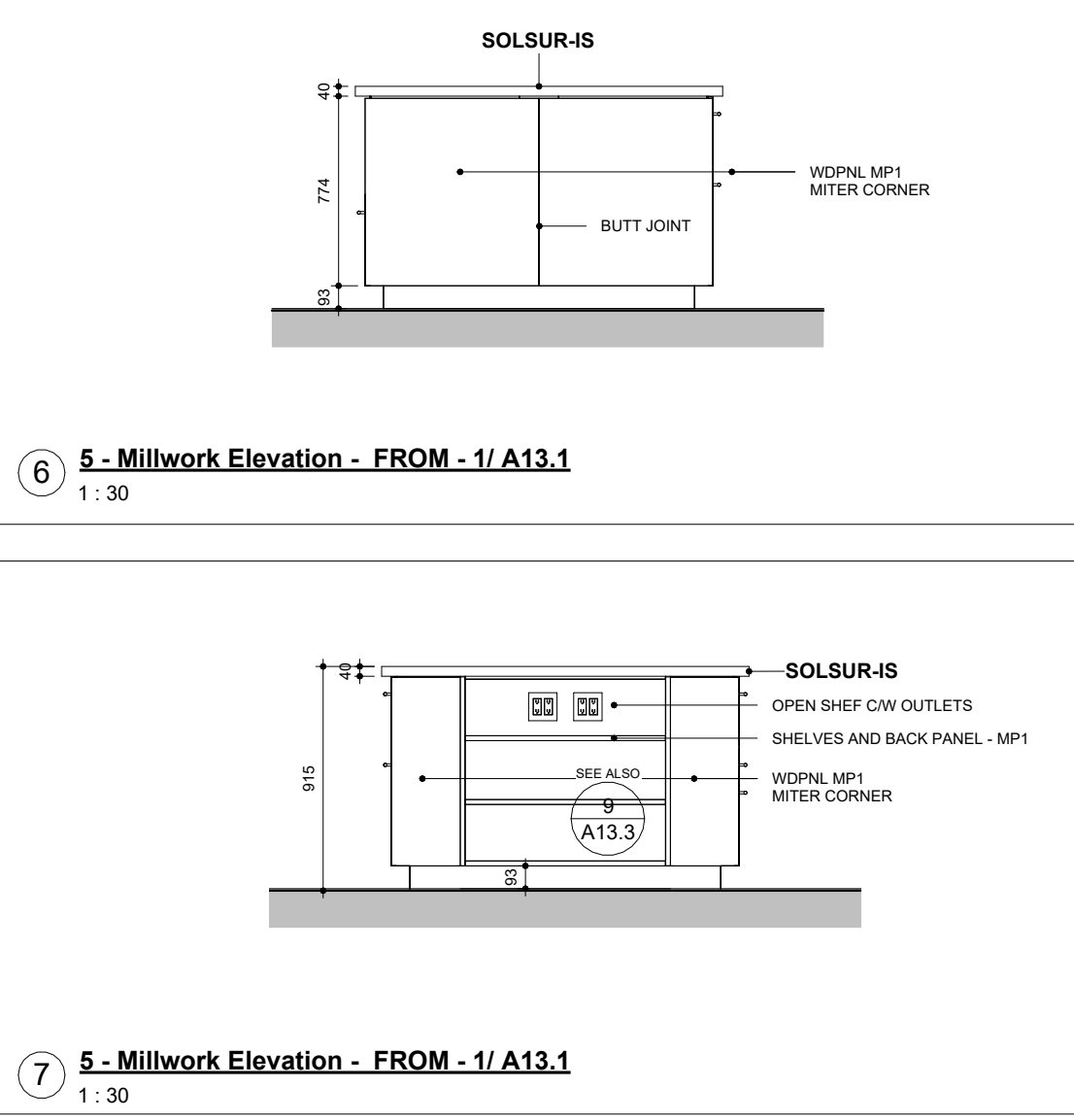
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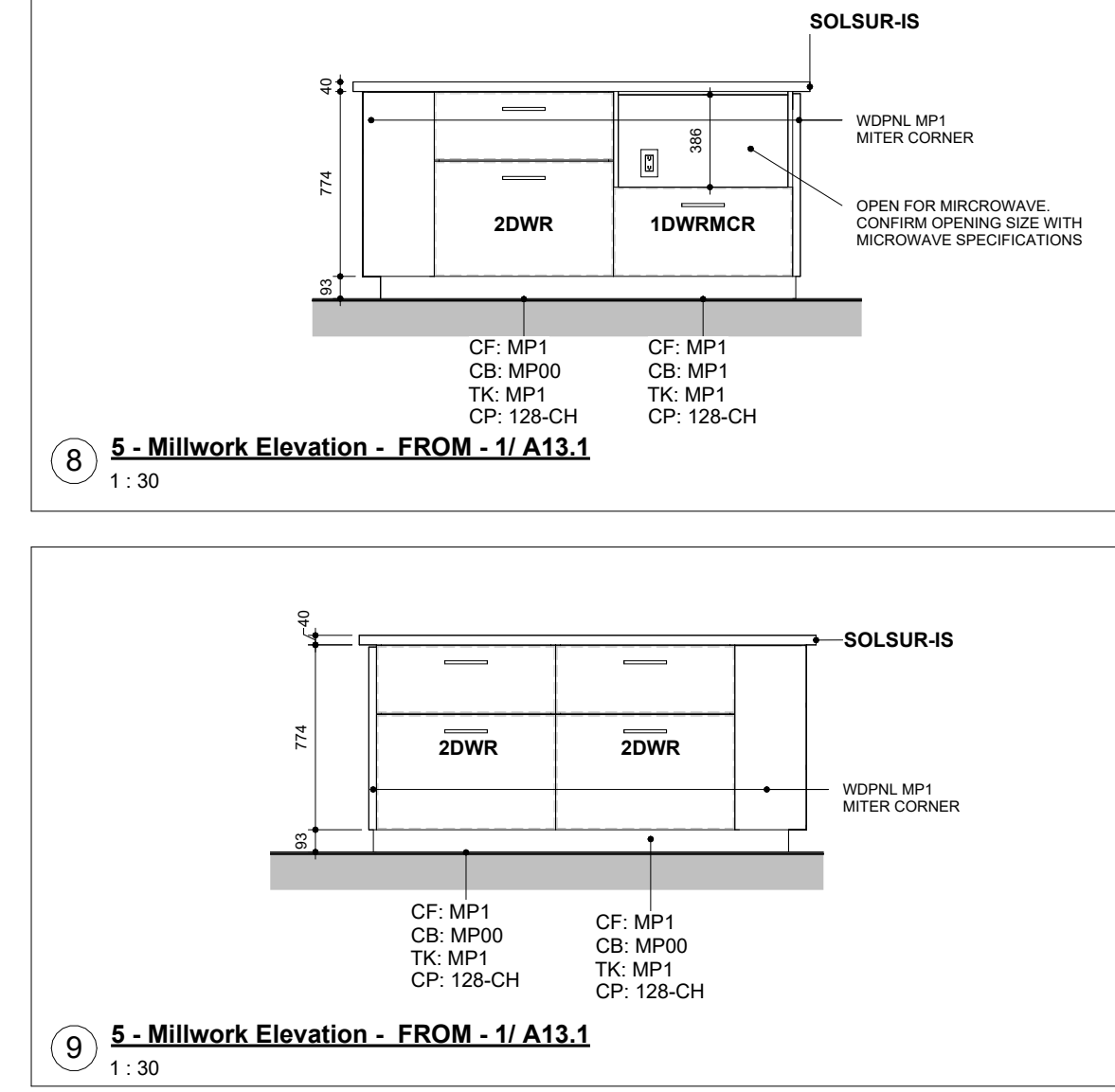
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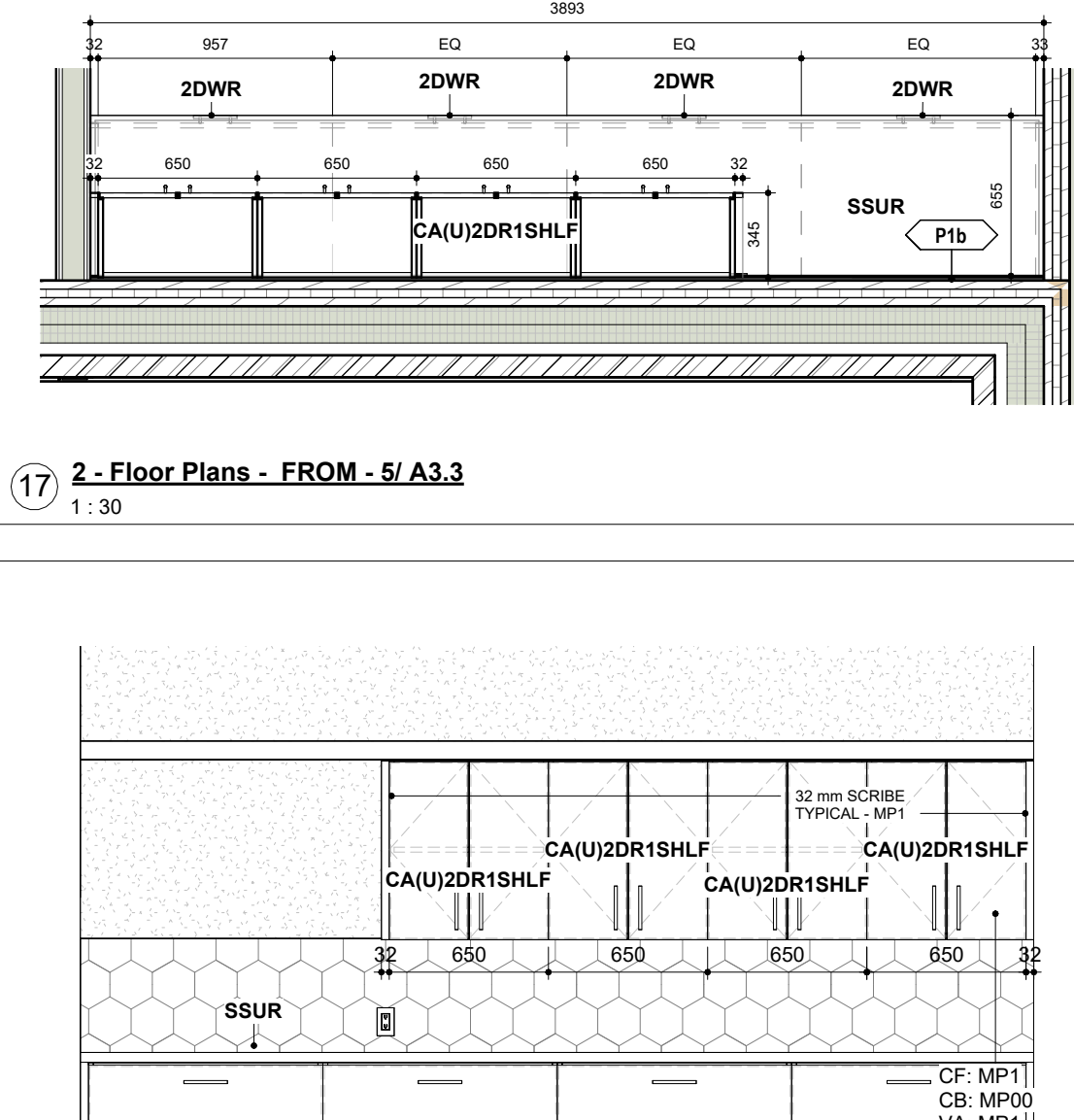
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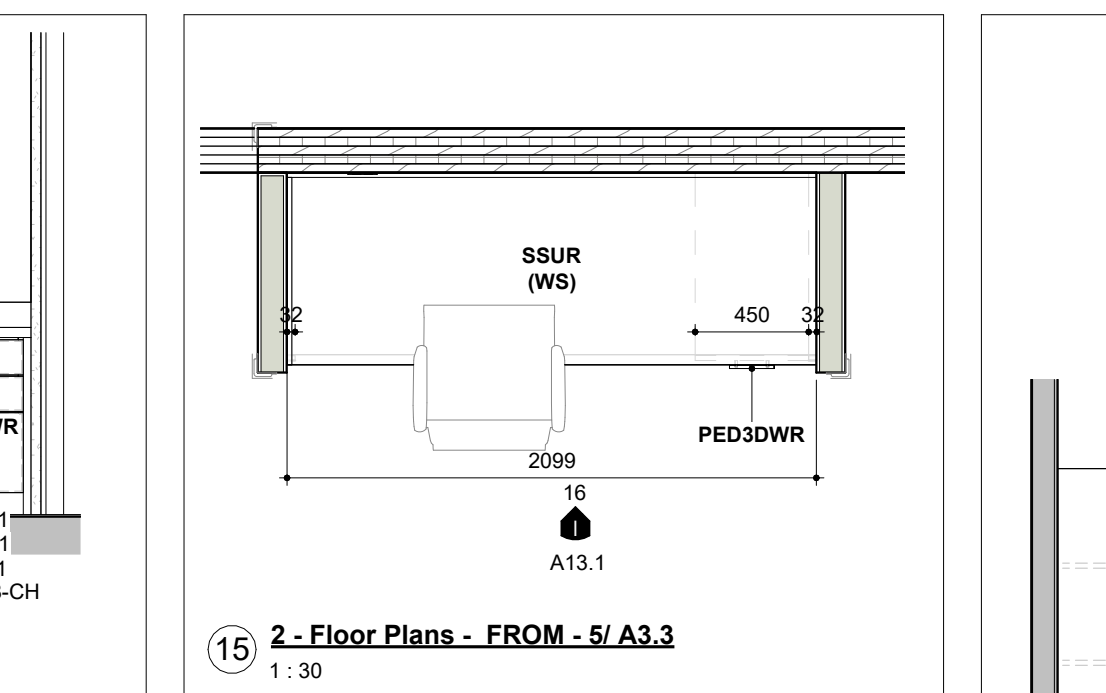
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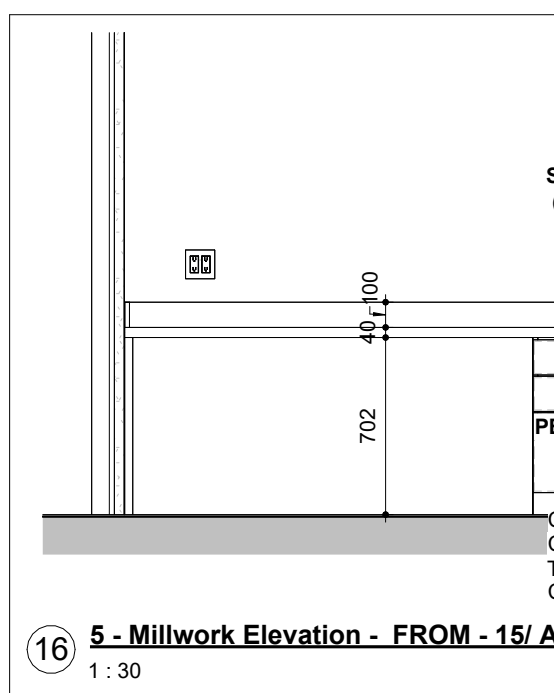
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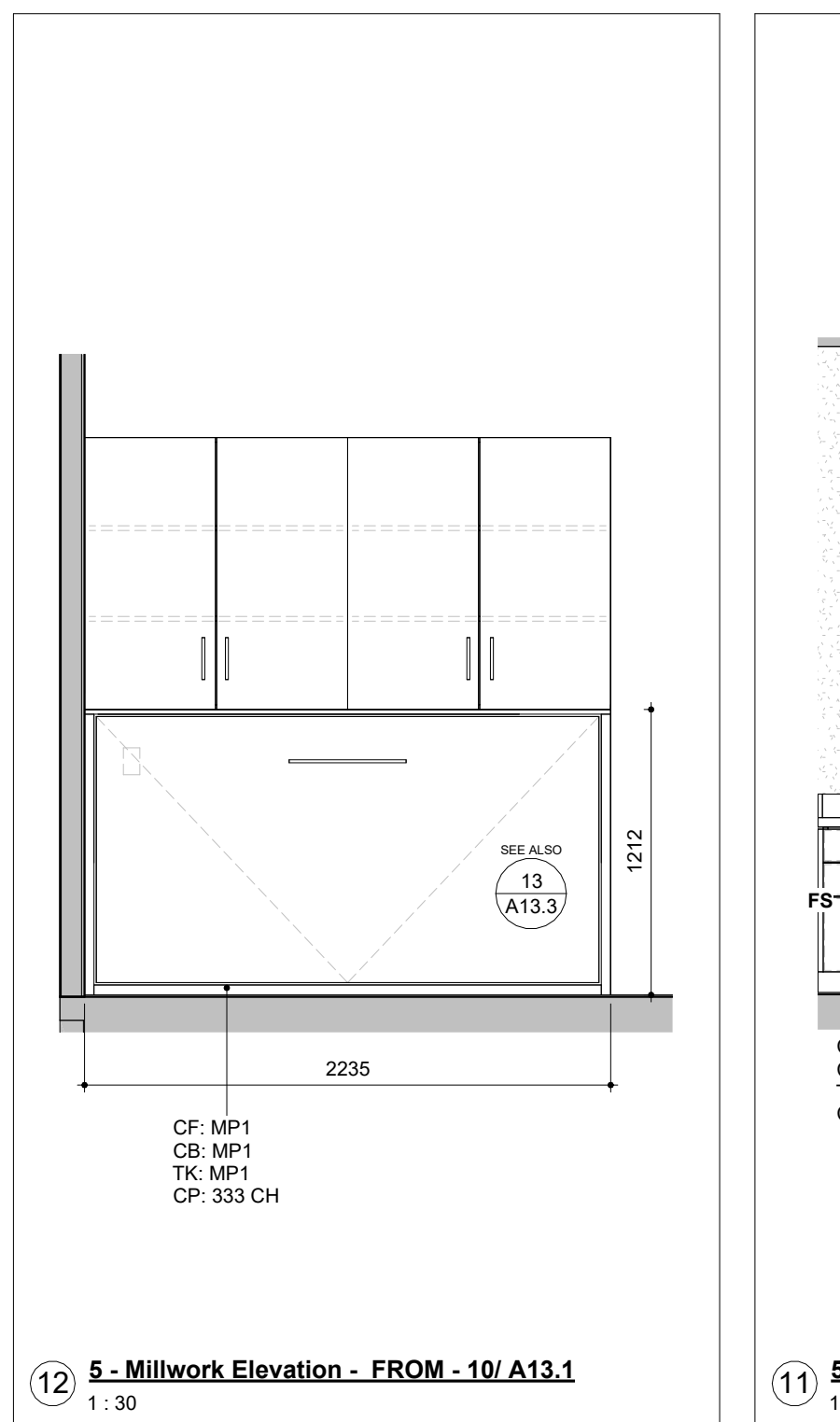
17 2 - Floor Plans - FROM - 5/ A3.3
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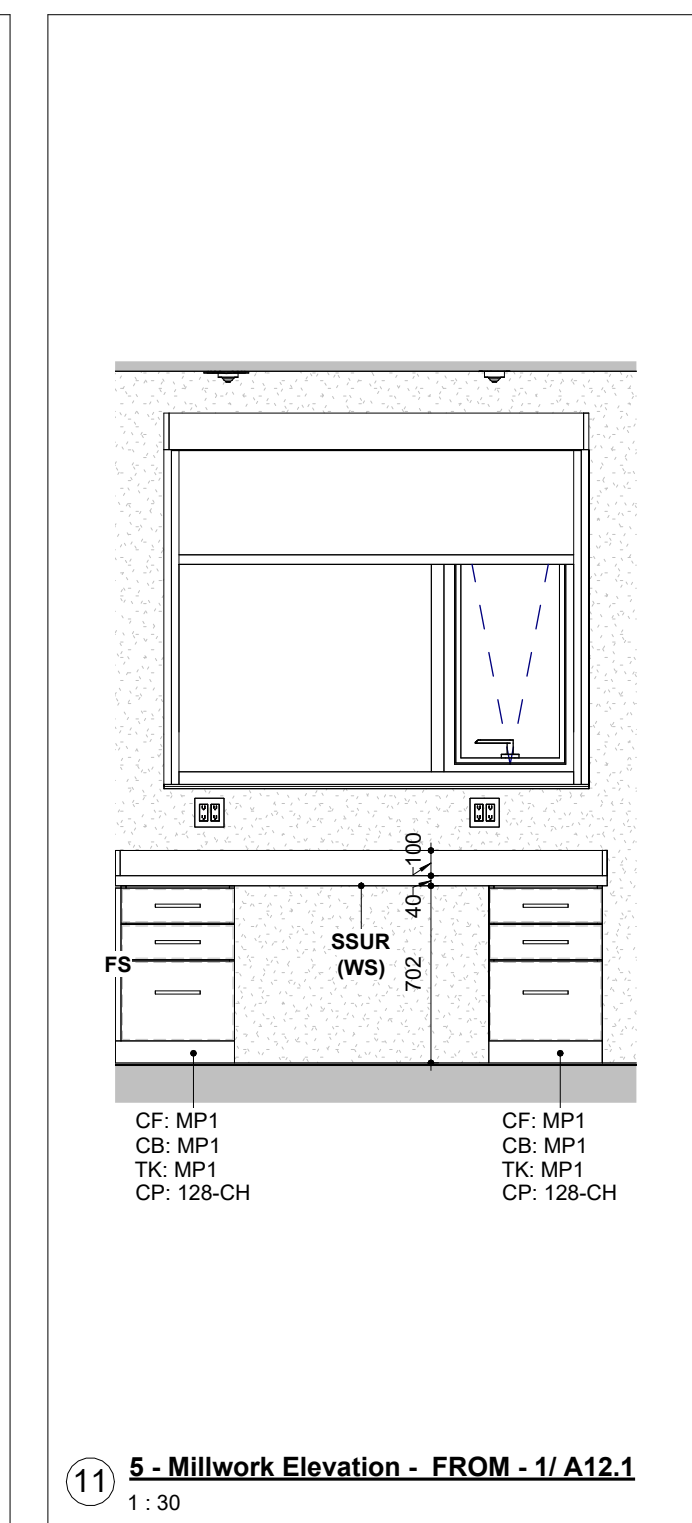
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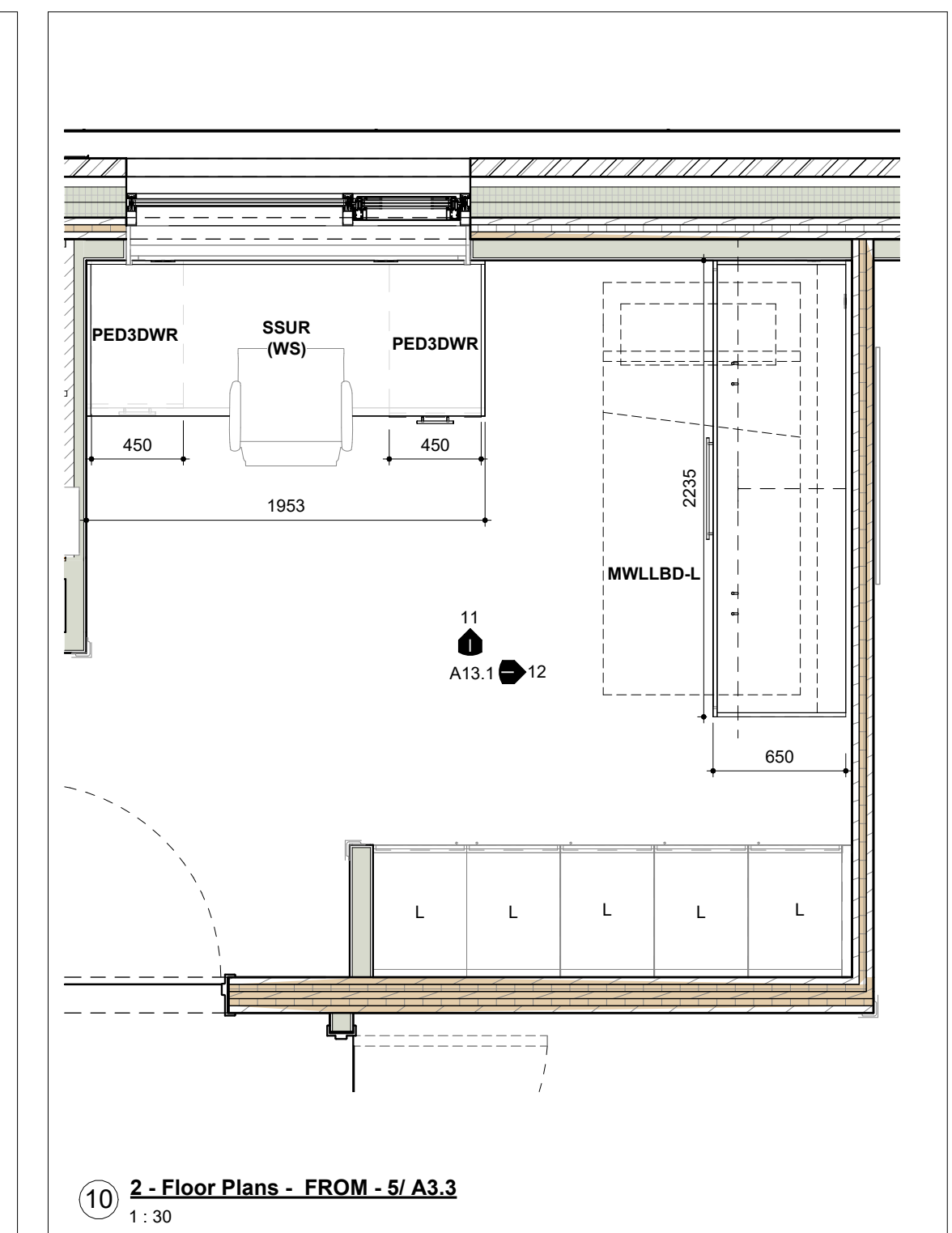
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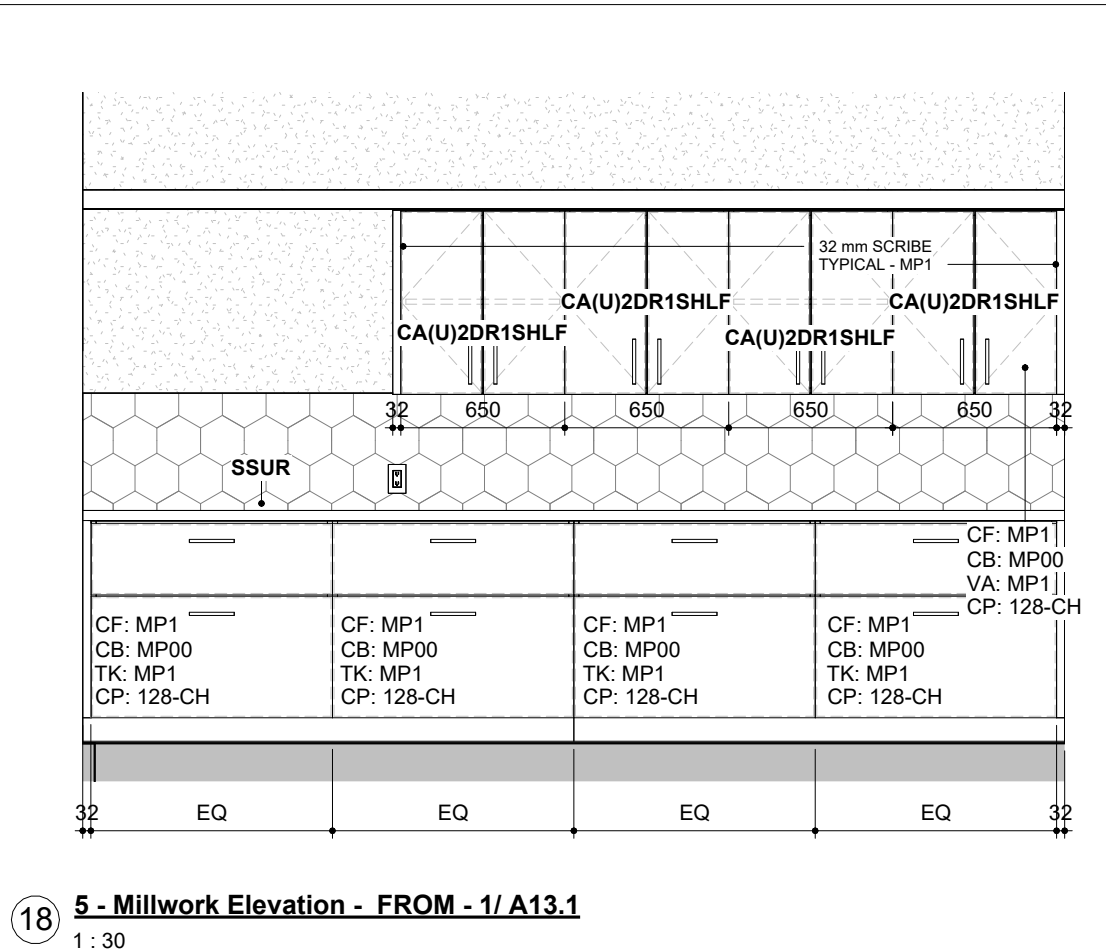
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11 5 - Millwork Elevation - FROM - 1/ A12.1
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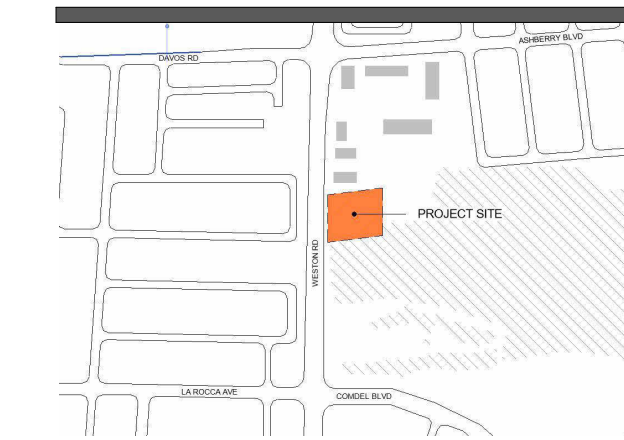


10 2 - Floor Plans - FROM - 5/ A3.3
1:30



18 5 - Millwork Elevation - FROM - 1/ A13.1
1:30

NO.	ISSUED FOR	DATE
12	2022 UPDATE	2022-12-20
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FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

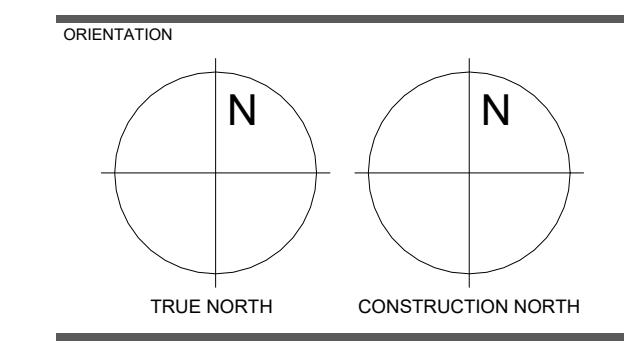


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ARCHITECT
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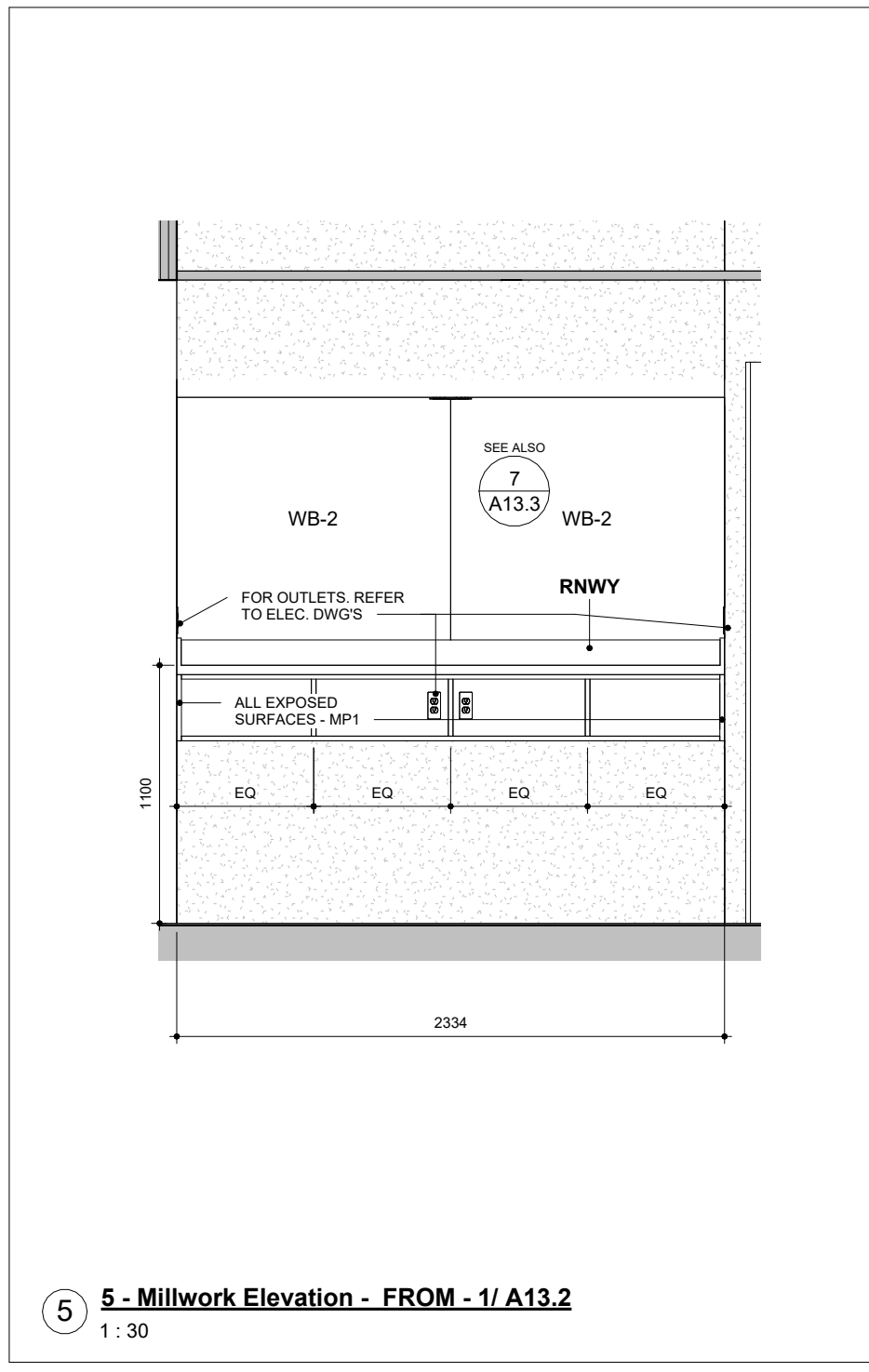
PROFESSIONAL SEAL

MILLWORK PLANS AND ELEVATIONS & DETAILS

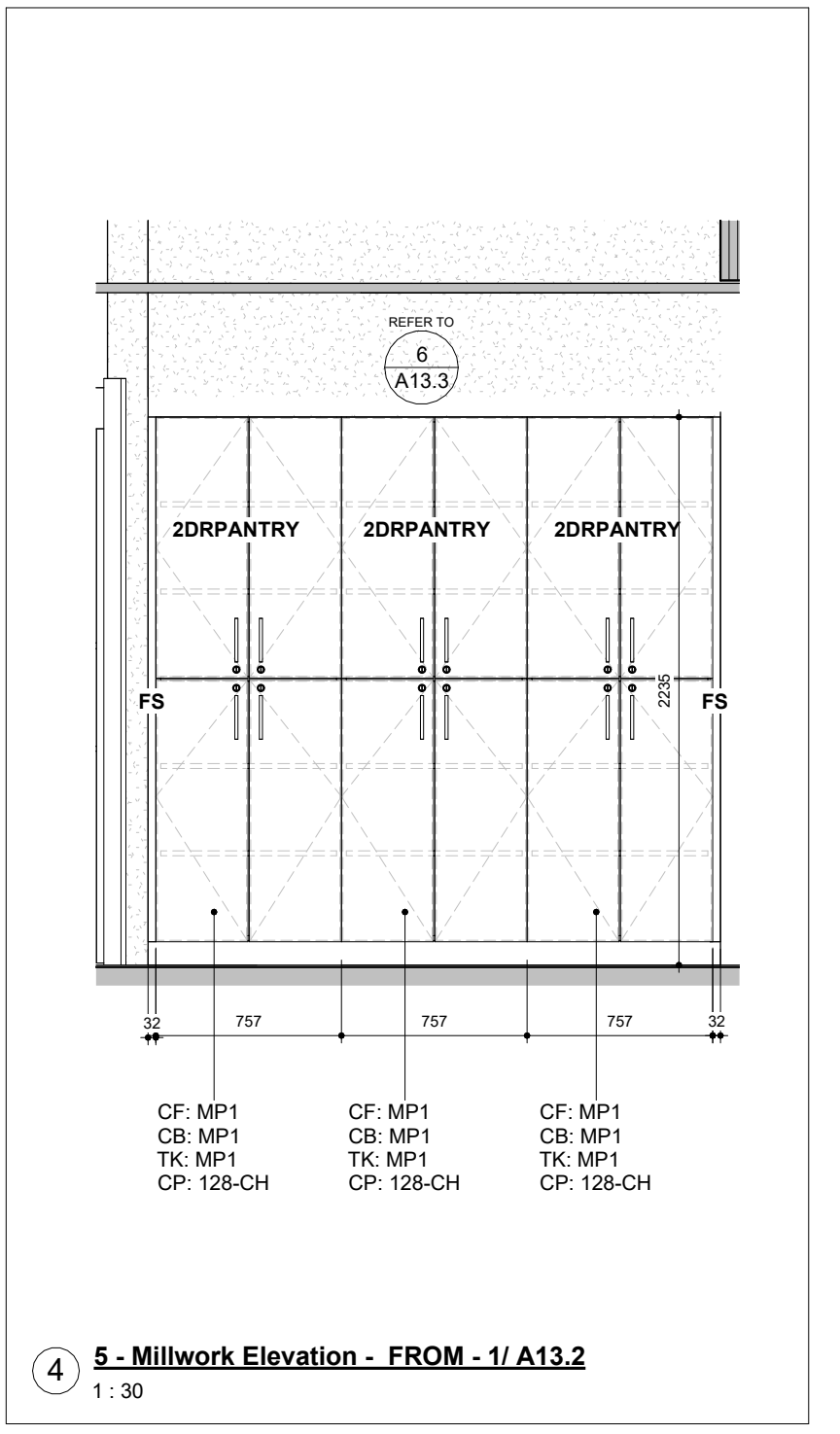


DATE	2021-11-24
SCALE	As indicated
DRAWN BY	Author
DWG STATUS	TENDER
PROJECT No.	2104
DRAWING No.	A13.2
REVISION	30

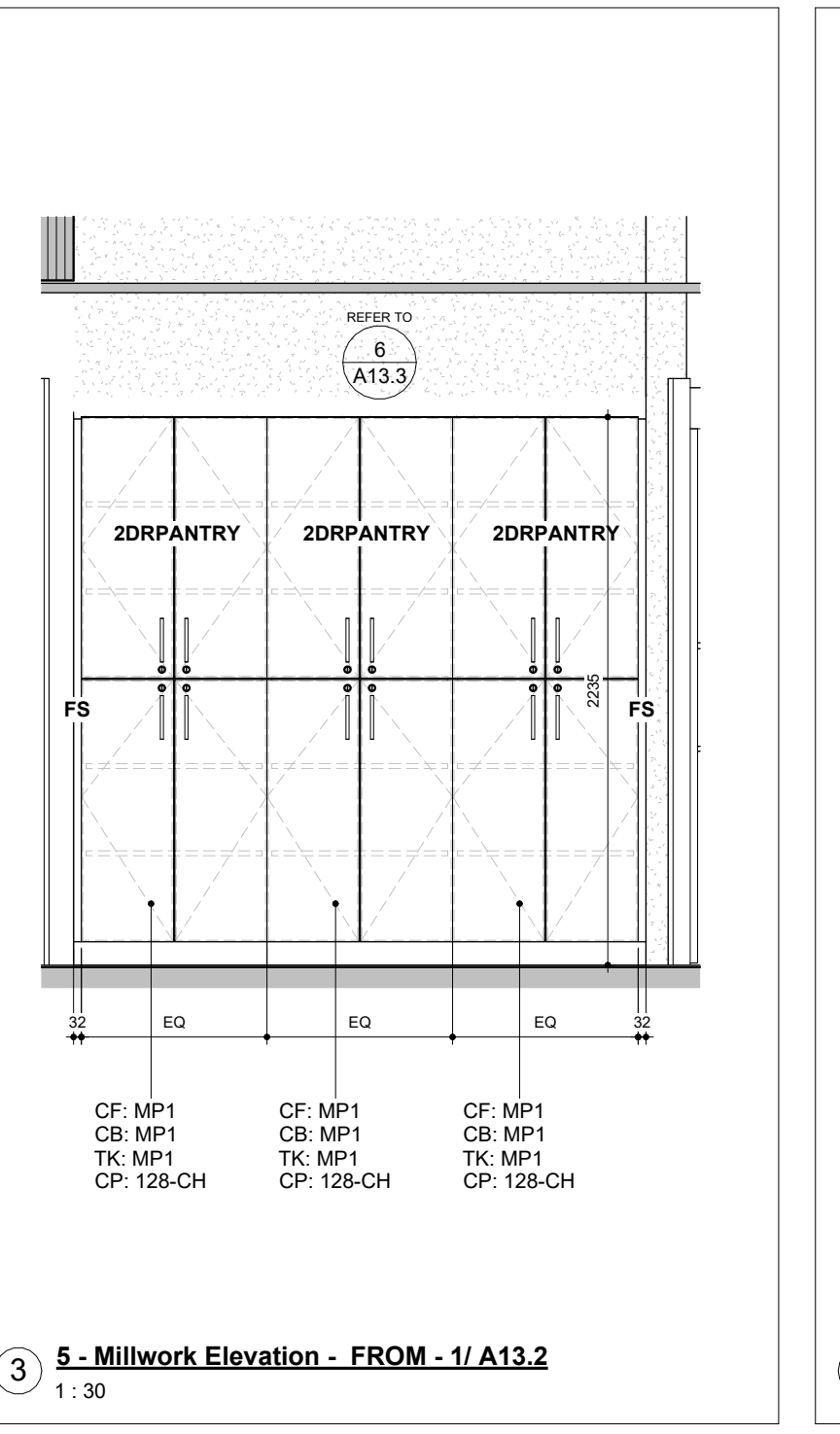
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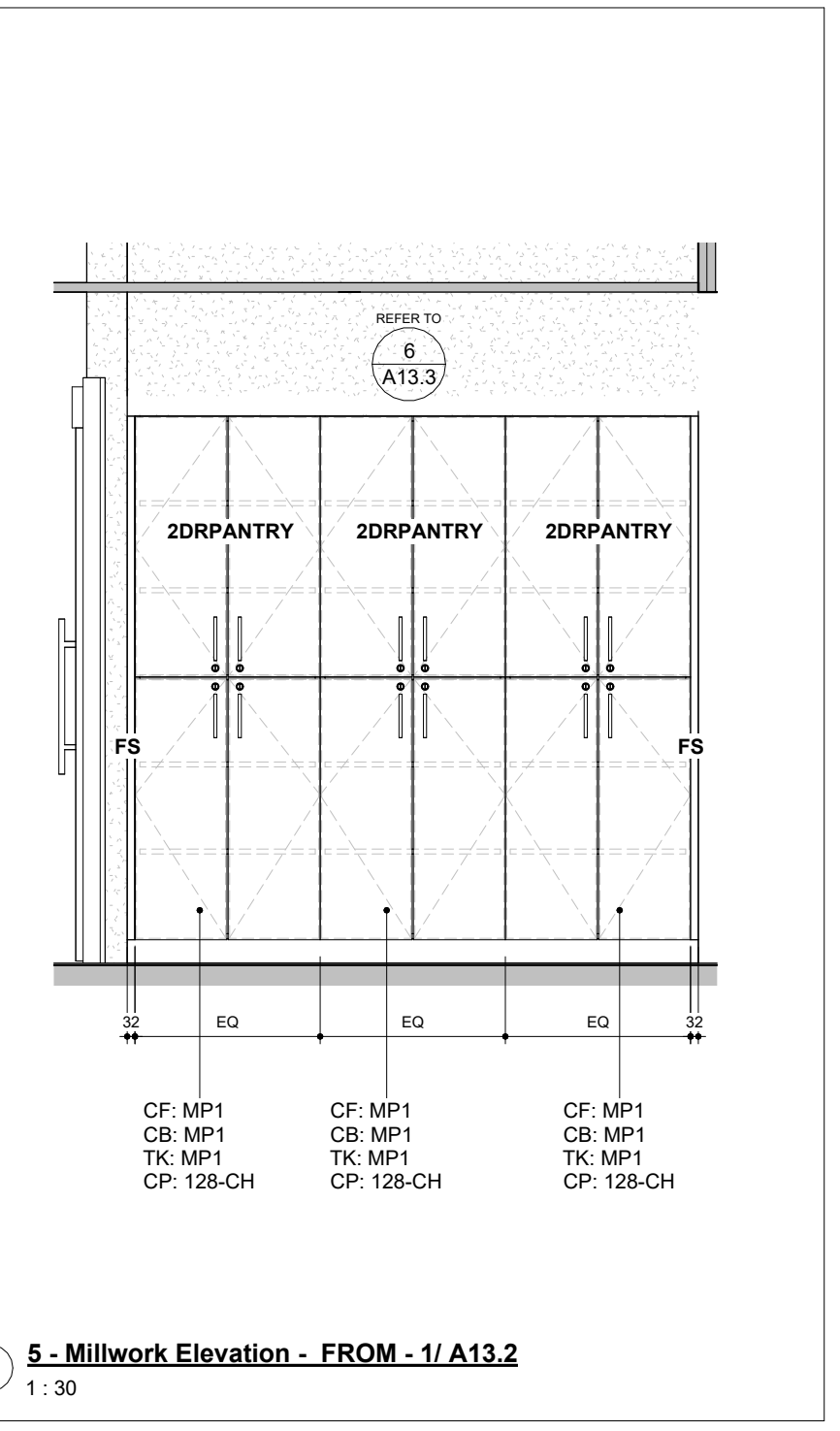
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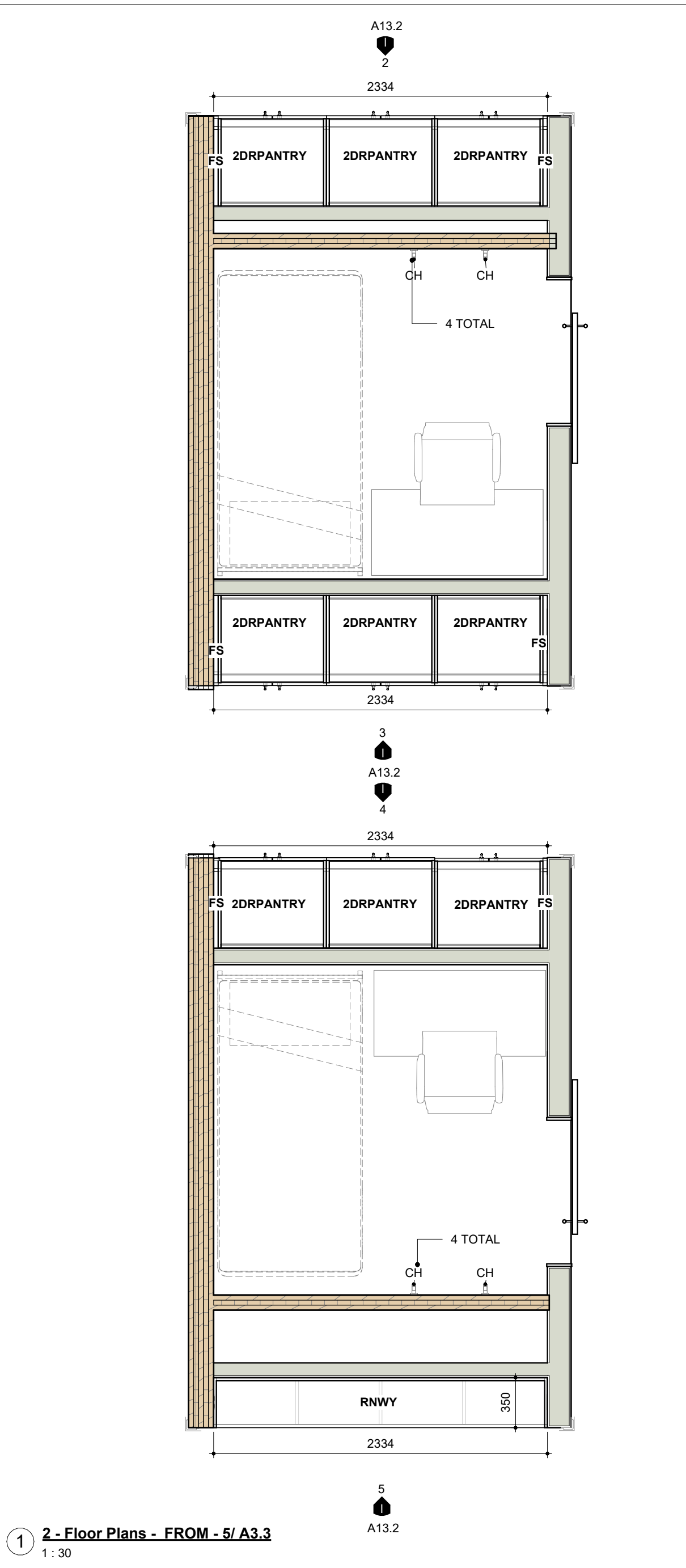
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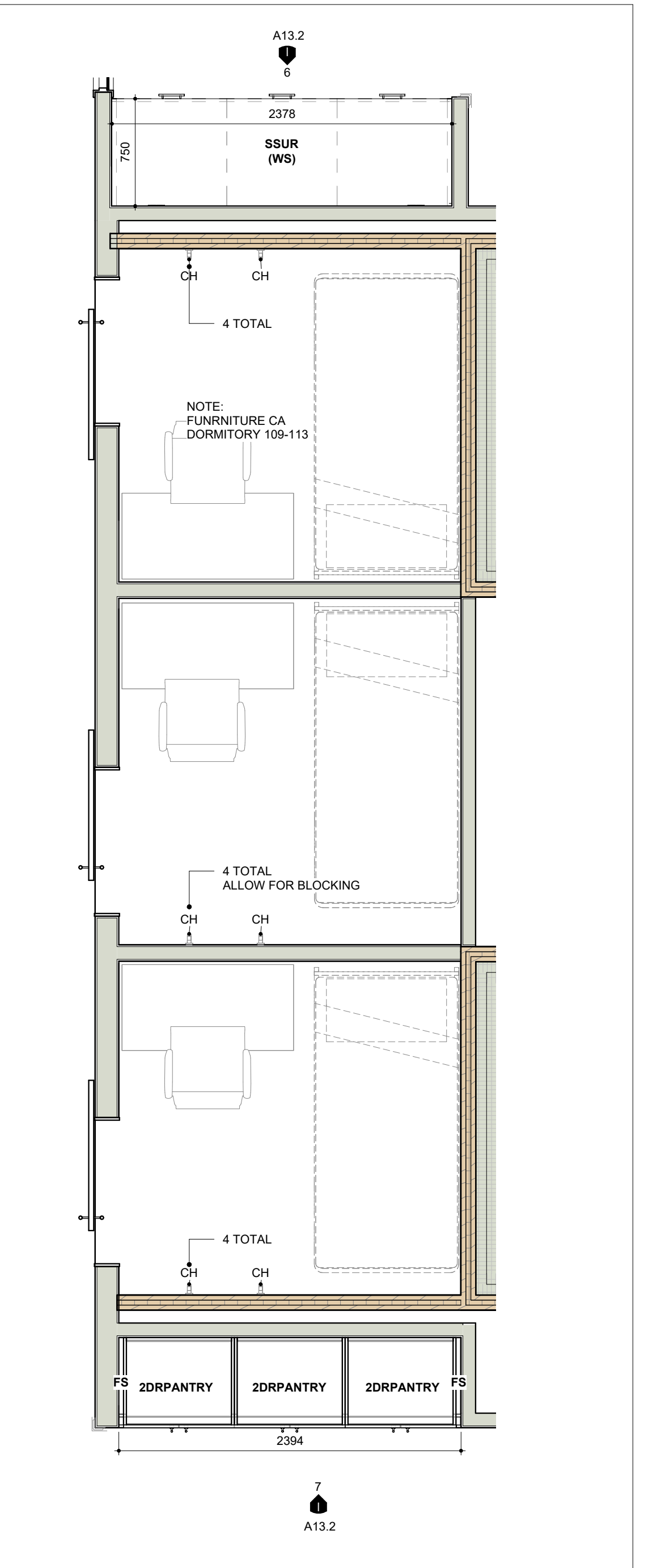
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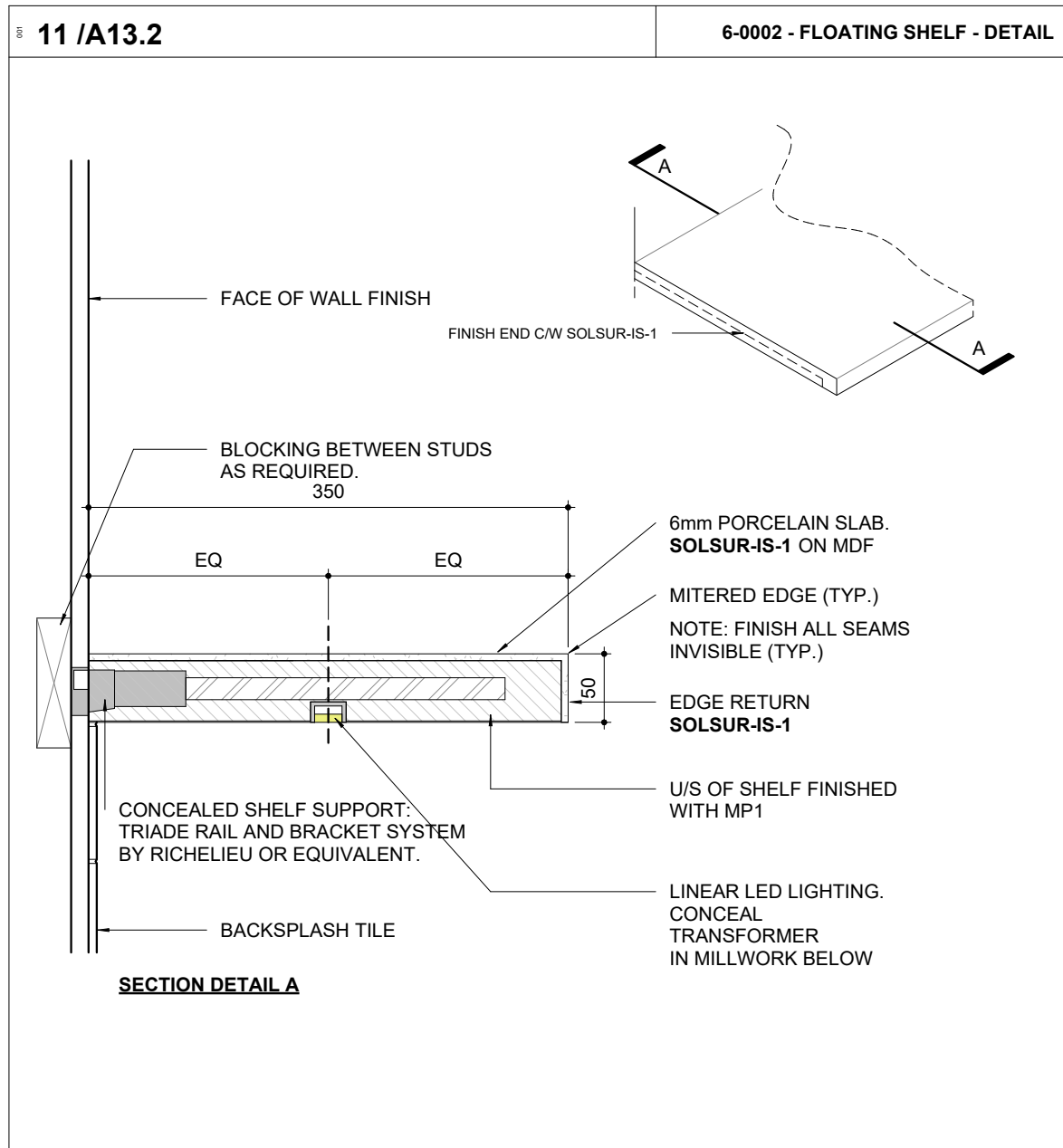
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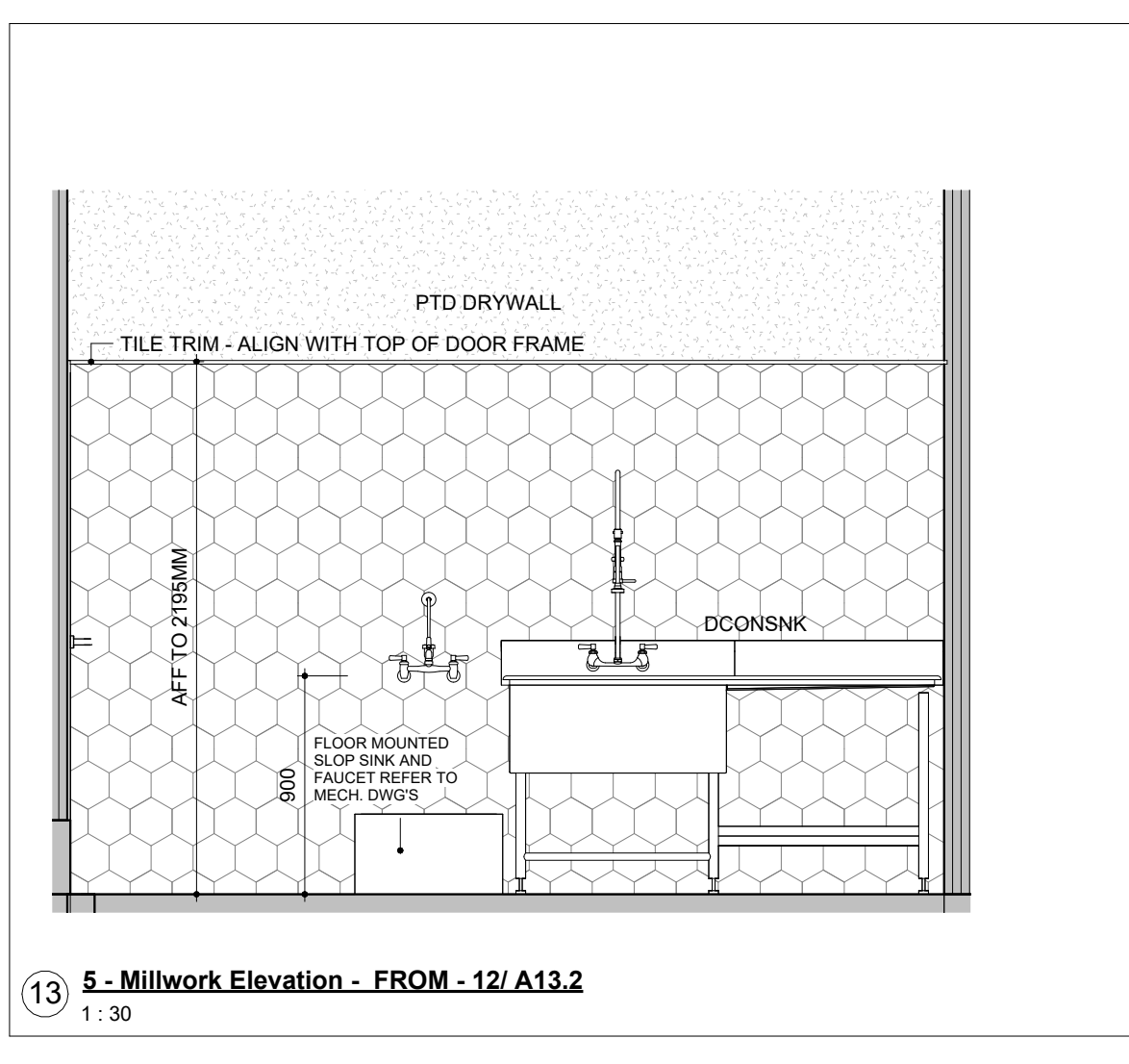
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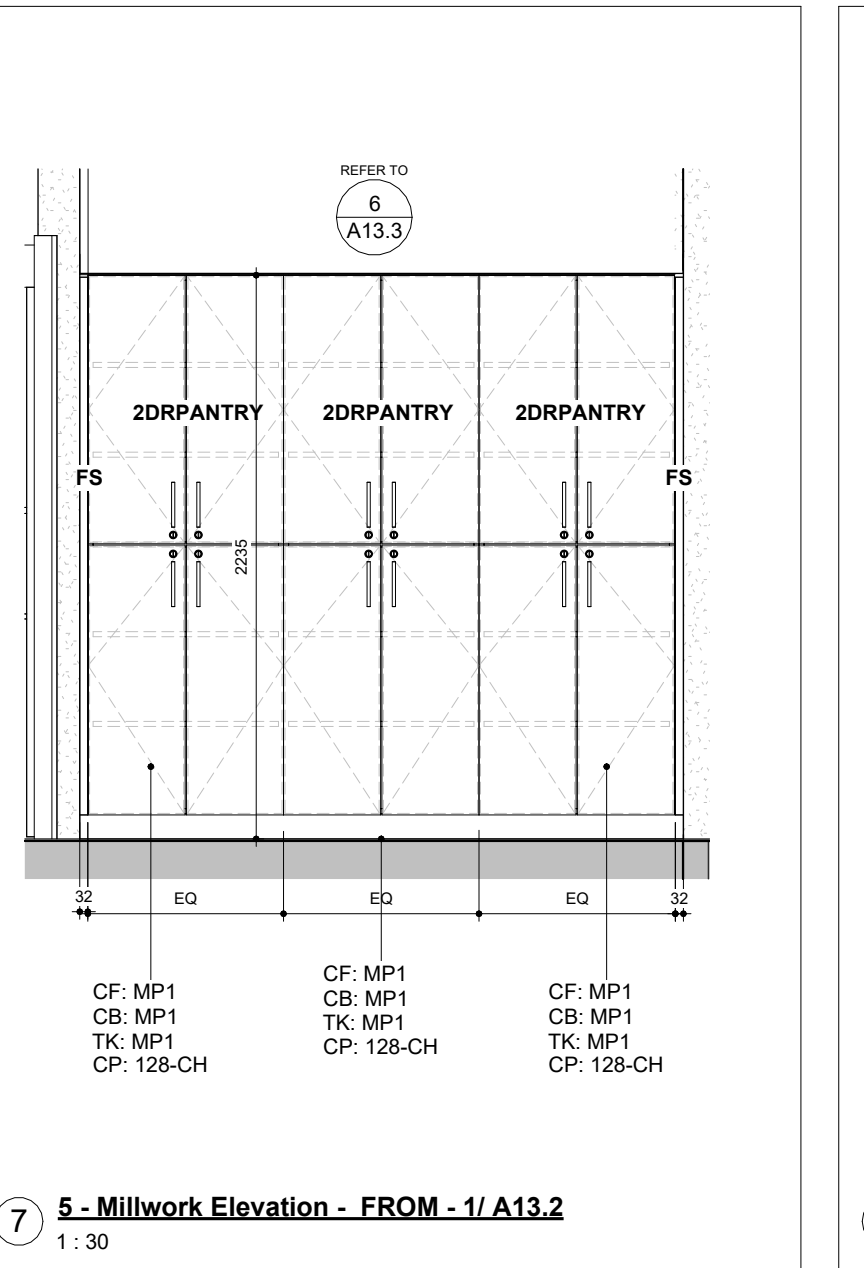
2 - Floor Plans - FROM - 5/ A3.3
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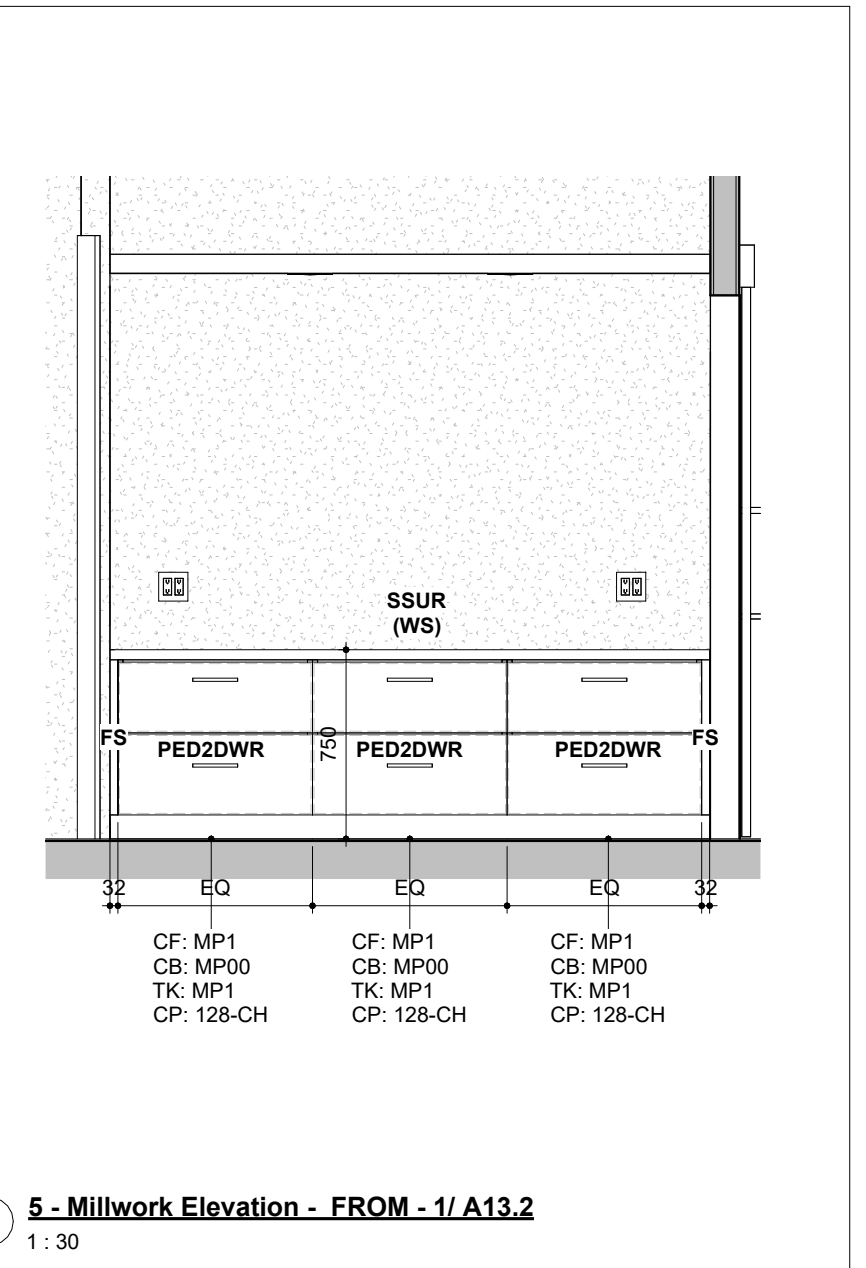
- SHOP DRAWING REQUIRED PRIOR TO FABRICATION
- ALL WORK TO BE COMPLETED IN ACCORDANCE WITH AMMAC ARCHITECTURAL WOODWORK STANDARDS AS SPECIFIED



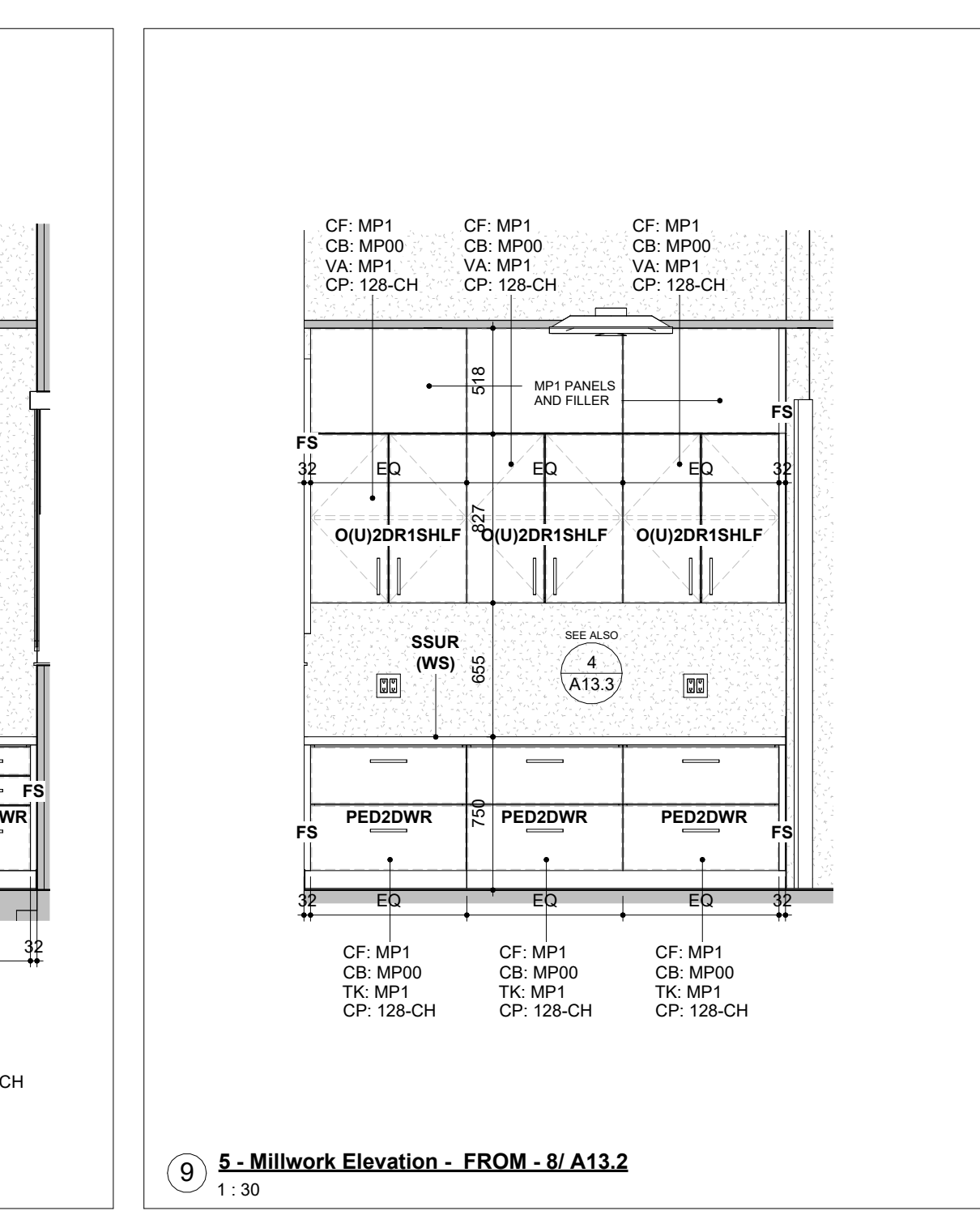
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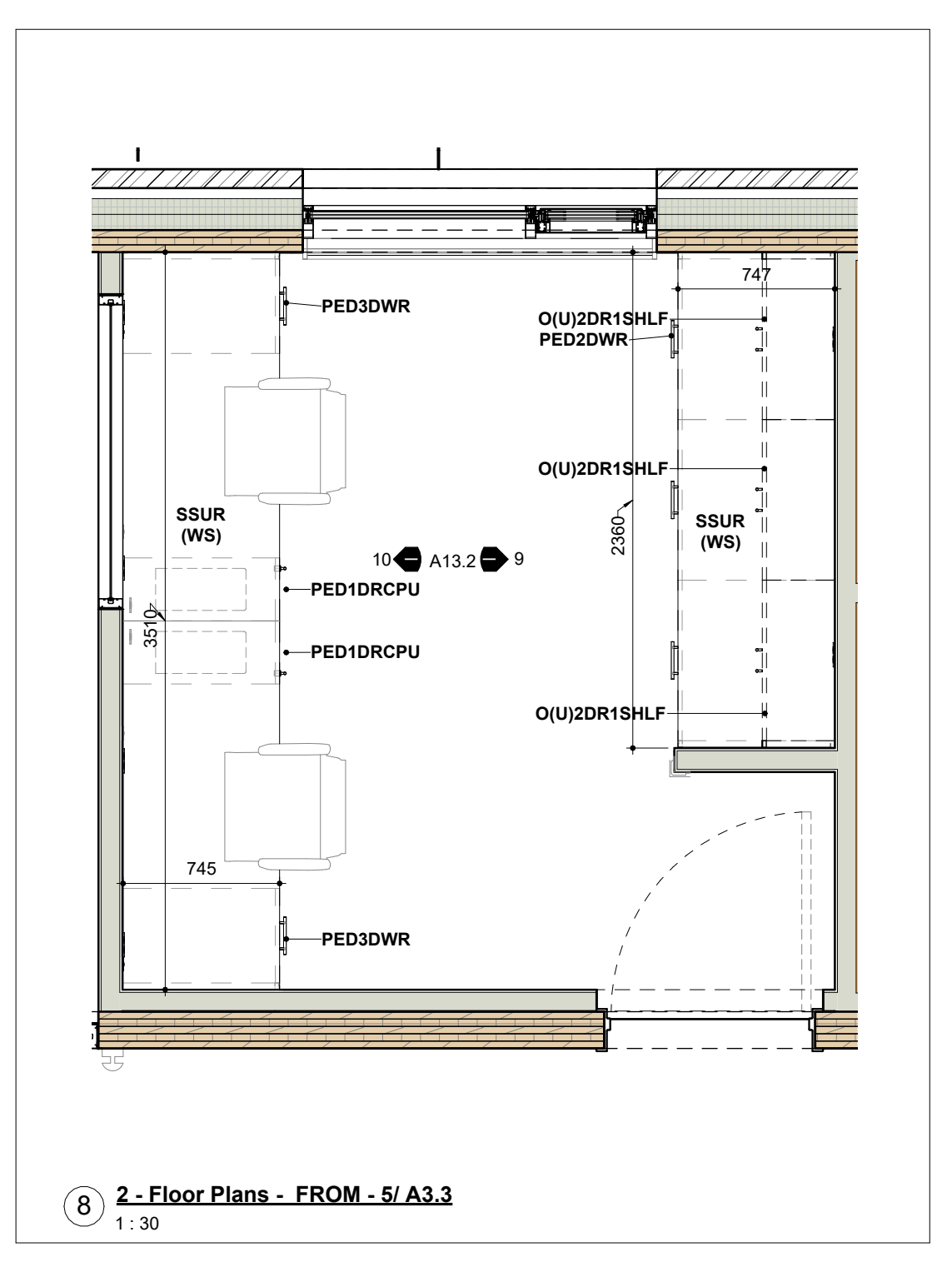
5 - Millwork Elevation - FROM - 1/ A13.2
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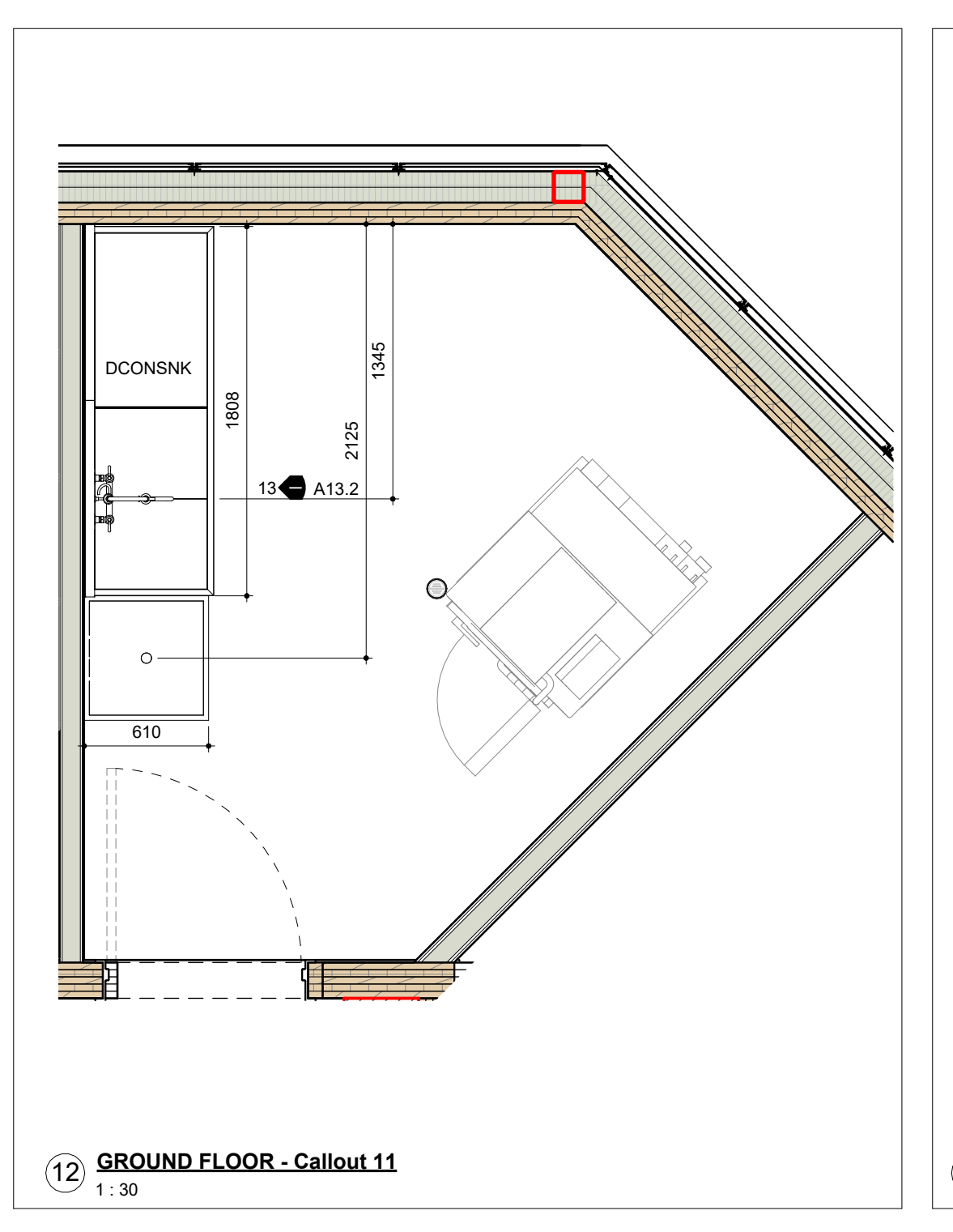
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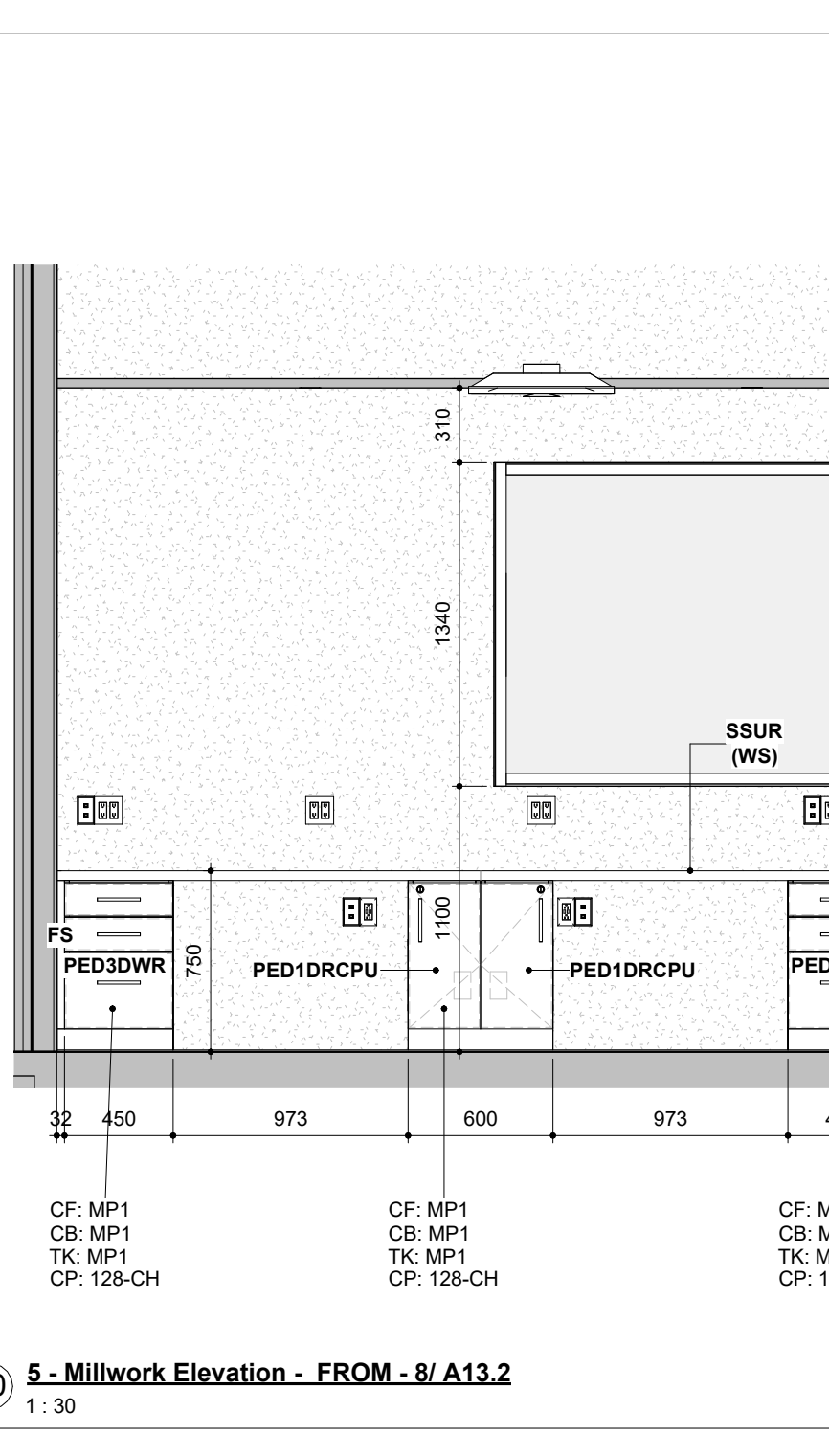
5 - Millwork Elevation - FROM - 8/ A13.2
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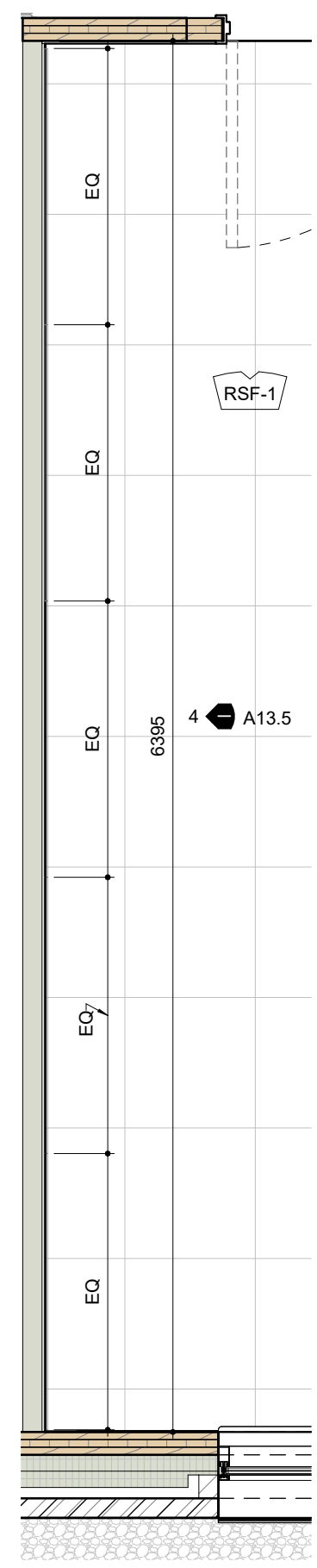
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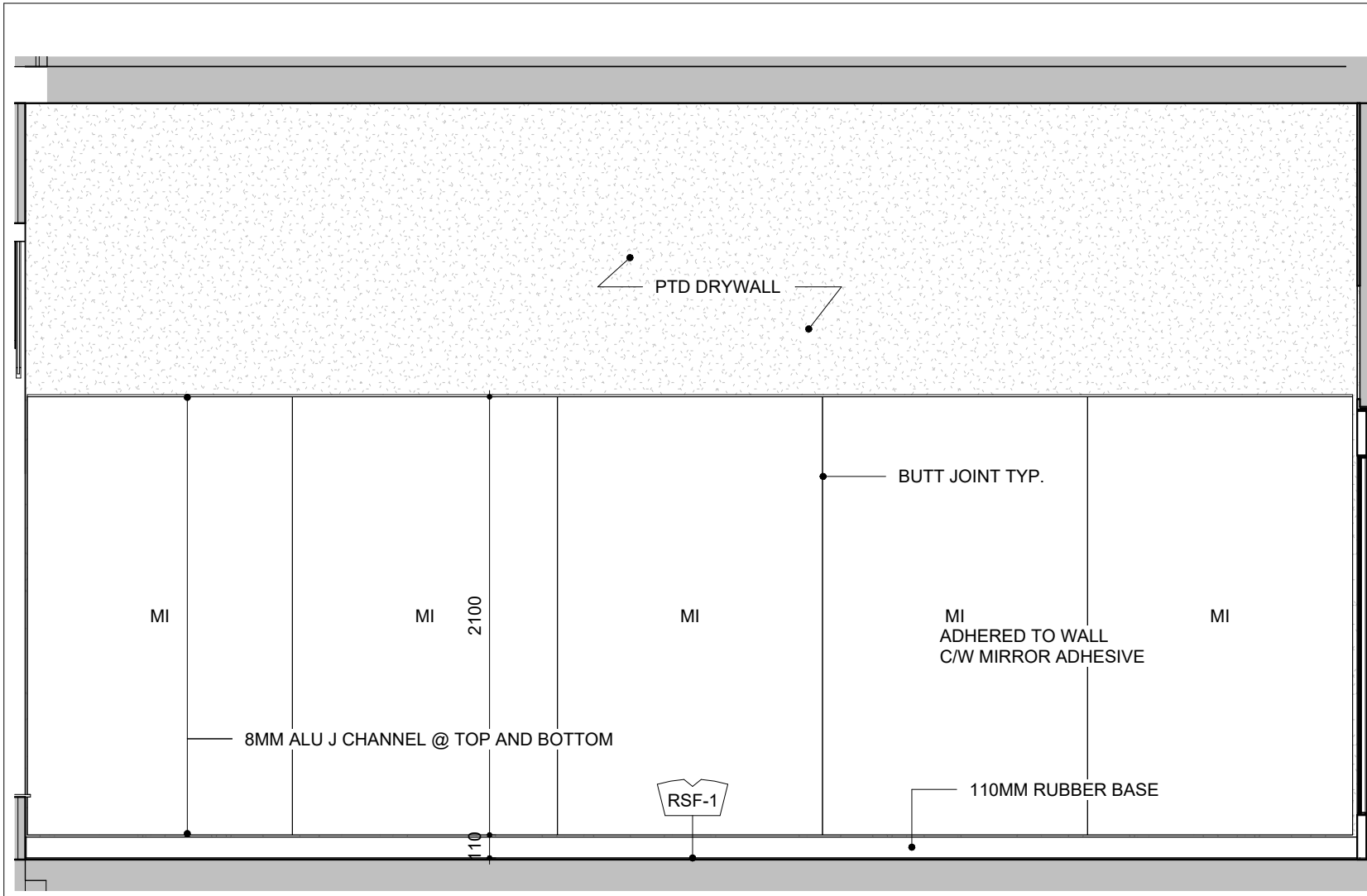
GROUND FLOOR - Callout 11
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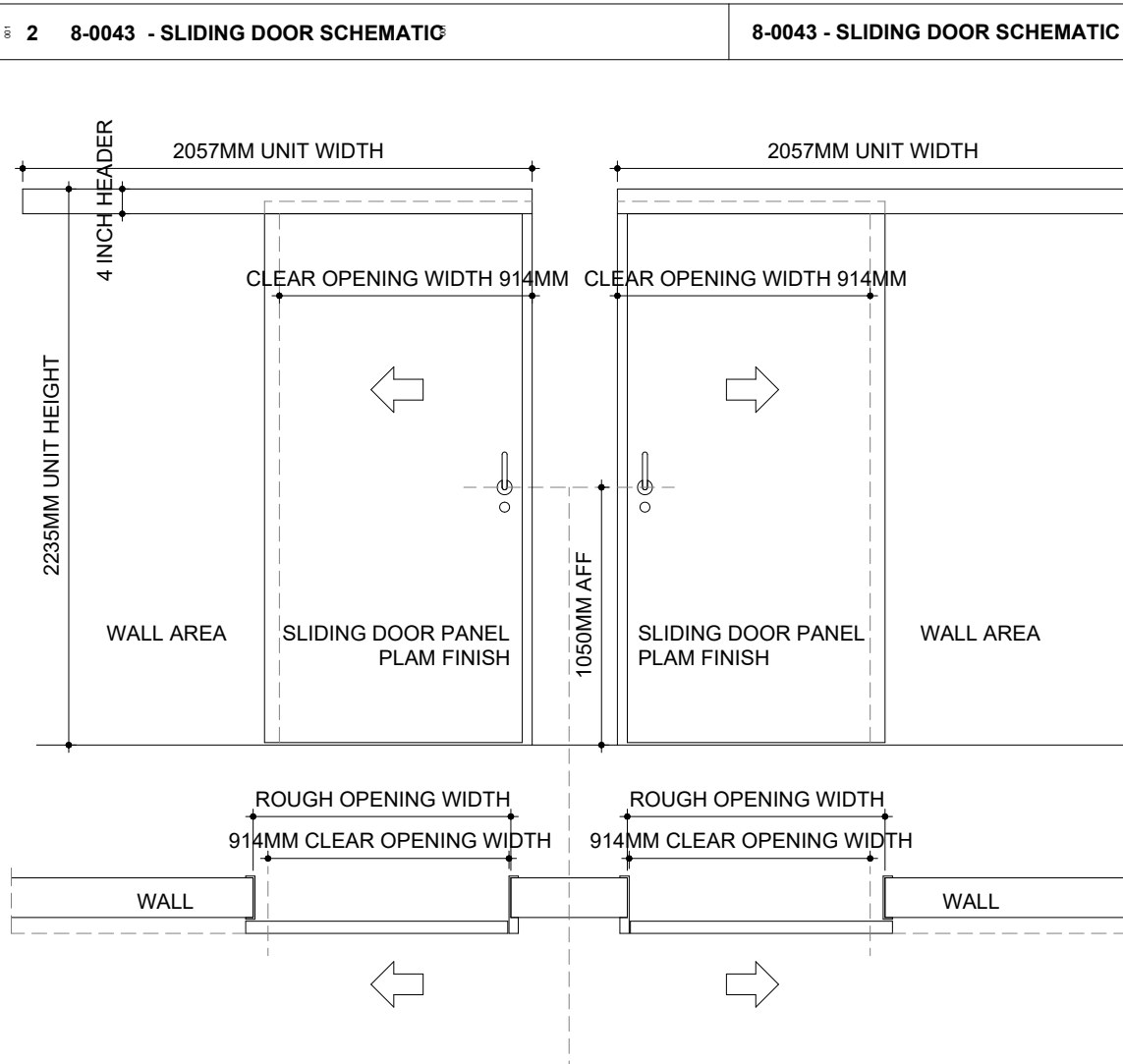
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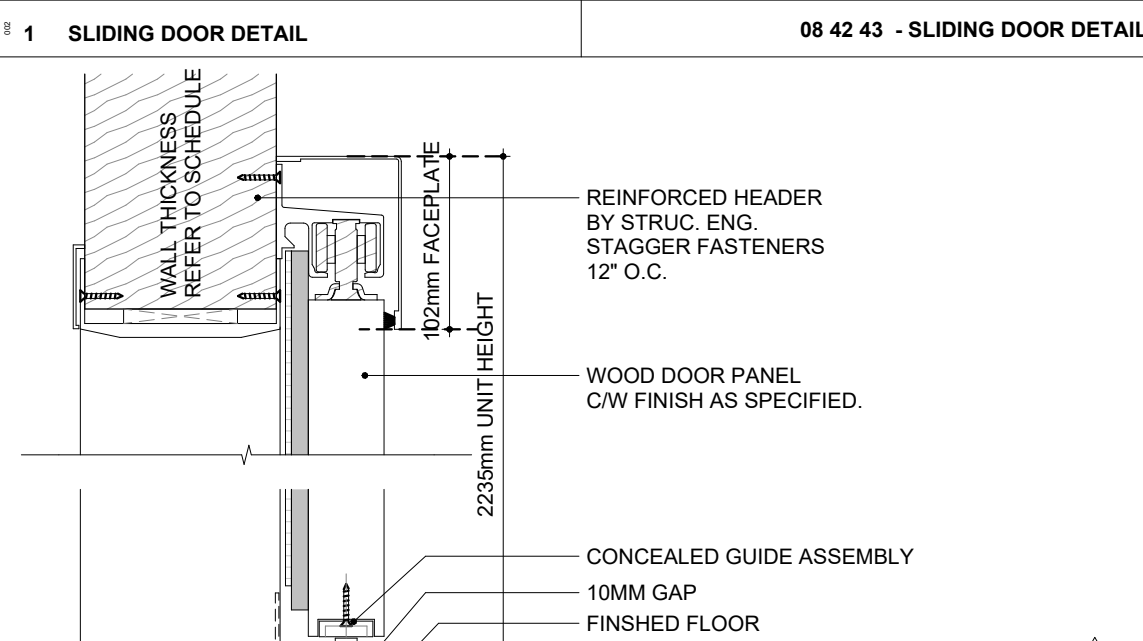
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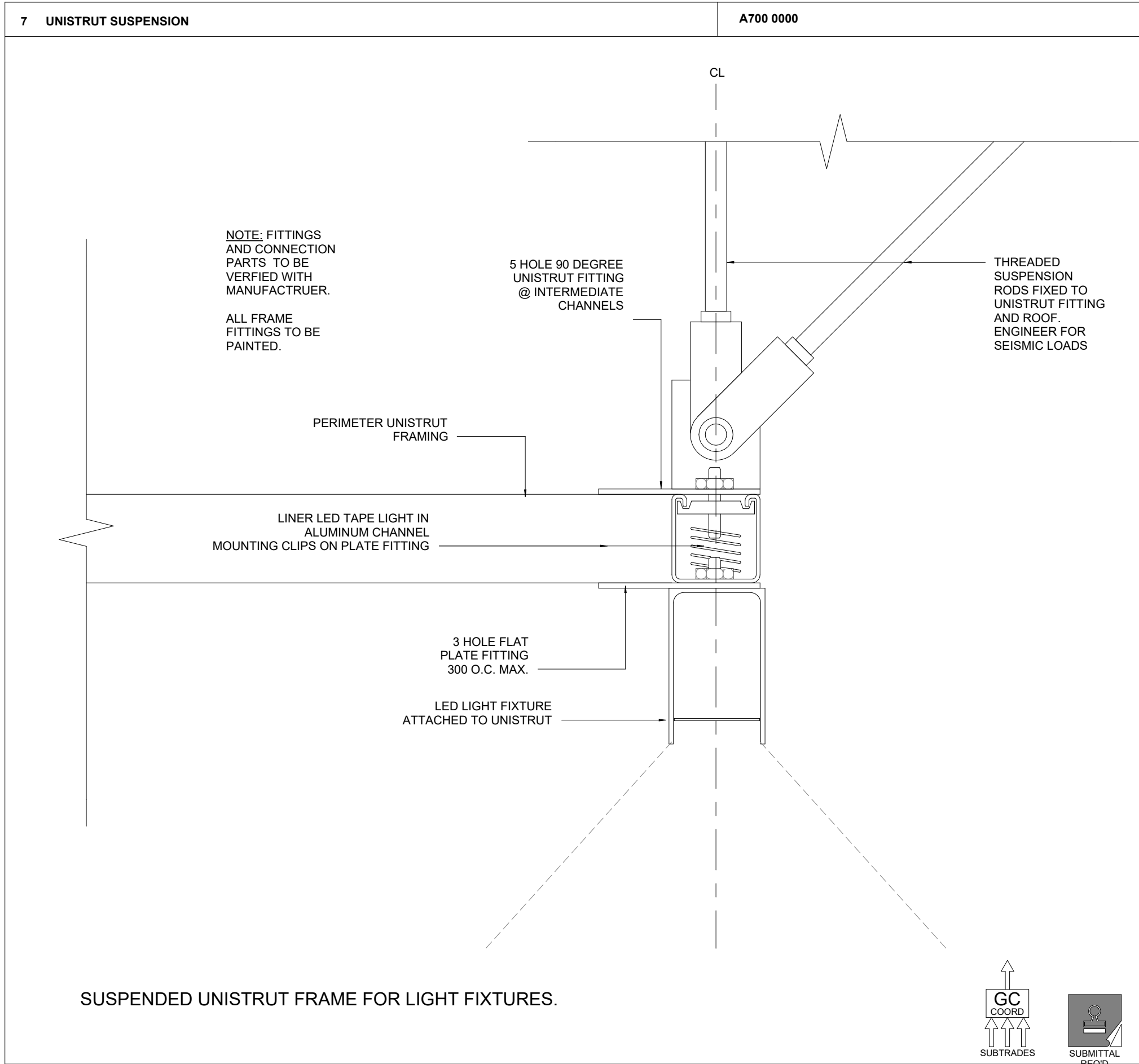
4 5 - Millwork Elevation - FROM - 3/ A13.5
1:30



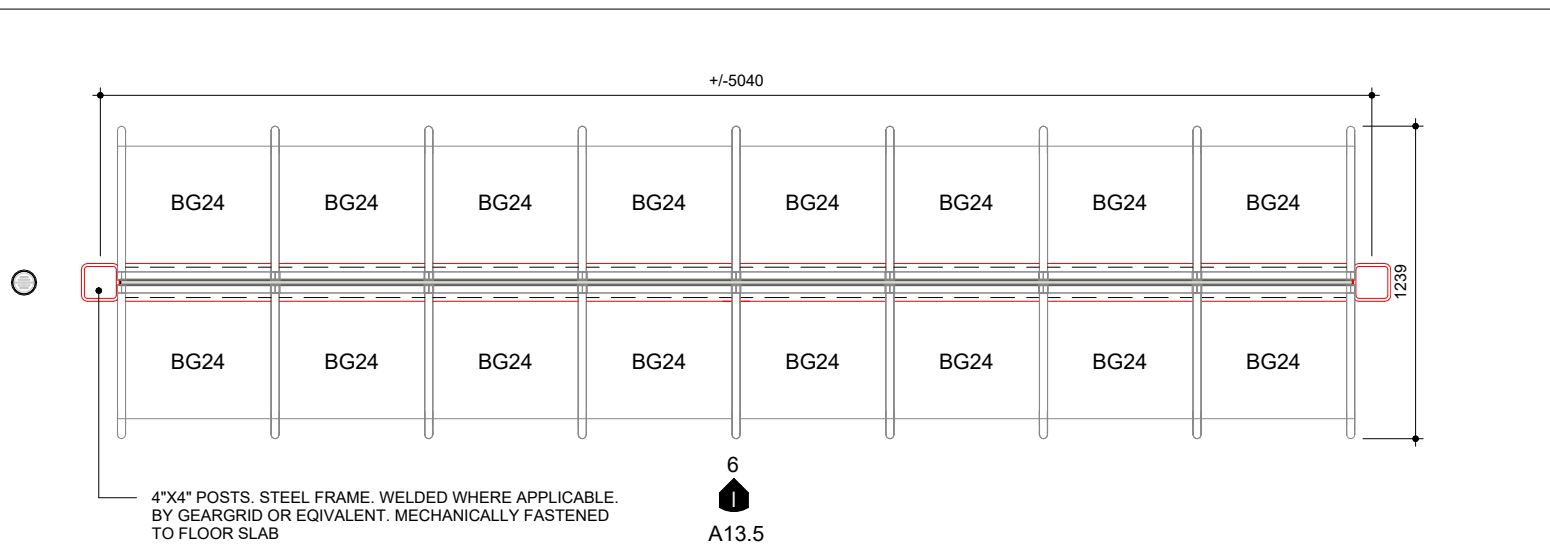
2 8-0043 - SLIDING DOOR SCHEMATIC
8-0043 - SLIDING DOOR SCHEMATIC
NOTES:
1. REFER TO MANUFACTURERS SPECIFICATIONS AND INSTALLATION GUIDE



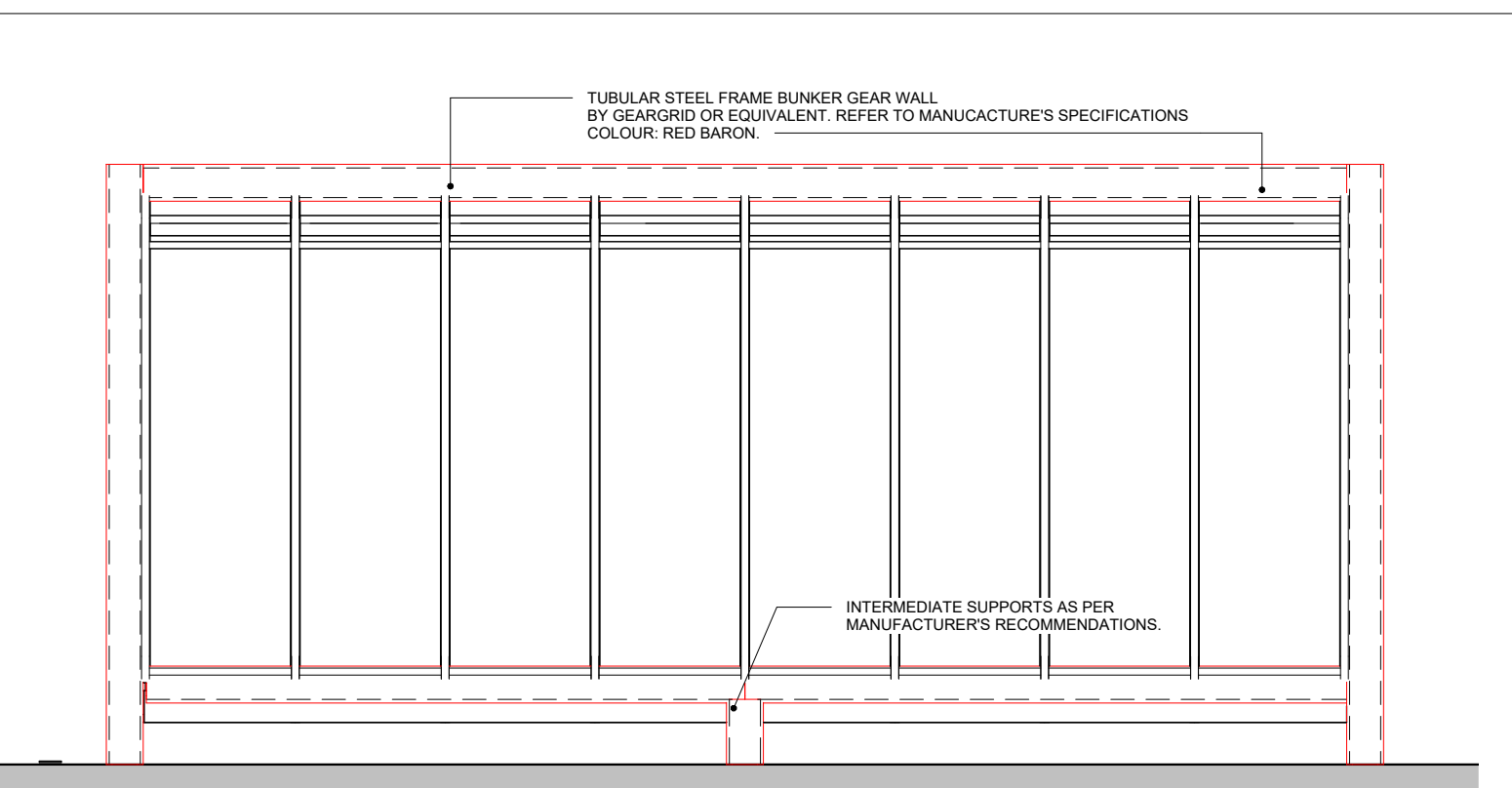
1 SLIDING DOOR DETAIL
08 42 43 - SLIDING DOOR DETAIL
NOTE:
1. FINISH SAMPLE SUBMITTAL REQUIRED PRIOR TO FABRICATION
2. ENSURE CLEAR OPENING WIDTH AS SPECIFIED BY MANUFACTURER.
3. ENSURE HEADER IS ADEQUATE AND VERIFIED BY STRUCTURAL ENGINEER.
4. REPORT ANY CONFLICTS TO CONSULTANT PRIOR TO INSTALLATION



7 UNISTRUT SUSPENSION
A700 0000



2 - Floor Plans - FROM - 5/ A3.3
1:30



6 - Interior Elevation - FROM - 5/ A13.5
1:30

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NO.	ISSUED FOR	DATE
24	ISSUED FOR CLASS A	2024-02-16
26	T24-253 - IFT	2024-04-15
30	IFC	2024-09-09



FILE NO. SP.22.V.0191

CITY OF VAUGHAN FIRE STATION 7-12

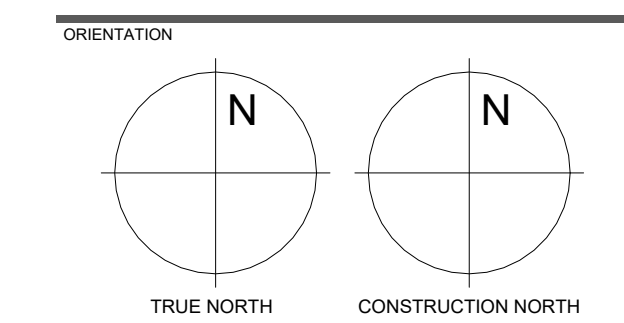
9511 WESTON ROAD, VAUGHAN



ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

Approval to Proceed
Project Phase
Authorization (signature)

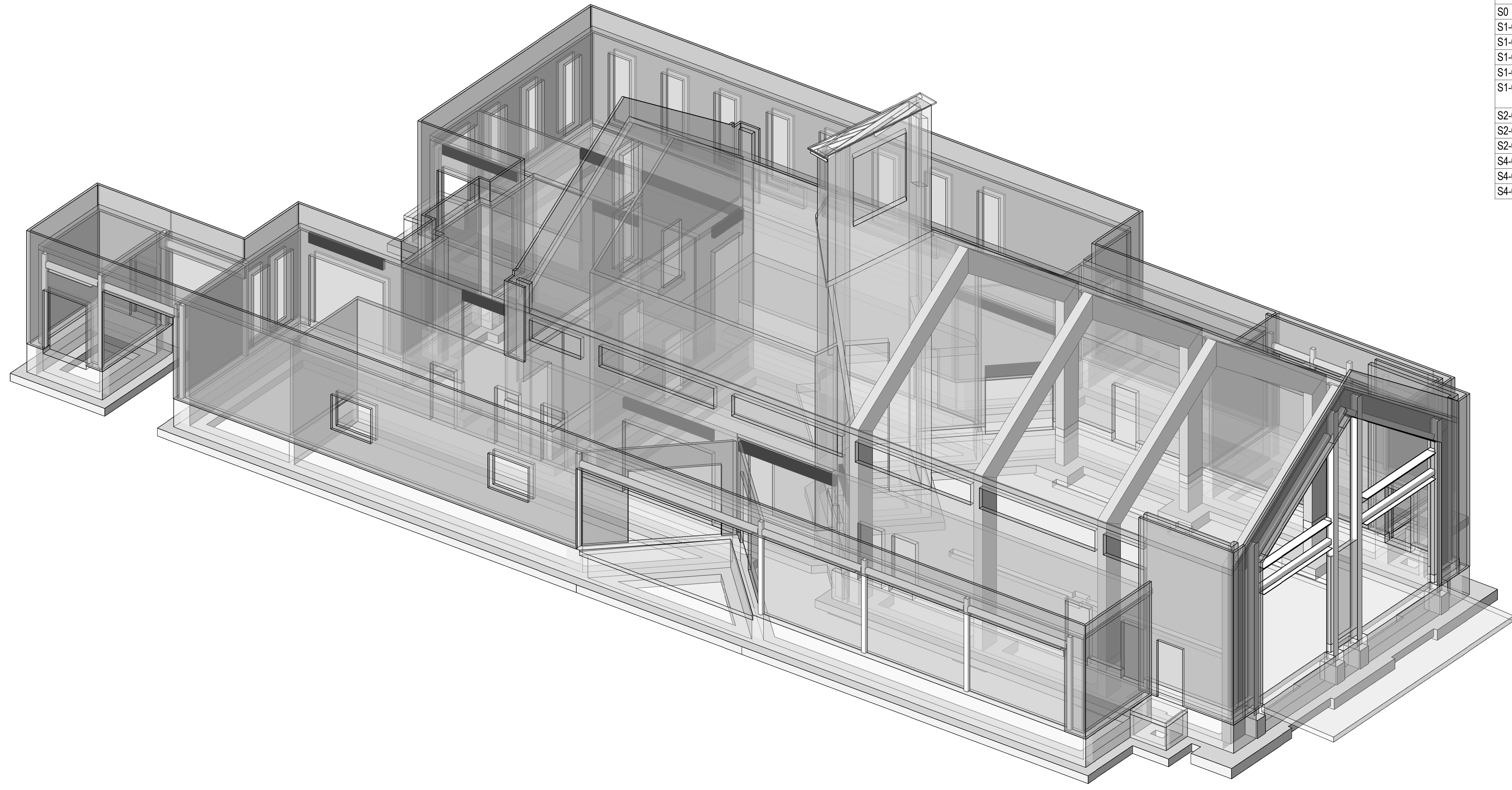
DWG TITLE
**MISCELLANEOUS
DETAILS**



DATE
2021-11-24
SCALE
As indicated
DRAWN BY
Author
PROJECT No.
2104
DRAWING No.
A13.5
REVISION
30

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DRAWING LIST	
Sheet Number	Sheet Name
S0	COVER SHEET
S1-01	PLAN NOTES SCHEDULES AND DETAILS
S1-02	FOUNDATION PLAN
S1-03	ROOF FRAMING PLAN
S1-04	HIGH ROOF FRAMING PLAN
S1-05	LOADING PLANS AND GLULAM MOMENT FRAME ELEVATION
S2-01	SHEAR WALL NOTES AND DETAILS
S2-02	CONCRETE WALL ELEVATIONS
S2-03	FOUNDATION SECTIONS
S4-01	GENERAL NOTES
S4-02	TYPICAL DETAILS
S4-03	TYPICAL NOTES



VAUGHAN

CITY OF VAUGHAN FIRE STATION 7-12

THIS COVER SHEET IS A DIAGRAMATIC 3D VIEW
AND DOES NOT FORM PART OF THE DOCUMENTS



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

CONCRETE MIX SCHEDULE

EXPOSURE	ELEMENT	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	EXPOSURE CLASSIFICATION	NOTES
GENERAL NON-EXPOSED CONCRETE (i.e. NOT EXPOSED TO CHLORIDES NOR FREEZE AND THAW)	FOOTINGS	25	N	
	COLUMNS	25	N	
	SHEAR WALLS	25	N	
	SLAB ON GRADE 2	25	N	
	LEAN MIX	5	N	
	FLOATING SLABS	25	N	
EXTERIOR EXPOSED CONCRETE EXCLUDING PARKING (i.e. EXPOSED TO FREEZE AND THAW BUT NOT CHLORIDES)	FOUNDATION/RETAINING WALLS	25	F-2	
	COLUMNS, PIERS	25	F-2	
	SHEAR WALLS	25	F-2	
	OTHER WALLS (NOT IDENTIFIED AS SHEAR WALLS)	25	F-2	
	SUSPENDED SLABS AND BEAMS	32	F-2	
	SLAB ON GRADE 2, SIDEWALKS	32	C-2	
GROUT	FROST SLABS	35	C-1	
	SLAB ON GRADE - APPARATUS BAYS	SUPERPLASTICIZED 32	N	NO AIR ENTRAINMENT
	APRON SLAB	35	C-1	
	MASONRY FILL/BOND BEAMS	15 (FINE GROUT)		CONFORM TO REQUIREMENTS OF CSA A179

1) STRENGTH SPECIFIED AT 28 DAYS U.N.O IN DRAWINGS AND SCHEDULES.
2) REINFORCED WITH SYNTHETIC FIBERS ADDED AT BATCHING PLANT - SEE SPECIFICATIONS

DESIGN CRITERIA NOTES

- GENERAL
 - THE PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 OBC (O. REG. 332/12 AS AMENDED) INCLUDING CLAUSES 4.1.6 (1), 4.1.6.4(3), 4.1.7 AND 4.1.8.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO IS SUPPLYING AND INSTALLING EQUIPMENT THAT ALL ELEMENTS OF STRUCTURES LISTED IN TABLE 4.1.8.18 OF THE OBC 2012 ARE DESIGNED IN ACCORDANCE WITH CLAUSE 4.1.8.18.
 - BUILDING IMPORTANCE CATEGORY (SNOW, WIND, AND EARTHQUAKE) IS POST DISASTER.
 - STIFF ELEMENTS NOT PART OF SFRS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.3 (6a). EXAMPLES INCLUDE, BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE. PROVIDE MINIMUM 25mm SEPARATION UNLESS NOTED OTHERWISE.
 - MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL:
 - PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
 - DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.
 - DESIGN ALL HANDRAILS TO MEET LOADS DESCRIBED IN OBC 3.4.6.4(10).
 - DESIGN ALL STAIRS TO SUPPORT A MINIMUM LIVE LOAD OF 4.8kPa.
 - ARCHITECTURAL PRECAST FABRICATOR SHALL:
 - PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
 - WHERE PRECAST IS USED AS A GUARD DESIGN THE PRECAST AND CONNECTIONS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.
- LATERAL LOADS ON STRUCTURE
 - WIND
 - $q(150) = 0.44kPa$
 - $C_e = (H/10)^{1/5}$ NOT LESS THAN 0.9.
 - $C_g = 2.0$
 - $C_p = AS PER FIGURE 4.1.7.6.A OF NBC 2015$
 - EARTHQUAKE
 - $S_{d1}(2) = 0.167$
 - $S_{d1}(5) = 0.096$
 - $S_{d1}(10) = 0.063$
 - $S_{d1}(20) = 0.0280$
 - PGA = 0.105
 - SITE CLASS = D
 - Rd = 2.0
 - Ro = 1.3
 - $I_e f_s S_{d1}(2) = 0.268$
 - MODERATELY DUCTILE MOMENT RESISTING FRAMES (GLULAM BASED)
 - CLT BASED SHEAR WALLS
 - METHOD OF ANALYSIS - DYNAMIC
- FOUNDATION WALLS
 - WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND HORIZONTAL EARTH PRESSURE
 - $P = K (W_1 + q)$
 - $K = 0.50$
 - $W_1 = 22kN/m^3$
 - $q = 12kPa$
 - $h =$ DEPTH IN METRES
 - THE WALLS HAVE BEEN DESIGNED ASSUMING FREE DRAINING BACKFILL OR THE USE OF A DRAINAGE CORE TO PREVENT THE BUILD-UP OF HYDROSTATIC PRESSURE.

FOUNDATION PLAN NOTES

- TOP OF SLAB - ON - GRADE TO BE 0.0 BELOW FINISHED FLOOR DATUM ELEVATION 225.70m EXCEPT AS NOTED. TOS = TOP OF SLAB.
- FOOTINGS SHALL BEAR ON NATIVE SILTY SAND/SANDY SILT CAPABLE OF SUSTAINING A MINIMUM OF 375 kPa (i.e. 2500 Pa (kPa)).
- REFER TO THE SOIL REPORT No. 20210932 DATED MARCH 30, 2022 PREPARED BY @NGLO.BA.
- SOIL AT THE UNDERSIDE OF THE FOOTINGS IS TO BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF A SOILS CONSULTANT BEFORE PLACING CONCRETE.
- REFER ALSO TO SITE PREPARATION NOTES ON THIS DRAWING.
- COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO PROCEEDING WITH ANY WORK.
- UNDERSIDE OF WALL FOOTINGS TO BE AT ELEVATIONS AS NOTED ON PLAN.
- SDF = STEP DOWN FOOTING.
- UNLESS OTHERWISE SHOWN, ALL WALL FOOTINGS TO BE 300mm DEEP WITH 400mm PROJECTIONS EACH SIDE.
- FILL REQUIRED ON BOTH SIDES OF FOUNDATION WALLS SHALL BE PLACED AND COMPACTED SIMULTANEOUSLY ON EACH SIDE TO EQUALIZE SOIL PRESSURE.
- PROVIDE SLAB DEPRESSIONS AND SLOPES, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, AS REQUIRED BY THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
- THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE INCLUDING STRIP FOOTINGS.
- GENERAL SLAB - ON - GRADE IS 100mm THICK REINFORCED WITH SYNTHETIC FIBRES (REFER TO CONCRETE SPECIFICATION) EXCEPT AS NOTED.
- CONCRETE STRENGTHS - SEE CONCRETE SCHEDULE.
- SEE TYPICAL NOTES, TYPICAL DETAILS, AND ALL OTHER DRAWINGS.

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

- THE AREA WITHIN THE BUILDING SHALL BE STRIPPED OF THE UPPER LAYER SOIL, FILL, ORGANICALLY CONTAMINATED MATERIAL AND RUBBLE AND TO A MINIMUM OF 100mm (4") BELOW THE UNDERSIDE OF THE SLAB ON GRADE.
- THE EXPOSED SUB-GRADE SHALL BE EXAMINED AND APPROVED BY THE SOIL CONSULTANT.
- THE ENTIRE AREA SHALL BE PROOF ROLLED WITH A HEAVY COMPACTOR TO A MINIMUM OF 98% STANDARD PROCTOR MAX. DRY DENSITY AND TO THE APPROVAL OF THE SOIL CONSULTANT.
- ANY LOOSE OR SOFT SPOTS ENCOUNTERED SHALL BE SUB-EXCAVATED AND BACKFILLED WITH COMPACTED APPROVED MATERIAL.
- FILL REQUIRED TO RAISE THE GRADES SHALL BE COMPRISED OF APPROVED GRANULAR TYPE 1 CONFORMING TO O.P.S.S. 1010, PLACED IN SUCCESSIVE LAYERS 150mm (6") LAYERS EACH COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.
- THE LAYER IMMEDIATELY BELOW THE SLAB-ON-GRADE SHALL BE 200mm (8") OF 19mm CLEAR CRUSHED STONE COMPACTED TO MIN. 98% STANDARD PROCTOR MAX. DRY DENSITY.
- ALL PROCEDURES, EQUIPMENT AND MATERIALS SHALL BE APPROVED BY THE SOIL CONSULTANT WHO SHALL CONDUCT SUFFICIENT TESTS TO ENSURE THAT THE SPECIFIED MATERIALS AND DENSITIES ARE ACHIEVED.
- THE CONTRACTOR SHALL CO-ORDINATE WITH THE SOIL CONSULTANT AND ARRANGE A SUITABLE PROGRAM FOR SAMPLING AND INSPECTIONS, ETC. AND NOTIFY THE ARCHITECT ACCORDINGLY.
- EXISTING ON-SITE MATERIAL SHALL NOT BE USED WITHIN THE BUILDING AREA FOR BACKFILLING IN TRENCHES AGAINST FOUNDATION WALLS OR UNDER SLABS-ON-GRADE.
- REFER TO THE SPECIFICATION AND THE SOIL REPORT FOR PREPARATION OF AREAS OUTSIDE THE BUILDING ENVELOPE.

WOOD COLUMN SCHEDULE					
MARK	SIZE (WxD)	MATERIAL	GRADE	REMARKS	FACTORED LOAD (kN)
OMITTED (C1)	SUPPLIER BASED ON PERFORMANCE SPECIFICATION AND LOADING DEFINED HEREIN				
C2		SPF	20F-Ex		200

NOTE: CONCRETE S TO MATCH WOOD COLUMN SIZES

ROOF LOADING SCHEDULE		
LOADING	SUPERIMPOSED DEAD LOAD (kPa)	SNOW LOAD (kPa)
GENERAL ROOF	** 2.31	1.47 +ASL
MECHANICAL ROOF	** 2.81	1.47 +ASL

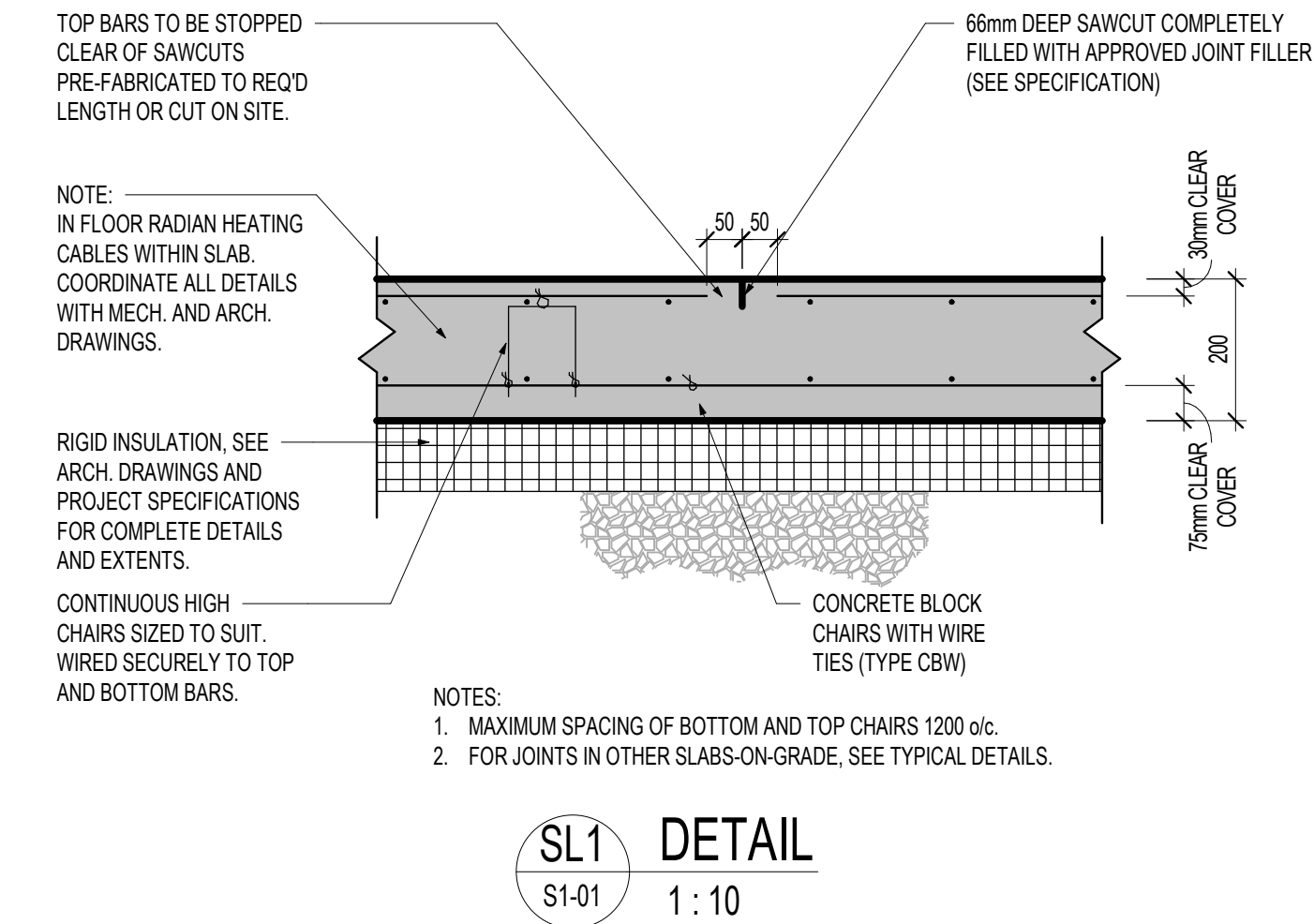
IN ADDITION TO UNIFORM LOADING SHOWN, REFER TO ROOF PLAN FOR ADDITIONAL LOADING FOR ACCUMULATED SNOW LOADS (ASL) AS SHOWN, AND FOR POINT LOADS OF BRACING AND MECHANICAL EQUIPMENT.

IN ADDITION TO UNIFORM LOADING SHOWN, DESIGN GLULAM / CLT FOR ANY CONCENTRATED LOADS RESULTING FROM MECHANICAL PIPING OR AS A MINIMUM, DESIGN FOR POINT LOAD OF 2kN AT ANY LOCATION.

** PV PANEL LOADS CONSIDERED FOR BALLASTED LOW ANGLE PANELS THAT WILL NOT RESULT IN ANY ADDITIONAL SNOW LOADS.

PV PANEL LOADING CONSIDERED TO BE 1.20 kPa

NOTE: ROOFING SINGLE PLY = 0.72 kPa HAS BEEN INCLUDED IN THE ABOVE TABLE



SL1 DETAIL
1:10

MECHANICAL ROOM LOADING SCHEDULE		
LOADING	SUPERIMPOSED DEAD LOAD (kPa)	LIVE LOAD (kPa)
MECH. FLOOR	3.6	6.0

WALL AND DECK (FLOOR / ROOF) PANEL SCHEDULE		
MARK	SIZE (THICKNESS)	MATERIAL
CLT1	105	CLT STRESS GRADE 1/2" WITH SPF No.2 MIN. FACE LAYERS
CLT2	175	CLT STRESS GRADE 1/2" WITH SPF No.2 MIN. FACE LAYERS
CLT3	315	CLT STRESS GRADE 1/2" WITH SPF No.2 MIN. FACE LAYERS

ROOF LINTEL SCHEDULE			
REFER TO LINTEL NOTES A07 ON TYPICAL DETAIL DRAWINGS SEE ALSO SPECIFICATION			
MARK	MATERIAL	TYPE	REMARKS
RL1	HSS 203x152x6.4 + 8mm BOTTOM PLATE	[Symbol]	PLATE LENGTH TO SUIT
RL2	HSS 203x203x8.0 + 8mm BOTTOM PLATE	[Symbol]	PLATE LENGTH TO SUIT
RL2	HSS 203x203x8.0 + 8mm TOP PLATE	[Symbol]	PLATE LENGTH TO SUIT

T1 = 10kN M TORSION CONNECTION
ALL EXTERIOR LINTELS SUPPORTING FACE BRICK TO BE GALVANIZED
** WELDED TO HSS EACH END.

BEAM SCHEDULE				
MARK	SIZE (WxD)	MATERIAL	GRADE	FACTORED SHEAR (kN)
B1	SUPPLIER BASED ON PERFORMANCE SPECIFICATION AND LOADING DEFINED HEREIN	SPF	20F	75
B2		SPF	20F	75

STEEL COLUMN AND POST LEGEND:	
ST1	-W310x79 COLUMN -550x40x550 BASE PLATE C/W (4)-AR2 ANCHOR RODS
P1	-HSS 152x152x6.4 POST @5000 o/c MAX. UN -350x25x175 BASE PLATE C/W (2)-AR1 ANCHOR RODS

APPROVAL STAMP

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PROJECT: CITY OF VAUGHAN
 CLIENT: FIRE STATION 7-12
 9511 WESTON ROAD, VAUGHAN

VAUGHAN

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PROFESSIONAL SEAL

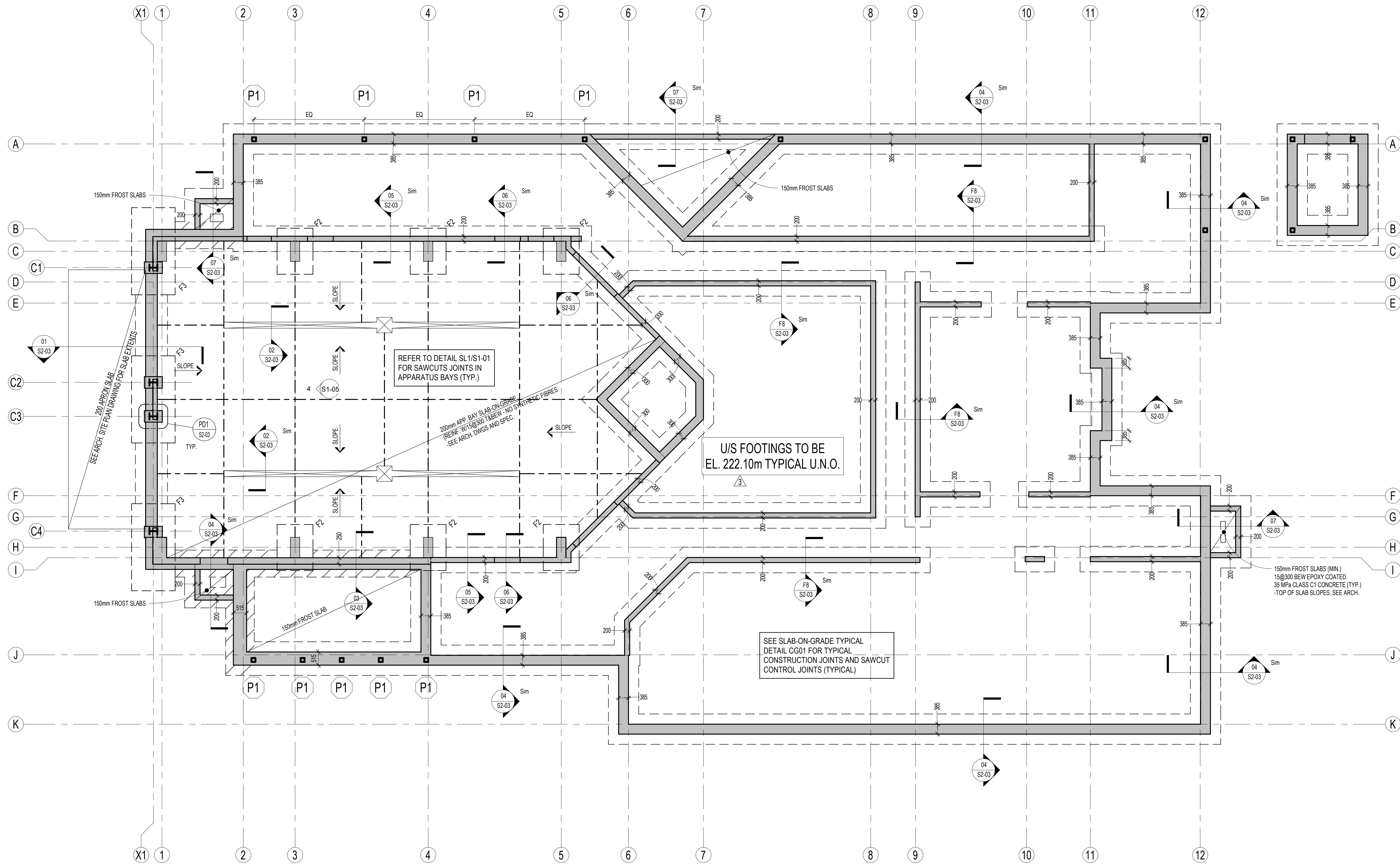
24-09-09
M.R. MARTILLA
100164027
PRINCIPLE OF ENGINEERING

DWG TITLE
PLAN NOTES
SCEDULES AND
DETAILS

ORIENTATION

DATE	SEPT. 2024	
SCALE	As indicated	CHECKED BY MM
DWG STATUS	IFC	
PROJECT No.	20210932	
DRAWING No.	S1-01	REVISION 4

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REFER TO DETAIL SL1/S1-01 FOR SAWCUTS JOINTS IN APPARATUS BAYS (TYP.)

200mm APP. BAY SLAB ON GRADE (REINF. W/ F8@300 TYP. - NO SYNTHETIC FIBRES - SEE ARCH. DWGS AND SPEC.)

U/S FOOTINGS TO BE EL. 222.10m TYPICAL U.N.O.

SEE SLAB-ON-GRADE TYPICAL DETAIL CG01 FOR TYPICAL CONSTRUCTION JOINTS AND SAWCUT CONTROL JOINTS (TYPICAL)

150mm FROST SLABS (MIN.)
15@300 BEW EPOXY COATED.
35 MPa CLASS C1 CONCRETE (TYP.)
-TOP OF SLAB SLOPES, SEE ARCH.

FOUNDATION PLAN
1 : 75

1. SEE DRAWING S1-01 FOR PLAN NOTES AND SCHEDULES.

FOOTING PROJECTION SCHEDULE	
WALL FOOTINGS SHOWN THUS ON PLAN INDICATES 300mm FOOTING PROJECTIONS:	

FOOTING SCHEDULE				
FOOTING NUMBER	FOOTING LENGTH	FOOTING WIDTH	FOOTING THICKNESS	FOOTING REINF. B.E.W./H.E.E. U.N.O.
F2	1800	1400	400	6-20M
F3	3400	1700	400	20M@250

LOWER ELEVATIONS AT UNDERSIDE OF COLUMN AND WALL FOOTINGS, WHERE REQUIRED, BUT NOT LIMITED TO SUIT STORM / SANITARY, WATER / FIRE LINES AND ELECTRICAL DUCT BANKS.
THE MAXIMUM SLOPE FROM THE PIPE EXCAVATION TO THE UNDERSIDE OF ADJACENT FOOTING ELEVATIONS SHALL NOT EXCEED 7 VERTICAL TO 10 HORIZONTAL.

WHERE MECHANICAL SERVICE PIPES PASS THROUGH LOAD BEARING FOUNDATION WALLS, PROVIDE STEEL SLEEVES (MIN. 500) LARGER THAN PIPE (TYPICAL)

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4	ISSUED FOR CONSTRUCTION	SEPT/09/09

CITY OF VAUGHAN
FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

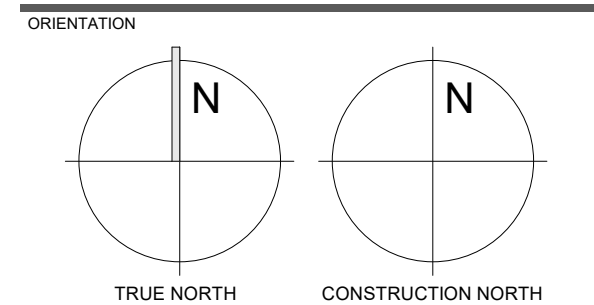


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FOUNDATION PLAN



DATE: **SEPT. 2024**

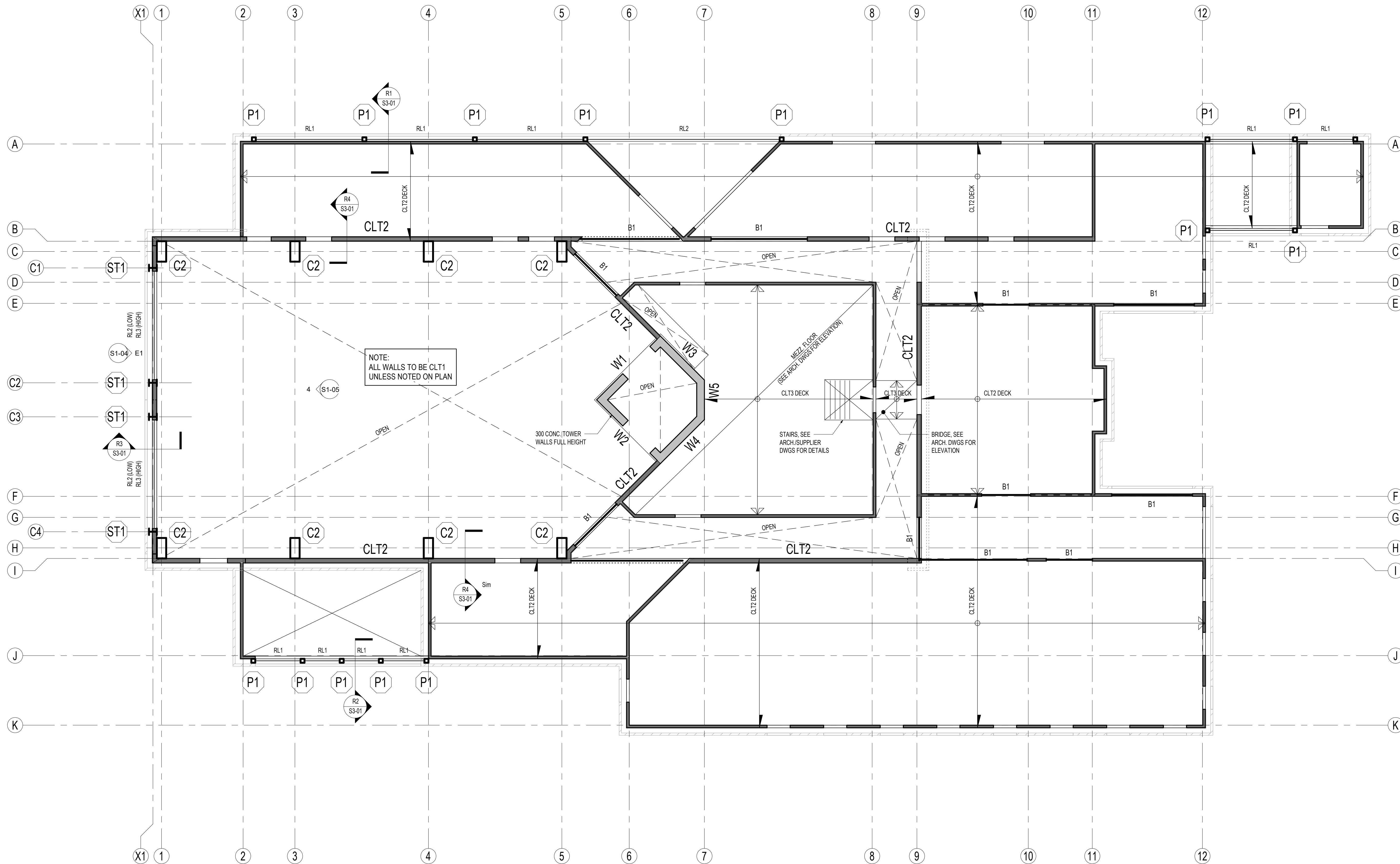
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DWG STATUS: **IFC**

PROJECT NO: **20210932**

DRAWING NO: **S1-02** REVISION: **4**

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ROOF FRAMING PLAN
 1:75
 1. SEE DRAWING S1-01 FOR PLAN NOTES AND SCHEDULES.

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CITY OF VAUGHAN
FIRE STATION 7-12
 9511 WESTON ROAD, VAUGHAN

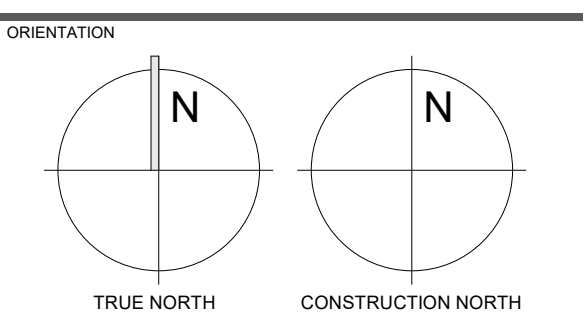


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DWG TITLE
ROOF FRAMING PLAN



DATE: **SEPT. 2024**

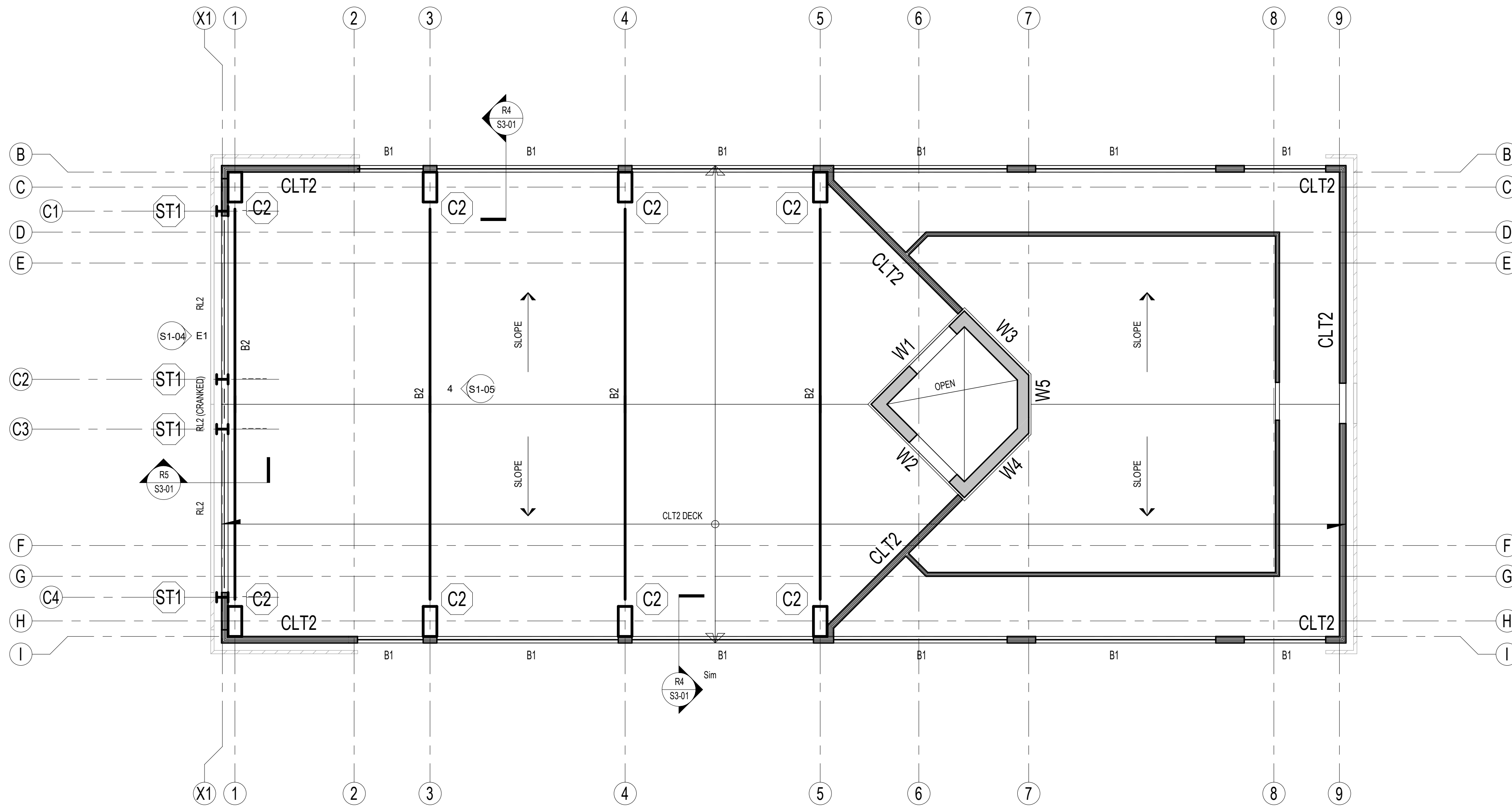
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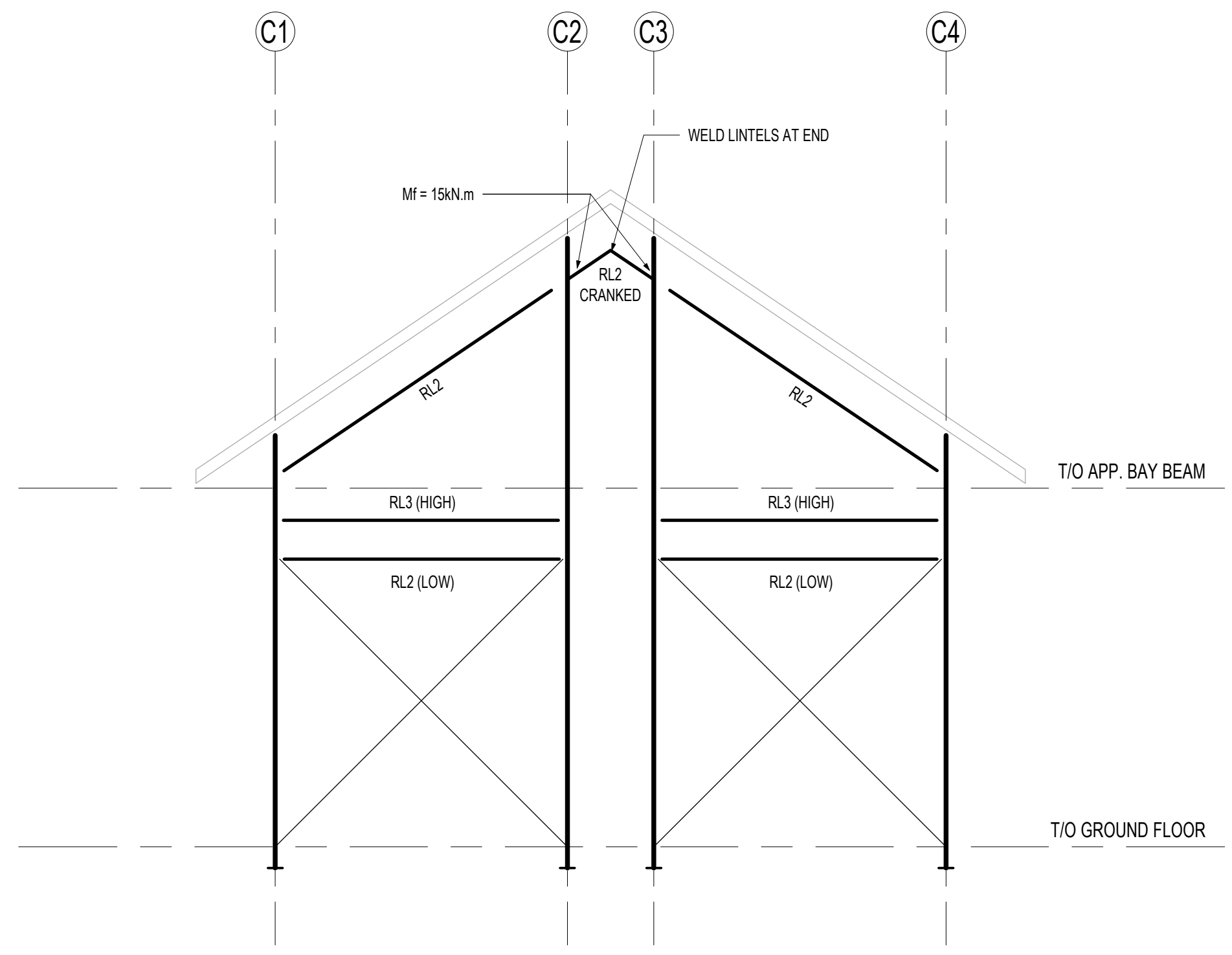
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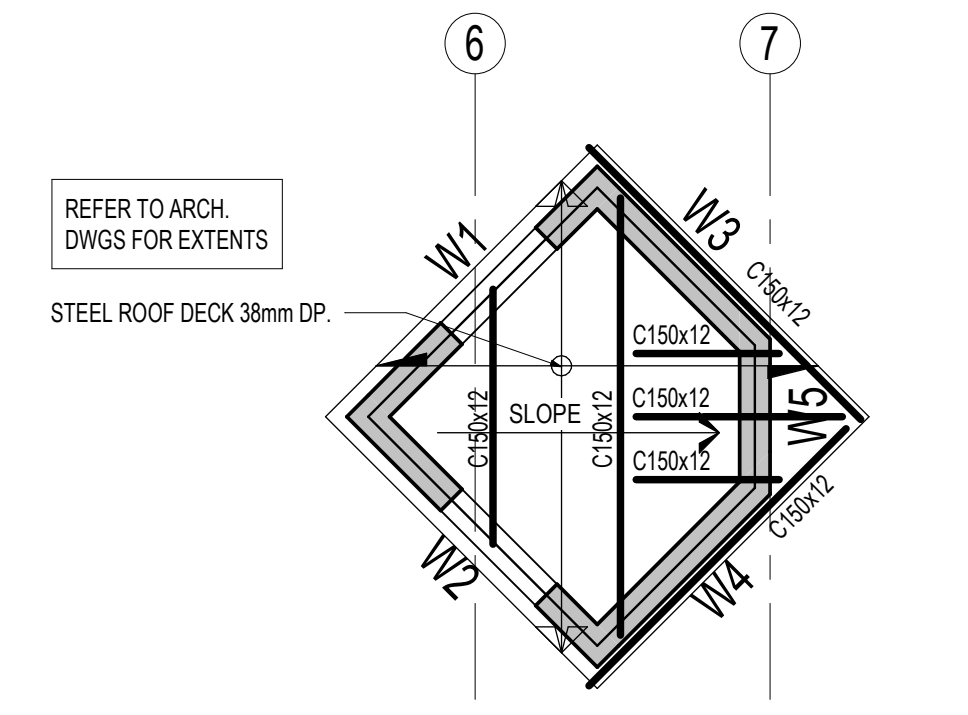
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HIGH ROOF FRAMING PLAN
1:75



E1 FRAMING ELEVATION
S1-04 1:75



HOSE TOWER ROOF FRAMING PLAN
1:75

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PROJECT:
**CITY OF VAUGHAN
FIRE STATION 7-12**

9511 WESTON ROAD, VAUGHAN



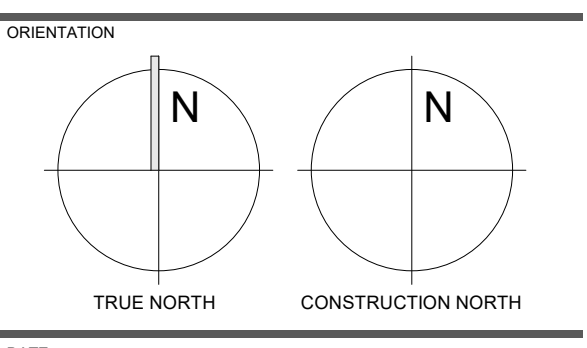
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DWG TITLE
**HIGH ROOF
FRAMING PLAN**



DATE: **SEPT. 2024**

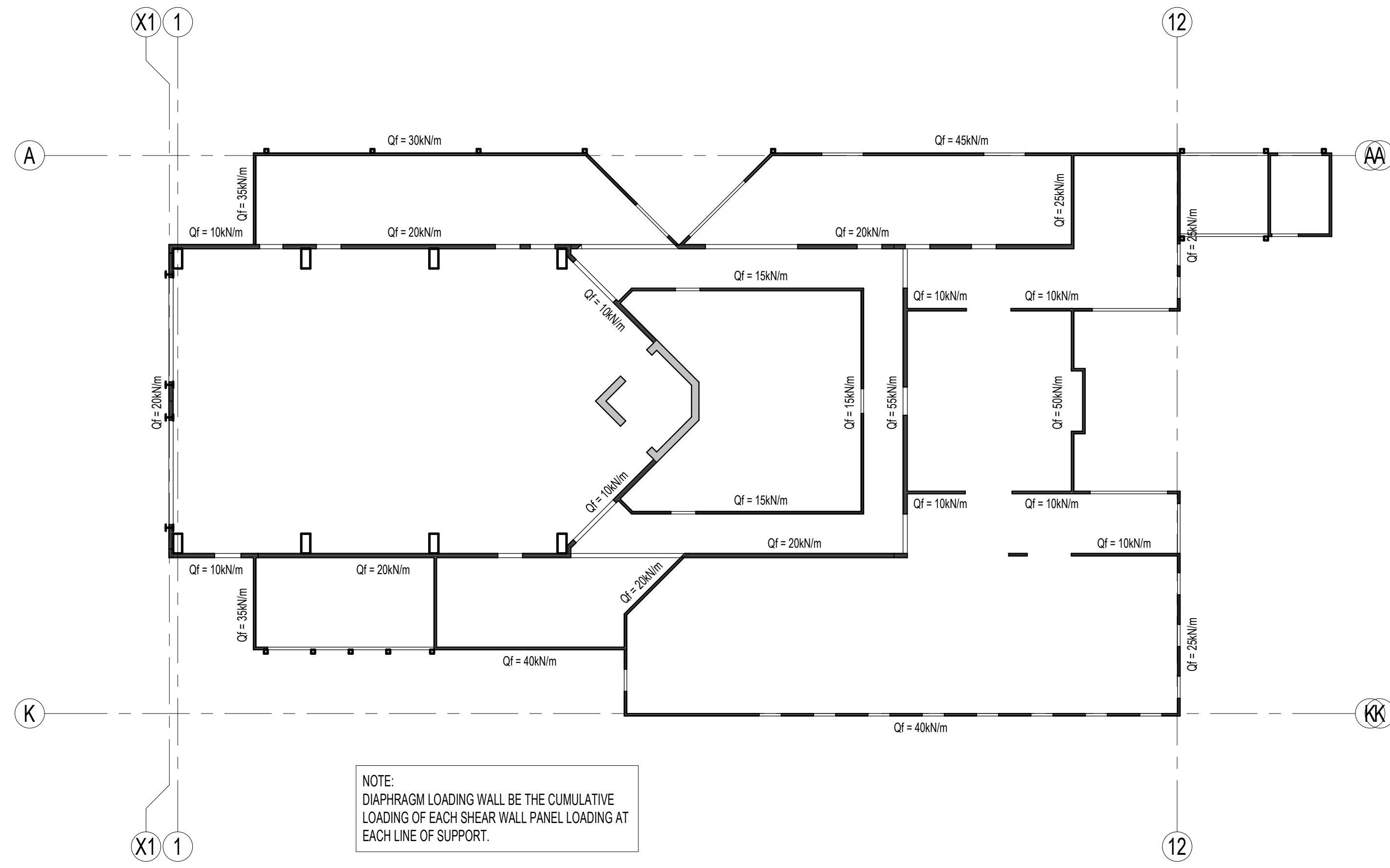
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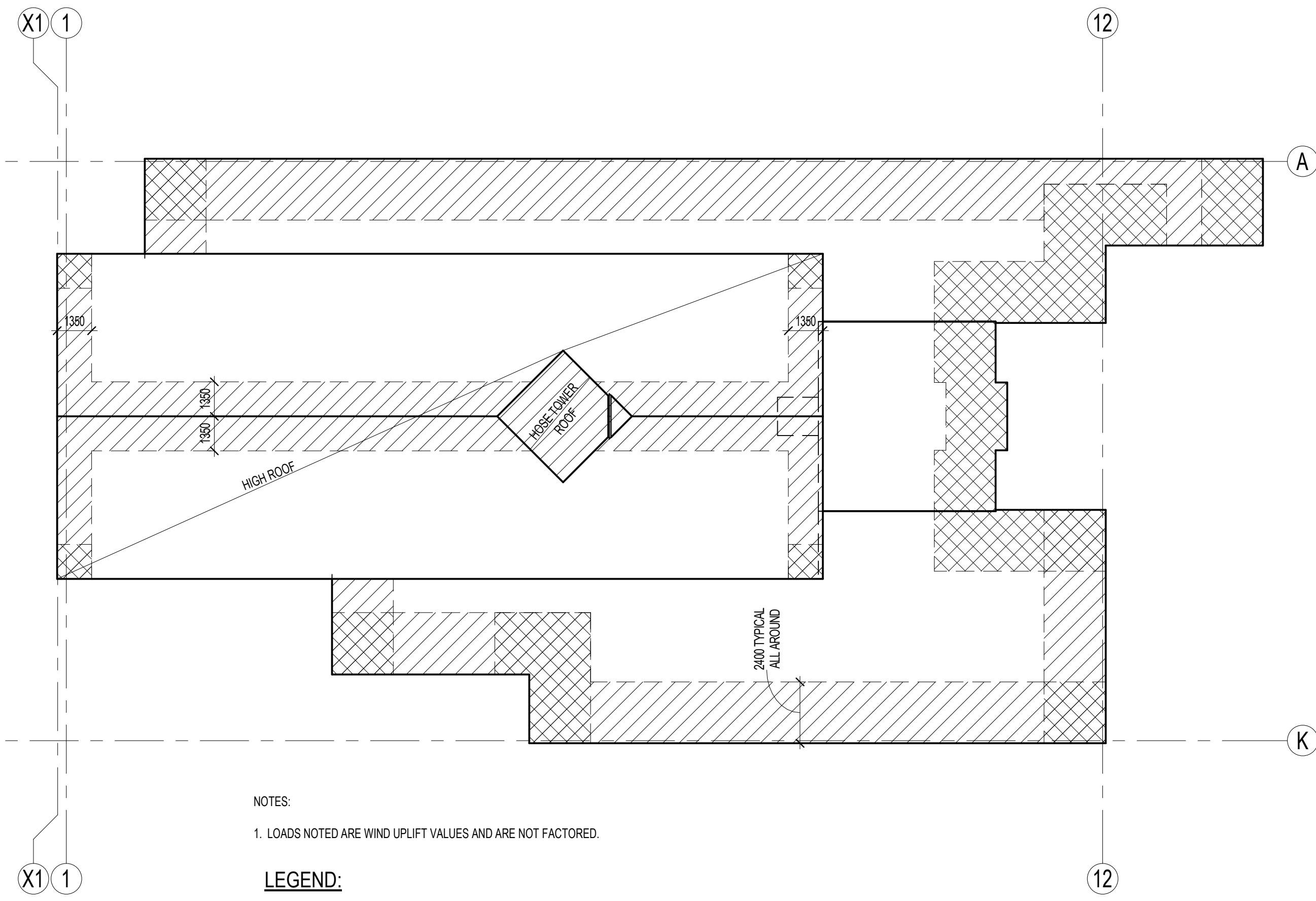
PROJECT No.: **20210932**

DRAWING No.: **S1-04** REVISION: **4**

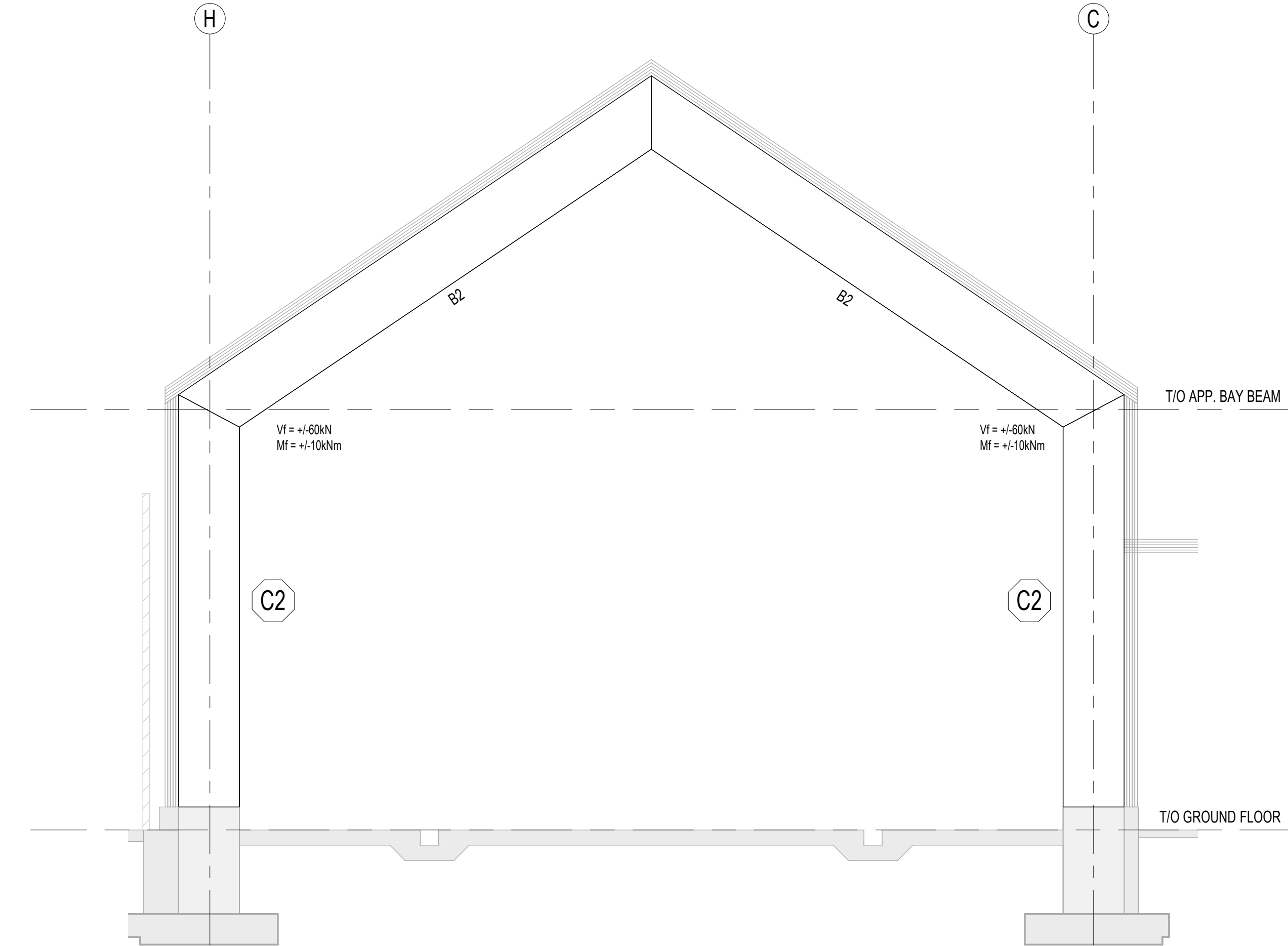
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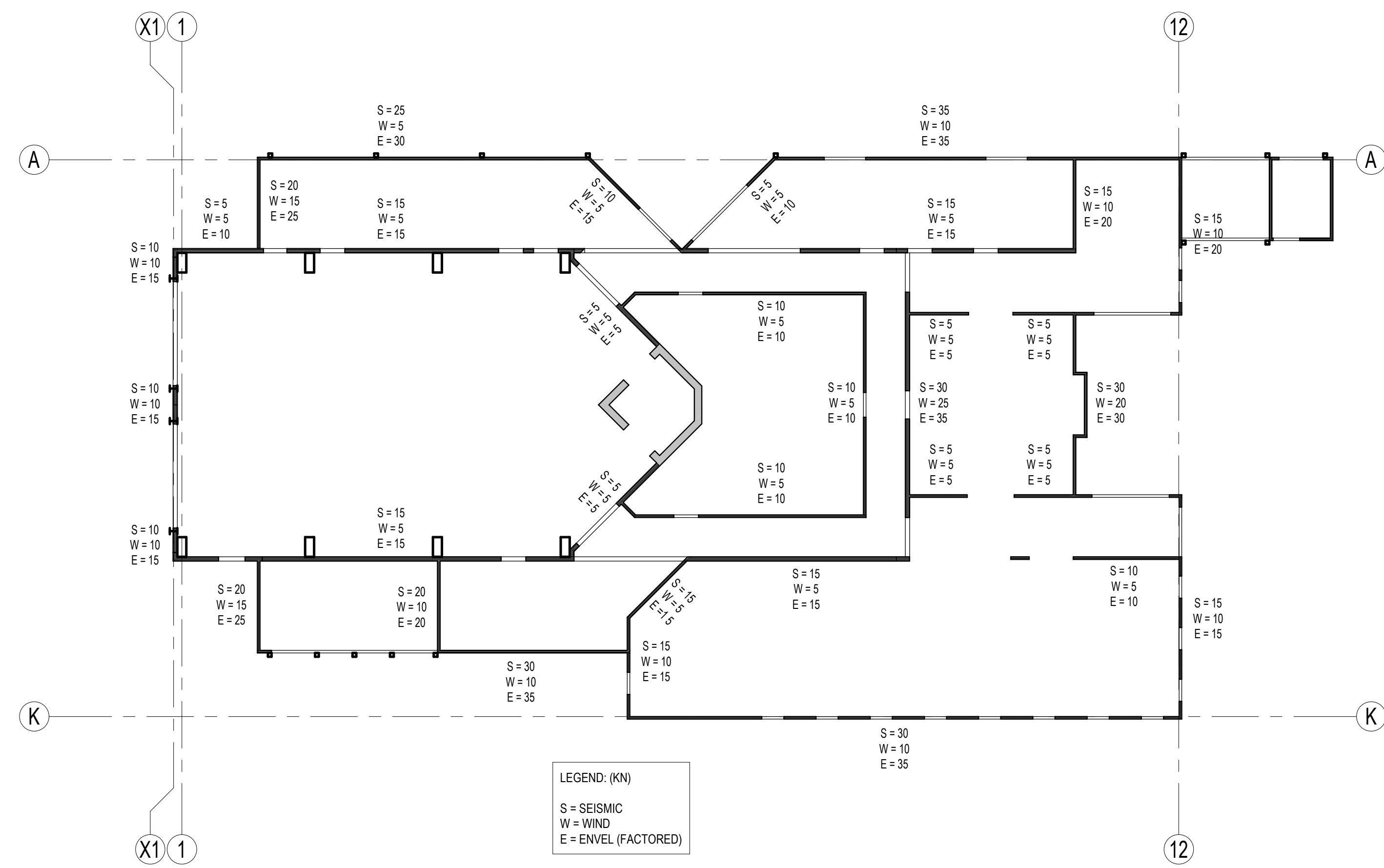
ROOF DIAPHRAGM LOADING PLAN
1:150



WIND UPLIFT DIAGRAM PLAN
1:150



APPARATUS BAY GLULAM MOMENT FRAME
4 FRAMING ELEVATION
S1-05 1:50



CLT SHEAR WALL LOADING PLAN
1:150

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4	ISSUED FOR CONSTRUCTION	SEPT/09/24

PROJECT:
**CITY OF VAUGHAN
FIRE STATION 7-12**

CLIENT:
VAUGHAN

CONTRACTOR:
Salas O'Brien

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Toronto, ON M2J 2R6
Stephenson Engineering, a company of Salas O'Brien

PROFESSIONAL SEAL:
LICENSED PROFESSIONAL ENGINEER
M.R. MARTILLA
100164027
PROVINCE OF ONTARIO

DWG TITLE:
**LOADING PLANS
AND GLULAM
MOMENT FRAME
ELEVATION**

ORIENTATION:
TRUE NORTH CONSTRUCTION NORTH

DATE:
SEPT. 2024

SCALE:
As indicated

DRAWN BY:
MM

CHECKED BY:
MM

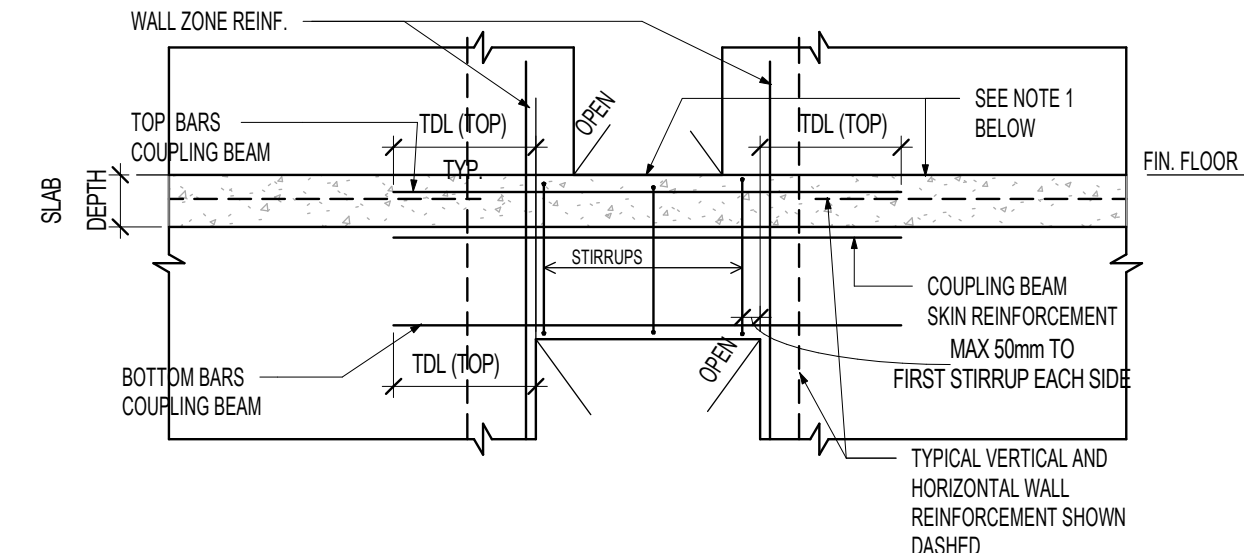
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PROJECT NO.:
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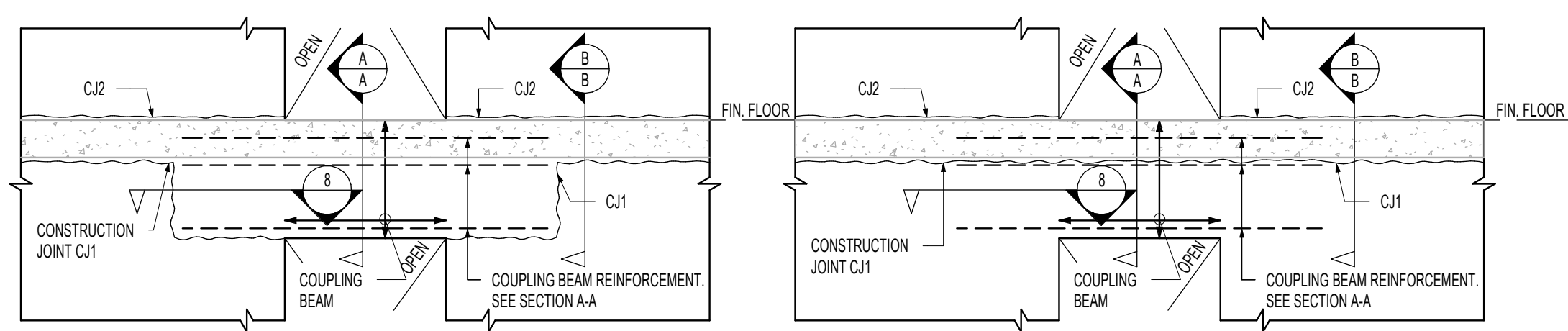
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S1-05

REVISION:
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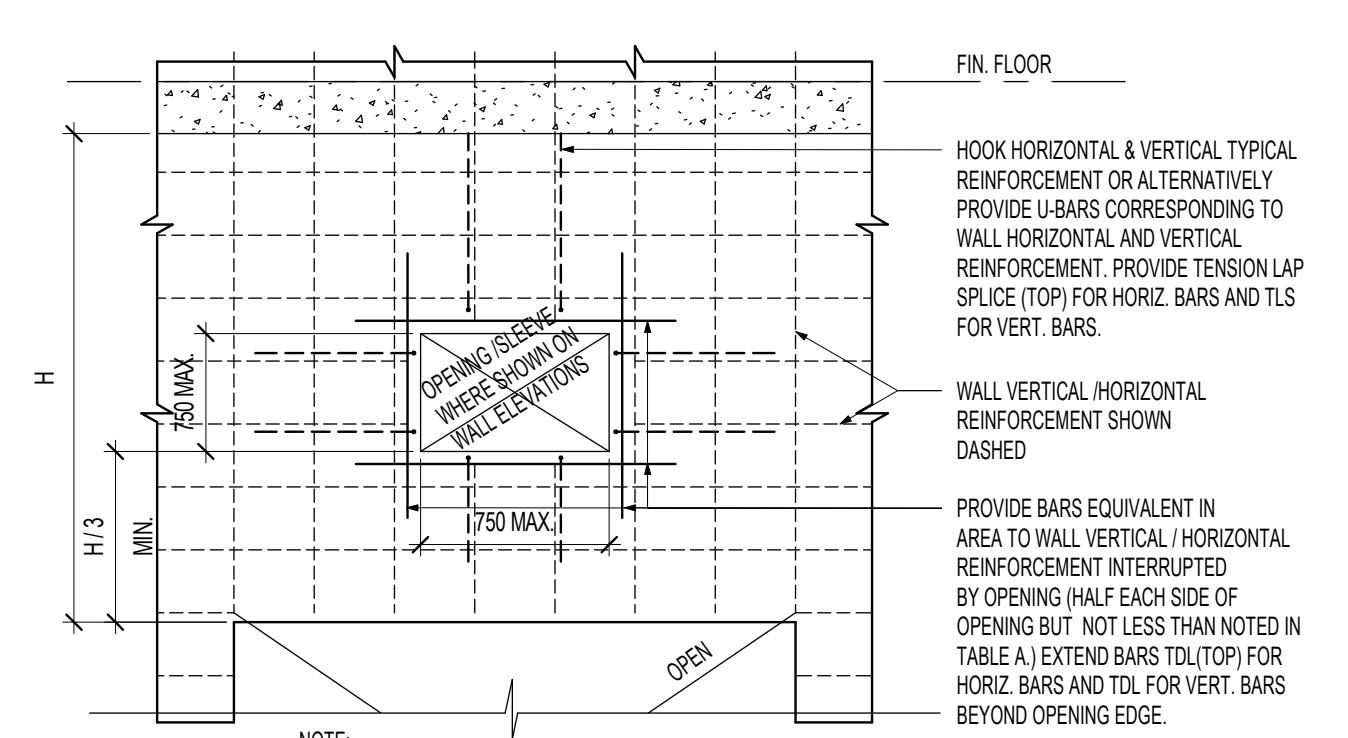


1 TYPICAL COUPLING BEAM REINFORCEMENT DETAIL

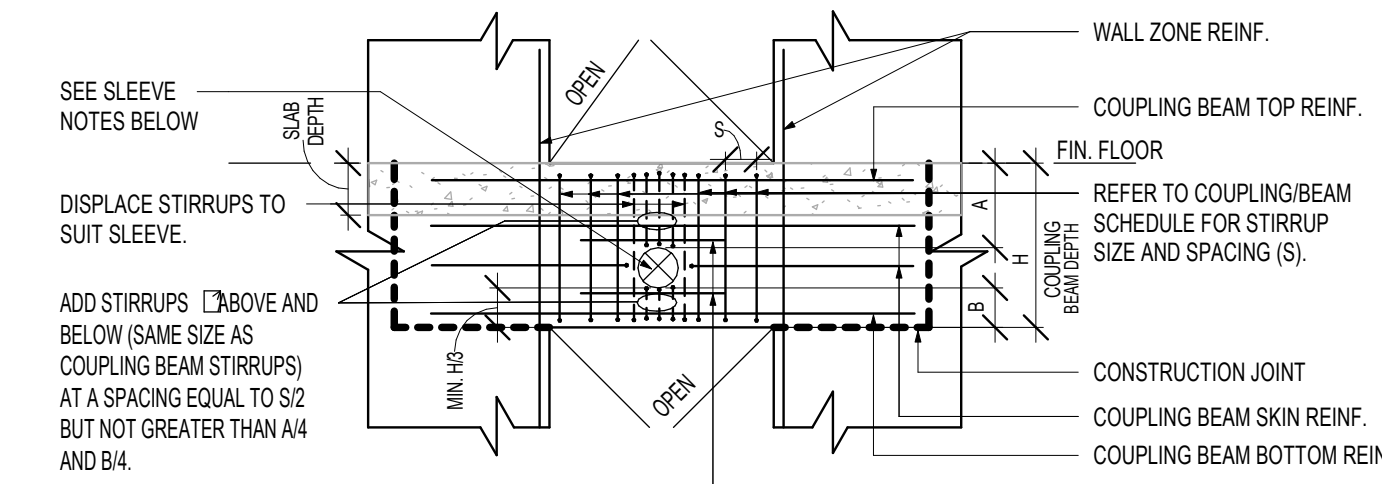


NOTES:
 1. **OPTION 1:** POUR WALLS FIRST, WITH VERTICAL JOINT C/J1 BETWEEN THE WALLS AND THE COUPLING BEAM. POUR COUPLING BEAM WITH THE SLAB (NO HORIZONTAL JOINT BETWEEN THE SLAB AND THE COUPLING BEAM). PUDDLE COUPLING BEAM AND SLAB IF f_c SLAB $< f_c$ COUPLING BEAM (SEE DETAIL A-A)
 2. **OPTION 2:** IF APPROVED BY CONSULTANT, POUR COUPLING BEAM TO UNDERSIDE OF SLAB WITH THE WALLS, (HORIZONTAL C/J1 BETWEEN THE SLAB AND THE WEB OF COUPLING BEAM), PUDDLE SLAB IF f_c SLAB $< f_c$ COUPLING BEAM (SEE DETAIL B-B)

1A TYPICAL SHEAR WALL AND COUPLING (LINTEL) BEAM CONSTRUCTION JOINT DETAIL

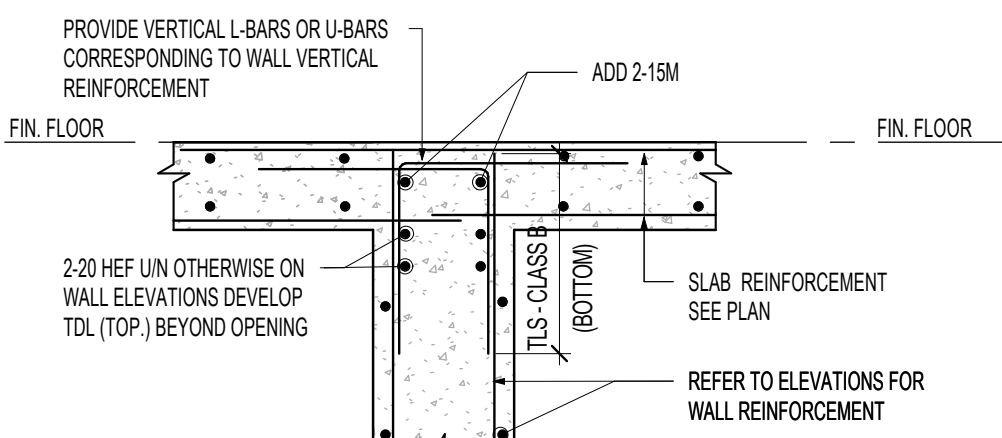


2 TYPICAL ADDITIONAL REINFORCEMENT FOR WALL OPENINGS UP TO 750mmX750mm SIZE

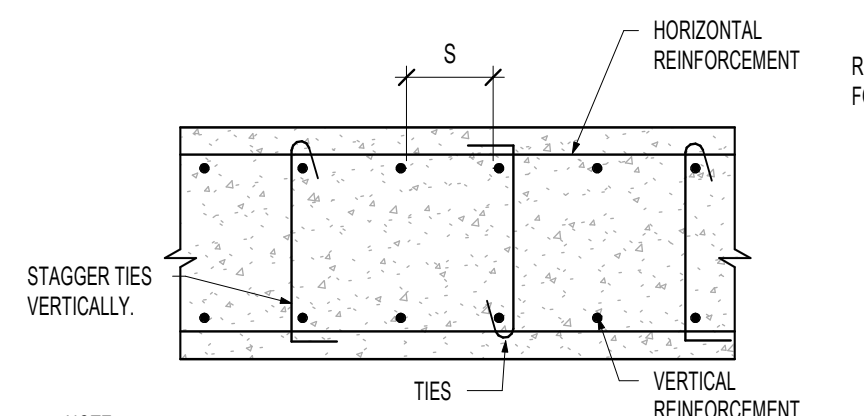


NOTE:
 1. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL SLEEVES LARGER THAN H/4
 2. MULTIPLE SLEEVES (MAX 3 SLEEVES WITH $\phi < H/4$) SHALL BE PLACED WITH MIN 250mm CLEAR BETWEEN SLEEVES.

3 TYPICAL ADDITIONAL REINFORCEMENT COUPLING BEAM SLEEVES UP TO H/4

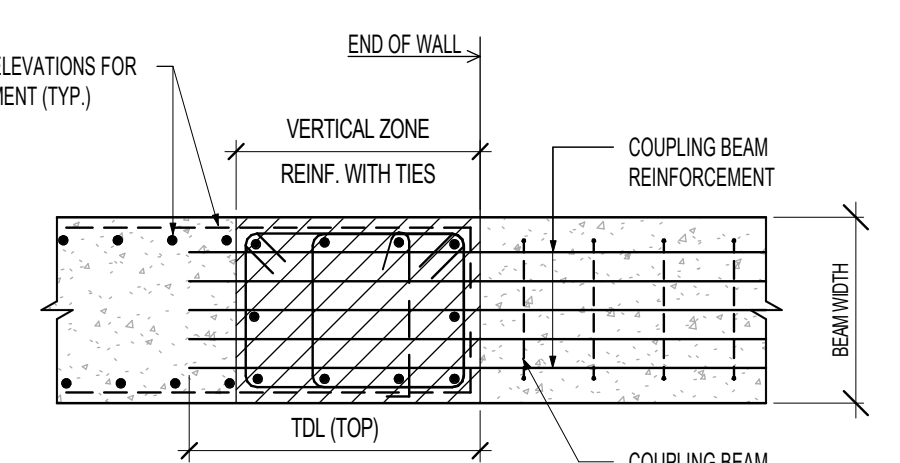


4 TYPICAL DETAIL AT TOP OF WALLS AND BELOW OPENINGS WHERE COUPLING BEAM IS NOT PROVIDED



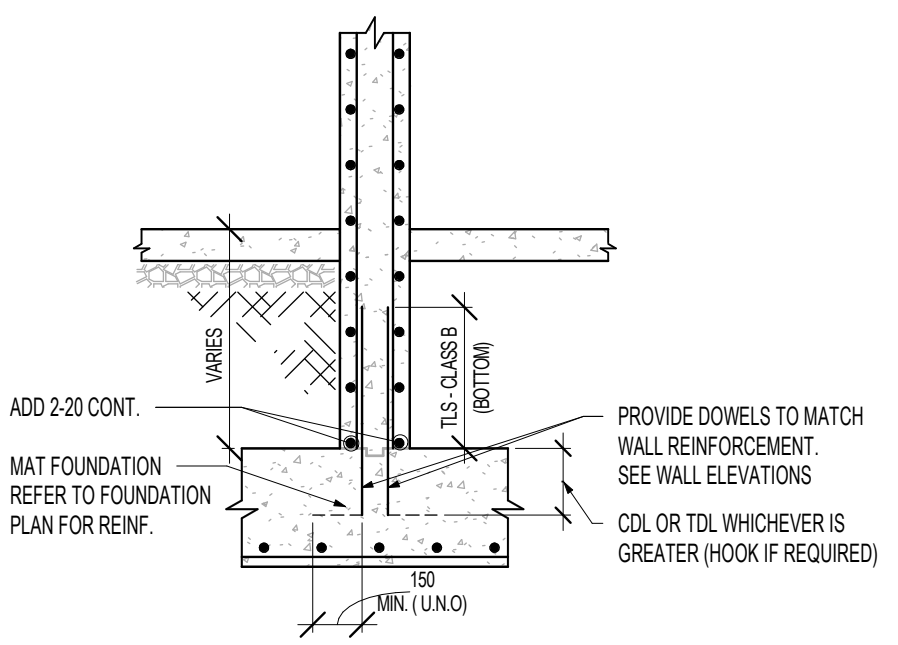
NOTE:
 1. PROVIDE TIES TO DISTRIBUTED WALL REINFORCEMENT WITH VERTICAL SPACING AS PER TABLE 2 UNLESS NOTED OTHERWISE ON WALL ELEVATIONS.
 2. WHEN CLEAR SPACE (S) BETWEEN VERTICAL DISTRIBUTED REINFORCEMENT IS LARGER THAN 150mm, PROVIDE TIES AT EVERY VERTICAL BAR. WHEN $S \leq 150$, TIES MAY BE PROVIDED AT EVERY OTHER VERTICAL BAR AS SHOWN ABOVE.
 3. REFER TO ZONE REINFORCEMENT DETAILS FOR TIES IN THOSE AREAS.

7 TYPICAL TIE DETAIL FOR DISTRIBUTED VERTICAL WALL REINFORCEMENT

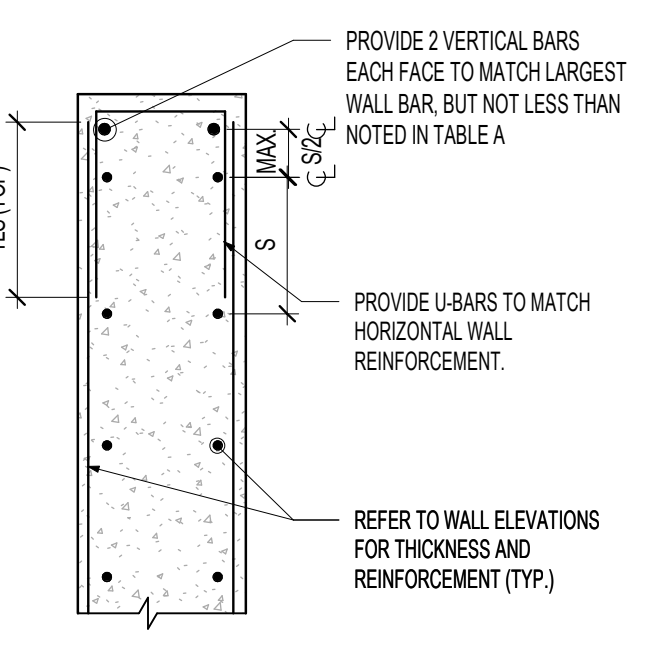
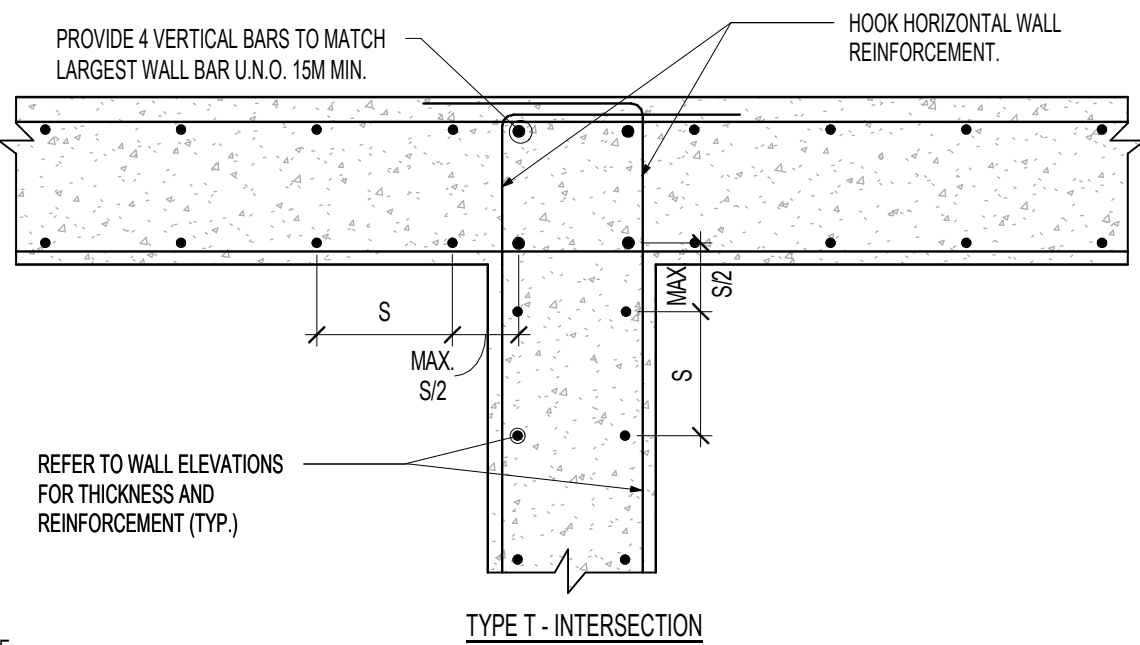
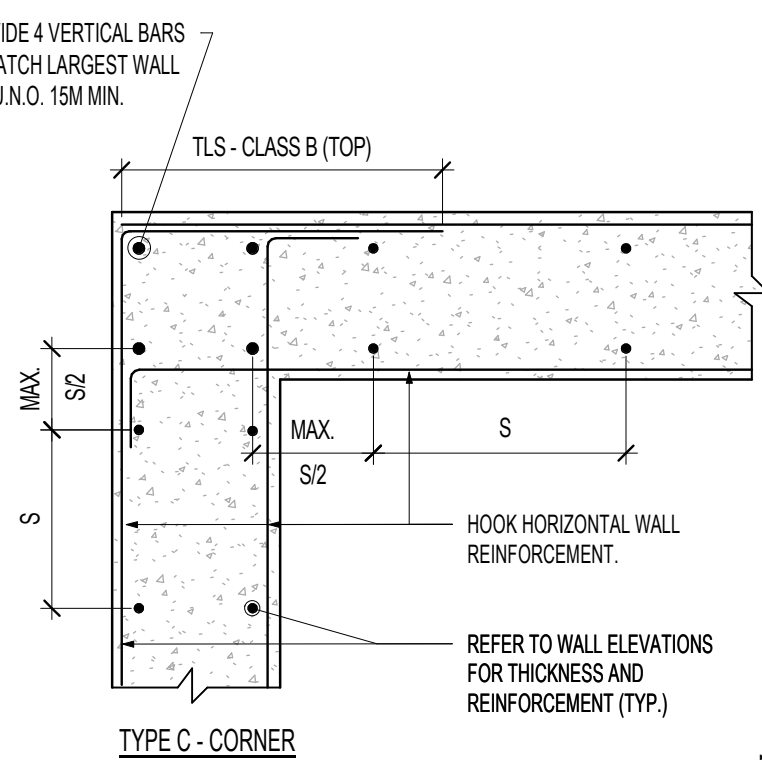


NOTE:
 1. COORDINATE WALL ZONE VERTICAL BAR PLACEMENT WITH BEAM HORIZONTAL REINFORCEMENT ARRANGEMENT.

8 TYPICAL COUPLING BEAM DETAIL PLAN DETAIL

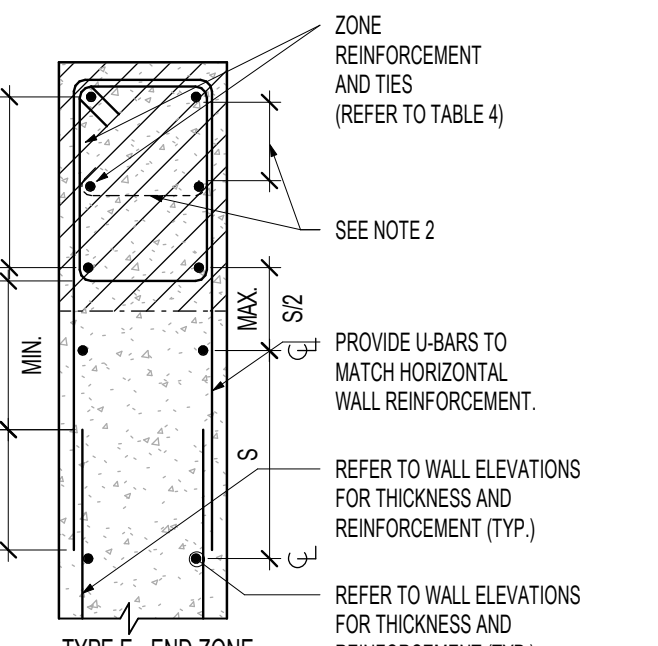
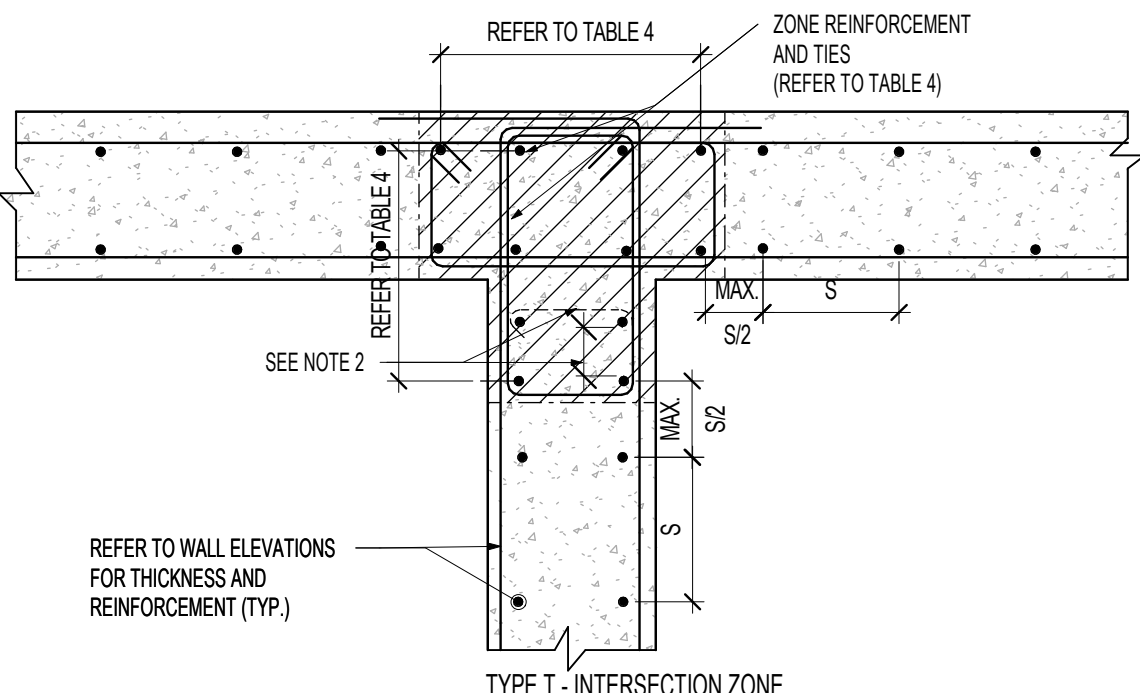
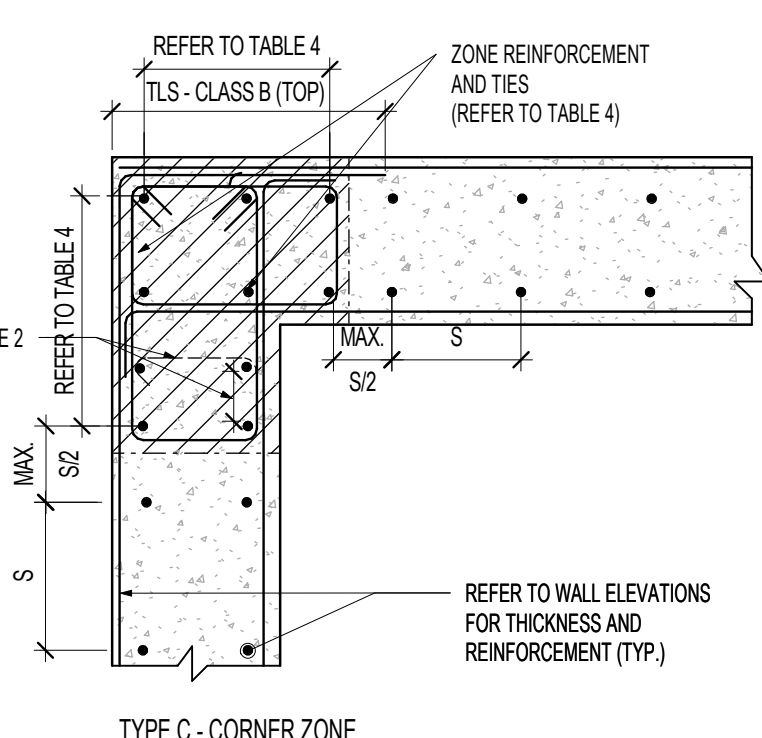


13 TYPICAL SHEAR WALL DOWELS AT FOUNDATION



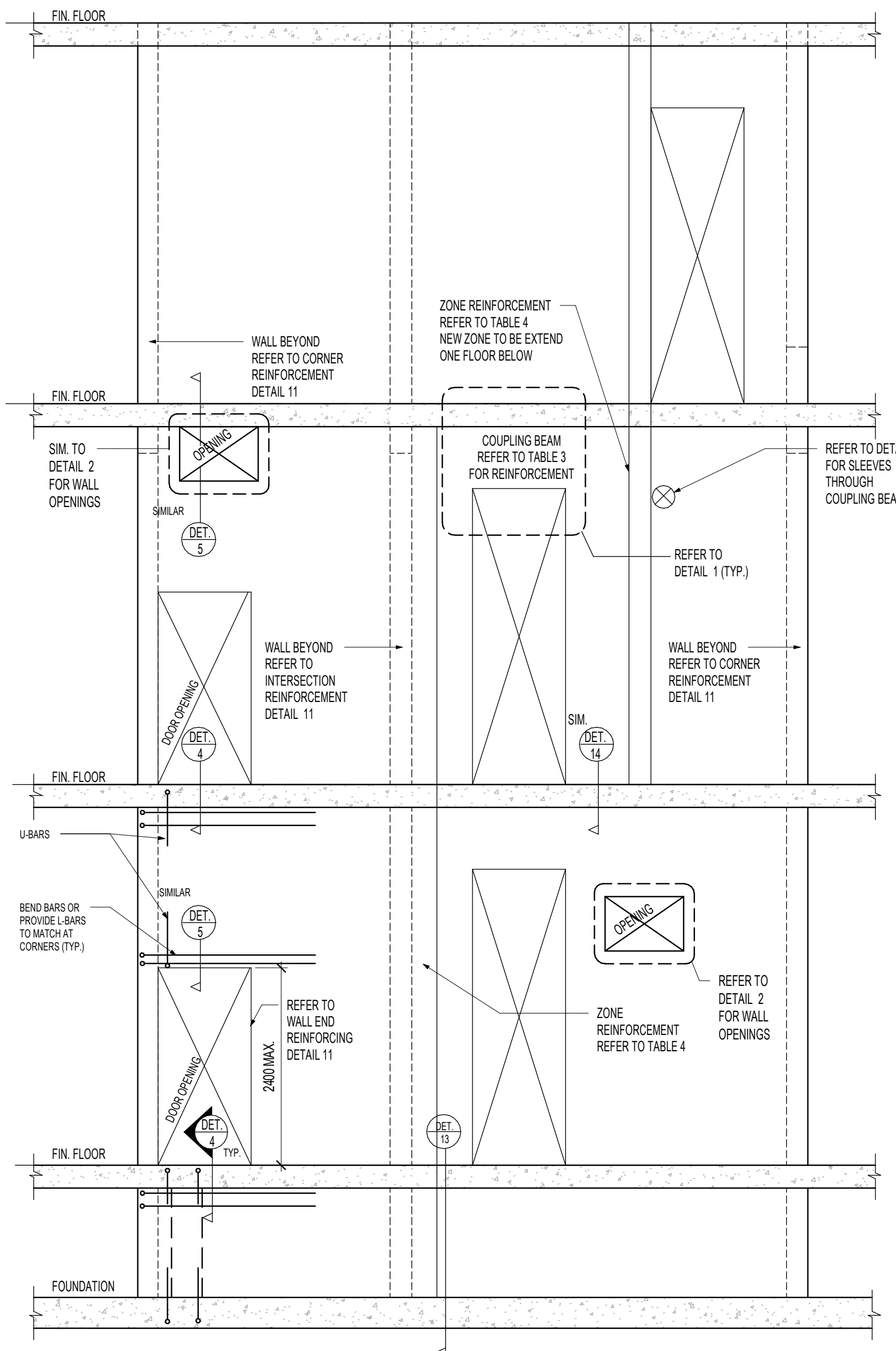
NOTE:
 S - SPACING OF VERTICAL DISTRIBUTED REINFORCEMENT. SEE WALL ELEVATIONS.
 1. REFER TO TABLE 2 TO DETERMINE IF TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT ARE REQUIRED. SEE DETAIL 7 WHEN TIES ARE REQUIRED.

11 TYPICAL WALL DETAILS WITHOUT ZONE REINFORCEMENT



NOTE:
 S - SPACING OF VERTICAL DISTRIBUTED REINFORCEMENT. SEE TABLE 1 AND WALL ELEVATIONS.
 1. REFER TO TABLE 2 TO DETERMINE IF TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT ARE REQUIRED. SEE DETAIL 7 WHEN TIES ARE REQUIRED.
 2. WHEN CLEAR SPACE BETWEEN ADJACENT VERTICAL ZONE BARS IS LARGER THAN 150mm, PROVIDE TIES AT EVERY VERTICAL ZONE BAR. WHEN THE CLEAR SPACE IS ≤ 150 mm, TIES MAY BE PROVIDED AT EVERY OTHER VERTICAL ZONE BAR.

12 TYPICAL WALL DETAILS WITH ZONE REINFORCEMENT



15 TYPICAL WALL ELEVATIONS

SHEAR WALL NOTES:
 1. SHEAR WALL ELEVATIONS SHOULD BE READ IN CONJUNCTION WITH SCHEDULES AND TYPICAL SHEAR WALL DETAILS.
 2. PROVIDE DISTRIBUTED WALL REINFORCEMENT IN ACCORDANCE WITH THE VALUES SHOWN ON THE WALL SECTIONS. IF NO DISTRIBUTED WALL REINFORCEMENT IS INDICATED, PROVIDE NOMINAL WALL REINFORCEMENT (NWR) AS PER TABLE 1.

TABLE 1: NOMINAL SHEAR WALL REINFORCEMENT (NWR)

WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT	
	HORIZONTAL	VERTICAL
200 (8")	10@300 HEF	15@300 VEF
300 (12")	15@300 HEF	15@300 VEF

TABLE A: MINIMUM TRIMMING REBAR AROUND SHEAR WALL OPENING

WALL THICKNESS (mm)	TRIMMING BARS - OPENINGS	
	HORIZONTAL	VERTICAL
150	2-15	-
200-300	2-15EF	-
350-450	2-20EF	-
500-600	2-25EF	-

7. WALL REINFORCEMENT IS VERTICAL AND HORIZONTAL EACH FACE (H&VF) UNLESS NOTED OTHERWISE.
 8. PROVIDE TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT IF THE BAR SIZE IS LARGER THAN 20M OR IF BAR SPACING IS LESS THAN THAT OUTLINED IN TABLE 2. REFER TO DETAIL 7 FOR ADDITIONAL INFORMATION.
 9. UNLESS OTHERWISE SHOWN PROVIDE DOWELS FROM SHEAR WALL, CAPS, OR FOOTINGS INTO SHEAR WALLS TO MATCH VERTICALS IN FIRST LIFT OF WALLS. SEE DETAIL 13.
 10. UNLESS NOTED OTHERWISE AT TOPS OF ALL SHEAR WALLS PROVIDE 15 @ 400 DOWELS FROM WALL TO SLAB, WHERE WALL IS CONTINUOUS ABOVE SLAB SEE DETAIL 14.
 11. PROVIDE TLS CLASS B (BOTTOM) FOR ALL VERTICAL BARS (REFER TO DETAIL C02B (fy = 400MPa) OR C03B (fy = 500MPa) FOR LENGTHS)
 12. PROVIDE TLS CLASS B (TOP) FOR ALL HORIZONTAL BARS (REFER TO DETAIL C02B (fy = 400MPa) OR C03B (fy = 500MPa) FOR LENGTHS).
 13. MINIMUM DOWEL LENGTH SHALL BE $2 \times$ TLS (BOTTOM).
 14. PLACE HORIZONTAL REINFORCING ON OUTSIDE FACE OF WALL UNLESS NOTED OTHERWISE.
 15. FOR WALLS THAT ARE UNBRACED FOR TWO STORES OR MORE PROVIDE EITHER CONTINUOUS VERTICAL REINFORCEMENT FOR THE ENTIRE UNSUPPORTED HEIGHT OR USE MECHANICAL COUPLER AT THE LOCATION OF THE INTERMEDIATE SPLICE. PROVIDE TENSION LAP SPICE (TOP) FOR ALL HORIZONTAL WALL REINFORCEMENT. IF BARS OF DIFFERENT DIAMETER ARE SPLICED, USE THE SPLICE LENGTH OF THE LARGER BAR.
 16. UNLESS NOTED OTHERWISE, REFER TO THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF WALL OPENINGS. THE CONTRACTOR SHALL PROVIDE, FOR THE ENGINEER'S REVIEW, SLEEVING DRAWINGS SHOWING THE PROPOSED LOCATION AND INVERT DIMENSIONS FROM THE SLAB DATUMS AND GRIDS) FOR ALL SLEEVES 75mm DIAMETER AND LARGER. NO OPENINGS OTHER THAN THOSE WHICH ARE INDICATED ON PLAN OR ELEVATION SHALL BE MADE WITHOUT THE APPROVAL OF THE ENGINEER.
 17. WHERE MASONRY VENEER FACES A WALL, PROVIDE STANDARD DOVETAIL ANCHOR SLOTS. REFER TO TYPICAL DETAILS.
 18. REFER TO TYPICAL DETAIL C01 FOR CLEAR CONCRETE COVER.

TABLE 2: TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT

WALL THICKNESS (mm)	TIE SPACING FOR DISTRIBUTED VERTICAL REINFORCEMENT $f_c \leq 50$ MPa					
	10M	15M	20M	25M	30M	35M
200	< 200	160	< 400	200	< 600	200
250	< 160	160	< 320	240	< 480	250
300	< 140	160	< 270	240	< 400	300
350	< 120	160	< 230	240	< 350	350
400	< 100	160	< 200	240	< 300	300
450	-	-	< 180	240	< 270	400
500	-	-	< 160	240	< 240	400
600	-	-	< 140	240	< 200	400

NOTES:
 1. TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT ARE 10M.
 2. THIS TABLE IS BASED ON $f_c \leq 50$ MPa. FOR $f_c > 50$ MPa REDUCE THE VERTICAL SPACING IN TABLE BY MULTIPLYING BY 0.75.
 3. DISTRIBUTED VERTICAL REINFORCEMENT WITH BAR SPACING LESS THAN THAT INDICATED FOR 10M, 15M AND 20M BARS SHALL BE TIED WITH MINIMUM TIE VERTICAL SPACING AS INDICATED.
 4. DISTRIBUTED VERTICAL REINFORCEMENT WITH BAR SIZE LARGER THAN 20M SHALL BE TIED AT MINIMUM TIE VERTICAL SPACING INDICATED.
 5. SEE ALSO DETAIL 7.

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CITY OF VAUGHAN
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 9511 WESTON ROAD, VAUGHAN

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VAUGHAN
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Salas O'Brien
 2238 Sheppard Ave. E. Suite No. 1100
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 Stephenson Engineering, a company of Salas O'Brien
 PROFESSIONAL SEAL
 LICENSED PROFESSIONAL ENGINEER
 24-09-09
 M.R. MARTILA
 100164027
 PROVINCE OF ONTARIO

DWG TITLE
SHEAR WALL NOTES AND DETAILS
 ORIENTATION
 TRUE NORTH CONSTRUCTION NORTH
 DATE
 SEPT. 2024
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DWG TITLE
CONCRETE WALL ELEVATIONS

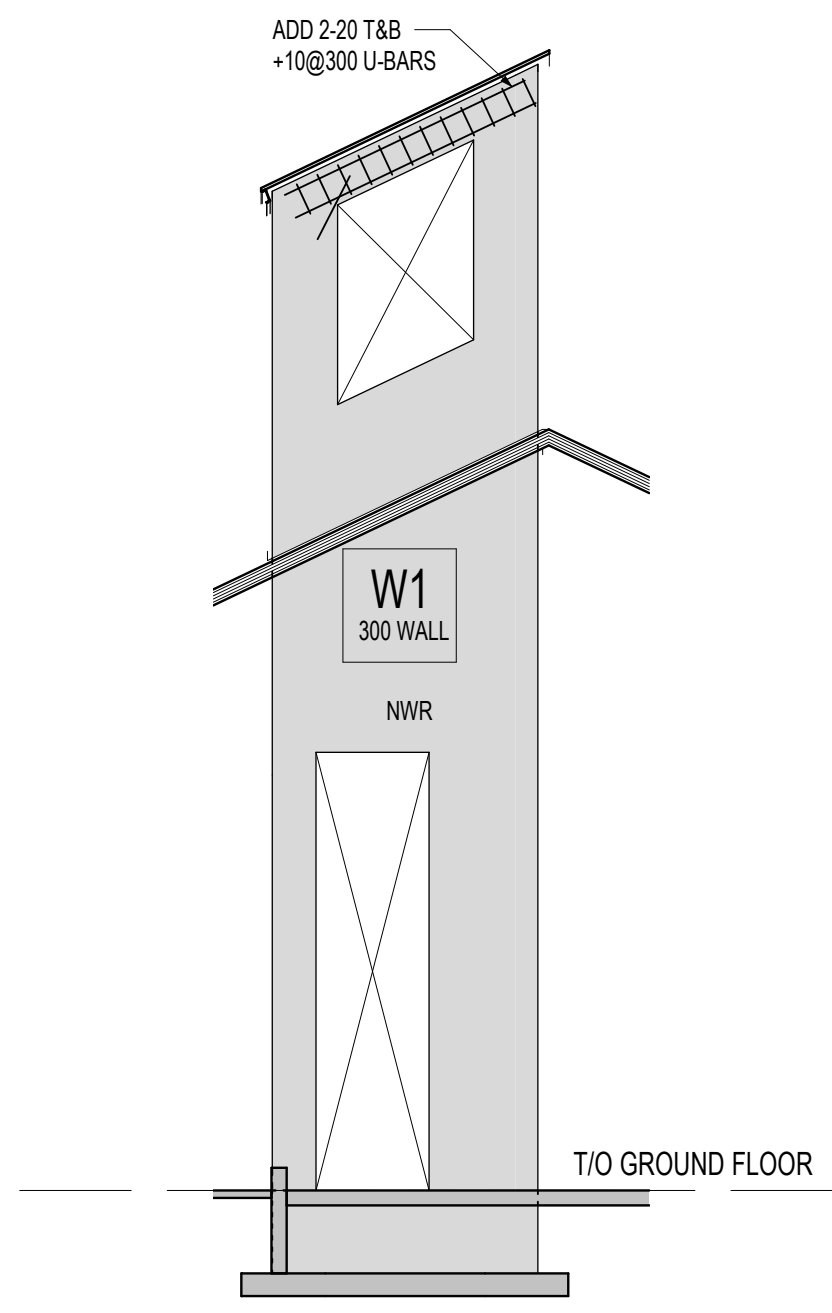
ORIENTATION

DATE **SEPT. 2024**

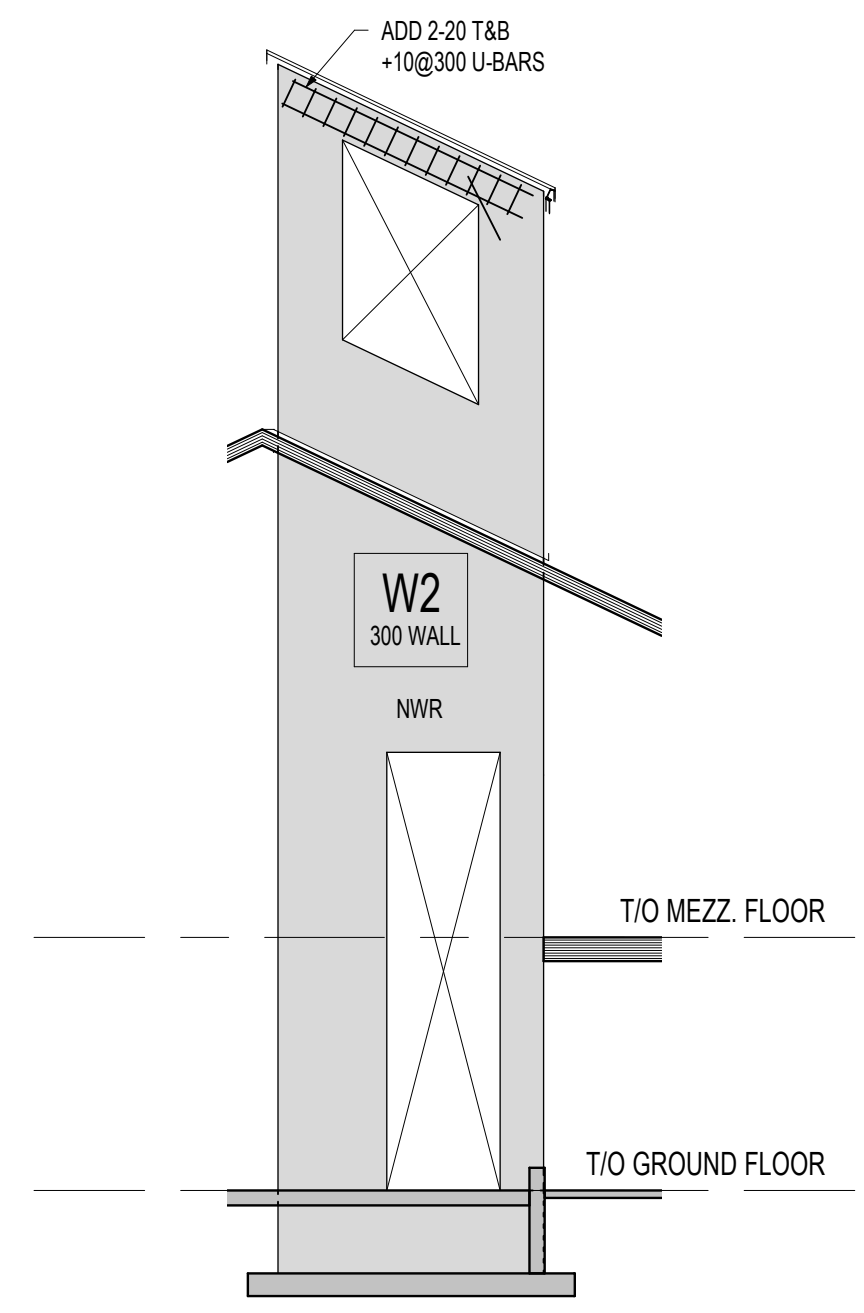
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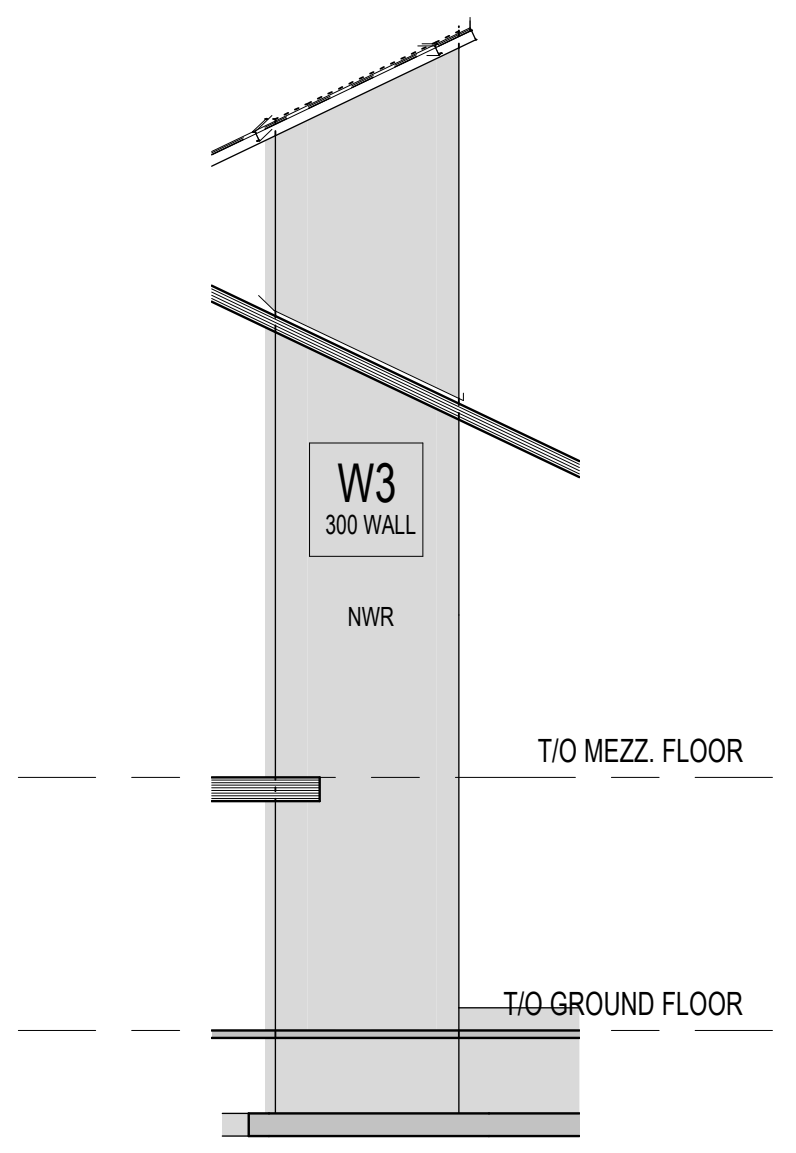
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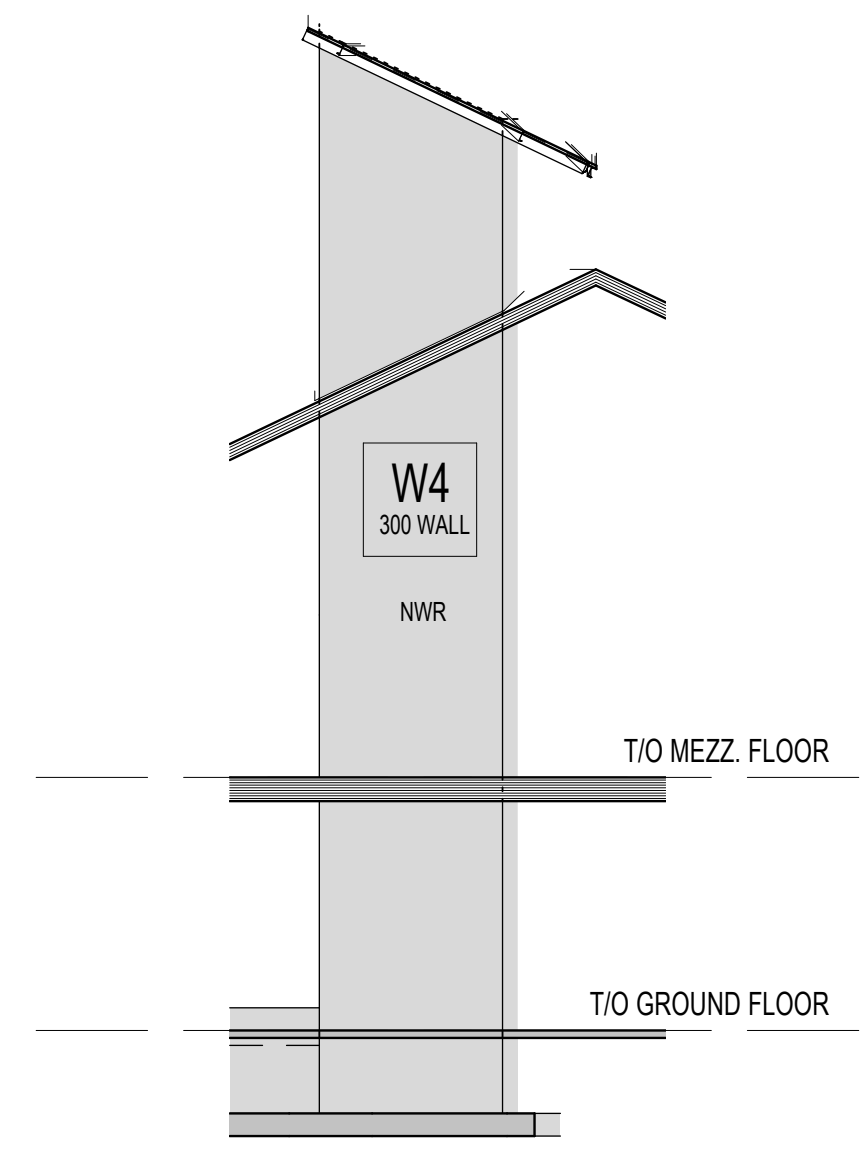
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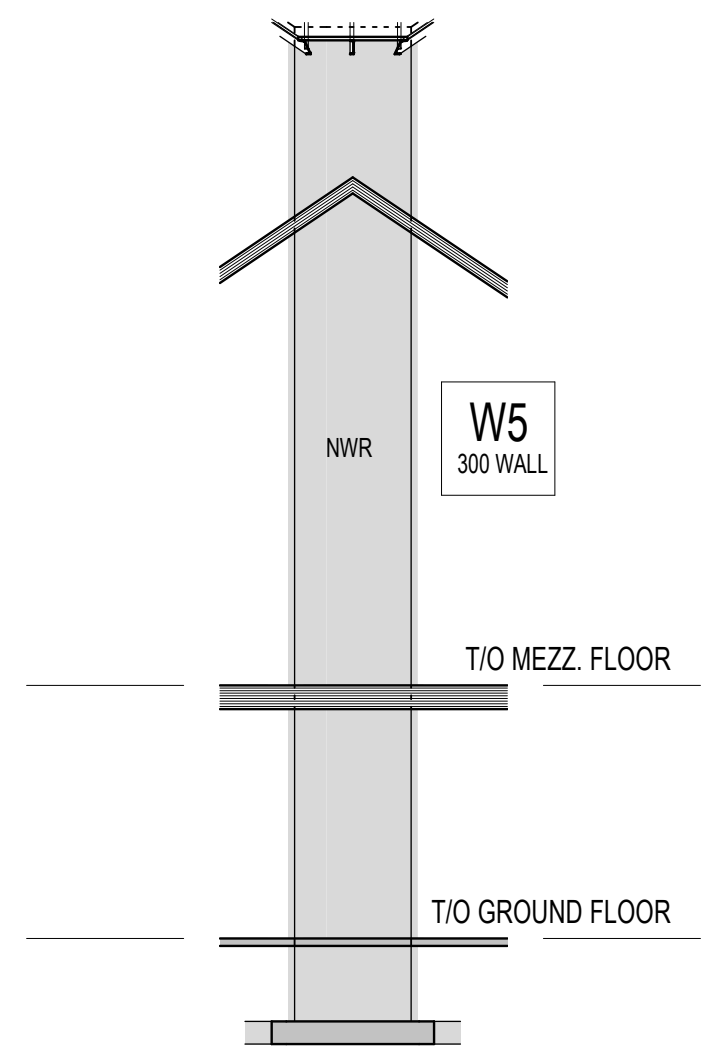
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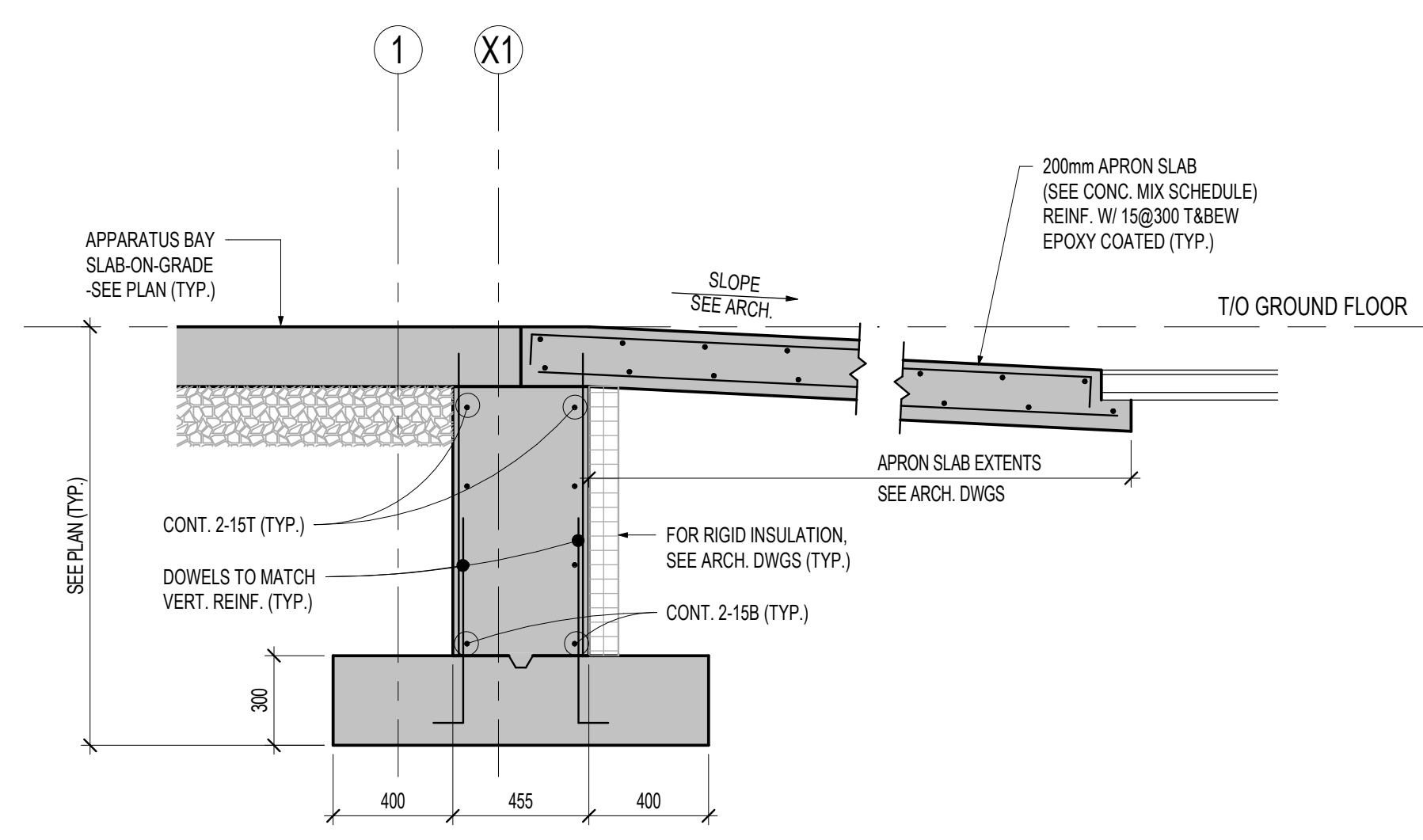


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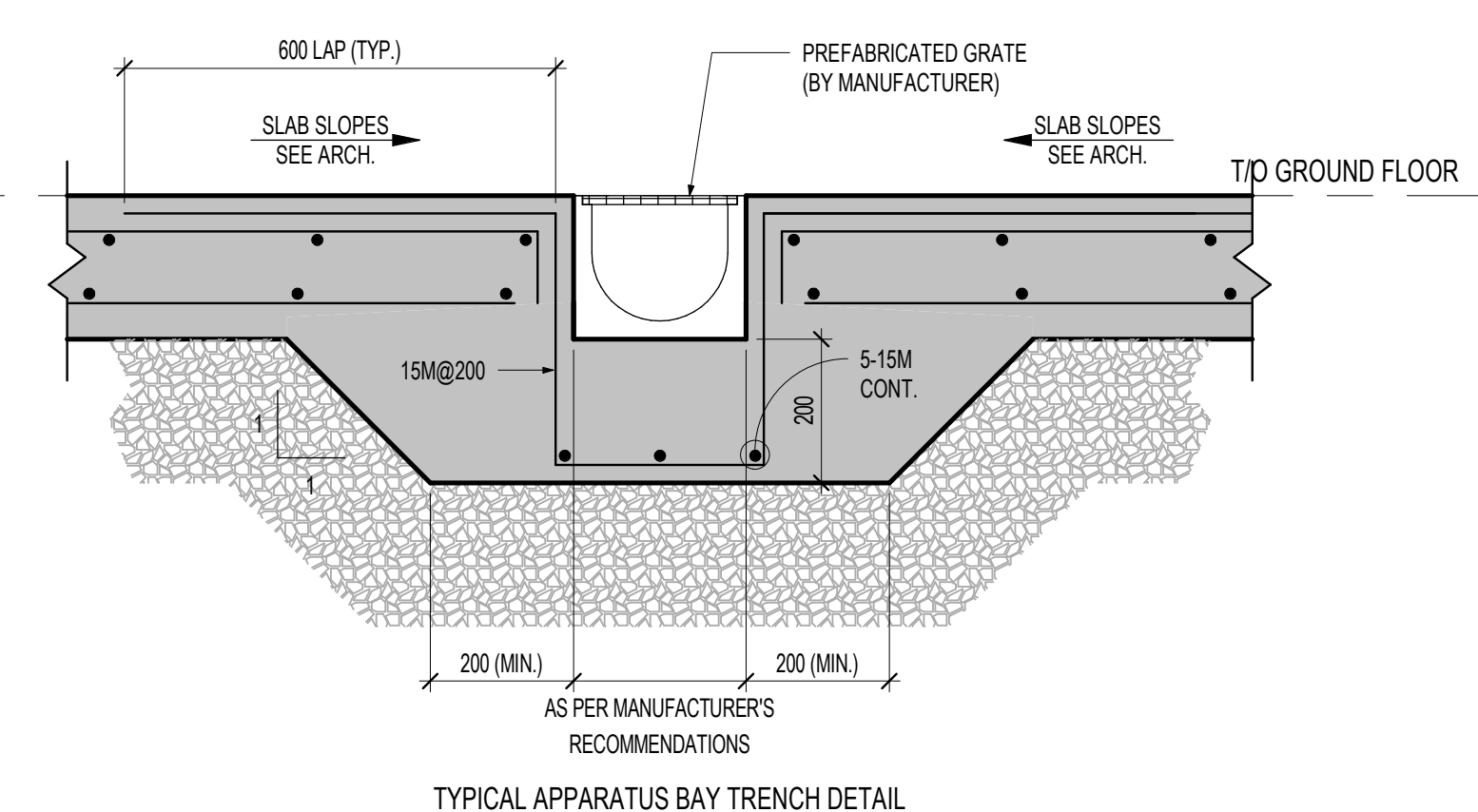


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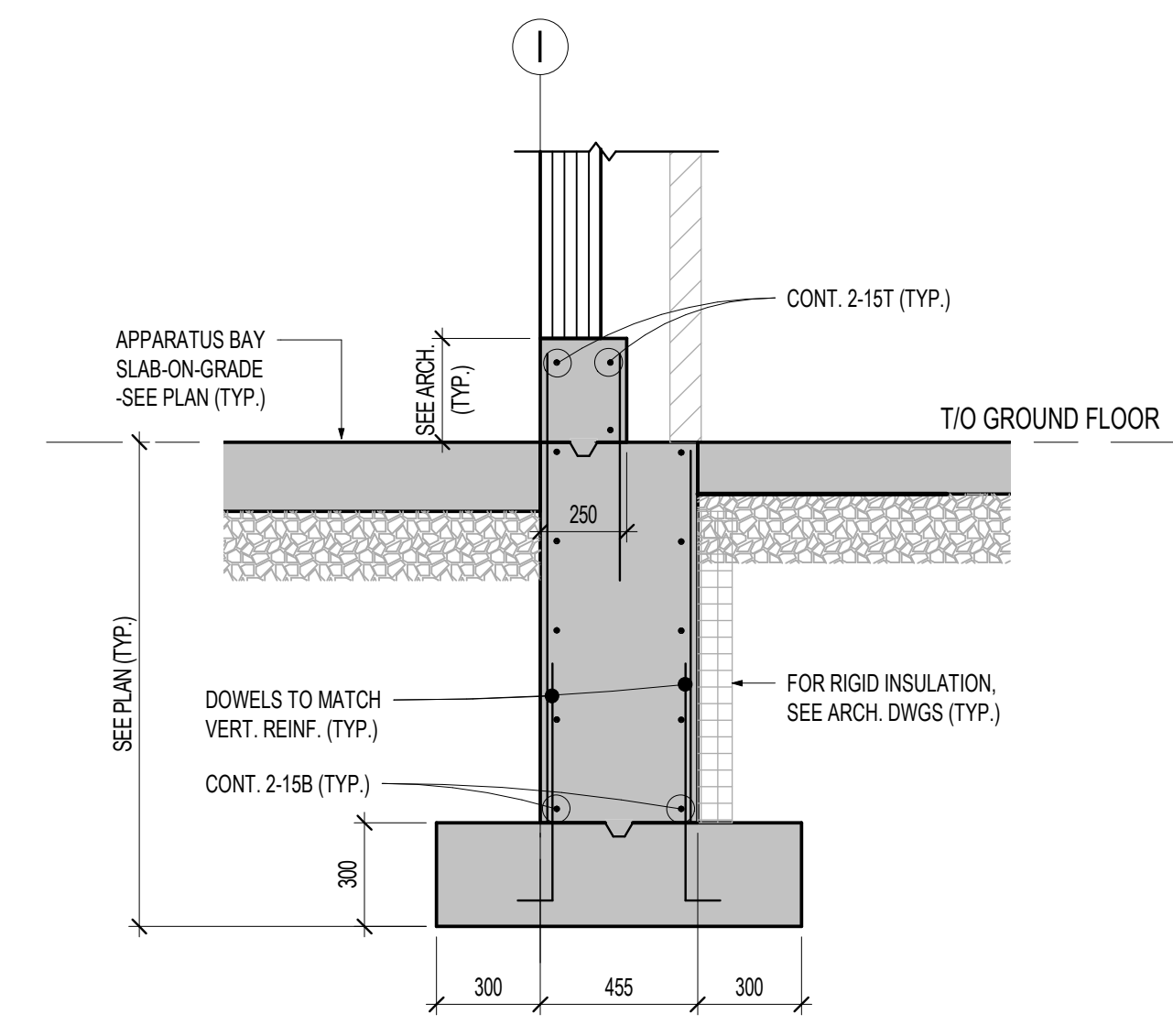
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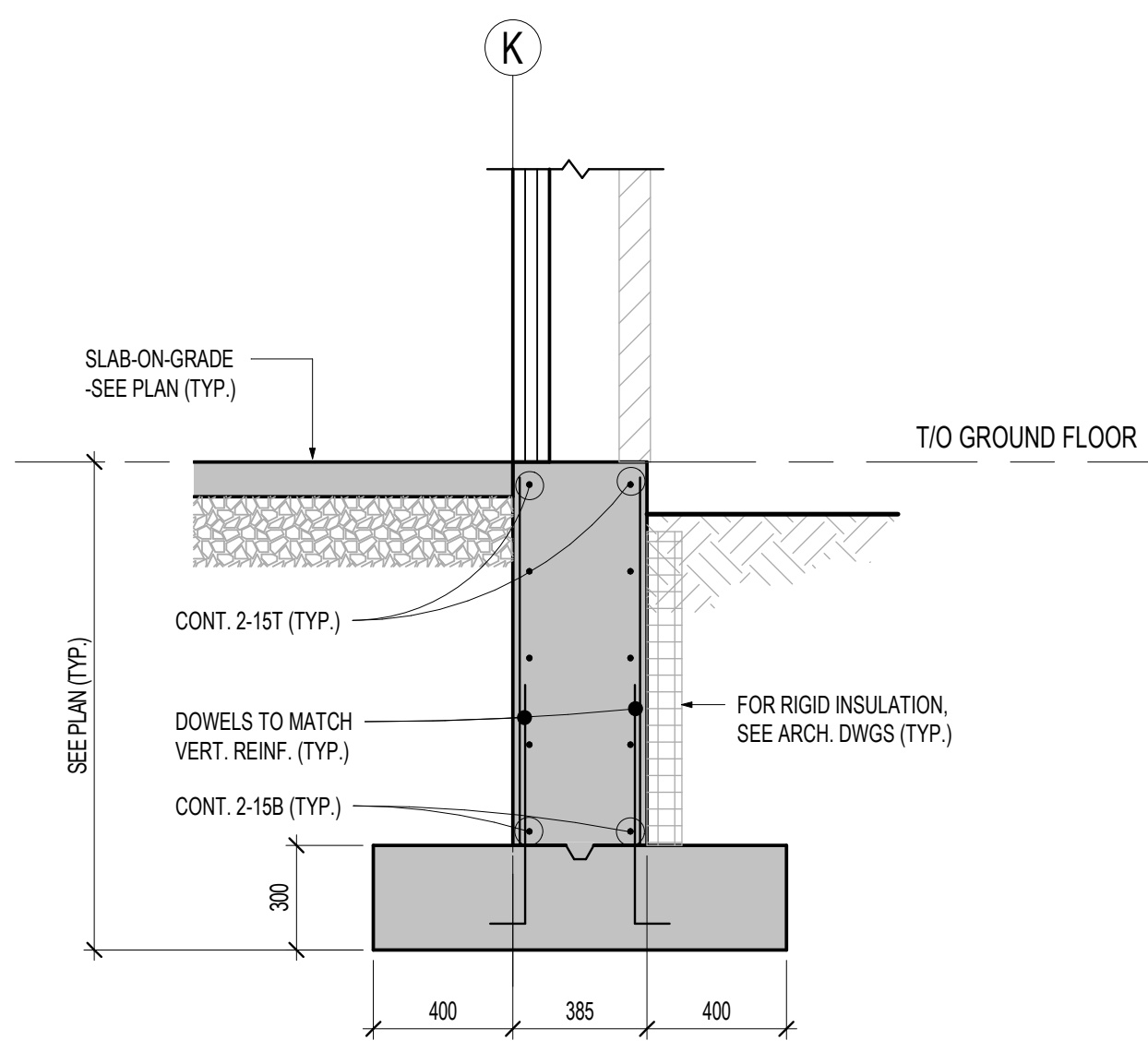
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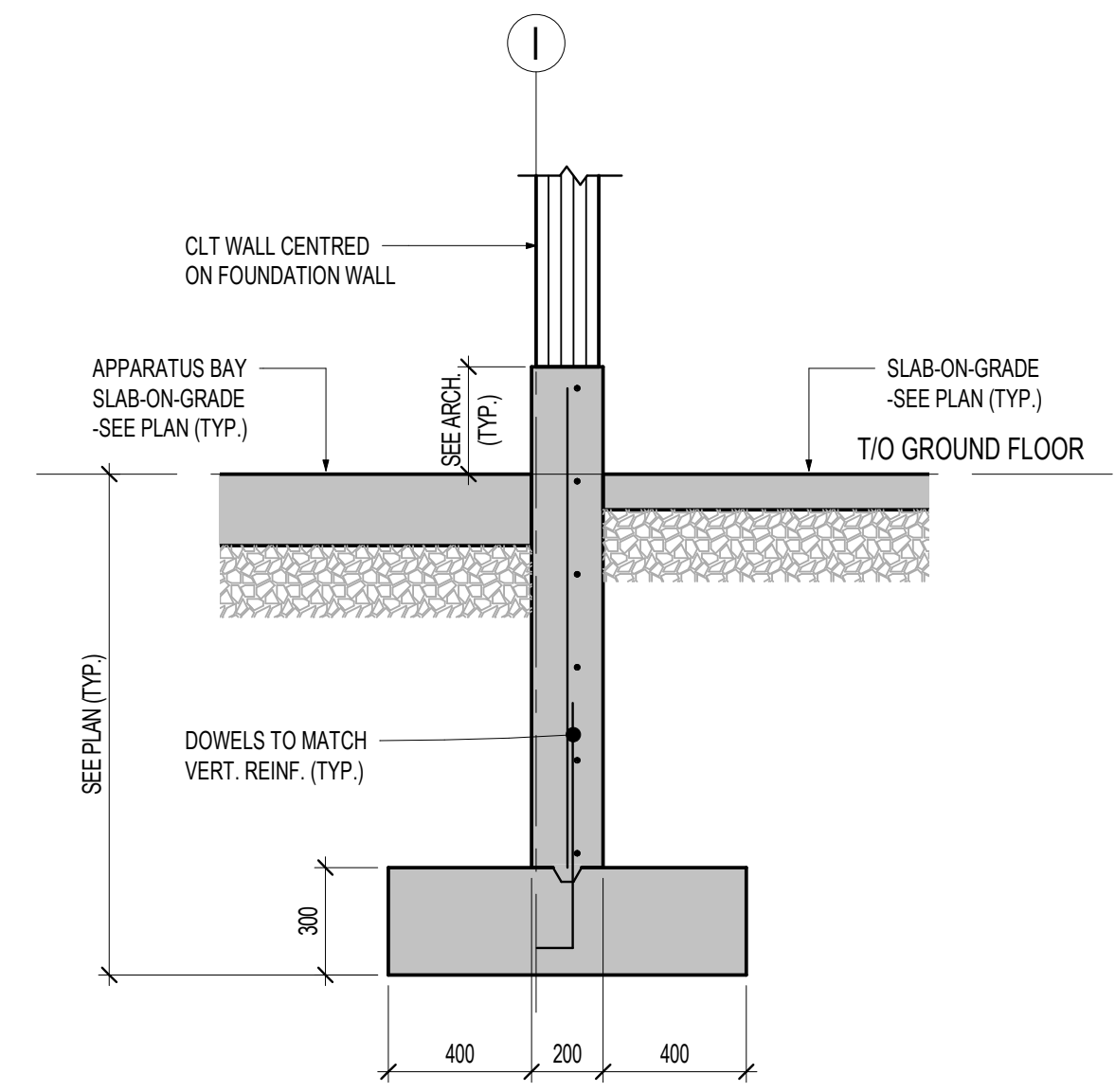
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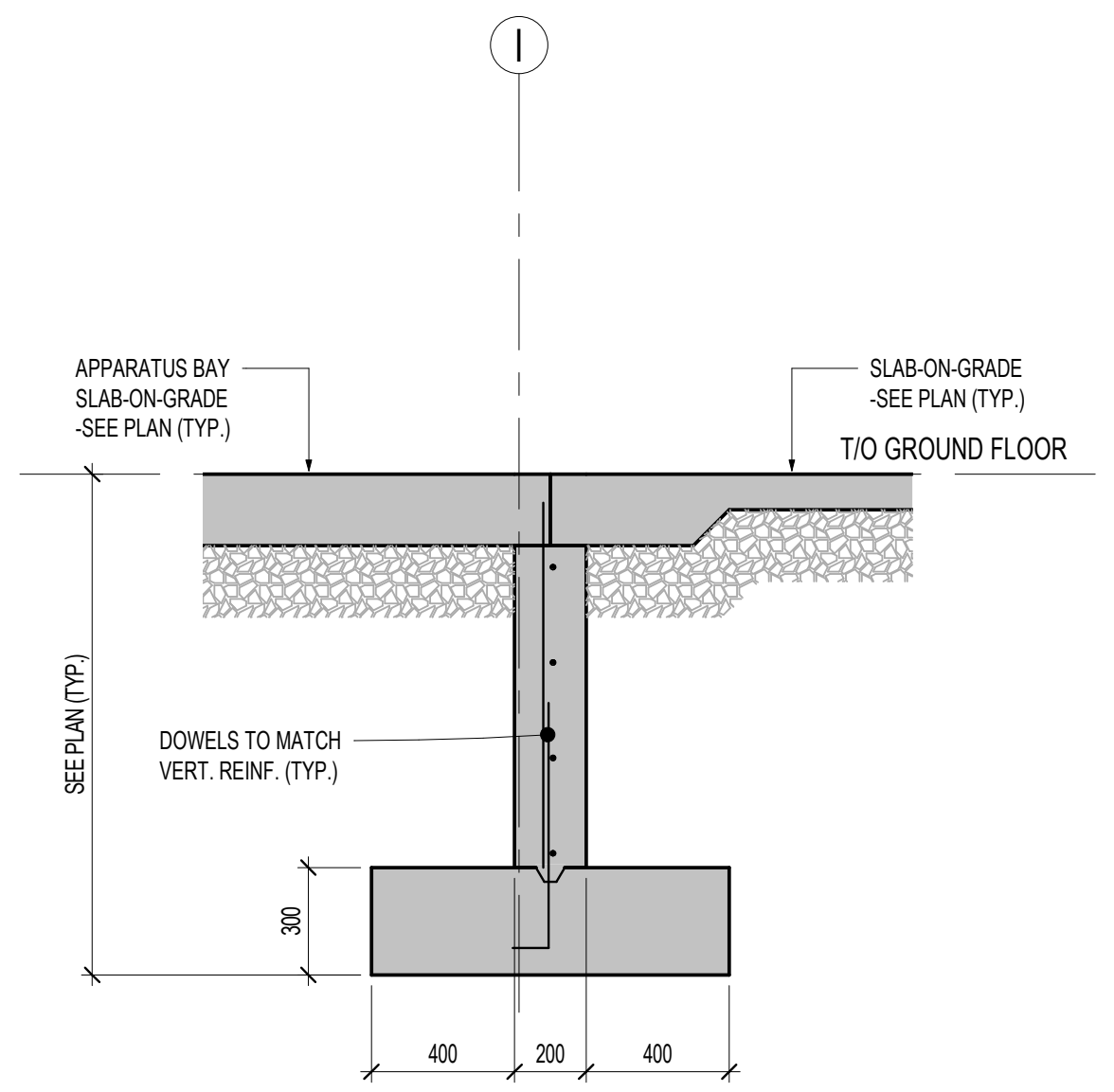
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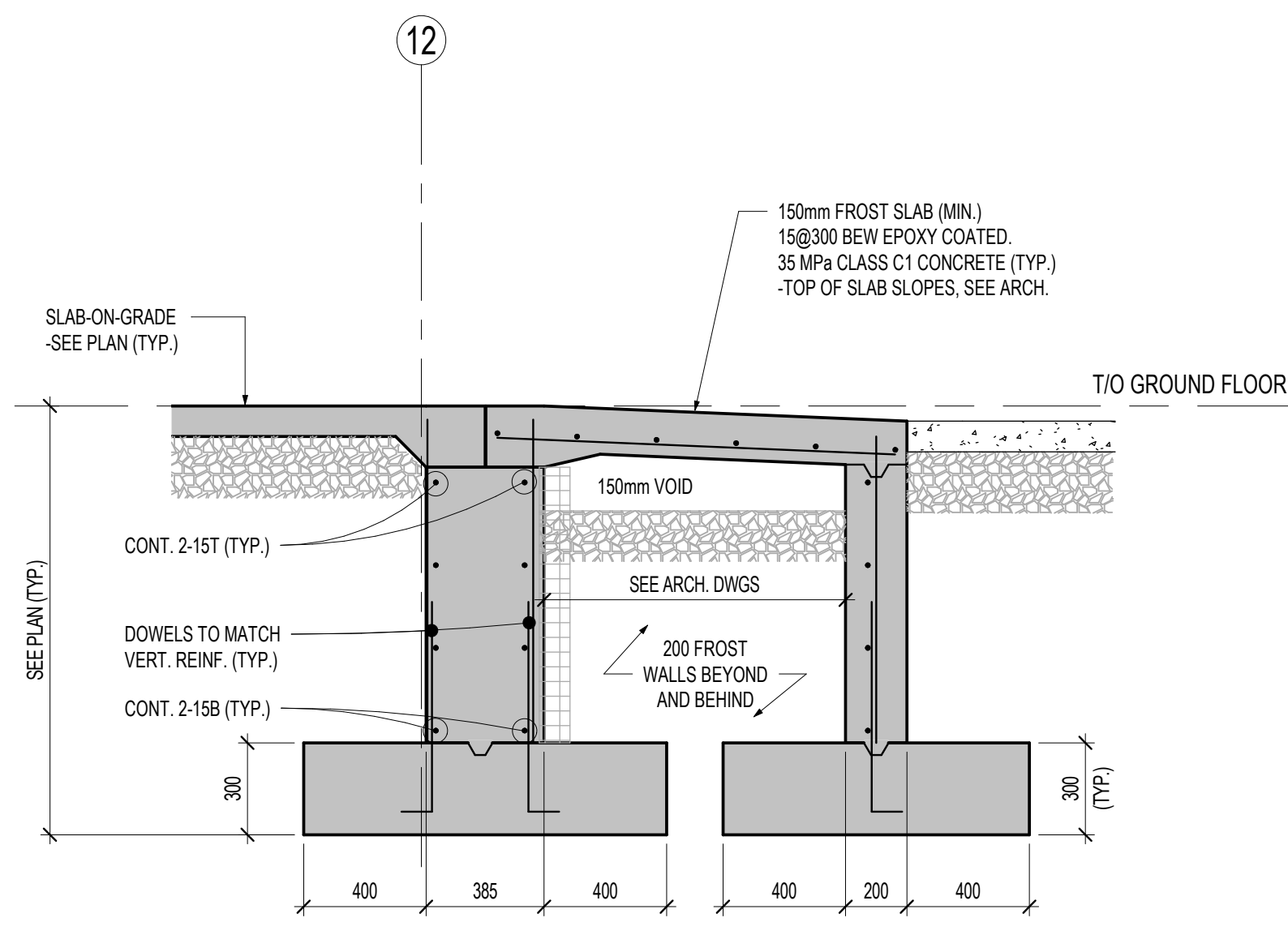
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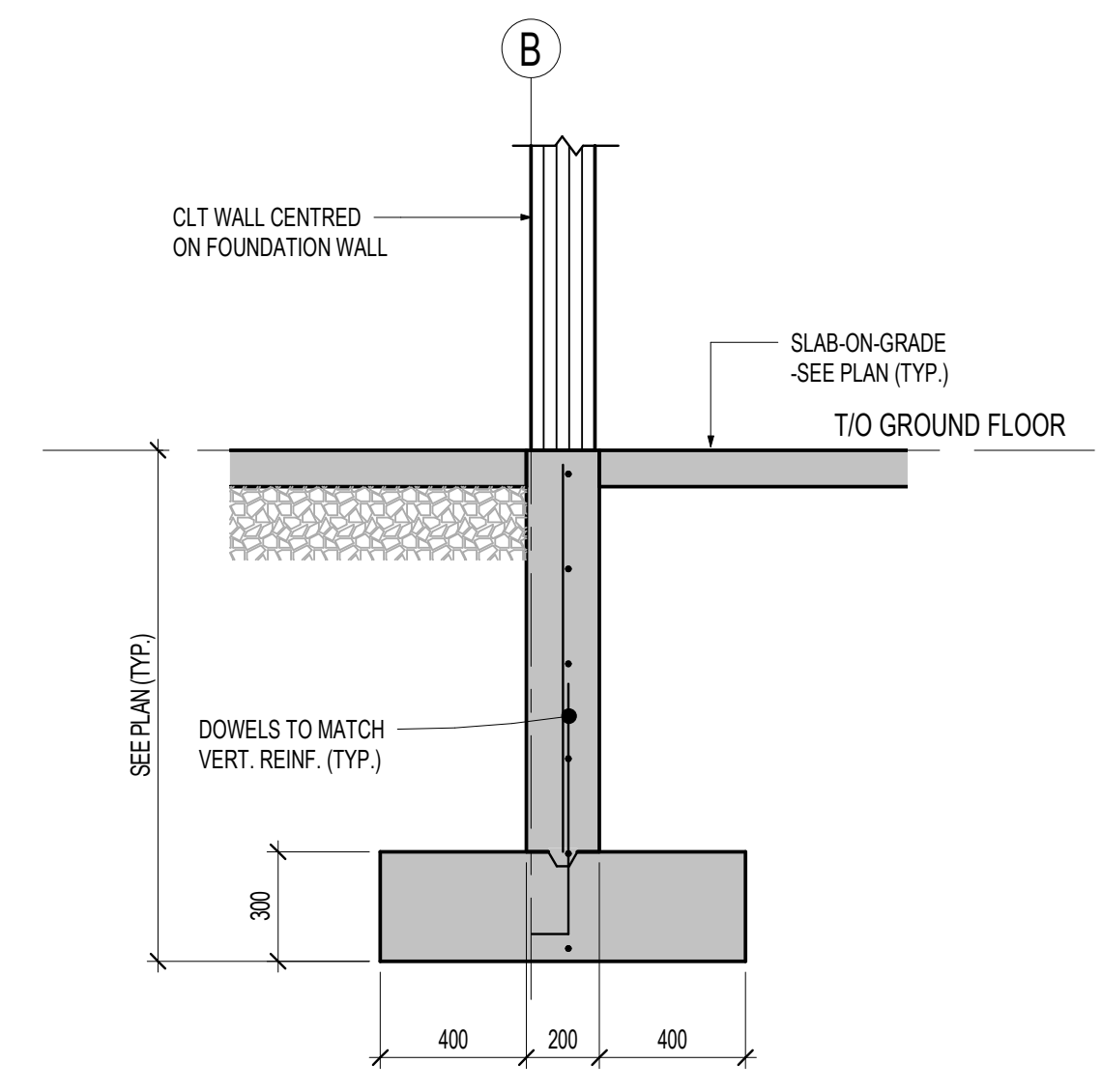
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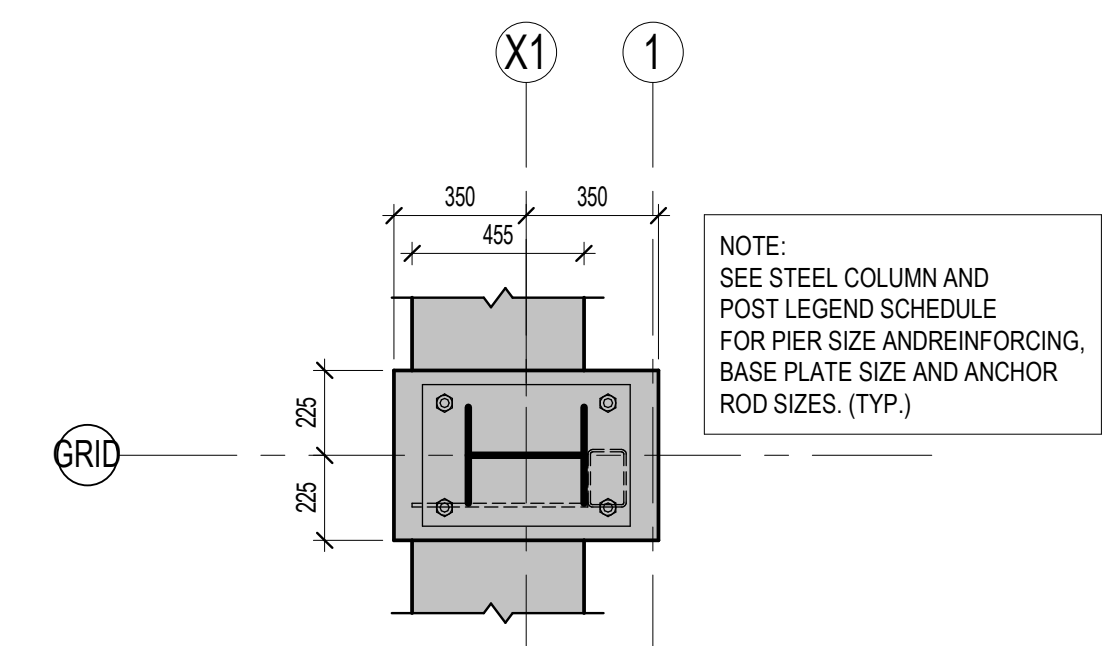
06 SECTION
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07 SECTION
S2-03 1:20



F8 SECTION
S2-03 1:20



PD1 DETAIL
S2-03 1:20

TABLE 1: FOUNDATION WALL REINFORCING (UNO)

WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT		WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT	
	HORIZONTAL	VERTICAL		HORIZONTAL	VERTICAL
≤ 150/200	10@320H (CENTERED)	10@440V (CENTERED)	≤ 450	15@440 HEF	10@280 VEF
≤ 250	10@400 HEF	10@460 VEF	≤ 500	15@400 HEF	15@460 VEF
≤ 300	10@320 HEF	10@440 VEF	≤ 600	15@320 HEF	15@440 VEF
≤ 350	10@280 HEF	10@380 VEF			
≤ 400	10@240 HEF	10@320 VEF			

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2235 Sheppard Ave. E. Suite No. 1100
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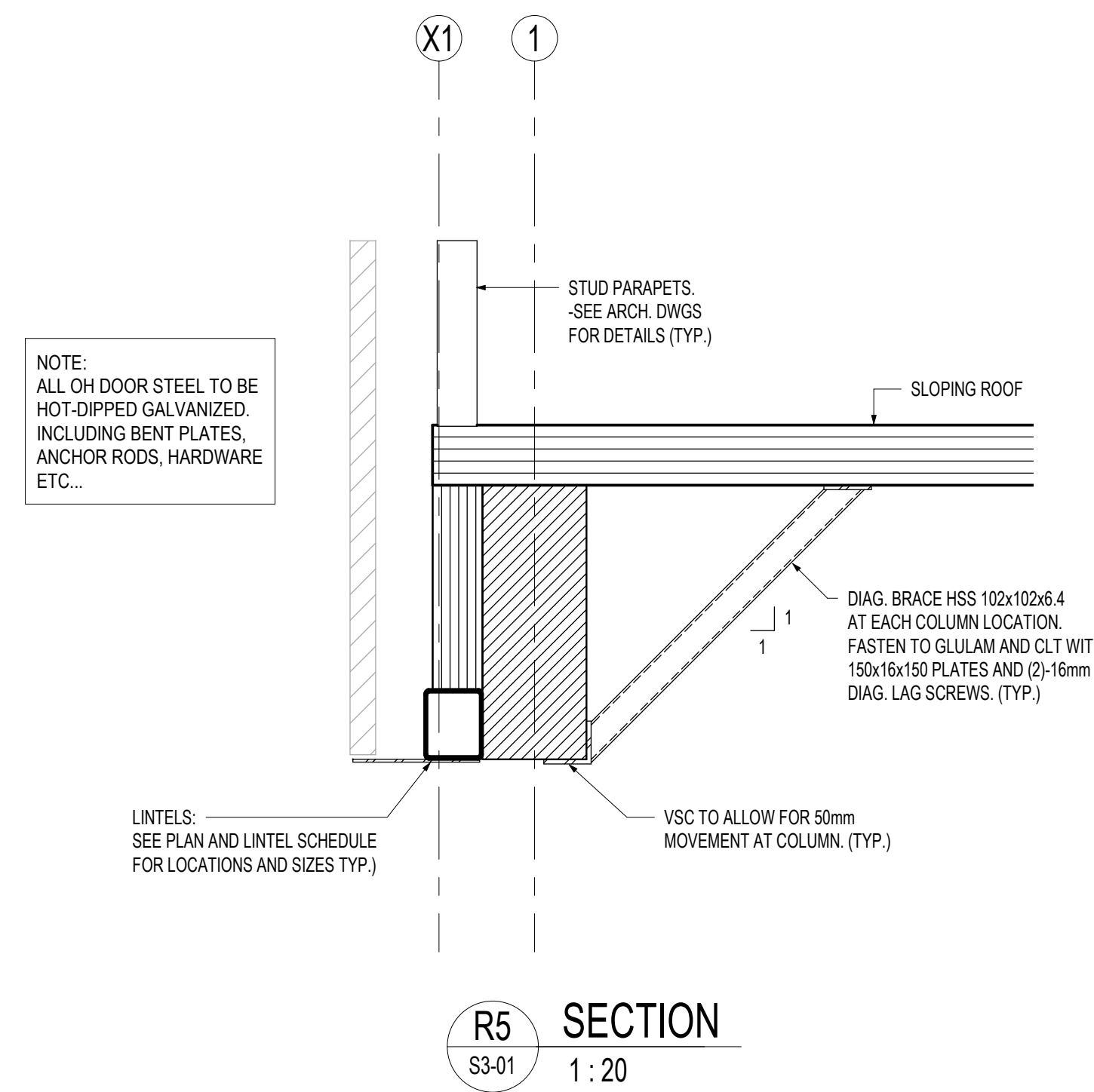
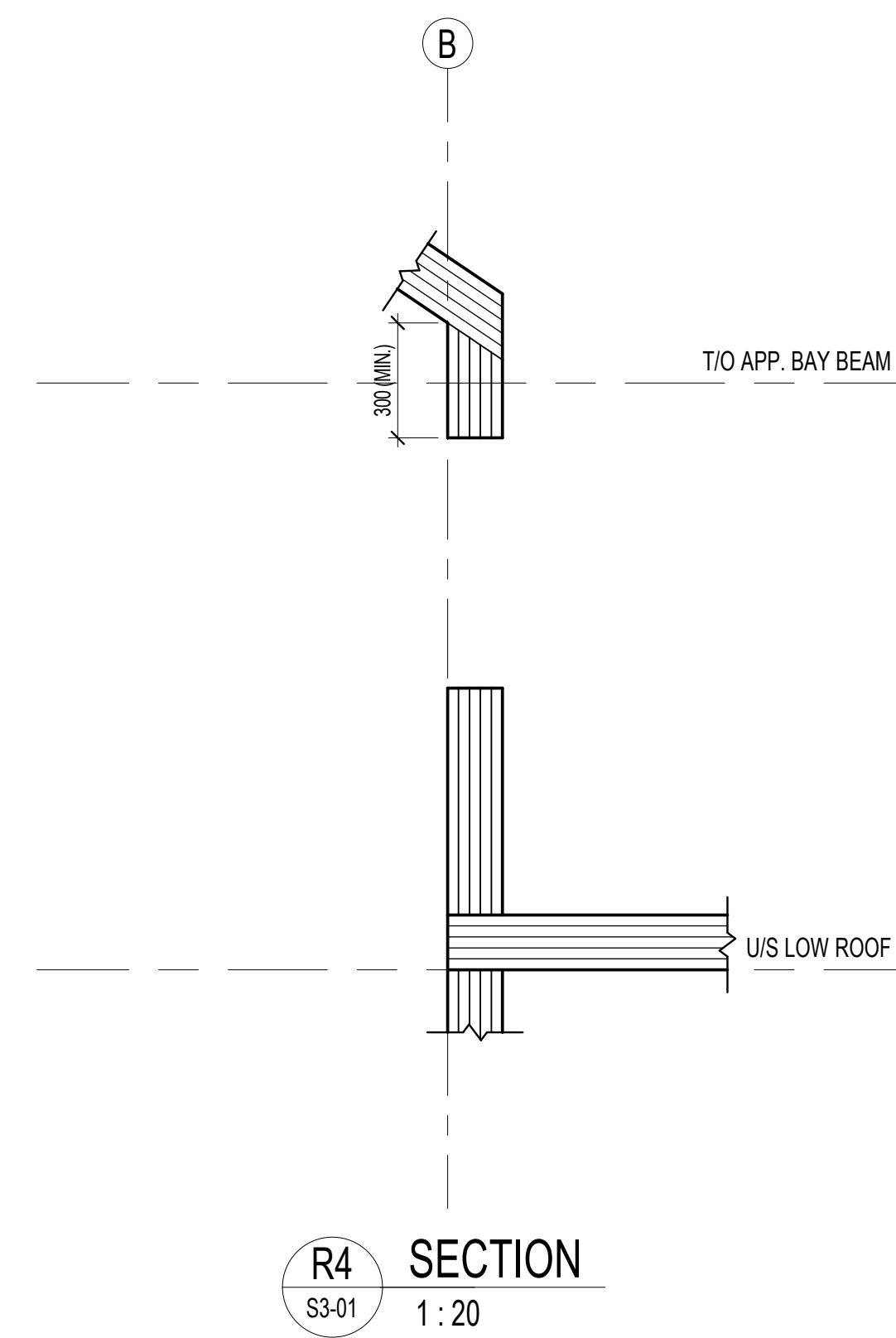
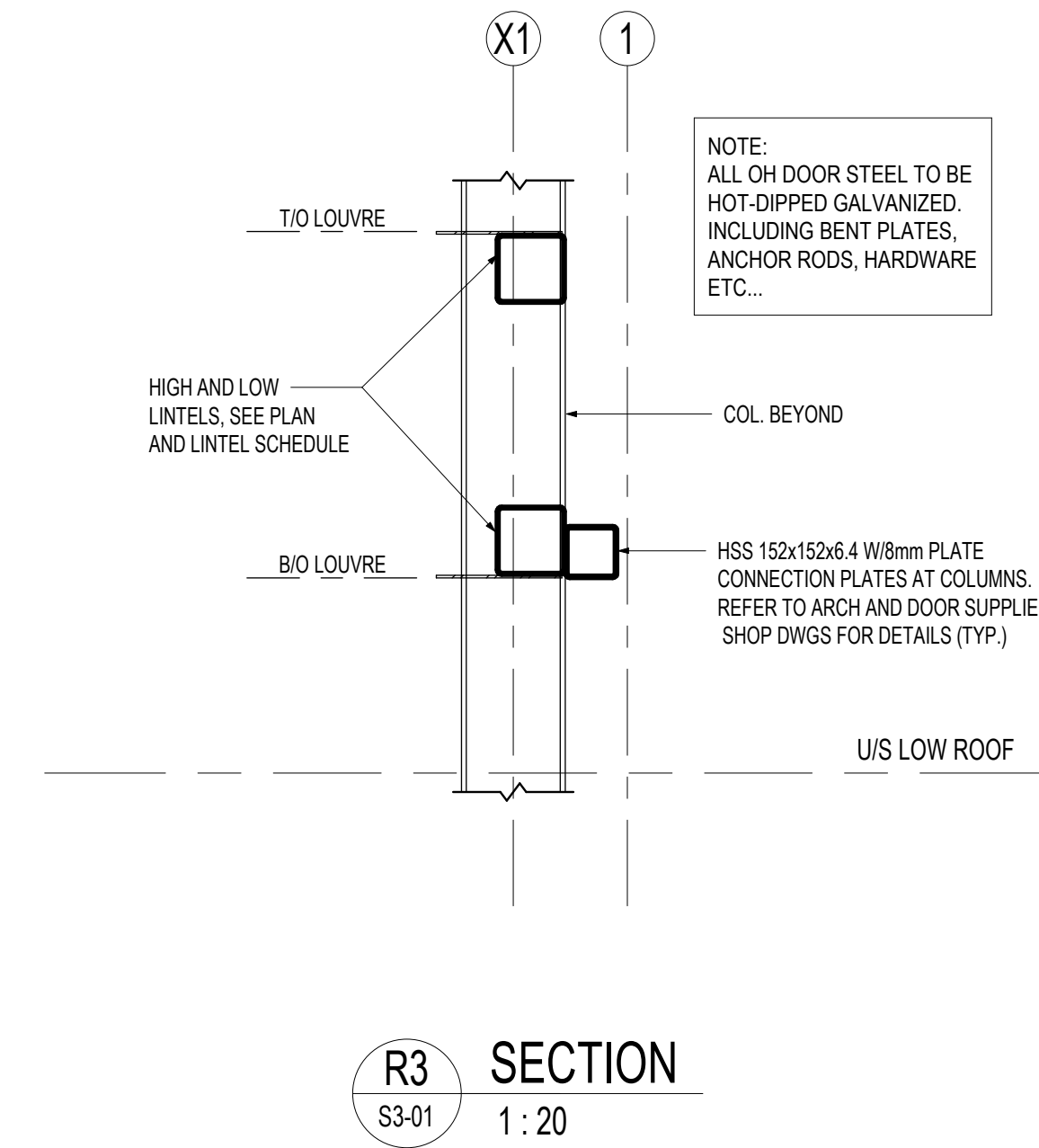
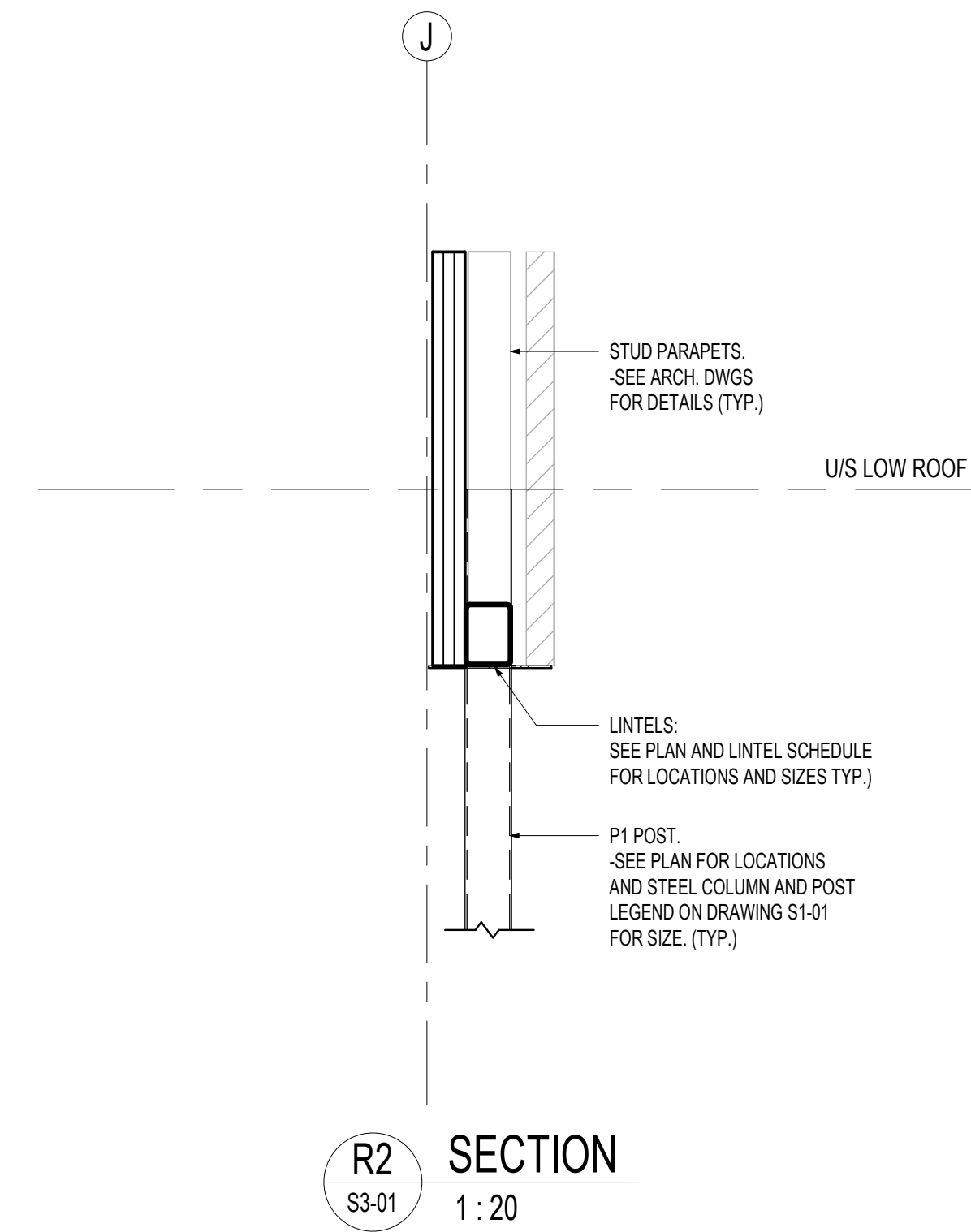
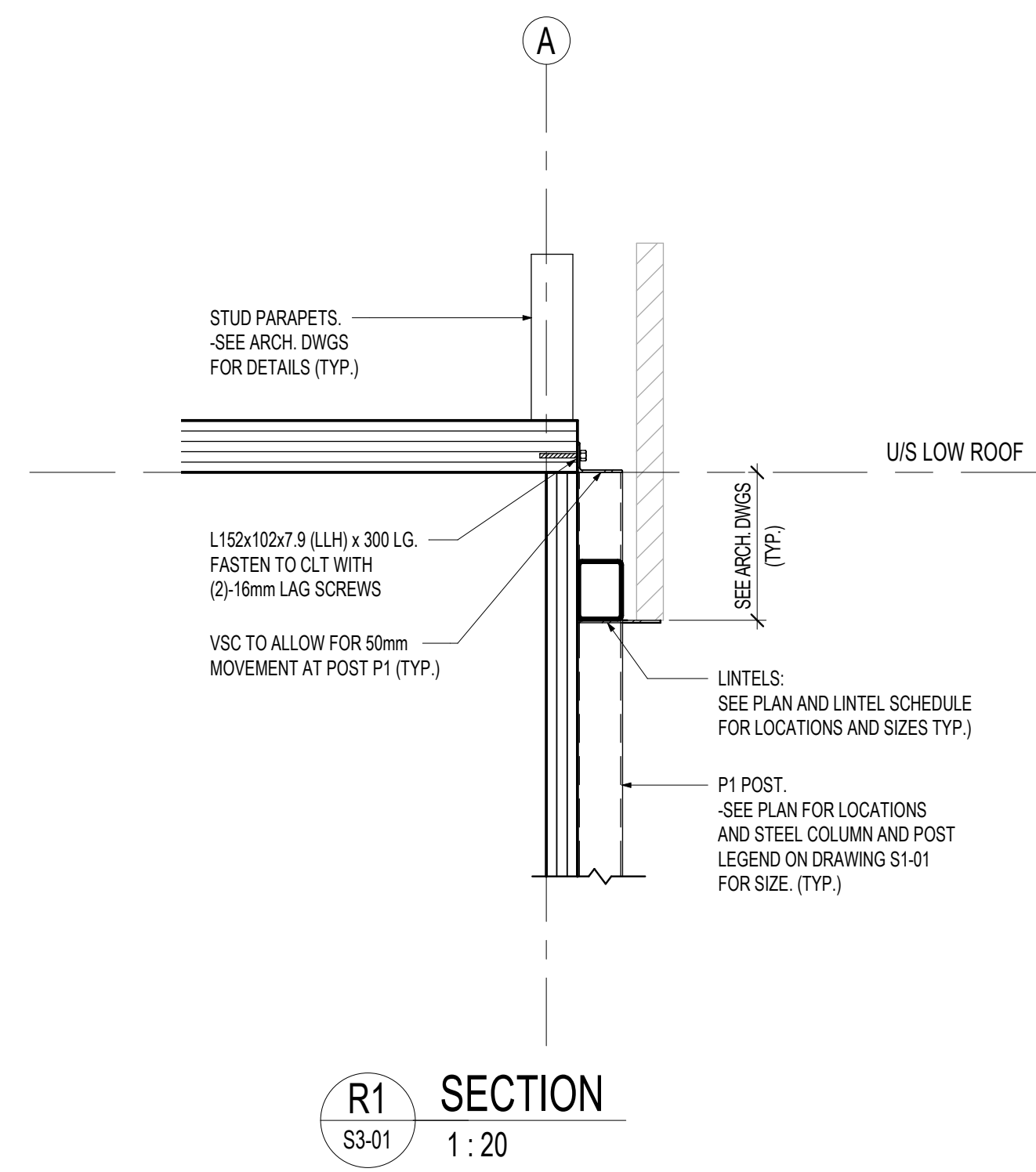


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FOUNDATION SECTIONS

ORIENTATION

DATE: SEPT. 2024
SCALE: As indicated
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CHECKED BY: MM
PROJECT NO.: 20210932
DRAWING NO.: S2-03
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PROJECT:
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 9511 WESTON ROAD, VAUGHAN



DWG TITLE
ROOF SECTIONS

ORIENTATION

DATE	SEPT. 2024	
SCALE	DRAWN BY	CHECKED BY
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DWG STATUS:	IFC	
PROJECT No.	20210932	
DRAWING No.	REVISION	
S3-01	4	

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STANDARD ABBREVIATIONS

ADJ -Adjustable	ADJ -Adjustable	H (HOR) -Horizontal	S -Standard Beam
AIFB -Asphalt Impregnated Fibre Board	ADJ -Adjustable	HEF -Horizontal Each Face	SDF -Step Down Footing
ALT -Alternate	HIF -Horizontal Inside Face	HOF -Horizontal Outside Face	SDL -Superimposed Dead Load
ARCH -Architectural	HSC -Horizontal Slotted Connection	HSS -Hollow Structural Section	SECT -Section
A ROD (R) -Anchor Rod	IF -Inside Face	INT -Interior	SL -Slab
ASL -Accumulated Snow Loading	INV -Invert	JT -Joint	SQ -Square
B (BOT) -Bottom	LB -Pounds	L -Angle	SOG -Slab on Grade
BEV -Bottom Each Way	LG -Long	LL -Live Load / Lower Layer	S.P.F. -Spruce/Pine/Fir
BLD -Building	LLH -Long Leg Horizontal	LLV -Long Leg Vertical	SPEC -Specifications
BL -Bottom Lower Layer	LLV -Long Leg Vertical	LSSJ -Long Span Steel Joists	ST -Steel
BM -Beam	LVL -Laminated Veneer Lumber	COL -Column	STD -Standard
BML -Bottom Middle Layer	m -Metre	COMP -Compressible	STR -Straight
BNT -Base Nominal Thickness	mm -Millimetre	CONC -Concrete	STRUCT -Structural
B.O.F. -Bottom of Footing	mm (M) -Moment	CONST -Construction	T -Top
BP -Baseplate	MPa -Mega Pascals	CONST JT (CJT) -Construction Joint	TEMP -Temperature
BSMT -Basement	MUL -Middle Upper Layer	CONT (CONTIN) -Continuous	TI -Tie Joist
BUL -Bottom Upper Layer	N -Newton	CW -Complete With	TLL -Top Lower Layer
C -Standard Channel	N-S -North-South	D FIR -Douglas Fir	TML -Top Middle Layer
CA -Column Above	NF -Near Face	DET -Detail	TOD -Top of Deck
CANT -Cantilever	NIC -Not in Contact	DIAG -Diagonal	T.O.F. -Top of Footing
C/C (c/c) -Centre to Centre	NTS -Not to Scale	Ø (DIA) -Diameter	T.S. -Top of Slab
CJ -Control Joint	OWSJ -Open Web Steel Joist	DM -Dimension	TOST -Top of Steel
CL -Centreline	Pa -Pascal	DJ -Double Joint	TSF -Tons per Square Foot
CL -Column	PC -Precast	DL -Dead Load	TUL -Top Upper Layer
COL -Column	PL -Plate	DO -Ditto	Typ -Typical
COMP -Compressible	PLF -Pounds per Lineal Foot	DWG -Drawing	
CONC -Concrete	PREL -Preliminary	DWL -Dowel	
CONST -Construction	PROJ -Projection	DT -Double Tee	
CONST JT (CJT) -Construction Joint	PSF -Pounds per Square Foot	E-W -East-West	
CONT (CONTIN) -Continuous	PSI -Pounds per Square Inch	EA -Each	
CW -Complete With	PSL -Parallel Strand Lumber	EE -Each End	
	PT -Pressure Treated	EF -Each Face	
	R -Reaction	ELECT -Electrical	
	RAD -Radius	ELEV (EL) -Elevation / Elevator	
	REF -Reference	EQ -Equal	
	REIN -Reinforcing	ES -Each Side	
	REQD -Required	EW -Each Way	
	REV -Revision/Revised	EXIST -Existing	
	RF -Factored Vertical Reaction	EXP. JT. -Expansion Joint	
	RWD -Reinforced With	EXT -Exterior	
		FDN -Foundation	
		FF -Far Face	
		FIN -Finished	
		FL -Floor	
		FMC -Full Moment Connection	
		FT -Foot / Feet	
		FTG -Footing	
		GA -Gauge	
		GALV -Galvanized	
		GEN -General	

STANDARD LAP ABBREVIATIONS

CLS -Compression Lap Splice	CDL -Compression Development Length
HEL -Hook Embedment Length	TLS -Tension Lap Splice
TDL -Tension Development Length	

GENERAL NOTES

- GENERAL**
 - DESIGN AND CONSTRUCTION IS TO CONFORM TO THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE AND ANY APPLICABLE REQUIREMENTS OR BY-LAW OF THE AUTHORITY HAVING JURISDICTION. REFER ALSO TO TYPICAL DETAILS, NOTES UNDER PLANS AND SCHEDULES ON THE STRUCTURAL DRAWINGS, AND TO THE SPECIFICATION. ALL CODES, MANUALS, STANDARDS AND SPECIFICATIONS REFERRED TO SHALL BE THE SPECIFIC EDITION REFERENCED IN APPLICABLE BUILDING CODE INCLUDING ALL REVISIONS AND ADDENDA.
 - ALL DIMENSIONS, OTHER THAN PURELY STRUCTURAL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE CHECKED AGAINST THE ARCHITECTURAL DRAWINGS AND ANY INCONSISTENCIES REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. STRUCTURAL DRAWINGS MUST NOT BE SCALE.
 - REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS, TRENCHES, PITS, SUMP, EQUIPMENT, SLEEVES, DEPRESSIONS, GROOVES AND CHAMFERS NOT INDICATED ON THE STRUCTURAL DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE, THE ABOVE ITEMS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE INDICATED ONLY APPROXIMATELY AS TO SIZE AND LOCATION.
 - UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PROVISION HAS BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION. THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL SUCH MEASURES. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET PILING OR OTHER TEMPORARY SUPPORTS OF SAFEGUARD ALL EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR CONSULTANTS REVIEW.
- SHOP DRAWINGS, PLACING DRAWINGS AND BAR LISTS**
 - FOR ALL STRUCTURAL COMPONENTS SHOWN ON THE STRUCTURAL DRAWINGS, SUBMIT COPIES OF SHOP DRAWINGS AS DIRECTED FOR REVIEW BY THE STRUCTURAL CONSULTANT. SHOP DRAWINGS TO SHOW COMPLETE INFORMATION FOR THE FABRICATION AND ERECTION OF THE STRUCTURAL COMPONENTS.
 - REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL CONSULTANT IS ONLY TO ASSESS THAT THE SUBMITTED SHOP DRAWINGS REFLECT THE INTENT OF THE STRUCTURAL DESIGN.
 - REVIEW BY THE STRUCTURAL CONSULTANT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR SEEING THAT THE WORK IS COMPLETELY ACCURATE AND IN CONFORMITY WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- INSPECTION AND TESTING**
 - A SOILS CONSULTANT AND AN INDEPENDENT INSPECTION AND TESTING COMPANY ARE TO BE ENGAGED TO CARRY OUT THE FOLLOWING SERVICES:
 - BEARING SOIL - REFER TO NOTES ON STRUCTURAL DRAWINGS AND ALSO TO THE SOIL REPORT.
 - FILL UNDER SLAB ON GRADE - CONFIRM THAT FILL MATERIAL USED IS SATISFACTORY AND THAT THE REQUIRED DEGREE OF COMPACTION HAS BEEN ATTAINED.
 - CAST-IN-PLACE AND PRECAST CONCRETE - ROUTINE INSPECTION OF MATERIALS, INCLUDING SLUMP, CYLINDER AND AIR ENTRAINMENT TESTS AND REINFORCING ROD TESTS WHEN REQUIRED OR DIRECTED IN ACCORDANCE WITH CANCSA A23.2.
 - THE PROJECT SUPERINTENDENT IS TO ADVISE THE STRUCTURAL CONSULTANT A MINIMUM OF 24 HOURS IN ADVANCE OF A CONCRETE POUR FOR A REVIEW OF PREPARATIONS.
 - STRUCTURAL STEEL AND OWSJ - ROUTINE SHOP AND FIELD INSPECTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CSA S16.
 - STEEL DECK - SEE STEEL DECK NOTES.
 - MASONRY - WHEN REQUIRED OR DIRECTED, CONCRETE BLOCKS SHALL BE TESTED IN ACCORDANCE WITH ASTM C140 BRICKS IN ACCORDANCE WITH CANCSA A82. AND MORTAR AND/OR GROUT IN ACCORDANCE WITH CSA A179.
 - ALL INSPECTION AND TESTING SERVICES ARE TO BE PERFORMED BY COMPANIES CERTIFIED BY THE CANADIAN STANDARDS ASSOCIATION AND FOR WELDING, INSPECTORS ARE TO BE CERTIFIED BY THE CANADIAN WELDING BUREAU.
- FOUNDATIONS**
 - REFER TO NOTES UNDER FOUNDATION PLANS. ALL EXTERIOR FOOTINGS OR OTHER FOOTINGS EXPOSED TO FREEZING IN THE FINISHED BUILDING SHALL BE FOUND AT A MINIMUM OF 1200mm (4'-0") BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. FOOTINGS EXPOSED TO FROST ACTION DURING CONSTRUCTION SHALL BE PROTECTED BY A MINIMUM OF 1200mm (4'-0") OF EARTH OR ITS EQUIVALENT SUFFICIENT TO PREVENT FREEZING.
 - THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 1 IN A RUN OF 10. MAXIMUM STEP APPROX. 500mm (2'-0").
 - PIER DEPTHS AND FOOTING ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THE STRUCTURAL DRAWINGS.
 - IF ACTUAL JOB SITE OR SOIL CONDITIONS VARY FROM THOSE ASSUMED, THEN WRITTEN DIRECTIONS MUST BE OBTAINED FROM THE STRUCTURAL CONSULTANT BEFORE PROCEEDING WITH THE WORK.
 - KEEP EXCAVATIONS CONTINUOUSLY DRY BEFORE CONCRETE IS PLACED. IF THE SOIL IS SOFTENED BY WATER, THE EXCAVATION SHALL BE EXTENDED BELOW THE SOFTENED MATERIAL AND THE BOTTOM OF THE FOOTINGS LOWERED TO SUIT.
- BACKFILLING AND COMPACTION**
 - SLABS ON-GRADE AND ALL STRUCTURAL ELEMENTS FRAMING INTO WALLS WHICH RETAIN EARTH MUST BE IN PLACE BEFORE BACKFILLING.
 - AT FOUNDATION WALLS WITH GRADE BOTH SIDES, UNLESS ADEQUATELY SHORED, BACKFILL AND COMPACT EACH SIDE OF WALL SIMULTANEOUSLY.
 - UNDER SLAB ON-GRADE, REMOVE SOFT SPOTS, ORGANIC AND FOREIGN MATTER IN THE SUB-GRADE. (WHERE SUB-GRADE CONSISTS OF COMPACTED FILL, REFER TO SPECIFIC NOTES ON THE DRAWINGS).
 - BACKFILL UNDER SLAB ON-GRADE, IN FOOTING EXCAVATIONS AND IN TRENCHES ONLY WITH APPROVED MATERIAL. UNLESS SPECIFICALLY NOTED OTHERWISE, BACKFILLING SHALL BE CARRIED OUT IN MAXIMUM OF 200mm (8") THICK LIFTS OF LOOSE FILL EACH COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
 - UNLESS OTHERWISE NOTED IN GEOTECHNICAL REPORT, PROVIDE IMMEDIATELY UNDER SLABS ON-GRADE A MINIMUM OF 200mm (8") OF COMPACTED (NFC) GRANULAR 'B' MATERIAL. COMPACTION TO ACHIEVE A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.

CAST-IN-PLACE CONCRETE NOTES

- GENERAL**
 - PROVIDE ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO CARRY OUT THE WORK.
 - REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND SCHEDULES, TYPICAL DETAILS AND SPECIFICATION.
- PRODUCTS**
 - PORTLAND CEMENT, WATER AND AGGREGATES SHALL CONFORM TO CSA STANDARD A23.1.
 - PROVIDE AN APPROVED WATER REDUCING ADDITIVE IN CONCRETE. PROVIDE AN APPROVED AIR ENTRAINING ADDITIVE IN ALL CONCRETE WHICH WILL BE EXPOSED TO A FREEZE/THAW CYCLE AND/OR THE ACTION OF DE-ICING SALT. ADMIXTURES SHALL CONFORM TO CSA STANDARD A23.1.
 - FORMWORK SHALL CONFORM TO CSA STANDARD A23.1 AND CSA STANDARD S289.1 AND FALSEWORK SHALL CONFORM TO CSA S289.1.
 - IF SO INSTRUCTED, THE DESIGNS FOR THE FORMWORK SHALL BE SUBMITTED FOR REVIEW BEFORE CONSTRUCTION. FORMWORK DRAWINGS AND DESIGN SHALL BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER.
 - PROVIDE SLAB AND BEAM FORMS WITH AN UPWARD CAMBER AS INDICATED ON PLANS THIS $\frac{1}{1000}$ WHERE CAMBERS ARE NOT NOTED ON PLANS, CAMBER SLABS AND BEAMS FOR SPAN/SPAN AT INTERIOR BAYS, AND CANTILEVER LENGTH/250 AT CANTILEVER. CAMBER BOTH THE UNDERSIDE AND TOP OF CONCRETE IN A PARABOLIC PROFILE, WHILE MAINTAINING THE INDICATED STRUCTURAL THICKNESS OF MEMBERS.
 - PROVIDE STANDARD ADJUSTABLE MASONRY ANCHOR SLOTS FOR ALL MASONRY FACING OR ABUTTING CONCRETE FACES.
 - PROVIDE AND/OR INSTALL STANDARD ADJUSTABLE INSERTS AND ALL OTHER CAST-IN INSERTS AS REQUIRED BY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATION.
 - REINFORCING STEEL UNLESS SPECIFICALLY NOTED, SHALL BE DEFORMED BARS CONFORMING TO CANCSA -G30.19-M GRADE 400 (S8000 PSI), WELDED WIRE FABRIC TO BE SUPPLIED IN FLAT SHEETS ONLY, UNLESS APPROVED OTHERWISE.
 - REINFORCING SHALL BE DETAILED, BENT, PLACED AND SUPPORTED TO CONFORM TO A23.1 AND THE MANUAL OF STANDARD PRACTICE PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF CANADA.
 - DRY-PACK GROUT TO BE 1 PART PORTLAND CEMENT TO 1 1/2 PARTS SAND TO 2 PARTS OF 8mm FEA GRAVEL WITH ONLY SUFFICIENT WATER TO DAMPEN VACUUM. COMPRESSIVE STRENGTH 50MPa AT 28 DAYS.
 - NON-SHRINK GROUT TO BE AN APPROVED, PRE-MIXED PROPRIETARY PRODUCT.
 - PROVIDE APPROVED EXTRUDED PVC WATERSTOPS OF SIZE AND STYLE INDICATED, WITH PRE-WELDED CORNERS AND INTERSECTIONS. SEE ALSO TYPICAL DETAILS.
 - CURING AND SEALING COMPOUNDS WHERE APPROVED FOR USE TO CONFORM TO ASTM STANDARD C309. GENERALLY ALL CONCRETE SURFACES ARE TO BE SEALED UNLESS NOTED OTHERWISE. COMPOUNDS ARE TO BE COMPATIBLE WITH APPLIED FINISHES.
 - SHEAR REINFORCEMENT AT SLAB CONNECTION AS SHOWN ON DRAWINGS AND DETAILS. SHALL BE STUDBAR(S) AS MANUFACTURED BY DECONB. THE COMPLETE AND FINISHED STUDBAR(S) SHALL BE ICC ES EVALUATED AND WELDING SHALL TAKE PLACE IN A ICC ES APPROVED AND AUDITED FACILITY. STUDBAR(S) SHALL CONFORM TO THE LATEST UPDATE OF ASTM A1044.
- EXECUTION**
 - MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE @ 28 DAYS SHALL BE AS NOTED ON THE DRAWINGS (20MPa MINIMUM).
 - SLUMP AT THE POINT OF DISCHARGE SHALL BE CONSISTENT AT 80 mm \pm 30mm (σ \leq 1.0") UNLESS NOTED OTHERWISE. GREATER SLUMPS ARE NOT ACCEPTABLE.
 - CONCRETE MIXING, TRANSPORTATION, HANDLING AND PLACING SHALL CONFORM TO CSA STANDARD A23.1.
 - CONSTRUCTION JOINTS FOR WALLS ARE BASED UPON VERTICAL JOINTS AT A MAXIMUM SPACING OF 1000mm (30'-0") UNLESS CONTROL JOINTS ARE PROVIDED AS PER DETAIL G740D. TOTAL LENGTH OF POUR TO BE DISCUSSED WITH ENGINEER PRIOR TO PROCEEDING.
 - CONSTRUCTION JOINTS FOR WALLS, SLABS, AND BEAMS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE CONSTRUCTION. GENERALLY JOINTS IN SLABS SHALL BE AT RIGHT ANGLES TO THE SPANS, AT MID-SPAN IF POSSIBLE AND CLEAR OF SUPPORTS AND POINT LOADS.
 - INSERTS, FRAME-OUTS, SLEEVES, BRACKETS, CONDUITS AND FASTENING DEVICES, SHALL BE INSTALLED AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS IN A MANNER THAT SHALL NOT IMPAIR THE STRUCTURAL STRENGTH OF THE SYSTEM, BE SO INSTALLED THAT THEY SHALL NOT REQUIRE THE CUTTING, BENDING, OR REMOVAL OF THE REINFORCING OTHER THAN AS SHOWN ON THE TYPICAL DETAILS.
 - ELECTRICAL CONDUIT SHALL NOT PASS THROUGH A COLUMN, SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 SLAB THICKNESS OR WALL OR BEAM IN WHICH IT IS EMBEDDED, SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTRE UNLESS APPROVED AND HAVE A MINIMUM CONCRETE COVER OF 25 mm (1") AND UNLESS SPECIFICALLY PERMITTED OTHERWISE, SHALL NOT RUN HORIZONTALLY IN A CONCRETE WALL.
 - OPENINGS AND DRIVEN FASTENERS REQUIRED IN THE CONCRETE AFTER THE CONCRETE IS PLACED SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE PROCEEDING.
 - FINISHING: REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FINISH TO EXPOSED CONCRETE. ALL HONEYCOMBING SHALL BE CUT OUT AND FILLED. FLOOR FINISHES SHALL BE AS REQUIRED BY THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND SHALL CONFORM TO CSA STANDARD A23.1.
 - TOLERANCES FOR PLACING STRUCTURAL CONCRETE, REINFORCING STEEL, CAST-IN HARDWARE AND FOR FLOOR AND ROOF FINISHES SHALL BE AS SPECIFIED IN CSA STANDARD A23.1.
 - MINIMUM REINFORCING FOR ANY CONCRETE WALL TO BE AS SHOWN ON TYPICAL DETAIL FOR CONCRETE WALLS.
 - MINIMUM REINFORCING FOR ANY SUSPENDED SLAB SHALL BE TEMPERATURE BARS BOTTOM EACH WAY 10M @ 400 (16") DOUELS 600x600 (2'-0" x 2'-0") TOP AROUND PERIMETER. REFER TO TYPICAL DETAIL OF ONE WAY SLABS.
 - PERFORM SURVEYS OF SLABS AS INDICATED IN SPECIFICATIONS.

CAST-IN-PLACE CONCRETE NOTES

- GENERAL REQUIREMENTS FOR CUTTING AND DRILLING INTO CONCRETE**
 - DO NOT DRILL INTO, CORE THROUGH, SAW-CUT OR CHIP THE CONCRETE STRUCTURE WITHOUT WRITTEN AUTHORIZATION BY THE STRUCTURAL CONSULTANT.
 - UNLESS NOTED OTHERWISE, PRIOR TO CUTTING, CORING OR DRILLING INTO THE CONCRETE STRUCTURE, LOCATE EXISTING CONCRETE REINFORCEMENT AND EMBEDDED SERVICES AT THAT LOCATION USING SUITABLE SCANNING DEVICE (I.E. X-RAYS, GROUND PENETRATION RADAR (GPR), LOCAL CHIPPING OF SLAB - ONLY WHERE APPROVED BY THE STRUCTURAL CONSULTANT, ETC.) AS AUTHORIZED BY PROPERTY MANAGER IF APPLICABLE.
 - GPR SCANNING MUST BE DONE BY TRAINED TECHNICIANS WITH AT LEAST 5 YEARS OF EXPERIENCE AS SUCH.
 - GPR SCANNING DEVICES MUST BE CAPABLE OF ACCURATELY LOCATING REBAR IN A CONCRETE SLAB TO A MINIMUM DEPTH OF 300 mm. THIN A HORIZONTAL TOLERANCE OF + - 25 mm AND A VERTICAL (DEPTH) TOLERANCE OF THE LARGER OF + - 25 mm OR + - 15% OF THE REBAR DEPTH.
 - AFTER ALL THE EXISTING REINFORCEMENT AND SERVICES HAVE BEEN LOCATED, NOTIFY THE STRUCTURAL CONSULTANT, WHO WILL REVIEW AND APPROVE THE PROPOSED LOCATION OF OPENINGS, CORES OR DRILLED HOLES. MAKE ANY NECESSARY ADJUSTMENTS TO THE HOLE LOCATIONS AS DIRECTED BY THE STRUCTURAL CONSULTANT.
 - THE REVIEW BY THE STRUCTURAL CONSULTANT IS LIMITED ONLY TO THE LOCATION OF THE PROPOSED CORES OR DRILLED HOLES THROUGH THE EXISTING STRUCTURE AND IT IS BASED ON THE ASSUMPTION THAT THE X-RAY OR SCAN RESULTS LOCATING SLAB REINFORCEMENT AND EMBEDDED SERVICES ARE COMPLETE AND ACCURATE. STEPHENSON ENGINEERING LTD. TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE X-RAY OR SCAN RESULTS.
 - CORE DRILL NIP HOLES FOR PIPES TO A DIAMETER NOT LARGER THAN THE OUTSIDE PIPE DIAMETER PLUS 25MM. DO NOT CUT EXISTING REINFORCEMENT OR SERVICES WITHOUT PRIOR APPROVAL OF THE CONSULTANT.
 - WHERE RECTANGULAR OPENINGS ARE TO BE CUT, PRE-DRILL THE CORNERS USING A 100 MM DIAMETER CORE DRILL OR DRILL A SERIES OF HOLES TO PREVENT OVER CUTTING OF THE CORNERS.
- QUALITY CONTROL**
 - FOR INSPECTION AND TESTING, SEE GENERAL NOTES AND/OR SPECIFICATION.

APPROVAL STAMP

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ISSUE OR REVISION		DATE
NO. ISSUED FOR	ISSUED FOR PERMIT	SEPT/18/23
2	ISSUED FOR TENDER	DEC/01/23
4	ISSUED FOR CONSTRUCTION	SEPT/09/09

PROJECT: CITY OF VAUGHAN FIRE STATION 7-12
 CLIENT: VAUGHAN
 2235 Sheppard Ave. E. Suite No. 1100
 Toronto, ON M2J 6B6
 Stephenson Engineering, a company of Salas O'Brien
 PROFESSIONAL SEAL: M.R. MARTILLA 100164027
 DWG TITLE: GENERAL NOTES

STRUCTURAL STEEL NOTES

- GENERAL**
 - STRUCTURAL STEEL DESIGN DETAILS AND CONNECTIONS SHALL CONFORM TO CSA STANDARD S16 AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER EXPERIENCED IN THIS TYPE OF WORK.
 - REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND TO THE SPECIFICATION.
 - WELDING SHALL CONFORM TO CSA STANDARD W59 AND BE PERFORMED BY A FABRICATOR CERTIFIED TO CSA W47.1.
 - BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF FACTORED VERTICAL SHEAR FORCE OF 50% OF THE BEAM SHEAR CAPACITY, UNLESS OTHERWISE NOTED, AND IN NO CASE BE LESS THAN THE LOADS SHOWN ON OR IMPLIED BY THE DRAWINGS, WHERE SO NOTED CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF TWO BOLTS PER CONNECTION SHALL BE USED.
 - MEMBER CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER FOR FORCES AND MOMENTS INDICATED. SHOP DRAWINGS (AND CALCULATIONS) BEARING THE STAMP AND SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION.
- PRODUCTS**
 - STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA-G40.210/G40.21
 - S SHAPES, PLATES AND RODS - GRADE 300 W
 - HSS SECTIONS - GRADE 350W (CLASS C U N)
 - W/F SHAPES, W/T SHAPES AND W SHAPES, CHANNELS, ANGLES - GRADE 350W
 - BOLTS FOR CONNECTIONS TO CONFORM TO ASTM F1259/1259M, GRADE A325, UNLESS NOTED.
 - ANCHOR RODS FOR BASE PLATES, BEARING PLATES AND WELD PLATES TO CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED.
 - NUTS AND WASHERS TO CONFORM TO ASTM A563 AND ASTM F436.
 - SHEAR STUDS WHERE REQUIRED TO CONFORM TO ASTM A108, WELDING TO CONFORM TO CSA W59.
 - WELDING MATERIALS TO CONFORM TO CSA W48.
 - SURFACE PREPARATION AND PRIMER PAINT FOR STRUCTURAL STEEL MEMBERS INSIDE VAPOUR BARRIER TO CONFORM TO CISCP/CM 173a OR CISCP/MA 2.75 (IF EXPOSED TO VIEW), UNLESS NOTED ON DRAWINGS OR SPECIFICATIONS.
 - HOT DIP GALVANIZING WITH A MINIMUM ZINC COATING OF 600g/m² UNLESS OTHERWISE SPECIFIED.
- EXECUTION**
 - FABRICATION, HANDLING AND ERECTION TO CONFORM TO CAN CSA - S16.
 - PROVIDE A MINIMUM OF 2-12 mm (1/2") DIAMETER BY 250 (10") LONG WALL ANCHORS FOR ALL BEAM AND JOIST WALL PLATES ON MASONRY, OR AN APPROVED EQUAL, UNLESS OTHERWISE NOTED. BEAMS AND JOIST SHOES TO BE WELDED TO BEARING PLATES.
 - PROVIDE ADJUSTABLE ANCHORS TO ALL STEEL TO BE BUILT INTO, ABUTTED BY, OR FACED WITH MASONRY (REFER ALSO TO TYPICAL DETAILS IF SHOWN). SPACING OF ANCHORS TO BE:
 - FOR VERTICAL SPACING: 600 (24") MAX. CENTRES.
 - FOR HORIZONTAL SPACING: 10 TIMES WALL THICKNESS' (MAX. 2000 (6'-8") CENTRES)
 (* NOTE, USE BACK-UP WITH THE THICKNESS ONLY, FOR CAVITY WALLS)
 - WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY (I.E. DOES NOT SUPPORT MASONRY) ANCHORS SHALL PERMIT DIFFERENTIAL VERTICAL MOVEMENT BETWEEN STRUCTURAL MEMBERS AND MASONRY.
 - PROVIDE 1:5 (20% MIN) ANGLE SEATS FOR ALL STEEL DECK AT LOCATIONS WHERE THE CONNECTION TO SUPPORTING FRAMING IS INTERRUPTED. (EG. AT COLUMNS)
 - CLEAN, PREPARE SURFACES AND SHOP PRIME STRUCTURAL STEEL WITH ONE COAT OF SPECIFIED PRIMER PAINT IN ACCORDANCE WITH CANCSA - S16. EXCEPT WHERE MEMBERS ARE TO BE ENCASED IN CONCRETE, OR TO RECEIVE SPRAY APPLIED FIRE PROOFING, FIELD TOUCH-UP BOLTS, WELLS, BURIED OR SCRAPED SURFACES AFTER ERECTION.
 - PROVIDE ALL NECESSARY TEMPORARY BRACING TO KEEP STRUCTURE SAFE AND PLUMB. BRACINGS SHOWN ON STRUCTURAL DRAWINGS IS PERMANENT FOR FINISHED BUILDING ONLY.
 - CO-ORDINATE WITH MECHANICAL AND ELECTRICAL CONSULTANTS AND SUB-TRADES WHOSE WORK MAY AFFECT DETAILING, FABRICATION AND ERECTION OF THE STEEL STRUCTURE.
 - TOLERANCES:
 - VARIATION FROM PLUMB AND LEVEL EXTERIOR COLUMNS, COLUMNS AT ELEVATOR SHAFTS, AND SPANDREL BEAMS INCLUDING ANGLES:
 - 1:1000 MAX. 25 mm (1/8" IN 10'-0" MAX. 1')
 - OTHER PIECES:
 - 1:500 (1/4" IN 10'-0")
 - NO HOLES OTHER THAN THOSE SHOWN ON REVIEWED SHOP DRAWINGS SHALL BE MADE IN ANY STEEL MEMBER WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL CONSULTANT.
- QUALITY CONTROL**
 - AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES, AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
 - SEE SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS.

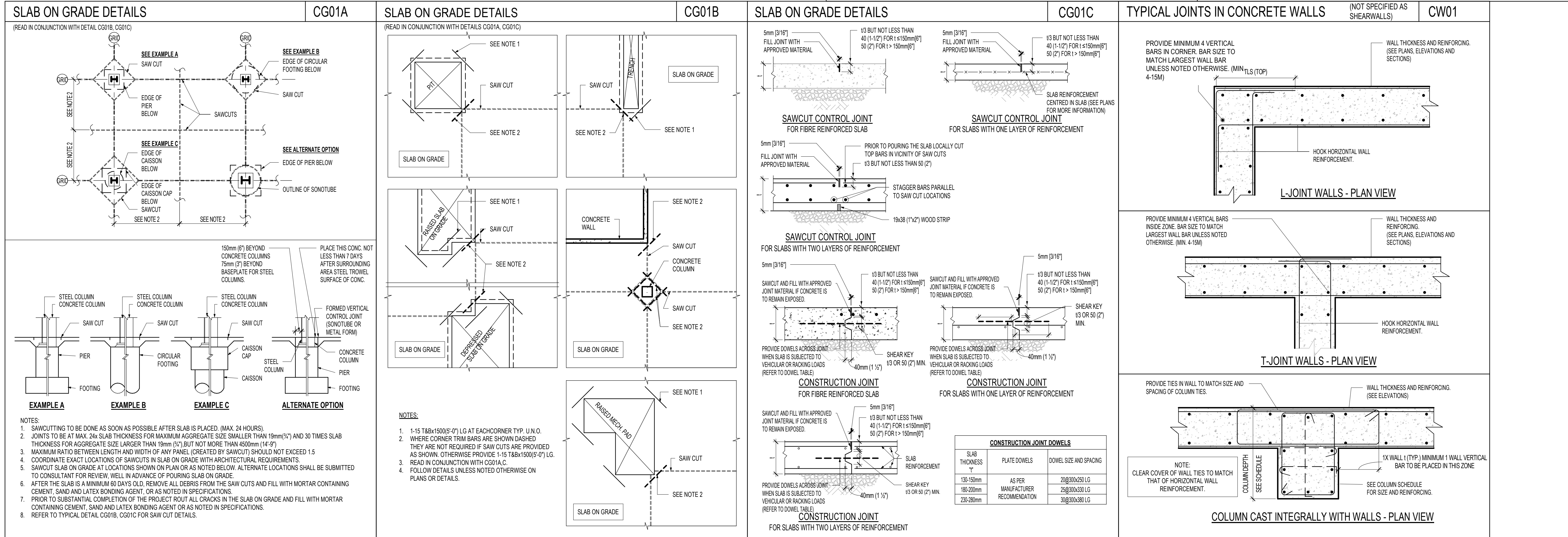
WOOD FRAMING NOTES

- GENERAL**
 - THE FOLLOWING NOTES INDICATE ONLY THE MINIMUM REQUIREMENTS APPLICABLE TO STRUCTURAL WOOD CONSTRUCTION. SEE ALSO ARCHITECTURAL DRAWINGS AND THE SPECIFICATION (IF APPLICABLE) FOR REQUIREMENTS FOR NON-STRUCTURAL WOOD FRAMING.
 - WOOD CONSTRUCTION SHALL CONFORM TO CSA-086 & AND TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.
 - REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS OF AIR SPACES, INSULATION, ROOFING, FLOOR AND WALL FINISHES.
 - DUE TO THE CUSTOMIZED DETAILING AND ENGINEERING CHARACTERISTICS OF THE FRAMING ASSEMBLY, MICROLAM LVL, PARALLAM PSL AND WOOD JOISTS BY TRUSS JOIST MacMillan HAVE BEEN USED AS A BASE AND ARE SHOWN ON THE DRAWINGS. ALTERNATIVE PRODUCTS MAY BE PROPOSED WHEN ACCOMPANIED BY PERTINENT DESIGN CRITERIA AND NO ALTERNATIVE MAY IMPEDE THE BASE BUILDING STRUCTURE. ACCEPTANCE OF ALTERNATIVE PRODUCT SHALL ONLY BE IN WRITING ISSUED SOLELY BY THE ARCHITECT.
- MATERIALS**
 - LUMBER UNLESS OTHERWISE NOTED TO BE SPRUCE-PINE-FIR (SPF) SPECIES, GRADE NO. 2 CONFORMING TO CSA-0141 WITH A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION. LUMBER SHALL BEAR THE GRADING STAMP OF AN AGENCY APPROVED BY THE CANADIAN LUMBER STANDARDS ADMINISTRATION BOARD.
 - COMPLY WITH THE REQUIREMENTS OF ONTARIO BUILDING CODE FOR:
 - SUB-FLOORING - IN ARTICLE 9.23.14
 - ROOF SHEATHING - IN ARTICLE 9.23.15
 - WALL SHEATHING - IN ARTICLE 9.23.16
 (* REFER ALSO TO NOTES & DETAILS ON DRAWINGS AND TO ALL OTHER TYPICAL NOTES.)
 - NAILS, SPIKES, AND STAPLES:
 - TO CSA STANDARD B111; GALVANIZED FOR EXTERIOR WORK, OR HIGHLY HUMID AREAS AND FOR TREATED LUMBER, PLAIN ELSEWHERE.
 - NAILING OF FRAMING UNLESS OTHERWISE NOTED, SHALL CONFORM TO ARTICLE 9.23.3 IN THE ONTARIO BUILDING CODE.
 - ROOF HARDWARE:
 - BOLTS, NUTS, WASHERS, LAGS, PINS, SCREENS, ALL TO BE HOT DIP GALVANIZED.
 - WOOD PRESERVATIVES (PRESSURE TREATED):
 - WHERE REQUIRED TO CONFORM TO CSA-080 SERIES
 - FRAMING ANCHORS:
 - FRAMING ANCHORS, JOIST HANGERS, BEAM HANGERS, POST CAPS, POST ANCHORS, BACK-UP CLIPS AND ANGLES, UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DRAWINGS, ARE ALL TO BE AS MANUFACTURED BY AN APPROVED EQUAL, SIZED TO FIT HAND. ALL ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS UTILIZING "SPECIALLY" NAILS WHERE REQUIRED.
 - SHEATHING - PLYWOOD TO CONFORM TO CSA STANDARD D12, OR D151. WAFERBOARD AND STRANDBOARD TO CONFORM TO CSA-0437 SERIES.
- EXECUTION**
 - STUD WALLS:
 - SEE LOAD BEARING WOOD STUD WALL FRAMING NOTES.
 - NON-LOAD BEARING STUD WALLS TO CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.
 - FLOOR AND ROOF JOISTS:
 - PROVIDE JOISTS OF SIZE, SPACING AND SPAN AS NOTED ON THE STRUCTURAL DRAWINGS. UNLESS OTHERWISE NOTED, JOISTS SHALL BE CONTINUOUS IN ANY 1 SPAN WITH NO SPICE.
 - WHERE JOISTS FRAME INTO THE SIDE OF A STEEL BEAM, JOISTS SHALL BE SUPPORTED ON THE BOTTOM FLANGE OF THE BEAM OR ON NOT LESS THAN 38x65 (2x4) LUMBER BOLTED TO THE WEB WITH MINIMUM 6mm (1/4") DIAMETER BOLTS AT MAXIMUM 600 mm (24") CENTRES.
 - BRIDGING OR BLOCKING:
 - PROVIDE CROSS-BRIDGING OR SOLID BLOCKING OR APPROVED PROPRIETARY METAL STRAPS IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
 - PROVIDE CONTINUOUS WOOD STRAPPING ACROSS BOTTOM OF JOISTS AS SHOWN REQUIRED BY THE ONTARIO BUILDING CODE.
 - SPACING OF BRIDGING TO BE AT 2100 mm (6'-10") MAXIMUM CENTRES.
 - SUB-FLOORING AND ROOF SHEATHING:
 - TO BE TYPE AND THICKNESSES SHOWN ON THE STRUCTURAL DRAWINGS, INSTALLED WITH END JOISTS STAGGERED.
 - AT EDGES OF PANELS, PROVIDE NOT LESS THAN 39mmx39mm (2x2) BLOCKING SECURELY NAILED BETWEEN FRAMING MEMBERS, UNLESS OTHERWISE APPROVED.
 - FOR ROOF SHEATHING PROVIDE AT LEAST 2 mm (1/16") GAP BETWEEN SHEETS.
 - EXTERIOR TYPE PLYWOOD USED AS ROOF AND/OR WALL SHEATHING SHALL BE LEGIBLY IDENTIFIED THAT THE MATERIAL IS OF EXTERIOR TYPE.
 - SUB-FLOORING SHALL BE GLUED AND NAILED TO ALL JOISTS. GLUE TO BE A HIGH SOLIDS, RUBBER CONTACT TYPE SUPPLIED IN CARTRIDGES. USE A CONTINUOUS GLEU BEAD AND RUN A THIN BEAD INTO GROOVES JUST BEFORE INSERTING GROOVES OF T & G PLYWOOD.
 - NAILS TO BE 44 mm (1 3/4") SPIRAL OR RING THREAD AT 600 mm (24") ON CENTRES MAXIMUM.
 - MAKE BUTT JOINTS ON SOLID MATERIAL.

WOOD FRAMING NOTES

- WALL SHEATHING SHALL BE INSTALLED SO THAT ALL ENDS ARE SUPPORTED WITH END JOISTS STAGGERED. A GAP OF NOT LESS THAN 2mm (1/16") SHALL BE LEFT BETWEEN SHEETS OF PLYWOOD, WAFER BOARD OR FIBRE BOARD.
- NOTCHING AND DRILLING:
 - NOT ALLOWED WITHIN THE LIMITATIONS SET OUT IN THE ONTARIO BUILDING CODE.
- BRICK VENEER:
 - UNLESS OTHERWISE NOTED, BRICK VENEER IS TO BE TIED TO WOOD STUDS WITH A MIN. 0.76x22 mm (2Z GAUGE x 7/8") GALVANIZED CORRUGATED STRIP TIES SPACED AT MAX. 400x600 (16"x24") CENTRES, ON EVERY STUD. STRIP TIES TO CONFORM TO CSA-A370.
 - IF BRICK VENEER EXCEEDS 1100mm (36'-0") HIGH, CORRUGATED STRIP TIES ARE NOT TO BE USED. OBTAIN DIRECTIONS BEFORE PROCEEDING.
- LAMINATED VENEER LUMBER (LVL), PARALLEL STRAND LUMBER (PSL), GLUED-LAMINATED TIMBER (GLULAM)
 - SEE NOTE #14 ABOVE. ACCEPTANCE OF ALTERNATIVE PRODUCTS SHALL ONLY BE IN WRITING ISSUED SOLELY BY THE ARCHITECT.
 - BEAMS, LINTELS AND JOISTS SHALL BE AS SUPPLIED BY AN APPROVED MANUFACTURER.
 - WOOD VENEERS & ADHESIVES:
 - SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S STANDARDS AND APPLICABLE CSA STANDARDS.
 - ALL MEMBERS SHALL BEAR IDENTIFICATION MARKS OF THE MANUFACTURER.
- EXECUTION
 - MINIMUM END BEARING SHALL BE 75mm (3") UNLESS NOTED.
 - FOR SINGLE SPANS LVL SHALL NOT BE SPLICED BUT SHALL BE CONTINUOUS BETWEEN SUPPORTS.
 - WHERE INDIVIDUAL MEMBERS ARE BUTTED TOGETHER, JOINTS SHALL OCCUR OVER SUPPORTS, EXCEPT THAT WHERE BEAMS ARE CONTINUOUS OVER MORE THAN ONE SUPPORT, JOINTS MAY BE LOCATED WITHIN 150mm (6") OF THE QUARTER POINTS OF THE CLEAR SPANS. SUCH JOINTS SHALL BE STAGGERED END FOR END.
 - NAILING AND/OR BOLTING:
 - OF MULTI-PLY SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND IN NO CASE LESS THAN 2 ROWS OF 16d (3 1/2") NAILS AT 300mm (12") CENTRES, EACH ROW.
 - NAILS INTO EDGES OF LVL SHALL BE SPACED AT A MINIMUM OF 75mm (3") FOR 8d (2 1/2") NAILS AND 100 (4") FOR 10d (3") NAILS.
 - LVL BEARING ONTO MASONRY OR CONCRETE AT OR BELOW GRADE LEVEL, SHALL BE PRESSURE TREATED (PT) TO PREVENT DECAY OR PROTECTED AT THE BEARING WITH A MIN. OF 0.05 POLYETHYLENE FILM.
 - NOTCHING & DRILLING:
 - PERMITTED ONLY WITH APPROVAL AND WITHIN THE LIMITATIONS SPECIFIED IN THE ONTARIO BUILDING CODE.
- LVL SHALL BE RESTRICTED TO DRY SERVICE LOCATIONS, AND SHALL NOT BE USED DIRECTLY EXPOSED TO WEATHER OR IN HIGH HUMIDITY AREAS WHEN A MOISTURE CONTENT EXCEEDING 19% CAN RESULT.
- GLULAM/TIMBER PRODUCTS SHALL CONFORM TO CSA-086, CSA-0122 AND BE MANUFACTURED IN ACCORDANCE WITH CSA-0177.
- CONNECTIONS TO CONFORM TO CSA-G40.210/G40.21, PRIMED OR GALVANIZED AS NOTED TO CGSB-1.40 OR CSA-0164, WELDING TO CSA-W59 AND W47.1.
- SUBMIT SHOP DRAWINGS AS DIRECTED.
- WOOD JOISTS**
 - SEE NOTE #14 ABOVE.
 - ALL MATERIALS AND ADHESIVES SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S STANDARDS AND APPLICABLE CSA STANDARDS.
- WOOD JOISTS SHALL BE FABRICATED WITH A STRUCTURAL CONNECTION OF THE CHORDS TO THE WEB MATERIAL UTILIZING A PRESSURE GLUED TONGUE AND GROOVE JOINT.
- SHOP DRAWINGS:
 - SHOWING DIMENSIONS, TYPICAL DETAILS, PLANS, INSTALLATION PROCEDURES AND IDENTIFICATION MARKS SHALL BE SUBMITTED FOR REVIEW WHEN REQUESTED. SHOP DRAWINGS TO BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER.
- ALL MEMBERS TO BEAR IDENTIFICATION MARKS OF THE APPROVED MANUFACTURER.
- EXECUTION:
 - MINIMUM END BEARING SHALL BE 75mm (3") UNLESS NOTED.
 - HANDLING, INSTALLATION, ANCHORAGE, BRACING AND BLOCKING OF WOOD I SHALL BE IN ACCORDANCE WITH MANUFACTURER'S UNLESS OTHERWISE APPROVED.
 - HOLES THROUGH WEBS PERMITTED ONLY WITHIN THE LIMITS PERMITTED BY THE MANUFACTURER.
 - NO CUTTING, NOTCHING OR DRILL

TYPICAL CONCRETE COVER TABLE			C01	COMPRESSION-TENSION DEVELOPMENT AND LAP LENGTHS $F_y = 400$ MPa	C02A	TENSION DEVELOPMENT AND LAP SPLICE LENGTHS $F_y = 400$ MPa	C02B	
VERTICAL ELEMENTS	PROJECT SPECIFIC COMMENTS	BAR SIZE	CONCRETE EXPOSURE		NOTES		NOTES	
			NO CHLORIDES WITH FREEZE THAW COVER TO ALL FACES (mm)		1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOWS CLS - COMPRESSION LAP SPLICE CDL - COMPRESSION DEVELOPMENT LENGTH HEL - HOOK EMBEDMENT LENGTH		1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOWS TLS - TENSION LAP SPLICE TDL - TENSION DEVELOPMENT LENGTH	
WALLS	PROJECT SPECIFIC COMMENTS	BAR SIZE	FIRE RATING (I)		COMPRESSION LAP SPLICE AND DEVELOPMENT LENGTHS ($F_y = 400$ MPa)		TENSION LAP SPLICE AND DEVELOPMENT LENGTHS ($F_y = 400$ MPa)	
			<2 HR	3 HR	4 HR	CLL: COMPRESSION LAP SPLICE LENGTH (mm)		TLL: TENSION LAP SPLICE LENGTH (CLASS B) (mm)
HORIZONTAL ELEMENTS	PROJECT SPECIFIC COMMENTS	BAR SIZE	NO CHLORIDES OR FREEZE THAW COVER TO ALL FACES (mm)		UNCOATED BLACK BAR		UNCOATED BLACK BAR	
			FIRE RATING (I)		10M 15M 20M 25M 30M 35M 45M 55M		10M 15M 20M 25M 30M 35M 45M 55M	
BEAMS	PROJECT SPECIFIC COMMENTS	BAR SIZE	TOP COVER (mm)		CDL: COMPRESSION DEVELOPMENT LENGTH (mm)		UNCOATED BLACK BAR	
			BOTTOM & SIDE COVER (mm)		10M 15M 20M 25M 30M 35M 45M 55M		10M 15M 20M 25M 30M 35M 45M 55M	
ELEMENTS EXPOSED TO EARTH			COVER (mm)		NOTES		TDL: TENSION DEVELOPMENT LENGTH (mm) CLASS "A" LAP SPLICE	
PERMANENTLY EXPOSED TO SOIL			GREATER OF 60mm OR 2.0D		1. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED: a. MULTIPLY BY 1.1 (TWO BAR BUNDLES) b. MULTIPLY BY 1.2 (THREE BAR BUNDLES) c. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)		UNCOATED BLACK BAR	
CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL			75		2. FOR EMBEDMENTS ENCLOSED IN SPIRALS, MULTIPLY BY 0.75, BUT NOT LESS THAN 200mm.		10M 15M 20M 25M 30M 35M 45M 55M	
TABLE NOTES					HEL: MINIMUM TENSION EMBEDMENT LENGTH WITH STANDARD HOOK (mm)		UNCOATED BLACK BAR	
1. CONCRETE COVER SHALL BE MEASURED FROM THE DEEPEST POINT OF TEXTURED CONCRETE SURFACE TO THE NEAREST DEFORMATION OF REINFORCEMENT. REINFORCEMENT INCLUDES TIES, STIRRUPS AND MAIN BARS.					10M 15M 20M 25M 30M 35M 45M 55M		10M 15M 20M 25M 30M 35M 45M 55M	
2. FOR FIRE RATING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS					20MPa 250 340 420 560 640 770 940 1210		20MPa 220 310 370 600 570 690 840 1080	
3. ALL LOAD BEARING ELEMENTS (WALLS AND COLUMNS) IMMEDIATELY BELOW A FLOOR ASSEMBLY MUST HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT FOR THE SUPPORTED ASSEMBLY.					25MPa 200 280 340 440 530 630 770 990		25MPa 200 280 340 440 530 630 770 990	



APPROVAL STAMP

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ISSUE OR REVISION

NO.	ISSUED FOR	DATE
1	ISSUED FOR PERMIT	SEPT/18/23
2	ISSUED FOR TENDER	DEC/01/23
4	ISSUED FOR CONSTRUCTION	SEPT/09/20

PROJECT: CITY OF VAUGHAN
 FIRE STATION 7-12
 CLIENT: VAUGHAN
 9511 WESTON ROAD, VAUGHAN

VAUGHAN

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

Salas O'Brien

2235 Sheppard Ave. E. Suite No. 1100
 Toronto, ON M2J 6K6
 Stephenson Engineering, a company of Salas O'Brien

PROFESSIONAL SEAL

24-09-09
 M.R. MARTILLA
 100164027
 ENGINEER OF ONTARIO

DWG TITLE: TYPICAL DETAILS

ORIENTATION:

DATE: SEPT. 2024

SCALE: 1:1

DWG STATUS: IFC

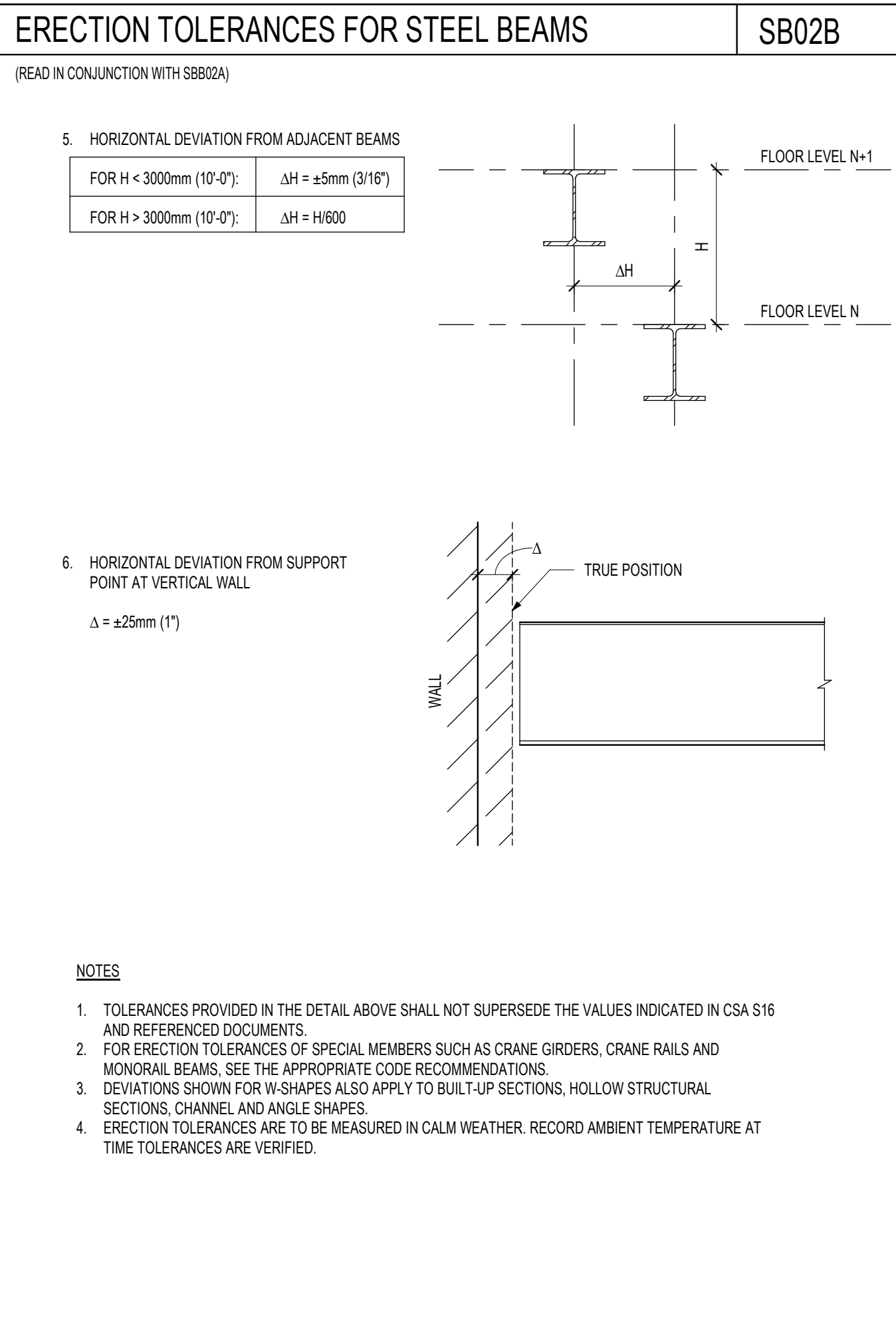
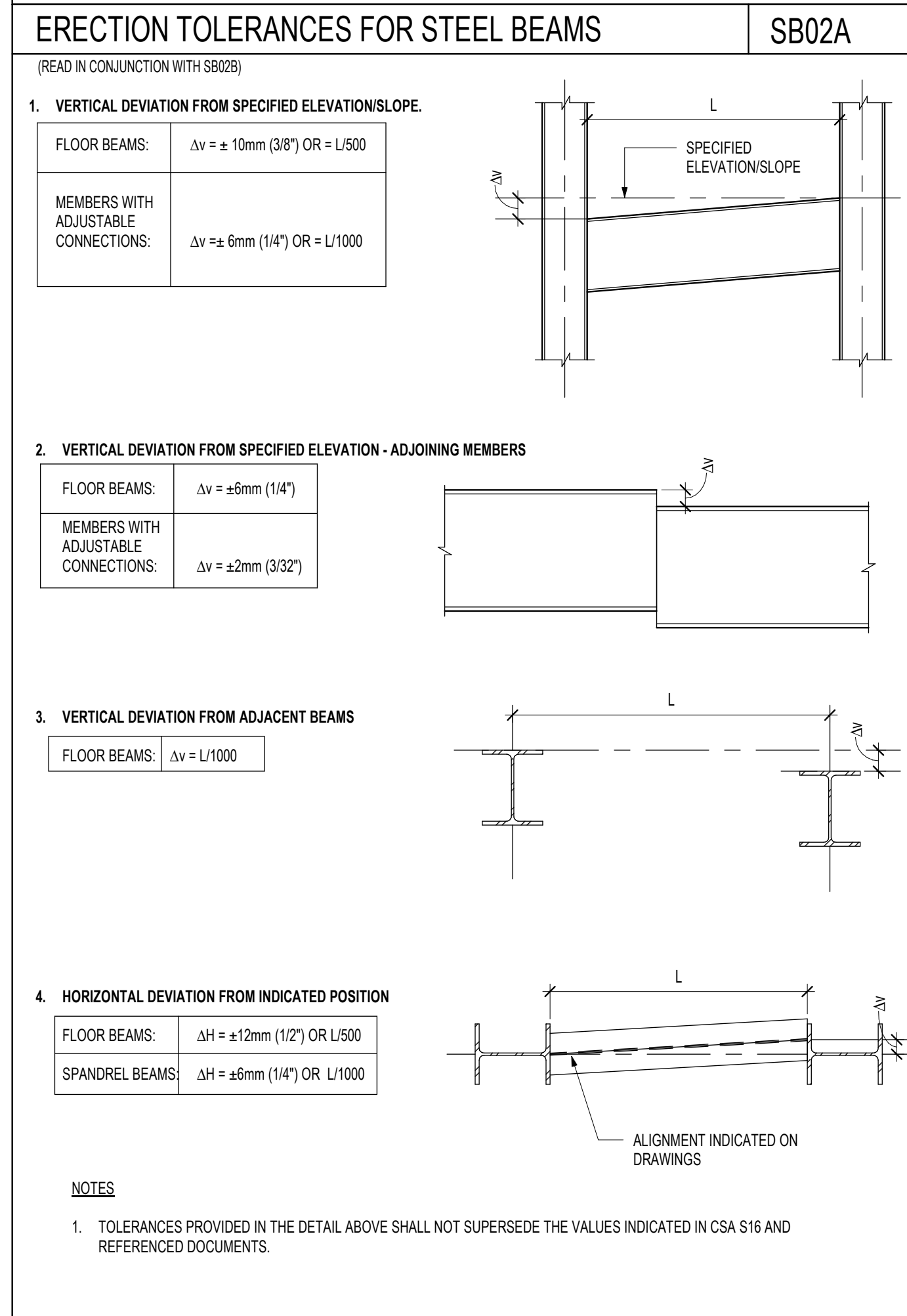
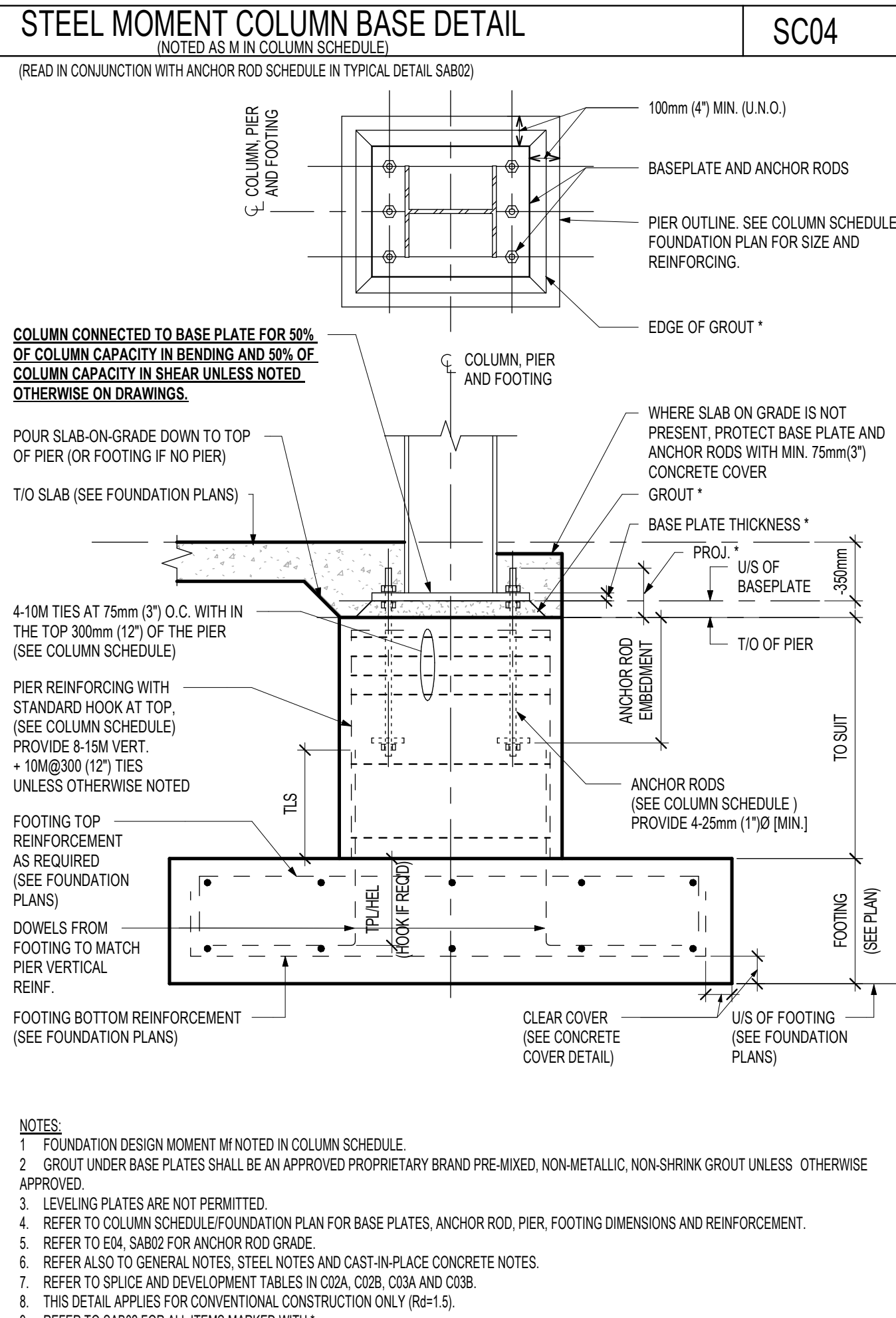
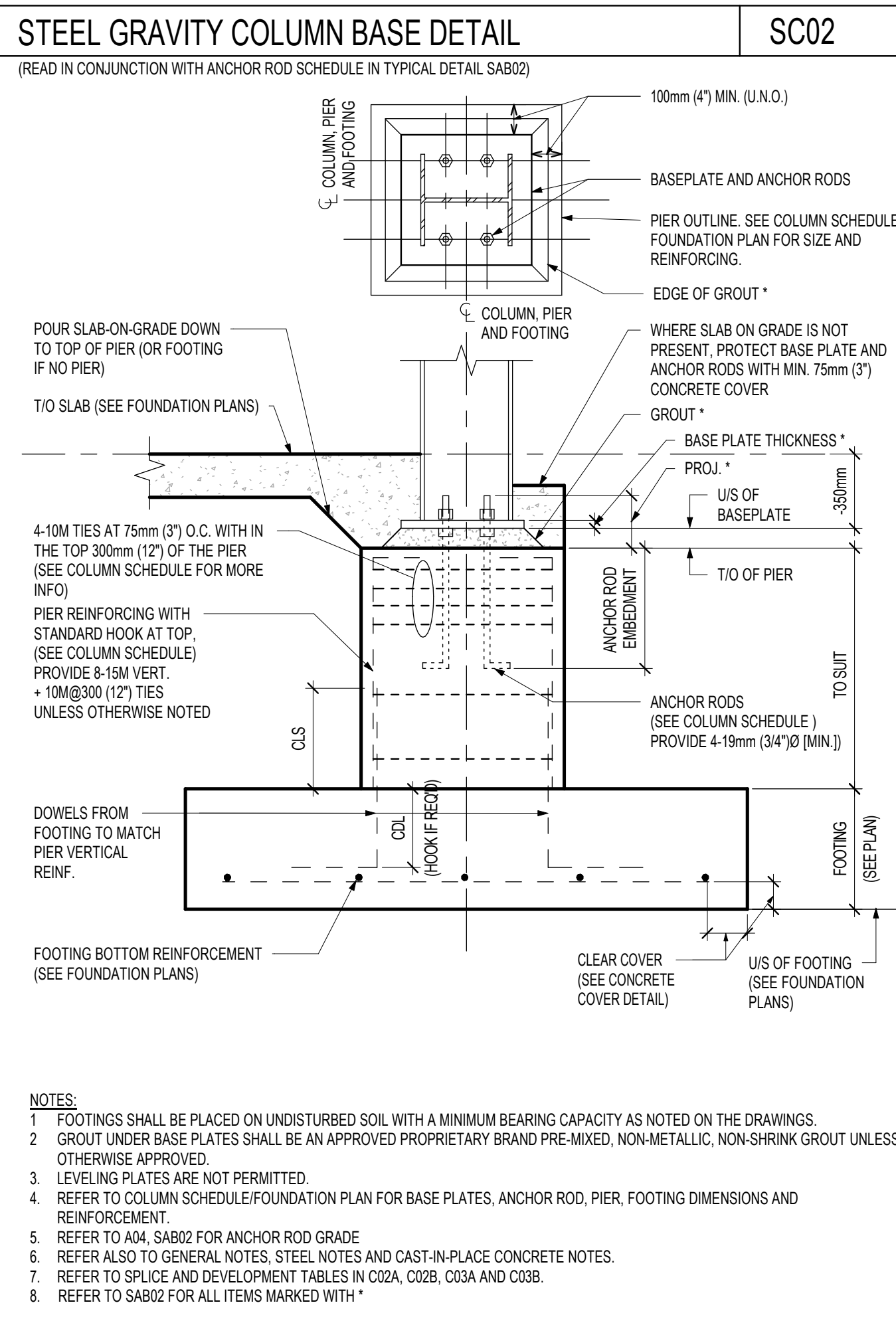
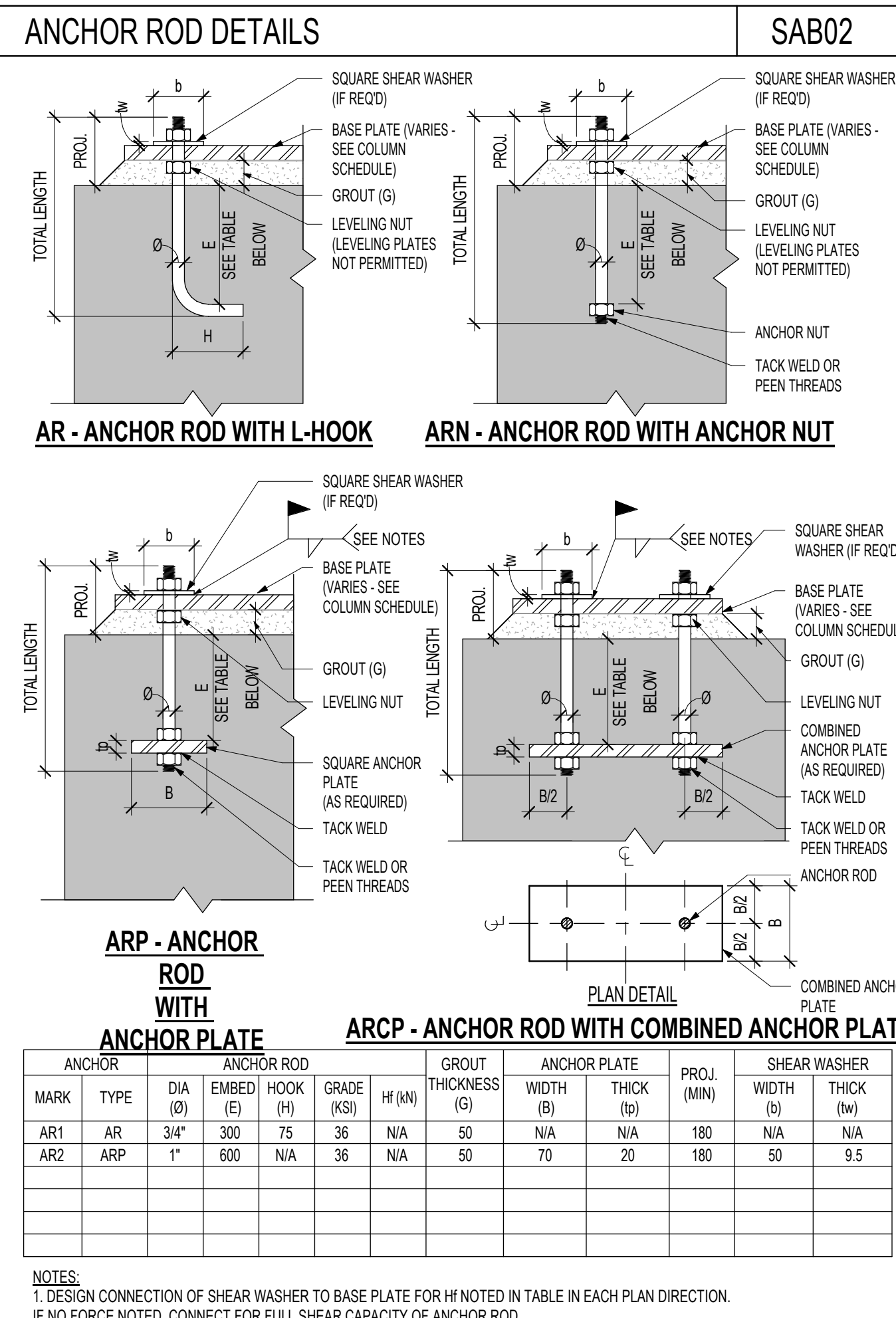
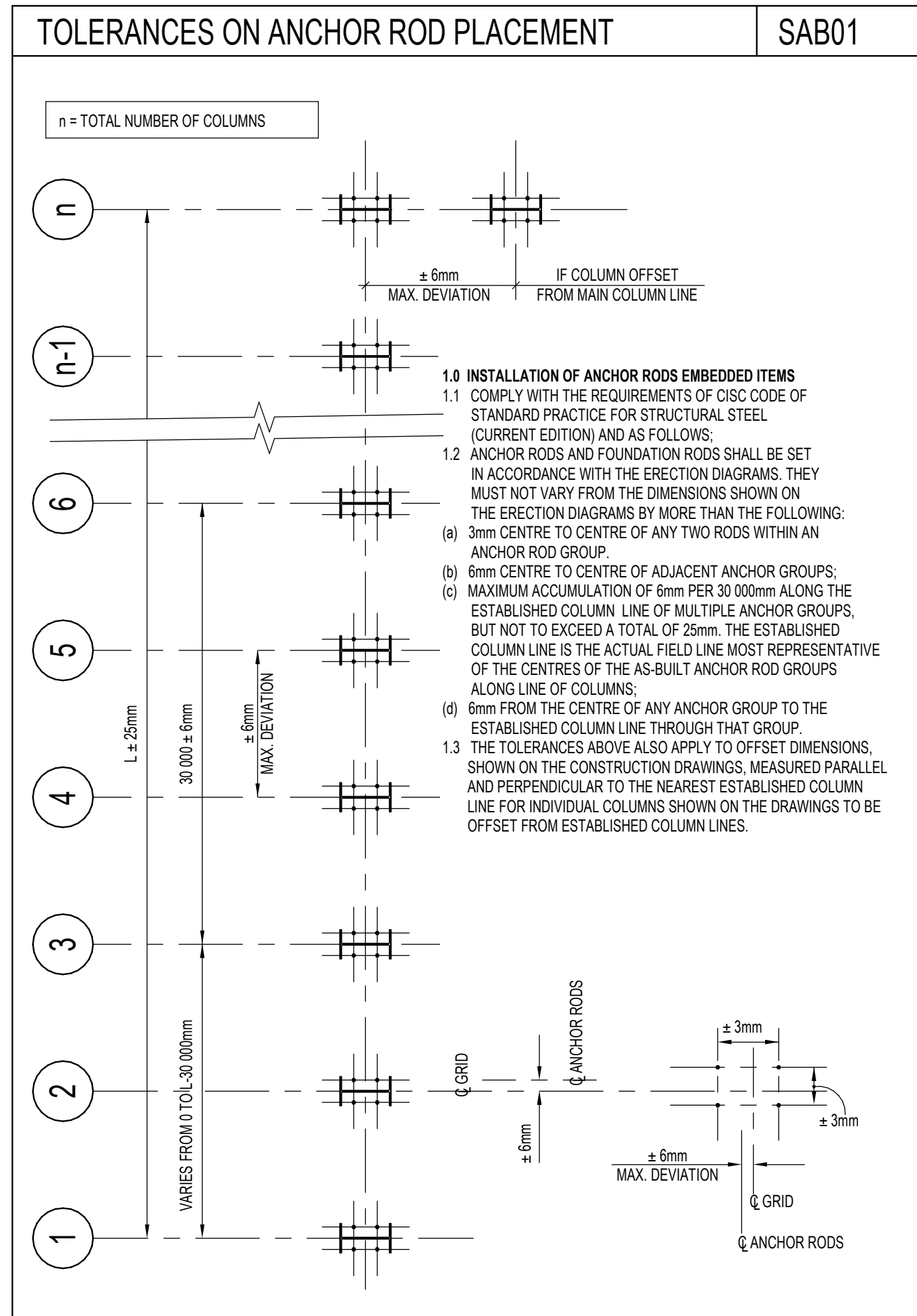
PROJECT NO: 20210932

DRAWING NO: S4-02

CHECKED BY: MM

REVISION: 4

2024-09-09 10:08:33 AM



NON-LOAD BEARING BLOCK WALL LINTELS

M01A

WALL OPENING CLEAR SPAN	STRUCTURAL STEEL LINTELS				
	MASONRY BLOCK THICKNESS				
	90 (4")	140 (6")	190 (8")	240 (10")	290 (12")
300mm TO 500mm (12" TO 22")	75mm X 8mm PL (3"x5/16" PL)	125mm X 8mm PL (5"x5/16" PL)	175mm X 8mm PL (7"x5/16" PL)	225mm X 8mm PL (9"x5/16" PL)	275mm X 8mm PL (11"x5/16" PL)
550mm TO 1200mm (22" TO 4'-0")	1-489x89x6.4 OR 2-144x44x4.8	1-127x89x6.4 (LLV) OR 2-144x44x4.8	2-189x89x6.4	L102x89x6.4 (LLH) + L127x89x6.4 (LLH)	3-189x89x6.4
1200mm TO 1830mm (4'-0" TO 6'-0")	1-127x89x7.9 (LLV) OR 2-151x38x6.4 (LLV)	1-127x127x7.9 OR 2-189x64x6.4 (LLV)	2-189x89x6.4	L102x89x6.4 (LLH) + L127x89x6.4 (LLH)	3-189x89x6.4
1830mm TO 2440mm (6'-0" TO 8'-0")	1-127x89x7.9 (LLV)	1-127x127x7.9 OR 2-189x64x7.9 (LLV)	2-127x89x6.4 (LLV)	L102x102x7.9 + L127x102x7.9 (LLH)	3-127x89x6.4 (LLV)
2440mm TO 3080mm (8'-0" TO 10'-0")	1-127x89x9.5 (LLV)	1-127x127x7.9	2-127x89x7.9 (LLV)	L152x102x7.9 (LLV) + L127x127x7.9	3-127x89x7.9 (LLV)
3080mm TO 3660mm (10'-0" TO 12'-0")	N/A	N/A	W200x27 + 175x6.4 PL, BOTTOM	W200x27 + 225x6.4 PL, BOTTOM	N/A

STRUCTURAL STEEL LINTEL NOTES:
 1. WHEN PROVIDING MULTIPLE ANGLES SEE DIAGRAMS FOR ORIENTATION. BOLT DOUBLE ANGLES BACK TO BACK USING 16mm Ø BOLTS OR PROVIDE 6mmx50mm (1/4"x2") LONG WELDS @450mm (18") O/C STARTING AT 100mm (4") MAX FROM THE EACH END OF THE LINTEL.
 2. SAWCUT WEBS OF BLOCK IN COURSE OF BLOCK OVER OPENING AS NECESSARY TO INSTALL ANGLES.
 3. ALTERNATIVES PROVIDED FOR CASES WHERE EXPOSED FACE OF SINGLE ANGLE IS NOT ACCEPTABLE.

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

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

APPROVAL STAMP

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ISSUE OR REVISION		DATE
NO. ISSUED FOR	ISSUED FOR TENDER	DECEMBER 12, 2023
2	ISSUED FOR CONSTRUCTION	SEPTEMBER 09, 2009

PROJECT: CITY OF VAUGHAN
 CLIENT: FIRE STATION 7-12
 9511 WESTON ROAD, VAUGHAN

VAUGHAN

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

Salas O'Brien

2238 Sheppard Ave. E. Suite No. 1100
 Toronto, ON M2J 8R6
 Stephenson Engineering, a company of Salas O'Brien

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
 M.R. MARTILLA
 100164027
 PROVINCE OF ONTARIO

DWG TITLE: TYPICAL NOTES

ORIENTATION

DATE: SEPT. 2024

SCALE: 1 : 1 DRAWN BY: CHECKED BY: MM

DWG STATUS: IFC

PROJECT NO: 20210932

DRAWING NO: S4-03 REVISION: 4

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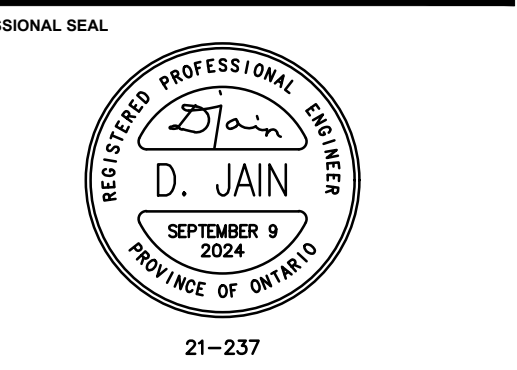
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2	BUILDING PERMIT	2023.09.07
3	CITY COMMENTS	2023.11.10
4	TENDER	2024.04.15
5	CONSTRUCTION	2024.09.09

CITY OF VAUGHAN FIRE STATION 7-12

9541 WESTON ROAD, VAUGHAN



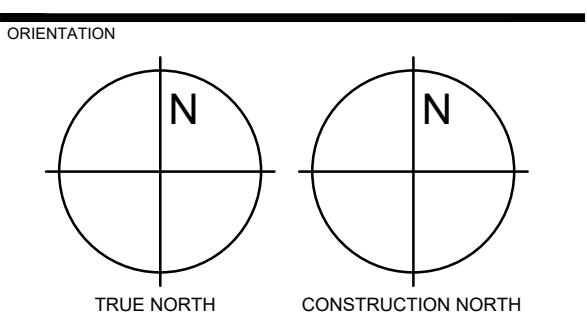
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Jain

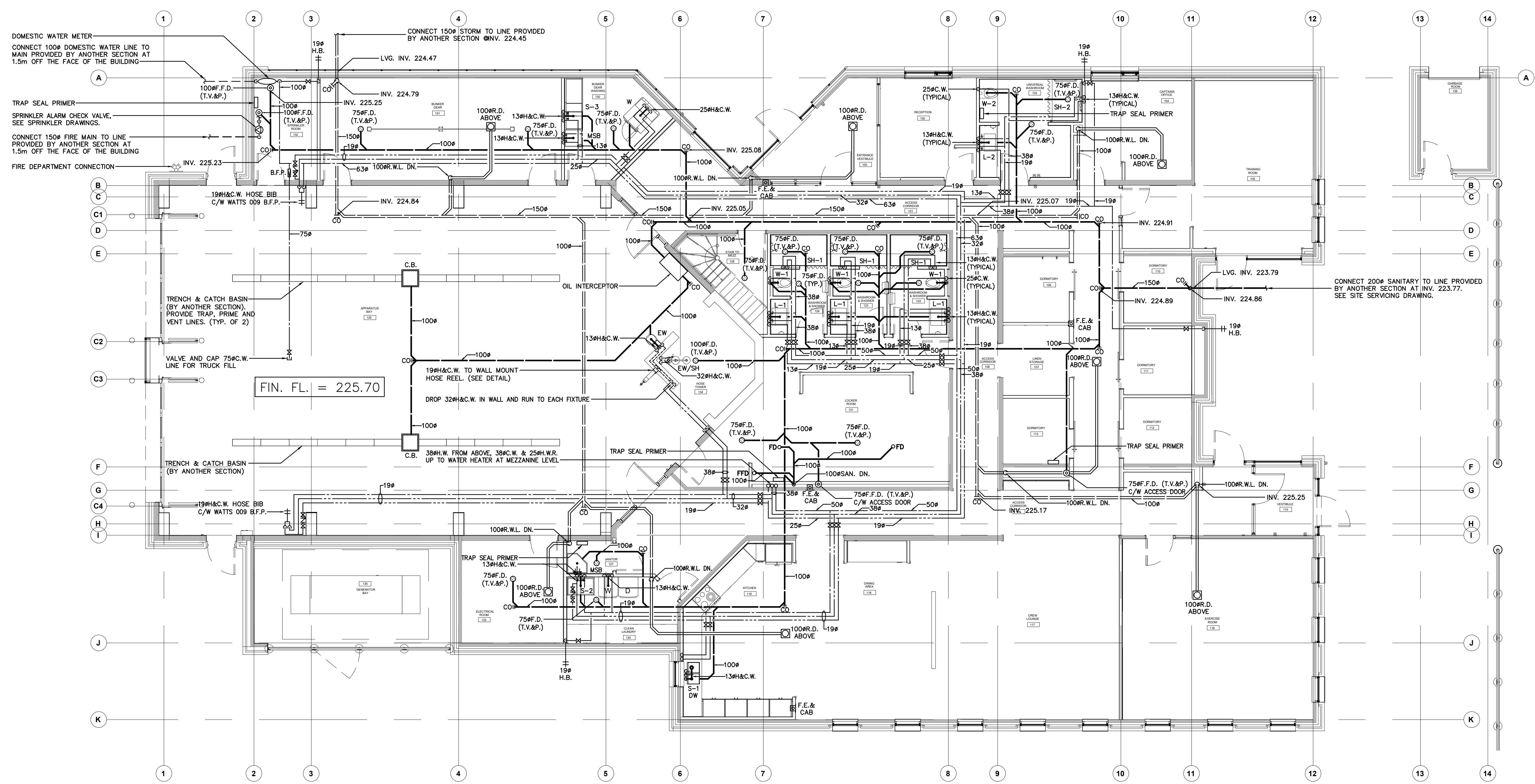
7405 East Danbro Crescent, 2nd Floor
Mississauga, Ontario, L5N 6P8
Tel: 905 285 9900, Fax: 905 567 5246
Email: mail@jainconsultants.com

FLOOR PLAN - PLUMBING -

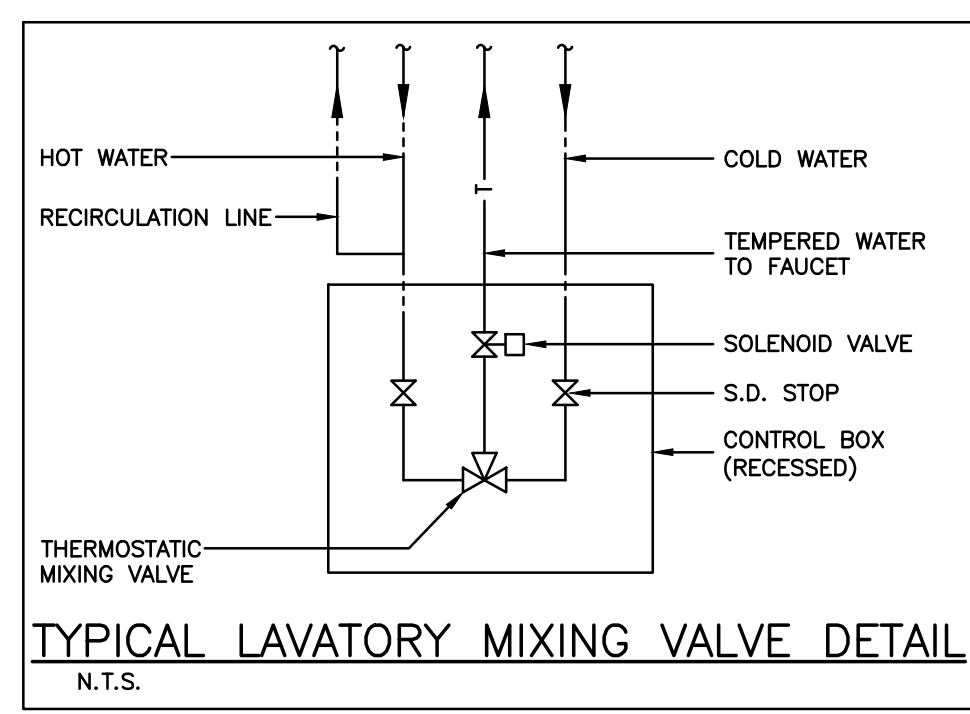
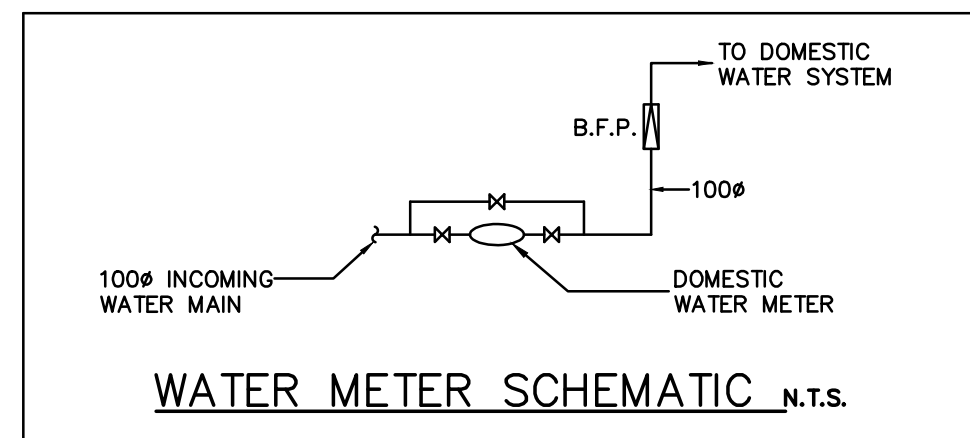
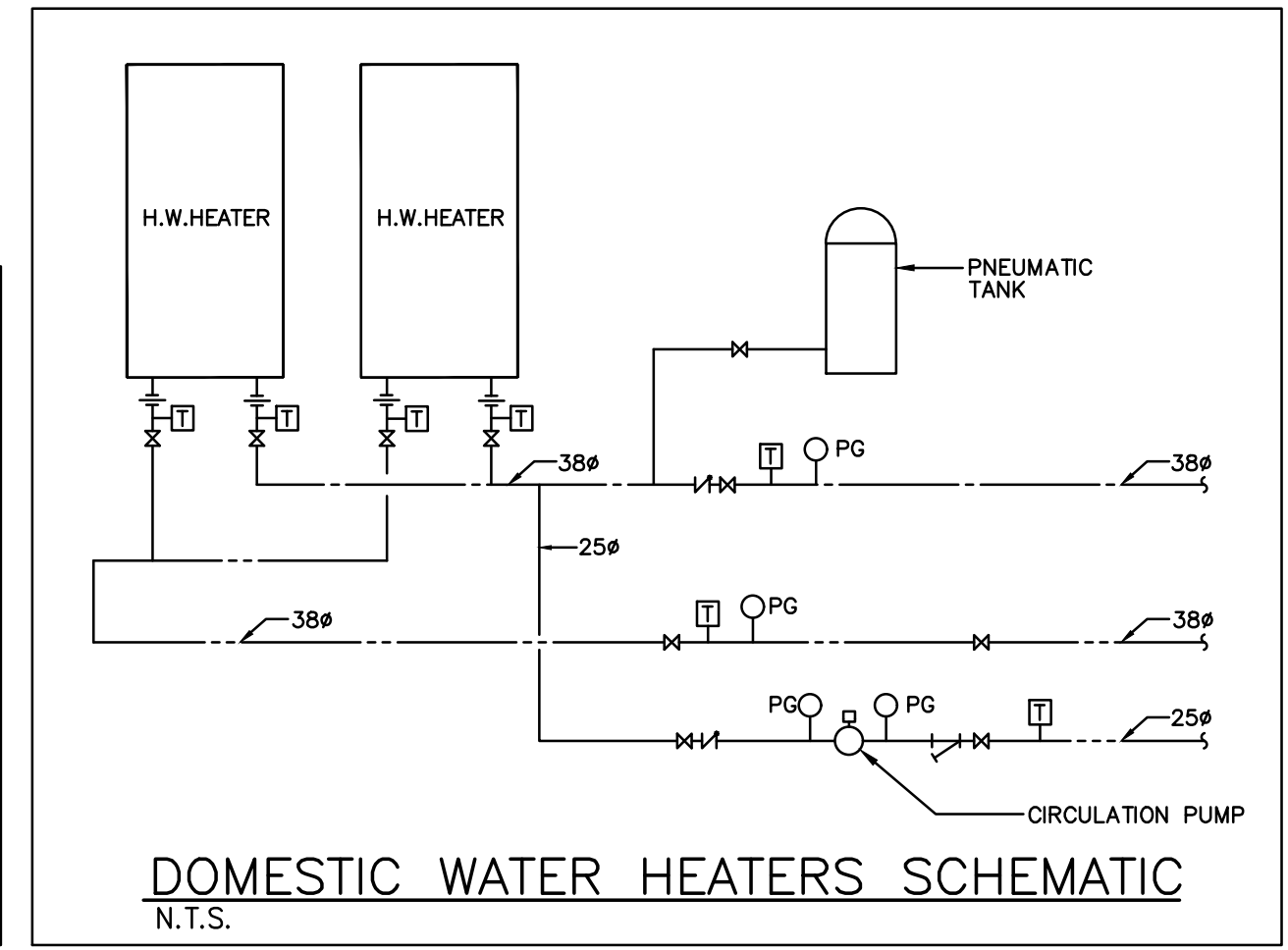
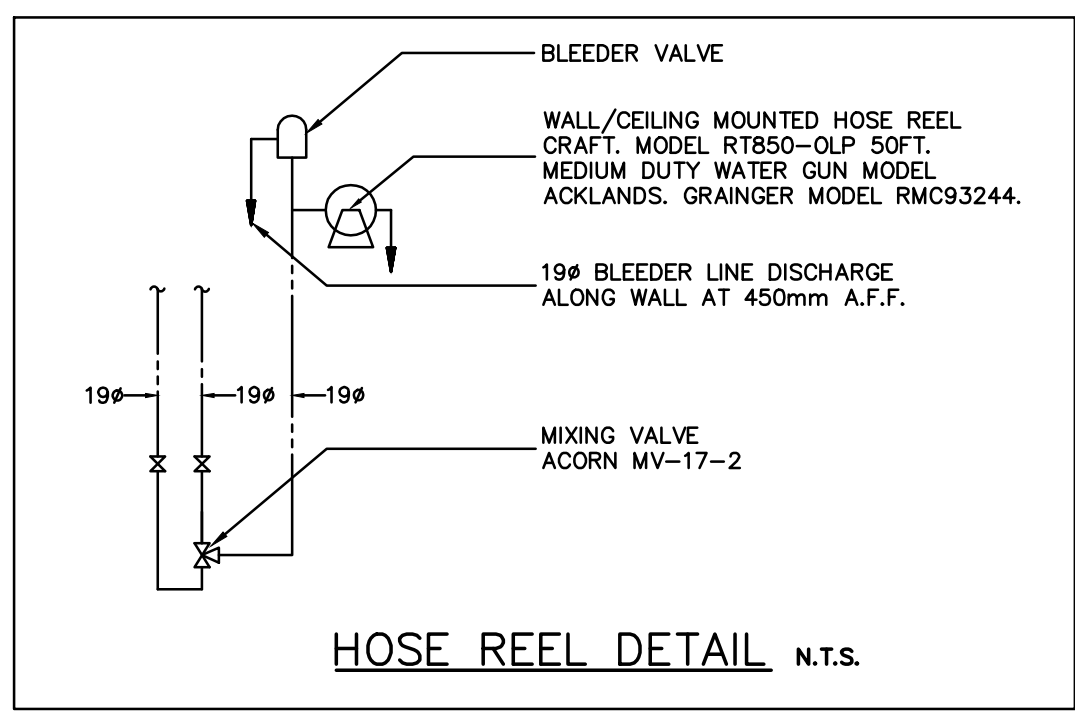


DATE: 2021-11-24
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DWG STATUS: CONSTRUCTION
PROJECT NO: 2104
DRAWING NO: M-1.1 REVISION: 05

2022-06-20 2:29:07 PM



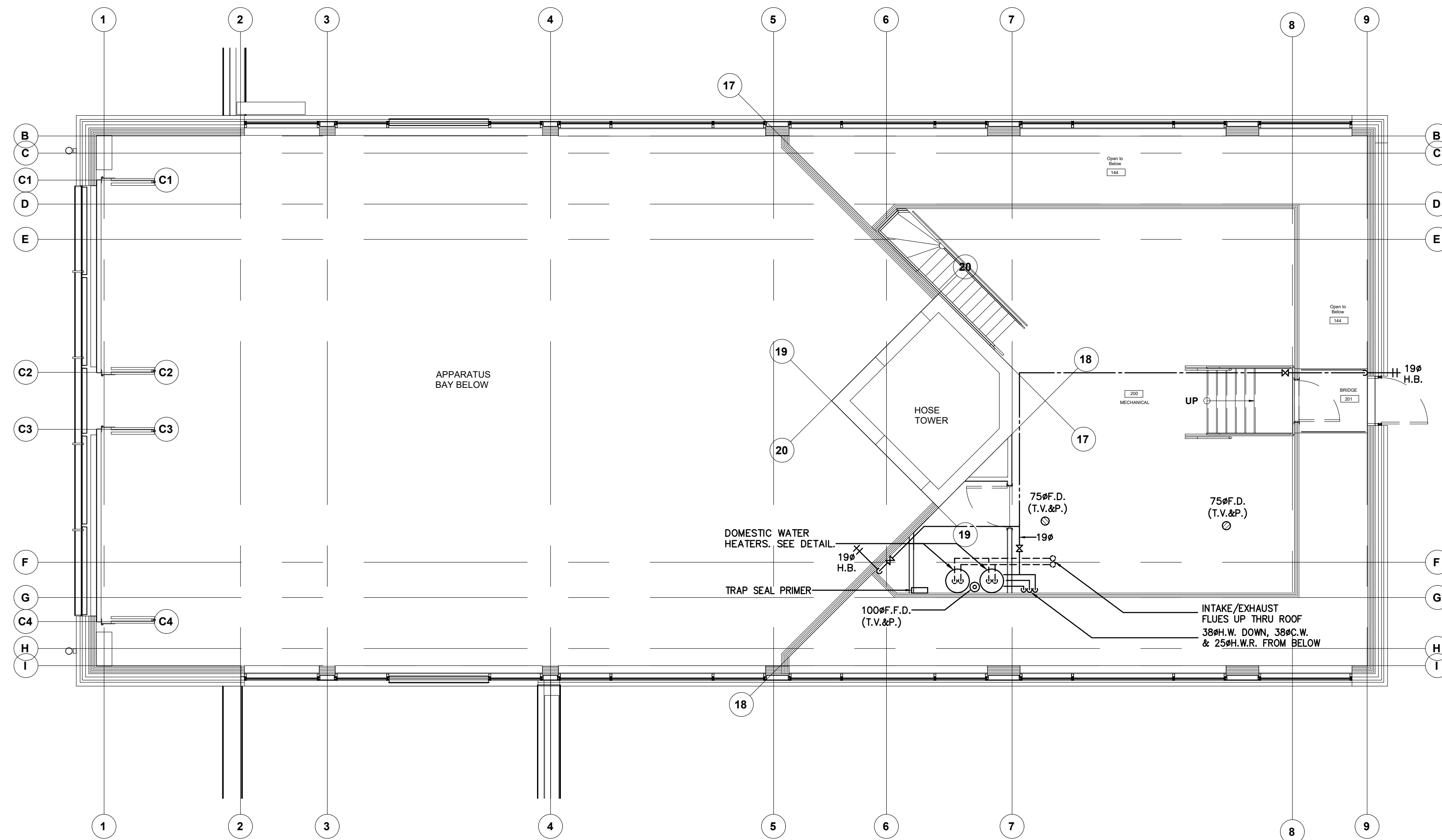
PLUMBING & DRAINAGE LEGEND	
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	SANITARY DRAIN (BELOW GRADE)
	STORM DRAIN (ABOVE GRADE)
	STORM DRAIN (BELOW GRADE)
	VENT LINE
	DOMESTIC COLD WATER LINE
	DOMESTIC HOT WATER LINE
	DOMESTIC RECIRCULATION LINE
	CLEANOUT
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	GATE VALVE
	CHECK VALVE
	GLOBE VALVE
	UNION
	BACKFLOW PREVENTER
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER & CABINET
	TRAP, VENT & FLUSH
	RAINWATER LEADER
	FLOOR DRAIN (T.V. AND F.)



ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING	2022.07.07
2	BUILDING PERMIT	2023.09.07
3	CITY COMMENTS	2023.11.10
4	TENDER	2024.04.15
5	CONSTRUCTION	2024.09.09

**CITY OF VAUGHAN FIRE
STATION 7-12**

9541 WESTON ROAD, VAUGHAN



PLUMBING & DRAINAGE LEGEND	
	SANITARY DRAIN (ABOVE GRADE)
	SANITARY DRAIN (BELOW GRADE)
	STORM DRAIN (ABOVE GRADE)
	STORM DRAIN (BELOW GRADE)
	VENT LINE
	DOMESTIC COLD WATER LINE
	DOMESTIC HOT WATER LINE
	DOMESTIC RECIRCULATION LINE
	FIRE LINE (STANDPIPE SYSTEM)
	GAS LINE
	GREY WATER
	TEMPERED WATER LINE
	CLEANOUT
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	GATE VALVE
	CHECK VALVE
	GLOBE VALVE
	UNION
	BACKFLOW PREVENTER
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER & CABINET
	TRAP, VENT & FLUSH
	RAINWATER LEADER
	FLOOR DRAIN (T.V. AND F.)
	B.F.P.
	F.E. & CAB
	T.V. & F.
	R.W.L.
	F.D.

PROJECT:

CLIENT:



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PROFESSIONAL SEAL:



21-237

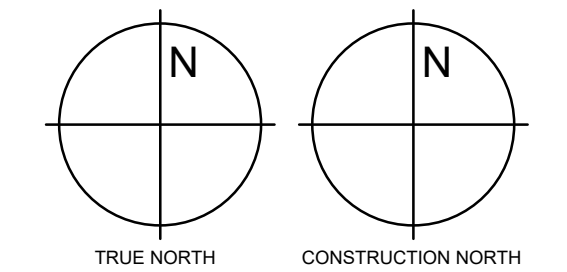
Jain

7405 East Danbro Crescent, 2nd Floor
Mississauga, Ontario, L5N 6P8
Tel: 905 285 9900, Fax: 905 567 5246
Email: mail@jainconsultants.com

DWG TITLE:

**MEZZANINE PLAN
- PLUMBING -**

ORIENTATION:



DATE: 2021-11-24

SCALE: 1:75 DRAWN BY: C.R.

DWG STATUS: CONSTRUCTION

PROJECT No: 2104

DRAWING No: **M-1.2** REVISION: 05

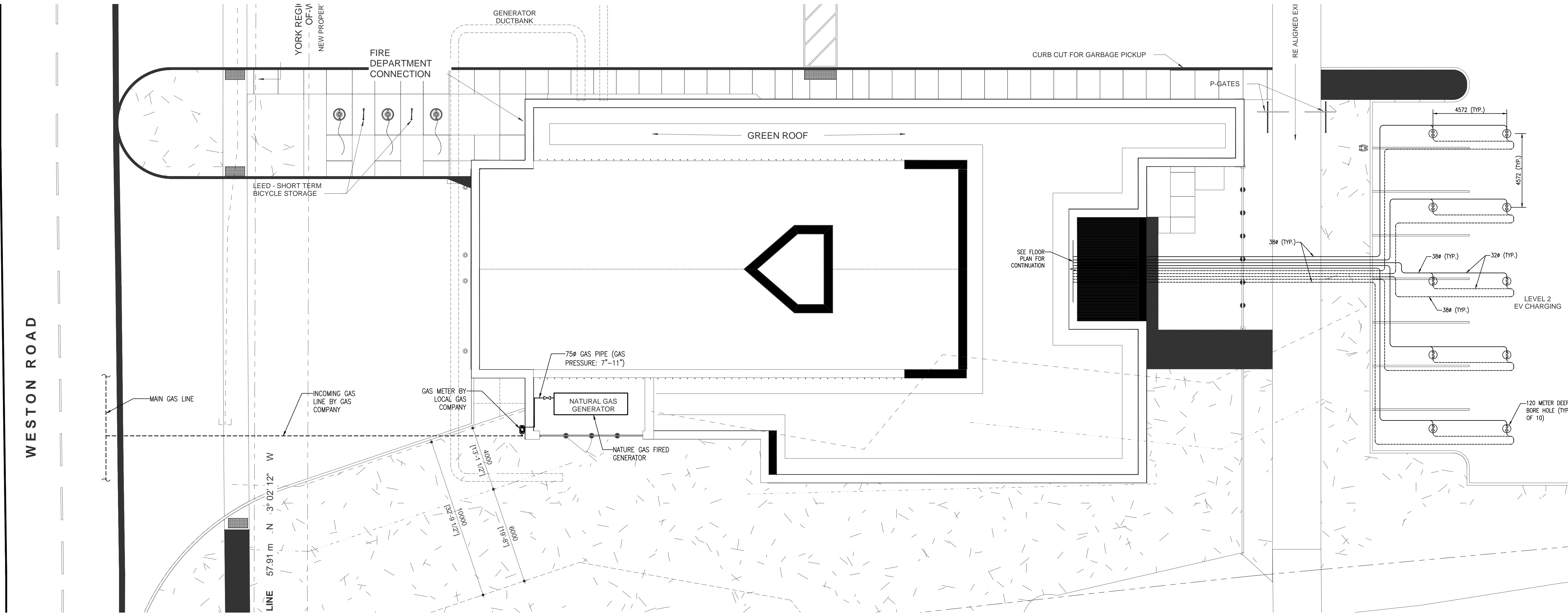
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ISSUE OR REVISION

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1	DESIGN DEVELOPMENT FOR COSTING	2022-07-07
2	ISSUED FOR PERMIT	2023-09-06
3	ISSUED FOR TENDER	2024-04-15
4	ISSUED FOR CONSTRUCTION	2024-09-09

HVAC LEGEND

	DOUBLE LINE DUCT (FIRST FIGURE IS DUCT WIDTH)		300x300 RETURN/EXHAUST AIR GRILLE		BALANCING DAMPER		SPEED CONTROLLER
	OPEN END DUCT C/W 13mm MESH SCREEN		600x300 RETURN/EXHAUST AIR GRILLE		FIRE DAMPER		HUMIDISTAT
	SUPPLY DUCT		600x600 RETURN/EXHAUST AIR GRILLE		UNDER CUT DOOR BY ANOTHER TRADE SECTION		STARTER
	RETURN / EXHAUST DUCT		300x300 RETURN/EXHAUST AIR GRILLE C/W 300x200 SOUNDLINED AIR TRANSFER DUCT		GLYCOL SUPPLY		BASEBOARD HEATER
	SQUARE DIFFUSER		NECK SIZE (mm)		GLYCOL RETURN		FORCE FLOW HEATER
			TYPE OF DIFFUSER		THERMOSTAT		FUNNEL FLOOR DRAIN
			AIR AMOUNT (L/S)		CO SENSER		BACKDRAFT DAMPER
			SUPPLY, RETURN, & EXHAUST GRILLE SIZE (mm)		NOX SENSER		SPLITTER DAMPER



SITE PLAN - HVAC GEOTHERMAL SYSTEM AND GAS PIPING LAYOUT
SCALE: 1:125

PROJECT:
**CITY OF VAUGHAN FIRE
STATION 7-12**
9511 WESTON ROAD, VAUGHAN

CLIENT:
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Jain
7405 EAST DANBRO CRESCENT
MISSISSAUGA, ONTARIO, L5N 6P8
TEL. 905 285 9900, FAX 905 567 5246
Email : mail@jainconsultants.com

PROFESSIONAL SEAL

DWG TITLE
**SITE PLAN -
HVAC**

ORIENTATION

DATE
2022-06-24

SCALE
As indicated

DRAWN BY
JY

DWG STATUS
TENDER

PROJECT No.
21-237

DRAWING No.
M2.0

REVISION

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ISSUE OR REVISION

NO.	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING	2022-07-07
2	ISSUED FOR PERMIT	2023-09-06
3	ISSUED FOR TENDER	2024-04-15
4	ISSUED FOR CONSTRUCTION	2024-09-09

PROJECT:
**CITY OF VAUGHAN FIRE
STATION 7-12**
9511 WESTON ROAD, VAUGHAN

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PROFESSIONAL SEAL

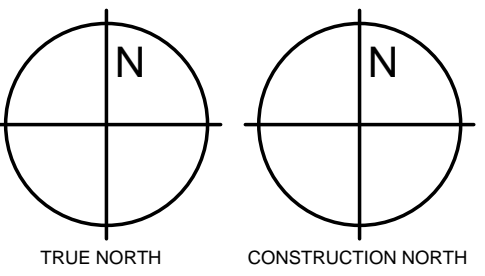


21-237

DWG TITLE

**FLOOR PLAN -
HVAC**

ORIENTATION



DATE

2022-06-24

SCALE

As indicated

DRAWN BY

JY

DWG STATUS

TENDER

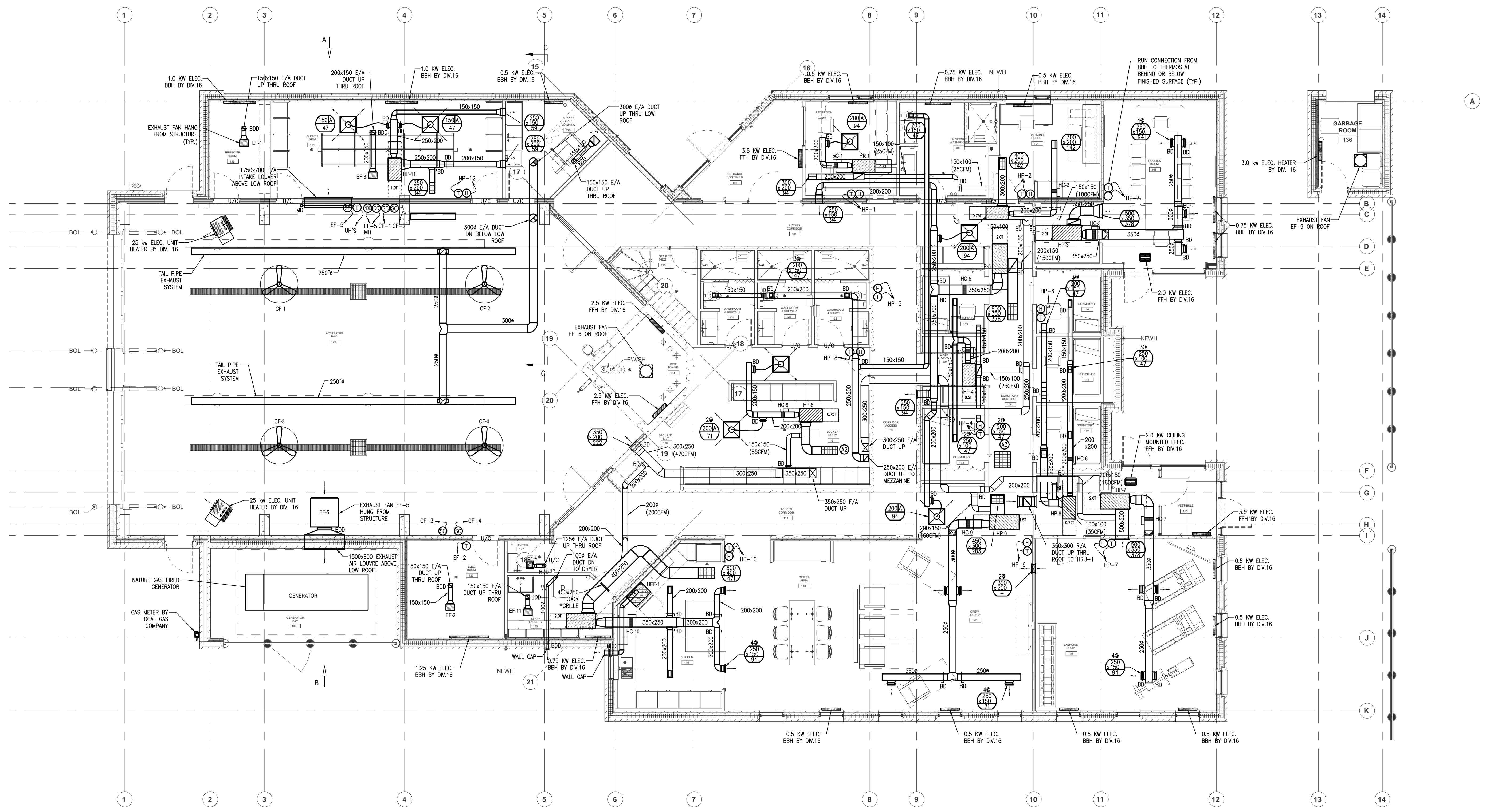
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REVISION

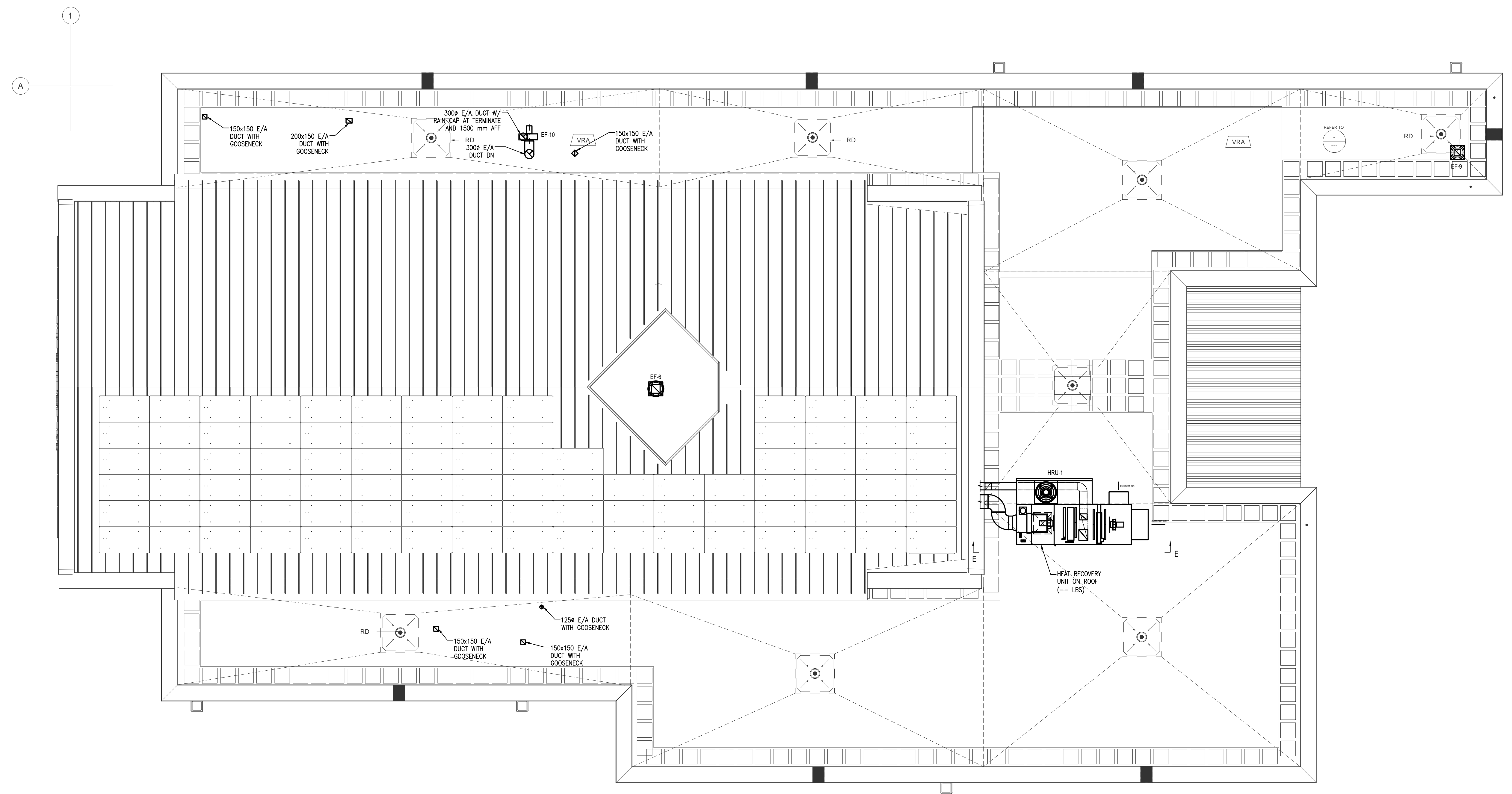


FLOOR PLAN - HVAC
SCALE: 1:75

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ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING	2022-07-07
2	ISSUED FOR PERMIT	2023-09-06
3	ISSUED FOR TENDER	2024-04-15
4	ISSUED FOR CONSTRUCTION	2024-09-09



ROOF PLAN - HVAC
SCALE: 1:75

PROJECT:
**CITY OF VAUGHAN FIRE
STATION 7-12**
9511 WESTON ROAD, VAUGHAN

CLIENT:
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Jain
7405 EAST DANBRO CRESCENT
MISSISSAUGA, ONTARIO, L5N 6P8
TEL: 905 285 9900, FAX: 905 567 5246
Email: mail@jainconsultants.com

PROFESSIONAL SEAL
REGISTERED PROFESSIONAL ENGINEER
D. JAIN
SEP.09'24
PROVINCE OF ONTARIO
21-237

DWG TITLE
**ROOF PLAN -
HVAC**

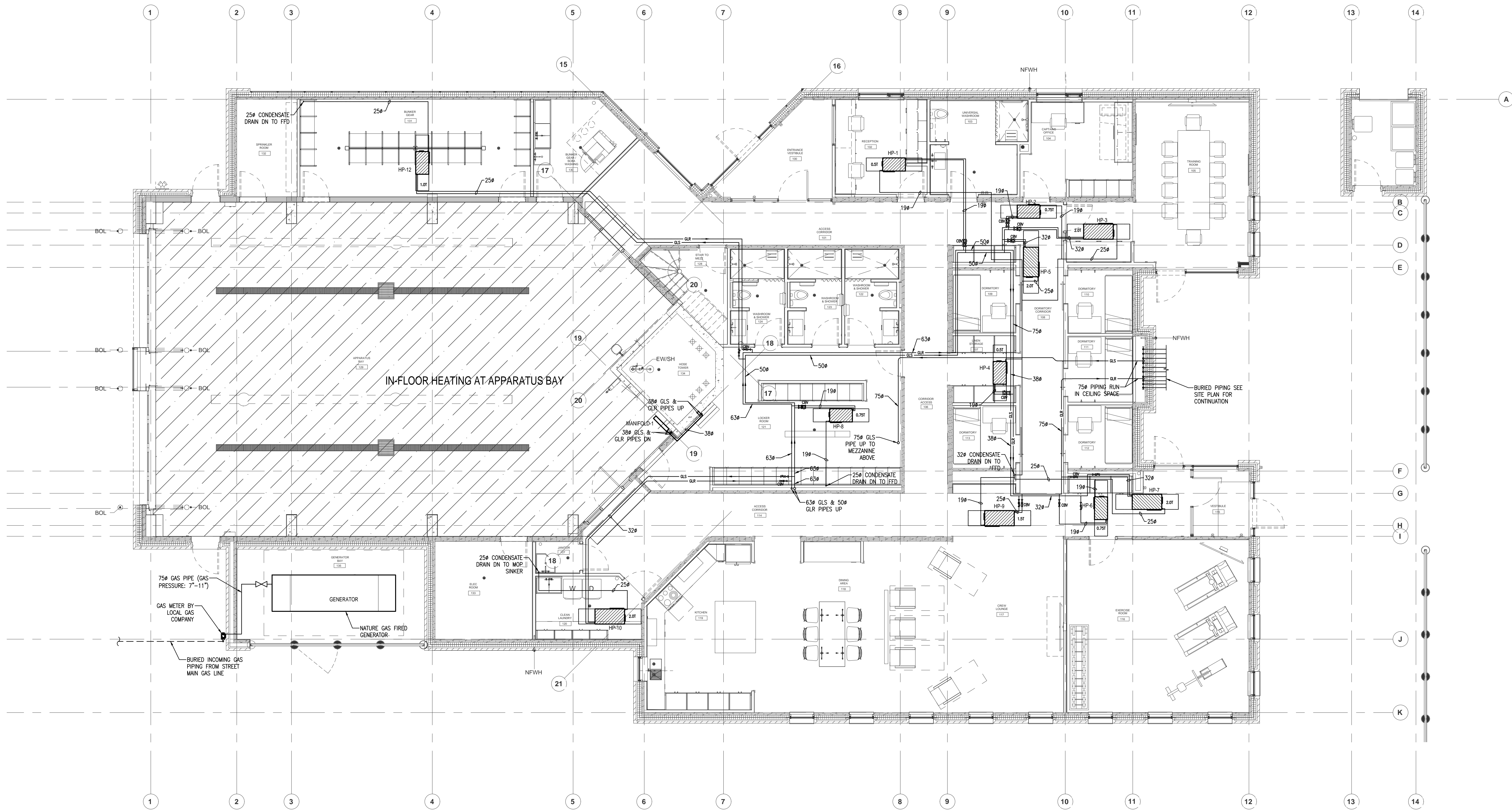
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TRUE NORTH
CONSTRUCTION NORTH

DATE	2022-06-24
SCALE	As indicated
DRAWN BY	JY
DWG STATUS	TENDER
PROJECT No.	21-237
DRAWING No.	M2.2
REVISION	

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ISSUE OR REVISION

NO.	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING	2022-07-07
2	ISSUED FOR PERMIT	2023-09-06
3	ISSUED FOR TENDER	2024-04-15
4	ISSUED FOR CONSTRUCTION	2024-09-09



FLOOR PLAN - HVAC PIPING
SCALE: 1:75

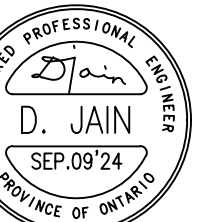
PROJECT:
**CITY OF VAUGHAN FIRE
STATION 7-12**
CLIENT:
9511 WESTON ROAD, VAUGHAN

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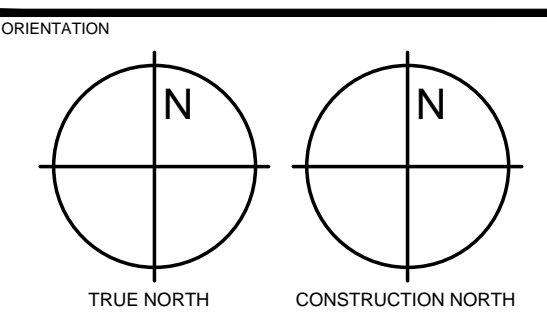
7405 EAST DANBRO CRESCENT
MISSISSAUGA, ONTARIO, L5N 6P8
TEL: 905 285 9900, FAX: 905 567 5246
Email: mail@jainconsultants.com

PROFESSIONAL SEAL



21-237

DWG TITLE
**FLOOR PLAN -
HVAC PIPING**



DATE
2022-06-24

SCALE
As indicated

DRAWN BY
JY

DWG STATUS
TENDER

PROJECT No.
21-237

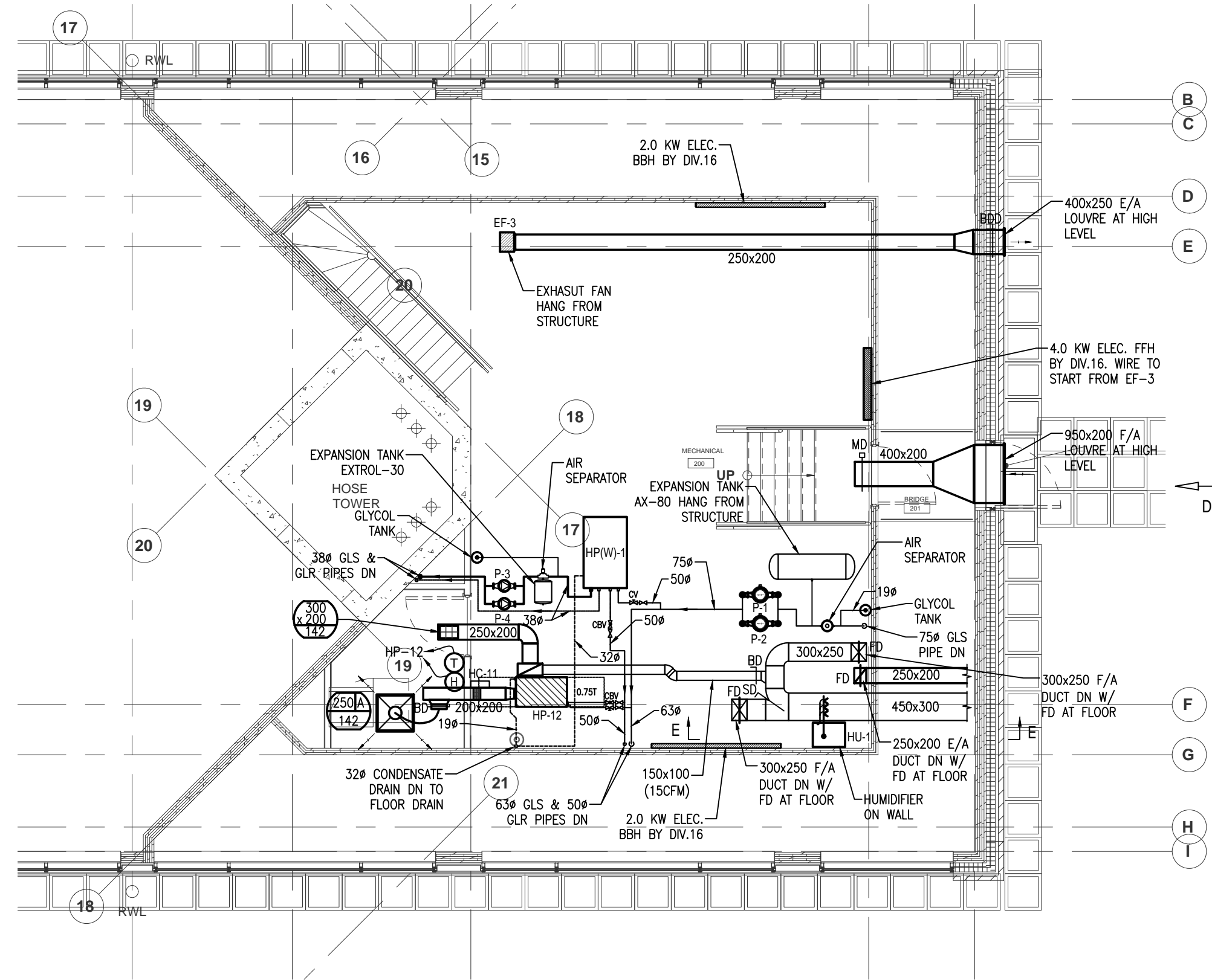
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M2.3

REVISION

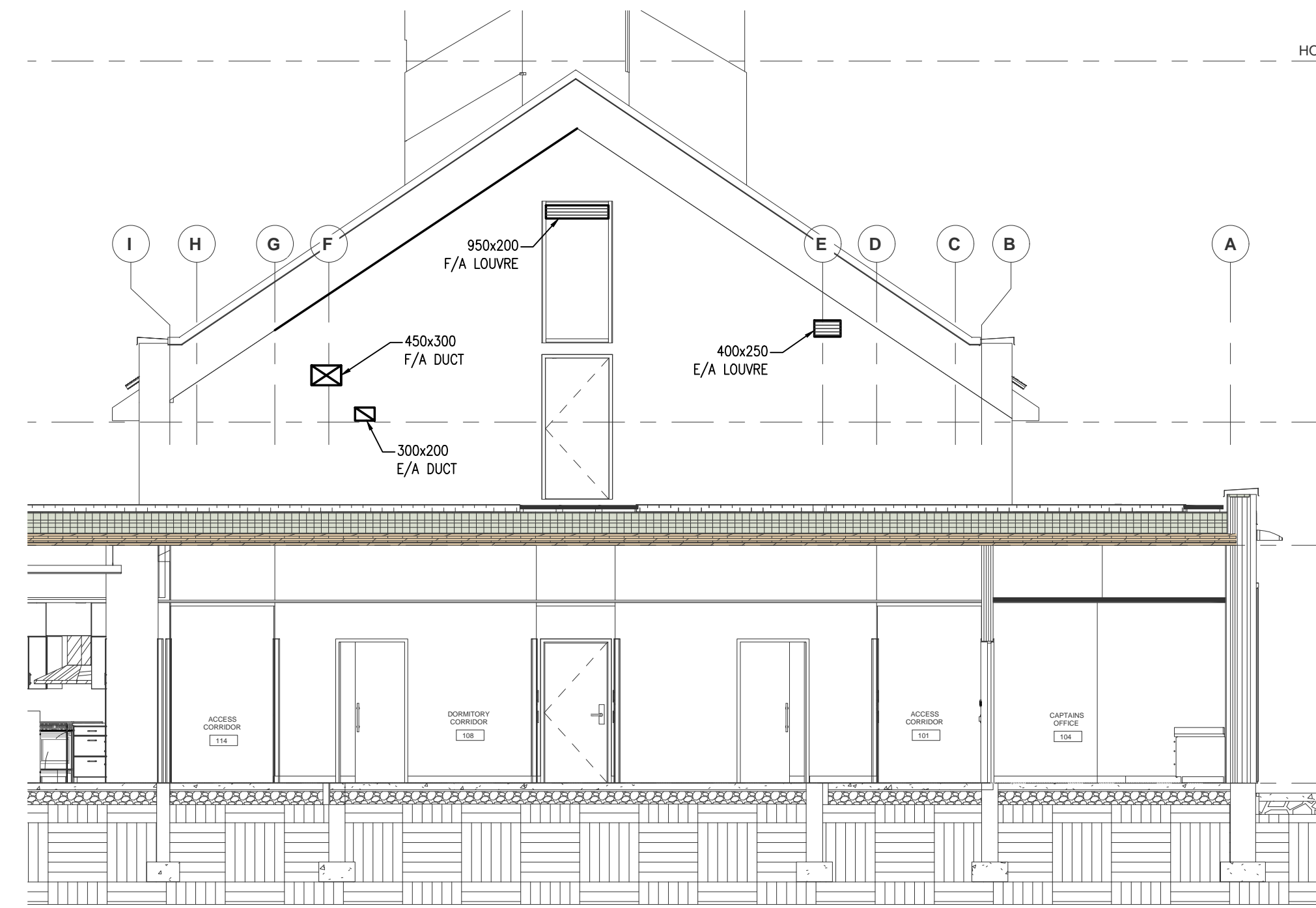
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ISSUE OR REVISION

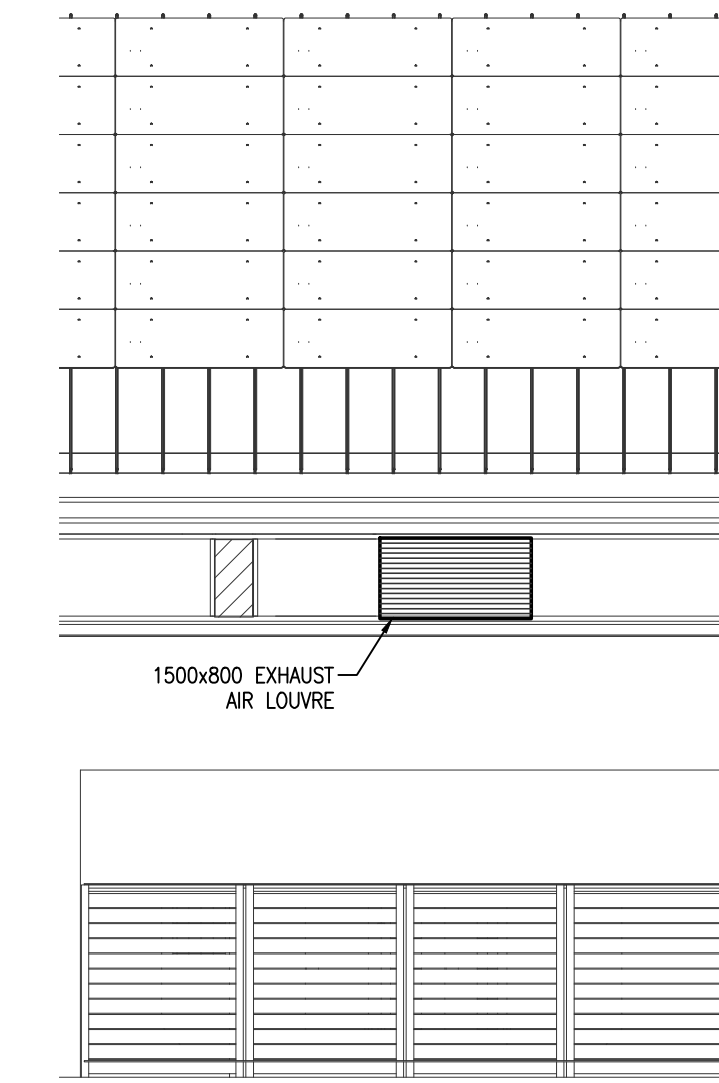
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1	DESIGN DEVELOPMENT FOR COSTING	2022-07-07
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3	ISSUED FOR TENDER	2024-04-15
4	ISSUED FOR CONSTRUCTION	2024-09-09



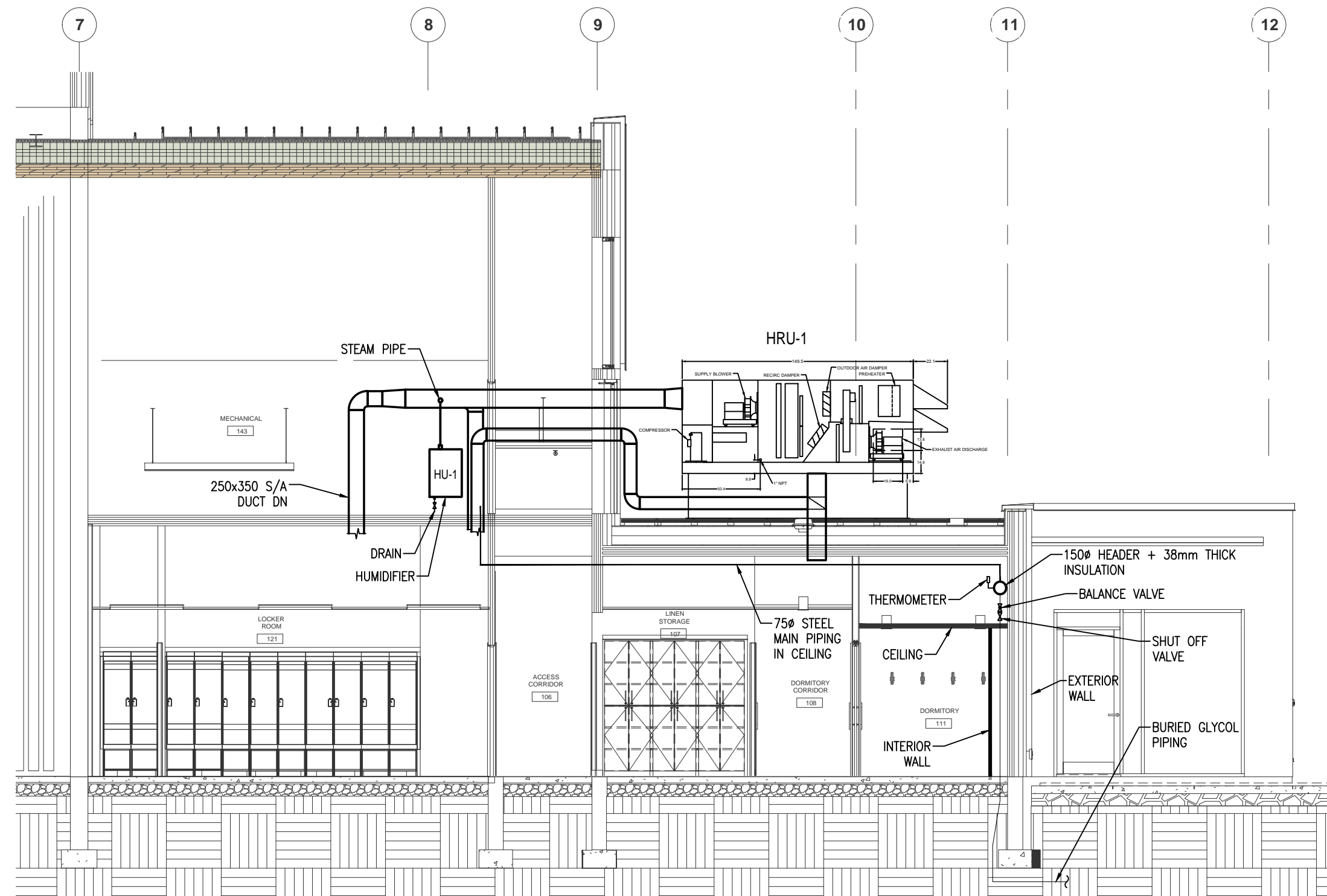
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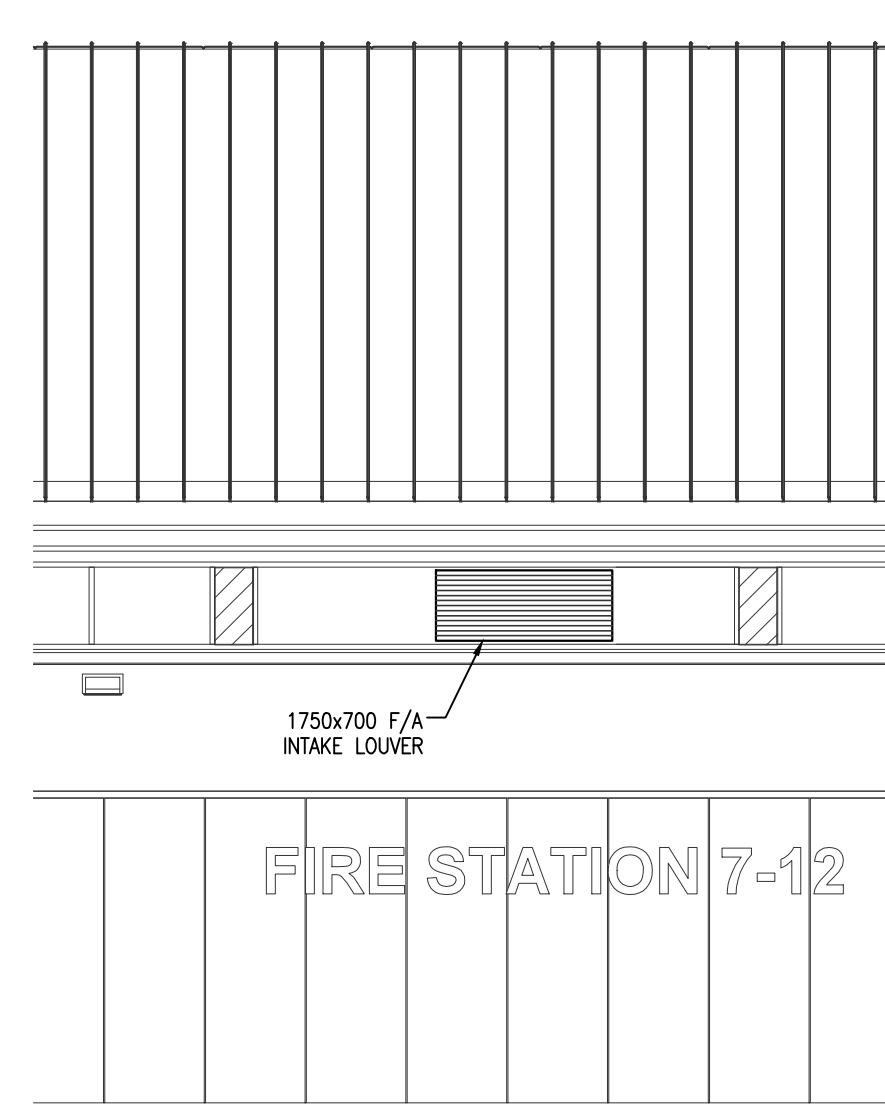
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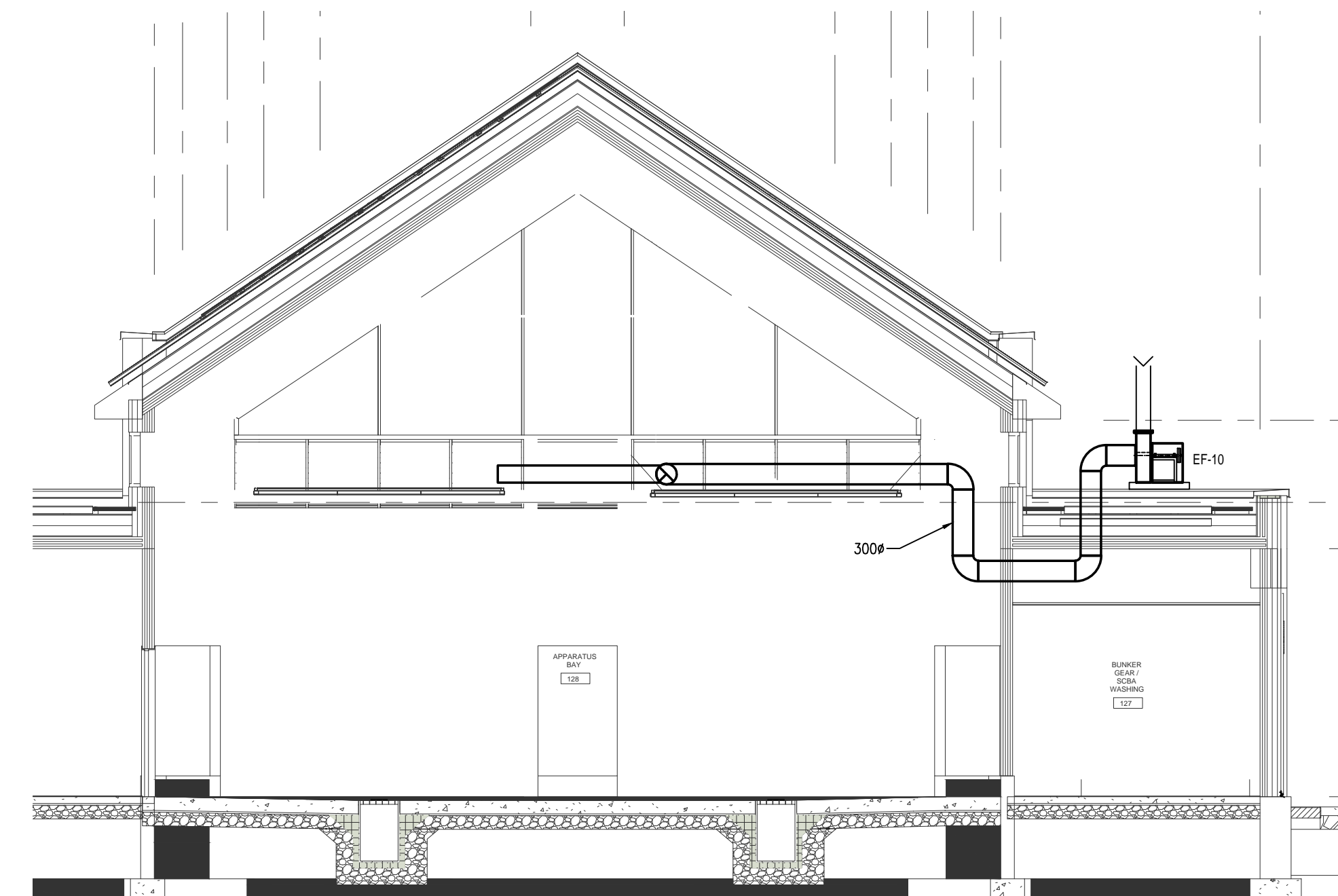
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SECTION E - E
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VIEW A
SCALE: 1:75



SECTION C - C
SCALE: 1:75

PROJECT:

CITY OF VAUGHAN FIRE
STATION 7-12
9511 WESTON ROAD, VAUGHAN

CLIENT:

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Jain

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MISSISSAUGA, ONTARIO, L5N 6P8
TEL: 905 285 9900, FAX: 905 567 5246
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PROFESSIONAL SEAL

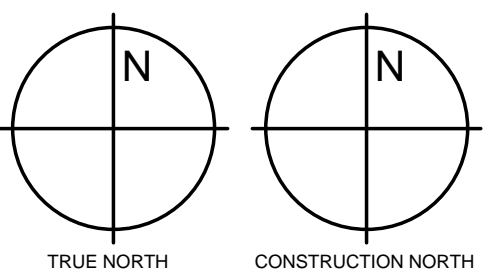


21-237

DWG TITLE

MEZZ. MECH RM
FLOOR PLAN &
SECTIONS - HVAC

ORIENTATION



DATE

2022-06-24

SCALE

As indicated

DRAWN BY

JY

DWG STATUS

TENDER

PROJECT No.

21-237

DRAWING No.

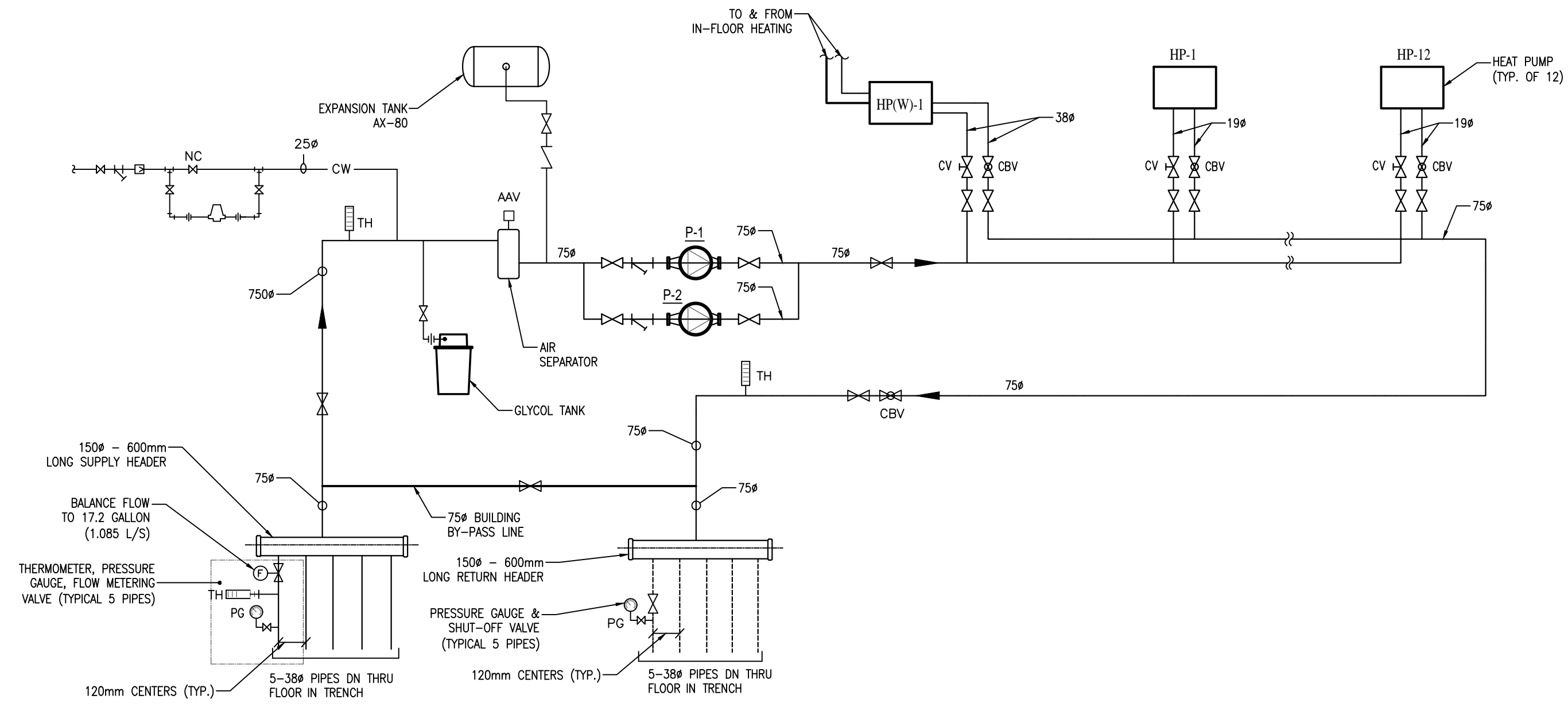
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REVISION

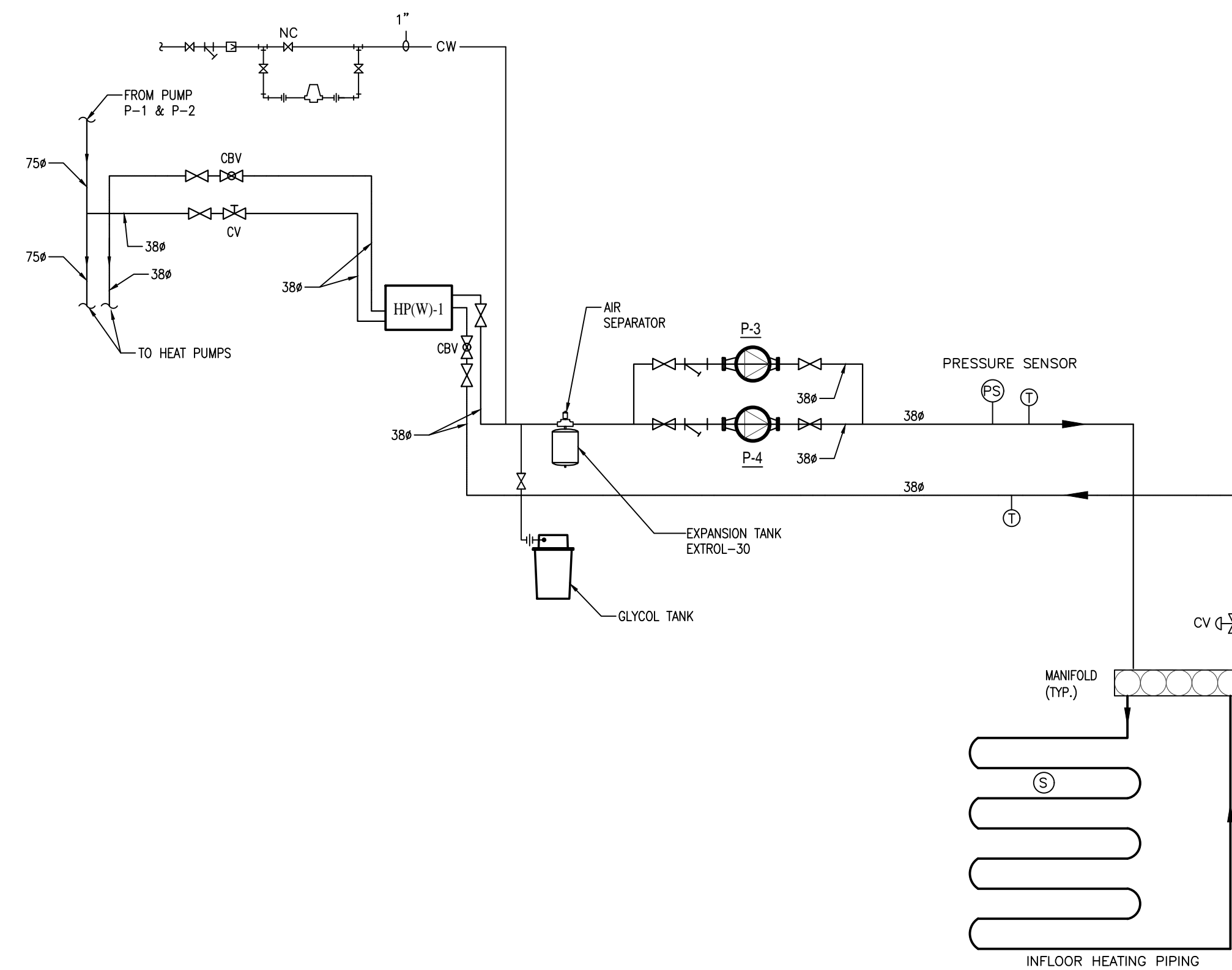
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ISSUE OR REVISION

NO.	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING	2022-07-07
2	ISSUED FOR PERMIT	2023-09-06
3	ISSUED FOR TENDER	2024-04-15
4	ISSUED FOR CONSTRUCTION	2024-09-09



GROUND SOURCE SYSTEM PIPING SCHEMATIC
SCALE: N.T.S.



IN FLOOR HAETING SYSTEM PIPING SCHEMATIC
SCALE: N.T.S.

PROJECT:
**CITY OF VAUGHAN FIRE
STATION 7-12**
9511 WESTON ROAD, VAUGHAN

CLIENT

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR
TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES
ARE TO BE REPORTED TO THE CONSULTANT.

Jain

7405 EAST DANBRO CRESCENT
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PROFESSIONAL SEAL

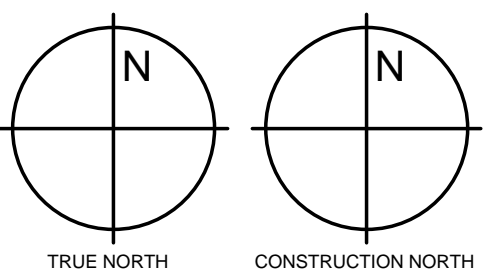


21-237

DWG TITLE

**GROUND SOURCE & IN
FLOOR HEATING SYSTEM
PIPING SCHEMATIC**

ORIENTATION



DATE

2022-06-24

SCALE

As indicated

DRAWN BY

JY

DWG STATUS

TENDER

PROJECT No.

21-237

DRAWING No.

M2.5

REVISION

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ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING	2022-07-07
2	ISSUED FOR PERMIT	2023-09-06
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4	ISSUED FOR CONSTRUCTION	2024-09-09

CITY OF VAUGHAN FIRE STATION 7-12
 9511 WESTON ROAD, VAUGHAN

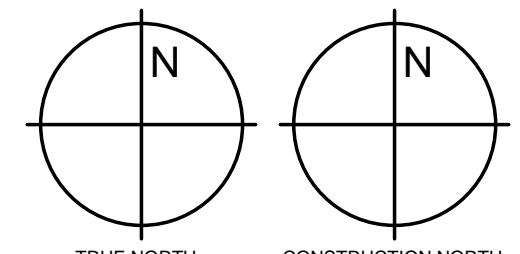
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PROFESSIONAL SEAL

 21-237

DWG TITLE
DETAILS

ORIENTATION

 TRUE NORTH CONSTRUCTION NORTH

DATE: 2022-06-24

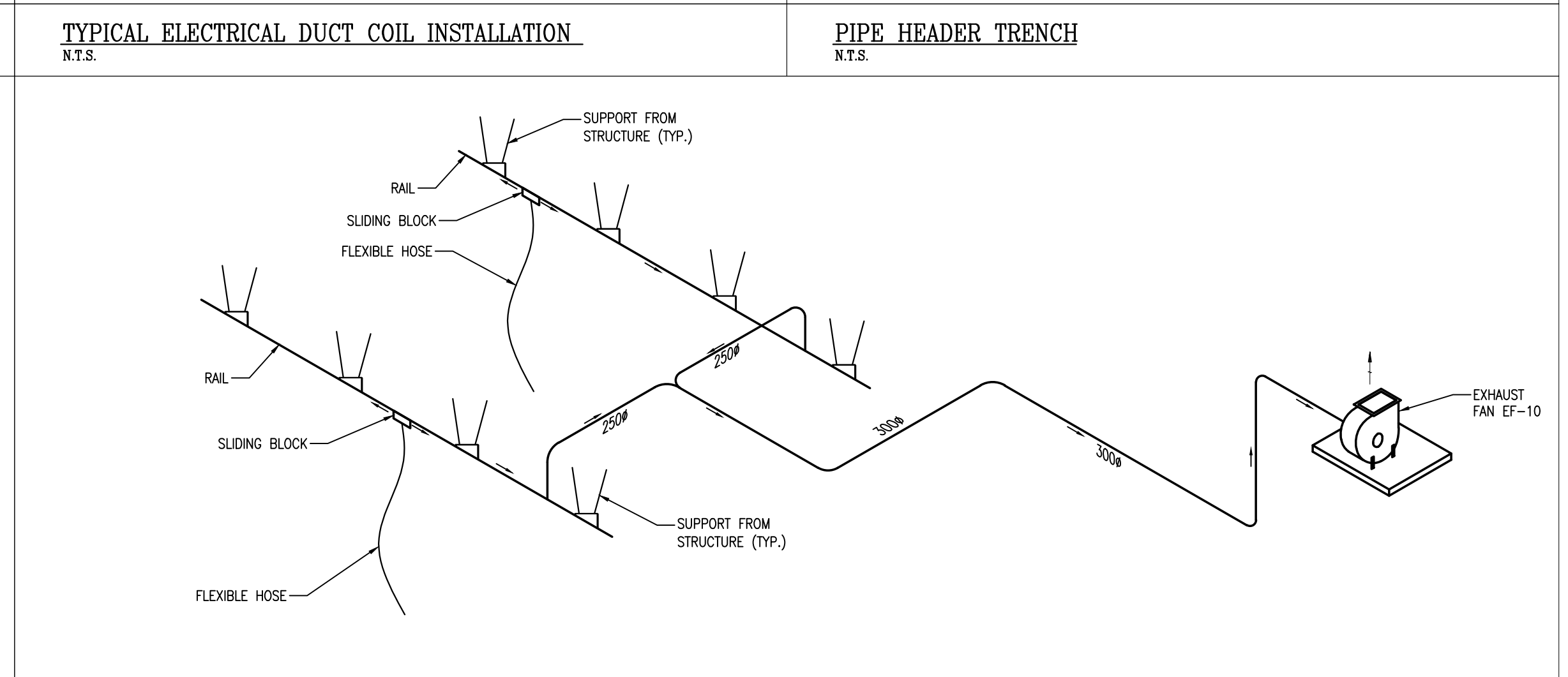
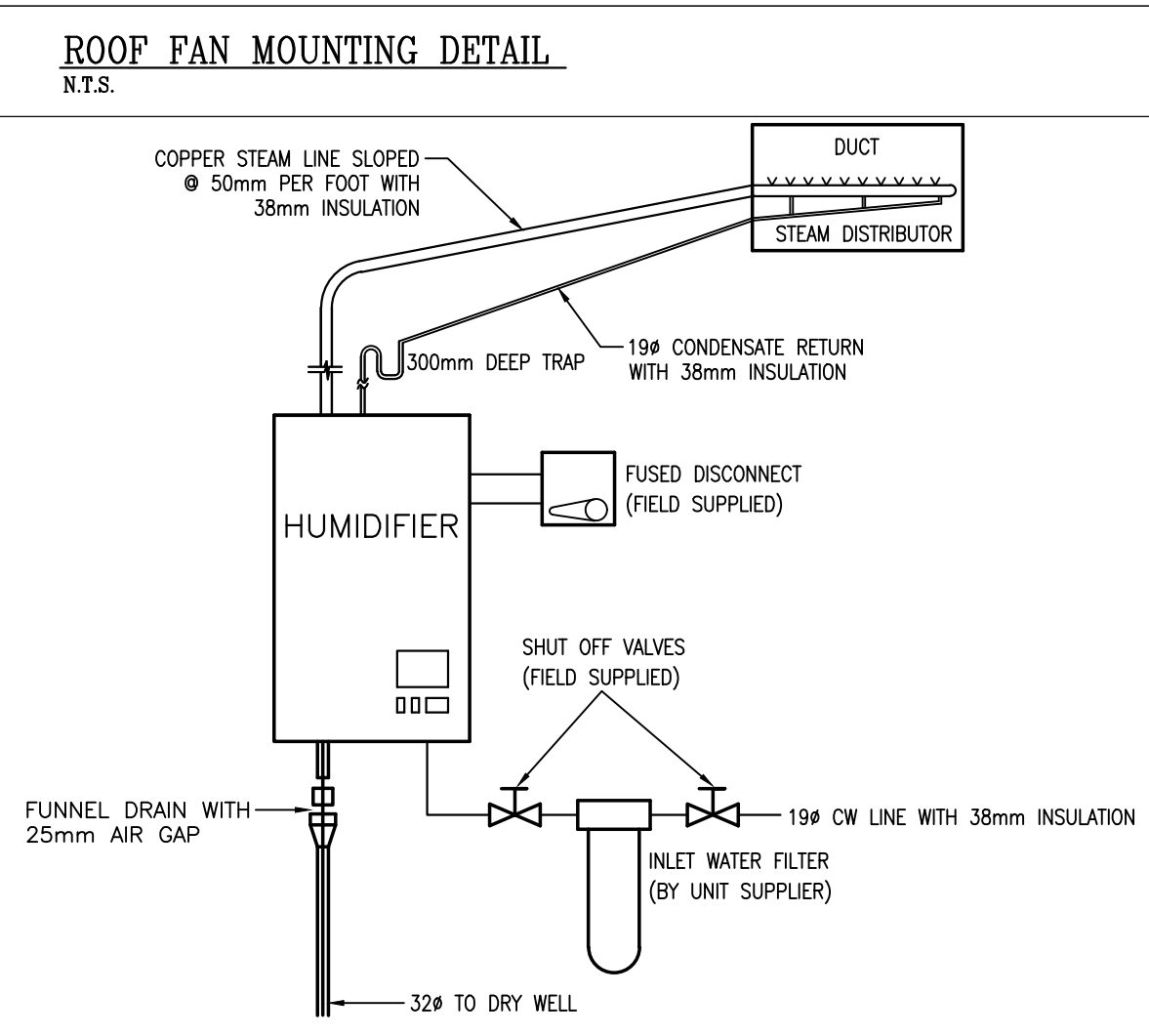
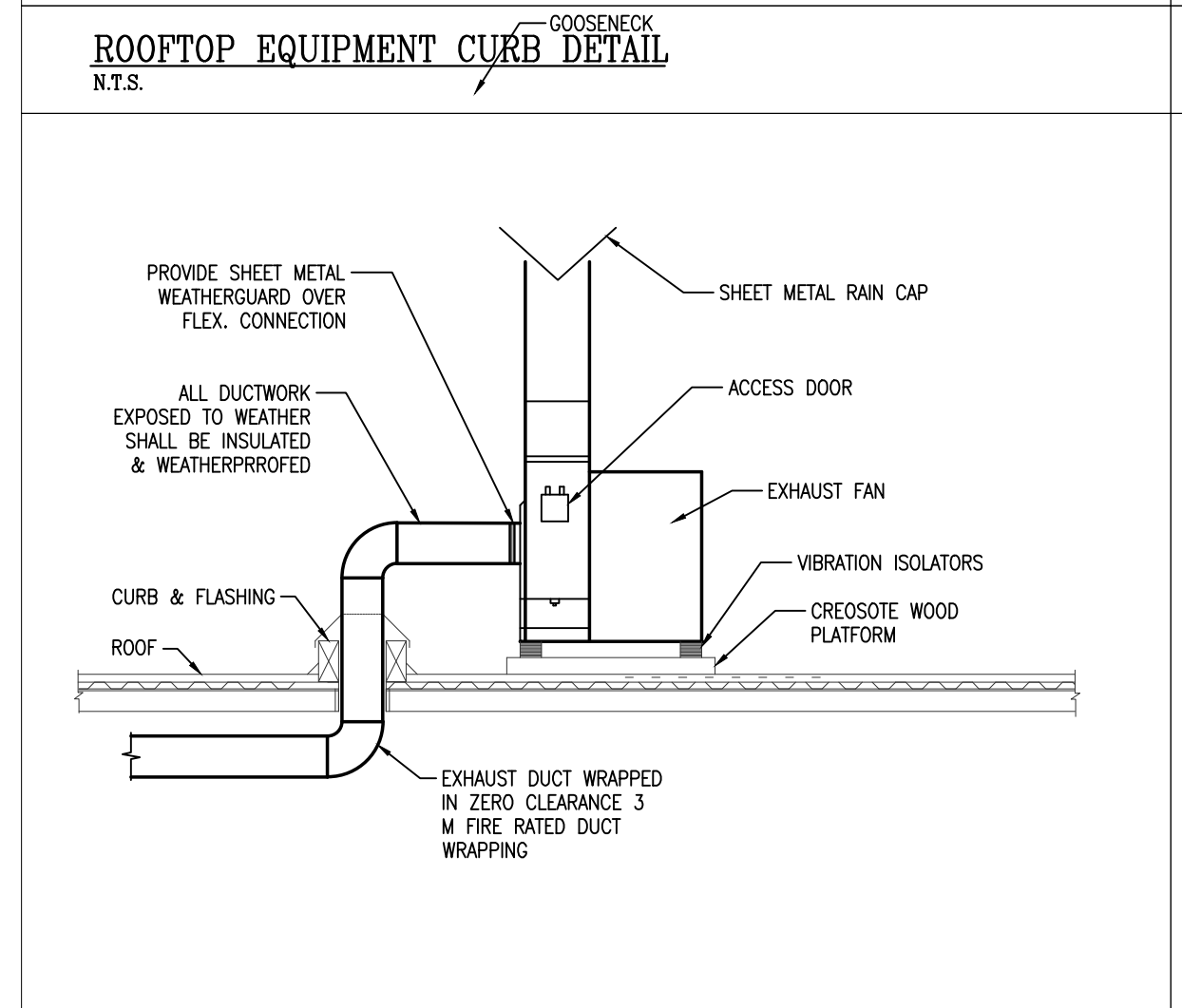
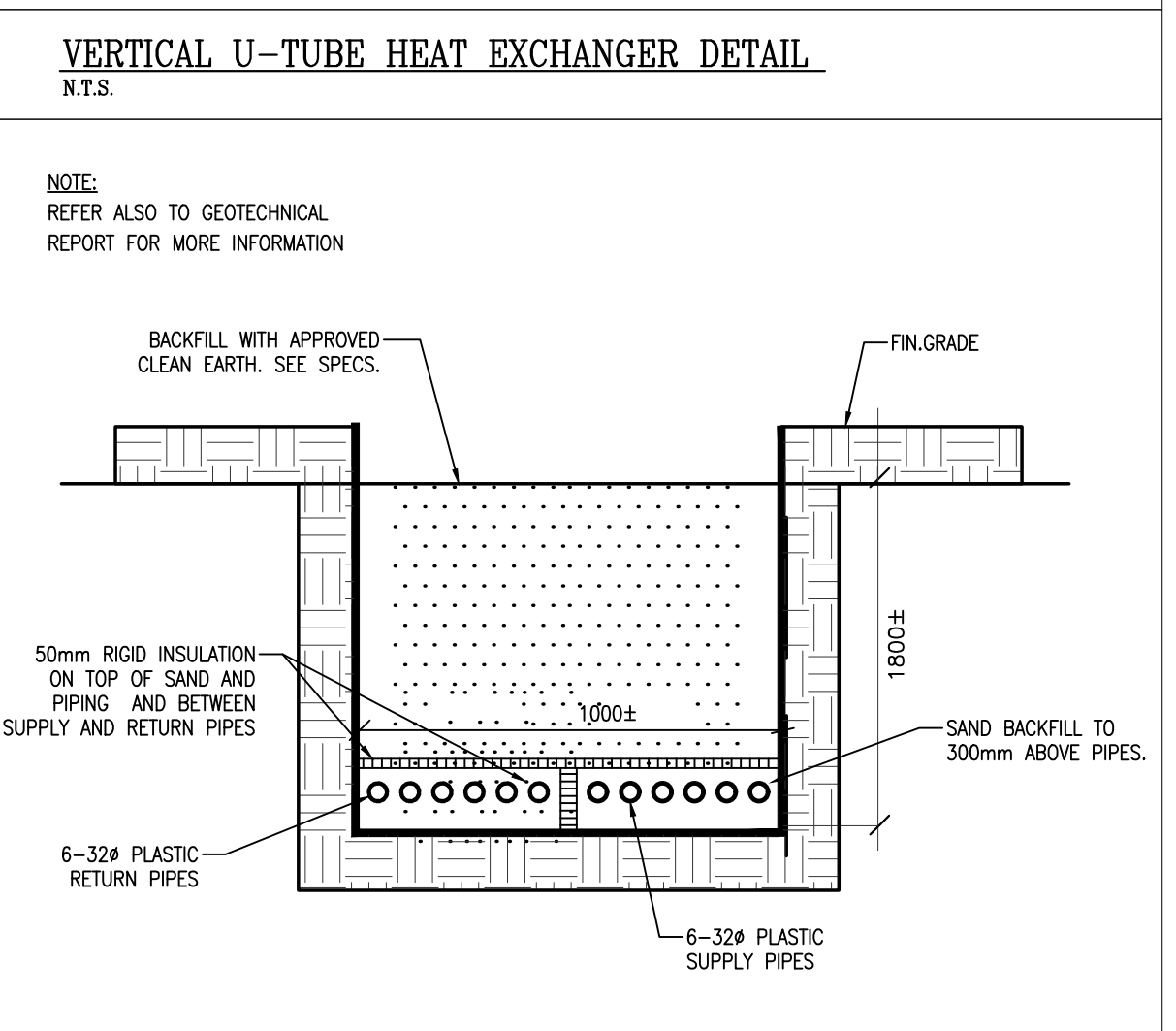
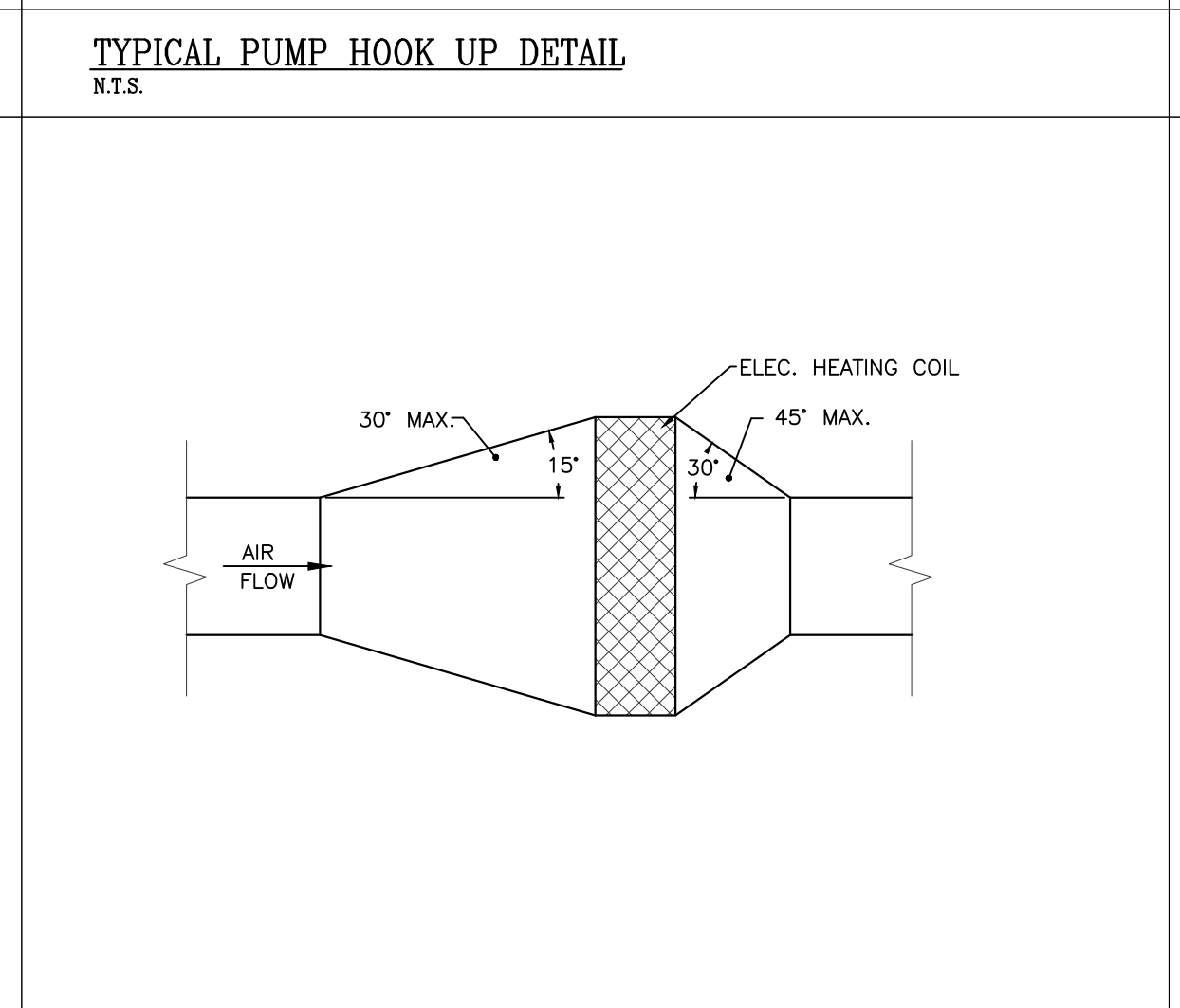
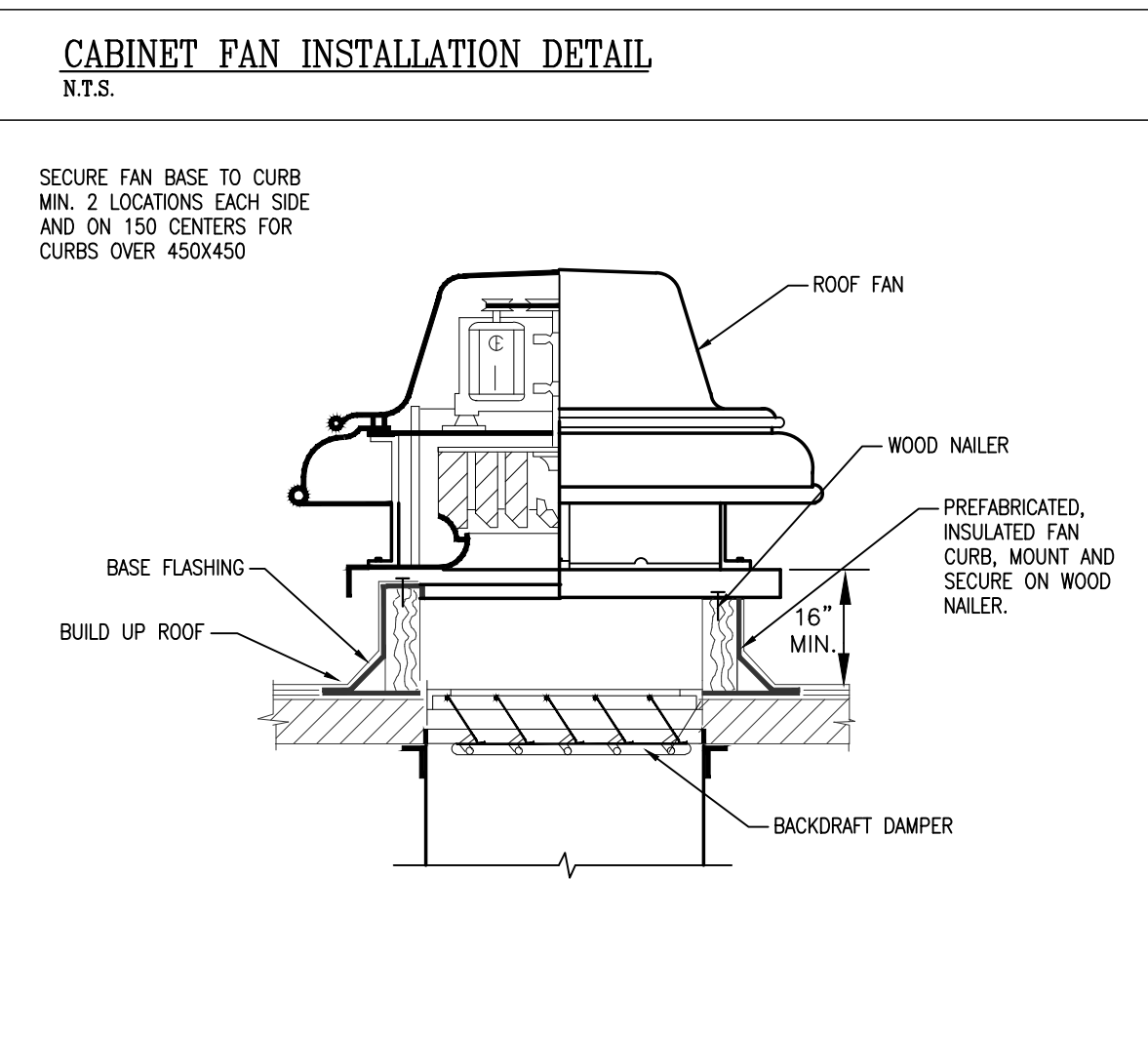
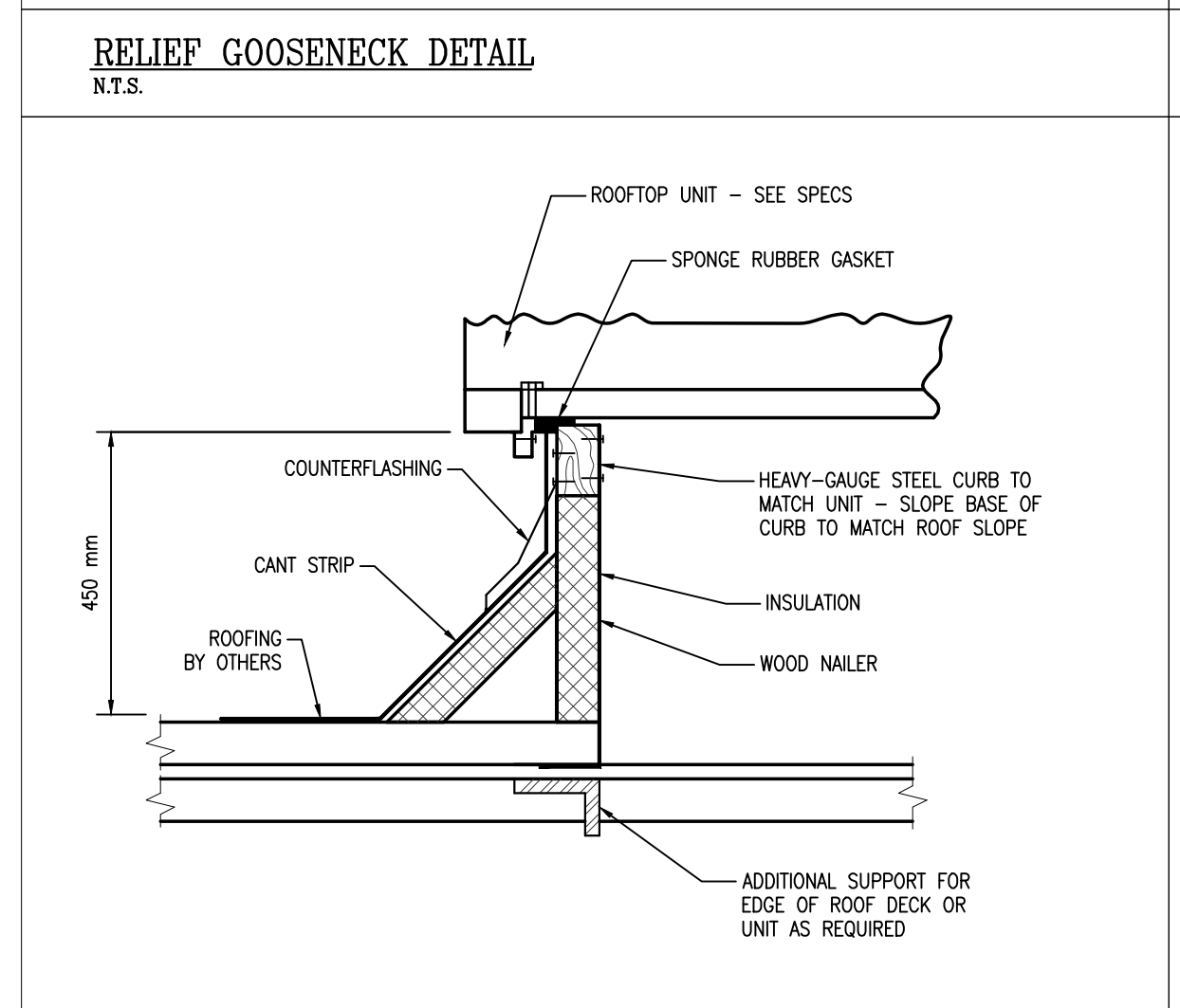
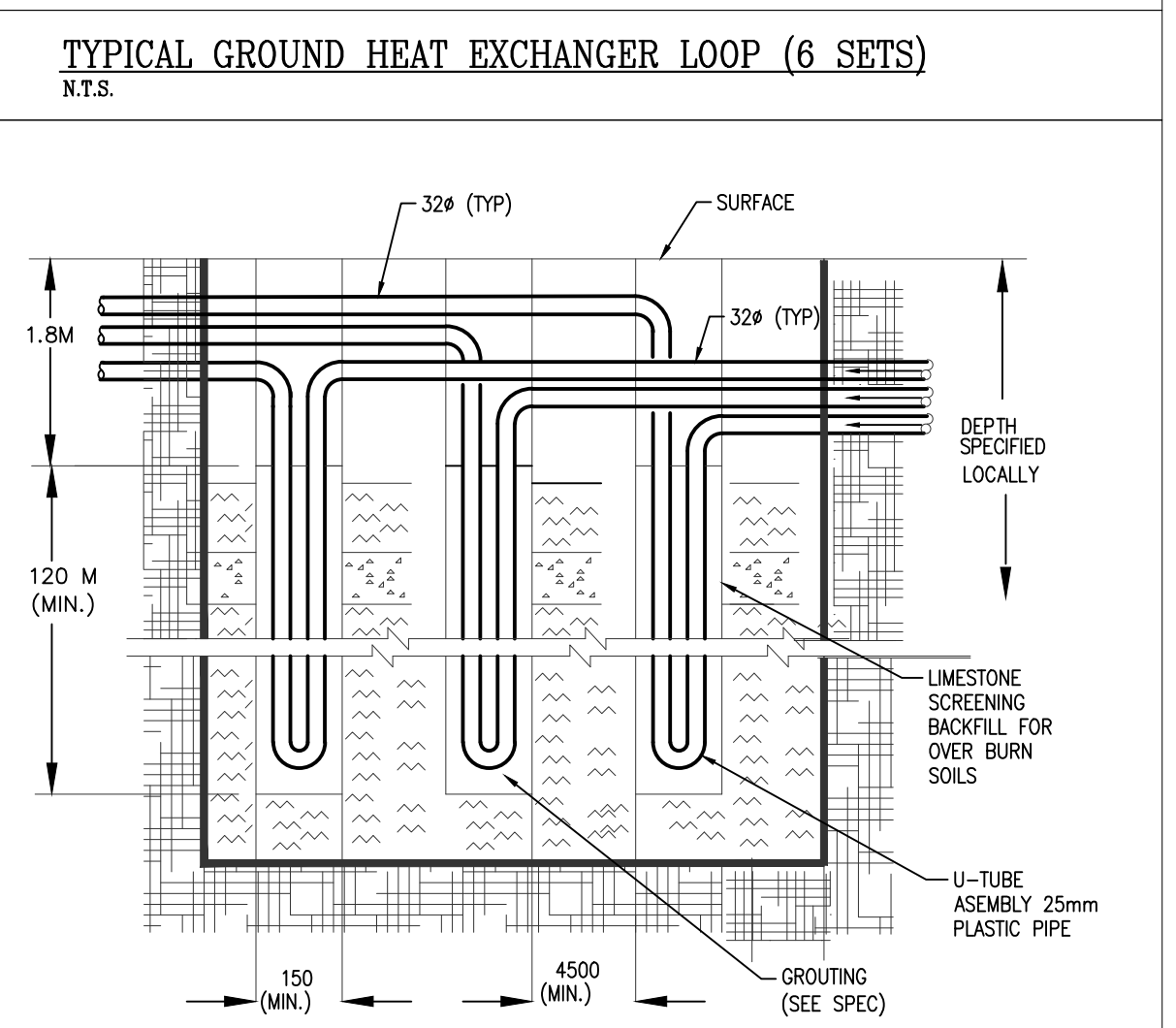
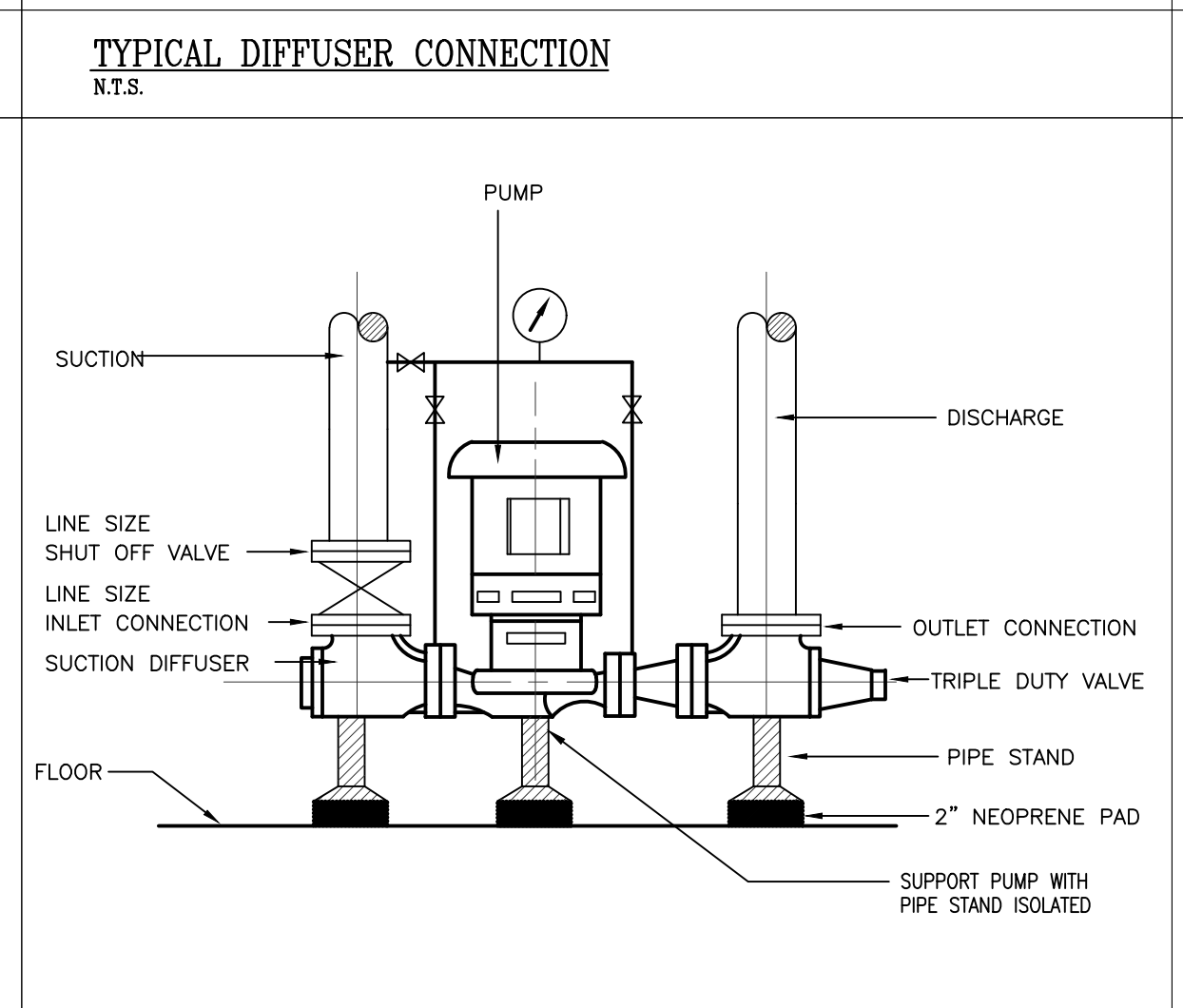
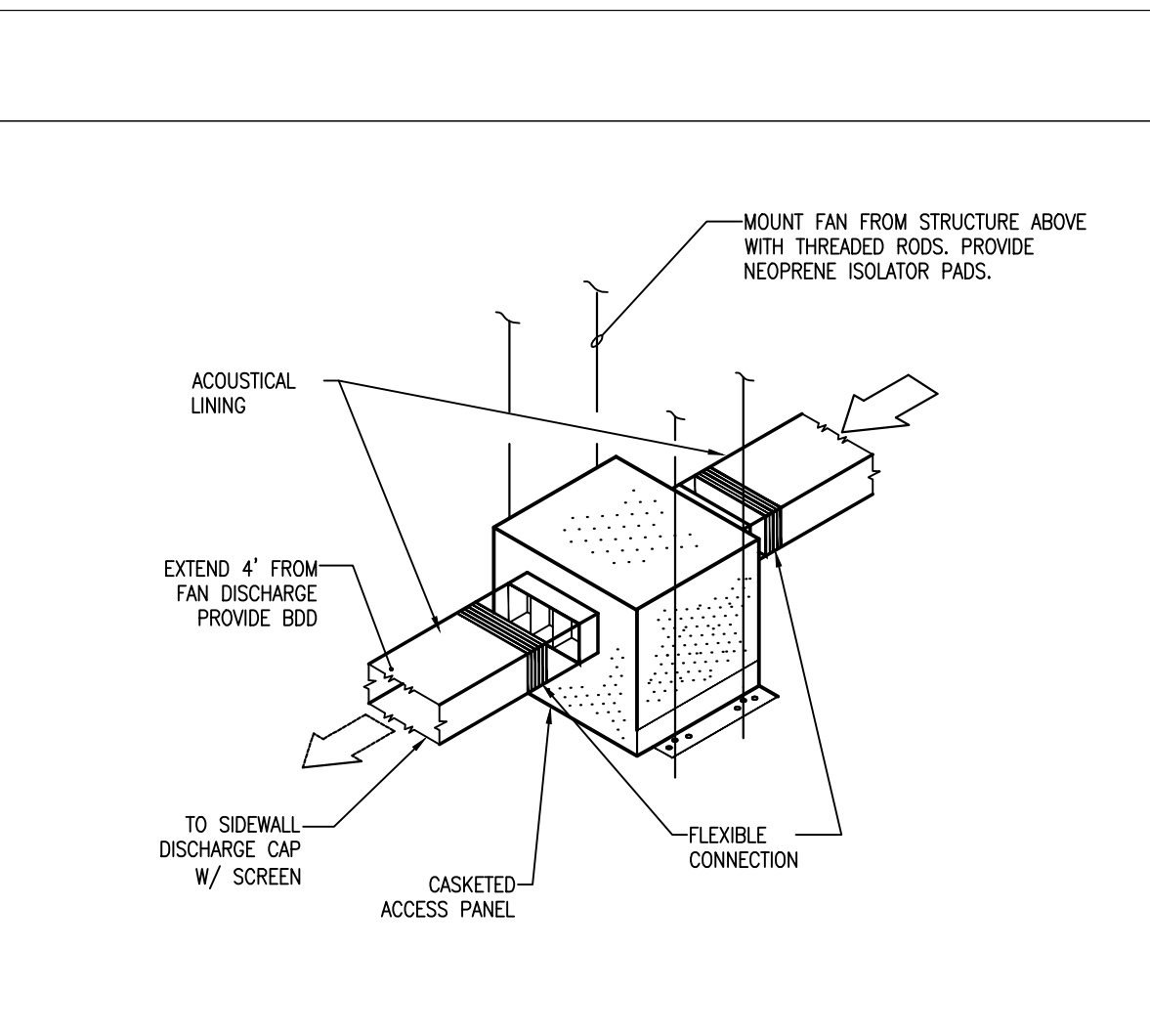
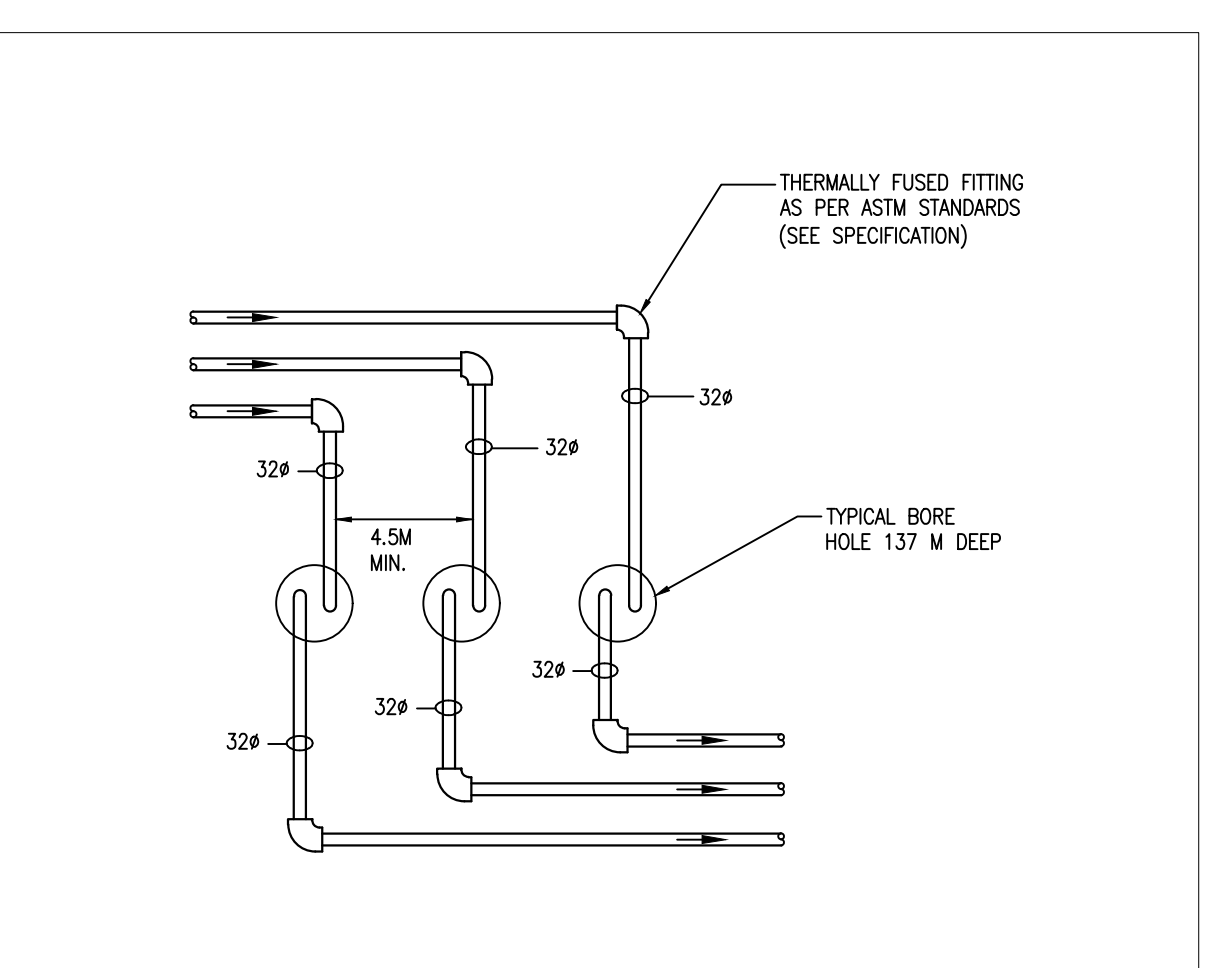
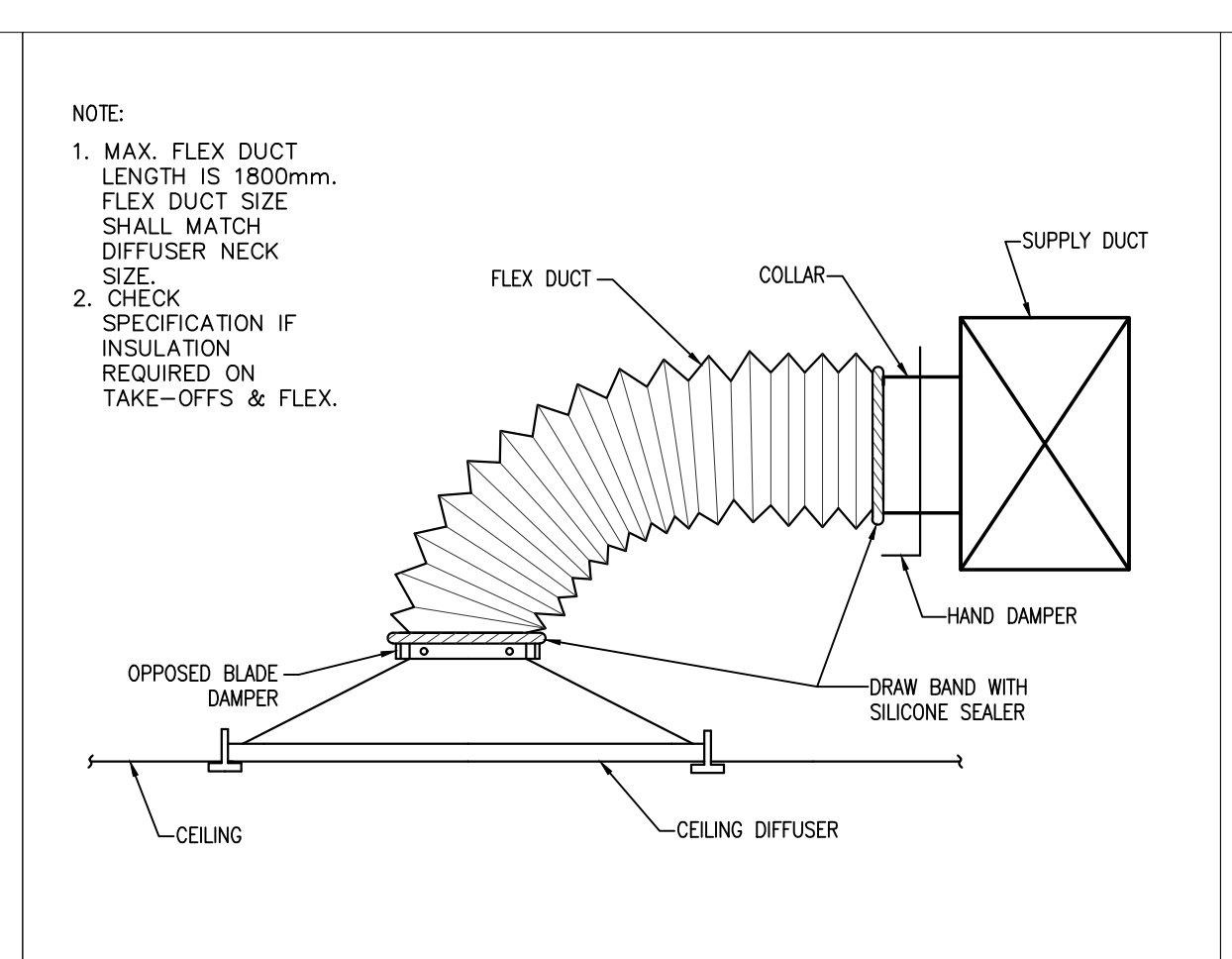
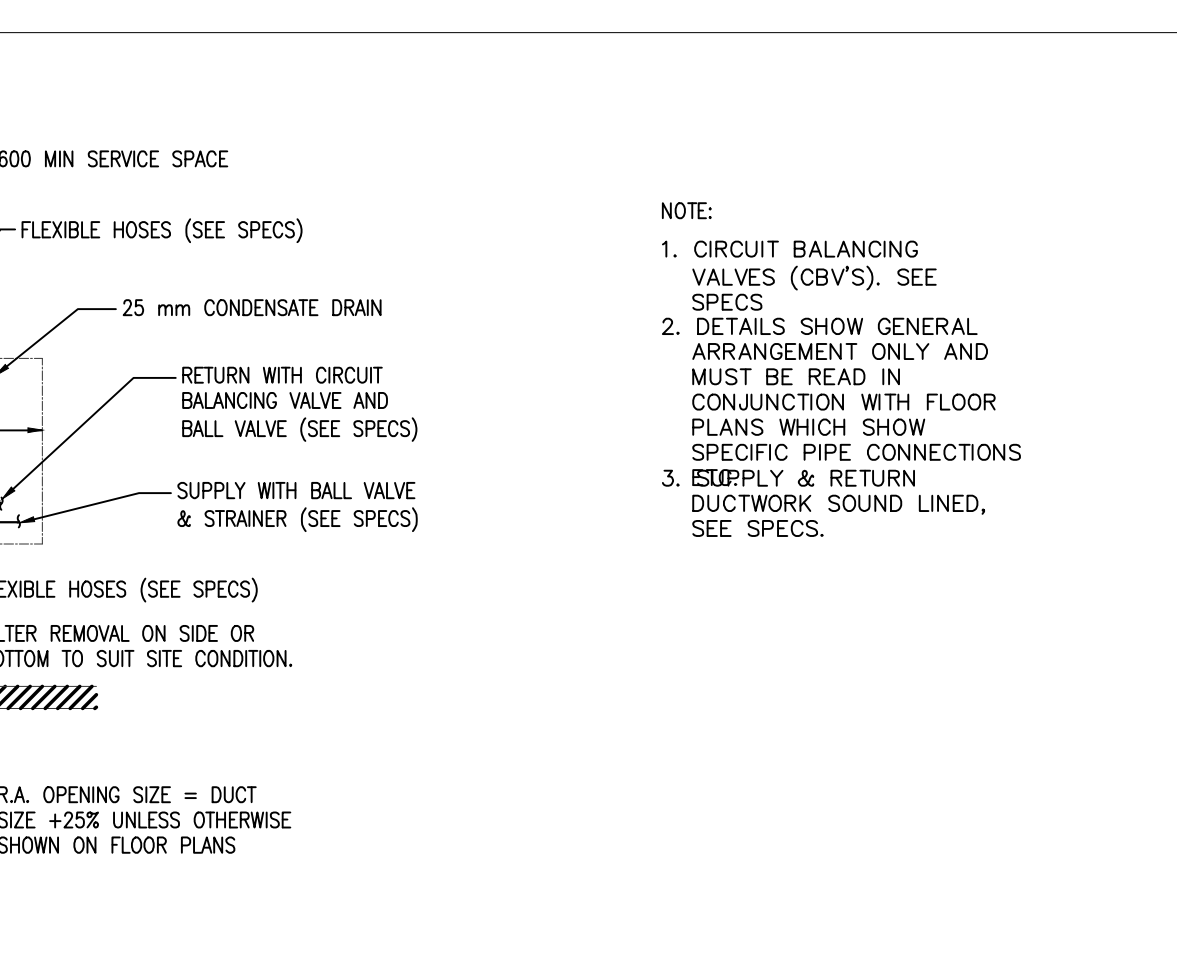
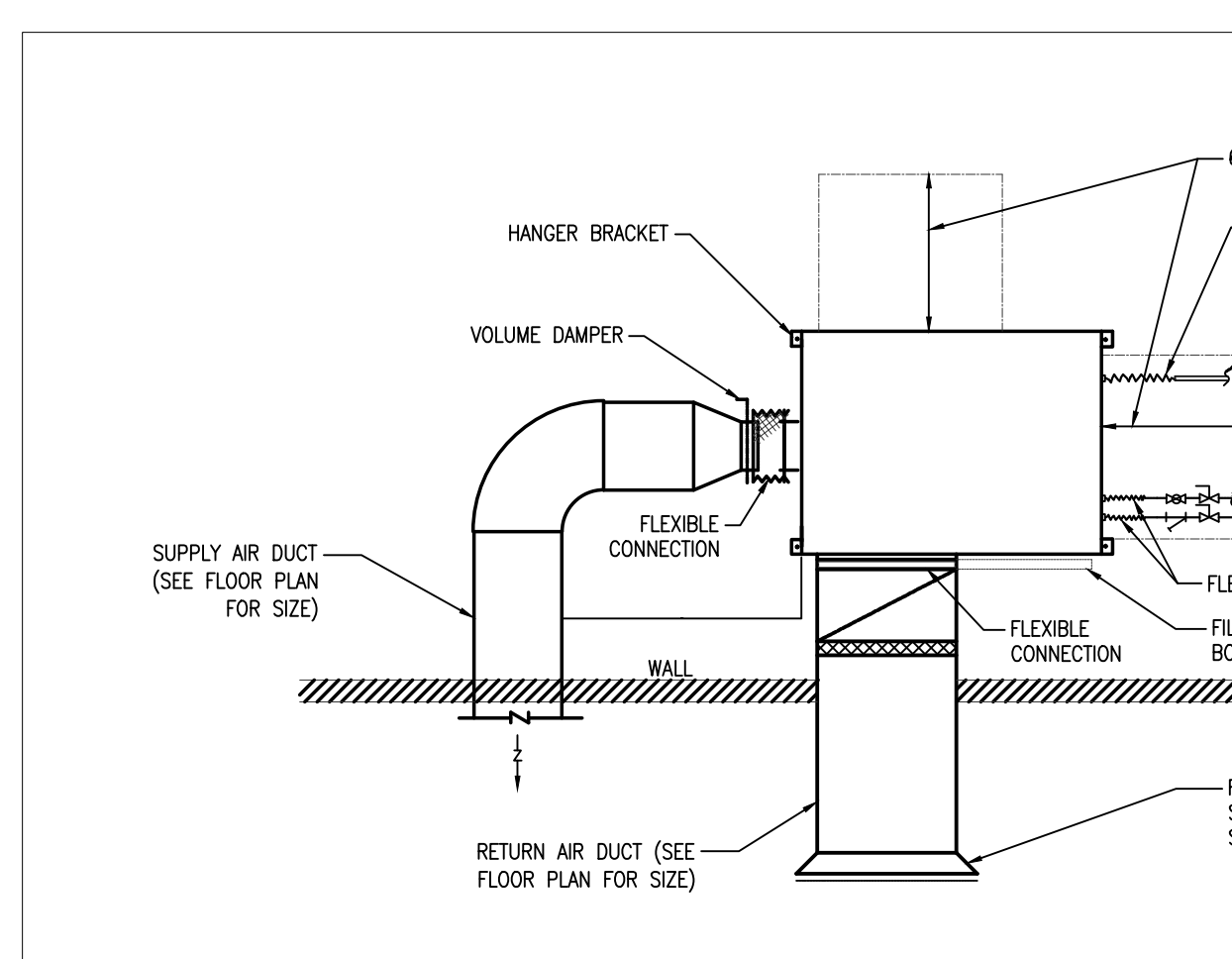
SCALE: As indicated DRAWN BY: JY

DWG STATUS: TENDER

PROJECT No.: 21-237

DRAWING No.: M2.6 REVISION

2021-12-03 12:03:37 PM



WATER TO WATER HEAT PUMP UNIT SCHEDULE													
UNIT TAG	AREA SERVED	HEATING CAPACITY (MBH)	WATER FLOW SOURCE (GPM)	WATER P.D. SOURCE (FT)	WATER FLOW LOAD (GPM)	WATER P.D. LOAD (FT)	ELECTRIC			MAKE	MODEL	UNIT WT (LBS)	REMARK
							V/PH/HZ	MCA	MOCP				
HP(W)-1	IN FLOOR HEATING	119.5	30	16.2	14	12.3	208/3/60	43	60	CARRIER	50PSW122	720	30% GLYCOL WATER TO WATER, HORIZONTAL, FLOOR MOUNTED
NOTE: WINTER: EFT=40°F SUMMER: EFT=100°F													

WATER SOURCE HEAT PUMP UNIT SCHEDULE															
UNIT TAG	AREA SERVED	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	AIR FLOW (CFM)	E.S.P. (INWC)	WATER FLOW (GPM)	WATER P.D. (FT)	ELECTRIC			MAKE	MODEL	FRESH AIR (CFM)	UNIT WT (LBS)	REMARK
								V/PH/HZ	MCA	TOTAL MFS					
HP-1	RECEPTION 102	5.5	5.3	200	0.33	1.5	2.5	208/1/60	4	15	CARRIER	50PCH007	25	96	HORIZONTAL
HP-2	CAPTAIN OFFICE 104	7.3	7.4	300	0.44	2.3	7.9	208/1/60	5	15	CARRIER	50PCH009	25	100	HORIZONTAL
HP-3	TRAINING ROOM 105	21.1	19.6	650	0.65	6.0	21.8	208/1/60	11	15	CARRIER	50PCH024	100	181	HORIZONTAL
HP-4	DORMITORY 109 & 113	5.5	5.3	300	0.33	1.5	2.5	208/1/60	4	15	CARRIER	50PCH007	25	96	HORIZONTAL
HP-5	CORRIDOR 101, 106, 108 & 114	21.1	19.6	650	0.65	6.0	21.8	208/1/60	11	15	CARRIER	50PCH024	150	181	HORIZONTAL
HP-6	DORMITORY 110, 111 & 112	7.3	7.4	300	0.44	2.3	7.9	208/1/60	5	15	CARRIER	50PCH009	35	100	HORIZONTAL
HP-7	EXERCISE ROOM 116	21.1	19.6	650	0.65	6.0	21.8	208/1/60	11	15	CARRIER	50PCH024	160	181	HORIZONTAL
HP-8	LOCKER ROOM 121	7.3	7.4	300	0.44	2.3	7.9	208/1/60	5	15	CARRIER	50PCH009	85	100	HORIZONTAL
HP-9	CREW LOUNGE 117	16.1	14.4	560	0.68	4.5	12.4	208/1/60	11	15	CARRIER	50PCH018	160	174	HORIZONTAL
HP-10	DINING 118 & KITCHEN 119	21.1	19.6	650	0.65	6.0	21.8	208/1/60	11	15	CARRIER	50PCH024	200	181	HORIZONTAL
HP-11	BUNKER GEAR 131 BUNKER GEAR WASHING 130	9.5	9.2	325	0.56	3.0	13.5	208/1/60	7	15	CARRIER	50PCH012	70	105	HORIZONTAL
HP-12	IT ROOM	7.3	7.4	300	0.44	2.3	7.9	208/1/60	5	15	CARRIER	50PCH009	15	100	HORIZONTAL
NOTE: WINTER: EFT=40°F SUMMER: EFT=100°F															

EXHAUST FAN SCHEDULE												
UNIT TAG	SERVICE AREA	VOLUME FLOW CFM	E.S.P. INWC	SPEED RPM	MOTOR AMPS	MOTOR WATTS	POWER SUPPLY V/PH/HZ	MAKE	MODEL	WEIGHT LBS	REMARKS	
HEF-1	HOOD EXHAUST (KITCHEN 119)	250	0.25	-	2.0	-	120/1/60	BROAN	ALLURE WS2			
EF-1	SPRINKLER ROOM 132	100	0.25	1550	-	79	120/1/60	PENN BARRY	ZEPHYR Z5H			
EF-2	ELECTRICAL ROOM 133	75	0.25	1050	-	47	120/1/60	PENN BARRY	ZEPHYR Z6S			
EF-3	MECHANICAL ROOM 200	150	0.25	1550	-	108	120/1/60	PENN BARRY	ZEPHYR Z6H		INTERLOCK WITH MOTORIZED DAMPER	
EF-4	JANITOR 127	50	0.25	1380	-	50	120/1/60	PENN BARRY	ZEPHYR ZL2			
EF-5	APPARATUS BAY 129	4750	0.5	511	-	2 KW	208/1/60	PENN BARRY	ZEPHYR ZC18			
EF-6	HOSE TOWER 134	200	0.375	1060	-	187	120/1/60	PENN BARRY	DOMEX DX06B			
EF-7	BUNKER GEAR WASHING 130	75	0.25	1050	-	47	120/1/60	PENN BARRY	ZEPHYR Z6S			
EF-8	BUNKER GEAR 131	150	0.25	1550	-	108	120/1/60	PENN BARRY	ZEPHYR Z6H			
EF-9	GARBAGE ROOM 136	50	0.25	1550	-	52	120/1/60	PENN BARRY	DOMEX DX06R			
EF-10	APPARATUS BAY 129	410-2540	11.6-3.8	3515	-	4 HP	208/3/60	NEDERMAN	NCF30/20	187	RD 0" STANDARD	
EF-11	CLEAN LAUNDRY 120	75	0.25	1050	-	47	120/1/60	PENN BARRY	ZEPHYR Z6S			
CF-1 TO CF-4	CEILING FAN NO. CF-1 TO CF-4 APPARATUS BAY 129	16800	-	-	-	157	120/1/60	WILCORP	60F (56")		C/W SPEED CONTROLLER AND FAN ENCLOSURE	

MANIFOLD SCHEDULE									
NAME	MANIFOLD TYPE	NUMBER OF CIRCUITS	TUBING SIZE	FLUID TYPE	SUPPLY TEMP (°F)	SUPPLY/RETURN DELTA-T (°F)	TOTAL FLOW (USGPM)	HEAD LOSS (FT WATER)	TOTAL LOAD (BTU/HR)
MANIFOLD 1	PRO-BALANCE 1" STAINLESS STEEL	7	5/8"	30-40% PROPYLENE GLYCOL	120	20	14	22	114,504

HEAT RECOVERY UNIT SCHEDULE																						
TAG	AREA SERVED	AIR FLOW RATE (CFM)		E.S.P. (INWC)	COOLING CAPACITY		HEATING CAPACITY (MBH)	HEAT RECOVERY						BLOWER MOTOR (HP)		ELECTRICAL HEATING (KW)	ELECTRICS			MAKE MODEL	APPROX. HEIGHT (LBS)	REMARKS
		SUPPLY	EXHAUST		TOTAL (MBH)	SENSIBLE (MBH)		O/A EDB/EWB °F (SUM.)	O/A LDB/LWB °F (SUM.)	E/A EDB °F (SUM.)	O/A EDB/EWB °F (WIN.)	O/A LDB/LWB °F (WIN.)	E/A EDB °F (WIN.)	SUPPLY	EXHAUST		V/PH/HZ	MCA	MOCP			
HRRU-1	WHOLE BUILDING	1450	1450	0.5	73.4	45.8	20.5	88.1 / 74.4	78.0 / 66.1	75	-4 / -5.3	52.8 / 43.6	72	1.0	1.0	12.3	208/3/60	74.2	80	VALENT VAE-112-368-5A-1-A1	3135	
1. PROVIDE FRESH AIR INTAKE HOOD & EXHAUST AIR DISCHARGE HOODS. 2. PROVIDE FRESH AIR MOTORIZED MODULATING DAMPERS. 3. PROVIDE VFD SPEED CONTROL THROUGH CO2 SENSORS FOR SUPPLY AND EXHAUST. 4. PROVIDE RETURN AIR FILTER SECTION. 5. PROVIDE FLEXIBLE DUCT CONNECTIONS. 6. PROVIDE NON FUSED DISCONNECT SWITCH.																						

ELECTRIC DUCT COIL SCHEDULE																								
TAG	SERVICE	AIR FLOW CFM	DUCT SIZE in x in	HEATING CAPACITY (KW)	VOLT/PH/HZ	TAG	SERVICE	AIR FLOW CFM	DUCT SIZE in x in	HEATING CAPACITY (KW)	VOLT/PH/HZ	TAG	SERVICE	AIR FLOW CFM	DUCT SIZE in x in	HEATING CAPACITY (KW)	VOLT/PH/HZ	TAG	SERVICE	AIR FLOW CFM	DUCT SIZE in x in	HEATING CAPACITY (KW)	VOLT/PH/HZ	REMARK
HC-1	HP-1	260	8x8	1.0	208/1/60	HC-2	HP-2	300	8x8	1.3	208/1/60	HC-3	HP-3	800	14x10	2.5	208/3/60	HC-4	HP-4	260	8x8	1.0	208/1/60	ALL ELECTRICAL DUCT COILS WILL BE PROVIDED BY MECHANICAL (DIVISION 15). ELECTRICAL CONTRACT WILL CONNECT DUCT COILS TO POWER.
HC-5	HP-5	800	14x10	4.5	208/3/60	HC-6	HP-6	300	8x8	1.0	208/1/60	HC-7	HP-7	800	14x10	4.5	208/3/60	HC-8	HP-8	300	8x8	1.0	208/1/60	
HC-9	HP-9	600	12x10	2.4	208/3/60	HC-10	HP-10	800	14x10	2.5	208/3/60	HC-11	HP-12	260	8x8	1.0	208/1/60							

HUMIDIFIER SCHEDULE											
NO.	SYSTEM SERVED	MAKE & MODEL	DISCHARGE CAPACITY LBS / HR	WATER INLET PSIG	POWER KW	ELECTRICAL DATA			FULL WEIGHT (LBS)	REMARKS	
						V/PH/HZ	MCA	MOCP			
HU-1	HRRU-1	CONDAR EL 50	50	30 - 80	18.7	280/3/60	51.9	70	150		

CIRCULATING PUMP SCHEDULE										
TAG	SYSTEM SERVED	SIZE	FLOW GPM	HEAD FT	MOTOR			DUTY	MAKE & MODEL	REMARKS
					HP	R.P.M.	V/PH/HZ			
P-1	CIRCULATING PUMP	2x2x8 VERTICAL-IN-LINE	74	65	3	1800	208/3/60	RUNNING	ARMSTRONG 4300	FLUID: 30% PROPYLENE GLYCOL
P-2	CIRCULATING PUMP	2x2x8 VERTICAL-IN-LINE	74	65	3	1800	208/3/60	STAND BY	ARMSTRONG 4300	FLUID: 30% PROPYLENE GLYCOL
P-3	IN-FLOOR HEATING CIRCULATING PUMP	H64	14	38	1	1800	208/1/60	RUNNING	SERIES H H64	FLUID: 30% PROPYLENE GLYCOL
P-4	IN-FLOOR HEATING CIRCULATING PUMP	H64	14	38	1	1800	208/1/60	STAND BY	SERIES H H64	FLUID: 30% PROPYLENE GLYCOL

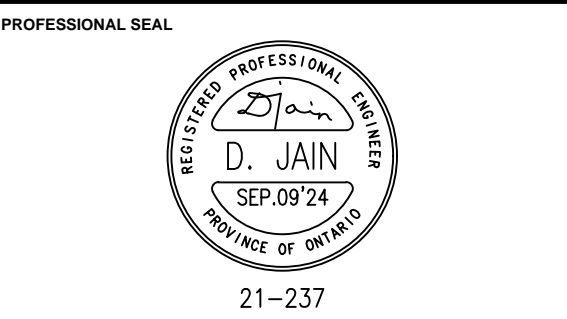
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ISSUE OR REVISION		
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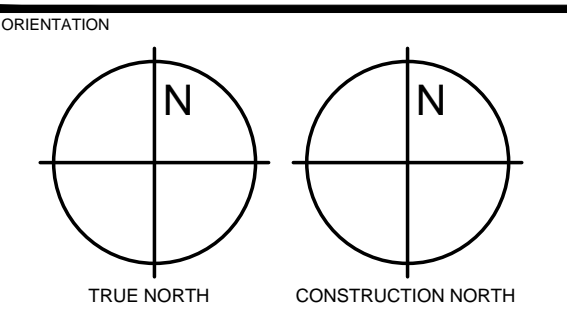
PROJECT:
CITY OF VAUGHAN FIRE STATION 7-12
 CLIENT:
 9511 WESTON ROAD, VAUGHAN

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DWG TITLE: **SCHEDULES**



DATE: 2022-06-24

SCALE: As indicated DRAWN BY: JY

PROJECT No.: TENDER

DRAWING No.: 21-237

REVISION: **M2.7**

2021-12-03 12:03:37 PM

NO.	ISSUE OR REVISION	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING		2022.07.07
2	BUILDING PERMIT		2023.09.07
3	CITY COMMENTS		2023.11.10
4	TENDER		2024.04.15
5	CONSTRUCTION		2024.09.09

**CITY OF VAUGHAN FIRE
STATION 7-12**

9541 WESTON ROAD, VAUGHAN



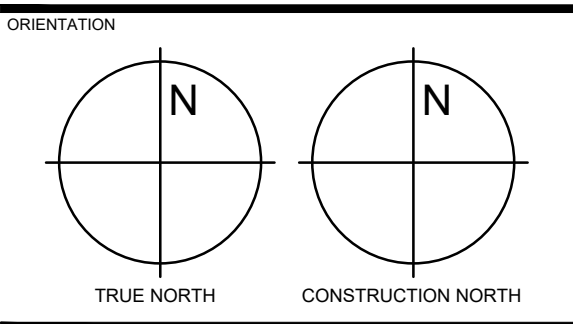
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DWG TITLE

**FLOOR PLAN
- SPRINKLERS -**



DATE: 2021-11-24

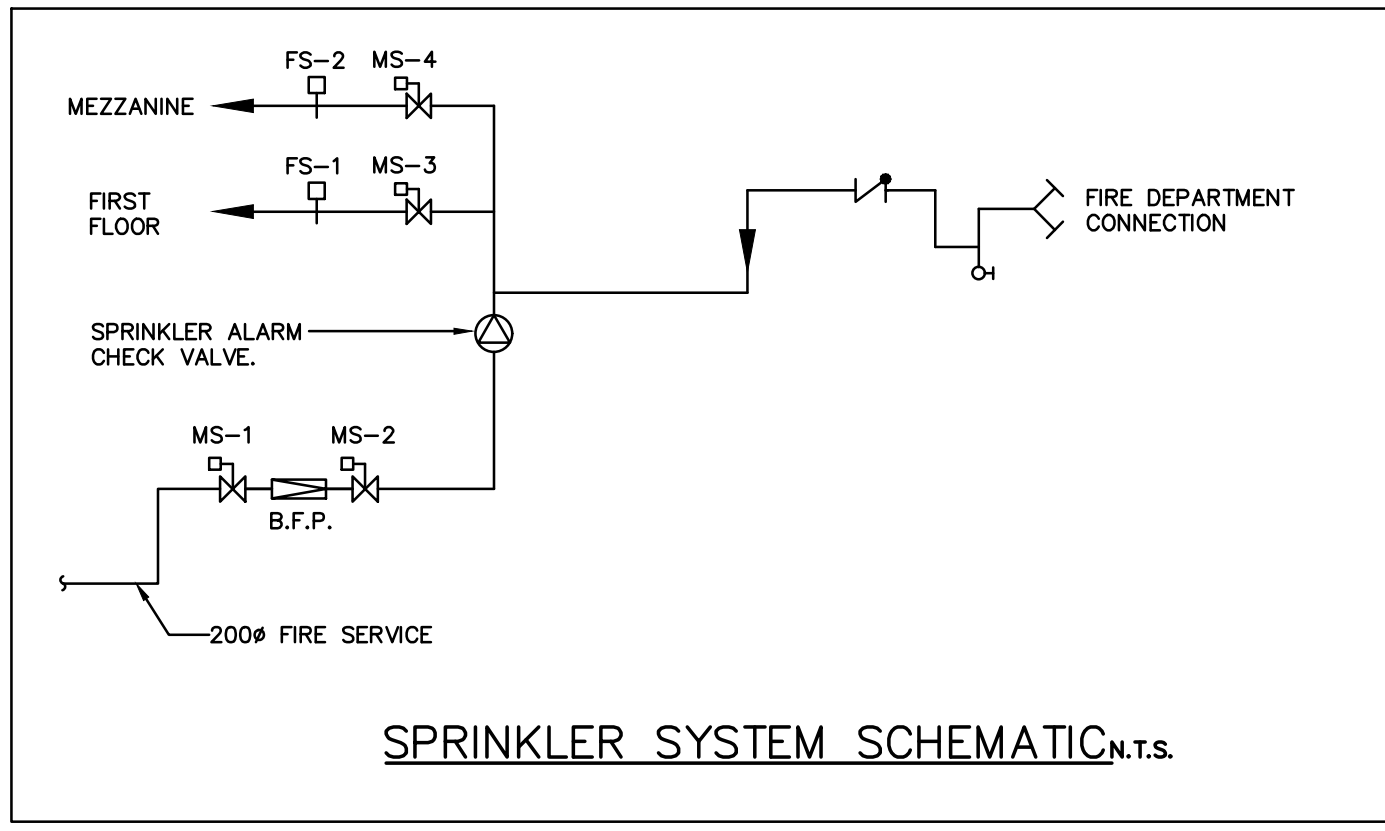
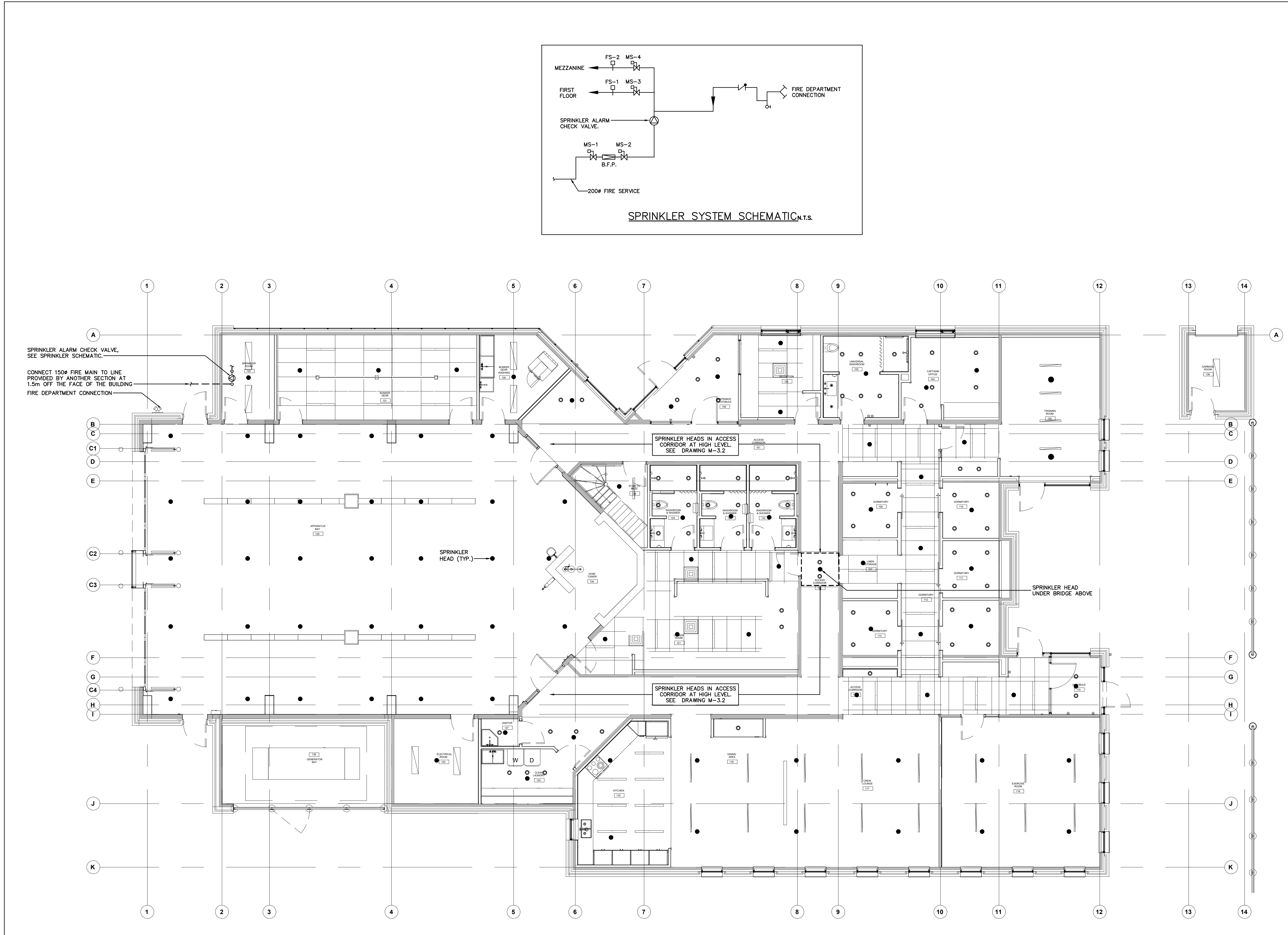
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DWG STATUS: CONSTRUCTION

PROJECT No: 2104

DRAWING No: **M-3.1** REVISION: 05

2022-06-20 2:29:07 PM



SPRINKLER ALARM CHECK VALVE, SEE SPRINKLER SCHEMATIC.
CONNECT 150# FIRE MAIN TO LINE PROVIDED BY ANOTHER SECTION AT 1.5m OFF THE FACE OF THE BUILDING FIRE DEPARTMENT CONNECTION

NO.	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING	2022.07.07
2	BUILDING PERMIT	2023.09.07
3	CITY COMMENTS	2023.11.10
4	TENDER	2024.04.15
5	CONSTRUCTION	2024.09.09

PROJECT:
**CITY OF VAUGHAN FIRE
STATION 7-12**
CLIENT:
9541 WESTON ROAD, VAUGHAN



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PROFESSIONAL SEAL



21-237

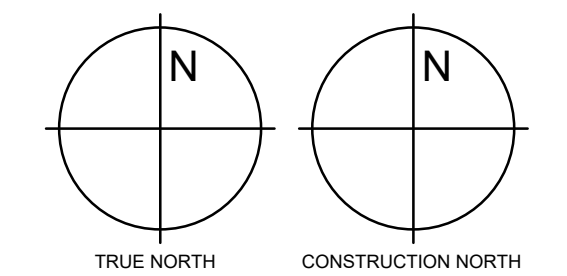


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DWG TITLE

**MEZZANINE PLAN
- SPRINKLERS -**

ORIENTATION



DATE: 2021-11-24

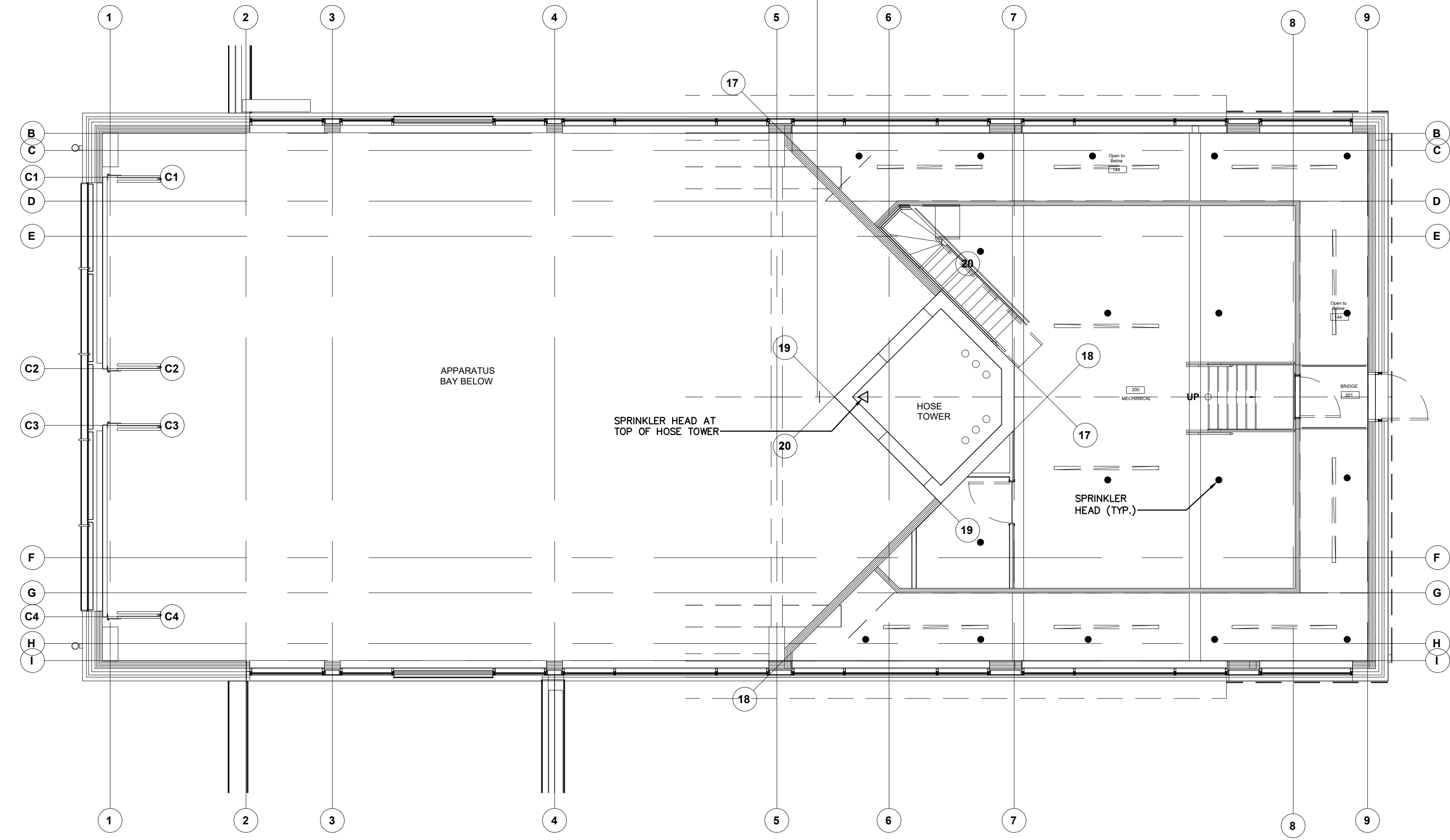
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DWG STATUS: CONSTRUCTION

PROJECT No: 2104

DRAWING No: **M-3.2** REVISION: 05

2022-06-20 2:29:07 PM



LEGEND	
	LED LIGHT FIXTURE - LETTER DENOTES TYPE
	LED, CEILING FIXTURE - LETTER DENOTES TYPE
	LED, LIGHT FIXTURE 24/7 'ON' NIGHT LIGHT FIXTURE
	LIGHT STANDARD
	LED WALL FIXTURE - LETTER DENOTES TYPE
	EXIT LIGHT FIXTURE WALL OR CEILING MOUNTED, PICTOGRAM TYPE - SHADED AREA DENOTES FACE
	EMERGENCY LIGHTING TYPE 1 (SINGLE HEAD) & TYPE 2 (DOUBLE HEADS), LED, 24V, 7W PER HEAD, BAGHELLI BTMR-MR16-LED-7W/HEAD-24V OR APPROVED EQUAL EXCEPT FOR APPARATUS BAY & EMS BAY AREAS. BAGHELLI SEA SERIES-MR16-LED-7W/HEAD-WEATHERPROOF-NEMA 4X OR APPROVED EQUAL SUITABLE FOR WET LOCATIONS SHALL BE PROVIDED FOR APPARATUS BAY & EMS BAY AREAS.
	EMERGENCY LIGHTING TYPE 1 (SINGLE HEAD) & TYPE 2 (DOUBLE HEADS), LED, 24V, 7W PER HEAD, WEATHERPROOF, BAGHELLI SEA SERIES-MR16-LED-7W/HEAD-WEATHERPROOF-NEMA 4X OR APPROVED EQUAL SUITABLE FOR WET LOCATIONS.
	EMERGENCY LIGHTING BATTERY UNIT, 24V, (BAGHELLI/NOVA-NV-24-WATTAGE AS SHOWN ON DRAWINGS OR APPROVED EQUAL), SUITABLE FOR 120V INPUT VOLTAGE UNLESS NOTED OTHERWISE.
	STANDARD 15A 120V 1P DUPLEX RECEPTACLE. 'TR' DENOTES TAMPER RESISTANT TYPE.
	STANDARD DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER. 'TR' DENOTES TAMPER RESISTANT TYPE.
	STANDARD DUPLEX RECEPTACLE 15A/20A (SPLIT FEED).
	STANDARD DUPLEX RECEPTACLE (SPLIT FEED) MOUNTED ABOVE COUNTER.
	G.F.J DUPLEX RECEPTACLE. 'TR' DENOTES TAMPER RESISTANT TYPE.
	G.F.J DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER. 'TR' DENOTES TAMPER RESISTANT TYPE.
	15A QUAD. RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT. 'TR' DENOTES TAMPER RESISTANT.
	G.F.J QUAD. RECEPTACLE MOUNTED ABOVE COUNTER. 'TR' DENOTES TAMPER RESISTANT.
	CEILING MOUNTED DUPLEX RECEPTACLE
	15A/20A 2-SLOT RECEPTACLE ON 20A CIRCUIT. 'TR' DENOTES TAMPER RESISTANT.
	LS-20R TWIST LOCK RECEPTACLE BLACK IN COLOUR WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT FOR FEEDING POWER TO UPS OF I.T. RACK.
	LS-20RA. 20A RECEPTACLE BLACK IN COLOUR WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT FOR FEEDING POWER TO UPS OF I.T. RACK.
	120V, 15A CEILING MOUNTED EXTENSION CORD REEL C/W DUPLEX RECEPTACLE AND OUTLET BOX (HUBBELL# HBL45123R + HBL52520T) C/W SUPPORTING SYSTEM. CO-ORDINATE ON SITE FOR EXACT LOCATION/ MORE INFORMATION AND PROCEED ACCORDINGLY.
	TAMPER RESISTANT US CHARGER DUPLEX RECEPTACLE, 125V, 15A, 2-POLE, 3W, 5-15R (HUBBELL# USB 15X2 OR ATOM HAT (COOPER# TR745))
	3-POLE, 250V RECEPTACLE 14-20R FOR UPS RACK
	3-POLE, 250V RECEPTACLE 14-30R FOR DRYER
	3-POLE, 250V RECEPTACLE 14-50R FOR RANGE
	SPECIAL OUTLET AS NOTED
	SINGLE POLE LIGHT SWITCH UNLESS NOTED OTHERWISE.
	KEYED SWITCH TO OPEN WASHROOM DOOR IN CASE OF EMERGENCY.
	THREE WAY LIGHT SWITCH
	FOUR WAY LIGHT SWITCH
	1-BUTTON LOW VOLTAGE DLM TYPE LIGHT SWITCH (TYP.) UNLESS NOTED OTHERWISE.
	4-BUTTON LOW VOLTAGE DLM TYPE LIGHT SWITCH (TYP.)
	ELECTRIC HEATING UNIT, NO. DENOTES TYPE
	DOOR OPERATOR PUSH BUTTON UNLESS NOTED OTHERWISE
	REQUEST TO EXIT DEVICE
	PUSH TO LOCK BUTTON
	PANELBOARD
	MOTOR STARTER. LETTER 'F' DENOTES FLUSH MTD, 'P' = PILOT LIGHT, 'S' = SURFACE MTD. EF-3 = EQUIPMENT CONTROLLED BY STARTER
	DISCONNECT SWITCH - WP DENOTES WEATHERPROOF
	COMBINATION MOTOR STARTER AND DISCONNECT
	MOTOR OUTLET AS NOTED
	MOTOR & DISCONNECT SWITCH TO SUIT
	RECESSED P.A. SPEAKER RECESSED, WALL MOUNTED. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.
	SURFACE MOUNTED P.A. SPEAKER. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.
	EXTERIOR TYPE P.A. SPEAKER, WALL MOUNTED. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.
	PA CONSOLE/MICROPHONE. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.
	MICROPHONE OUTLET
	WATT STOPPER LMDX-100 OCCUPANCY/VACANCY SENSOR, DUAL TECH WALL CORNER MOUNT/CEILING MOUNT C/W ROOM CONTROLLERS AS REQUIRED. LIGHTING CONTROL TO BE MANUAL-ON, AUTO-OFF.
	WATT STOPPER DW-100-120 DUAL TECHNOLOGY WALLSWITCH SENSOR LINE VOLTAGE (AUTO-ON, AUTO-OFF).
	WATT STOPPER LMUC-100 OCCUPANCY SENSOR, ULTRA SONIC CEILING MOUNT C/W ROOM CONTROLLERS AS REQUIRED.
	WALL MOUNTED DUAL TECHNOLOGY TWO RELAY LINE VOLTAGE OCCUPANCY SENSOR. WATT STOPPER DW-200-120 (MANUAL-ON, AUTO-OFF)
	WATT STOPPER LMDc-100 OCCUPANCY/VACANCY SENSOR, DUAL TECH CEILING MOUNT, 360 DEGREES C/W ROOM CONTROLLERS AS REQUIRED. LIGHTING CONTROL TO BE MANUAL-ON, AUTO-OFF.
	WATT STOPPER LMDX-100 VACANCY SENSOR, DUAL TECH WALL CORNER MOUNT/CEILING MOUNT C/W ROOM CONTROLLERS AS REQUIRED.
	WATT STOPPER LMDc-100 OCCUPANCY/VACANCY SENSOR, DUAL TECH CEILING MOUNT, 360 DEGREES C/W ROOM CONTROLLERS AS REQUIRED. LIGHTING CONTROL TO BE AUTO-ON, AUTO-OFF.
	WATT STOPPER LMLS-500 OPEN LOOP DAYLIGHT SENSOR.
	BATTERY OPERATED CLOCK (12" DIA. SEMI FLUSH, BATTERY OPERATED, BLACK/RED 24 HOUR DIA. AND GREY CASE WITH SYMMETRY HANDS. EDWARDS MODEL# 18B5A SERIES OR SIMPLX.
	CEILING MOUNTED A/V OUTLET FOR PROJECTOR
	VGA MONITOR OUTLET C/W 21 mm. to CEILING MOUNTED AV OUTLET.
	CABLE TV OUTLET C/W 21MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR.
	COUNTDOWN CLOCK-FIRE STATION ALERT SYSTEM

LEGEND (CONTD.)	
	RECESSED FLOOR BOX C/W COVER AND DEVICES AS PER LAYOUT DWGS. WIREMOLD RFB-SS SERIES, FINISH TO ARCHITECT SELECTION.
	EMERGENCY PUSH BUTTON (CAMDEN 5/8" MUSHROOM, STAINLESS STEEL FACIPLATE, PUSH/PULL, 'PRESS FOR ASSISTANCE', CM-450R/12) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WEC10). THE EMERGENCY PUSH BUTTON SHALL BE MOUNTED ON A SINGLE GANG BOX. REFER FLOOR PLAN DWGS. FOR MORE INFORMATION.
	SINGLE GANG LED ANNUNCIATOR C/W SOUNDER, 'ASSISTANCE REQUESTED' (CAMDEN: CM-AF50150) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WEC10). REFER FLOOR PLAN DWGS. FOR MORE INFORMATION.
	SINGLE GANG DOME LIGHT WITH SOUNDER, 'ASSISTANCE REQUIRED' (CAMDEN: CM-AF14050) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WEC10). REFER FLOOR PLAN DWGS. FOR MORE INFORMATION.
	FIRE ALARM MANUAL STATION C/W PLASTIC COVER WITH LOCAL HORN - LETTERS WG DENOTES C/W WIREGUARD
	AUTOMATIC FIRE DETECTOR RATE OF RISE 135 DEG. F. UNLESS NOTED OTHERWISE - NUMBER DENOTES ZONE, LETTER G DENOTES GUARD
	AUTOMATIC FIRE DETECTOR - FIXED TEMPERATURE AS NOTED FIRE ALARM HORN. 'S' DENOTES C/W STROBE LIGHT, 'WG' - WIRE GUARD
	PHOTO ELECTRIC SMOKE DETECTOR
	ALARM DUCT TYPE SMOKE DETECTOR
	120V AC 3-IN-1 LED STROBE SMOKE ALARM/CO (THREE IN ONE) C/W STROBE & 10 YEAR SEALED BATTERY BACK-UP (MIDEX#4610ACLEDSS00CA).
	END-OF-LINE RESISTOR
	FIRE ALARM HORN. 'S' DENOTES C/W STROBE LIGHT.
	FIRE ALARM STROBE.
	FLOW SWITCH-SPRINKLER SYSTEM
	SUPERVISORY ZONE SWITCH-SPRINKLER SYSTEM
	120V CARBON MONOXIDE DETECTOR C/W BATTERY BACK-UP AND AUXILIARY CONTACTS TO INITIATE A DEDICATED SUPERVISORY ZONE IN FIRE ALARM SYSTEM.
	TELEPHONE/DATA OUTLET C/W JACK & CABLE & 21mm EMT CONDUIT TO I.T. ROOM AT MEZZANINE LEVEL. REFER SPECIFICATIONS FOR MORE INFORMATION.
	DATA OUTLET C/W JACK & CABLE & 21mm EMT CONDUIT TO I.T. ROOM AT MEZZANINE LEVEL. NO. DENOTES NUMBER OF DATA DROPS. REFER SPECIFICATIONS FOR MORE INFORMATION.
	TELEPHONE OUTLET C/W JACK & CABLE & 21mm EMT CONDUIT TO I.T. ROOM AT MEZZANINE LEVEL. REFER SPECIFICATIONS FOR MORE INFORMATION.
	CEILING MOUNTED WIRELESS ACCESS POINT CONSISTING OF A DATA DROP C/W 27MM CONDUIT & WIRING TO I.T. ROOM AT MEZZANINE LEVEL. REFER SPECIFICATIONS FOR MORE INFORMATION.
	DOOR ELECTRIC STRIKE
	KEY OVERRIDE SWITCH TO OVERRIDE ELECTRIC STRIKE
	SECURITY KEY PAD C/W 16MM CONDUIT SECURITY PANEL IN I.T. ROOM.
	CARD READER C/W 16MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR UNLESS NOTED OTHERWISE.
	CCTV CAMERA C/W 27mm CONDUIT UPTO I.T. ROOM
	CCTV MONITOR C/W 27mm CONDUIT UPTO UPTO DVR PANEL/CCTV RACK
	SECURITY SYSTEM- MOTION SENSOR, WALL MOUNTED C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR
	SECURITY SYSTEM- MOTION SENSOR/GLASS BREAK COMBO, 360 DEGREE CEILING MOUNTED, WALL MOUNTED C/W 27MM CONDUIT UPTO SECURITY PANEL
	DOOR HOLD OPEN DEVICE C/W CONDUIT AND WIRING
	SECURITY SYSTEM DOOR CONTACT C/W 16MM CONDUIT UPTO SECURITY PANEL VIA A JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE.
	SECURITY SYSTEM ROOF HATCH DOOR CONTACT C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR
	SECURITY SYSTEM OVERHEAD DOOR CONTACT C/W 16MM CONDUIT UPTO SECURITY PANEL VIA A JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE.
	PUSH BUTTON FOR DOOR BELL (STI STOPPATION STATION, NO TEXT, SS230Y, UNIVERSAL STOPPER LABEL SHELL, MOMENTARY (ILLUMINATED), ENGLISH, C/W ACCESSORIES AS REQUIRED.
	120V DOOR BELL, EDWARDS# STRAP MOUNTED BELL/BUZZER, MODEL-762, 590 SERIES TRANSFORMER, #993 MOUNTING PLATES FOR 590 SERIES TRANSFORMERS, TRANSFORMER MOUNTING PLATES, SINGLE AND MULTIPLE GANG UTILITY BOXES & ALL ACCESSORIES REQUIRED FOR MOUNTING & FULLY OPERATIONAL SYSTEM.
	ARMING BUTTON C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR
	SECURITY SYSTEM BUZZER C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR
	PHOTOCELL
	THERMOSTAT
	ACKNOWLEDGE BUTTON-FIRE ALERT SYSTEM.
	COUNTDOWN CLOCK-FIRE ALERT SYSTEM.
	REQUEST TO EXIT PUSH BUTTON/BAR: SHALL RELEASE ELECTRIC STRIKE OF RESPECTIVE DOOR.
	MAINTAINED TWIST RELEASE RED COLORED MUSHROOM KEYLESS TYPE EMERGENCY PUSH BUTTON FOR SHUT DOWN OF POWER FOR GAS SOLENOID VALVE IN CASE OF EMERGENCY. PROVIDE SUITABLE LABEL ON THE PUSH BUTTON.
	WALL MOUNTED J-HOOK IN CEILING
	53 MM(2") CONDUIT SLEEVE THRU WALL ABOVE CEILING
	SPEED CONTROLLER OF CEILING FAN
	DENOTES TRANSFORMER
	DENOTES DOMESTIC HOT WATER TANK
	DENOTES RANGE HOOD
	DENOTES RANGI
	DENOTES DISHWASHER
	DENOTES MICROWAVE
	DENOTES MOTORIZED DAMPER
	DENOTES PIPE HEAT TRACING
	DENOTES WIRE GUARD
	DENOTES FIRE ALARM CONTROL PANEL
	DENOTES RECESSED LED TYPE OF FIRE ALARM ANNUNCIATOR PANEL C/W PASSIVE GRAPHICS
	DENOTES RECESSED FIRE ALARM MONITORING PANEL. PROVIDE A DEDICATED PHONE LINE FOR THIS MONITORING PANEL AND PROVIDE 1-21MM CONDUIT FROM THIS PANEL TO FACP.
	DENOTES DOOR OPERATOR
	DENOTES FREEZER
	DENOTES FRIEZE
	DENOTES POWER FOR ELECTRONIC FAUCET/PLUMBING FIXTURES
	DENOTES FIRE STATION ALERT SYSTEM

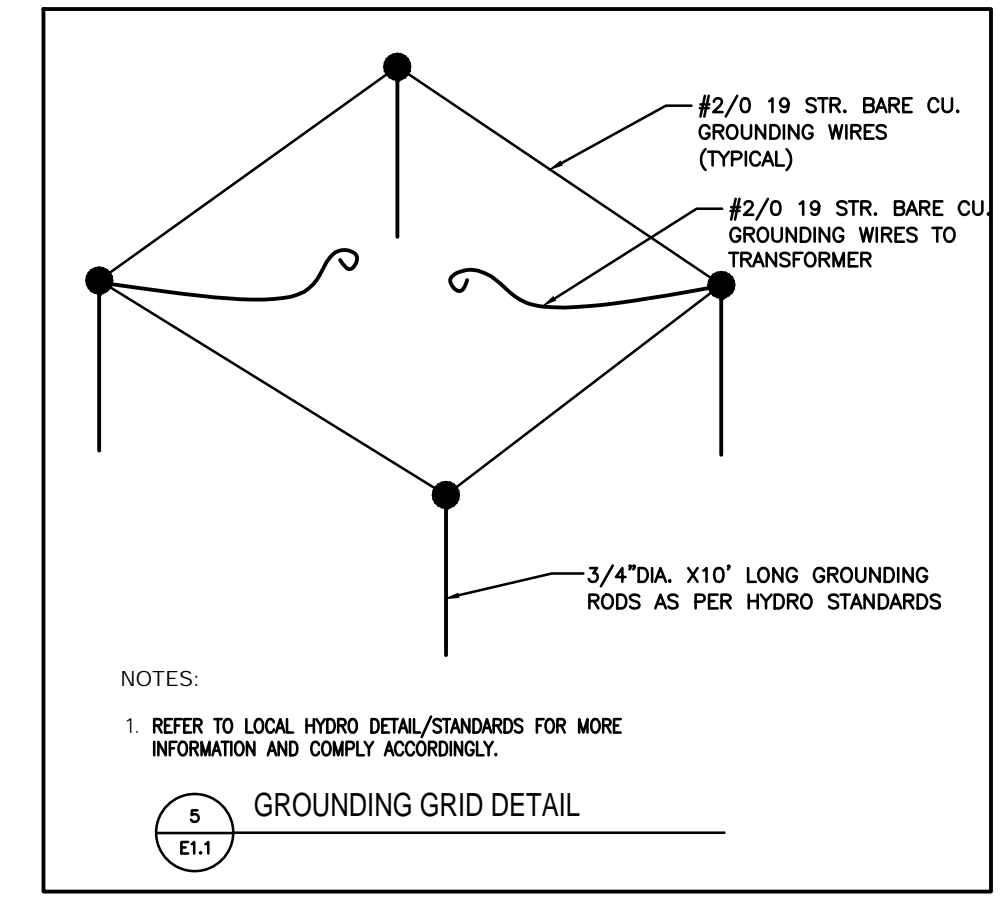
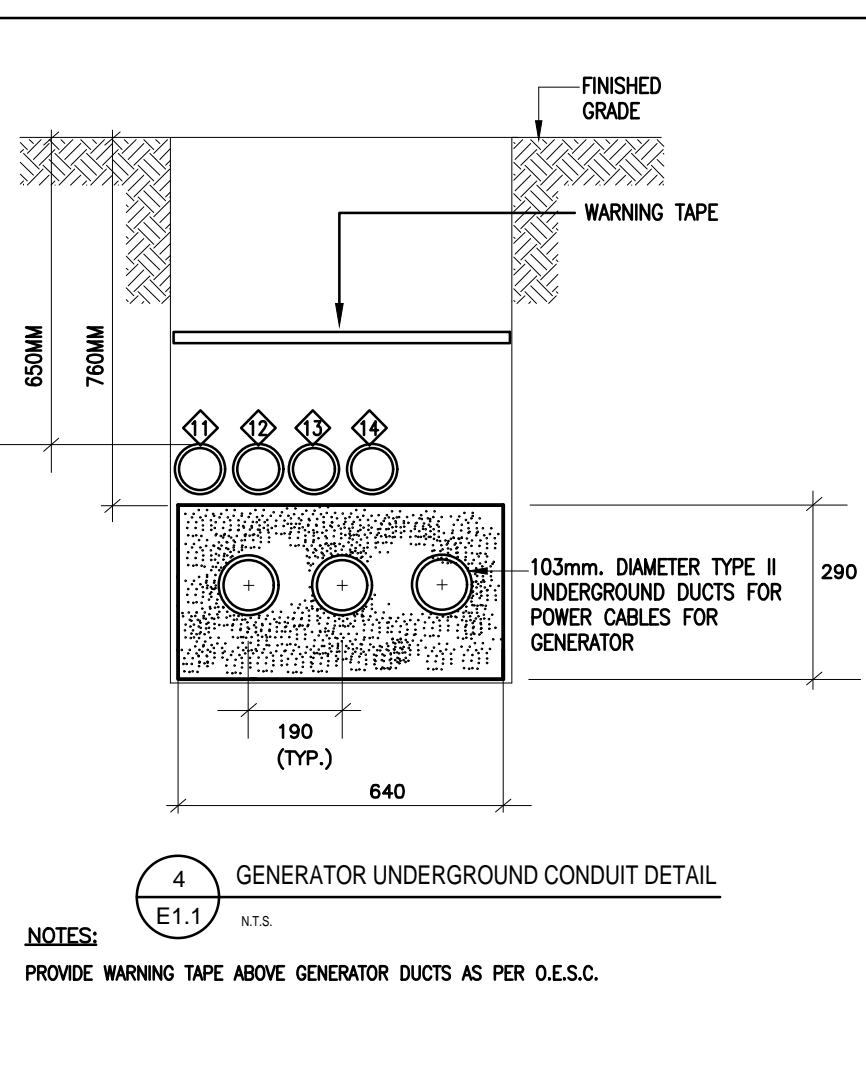
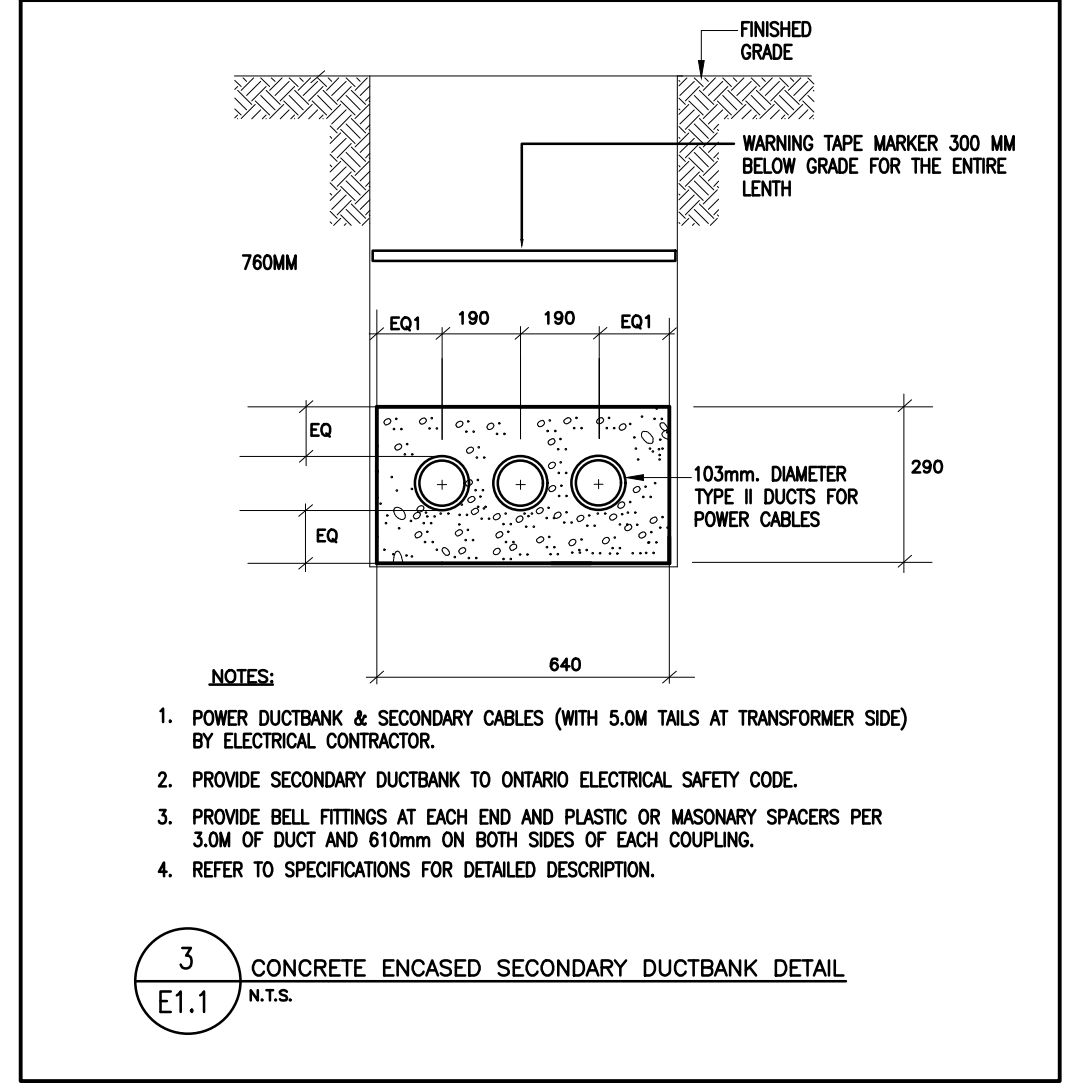
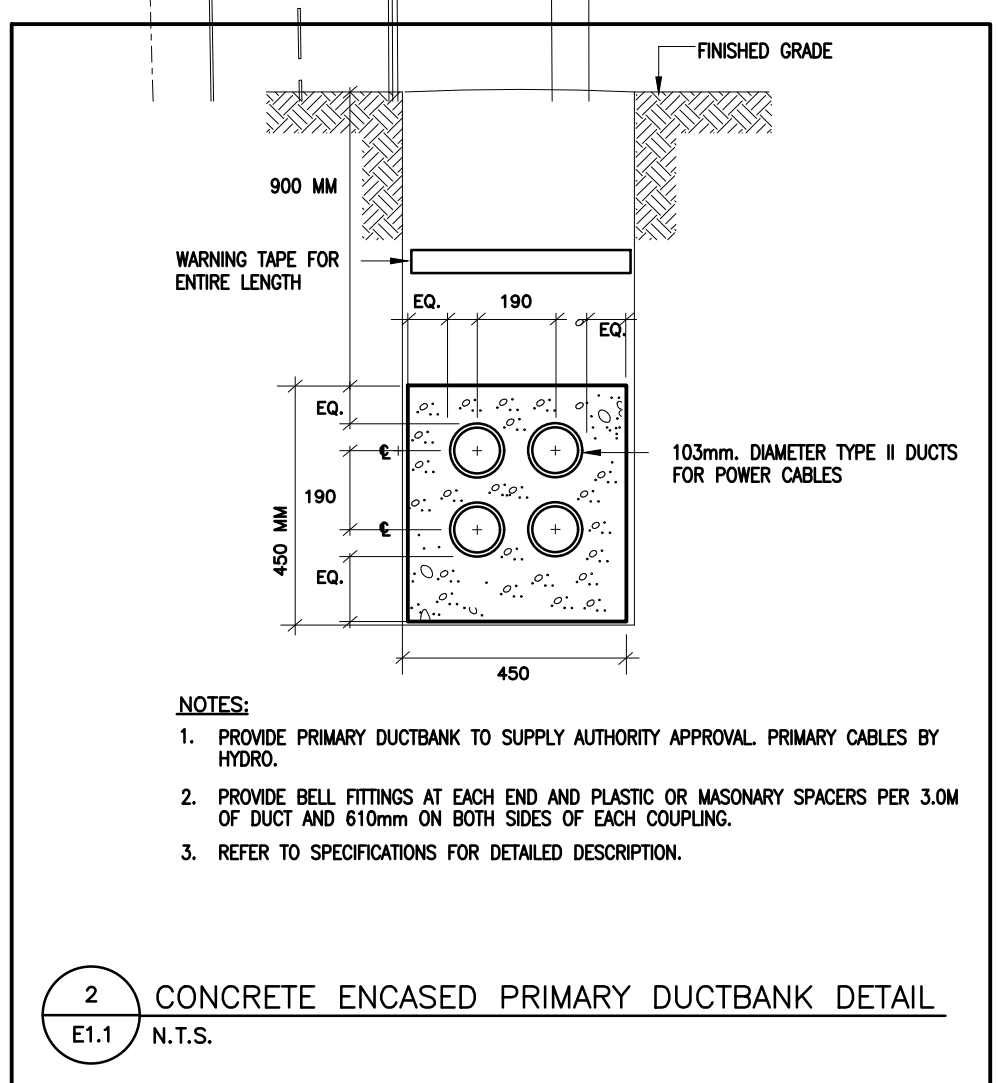
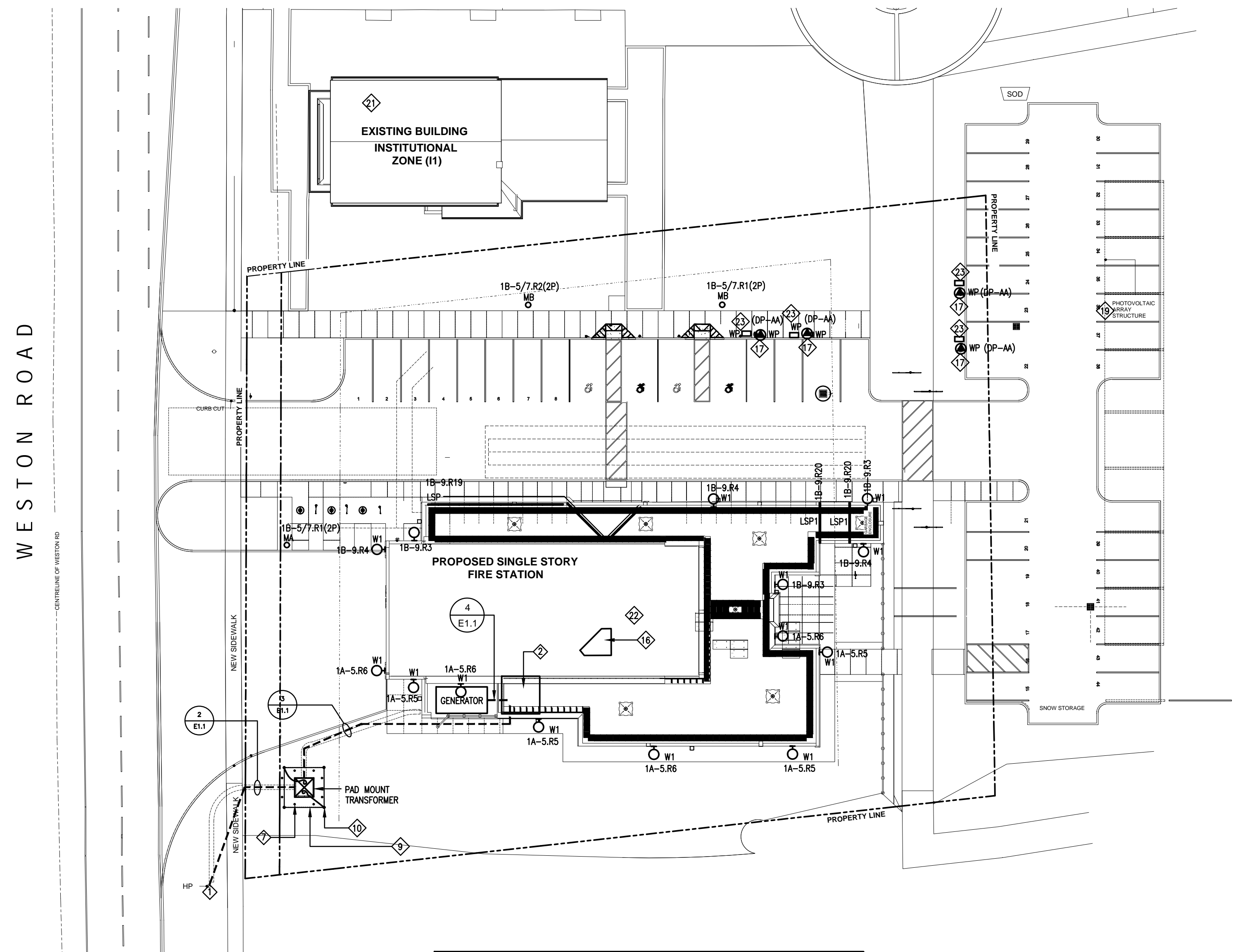
LEGEND (CONTD.)	
	ATS DENOTES AUTOMATIC TRANSFER SWITCH
	H.D. DENOTES HEAT DETECTOR
	S.D. DENOTES SMOKE DETECTOR
	P.S. DENOTES PULL STATION
	CUH DENOTES CABINET UNIT HEATER
	UH DENOTES UNIT HEATER
	WSH DENOTES WASHER
	DR DENOTES DRYER
	WP DENOTES WEATHER PROOF.
	VVT DENOTES VARIABLE VOLUME TEMPERATURE.
	HD DENOTES HAND DRYER
	CUH DENOTES CABINET UNIT HEATER
	A/V DENOTES AUDIO/VISUAL SYSTEM
	VOLUME DENOTES LOCAL VOLUME CONTROL OF P.A. SPEAKERS
	M&V DENOTES METERING & VERIFICATION SYSTEM
	O/H DOOR DENOTES OVERHEAD DOOR
	CF-1 DENOTES CEILING FAN#1 (TYP.)
	TRF. DENOTES TRANSFORMER
	FC-1 DENOTES FAN COIL#1 (TYP.)
	FSA DENOTES FIRE STATION ALERT SYSTEM
	LWMP DENOTES LV MASTER SWITCH PANEL
	1A-1 DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #1
	1A-2,1 DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #2 AND CONTROLLED BY SWITCH #1
	1A-3,R1 DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #3 AND CONTROLLED VIA RELAY-1.
	1A-5,7,R2(2P) DENOTES EQUIPMENT FED FROM PANEL '1A' AND 2-POLE BREAKER #5/7 AND CONTROLLED VIA 2-POLE RELAY-2.
	DETAIL 1 ON DRAWING E101
	NOTE PERTAINING TO SPECIFIC ITEM OR AREA
NOTES FOR LEGEND:	
1.	THE WEATHERPROOF RECEPTACLES SHALL BE PROVIDED WITH COVER PLATES SUITABLE FOR WET LOCATIONS WHETHER OR NOT A PLUG IS INSERTED INTO THE RECEPTACLE (N-USE COVER PLATE) AND MARKED # EXTRA UTY# AS PER RULE 26-702(2) OF OESC.
2.	'I' INDICATED BESIDE SYMBOL OF A DUPLEX RECEPTACLE DENOTES THAT THE RECEPTACLE SHALL BE T-SLOT ON 20A CCT.
3.	'C' INDICATED BESIDE SYMBOL OF A DEVICE DENOTES THAT THE DEVICE SHALL BE CEILING MOUNTED.
4.	'TR' INDICATED BESIDE SYMBOL OF A DUPLEX RECEPTACLE DENOTES THAT THE RECEPTACLE SHALL BE TAMPER RESISTANT TYPE OF RECEPTACLE.
5.	SLASH LINE SHOWN ON SYMBOL OF A DEVICE (RECEPTACLE, DATA OUTLET, TELEPHONE OUTLET OR DATA/PHONE OUTLET) MEANS THAT THE DEVICE/OUTLET IS TO BE LOCATED ABOVE COUNTER.

HEATER SCHEDULE	
TYPE	DESCRIPTION
A	500W 120V BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AFBF205 STELPRO, QUELLETT
B	750W 120V BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AFBF307 STELPRO, QUELLETT
C	1250W 120V BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AFBF512 STELPRO, QUELLETT
D	2000W, 208V, 1-PH. BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AFBF820 STELPRO, QUELLETT
E	2250W 208V, 1-PH. SURFACE MOUNTED FLOW HEATER C/W REMOTE THERMOSTAT. DIMPLEX CAT. # RFB30031-RFPBWC STELPRO, QUELLETT
F	2250W 208V, 1-PH. SEMI RECESSED FORCED FLOW HEATER TO BE MOUNTED IN T-BAR CEILING C/W MOUNTING ACCESSORIES, BRACKETS, SUPPORTS, HARDWARE & REMOTE THERMOSTAT. DIMPLEX CAT. # RFB30031 STELPRO, QUELLETT
G	3000W 208V, 1-PH. SEMI RECESSED FORCED FLOW HEATER C/W REMOTE THERMOSTAT. DIMPLEX CAT. # RFB40031 STELPRO, QUELLETT
H	6000W 208V, 1-PH. SURFACE MOUNTED FORCED FLOW HEATER C/W REMOTE THERMOSTAT. DIMPLEX CAT. # RFB60021-RFPBWC STELPRO, QUELLETT
J	1000W 120V BASEBOARD HEATER C/W BUILT-IN THERMOSTAT CHROMALOX CAT. # AFBF410 STELPRO, QUELLETT
K	3000W 208V, 1-PH. WALL SURFACE MOUNTED FORCED FLOW HEATER C/W REMOTE THERMOSTAT. DIMPLEX CAT. # RFB40031-RFPBDW STELPRO, QUELLETT
UH-1	25.0KW 208V, 3-PH. ELECTRICAL INDUSTRIAL UNIT HEATER, SUSPENDED FROM CEILING TYPE (WAREHOUSE TYPE) C/W REMOTE THERMOSTAT & COMPLETE MOUNTING ACCESSORIES AS REQUIRED. QUELLETT# QAS25038+MOUNTING ACCESSORIES STELPRO, DIMPLEX
UH-2	25.0KW 208V, 3-PH. ELECTRICAL INDUSTRIAL UNIT HEATER, SUSPENDED FROM CEILING TYPE (WAREHOUSE TYPE) C/W REMOTE THERMOSTAT & COMPLETE MOUNTING ACCESSORIES AS REQUIRED. QUELLETT# QAS25038+MOUNTING ACCESSORIES STELPRO, DIMPLEX
NOTES:	
1.	COORDINATE WITH MECHANICAL DRAWINGS/MECHANICAL TRADE FOR EXACT LOCATION OF REMOTE THERMOSTATS PRIOR TO ROUGH-INS.

LUMINAIRE SCHEDULE	
L2	120V, 4" DIA LED DOWN LIGHT FIXTURE, 7.0W, 801 LUMENS, 3000K, DIMMING DRIVER, WET LOCATION C/W MOUNTING ACCESSORIES AS REQUIRED. ORBIT# RM-R-30K-7W-60D-WH-NC-120V-WET SENSO ARTEMIS, COOPER, ACUTY
L2A	6" HIGH, 3" WIDE, 1" DEEP WALL RECESSED LED (RED LIGHT EMITTING LIGHT FIXTURE), 3.0W, 352 LUMENS, 120V DRIVER. FINISH TO ARCHITECT'S SELECTION. SOLERA# DOMI-RED LIGHT EMISSION-3WLED-120V-R-CPL-120V AXISSTELIGHT, COOPER, ACUTY
L2B	120V, 2" DIA LED DOWN LIGHT FIXTURE, 6

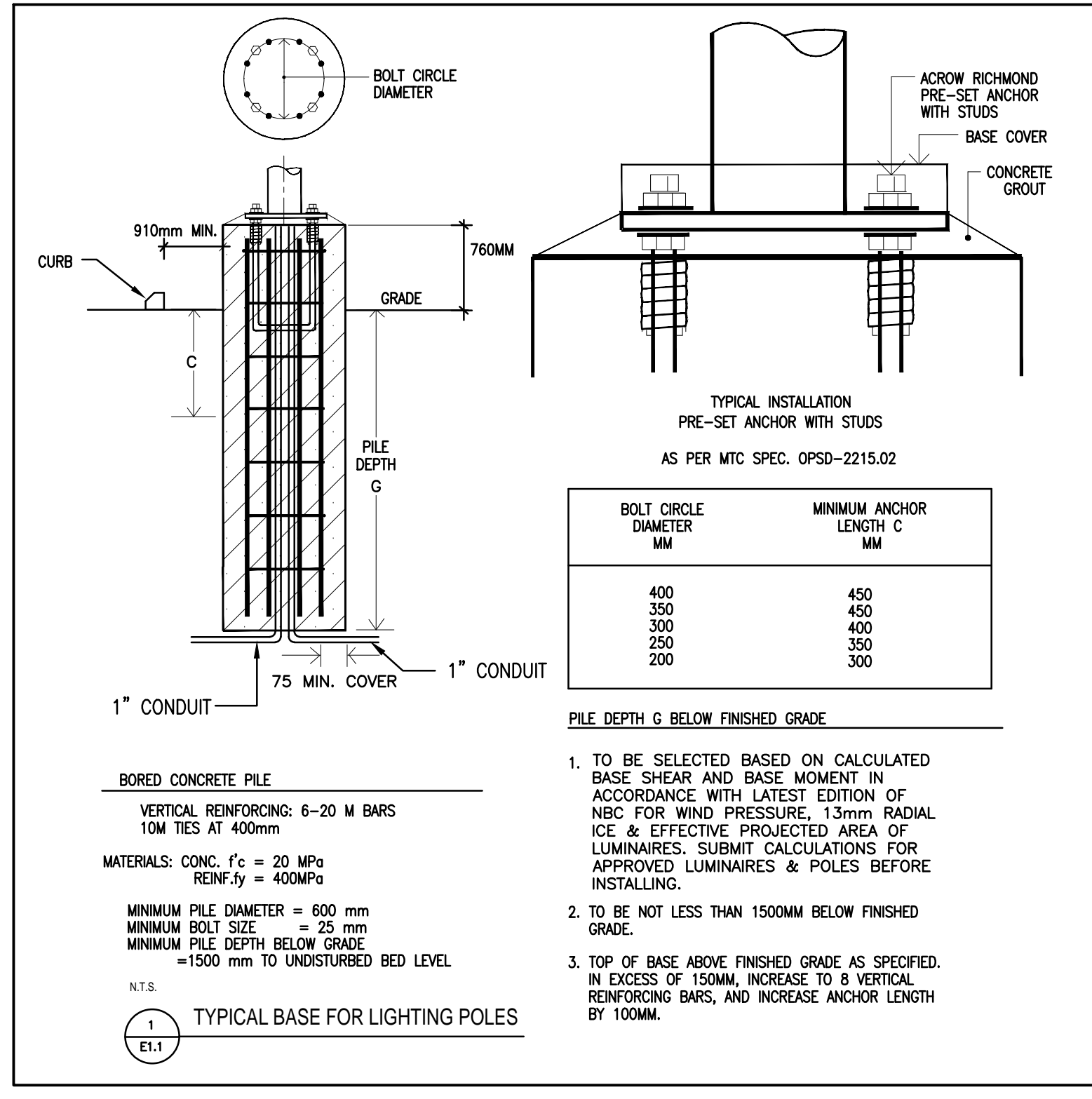
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line	Illuminance	Fc	0.00	0.1	0.0	N.A.	N.A.
V F Stn site	Illuminance	Fc	0.66	17.6	0.0	N.A.	N.A.

Light levels are Maintained at Grade and 3m on ctrs
All luminaires have a U rating of 0



DRAWING NOTES:

- PRIMARY DUCT BANK SHALL BE TERMINATED AT HYDRO POLE. COORDINATE WITH HYDRO FOR EXACT LOCATION OF THE HYDRO POLE & TERMINATION OF THE PRIMARY DUCT BANK PRIOR TO ROUGH-IN.
- APPROXIMATE LOCATION OF MAIN ELECTRICAL ROOM AT GROUND FLOOR.
- RESERVED.
- THE WARNING TAPES SHOWN/DESCRIBED ON THIS DRAWING SHALL COMPLY WITH RULE 12-012(11) OF OESC. THE TAPE MUST BE BURIED APPROXIMATELY HALFWAY BETWEEN THE INSTALLATION AND GRADE LEVEL, COVERING THE WIDTH OF THE RACKWAYS OR CABLES FOR THE ENTIRE LENGTH & SHALL BE INSTALLED AS PER BULLETIN 12-2 OF OESC.
- ALL EXTERIOR LIGHTING CIRCUITS SHALL BE CARRIED OUT WITH #10 AWG CONDUCTOR.
- ANY METAL (I.E. METAL FENCES, BOLLARDS, PROTECTIVE BARRIERS, ETC.) LOCATED WITHIN 2.4M OF THE PAD MOUNTED TRANSFORMER SHALL BE BONDED TO STATION GROUND ELECTRODE WITH 2/0 AWG COPPER CONDUCTORS AS PER RULE 36-308 & BULLETIN 36-10 OF LATEST OESC.
- PROVIDE PROTECTIVE BOLLARDS (TYP.) CO-ORDINATE WITH HYDRO FOR EXACT LOCATIONS, QUANTITIES OF THE BOLLARDS AND MOUNTING DETAIL OF BOLLARDS PRIOR TO ROUGH-IN AND COMPLY ACCORDINGLY.
- PROVIDE POWER & DATA OUTLET FOR PYLON SIGNAGE. COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE GROUNDING LOOP TO TRANSFORMER AS PER HYDRO STANDARDS (TYP.). REFER DETAILS ON DWG. E1.1 FOR MORE INFORMATION.
- PROVIDE GROUNDING RODS, QUANTITIES, LOCATIONS, TYPE TO BE AS PER HYDRO REQUIREMENTS/HYDRO STANDARDS. COORDINATE WITH HYDRO & PROCEED ACCORDINGLY.
- PROVIDE 1-53MM UNDERGROUND CONDUIT C/W WIRING TO GENERATOR ANNUNCIATOR PANEL.
- PROVIDE 1-41MM UNDERGROUND CONDUIT C/W WIRING FOR GEN. PANEL FROM PANEL-1A.
- PROVIDE 1-27MM UNDERGROUND CONDUIT C/W WIRING TO ATS-1 FOR START OPTION.
- PROVIDE 1-27MM UNDERGROUND CONDUIT C/W WIRING TO ATS-1 FOR TRIPPING GENERATOR LOAD TESTING BREAKER-G2.
- PROVIDE PROTECTIVE BOLLARDS (TYP.) FOR GENERATOR. COORDINATE ON SITE FOR EXACT LOCATION & QUANTITIES PRIOR TO ROUGH-INS.
- APPROXIMATE LOCATION OF I.T. ROOM-140 AT MEZZANINE LEVEL.
- PROVIDE DATA OUTLET & POWER FOR EV CHARGING STATION (TO BE FED FROM DP-AA FROM 40A/2P BREAKER, REFER DWG. E4.0 FOR MORE INFORMATION) COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- RESERVED.
- PROVIDE 2-3\"/>



LUMINAIRE SCHEDULE

MA	960MM HIGH, LANTERN TYPE LED LIGHTING STANDARD (56.0W, 3522 LUMENS) C/W 3.47M HIGH STEEL STRAIGHT POLE ON 760MM ABOVE GRADE CONCRETE BASE (TOTAL HEIGHT OF THE LIGHT STANDARD TO BE 5.49M ABOVE GRADE), SINGLE HEAD C/W 208V DRIVER, 3000K. POLE AND LUMINAIRE SHALL HAVE FINISH AS PER ARCHITECT SELECTION. NLS# DMR-1-13-MO-32L-53-30K8-HSS-RO-AM-PT. B0-U0-G1 ACUTY, COOPER, SIGNIFY
MB	960MM HIGH, LANTERN TYPE LED LIGHTING STANDARD (56.0W, 3529 LUMENS) C/W 3.47M HIGH STEEL STRAIGHT POLE ON 760MM ABOVE GRADE CONCRETE BASE (TOTAL HEIGHT OF THE LIGHT STANDARD TO BE 5.49M ABOVE GRADE), SINGLE HEAD C/W 208V DRIVER, 3000K. POLE AND LUMINAIRE SHALL HAVE FINISH AS PER ARCHITECT SELECTION. NLS# DMR-1-14-MO-32L-53-30K8-HSS-RO-AM-PT. B0-U0-G1 ACUTY, COOPER, SIGNIFY
WI	LED WALL PACK (9.4W, 1064 LUMENS), MOUNTED @ 3.1M, C/W 120V DRIVER, 3000K. FINISH TO ARCHITECT'S SELECTION. SOLERA# SRBK-4-D-30K-U0. B1-U0-G0 ACUTY, COOPER, SIGNIFY
LSP	1.0M LONG, LED LINEAR LIGHT FIXTURE, IP65 (TO BE MOUNTED AS RECESSED IN CHANNEL C/W LENS), 3000K, FOR LIGHTING METAL FACADE, 4.2M/FT., 512 LUMENS/FT. LENGTH & QUANTITIES TO SUIT SITE CONDITIONS (VERIFY ON SITE FOR EXACT EXTENT OF APPLICATION). FINISH TO ARCHITECT'S SELECTION. 120V DRIVER, MOUNTED @ 3.2M A.F.F. DIODE# D1-24V-165-30K-1016-D1-CPQB-16-120V. TOTAL LENGTH AS PER SITE CONDITIONS ACUTY, COOPER, SIGNIFY

ISSUE OR REVISION

NO.	ISSUED FOR	DATE (M.D.Y)
1	ISSUED FOR SPA	05.03.22
2	RE-ISSUED FOR SPA	06.03.22
3	DESIGN DEVELOPMENT FOR COSTING	07.07.22
4	RE-ISSUED FOR SPA	05.16.23
5	RE-ISSUED FOR SPA	06.12.23
6	RE-ISSUED FOR SPA	06.20.23
7	ISSUED FOR PERMIT	09.07.23
8	RE-ISSUED FOR SPA	09.20.23
9	ISSUED FOR REVIEW	02.13.24
10	ISSUED FOR TENDER	04.15.24
11	ISSUED FOR ADD#1	05.23.24
12	ISSUED FOR CONSTRUCTION	09.04.24

CITY OF VAUGHAN FIRE STATION 7-12
9541 WESTON ROAD, VAUGHAN

CLIENT

MEP

Jain

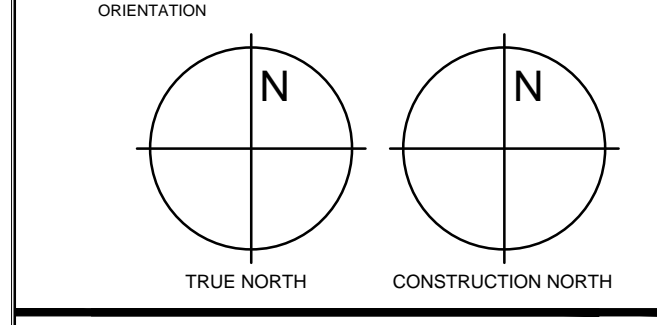
7405 EAST DMBRO CRESCENT
MISSISSAUGA, ONTARIO, L5N 6P8
TEL: 905 285 9900, FAX: 905 567 5246
Email: mep@jainconsultants.com

PROFESSIONAL SEAL

D. JAIN
REGISTERED PROFESSIONAL ENGINEER
SEP/04/24
PROVINCE OF ONTARIO

21-237

DWG TITLE
SITE PLAN - ELECTRICAL



DATE

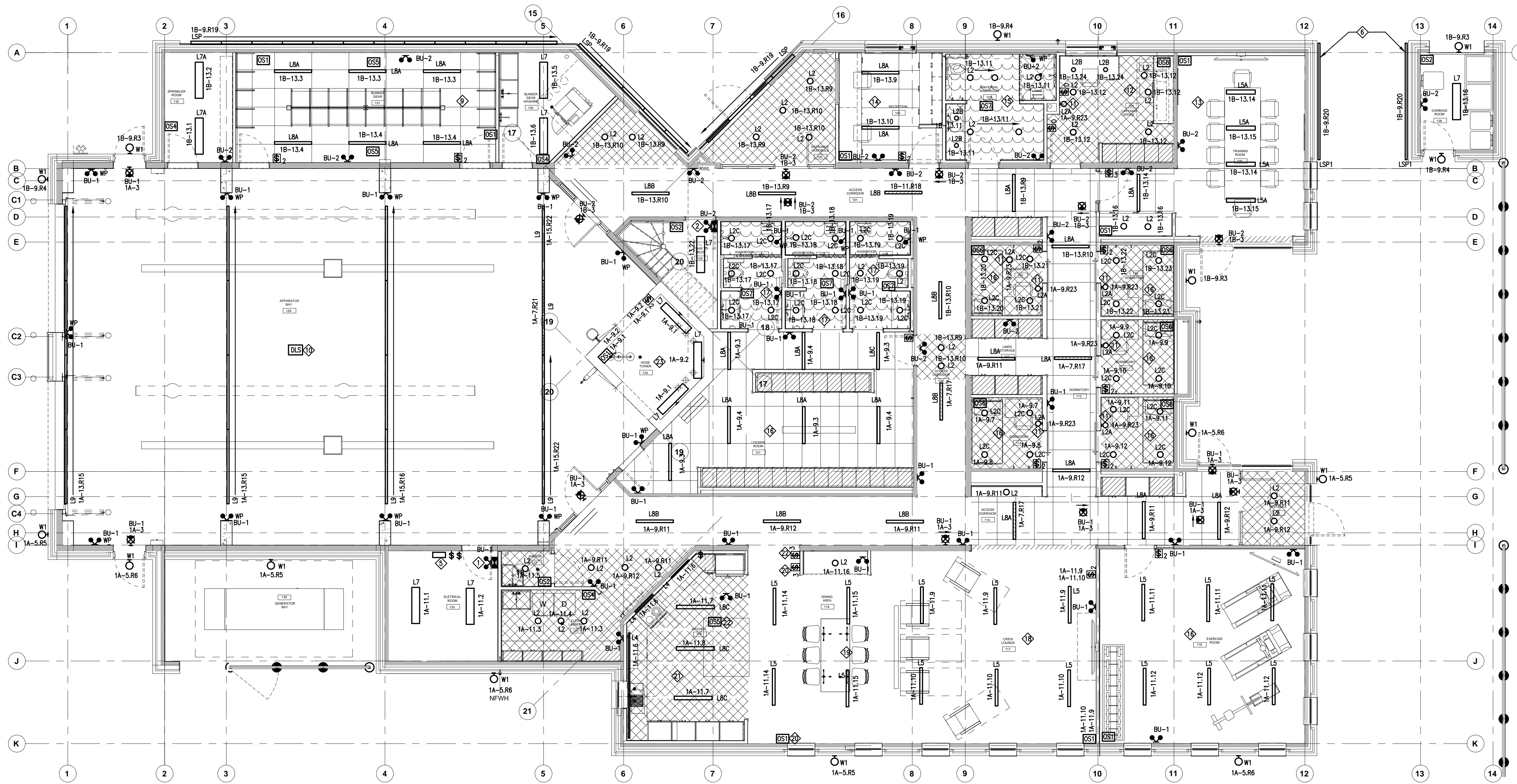
SCALE: **1 : 300**

DWG STATUS:

PROJECT NO.:

DRAWING NO. **E1.1**

REVISION



DRAWING NOTES:

- 1. PROVIDE BATTERY UNIT BU-1 (720W) AT HIGH LEVEL, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE CCT#1A-1 TO THE BATTERY UNIT.
- 2. PROVIDE BATTERY UNIT BU-2 (720W) AT HIGH LEVEL, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE CCT#1B-1 TO THE BATTERY UNIT.
- 3. RESERVED.
- 4. RESERVED.
- 5. PROVIDE LOW VOLTAGE MASTER SWITCH PANEL (LWMSF) IN A LOCKABLE BACKBOX. REFER DETAIL#1 ON DWG. E7.0 FOR MORE INFORMATION. CONCEAL LED STRIP LIGHTING @ BOTH SIDES.
- 6. REFER DETAIL#2 ON DWG. E7.0 FOR LIGHTING CONTROL OF LIGHT FIXTURES CONTROLLED BY OCCUPANCY SENSORS TYPE-OS2.
- 7. REFER DETAIL#3 ON DWG. E7.0 FOR LIGHTING CONTROL OF LIGHT FIXTURES CONTROLLED BY OCCUPANCY SENSORS TYPE-OS4.
- 8. REFER DETAIL#7 ON DWG. E7.0 FOR LIGHTING CONTROL OF THIS ROOM.
- 9. THIS DAYLIGHT SENSOR SHALL CONTROL LIGHTING RELAYS FEEDING LIGHT FIXTURES IN APPARATUS AREA IN TWO STEPS AS FOLLOWS: STEP-1: RELAYS R15, R21. STEP-2: RELAY R16.
- 10. LIGHT FIXTURE-L2A SHALL BE CONTROLLED BY FSA SYSTEM (FIRE STATION ALERT SYSTEM). FEED THE LIGHT FIXTURE FROM CCT# AS INDICATED. CO-ORDINATE ON SITE FOR EXACT LOCATION OF THE LIGHT FIXTURE PRIOR TO ROUGH-IN. THE LIGHT FIXTURE SHALL REMAIN 'ON' UPON RECEIPT OF FSA SIGNAL AND SHUT-OFF AUTOMATICALLY AFTER TWO (2) MINUTES. THE RELAY-R23 SHALL BE PROGRAMMED ACCORDINGLY. REFER LIGHTING CONTROL RELAY SCHEDULE FOR MORE INFORMATION. PROVIDE ALL NECESSARY CONDUITS, WIRING, OTHER MATERIAL AS REQUIRED AS WELL AS LABOUR FOR FULLY OPERATIONAL SYSTEM AS INTENDED.
- 11. REFER DETAIL#1 ON DWG. E7.1 FOR LIGHTING CONTROL OF THIS ROOM.
- 12. REFER DETAIL#2 ON DWG. E7.1 FOR LIGHTING CONTROL OF THIS ROOM.
- 13. REFER DETAIL#5 ON DWG. E7.0 FOR LIGHTING CONTROL OF THIS ROOM.
- 14. REFER DETAIL#4 ON DWG. E7.0 FOR LIGHTING CONTROL OF THIS ROOM.
- 15. LIGHTING CONTROL OF THIS ROOM SHALL BE SIMILAR TO THE ONE AS DESCRIBED UNDER DETAIL#5 ON DWG. E7.0.
- 16. LIGHTING CONTROL OF THIS ROOM SHALL BE SIMILAR TO THE ONE AS DESCRIBED UNDER DETAIL#4 ON DWG. E7.0.
- 17. LIGHTING CONTROL OF THIS ROOM (CCT#1A-11.9, 1A-11.10) SHALL BE SIMILAR TO THE ONE AS DESCRIBED UNDER DETAIL#5 ON DWG. E7.0.
- 18. LIGHTING CONTROL OF THIS DINING ROOM (CCT#1A-11.15, 1A-11.14, 1A-11.16) SHALL BE SIMILAR TO THE ONE AS DESCRIBED UNDER DETAIL#2 ON DWG. E7.1.
- 19. DIGITAL SWITCH/OCCUPANCY SENSOR TO CONTROL CCT#1A-11.15, 1A-11.14 & 1A-11.16.
- 20. REFER DETAIL#3 ON DWG. E7.1 FOR LIGHTING CONTROL OF KITCHEN AREA.
- 21. DIGITAL SWITCH/OCCUPANCY SENSOR TO CONTROL CCT#1A-11.6, 1A-11.7 & 1A-11.2.
- 22. LIGHTING CONTROL OF THESE LIGHT FIXTURES (CCT#1A-9.1, 1A-9.2) SHALL BE SIMILAR TO THE ONE AS DESCRIBED UNDER DETAIL#5 ON DWG. E7.0.

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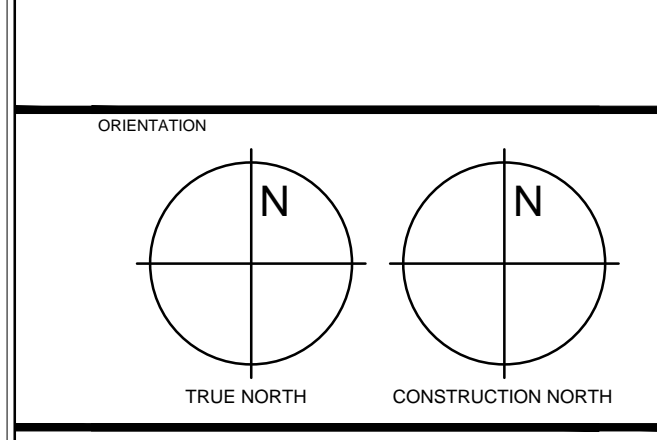
**CITY OF VAUGHAN FIRE
STATION 7-12**
 9541 WESTON ROAD, VAUGHAN

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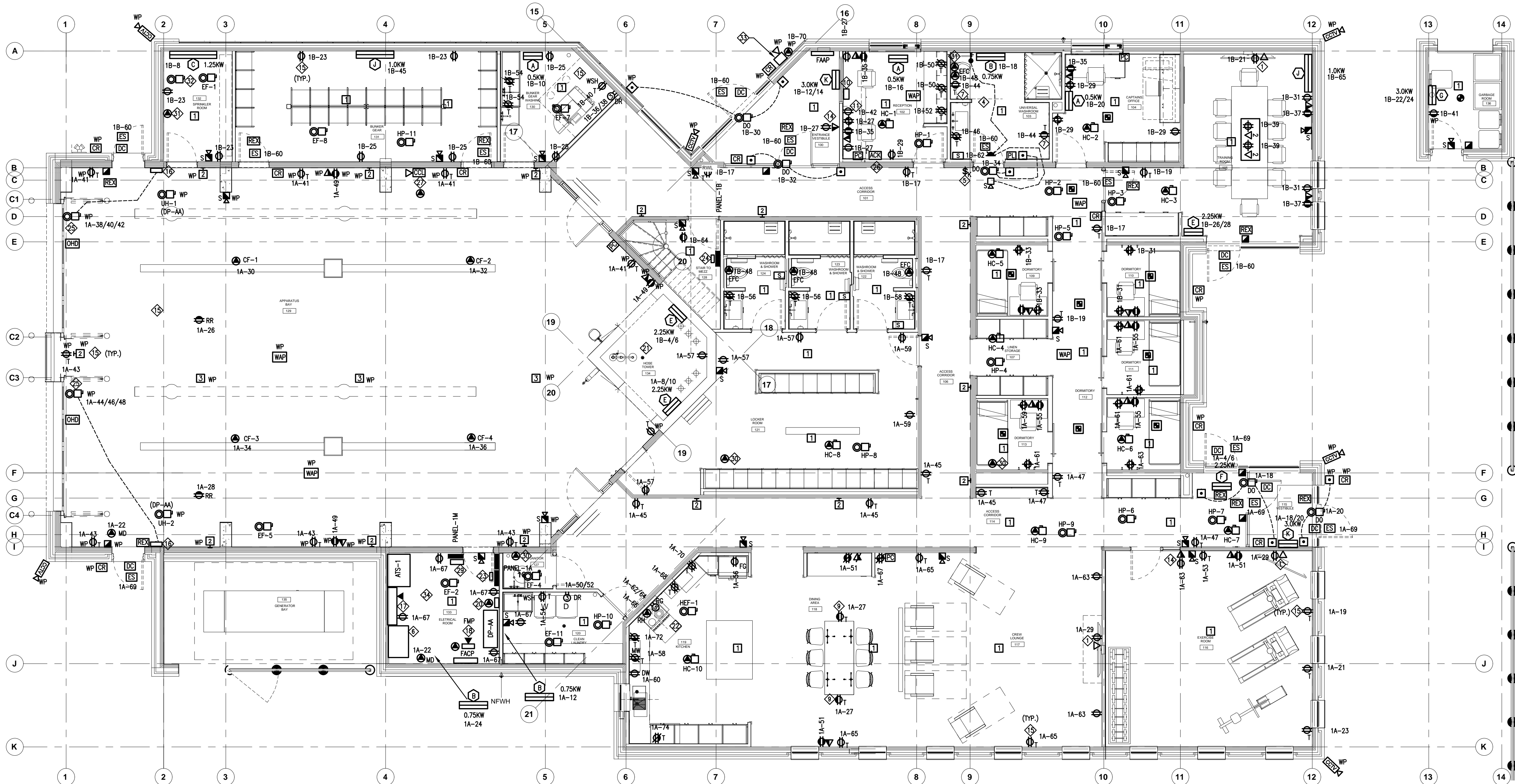
DWG TITLE
**LIGHTING LAYOUT
-GROUND FLOOR**



DATE
 SCALE **1 : 75** DRAWN BY CV CHECKED BY RH

DWG STATUS: PROJECT NO.

DRAWING NO. **E2.1** REVISION



- DRAWING NOTES:**
- ◆ COORDINATE ON SITE FOR EXACT LOCATION & MOUNTING HEIGHT OF OUTLETS FOR TV PRIOR TO ROUGH-IN.
 - ◆ PROVIDE 19MM TRK, 2.4MM HIGH FIRE RESISTANT COMMUNICATION PLYWOOD BOARD FOR TEL/CABLE/DATA SERVICES
 - ◆ PROVIDE #6 AWG GROUNDING CONDUCTOR IN CONDUIT C/W GROUNDING BUS BARS OF SIZE 1/4"x2"x10" FOR EACH SYSTEM (AS REQUIRED BY SYSTEM SUPPLIERS) FOR TELEPHONE, IT RACK, FAX, SERVER, SECURITY PANEL, CABLE TV, DATA EQUIPMENTS BONDING IN LT. ROOM. EXACT LOCATION TO BE VERIFIED ON SITE. GROUNDING OF THE EQUIPMENTS IN THE LT. ROOM SHALL BE CONNECTED TO MAIN GROUNDING BUS BAR OF THE MAIN BUILDING.
 - ◆ PROVIDE CALL FOR ASSISTANCE SYSTEM IN THIS WASHROOM WHICH SHALL BE CAMDEN# CX-MECH10 CONSISTING OF:
 - 1. NO. MUSHROOM PUSH BUTTON, STAINLESS STEEL, PUSH/PULL PRESS FOR EMERGENCY ASSISTANCE, CAMDEN# CM-4508/12. THE PUSH BUTTON SHALL BE MOUNTED ON A SINGLE GANG BACKBOX.
 - 1. NO. SINGLE GANG LED ANNUNCIATOR C/W SOUNDER, ASSISTANCE REQUESTED, CAMDEN# CM-4F50/150. THE SINGLE GANG LED ANNUNCIATOR C/W SOUNDER SHALL BE MOUNTED INSIDE THE B.F. WASHROOM.
 - 1. NO. SINGLE GANG DOME LIGHT WITH SOUNDER, ASSISTANCE REQUESTED, CAMDEN# CM-4F45/20. TO BE MOUNTED OUTSIDE THE B.F. WASHROOM.
 - 1. NO. ENGLISH, SOLID WHITE SIGN (152MMx270MM, IN THE EVENT OF AN EMERGENCY, PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE), CAMDEN# CM-521A. THIS SIGN SHALL BE MOUNTED ABOVE THE EMERGENCY PUSH BUTTON OF CALL FOR ASSISTANCE SYSTEM.
 - 1. NO. POWER SUPPLY, 24VAC C/W 40VA STANDARD MOUNT TRANSFORMER AND AC/DC RECTIFIER (CAMDEN# CX-TRK24-50). THE POWER SUPPLY SHALL BE LOCATED IN NEAREST ACCESSIBLE CEILING SPACE.
 - ◆ REFER LEGEND FOR MORE INFORMATION.
 - ◆ PROVIDE ALL MATERIAL, LABOR, CONDUITS AND WIRING FOR FULLY OPERATIONAL SYSTEM AS PER LATEST OBC REQUIREMENTS.
 - ◆ KEYSWITCH TO RELEASE ELECTRIC STRIKE OF UNIVERSAL ROOM-153 IN CASE OF EMERGENCY.
 - ◆ 208V, 1000A/1000AT, 3P, 100% RATED MAIN BREAKER C/W ENCLOSURE (65KA).
 - ◆ PROVIDE POWER FOR ADULT CHANGE TABLE. COORDINATE ON SITE FOR EXACT LOCATION & MOUNTING HEIGHT PRIOR TO ROUGH-IN.
 - ◆ 8. COORDINATE ON SITE FOR EXACT LOCATION & MOUNTING HEIGHTS OF OUTLETS FOR MICROWAVES, DISHWASHERS & FRIDGE PRIOR TO ROUGH-IN.
 - ◆ RECEPTACLE TO BE LOCATED ON ISLAND, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 - ◆ PA SYSTEM, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 - ◆ PROVIDE POWER FOR PA SYSTEM (ADJACENT TO THE PA SYSTEM), COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 - ◆ 12. COORDINATE ON SITE FOR EXACT LOCATION OF FLOOR BOXES PRIOR TO ROUGH-IN.
 - ◆ 13. NO SURFACE MOUNTED CONDUITS SHALL BE PROVIDED IN CREW AREA (CAPTION OFFICE & DORMITORY ROOMS).
 - ◆ PROVIDE POWER & VOICE/DATA FOR PHONE/INTERCOM WITH RECEPTION. COORDINATE ON SITE FOR EXACT LOCATION & MOUNTING HEIGHT PRIOR TO ROUGH-IN.
 - ◆ POWER FEED FOR ALL THE OUTLETS LOCATED ON PERIMETER SHALL BE PROVIDED FROM BELOW SLAB (TYP.).
 - ◆ CONTROL PANEL (UP/DOWN/OFF SWITCH) FOR OVERHEAD DOOR, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 - ◆ HYDRO METERING CABINET. PROVIDE A DEDICATED PHONE LINE & POWER FOR THE METERING CABINET.
 - ◆ FIRE ALARM MONITORING PANEL (FMP). PROVIDE A DEDICATED PHONE LINE FOR THE MONITORING PANEL. PROVIDE 1-21MM CONDUIT FROM THIS MONITORING PANEL TO FMP. PROVIDE POWER (CCT#1A-75) TO THE MONITORING PANEL.
 - ◆ 19. COORDINATE ON SITE FOR EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
 - ◆ GENERATOR ANNUNCIATOR PANEL. PROVIDE CCT#1A-80 TO THE ANNUNCIATOR PANEL.
 - ◆ ALL CONDUITS TO RUN INSIDE TOWER INCLUDING CONDUITS FOR LIGHT FIXTURES.
 - ◆ COORDINATE ON SITE & WITH KITCHEN DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF RECEPTACLES/OUTLETS FOR VARIOUS APPLIANCES PRIOR TO ROUGH-IN.
 - ◆ RELAY PANEL-R1A SHALL BE LOCATED ABOVE PANEL-1A.
 - ◆ RELAY PANEL-R1B SHALL BE LOCATED ABOVE PANEL-1A.
 - ◆ PROVIDE POWER FOR OVERHEAD DOOR OPERATOR. COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE FUSIBLE DISCONNECT SWITCH TO CONTROL POWER TO THE OVERHEAD DOOR OPERATOR. 30A, 3P BREAKER HAS BEEN USED TO FEED THE DOOR OPERATOR. COORDINATE WITH SHOP DWGS. OF THE O/H DOOR OPERATOR AND PROVIDE POWER/WIRING (1-PH OR 3-PH) & FUSES TO SUIT THE O/H DOOR OPERATOR.
 - ◆ ACKNOWLEDGE BUTTON FOR THE FIRE STATION ALERT SYSTEM. CO-ORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE 1-21MM CONDUIT & WIRING FROM THIS BUTTON TO FIRE STATION ALERT SYSTEM.
 - ◆ COUNTDOWN CLOCK-FIRE STATION ALERT SYSTEM (SUPPLIED & INSTALLED BY OTHERS). PROVIDE POWER (CCT#1A-39) & DATA OUTLET FOR THE ALERT SYSTEM. CO-ORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE 1-21MM CONDUIT & WIRING FROM FIRE STATION ALERT SYSTEM TO PA SYSTEM.
 - ◆ RESERVED.
 - ◆ PTE-1, EMP-1 & EMP-2 FOR DIGITAL METERING SYSTEM. COORDINATE ON SITE AND WITH SYSTEM SUPPLIER FOR EXACT LOCATION & MOUNTING HEIGHT PRIOR TO ROUGH-IN. REFER DWG. E3.0 FOR MORE INFORMATION.
 - ◆ PROVIDE POWER (CCT#1A-77) FOR TRAP SEAL PRIMER. COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 - ◆ PROVIDE POWER (CCT#1B-84) FOR TRAP SEAL PRIMER. COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 - ◆ PROVIDE POWER FOR EXCESS PRESSURE PUMP. COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 - ◆ PROVIDE RECESSED WEATHERPROOF SINGLE GANG BOX FOR EMERGENCY CALL BOX. PROVIDE POWER (CCT#1B-70) & DATA DROP FOR THE SYSTEM. COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE 1-21MM CONDUIT FROM THIS LOCATION TO RECEPTION ROOM-102.
 - ◆ PROVIDE 2-3" CONDUITS FROM MAIN ELECTRICAL ROOM-133 TO ROOF FOR PHOTOVOLTAIC SYSTEM. COORDINATE ON SITE FOR EXACT LOCATION OF TERMINATION OF CONDUITS PRIOR TO ROUGH-IN. BOTH ENDS OF THE CONDUITS TO BE SEALED SUITABLE TO AVOID ENTRY OF WATER/FOREIGN MATERIAL INTO THE CONDUITS.

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CITY OF VAUGHAN FIRE
STATION 7-12
 9541 WESTON ROAD, VAUGHAN


CLIENT

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

MEP

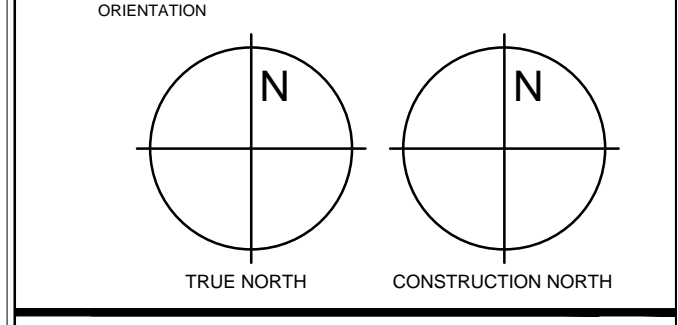

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PROFESSIONAL SEAL


 21-237

DWG TITLE

POWER & SYSTEMS LAYOUT
-GROUND FLOOR



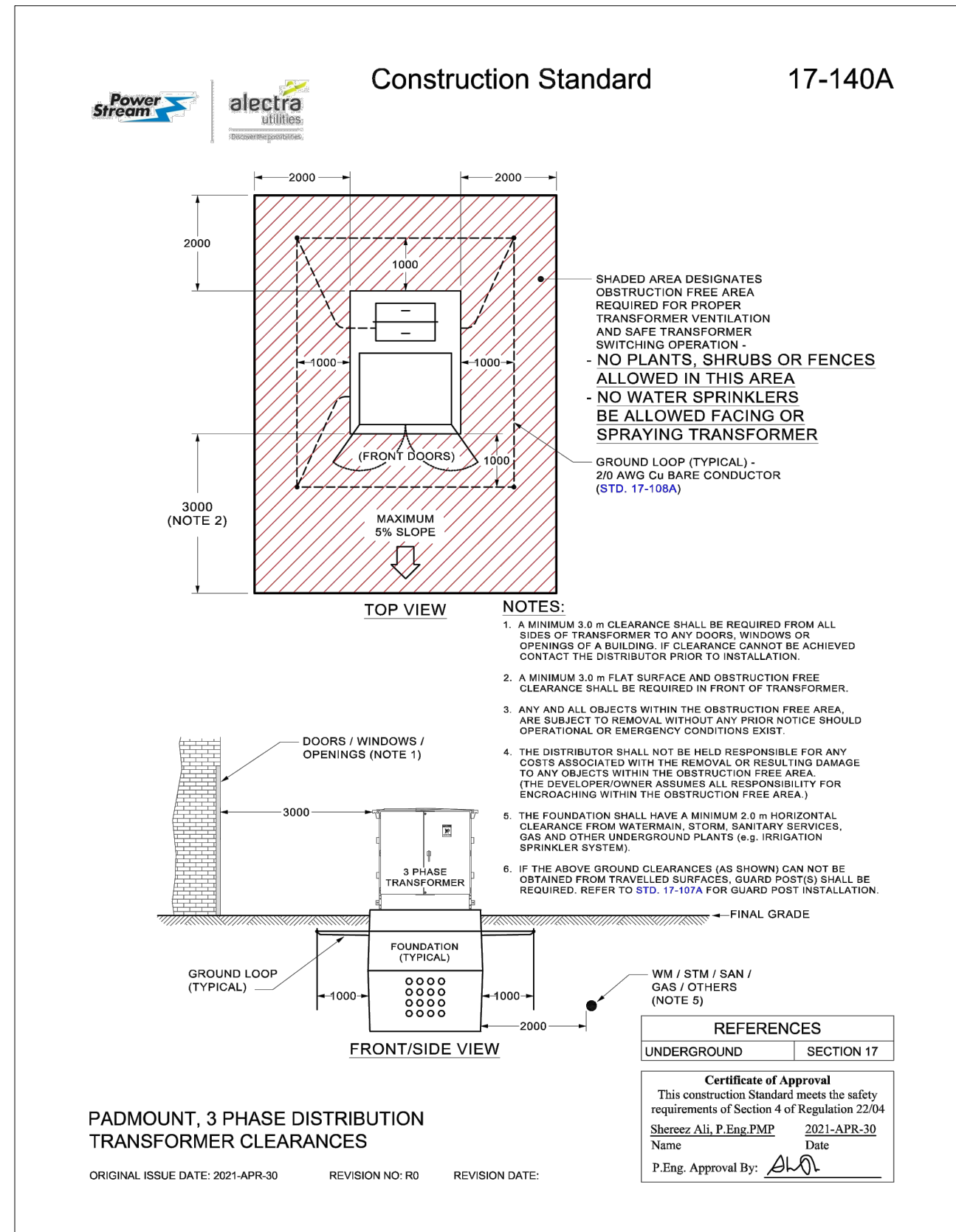
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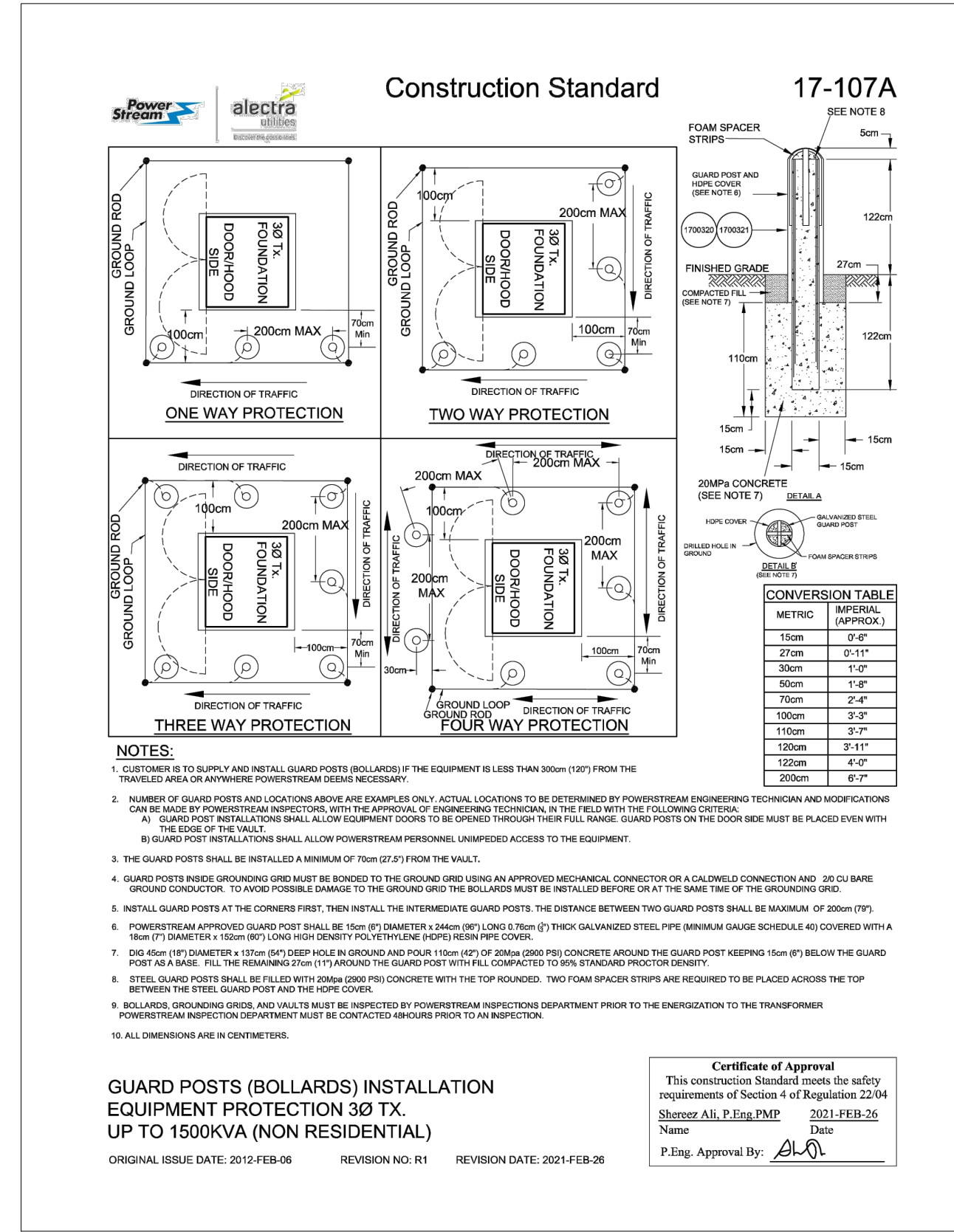
DWG STATUS:

PROJECT NO.

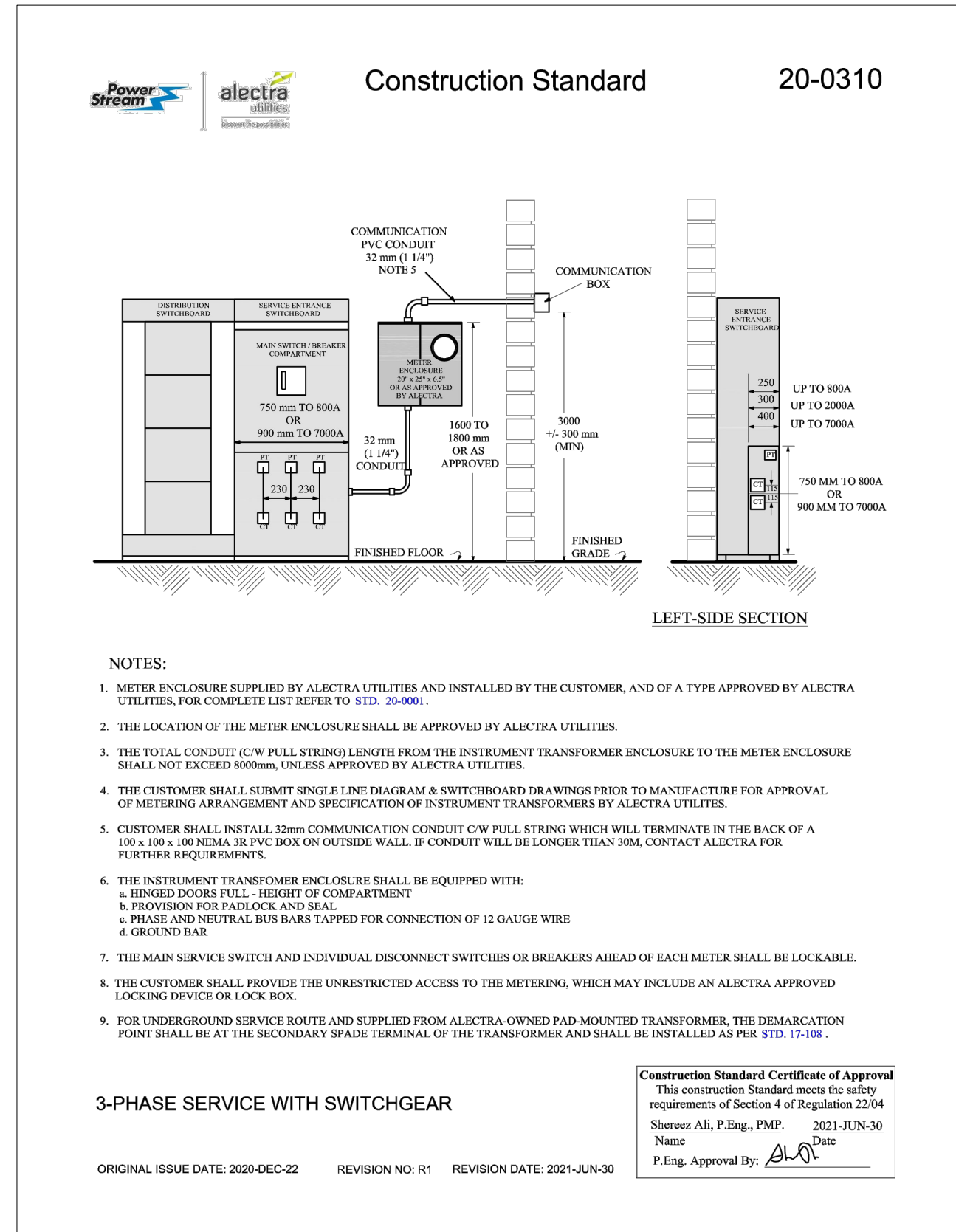
DRAWING NO. **E3.1** REVISION



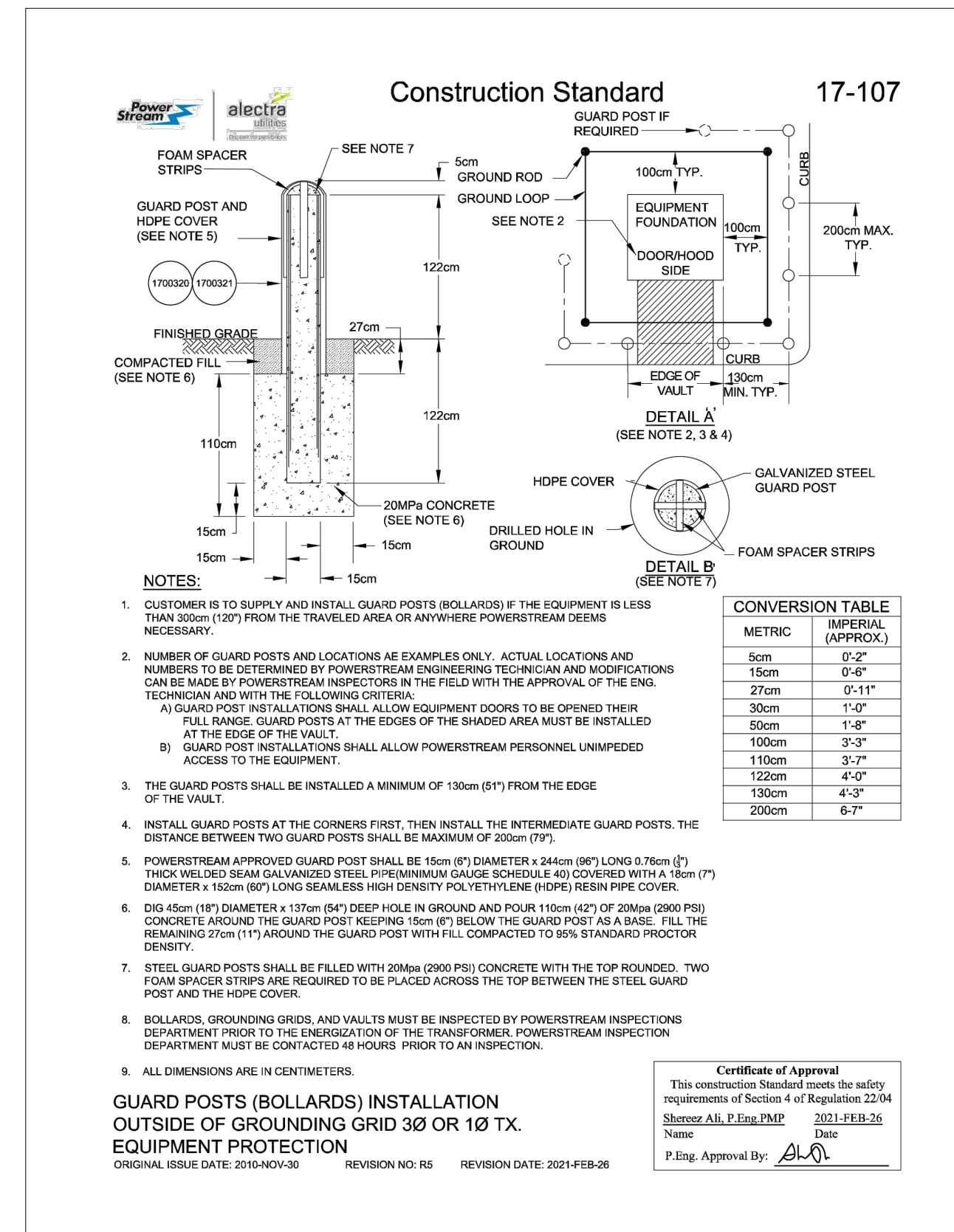
1
E6.1 PADMOUNT, CLEARANCES



2
E6.1 BOLLARDS INSTALLATION



3
E6.1 3-PHASE SERVICE WITH SWITCHGEAR



4
E6.1 BOLLARDS INSTALLATION

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PROJECT:
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 9541 WESTON ROAD, VAUGHAN

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MEP

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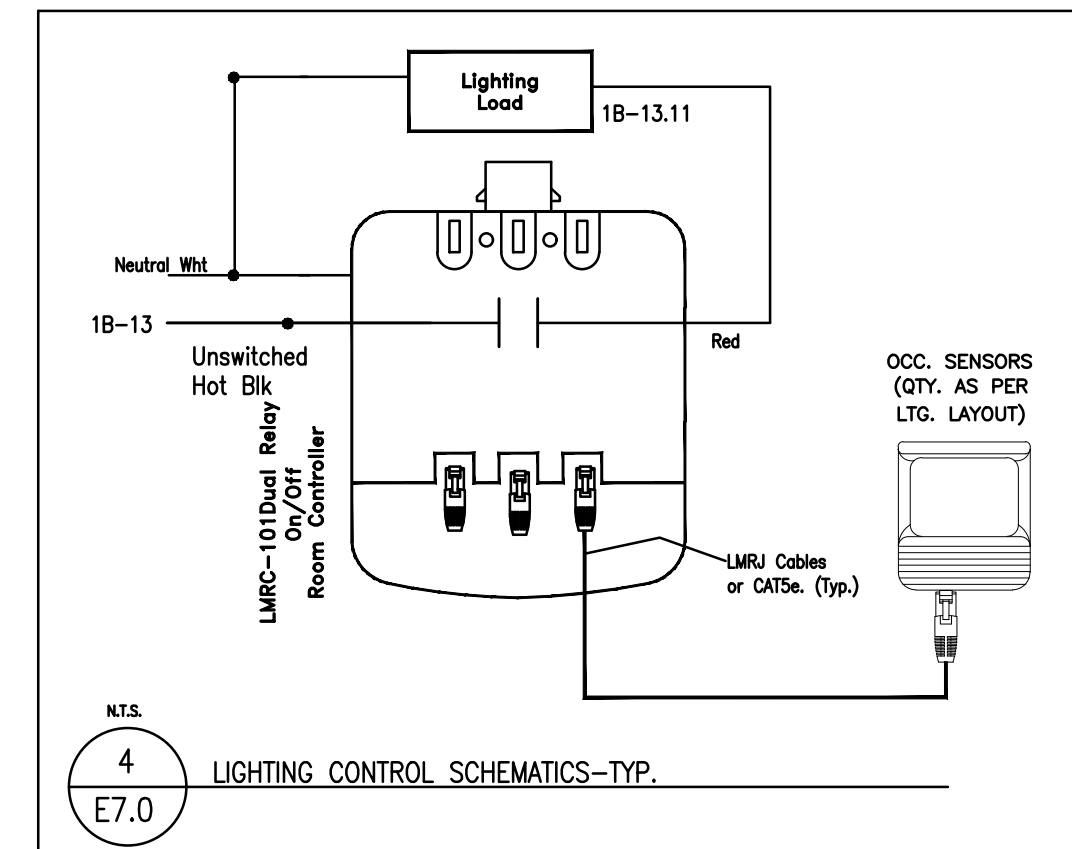
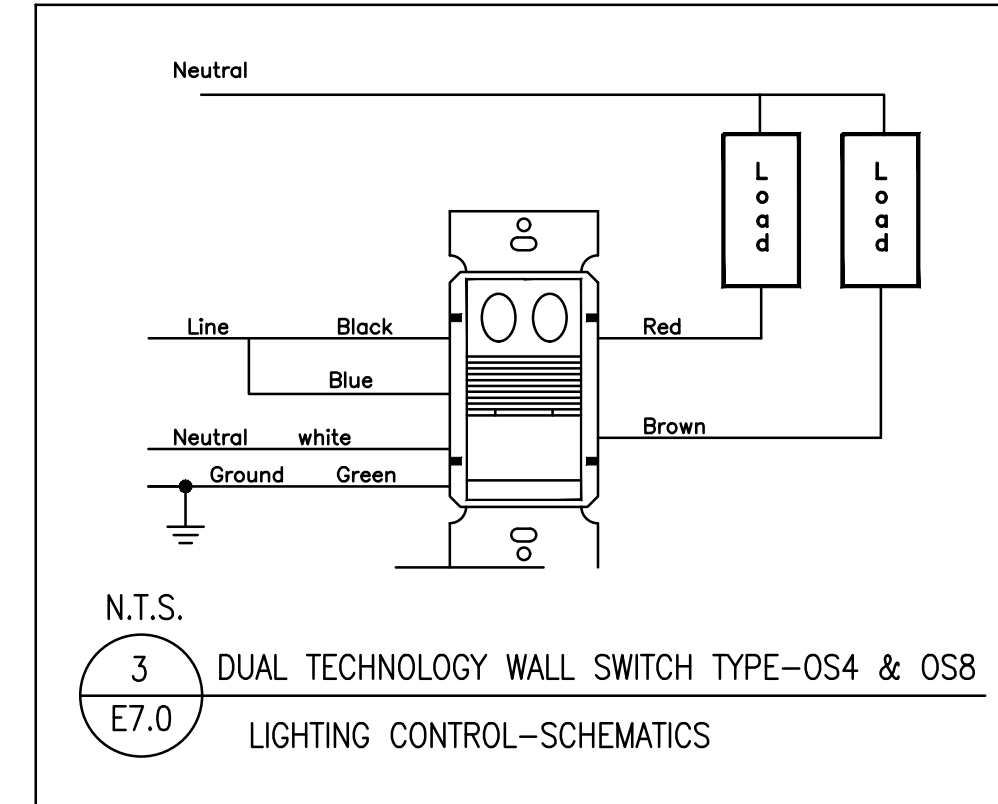
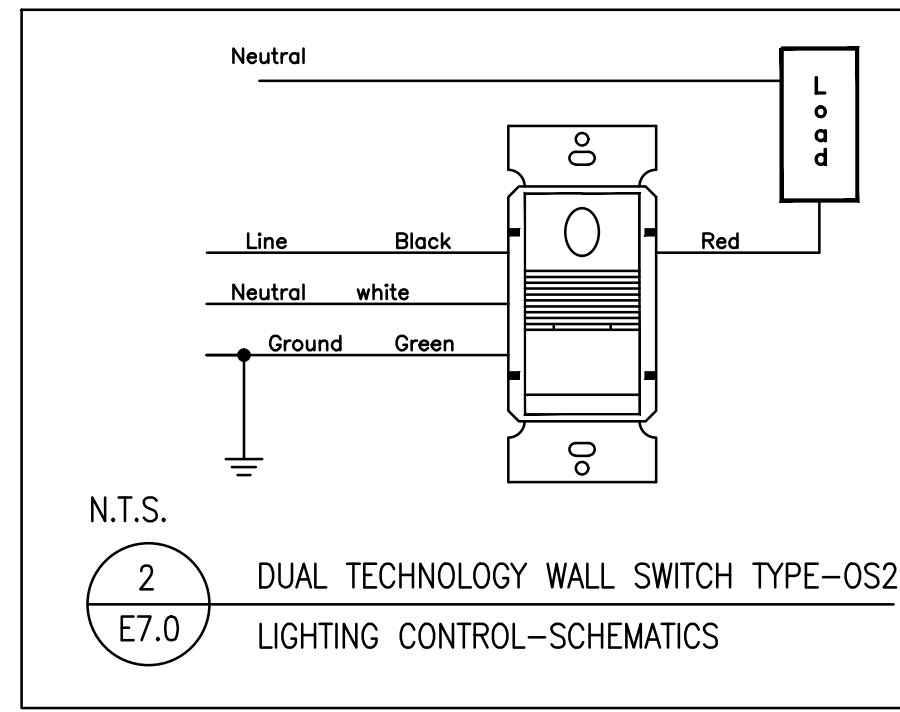
D. JAIN
REGISTERED PROFESSIONAL ENGINEER
SEP 04/24
21-237

DWG TITLE
HYDRO DETAILS

ORIENTATION

TRUE NORTH CONSTRUCTION NORTH

DATE		DRAWN BY	CHECKED BY
SCALE	N.T.S.	CV	RH
DWG STATUS:			
PROJECT NO.			
DRAWING NO.	E6.1	REVISION	

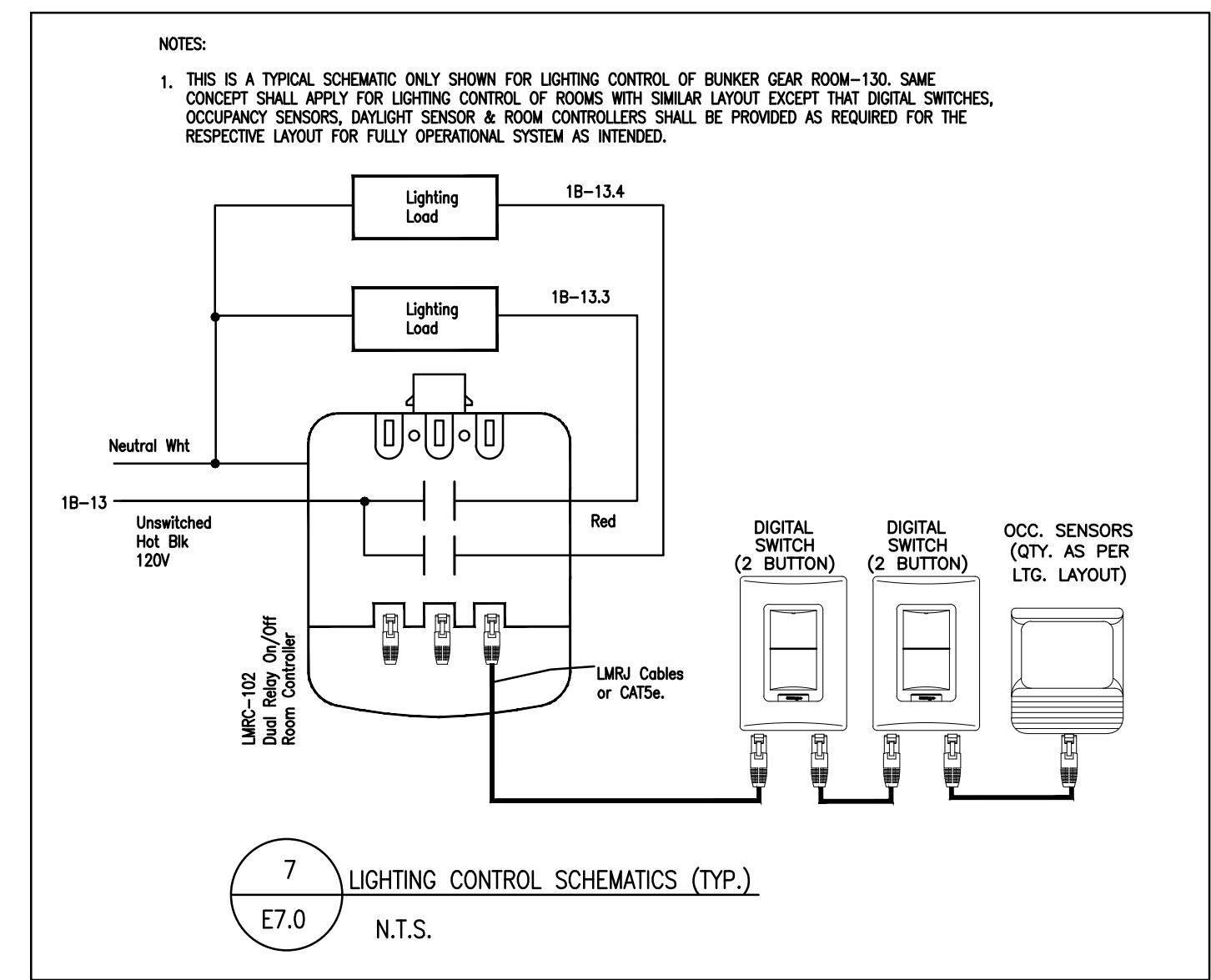
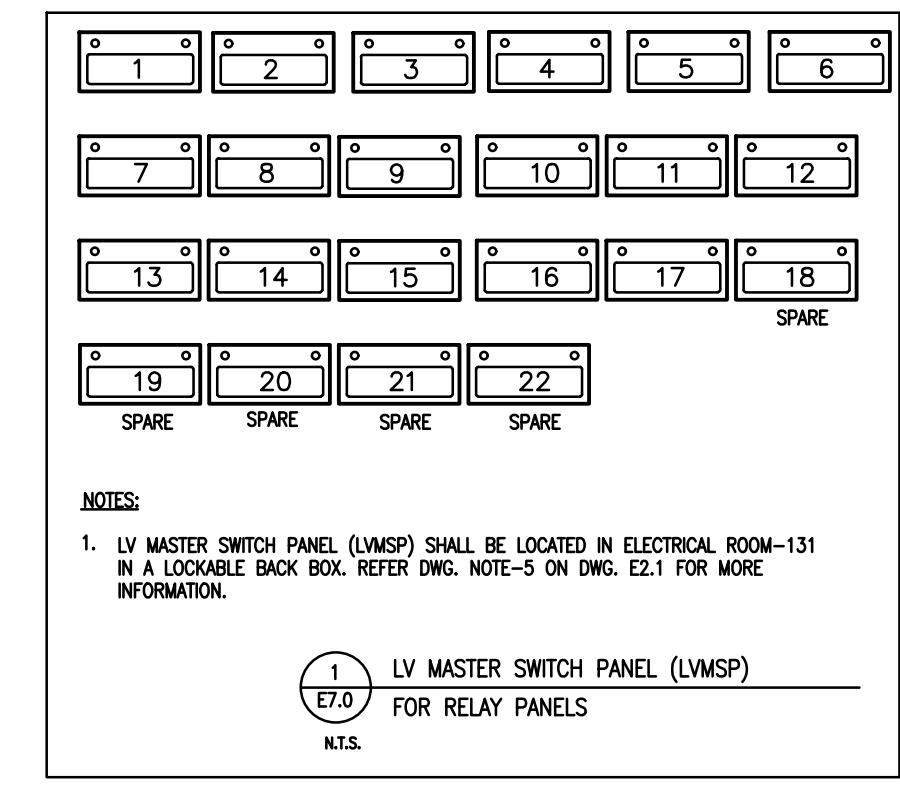
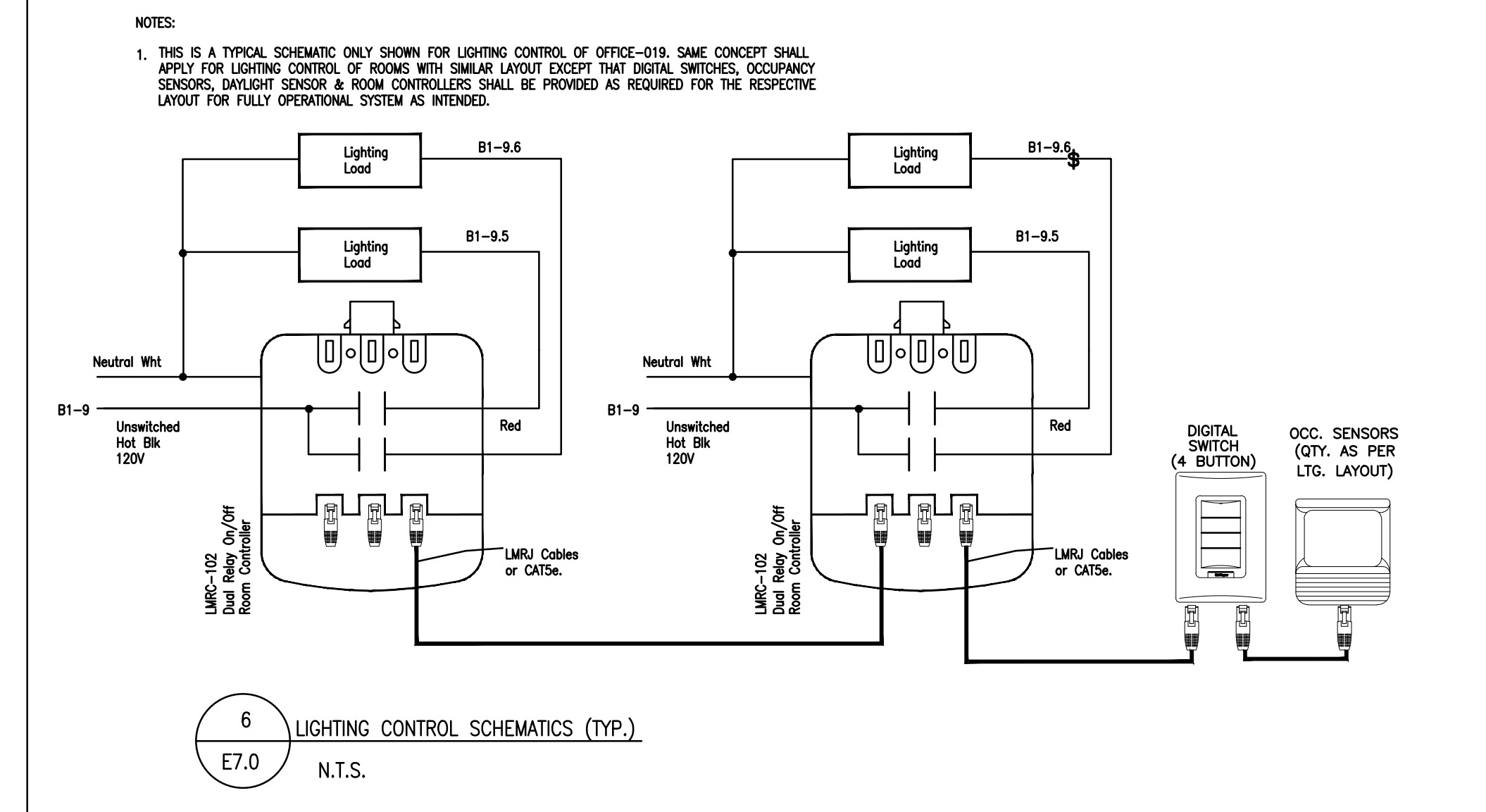
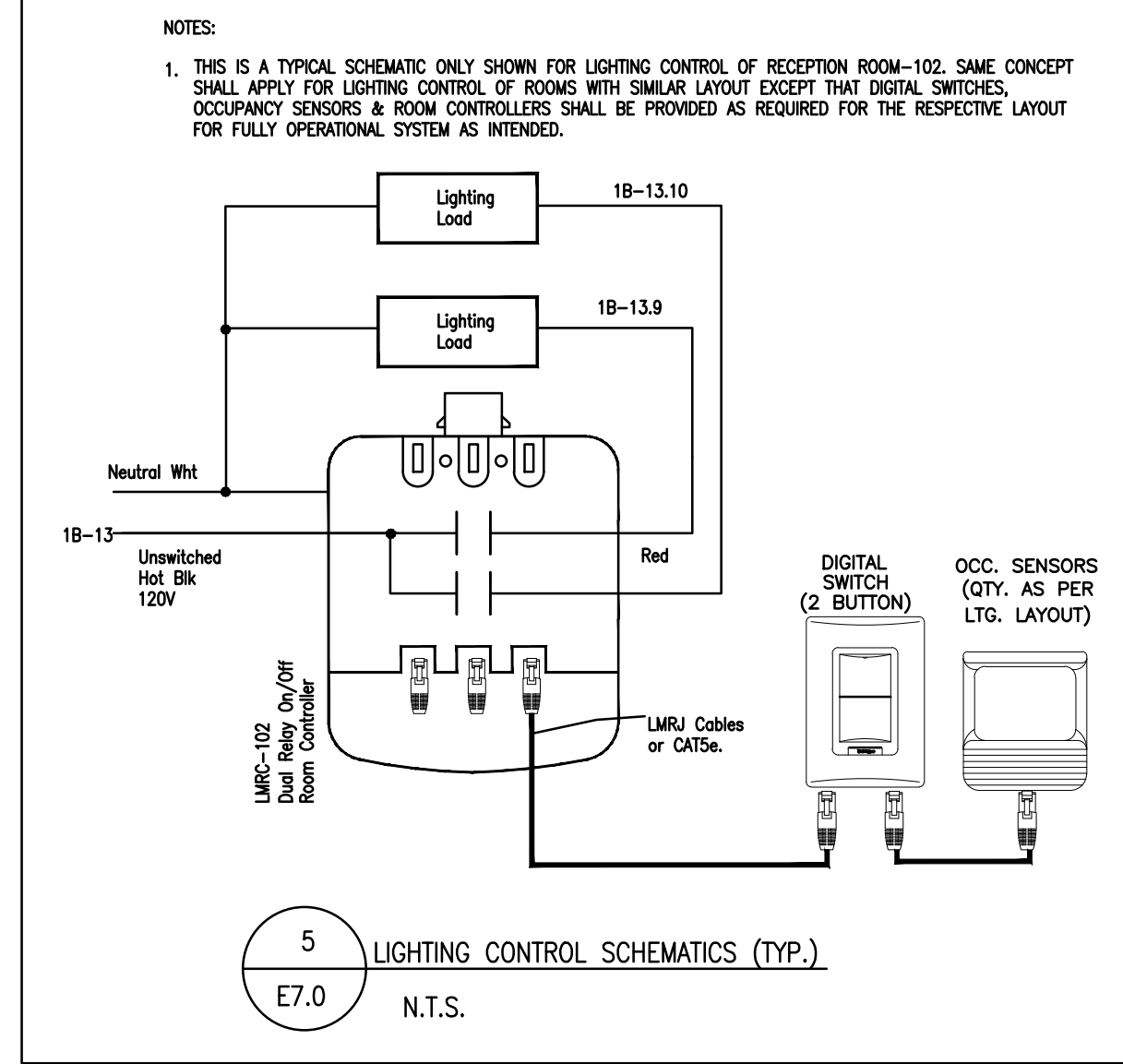


DRAWING NOTES:
 1. THIS IS A TYPICAL SCHEMATIC SHOWN ONLY FOR UNIVERSAL WASHROOM-103. SIMILAR CONCEPT SHALL APPLY FOR LIGHTING CONTROL OF SIMILAR LIGHTING LAYOUTS OF VARIOUS ROOMS/AREAS EXCEPT THAT OCCUPANCY SENSORS/ROOM CONTROLLERS SHALL BE PROVIDED AS REQUIRED AS PER LIGHTING LAYOUTS/LIGHTING CIRCUITS OF RESPECTIVE ROOM /AREA.

LIGHTING CONTROL RELAY SCHEDULE

RELAY NUMBER	AREA SERVED	CCT.#	CONTROLLED BY	BUTTON# IN LVMSPP	RELAY PANEL
R1(2P)	SITE LIGHTING	1B-5/7	BUTTON#1 OF LVMSPP+TIMER+PHOTOCELL	1	R1B
R2(2P)	SITE LIGHTING	1B-5/7	BUTTON#2 OF LVMSPP+TIMER+PHOTOCELL	2	R1B
R3	EXTERIOR LIGHTING	1B-9	BUTTON#3 OF LVMSPP+TIMER+PHOTOCELL	3	R1B
R4	EXTERIOR LIGHTING	1B-9	BUTTON#4 OF LVMSPP+TIMER+PHOTOCELL	4	R1B
R5	EXTERIOR LIGHTING	1A-5	BUTTON#5 OF LVMSPP+TIMER+PHOTOCELL	4	R1A
R6	EXTERIOR LIGHTING	1A-5	BUTTON#6 OF LVMSPP+TIMER+PHOTOCELL	3	R1A
R7	EXTERIOR LIGHTING	1B-9	BUTTON#5 OF LVMSPP+TIMER+PHOTOCELL	5	R1B
R8	EXTERIOR LIGHTING	1B-9	BUTTON#6 OF LVMSPP+TIMER+PHOTOCELL	6	R1B
R9	CORRIDOR LIGHTING	1B-13	BUTTON#7 OF LVMSPP+TIMER	7	R1B
R10	CORRIDOR LIGHTING	1B-13	BUTTON#8 OF LVMSPP+TIMER	8	R1B
R11	CORRIDOR LIGHTING	1A-9	BUTTON#7 OF LVMSPP+TIMER	7	R1A
R12	CORRIDOR LIGHTING	1A-9	BUTTON#8 OF LVMSPP+TIMER	8	R1A
R13	FLOOD LIGHTING-HOSE TOWER	1B-15	BUTTON#9 OF LVMSPP+TIMER+PHOTOCELL	9	R1B
R14	FLOOD LIGHTING-HOSE TOWER	1B-15	BUTTON#10 OF LVMSPP+TIMER+PHOTOCELL	10	R1B
R15	LIGHTING APPARATUS BAY-128	1A-13	BUTTON#11 OF LVMSPP+TIMER	11	R1A
R16	LIGHTING APPARATUS BAY-128	1A-15	BUTTON#12 OF LVMSPP+TIMER	12	R1A
R17	NIGHT LIGHTING	1A-7	BUTTON#13 OF LVMSPP+TIMER	13	R1A
R18	NIGHT LIGHTING	1B-11	BUTTON#13 OF LVMSPP+TIMER	13	R1B
R19	EXTERIOR LIGHTING	1B-9	BUTTON#14 OF LVMSPP+TIMER+PHOTOCELL	14	R1B
R20	EXTERIOR LIGHTING	1B-9	BUTTON#15 OF LVMSPP+TIMER+PHOTOCELL	15	R1B
R21	NIGHT LIGHTING	1A-7	BUTTON#16 OF LVMSPP+TIMER	16	R1A
R22	LIGHTING APPARATUS BAY-128	1A-15	BUTTON#17 OF LVMSPP+TIMER	17	R1A
R23	RED LIGHT FIXTURE-FSA SYSTEM	1A-13	FSA (FIRE STATION ALERT SYSTEM) ⚡		R1A
SPARE	10 RELAYS IN EACH RELAY PANEL				

NOTES:
 1. LVMSPP DENOTES LOW VOLTAGE MASTER SWITCH PANEL. REFER DETAIL#1 ON THIS DWG. FOR MORE INFORMATION.
 ⚡ RELAY-R23 SHALL BE PROGRAMMED IN SUCH A WAY THAT IT TURNS 'ON' THE RED LIGHT FIXTURES-L2A UPON RECEIPT OF FSA (FIRE STATION ALERT SYSTEM) SIGNAL AND TURNS-OFF THE LIGHT FIXTURES-L2A AFTER TWO MINUTES. REFER DWG. E2.1 FOR MORE INFORMATION.



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CITY OF VAUGHAN FIRE STATION 7-12
 PROJECT:
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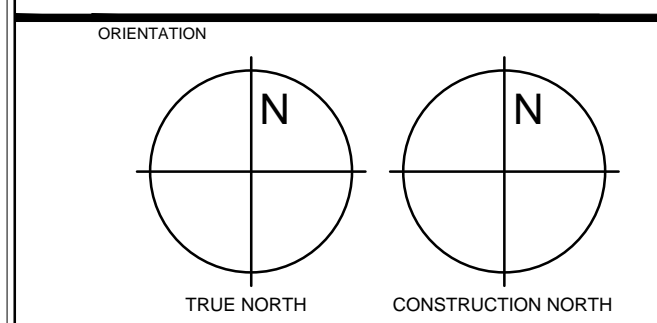
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PROFESSIONAL SEAL

 21-237

DWG TITLE
LIGHTING CONTROL SCHEMATICS



DATE: _____
 SCALE: **N.T.S.** DRAWN BY: CV CHECKED BY: RH
 DWG STATUS: _____
 PROJECT No.: _____
 DRAWING No.: **E7.0** REVISION: _____

PANEL 1A PANELBOARD SCHEDULE													
DESCRIPTION	BRKR SIZE	WATTS PER PHASE			CR NO	BUS ABC	WATTS PER PHASE			BRKR SIZE	DESCRIPTION		
		A	B	C			A	B	C				
BATTERY UNIT BU-1	20A	800			1				15A	RELAY PANEL			
EXIT LIGHT FIXTURES	15A		100		3				15A	HEATER			
EXTERIOR LIGHTING	20A			400	5				20A	2P			
NIGHT LIGHTING	20A	300			7				15A	HEATER			
LIGHTING	20A		900		9				15A	HEATER			
LIGHTING	20A			900	11				25A	2P			
LIGHTING	20A	1100			13				15A	HEATER			
LIGHTING	20A		900		15				20A	2P			
RECEPTACLES	20A	800			17				15A	DOOR OPERATOR			
RECEPTACLES	20A		800		21				15A	MOTORIZED DAMPERS			
RECEPTACLES	20A			800	23				15A	HEATER			
RECEPTACLES	20A	800			25				15A	RECEPTACLES			
RECEPTACLES	20A		600		27				15A	RECEPTACLES			
TV	15A			800	29				200	CEILING FAN CF-1			
SPARE	20A	600			31				15A	CEILING FAN CF-1			
SPARE	20A		600		33				15A	CEILING FAN CF-1			
SPARE	20A			200	35				30A	CEILING FAN CF-1			
SPARE	20A	200			37				15A	O/H DOOR			
FIRE ALERT SYSTEM	15A		200		39				3P				
RECEPTACLES	20A			600	41								
RECEPTACLES	20A	600			43				30A	O/H DOOR			
RECEPTACLES	20A			600	45				200				
RECEPTACLES	20A			600	47								
RECEPTACLES	15A	600			49				30A	DRYER			
RECEPTACLES	15A		600		51				20A	MECHGR			
RECEPTACLES	20A			600	53				15A	FRIDGE			
RECEPTACLES	15A	600			55				20A	MICROWAVE			
RECEPTACLES	15A		600		57				15A	DISHWASHER			
RECEPTACLES	15A			600	59				15A				

PANEL 1A (CONTD.)													
DESCRIPTION	BRKR SIZE	WATTS PER PHASE			CR NO	BUS ABC	WATTS PER PHASE			BRKR SIZE	DESCRIPTION		
		A	B	C			A	B	C				
RECEPTACLES	15A	600			61				40A	RANGE			
RECEPTACLES	15A		600		63				20A	RECEPTACLES			
RECEPTACLES	15A			600	65				15A	RANGEHOOD			
RECEPTACLES	15A	600			67				20A	RECEPTACLES			
ELECTRIC STRIKES	15A			100	69				20A	RECEPTACLES			
FACP (3/12-GRD.-21mmC)	2P	100			71				20A	RECEPTACLES			
FIRE ALARM MONITORING PANEL (FMP)	15A		100		75				15A	SPARE			
TRAP SEAL PRIMERS	15A			100	77				15A	SPARE			
ELECTRONIC FAUCETS	15A	100			79				15A	GEN. ANNUNCIATOR PANEL			
SPARE	15A				81				20A	RECEPTACLES			
SPARE	15A				83				60A	GENERATOR PANEL			
SPARE	15A				85				3P				
SPARE	15A				87				800				
SPARE	15A				89				20A	SPARE			
SPARE	15A				91				20A	SPARE			
SPARE	15A				93				20A	SPARE			
SPARE	15A				95				20A	SPARE			
SPARE	15A				97				20A	SPARE			
SPARE	15A				99				20A	SPARE			
SPARE	15A				101				20A	SPARE			
EXH. FAN HEF-1	15A	300			103				20A	SPARE			
EXH. FAN EF-2	15A		100		105				20A	SPARE			
EXH. FAN EF-4	15A			100	107				20A	SPARE			
EXH. FAN EF-6	15A	200			109				50A	2P			
EXH. FAN EF-11	15A			100	111				20A	SPARE			
					113								
					115								
					117								
					119								

PANEL 1B PANELBOARD SCHEDULE													
DESCRIPTION	BRKR SIZE	WATTS PER PHASE			CR NO	BUS ABC	WATTS PER PHASE			BRKR SIZE	DESCRIPTION		
		A	B	C			A	B	C				
BATTERY UNIT BU-2	20A	800			1				15A	RELAY PANEL			
EXIT LIGHT FIXTURES	15A		100		3				15A	HEATER			
SITE LIGHTING	20A			100	5				20A	2P			
EXTERIOR LIGHTING	20A			100	7				15A	HEATER			
NIGHT LIGHTING	20A	800			9				15A	HEATER			
LIGHTING	20A		200		11				25A	2P			
LIGHTING	20A	1000			13				15A	HEATER			
LIGHTING	20A		800		15				15A	HEATER			
RECEPTACLES	20A			600	17				15A	HEATER			
RECEPTACLES	20A	600			19				15A	HEATER			
TV	15A			800	21				25A	2P			
RECEPTACLES	15A		800		23				1500	2P			
RECEPTACLES	15A	600			25				1100	2P			
RECEPTACLES	15A		600		27				1100	2P			
RECEPTACLES	15A			600	29				200	15A			
RECEPTACLES	15A	600			31				32	200			
RECEPTACLES	15A		600		33				34	200			
RECEPTACLES	15A			600	35				36	2000			
RECEPTACLES	15A	600			37				38	2000			
RECEPTACLES	15A		600		39				40	20A			
RECEPTACLES	15A			600	41				42	600			
EXCESS PRESSURE PUMP	15A	200			43				44	600			
HEATER	15A		1000		45				46	600			
SPARE	15A				47				100	15A			
SPARE	15A				49				800	20A			
SPARE	15A				51				800	20A			
SPARE	15A				53				800	20A			
SPARE	15A				55				800	20A			
SPARE	15A				57				800	20A			
SPARE	15A				59				100	15A			
SPARE	15A				61				100	15A			
SPARE	15A				63				800	15A			
HEATER	15A			1000	65				800	20A			
SPARE	20A				67				100	15A			
SPARE	20A				69				100	15A			
SPARE	20A				71				100	15A			
SPARE	20A				73				100	15A			
SPARE	20A				75				100	15A			
SPARE	20A				77				100	15A			
SPARE	20A				79				100	15A			
SPARE	20A				81				100	15A			
SPARE	20A				83				100	15A			

PANEL 2A PANELBOARD SCHEDULE													
DESCRIPTION	BRKR SIZE	WATTS PER PHASE			CR NO	BUS ABC	WATTS PER PHASE			BRKR SIZE	DESCRIPTION		
		A	B	C			A	B	C				
LIGHTING	20A	400			1				15A	HEATER			
NIGHT LIGHTING	20A			200	3				15A	HEATER			
BATTERY UNIT BU-3	20A			600	5				15A	2P			
EXIT LIGHTS	15A	100			7				15A	MOTORIZED DAMPERS			
HOT WATER TANK HW-1	15A			1000	9				15A	RECEPTACLES			
	3P			1000	11				15A	RECEPTACLES			
	15A			1000	13				15A	RECEPTACLES			
HOT WATER TANK HW-2	15A			1000	15				15A	EXH. FAN EF-3			
	3P			1000	17				25A	PUMP P-1			
	20A				19				3P				
UPS	20A				21				700	PUMP P-2			
RE-CIRC. PUMP	15A	200			23				700	3P			
BMS SYSTEM	15A				25				700	20A			
FIRE ALERT SYSTEM	15A				27				500	20A			
DOOR ACCESS PANEL	15A				29				500	20A			
SECURITY PANEL	15A				31				500	20A			
RECEPTACLES	20A				33				500	20A			
RECEPTACLES	20A				35				500	20A			
RECEPTACLES	20A				37				500	20A			
SPARE	15A				39				20A	SPARE			
SPARE	15A				41				20A	SPARE			
SPARE	15A				43				20A	SPARE			
SPARE	15A				45				20A	SPARE			
SPARE	15A				47				20A	SPARE			
SPARE	15A				49				20A	SPARE			
SPARE	15A				51				20A	SPARE			
SPARE	15A				53				20A	SPARE			
SPARE	15A				55				20A	SPARE			
SPARE	15A				57				20A	SPARE			
SPARE	15A				59				20A	SPARE			

PANEL 1M PANELBOARD SCHEDULE													
DESCRIPTION	BRKR SIZE	WATTS PER PHASE			CR NO	BUS ABC	WATTS PER PHASE			BRKR SIZE	DESCRIPTION		
		A	B	C			A	B	C				
DUCT COIL HC-1	15A	500			1				2	400	15A	HEAT PUMP HP-1	
	2P			500	3				4	400	15A	HEAT PUMP HP-1	
DUCT COIL HC-2	15A			700	5				6	400	15A	HEAT PUMP HP-2	
	2P			700	7				8	400	15A	HEAT PUMP HP-2	
DUCT COIL HC-3	15A			800	9				10	1000	15A	HEAT PUMP HP-3	
	3P			800	11				12	1000	15A	HEAT PUMP HP-3	
DUCT COIL HC-4	15A			500	13				14	400	15A	HEAT PUMP HP-4	
	2P			500	15				16	400	15A	HEAT PUMP HP-4	
DUCT COIL HC-5	20A			1000	17				18	1000	15A	HEAT PUMP HP-5	
	2P			1000	19				20	1000	15A	HEAT PUMP HP-5	
DUCT COIL HC-6	15A			1000	21				22	400	15A	HEAT PUMP HP-6	
	2P			1000	23				24	1000	15A	HEAT PUMP HP-6	
DUCT COIL HC-7	20A			1000	25				26	1000	15A	HEAT PUMP HP-7	
	3P			1000	27				28	1000	15A	HEAT PUMP HP-7	
DUCT COIL HC-8	15A			500	29				30	400	15A	HEAT PUMP HP-8	
	2P			500	31				32	400	15A	HEAT PUMP HP-8	
DUCT COIL HC-9	15A			800	33				34	1000	15A	HEAT PUMP HP-9	
	2P			800	35				36	1000	15A	HEAT PUMP HP-9	
DUCT COIL HC-10	15A			800	37				38	1000	15A	HEAT PUMP HP-10	
	2P			800	39				40	1000	15A	HEAT PUMP HP-10	
	3P			800	41				42	400	15A	HEAT PUMP HP-11	
	2P			800	43				44	400	15A	HEAT PUMP HP-11	
	15A			800	45				46	600	15A	HEAT PUMP HP-12	
	2P			800	47				48	600	15A	HEAT PUMP HP-12	
	15A			800	49</								

MECHANICAL EQUIPMENT WIRING SCHEDULE									
EQUIPMENT & LABEL	STARTER LOCATION	UNIT		STARTER TYPE	BREAKER SIZE	FEEDER SIZE	PANEL AND OCT. NOS.	REMARKS	
		POWER PHASE	VOLTS						
HEAT RECOVERY UNIT HRU-1	ON UNIT	MCA 74.2	3	208	INTEGRAL 100A,3P	3#3+GRD.-41mmC	DP-AA	PROVIDE WEATHERPROOF 100A/30AF-3P FUSIBLE DISCONNECT SWITCH AT THE UNIT C/W LABEL SAYING MAX FUSES TO BE 80A	
HEAT PUMP HP(W)-1	MECH.RM.-143	MCA 43.0	3	208	INTEGRAL 60A,3P	3#6+GRD.-35mmC	DP-AA		
EXH. FAN HEF-1	MECH.RM.-143	AMP. 2.0	1	120	INTEGRAL 15A,1P	2#12+GRD.-16mmC	1A-103		
EXH. FAN EF-1	SPKL.RM.-132	WATTS 79	1	120	MAGNETIC 15A,1P	2#12+GRD.-16mmC	1B-68		
EXH. FAN EF-2	ELECT.RM.-133	WATTS 47	1	120	MANUAL 15A,1P	2#12+GRD.-16mmC	1A-105		
EXH. FAN EF-3	MECH.RM.-200	WATTS 79	1	120	MAGNETIC 15A,1P	2#12+GRD.-16mmC	2A-16		
EXH. FAN EF-4	JAN.RM.-127	WATTS 50	1	120	MAGNETIC 15A,1P	2#12+GRD.-16mmC	1A-107		
EXH. FAN EF-5	GEAR RM.-131	KW 2.0	1	208	MAGNETIC 50A,2P	2#8+GRD.-27mmC	1A-110/112	PROVIDE WEATHERPROOF 60A/45AF-3P FUSIBLE DISCONNECT SWITCH TO CONTROL POWER TO THE UNIT C/W LABEL SAYING MAX FUSES TO BE 45A	
EXH. FAN EF-6	HOSE TOWER-134	WATTS 187	1	120	MAGNETIC 15A,1P	2#12+GRD.-16mmC	1A-109		
EXH. FAN EF-7	BUNKER GEAR-130	WATTS 47	1	120	MAGNETIC 15A,1P	2#12+GRD.-16mmC	1B-74		
EXH. FAN EF-8	BUNKER GEAR-131	WATTS 108	1	120	MAGNETIC 15A,1P	2#12+GRD.-16mmC	1B-76		
EXH. FAN EF-9	GARBAGE RM.-136	WATTS 52	1	120	MAGNETIC 15A,1P	2#12+GRD.-16mmC	1B-78		
EXH. FAN EF-10	APPARATUS-129	HP 4.0	3	208	VFD 30A,3P	3#10+GRD.-27mmC	DP-AA	PROVIDE WEATHERPROOF 30A-3P FUSIBLE DISCONNECT SWITCH (C/W FUSES TO SUIT) TO CONTROL POWER TO THE UNIT.	
EXH. FAN EF-11	LAUNDRY-120	WATTS 47	1	120	MAGNETIC 15A,1P	2#12+GRD.-16mmC	1A-111		
CEILING FAN CF-1	APPARATUS-129	WATTS 157	1	120	MANUAL 15A,1P	2#12+GRD.-16mmC	1A-30	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR	
CEILING FAN CF-2	APPARATUS-129	WATTS 157	1	120	MANUAL 15A,1P	2#12+GRD.-16mmC	1A-32	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR	
CEILING FAN CF-3	APPARATUS-129	WATTS 157	1	120	MANUAL 15A,1P	2#12+GRD.-16mmC	1A-34	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR	
CEILING FAN CF-4	APPARATUS-129	WATTS 157	1	120	MANUAL 15A,1P	2#12+GRD.-16mmC	1A-36	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR	
PUMP P-1	MECH.RM.-200	HP 3.0	3	208	MAGNETIC 25A,3P	3#10+GRD.-21mmC	2A-18/20/22		
PUMP P-2	MECH.RM.-200	HP 3.0	3	208	MAGNETIC 25A,3P	3#10+GRD.-21mmC	2A-24/26/28		
PUMP P-3	MECH.RM.-200	HP 1.0	1	208	MAGNETIC 20A,2P	2#12+GRD.-16mmC	2A-30/32		
PUMP P-4	MECH.RM.-200	HP 1.0	1	208	MAGNETIC 20A,2P	2#12+GRD.-16mmC	2A-34/36		
HUMIDIFIER HU-1	MECH.RM.-200	MCA 51.9	3	208	INTEGRAL 70A,3P	3#4+GRD.-35mmC	DP-AA	PROVIDE 100A-3P FUSIBLE DISCONNECT SWITCH (C/W FUSES TO SUIT) TO CONTROL POWER TO THE UNIT.	
ELECTRIC DUCT COIL HC-1		KW 1.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-1/3		
ELECTRIC DUCT COIL HC-2		KW 1.3	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-5/7		
ELECTRIC DUCT COIL HC-3		KW 2.5	3	208	INTEGRAL 15A,3P	3#12+GRD.-21mmC	1M-9/11/13		
ELECTRIC DUCT COIL HC-4		KW 1.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-15/17		
ELECTRIC DUCT COIL HC-5		KW 4.5	3	208	INTEGRAL 20A,3P	3#12+GRD.-21mmC	1M-19/21/23		
ELECTRIC DUCT COIL HC-6		KW 1.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-25/27		
ELECTRIC DUCT COIL HC-7		KW 4.5	3	208	INTEGRAL 20A,3P	3#12+GRD.-21mmC	1M-29/31/33		
ELECTRIC DUCT COIL HC-8		KW 1.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-35/37		
ELECTRIC DUCT COIL HC-9		KW 2.4	3	208	INTEGRAL 15A,3P	3#12+GRD.-21mmC	1M-39/41/43		
ELECTRIC DUCT COIL HC-10		KW 2.4	3	208	INTEGRAL 15A,3P	3#12+GRD.-21mmC	1M-45/47/49		
ELECTRIC DUCT COIL HC-11		KW 1.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-57/59		

NOTES

- PROVIDE POWER CONNECTION TO ALL EQUIPMENTS LISTED IN THE SCHEDULE. REFER TO ELECTRICAL AND MECHANICAL LAYOUTS FOR EXACT LOCATION OF EQUIPMENTS.
- PROVIDE SEPARATE BREAKER FOR INDIVIDUAL MECHANICAL EQUIPMENT. SIZE AS INDICATED IN THE SCHEDULE.
- PROVIDE LOCAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENTS AS REQUIRED BY OESC.
- ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING TO & FROM STARTERS/VFD'S (STARTERS/VFD'S SUPPLIED BY MECH. CONTRACTOR & INSTALLED BY ELECTRICAL CONTRACTOR) TO MECHANICAL EQUIPMENTS.
- ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND SHALL COORDINATE FOR MECHANICAL EQUIPMENT LOCATIONS, STARTERS LOCATIONS AND BREAKERS SIZES & WIRES WITH THE MECHANICAL CONTRACTOR & CONSULTANT PRIOR TO ROUGH-IN.
- LOCATIONS OF THE EQUIPMENT STARTERS SHALL BE NEXT TO THE LIGHT SWITCH IN FINISHED ROOMS AND NEXT TO EQUIPMENT IN THE SERVICE ROOMS UNLESS OTHERWISE NOTED.
- LOCATIONS OF BOILERS AND HOT WATER HEATERS DISCONNECT SWITCHES SHALL BE NEXT TO THE ENTRANCE DOOR OF THE MECHANICAL ROOM.
- REFER TO MECHANICAL EQUIPMENT STARTER AND ELECTRICAL DATA SCHEDULES IN MECHANICAL DRAWING FOR ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
- RESERVED.
- LOCATION OF ON/OFF SWITCH'S, THERMOSTATS AND SPEED CONTROLLER SWITCH'S SHALL BE VERIFIED ON SITE WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
- PROVIDE POWER CONNECTION TO ALL REVERSE ACTING THERMOSTATS AND SPEED CONTROLLER SWITCHES AND FEED FROM RESPECTIVE CIRCUITS FEEDING REPECTIVE MECHANICAL EQUIPMENT WHICH SHALL BE CONTROLLED VIA THE REVERSE ACTING THERMOSTATS AND SPEED CONTROLLERS. LOCATIONS OF DEVICES SHALL BE WITHIN THE SAME ARE SERVED BY THE RESPECTIVE MECHANICAL EQUIPMENT. COORDINATE ON SITE FOR DEVICE LOCATIONS WITH ARCHITECT AND CONSULTANT PRIOR TO ROUGH IN.
- COORDINATE BREAKER SIZE FOR SPECIAL EQUIPMENT SUCH AS MECHANICAL EQUIPMENT, KITCHEN APPLIANCES, ELEVATOR ETC. BASED ON SELECTED MAKE, MODEL AND ELECTRICAL DATA. BOTH CONTRACTOR AND SUPPLIER/MANUFACTURER SHALL MAKE ALLOWANCE FOR VARIATION IN RATING TO TWO (2) SIZE HIGHER OR LOWER THAN SPECIFIED & RESPECTIVE VARIATION/REVISION OF FEEDER SIZES AT NO EXTRA COST.

MECHANICAL EQUIPMENT WIRING SCHEDULE									
EQUIPMENT & LABEL	STARTER LOCATION	UNIT		STARTER TYPE	BREAKER SIZE	FEEDER SIZE	PANEL AND OCT. NOS.	REMARKS	
		POWER PHASE	VOLTS						
HEAT PUMP HP-1	ON UNIT	MCA 4.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-2/4		
HEAT PUMP HP-2	ON UNIT	MCA 5.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-6/8		
HEAT PUMP HP-3	ON UNIT	MCA 11.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-10/12		
HEAT PUMP HP-4	ON UNIT	MCA 4.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-14/16		
HEAT PUMP HP-5	ON UNIT	MCA 11.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-18/20		
HEAT PUMP HP-6	ON UNIT	MCA 5.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-22/24		
HEAT PUMP HP-7	ON UNIT	MCA 11.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-26/28		
HEAT PUMP HP-8	ON UNIT	MCA 5.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-30/32		
HEAT PUMP HP-9	ON UNIT	MCA 11.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-34/36		
HEAT PUMP HP-10	ON UNIT	MCA 11.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-38/40		
HEAT PUMP HP-11	ON UNIT	MCA 5.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-42/44		
HEAT PUMP HP-12	ON UNIT	MCA 7.0	1	208	INTEGRAL 15A,2P	2#12+GRD.-16mmC	1M-46/48		
UNIT HEATER UH-1	ON UNIT	KW 25.0	3	208	---	100A,3P	3#3+GRD.-41mmC	DP-AA	
UNIT HEATER UH-2	ON UNIT	KW 25.0	3	208	---	100A,3P	3#3+GRD.-41mmC	DP-AA	
HOT WATER TANK HWT-1	MECH.RM.-200	KW 3.0	3	208	MANUAL 15A,3P	3#12+GRD.-21mmC	2A-9/11/13	PROVIDE LOCKABLE DISCONNECT SWITCH NEAR THE ENTRANCE DOOR OF THE ROOM	
HOT WATER TANK HWT-2	MECH.RM.-200	KW 3.0	3	208	MANUAL 15A,3P	3#12+GRD.-21mmC	2A-15/17/19	PROVIDE LOCKABLE DISCONNECT SWITCH NEAR THE ENTRANCE DOOR OF THE ROOM	
RE-CIRC. PUMP FOR HWT-1 & HWT-2	MECH.RM.-200	HP 1/4	1	120	MANUAL 15A,1P	2#12+GRD.-16mmC	2A-25		
EXCESS PRESSURE PUMP	SPKL.RM.-132	HP 1/4	1	120	MAGNETIC 15A,1P	2#12+GRD.-16mmC	1B-43		

NOTES

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ISSUE OR REVISION		
NO.	ISSUED FOR	DATE (M.D.Y)
1	DESIGN DEVELOPMENT FOR COSTING	07.07.22
2	ISSUED FOR PERMIT	09.07.23
3	ISSUED FOR REVIEW	02.13.24
4	ISSUED FOR TENDER	04.15.24
5	ISSUED FOR CONSTRUCTION	09.04.24

PROJECT:

CITY OF VAUGHAN FIRE STATION 7-12

9541 WESTON ROAD, VAUGHAN

CLIENT

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

MEP

7405 EAST DANBRO CRESCENT
MISSISSAUGA, ONTARIO, L5N 6P8
TEL: 905 285 9900, FAX: 905 567 5246
Email: m2@jainconsultants.com

PROFESSIONAL SEAL

21-237

DWG TITLE

SCHEDULES (CONTD.)

ORIENTATION

TRUE NORTH

CONSTRUCTION NORTH

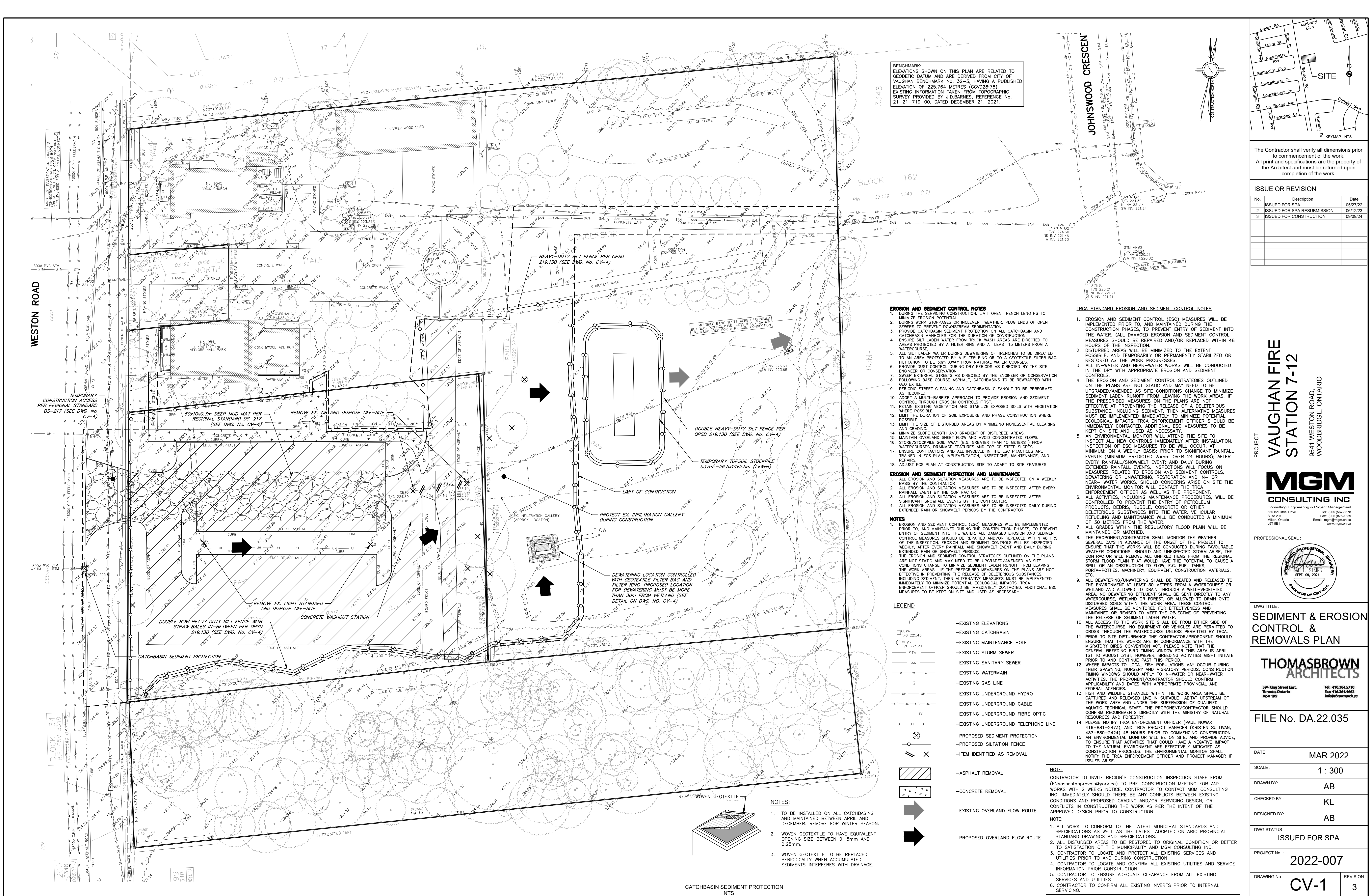
DATE

SCALE: **N.T.S.** DRAWN BY: CV CHECKED BY: RH

DWG STATUS:

PROJECT No.

DRAWING No. **E8.0** REVISION



BENCHMARK
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM CITY OF VAUGHAN BENCHMARK No. 32-3, HAVING A PUBLISHED ELEVATION OF 225.764 METRES (CVD2878). EXISTING INFORMATION TAKEN FROM TOPOGRAPHIC SURVEY PROVIDED BY J.D.BARNES, REFERENCE No. 21-21-719-00, DATED DECEMBER 21, 2021.

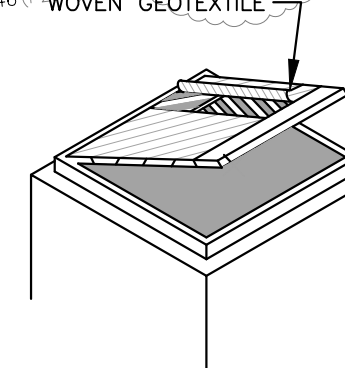
- EROSION AND SEDIMENT CONTROL NOTES**
1. DURING WORK STOPPAGES OR INCLEMENT WEATHER, PLUG ENDS OF OPEN SEWERS TO PREVENT DOWNSTREAM SEDIMENTATION.
 2. PROVIDE CATCHBASIN SEDIMENT PROTECTION ON ALL CATCHBASIN AND CATCHBASIN MANHOLES FOR THE DURATION OF CONSTRUCTION.
 3. ENSURE SILT LADEN WATER FROM TRUCK WASH AREAS ARE DIRECTED TO AREAS PROTECTED BY A FILTER RING AND AT LEAST 15 METERS FROM A WATERCOURSE.
 4. ALL SILT LADEN WATER DURING DEWATERING OF TRENCHES TO BE DIRECTED TO AN AREA PROTECTED BY A FILTER RING OR TO A GEOTEXTILE FILTER BAG. FILTRATION TO BE 30m AWAY FROM NATURAL WATER COURSES.
 5. PROVIDE DUST CONTROL DURING DRY PERIODS AS DIRECTED BY THE SITE ENGINEER OR CONSERVATION.
 6. SWEEP EXTERNAL STREETS AS DIRECTED BY THE ENGINEER OR CONSERVATION.
 7. FOLLOWING BASE COURSE ASPHALT, CATCHBASINS TO BE REWRAPPED WITH GEOTEXTILE.
 8. PERIODIC STREET CLEANING AND CATCHBASIN CLEANOUT TO BE PERFORMED AS REQUIRED.
 9. ADOPT A MULTI-BARRIER APPROACH TO PROVIDE EROSION AND SEDIMENT CONTROL THROUGH EROSION CONTROLS FIRST.
 10. RETAIN EXISTING VEGETATION AND STABILIZE EXPOSED SOILS WITH VEGETATION WHERE POSSIBLE.
 11. LIMIT THE DURATION OF SOIL EXPOSURE AND PHASE CONSTRUCTION WHERE POSSIBLE.
 12. LIMIT THE SIZE OF DISTURBED AREAS BY MINIMIZING NONESSENTIAL CLEARING AND GRADING.
 13. MINIMIZE SLOPE LENGTH AND GRADIENT OF DISTURBED AREAS.
 14. MAINTAIN OVERLAND SHEET FLOW AND AVOID CONCENTRATED FLOWS.
 15. STORE/STOCKPILE SOIL AWAY FROM (OTHER THAN 15 METERS) FROM WATERCOURSES, DRAINAGE FEATURES AND TOP OF STEEP SLOPES.
 16. ENSURE CONTRACTORS AND ALL INVOLVED IN THE ESC PRACTICES ARE TRAINED IN ESC PLAN, IMPLEMENTATION, INSPECTIONS, MAINTENANCE, AND REPAIRS.
 17. ADJUST ESC PLAN AT CONSTRUCTION SITE TO ADAPT TO SITE FEATURES.

- TRCA STANDARD EROSION AND SEDIMENT CONTROL NOTES**
1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. (ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION)
 2. DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
 3. ALL IN-WATER AND NEAR-WATER WORKS WILL BE CONDUCTED IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
 4. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND WILL NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE AT PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
 5. AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS IMMEDIATELY AFTER INSTALLATION. INSPECTION OF ESC MEASURES TO BE WILL OCCUR AT MINIMUM ON A WEEKLY BASIS, PRIOR TO SIGNIFICANT RAINFALL EVENTS (MINIMUM PREDICTED 25mm OVER 24 HOURS), AFTER EVERY RAINFALL/SNOWMELT EVENT; AND DAILY DURING EXTENDED RAINFALL EVENTS. INSPECTIONS WILL FOCUS ON EROSION AND SEDIMENT CONTROLS, DEWATERING OR UNWATERING, RESTORATION AND IN-OR NEAR- WATER WORKS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR WILL CONTACT THE TRCA ENFORCEMENT OFFICER AS WELL AS THE PROPONENT.
 6. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBER, OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELLING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
 7. ALL GRASSES WITHIN THE REGULATORY FLOOD PLAN WILL BE MAINTAINED OR MATCHED.
 8. THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS, SHOULD AN UNEXPECTED STORM ARRIVE. THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G. FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
 9. ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
 10. ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS PERMITTED BY TRCA. PRIOR TO SITE DISTURBANCE THE CONTRACTOR/PROponent SHOULD ENSURE THAT THE WORKS ARE IN CONFORMANCE WITH THE MIGRATORY BIRDS CONVENTION ACT. PLEASE NOTE THAT THE GENERAL BREEDING BIRD TIMING WINDOW FOR THIS AREA IS APRIL 1ST TO AUGUST 31ST, HOWEVER, BREEDING ACTIVITIES MIGHT INITIATE PRIOR TO AND CONTINUE PAST THIS PERIOD.
 11. WHERE IMPACTS TO LOCAL FISH POPULATIONS MAY OCCUR DURING THEIR SPAWNING, NURSERY AND MIGRATORY PERIODS, CONSTRUCTION TIMING WINDOWS SHOULD APPLY TO IN-WATER OR NEAR-WATER ACTIVITIES. THE PROPONENT/CONTRACTOR SHOULD CONFIRM APPLICABILITY AND DATES WITH APPROPRIATE PROVINCIAL AND FEDERAL AGENCIES.
 12. FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA AND UNDER THE SUPERVISION OF QUALIFIED AQUATIC TECHNICAL STAFF. THE PROPONENT/CONTRACTOR SHOULD CONFIRM REQUIREMENTS DIRECTLY WITH THE MINISTRY OF NATURAL RESOURCES AND FORESTRY.
 13. PLEASE NOTIFY TRCA ENFORCEMENT OFFICER (PAUL NOWAK, 416-881-2473), AND TRCA PROJECT MANAGER (KRISTEN SULLIVAN, 437-880-2424) 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. AN ENVIRONMENTAL MONITOR WILL BE ON SITE AND PROVIDE ADVICE TO ENSURE THAT ACTIVITIES THAT COULD HAVE A NEGATIVE IMPACT TO THE NATURAL ENVIRONMENT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. THE ENVIRONMENTAL MONITOR SHALL NOTIFY THE TRCA ENFORCEMENT OFFICER AND PROJECT MANAGER IF ISSUES ARISE.

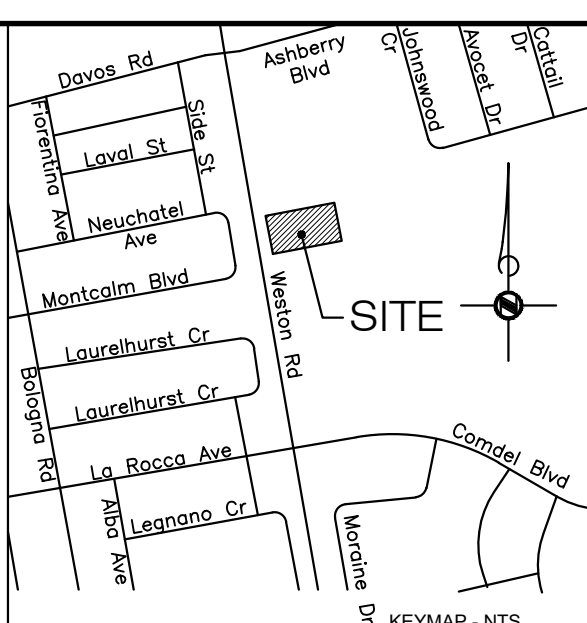
- EROSION AND SEDIMENT INSPECTION AND MAINTENANCE**
1. ALL EROSION AND SILTATION MEASURES ARE TO BE INSPECTED ON A WEEKLY BASIS BY THE CONTRACTOR
 2. ALL EROSION AND SILTATION MEASURES ARE TO BE INSPECTED AFTER EVERY RAINFALL EVENT BY THE CONTRACTOR OFFICER AS WELL AS THE PROPONENT.
 3. ALL EROSION AND SILTATION MEASURES ARE TO BE INSPECTED AFTER SIGNIFICANT SNOWMELT EVENTS BY THE CONTRACTOR OFFICER AS WELL AS THE PROPONENT.
 4. ALL EROSION AND SILTATION MEASURES ARE TO BE INSPECTED DAILY DURING EXTENDED RAIN OR SNOWMELT PERIODS BY THE CONTRACTOR

- NOTES**
1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HRS OF THE INSPECTION. EROSION AND SEDIMENT CONTROLS WILL BE INSPECTED WEEKLY, AFTER EVERY RAINFALL AND SNOWMELT EVENT AND DAILY DURING EXTENDED RAIN OR SNOWMELT PERIODS.
 2. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND WILL NEED TO BE UPGRADED/AMENDED AS THE SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF DELETERIOUS SUBSTANCES, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.

- LEGEND**
- EXISTING ELEVATIONS
 - EXISTING CATCHBASIN
 - EXISTING MAINTENANCE HOLE
 - EXISTING STORM SEWER
 - EXISTING SANITARY SEWER
 - EXISTING WATERMAIN
 - EXISTING GAS LINE
 - EXISTING UNDERGROUND HYDRO
 - EXISTING UNDERGROUND CABLE
 - EXISTING UNDERGROUND FIBRE OPTIC
 - EXISTING UNDERGROUND TELEPHONE LINE
 - PROPOSED SEDIMENT PROTECTION
 - PROPOSED SILTATION FENCE
 - ITEM IDENTIFIED AS REMOVAL
 - ASPHALT REMOVAL
 - CONCRETE REMOVAL
 - EXISTING OVERLAND FLOW ROUTE
 - PROPOSED OVERLAND FLOW ROUTE



- NOTES:**
1. TO BE INSTALLED ON ALL CATCHBASINS AND MAINTAINED BETWEEN APRIL AND DECEMBER. REMOVE FOR WINTER SEASON.
 2. WOVEN GEOTEXTILE TO HAVE EQUIVALENT OPENING SIZE BETWEEN 0.15mm AND 0.25mm.
 3. WOVEN GEOTEXTILE TO BE REPLACED PERIODICALLY WHEN ACCUMULATED SEDIMENTS INTERFERES WITH DRAINAGE.



The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION

No.	Description	Date
1	ISSUED FOR SPA	05/27/22
2	ISSUED FOR SPA RESUBMISSION	06/12/23
3	ISSUED FOR CONSTRUCTION	09/09/24

PROJECT:
VAUGHAN FIRE STATION 7-12
9541 WESTON ROAD,
WOODBIDGE, ONTARIO

MGM CONSULTING INC
Consulting Engineering & Project Management
555 Industrial Drive
Suite 201
Mississauga, Ontario
L5T 5E1
Tel: (905) 567-8678
Fax: (905) 875-1339
Email: mgm@mgm.on.ca
www.mgm.on.ca

PROFESSIONAL SEAL:
THOMAS BROWN ARCHITECTS
PROFESSIONAL ENGINEER
SEP 10, 2024
PROVINCE OF ONTARIO

DWG TITLE:
SEDIMENT & EROSION CONTROL & REMOVALS PLAN

THOMASBROWN ARCHITECTS
394 King Street East
Toronto, Ontario
M5A 1K9
Tel: 416.364.5710
Fax: 416.364.4662
info@thomasbrown.ca

FILE No. DA.22.035

DATE: MAR 2022

SCALE: 1 : 300

DRAWN BY: AB

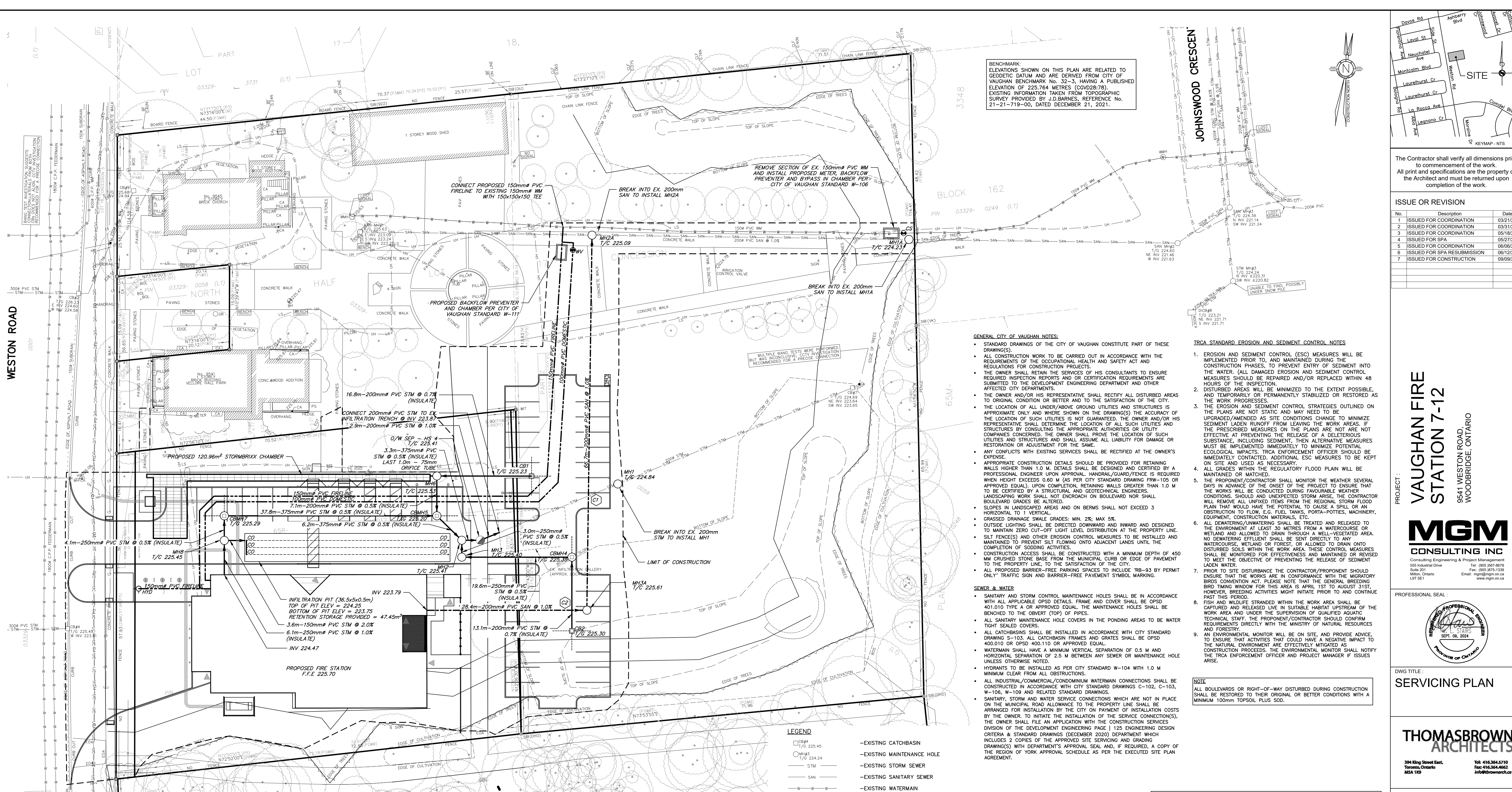
CHECKED BY: KL

DESIGNED BY: AB

DWG STATUS: ISSUED FOR SPA

PROJECT No.: 2022-007

DRAWING No.: CV-1 **REVISION:** 3



BENCHMARK ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM CITY OF VAUGHAN BENCHMARK No. 32-3, HAVING A PUBLISHED ELEVATION OF 225.764 METRES (COVID2878). EXISTING INFORMATION TAKEN FROM TOPOGRAPHIC SURVEY PROVIDED BY J.D.BARNES, REFERENCE No. 21-21-719-00, DATED DECEMBER 21, 2021.

GENERAL CITY OF VAUGHAN NOTES:

- STANDARD DRAWINGS OF THE CITY OF VAUGHAN CONSTITUTE PART OF THESE DRAWING(S).
- ALL CONSTRUCTION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- THE OWNER SHALL RETAIN THE SERVICES OF HIS CONSULTANTS TO ENSURE REQUIRED INSPECTION REPORTS AND/OR CERTIFICATION REQUIREMENTS ARE SUBMITTED TO THE DEVELOPMENT ENGINEERING DEPARTMENT AND OTHER AFFECTED CITY DEPARTMENTS.
- THE OWNER AND/OR HIS REPRESENTATIVE SHALL RECTIFY ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE CITY.
- THE LOCATION OF ALL UNDER/ABOVE GROUND UTILITIES AND STRUCTURES IS APPROXIMATE ONLY AND WHERE SHOWN ON THE DRAWING(S) THE ACCURACY OF THE LOCATION OF SUCH UTILITIES IS NOT GUARANTEED. THE OWNER AND/OR HIS REPRESENTATIVE SHALL DETERMINE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES BY CONSULTING THE APPROPRIATE AUTHORITIES OR UTILITY COMPANIES CONCERNED. THE OWNER SHALL PROVE THE LOCATION OF SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE OR RESTORATION OR ADJUSTMENT FOR THE SAME.
- ANY CONFLICTS WITH EXISTING SERVICES SHALL BE RECTIFIED AT THE OWNER'S EXPENSE.
- APPROPRIATE CONSTRUCTION DETAILS SHOULD BE PROVIDED FOR RETAINING WALLS HIGHER THAN 1.0 M. DETAILS SHALL BE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER UPON APPROVAL. HANDRAIL/GUARD/FENCE IS REQUIRED WHEN HEIGHT EXCEEDS 0.60 M (AS PER CITY STANDARD DRAWING FW-105 OR APPROVED EQUAL). UPON COMPLETION, RETAINING WALLS GREATER THAN 1.0 M TO BE CERTIFIED BY A STRUCTURAL AND GEOTECHNICAL ENGINEERS. LANDSCAPING WORK SHALL NOT ENCROACH ON BOULEVARD NOR SHALL BOULEVARD GRADES BE ALTERED.
- SLOPES IN LANDSCAPED AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
- GRASSED DRAINAGE SWALE GRADES: MIN. 2%; MAX. 5%.
- OUTSIDE LIGHTING SHALL BE DIRECTED DOWNWARD AND INWARD AND DESIGNED TO MAINTAIN ZERO CUT-OFF LIGHT LEVEL DISTRIBUTION AT THE PROPERTY LINE.
- SILT FENCE(S) AND OTHER EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED TO PREVENT SILT FLOWING ONTO ADJACENT LANDS UNTIL THE COMPLETION OF SODDING ACTIVITIES.
- CONSTRUCTION ACCESS SHALL BE CONSTRUCTED WITH A MINIMUM DEPTH OF 450 MM CRUSHED STONE BASE FROM THE MUNICIPAL CURB OR EDGE OF PAVEMENT TO THE PROPERTY LINE, TO THE SATISFACTION OF THE CITY.
- ALL PROPOSED BARRIER-FREE PARKING SPACES TO INCLUDE "R8-93 BY PERMIT ONLY" TRAFFIC SIGN AND BARRIER-FREE PAVEMENT SYMBOL MARKING.

TRCA STANDARD EROSION AND SEDIMENT CONTROL NOTES:

- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. (ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INCIDENT).
- DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED TO THE WORK PROGRESS.
- THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT ARE NOT EFFECTIVE AT PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES SHALL BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
- ALL GRADES WITHIN THE REGULATORY FLOOD PLAIN WILL BE MAINTAINED OR MATCHED.
- THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AND UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR TO BE UPLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DETERIORATING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DETERIORATING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN INTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET AND EXCEED THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
- PRIOR TO SITE DISTURBANCE THE CONTRACTOR/PROPONENT SHOULD ENSURE THAT THE PROJECTS ARE IN CONFORMANCE WITH THE MIGRATORY BIRDS CONVENTION ACT. PLEASE NOTE THAT THE GENERAL BREEDING BIRD TIMING WINDOW FOR THIS AREA IS APRIL 1ST TO AUGUST 31ST, HOWEVER, BREEDING ACTIVITIES MIGHT INITIATE PRIOR TO AND CONTINUE PAST THIS PERIOD.
- FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA AND UNDER THE SUPERVISION OF QUALIFIED AQUATIC TECHNICAL STAFF. THE PROPONENT/CONTRACTOR SHOULD CONFIRM REQUIREMENTS DIRECTLY WITH THE MINISTRY OF NATURAL RESOURCES AND FORESTRY.
- AN ENVIRONMENTAL MONITOR WILL BE ON SITE, AND PROVIDE ADVICE, TO ENSURE THAT ACTIVITIES THAT COULD HAVE A NEGATIVE IMPACT TO THE NATURAL ENVIRONMENT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. THE ENVIRONMENTAL MONITOR SHALL NOTIFY THE TRCA ENFORCEMENT OFFICER AND PROJECT MANAGER IF ISSUES ARISE.

SEWER & WATER

- SANITARY AND STORM CONTROL MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH ALL APPLICABLE OPSD DETAILS. FRAME AND COVER SHALL BE OPSD 401.010 TYPE A OR APPROVED EQUAL. THE MAINTENANCE HOLES SHALL BE BENCH TO THE OVERTOP (TOP) OF PIPES.
- ALL SANITARY MAINTENANCE HOLE COVERS IN THE PONDING AREAS TO BE WATER TIGHT SEALED COVERS.
- ALL CATCHBASINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DRAWING S-103. ALL CATCHBASIN FRAMES AND GRATES SHALL BE OPSD 400.010 OR OPSD 400.110 OR APPROVED EQUAL.
- WATERMAIN SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 0.5 M AND HORIZONTAL SEPARATION OF 2.5 M BETWEEN ANY SEWER OR MAINTENANCE HOLE UNLESS OTHERWISE NOTED.
- HYDRANTS TO BE INSTALLED AS PER CITY STANDARD W-104 WITH 1.0 M MINIMUM CLEAR FROM ALL OBSTRUCTIONS.
- ALL INDUSTRIAL/COMMERCIAL/CONDOMINIUM WATERMAIN CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD DRAWINGS C-102, C-103, W-106, W-109 AND RELATED STANDARD DRAWINGS.
- SANITARY, STORM AND WATER SERVICE CONNECTIONS WHICH ARE NOT IN PLACE ON THE MUNICIPAL ROAD ALLOWANCE TO THE PROPERTY LINE SHALL BE ARRANGED FOR INSTALLATION BY THE CITY ON PAYMENT OF INSTALLATION COSTS BY THE OWNER, TO INITIATE THE INSTALLATION OF THE SERVICE CONNECTION(S). THE OWNER SHALL FILE AN APPLICATION WITH THE CONSTRUCTION SERVICES DIVISION OF THE DEVELOPMENT ENGINEERING PAGE 1125 ENGINEERING DESIGN CRITERIA & STANDARD DRAWINGS (DECEMBER 2020) DEPARTMENT WHICH INCLUDES 2 COPIES OF THE APPROVED SITE SERVING AND GRADING DRAWING(S) WITH DEPARTMENT'S APPROVAL SEAL AND, IF REQUIRED, A COPY OF THE REGION OF YORK APPROVAL SCHEDULE AS PER THE EXECUTED SITE PLAN AGREEMENT.

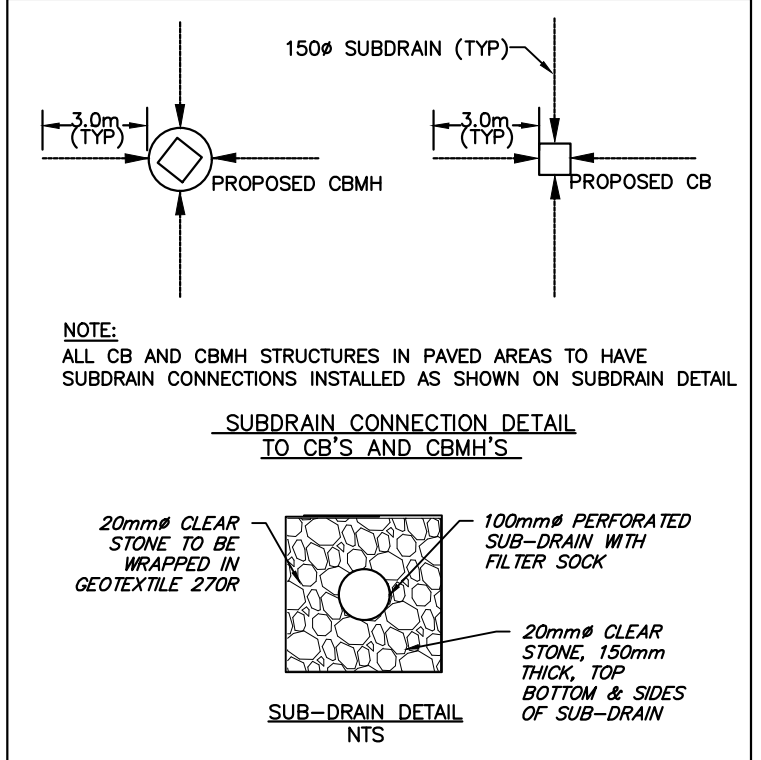
LEGEND

- CB#4 T/C 225.45 - EXISTING CATCHBASIN
- CB#3 T/C 224.24 - EXISTING MAINTENANCE HOLE
- STM - EXISTING STORM SEWER
- SAN - EXISTING SANITARY SEWER
- W - EXISTING WATERMAIN
- G - EXISTING GAS LINE
- UH - EXISTING UNDERGROUND HYDRO
- UC - EXISTING UNDERGROUND CABLE
- FD - EXISTING UNDERGROUND FIBRE OPTIC
- UT - EXISTING UNDERGROUND TELEPHONE LINE
- CB1 T/C 225.23 - PROPOSED CATCHBASIN
- CBM#6 T/C 225.29 - PROPOSED CATCHBASIN MAINTENANCE HOLE
- O/W SEP T/C 225.41 - PROPOSED OIL/GRIT SEPARATOR
- WV - PROPOSED WATER VALVE
- CS - PROPOSED CURB STOP
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATERMAIN
- PROPOSED SUBDRAIN (SEE DETAIL THIS SHEET)

STORM SEWER STRUCTURES				
STRUCTURE	OPSD STRUCTURE STANDARD	OPSD/GRATE COVER STANDARD	RIM	INVERT
CB1*	705.010	400.010	225.23	S 224.30
CB2*	705.010	400.010	225.30	N 224.32
MH1	701.010	401.010	224.84	SW 223.80 NE 223.79
MH2	701.010	401.010	225.41	NW 224.02 S 224.02 E 223.97
MH3	701.010	400.010	225.40	N 224.03 SE 224.08 E 224.08
CBM#4*	701.010	400.010	225.35	S 224.23 W 224.18
CBM#5*	701.010	400.010	225.20	N 224.10 SE 224.05 W 224.10
MH6	701.010	401.010	225.40	S 224.13 E 224.18 W 224.23
CBM#7*	701.010	400.010	225.29	S 224.34 E 224.29
MH8	701.010	401.010	225.45	N 224.36 S 224.41 E 223.95

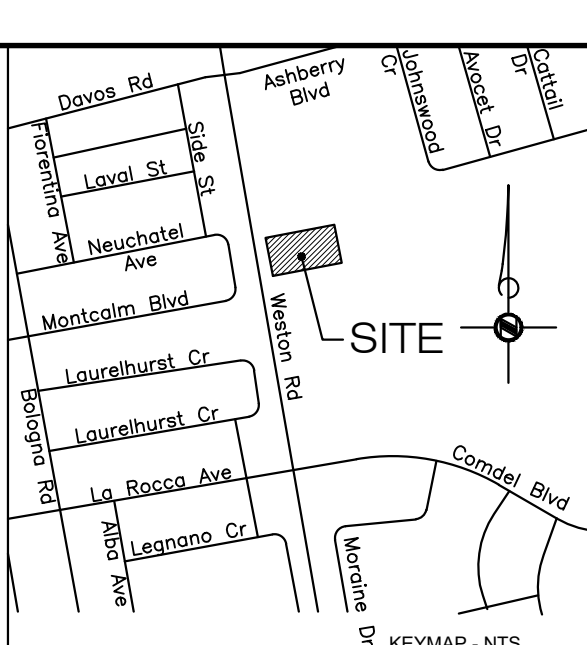
SANITARY SEWER STRUCTURES				
STRUCTURE	OPSD STRUCTURE STANDARD	OPSD/GRATE COVER STANDARD	RIM	INVERT
MH1A	701.010	401.010	224.23	W 222.11 E 222.10
MH2A	701.010	401.010	225.34	S 222.76 E 222.67
MH3A	701.010	401.010	225.61	S 223.43 W 223.51
O/W SEP	HL 4		225.41	NE 223.90 W 223.95

CROSSINGS			
No.	INV UPPER	OBV LOWER	CLEARANCE
1	223.81 STM	223.43 SAN	0.38m
2	224.29 STM	223.74 SAN	0.55m



NOTE:
CONTRACTOR TO INVITE REGION'S CONSTRUCTION INSPECTION STAFF FROM (ENVassessapprovals@york.ca) TO PRE-CONSTRUCTION MEETING FOR ANY WORKS WITH 2 WEEKS NOTICE. CONTRACTOR TO CONTACT MGM CONSULTING INC. IMMEDIATELY SHOULD THERE BE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND PROPOSED GRADING AND/OR SERVING DESIGN, OR CONFLICTS IN CONSTRUCTING THE WORK AS PER THE INTENT OF THE APPROVED DESIGN PRIOR TO CONSTRUCTION.

NOTE:
1. ALL WORK TO CONFORM TO THE LATEST MUNICIPAL STANDARDS AND SPECIFICATIONS AS WELL AS THE LATEST ADOPTED ONTARIO PROVINCIAL STANDARDS DRAWINGS AND SPECIFICATIONS.
2. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER TO SATISFACTION OF THE MUNICIPALITY AND MGM CONSULTING INC.
3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UTILITIES AND UTILITIES PRIOR TO AND DURING CONSTRUCTION.
4. CONTRACTOR TO LOCATE AND CONFIRM ALL EXISTING UTILITIES AND SERVICE INFORMATION PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO ENSURE ADEQUATE CLEARANCE FROM ALL EXISTING SERVICES AND UTILITIES.
6. CONTRACTOR TO CONFIRM ALL EXISTING INVERTS PRIOR TO INTERNAL SERVING.



The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION		
No.	Description	Date
1	ISSUED FOR COORDINATION	03/21/22
2	ISSUED FOR COORDINATION	03/31/22
3	ISSUED FOR COORDINATION	05/18/22
4	ISSUED FOR SPA	05/27/22
5	ISSUED FOR COORDINATION	06/06/23
6	ISSUED FOR SPA RESUBMISSION	06/12/23
7	ISSUED FOR CONSTRUCTION	09/09/24

VAUGHAN FIRE STATION 7-12
9541 WESTON ROAD, WOODBRIDGE, ONTARIO

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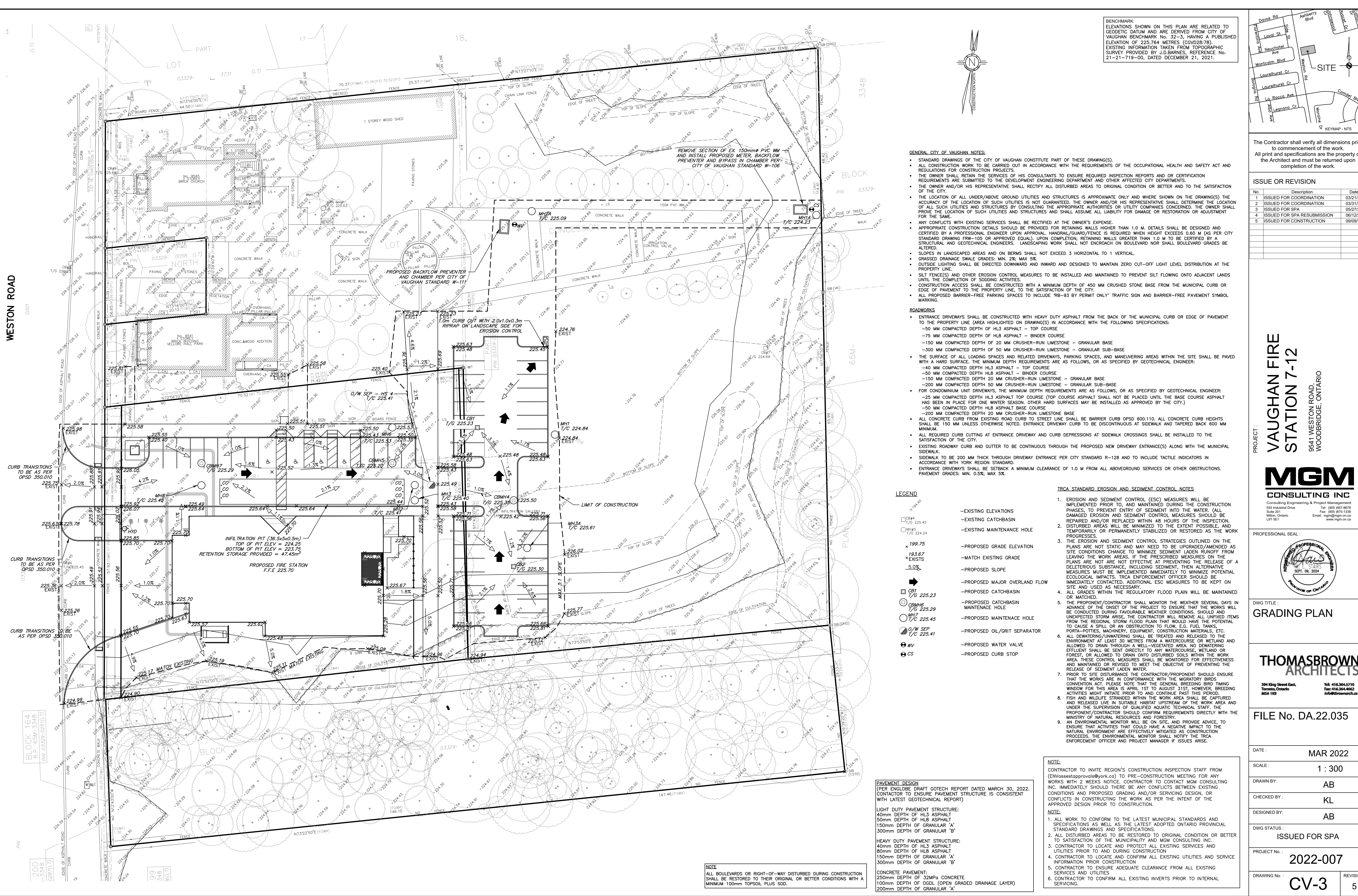
PROFESSIONAL SEAL:

DWG TITLE: SERVICING PLAN

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FILE No. DA.22.035

DATE:	MAR 2022
SCALE:	1 : 300
DRAWN BY:	AB
CHECKED BY:	KL
DESIGNED BY:	AB
DWG STATUS:	ISSUED FOR SPA
PROJECT No.:	2022-007
DRAWING No.:	CV-2
REVISION:	7



BENCHMARK ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM CITY OF VAUGHAN BENCHMARK No. 32-3, HAVING A PUBLISHED ELEVATION OF 225.764 METRES (CVD2878). EXISTING INFORMATION TAKEN FROM TOPOGRAPHIC SURVEY PROVIDED BY J.D.BARNES, REFERENCE No. 21-21-719-00, DATED DECEMBER 21, 2021.

- GENERAL CITY OF VAUGHAN NOTES:**
- STANDARD DRAWINGS OF THE CITY OF VAUGHAN CONSTITUTE PART OF THESE DRAWING(S).
 - ALL CONSTRUCTION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
 - THE OWNER SHALL RETAIN THE SERVICES OF HIS CONSULTANTS TO ENSURE REQUIRED INSPECTION REPORTS AND OR CERTIFICATION REQUIREMENTS ARE SUBMITTED TO THE DEVELOPMENT ENGINEERING DEPARTMENT AND OTHER AFFECTED CITY DEPARTMENTS.
 - THE OWNER AND/OR HIS REPRESENTATIVE SHALL RECTIFY ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE CITY.
 - THE LOCATION OF ALL UNDER/ABOVE GROUND UTILITIES AND STRUCTURES IS APPROXIMATE ONLY AND WHERE SHOWN ON THE DRAWING(S) THE ACCURACY OF THE LOCATION OF SUCH UTILITIES IS NOT GUARANTEED. THE OWNER AND/OR HIS REPRESENTATIVE SHALL DETERMINE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES BY CONSULTING THE APPROPRIATE AUTHORITIES OR UTILITY COMPANIES CONCERNED. THE OWNER SHALL PROVE THE LOCATION OF SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE OR RESTORATION OR ADJUSTMENT FOR THE SAME.
 - ANY CONFLICTS WITH EXISTING SERVICES SHALL BE RECTIFIED AT THE OWNER'S EXPENSE.
 - APPROPRIATE CONSTRUCTION DETAILS SHOULD BE PROVIDED FOR RETAINING WALLS HIGHER THAN 1.0 M. DETAILS SHALL BE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER UPON APPROVAL. HANDRAIL/GUARD/FENCE IS REQUIRED WHEN HEIGHT EXCEEDS 0.60 M (AS PER CITY STANDARD DRAWING FRW-105 OR APPROVED EQUAL). UPON COMPLETION, RETAINING WALLS GREATER THAN 1.0 M TO BE CERTIFIED BY A STRUCTURAL AND GEOTECHNICAL ENGINEERS. LANDSCAPING WORK SHALL NOT ENCROACH ON BOULEVARD NOR SHALL BOULEVARD GRADES BE ALTERED.
 - SLOPES IN LANDSCAPED AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
 - GRASSED DRAINAGE SWALE GRADES: MIN. 2%, MAX 5%.
 - OUTSIDE LIGHTING SHALL BE DIRECTED DOWNWARD AND INWARD AND DESIGNED TO MAINTAIN ZERO CUT-OFF LIGHT LEVEL DISTRIBUTION AT THE PROPERTY LINE.
 - SILT FENCE(S) AND OTHER EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED TO PREVENT SILT FLOWING ONTO ADJACENT LANDS OR EDGE OF PAVEMENT TO THE PROPERTY LINE, TO THE SATISFACTION OF THE CITY.
 - CONSTRUCTION ACCESS SHALL BE CONSTRUCTED WITH A MINIMUM DEPTH OF 450 MM CRUSHED STONE BASE FROM THE MUNICIPAL CURB OR EDGE OF PAVEMENT TO THE PROPERTY LINE, TO THE SATISFACTION OF THE CITY.
 - ALL PROPOSED BARRIER-FREE PARKING SPACES TO INCLUDE "R8-93 BY PERMIT ONLY" TRAFFIC SIGN AND BARRIER-FREE PAVEMENT SYMBOL MARKING.

- ROADWORKS**
- ENTRANCE DRIVEWAYS SHALL BE CONSTRUCTED WITH HEAVY DUTY ASPHALT FROM THE BACK OF THE MUNICIPAL CURB OR EDGE OF PAVEMENT TO THE PROPERTY LINE (AREA HIGHLIGHTED ON DRAWING(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
 - 50 MM COMPACTED DEPTH OF H/L3 ASPHALT - TOP COURSE
 - 75 MM COMPACTED DEPTH OF H/L8 ASPHALT - BINDER COURSE
 - 150 MM COMPACTED DEPTH OF 20 MM CRUSHER-RUN LESTONE - GRANULAR BASE
 - 300 MM COMPACTED DEPTH OF 50 MM CRUSHER-RUN LESTONE - GRANULAR SUB-BASE
 - THE SURFACE OF ALL LOADING SPACES AND RELATED DRIVEWAYS, PARKING SPACES, AND MANUEVERING AREAS WITHIN THE SITE SHALL BE PAVED WITH A HARD SURFACE. THE MINIMUM DEPTH REQUIREMENTS ARE AS FOLLOWS, OR AS SPECIFIED BY GEOTECHNICAL ENGINEER:
 - 40 MM COMPACTED DEPTH H/L3 ASPHALT - TOP COURSE
 - 50 MM COMPACTED DEPTH H/L8 ASPHALT - BINDER COURSE
 - 150 MM COMPACTED DEPTH 20 MM CRUSHER-RUN LESTONE - GRANULAR BASE
 - 200 MM COMPACTED DEPTH 50 MM CRUSHER-RUN LESTONE - GRANULAR SUB-BASE
 - FOR CONDOMINIUM UNIT DRIVEWAYS, THE MINIMUM DEPTH REQUIREMENTS ARE AS FOLLOWS, OR AS SPECIFIED BY GEOTECHNICAL ENGINEER:
 - 25 MM COMPACTED DEPTH H/L3 ASPHALT TOP COURSE (TOP COURSE ASPHALT SHALL NOT BE PLACED UNTIL THE BASE COURSE ASPHALT HAS BEEN IN PLACE FOR ONE WINTER SEASON. OTHER HARD SURFACES MAY BE INSTALLED AS APPROVED BY THE CITY.)
 - 50 MM COMPACTED DEPTH H/L8 ASPHALT BASE COURSE
 - 200 MM COMPACTED DEPTH 20 MM CRUSHER-RUN LESTONE BASE
 - ALL CONCRETE CURB FROM EXISTING ROAD CURB TO STREET LINE SHALL BE BARRIER CURB OPSD 600.110. ALL CONCRETE CURB HEIGHTS SHALL BE 150 MM UNLESS OTHERWISE NOTED. ENTRANCE DRIVEWAY CURB TO BE DISCONTINUOUS AT SIDEWALK AND TAPERED BACK 600 MM MINIMUM.
 - ALL REQUIRED CURB CUTTING AT ENTRANCE DRIVEWAY AND CURB DEPRESSIONS AT SIDEWALK CROSSINGS SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY.
 - EXISTING ROADWAY CURB AND GUTTER TO BE CONTINUOUS THROUGH THE PROPOSED NEW DRIVEWAY ENTRANCE(S) ALONG WITH THE MUNICIPAL SIDEWALK.
 - SIDEWALK TO BE 200 MM THICK THROUGH DRIVEWAY ENTRANCE PER CITY STANDARD R-128 AND TO INCLUDE TACTILE INDICATORS IN ACCORDANCE WITH YORK REGION STANDARD.
 - ENTRANCE DRIVEWAYS SHALL BE SETBACK A MINIMUM CLEARANCE OF 1.0 M FROM ALL ABOVEGROUND SERVICES OR OTHER OBSTRUCTIONS. PAVEMENT GRADES: MIN. 0.5%; MAX 5%.

- LEGEND**
- CB#4 1/2 225.45 - EXISTING ELEVATIONS
 - MH#3 1/2 224.24 - EXISTING CATCHBASIN
 - MH#3 1/2 224.24 - EXISTING MAINTENANCE HOLE
 - × 189.75 - PROPOSED GRADE ELEVATION
 - × 193.67 - MATCH EXISTING GRADE
 - 5.0% - PROPOSED SLOPE
 - ➡ - PROPOSED MAJOR OVERLAND FLOW
 - CB#1 1/2 225.23 - PROPOSED CATCHBASIN
 - CB#M#5 1/2 225.29 - PROPOSED CATCHBASIN MAINTENANCE HOLE
 - MH#7 1/2 225.45 - PROPOSED MAINTENANCE HOLE
 - ⊙ O/W SEP 1/2 225.41 - PROPOSED OIL/GRIT SEPARATOR
 - ⊙ W - PROPOSED WATER VALVE
 - ⊙ CS - PROPOSED CURB STOP

- TRCA STANDARD EROSION AND SEDIMENT CONTROL NOTES**
- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. (ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
 - DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
 - THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT EFFECTIVE AT PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE AT PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, FROM LEAVING THE WORK AREAS, THE CONTRACTOR SHALL TAKE ALTERNATIVE MEASURES TO PREVENT THE RELEASE OF A DELETERIOUS SUBSTANCE. IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
 - ALL GRADES WITHIN THE REGULATORY FLOOD PLAN WILL BE MAINTAINED OR MATCHED.
 - THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVORABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAN THAT WOULD HAVE THE POTENTIAL FOR SPILL OR AN OBSTRUCTION TO FLOW, E.G. FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
 - ALL DETERIORATING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEFERRING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
 - PRIOR TO SITE DISTURBANCE THE CONTRACTOR/PROponent SHOULD ENSURE THAT THE WORKS ARE IN CONFORMANCE WITH THE MORTGATORY BIRDS CONVENTION ACT. PLEASE NOTE THAT THE GENERAL BREEDING BIRD TIMING WINDOW FOR THIS AREA IS APRIL 1ST TO AUGUST 31ST, HOWEVER, BREEDING ACTIVITIES MIGHT INITIATE PRIOR TO AND CONTINUE PAST THIS PERIOD.
 - FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA AND UNDER THE SUPERVISION OF QUALIFIED AQUATIC TECHNICAL STAFF. THE PROPONENT/CONTRACTOR SHOULD CONFIRM REQUIREMENTS DIRECTLY WITH THE MINISTRY OF NATURAL RESOURCES AND FORESTRY.
 - AN ENVIRONMENTAL MONITOR WILL BE ON SITE, AND PROVIDE ADVICE, TO ENSURE THAT ACTIVITIES THAT COULD HAVE A NEGATIVE IMPACT TO THE NATURAL ENVIRONMENT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. THE ENVIRONMENTAL MONITOR SHALL NOTIFY THE TRCA ENFORCEMENT OFFICER AND PROJECT MANAGER IF ISSUES ARISE.

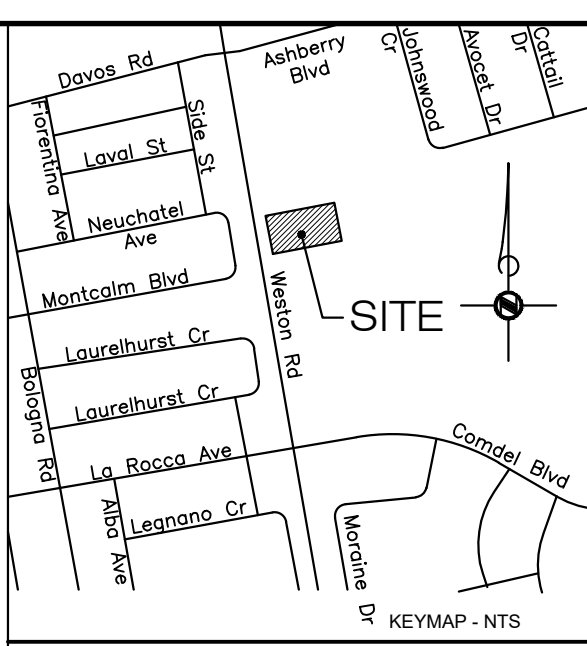
PAVEMENT DESIGN
(PER ENCLOSED DRAFT GOTECH REPORT DATED MARCH 30, 2022. CONTRACTOR TO ENSURE PAVEMENT STRUCTURE IS CONSISTENT WITH LATEST GEOTECHNICAL REPORT)

LIGHT DUTY PAVEMENT STRUCTURE:
40mm DEPTH OF H/L3 ASPHALT
50mm DEPTH OF H/L8 ASPHALT
150mm DEPTH OF GRANULAR 'A'
300mm DEPTH OF GRANULAR 'B'

HEAVY DUTY PAVEMENT STRUCTURE:
40mm DEPTH OF H/L3 ASPHALT
80mm DEPTH OF H/L8 ASPHALT
150mm DEPTH OF GRANULAR 'A'
300mm DEPTH OF GRANULAR 'B'

CONCRETE PAVEMENT:
250mm DEPTH OF 32MPa CONCRETE
100mm DEPTH OF OGD (OPEN GRADED DRAINAGE LAYER)
200mm DEPTH OF GRANULAR 'A'

NOTE:
ALL BOULEVARDS OR RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITIONS WITH A MINIMUM 100mm TOPSOIL PLUS SOD.



The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION

No.	Description	Date
1	ISSUED FOR COORDINATION	03/21/22
2	ISSUED FOR COORDINATION	03/31/22
3	ISSUED FOR SPA	05/27/22
4	ISSUED FOR SPA RESUBMISSION	06/12/23
5	ISSUED FOR CONSTRUCTION	09/09/24

PROJECT:
VAUGHAN FIRE STATION 7-12
9541 WESTON ROAD, WOODBRIDGE, ONTARIO

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PROFESSIONAL SEAL:
THOMAS BROWN ARCHITECTS
SEP. 09, 2024
PROFESOR OF CIVIL ENGINEERING

DWG TITLE:
GRADING PLAN

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FILE No. DA.22.035

DATE:	MAR 2022
SCALE:	1 : 300
DRAWN BY:	AB
CHECKED BY:	KL
DESIGNED BY:	AB
DWG STATUS:	ISSUED FOR SPA
PROJECT No.:	2022-007
DRAWING No.:	CV-3
REVISION:	5

PLANT LIST

KEY	QUANT	BOTANICAL NAME	COMMON NAME	HEIGHT	SPREAD	CALIPER	SPACING	COND.	REMARKS
DECIDUOUS TREES									
AF	06	Acer freemanii 'Jefferson'	Autumn Blaze Maple	4000	2000	60	as shown	WB	FULL FORM
GB	09	Genioa biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	4000	2000	60	as shown	WB	FULL FORM
GT	05	Gleditsia tricanthos 'Shademaster'	Shademaster Honey Locust	4000	2000	60	as shown	WB	FULL FORM
QM	03	Quercus macrocarpa	Burr Oak	4000	2000	60	as shown	WB	FULL FORM
QR	05	Quercus robur 'Fastigiata'	Pyramidal English Oak	4000	2000	60	as shown	WB	FULL FORM
CONIFEROUS TREES									
PG	06	Picea glauca	White Spruce	1750	1500	-	as shown	WB	FULL FORM
PS	17	Pinus strobus	Eastern White Pine	1750	1500	-	as shown	WB	FULL FORM
DECIDUOUS SHRUBS									
CF	66	Cornus sericea 'Arctic Fire'	Arctic Fire Dogwood	600	600	700	CG	Full Form	
Ca	23	Cornus sanguinea 'Arctic Sun'	Arctic Sun Dogwood	600	600	700	CG	Full Form	
Di	99	Diervilla lonicera	Bush Honeysuckle	600	600	700	CG	Full Form	
Rha	75	Rhus aromatica 'Gro Low'	Gro Low Fragrant Sumac	600	-	900	CG	Full Form	
CONIFEROUS SHRUBS									
Tm	28	Taxus x media 'Hicksl'	Hicks Yew	700	-	700	CG	Full Form	
PERENNIALS AND ORNAMENTAL GRASS									
pa	124	Penstemon alpestris 'Little Bunny'	Little Bunny Fountain Grass	-	-	-	500	2GAL	Full Form
lc	105	Imperata cylindrica 'Red Baron'	Japanese Blood Grass	-	-	-	500	2GAL	Full Form

PLANTING NOTES:

- CHECK ALL QUANTITIES
- REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT
- THE QUANTITIES INDICATED ON THE PLAN SUPERSEDE THE TOTALS OF THE PLANT LIST
- THE LAYOUT OF ALL PLANT MATERIAL IS TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

GENERAL NOTES

- VERIFY ALL DIMENSIONS.
- DO NOT SCALE DRAWINGS.
- REPORT ANY DISCREPANCIES, DISCOVERED ERRORS, OR OMISSIONS TO THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
- IT IS ADVISED THAT CONTRACTORS CONTACT THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ENSURE THE USE OF THE LATEST REVISED DRAWINGS.
- DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE LANDSCAPE ARCHITECT.

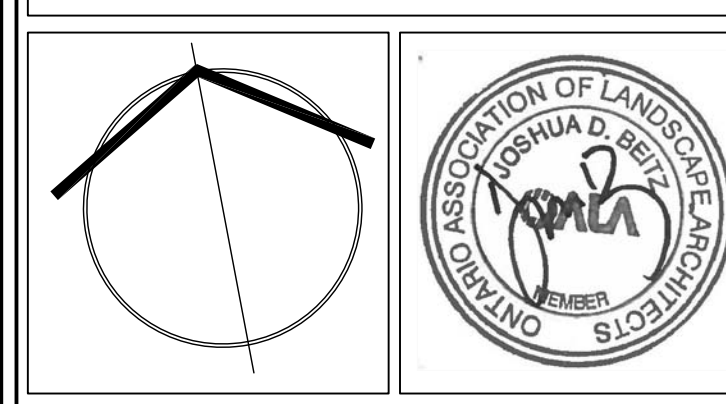
KEY MAP LEGEND

LEGEND

- EXISTING TREES TO BE PRESERVED
- PROPOSED DECIDUOUS TREE
- PROPOSED CONIFEROUS TREE
- PROPOSED SHRUBS
- SODDING
- CONCRETE WALKWAY
- UNIT PAVING
- ASPHALT PAVING
- BIKE PARKING

No.	DATE	REVISION	BY
1	SEPT 29, 2023	ISSUED FOR SPA (FOLLOWING PREVIOUS LANDSCAPE SUBMISSION BY OTHERS)	JB

It is the responsibility of the Contractor and/or Owner to ensure that the drawings with the latest revisions are used for construction.



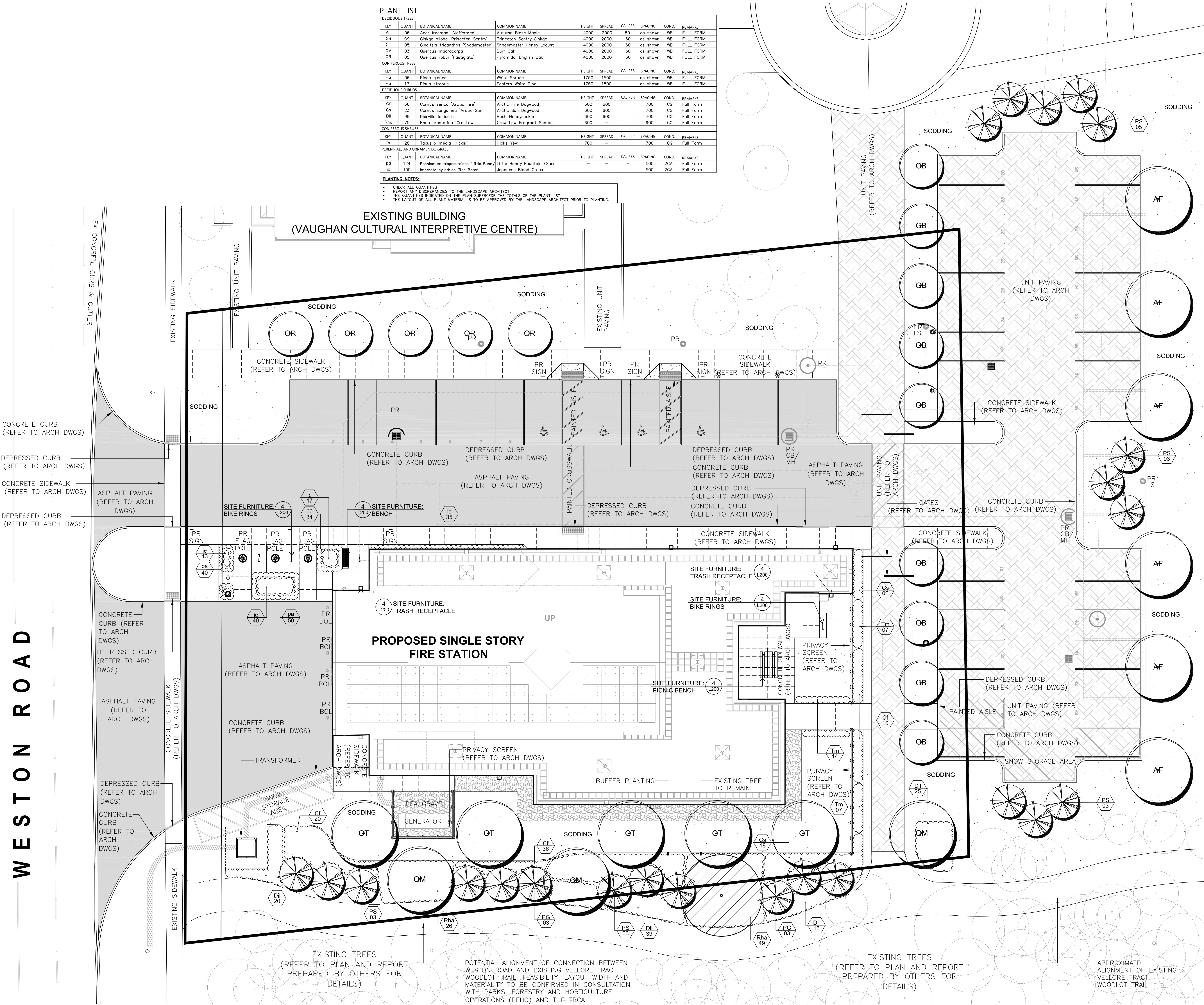
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 T: 416.695.4949 F: 905.712.3101
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STRYBOS BARRON KING
 LANDSCAPE ARCHITECTURE

PROJECT:
CITY OF VAUGHAN FIRE STATION 7-12
 9511 WESTON ROAD, VAUGHAN

DRAWING TITLE:
LANDSCAPE PLAN

SCALE: 1:125	PROJECT No. 23-5941
DATE: AUGUST 2023	DRAWING No. L100
DRAWN BY: S.S.	
CHECKED BY: J.B.	



WESTON ROAD

EXISTING TREES (REFER TO PLAN AND REPORT PREPARED BY OTHERS FOR DETAILS)

POTENTIAL ALIGNMENT OF CONNECTION BETWEEN WESTON ROAD AND EXISTING VELLORE TRACT WOODLOT TRAIL. FEASIBILITY, LAYOUT WIDTH AND MATERIALITY TO BE CONFIRMED IN CONSULTATION WITH PARKS, FORESTRY AND HORTICULTURE OPERATIONS (PFHO) AND THE TRCA

EXISTING TREES (REFER TO PLAN AND REPORT PREPARED BY OTHERS FOR DETAILS)

APPROXIMATE ALIGNMENT OF EXISTING VELLORE TRACT WOODLOT TRAIL

