



Pre-Engineered Building

University of Toronto Mississauga

3265 Principal's Road, Mississauga

Issued for Tender 2024-11-25

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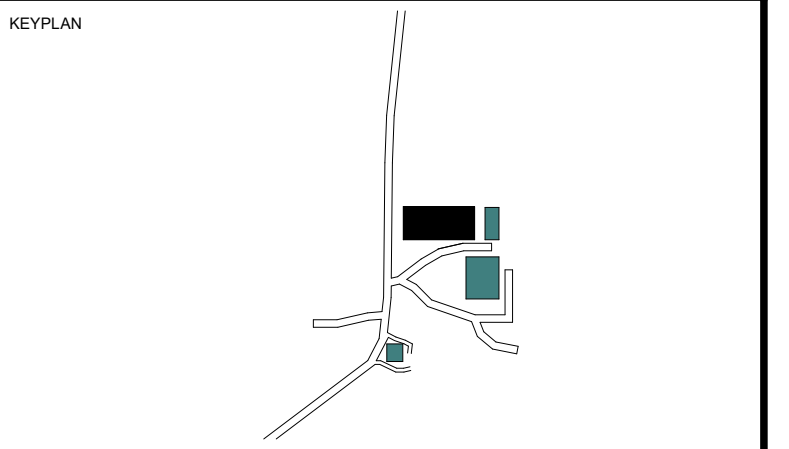
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No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
4	Issued for SPA	2024-02-09
5	Issued for Design Development Costing	2024-03-28
6	Issued for Permit	2024-11-08
7	Issued for Tender	2024-11-25

ARCHITECTURAL DRAWING LIST	
Sheet Number	Sheet Name
A000	COVER SHEET & DRAWING LIST
A001	RESPONSIBILITY MATRIX
A002	LIFE SAFETY AND CODE MATRIX
A003	ASSEMBLIES, LEGENDS & NOTES
A004	SCHEDULES
A100	CONTEXT PLAN
A101	SITE PLAN
A200	FOUNDATION PLAN
A201	SLAB EDGE PLAN
A202	GROUND FLOOR PLAN
A203	MEZZANINE FLOOR PLAN
A204	ROOF PLAN
A211	ENLARGED PLANS - WEST WING/ FSC
A212	ENLARGED PLANS - CENTRAL WING
A213	ENLARGED PLANS - EAST WING/CROBE
A301	REFLECTED CEILING PLAN
A401	ELEVATIONS
A402	ELEVATIONS
A501	BUILDING SECTIONS
A502	BUILDING SECTIONS
A510	WALL SECTIONS
A511	WALL SECTIONS
A520	PLAN DETAILS - ENVELOPE
A525	SECTION DETAILS - ENVELOPE
A526	SECTION DETAILS - ENVELOPE
A527	SECTION DETAILS - ENVELOPE
A528	ENTRANCE CANOPY DETAILS
A530	ROOF TOP ENCLOSURE DETAILS
A601	PLAN DETAILS - INTERIOR
A602	SECTION DETAILS - INTERIOR
A701	INTERIOR ELEVATIONS
A702	INTERIOR ELEVATIONS
A703	INTERIOR ELEVATIONS
A704	INTERIOR ELEVATIONS
A705	INTERIOR ELEVATIONS
A706	INTERIOR ELEVATIONS
A707	INTERIOR ELEVATIONS
A708	INTERIOR ELEVATIONS
A709	INTERIOR ELEVATIONS
A710	INTERIOR ELEVATIONS
A801	MILLWORK SCHEDULE KEY PLAN
A802	MILLWORK DRAWINGS - FORENSIC GARAGE
A803	MILLWORK DRAWINGS - LOUNGE
A804	MILLWORK DRAWINGS - CROBE
A805	MILLWORK DRAWINGS - CROBE
A806	MILLWORK DRAWINGS - CROBE

CIVIL DRAWING LIST	
Sheet Number	Sheet Name
C2.1	SITE GRADING, EROSION & SEDIMENT CONTROL PLAN
C2.2	SITE SERVICING PLAN
C2.3	NOTES AND DETAILS PLAN

LANDSCAPE DRAWING LIST	
Sheet Numbers	Sheet Names
L100	LANDSCAPE PLAN
L200	SITE PLANTING PLAN
L210	ECOLOGICAL OFFSETTING PLANTING PLAN
L211	ECOLOGICAL OFFSETTING PLANTING PLAN
L220	LAND-BASED OFFSETTING PLANTING PLAN
L300	LANDSCAPE DETAILS
L301	LANDSCAPE DETAILS

MECHANICAL DRAWING LIST	
Sheet Number	Sheet Name
M001	MECHANICAL LEGEND, DRAWING LIST
M100	PLUMBING - UNDERSLAB
M101	PLUMBING - GROUND FLOOR AND MEZZANINE
M102	PLUMBING - ROOF
M301	HVAC - GROUND FLOOR AND MEZZANINE
M302	HVAC - ROOF
M500	MECHANICAL DETAILS
M501	MECHANICAL DETAILS
M502	REFRIGERANT PIPING DIAGRAMS
M800	MECHANICAL SCHEDULES
M801	MECHANICAL SCHEDULES

FIRE PROTECTION DRAWING LIST	
Sheet Number	Sheet Name
FP-1	SITE PLAN AND GENERAL NOTES
FP-2.1	NFPA FIGURES AND GENERAL NOTES
FP-2.2	NFPA FIGURES AND GENERAL NOTES
FP-2.3	RISER SCHEMATIC AND SUPERVISED SCHEDULE
FP-3	PROPOSED SPRINKLER LAYOUT GROUND FLOOR
FP-4	PROPOSED SPRINKLER LAYOUT MEZZANINE FLOOR

ELECTRICAL DRAWING LIST	
Sheet Number	Sheet Name
E001	ELECTRICAL LEGEND AND DRAWING LIST
E100	ELECTRICAL SITE PLAN
E101	ELECTRICAL SITE LIGHTING PLAN
E201	LIGHTING LAYOUT
E301	POWER AND SYSTEMS LAYOUT - GROUND FLOOR
E302	POWER AND SYSTEMS LAYOUT - MEZZANINE PLAN
E303	POWER AND SYSTEMS LAYOUT - ROOF PLAN
E500	ELECTRICAL SINGLE LINE DIAGRAM
E701	MECHANICAL SCHEDULE
E702	LIGHTING SCHEDULE
E703	FIRE ALARM SCHEDULE
E801	ELECTRICAL DETAILS
E802	LIGHTING CONTROL DETAILS

TELECOMMUNICATIONS DRAWING LIST	
Sheet Number	Sheet Name
T-001	LEGEND, DRAWING LIST AND NOTES
T-002	SPECIFICATIONS
T-101	SITE PLAN
T-201	TELECOM LAYOUTS
T-301	HUB ROOM LAYOUT AND ELEVATION
T-401	DETAILS

SECURITY DRAWING LIST	
Sheet Number	Sheet Name
SD-001	LEGEND, DRAWING LIST AND NOTES
SD-002	SPECIFICATIONS
SD-201	GROUND FLOOR SECURITY LAYOUT
SD-401	DETAILS

AUDIO-VISUAL DRAWING LIST	
Sheet Number	Sheet Name
AV000	AV DRAWING LIST
AV001	AV LEGENDS, NOTES & COORDINATION MATRIX
AV101A	GROUND FLOOR - AV DEVICE FLOOR PLAN
AV101B	GROUND FLOOR - AV DEVICE RCP
AV200	AV ELEVATIONS
AV300	AV CONDUIT NOTES
AV301	AV RISER DIAGRAM
AV400	AV DETAILS
AV401	AV DETAILS
AV500	AV FUNCTIONALS
AV501	AV FUNCTIONALS
AV502	AV FUNCTIONALS

**FOR REFERENCE ONLY:
FOUNDATION AND FRAME BY OTHER**

STRUCTURAL - FOUNDATION - DRAWING LIST	
Sheet Number	Sheet Name
S100	FOUNDATION PLAN
S101	SLAB PLAN
S401	PIER DETAILS
S402	PIER DETAILS
S500	CONCRETE DETAILS
S600	STRUCTURAL NOTES AND SCHEDULES

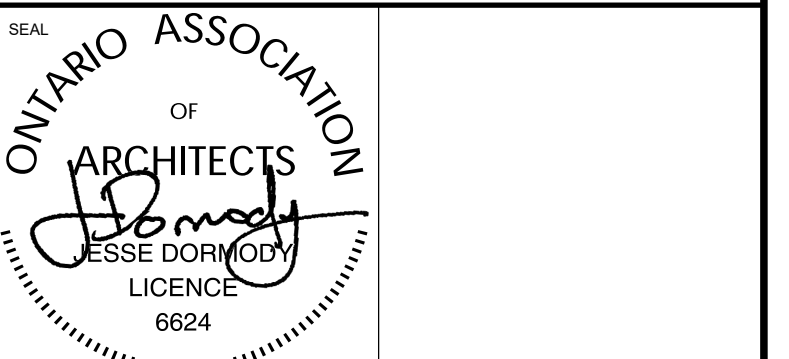
STRUCTURAL - FRAME - DRAWING LIST	
Sheet Number	Sheet Name
1	GENERAL 3D VIEW
1A	DRAWING SCHEDULE
1B	GENERAL INFORMATION SHEET AND CONFORMANCE
1C	GENERAL INFORMATION SHEET
2	GENERAL INFORMATION SHEET
2A	ANCHOR ROD PLAN
2B	ANCHOR ROD DETAILS
3	ANCHOR ROD REACTIONS
3A	ROOF LOADS
4	RIGID FRAME ELEVATION
4A	RIGID FRAME ELEVATION
4B	WIND BENT ELEVATION
5	ROOF FRAMING
6	ENDWALL FRAMING
7	ENDWALL FRAMING
8	SIDEWALL FRAMING
9	SIDEWALL FRAMING
10	FLOOR FRAMING AND JOISTS

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PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
COVER SHEET & DRAWING LIST

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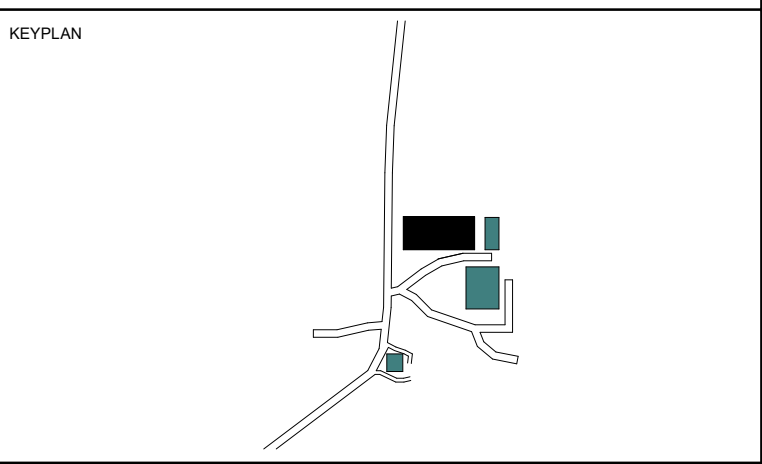


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SCALE: 1 : 1	SHEET NO:
DATE: 03/28/2024	A000
PROJECT NO: 2301	
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DIVISION	ITEM	SCOPE			
		Other - Pre-Engineered	General Contractor	Owner	Other - per note
NOTE: Scope items not noted in this list are the responsibility of the General Contractor					
Div 01	General Requirements				
	CCTV site monitoring		X		
	construction survey	X (foundation only)	X		
	locates		X		
Div 02	Existing Conditions				
Div 03	Concrete				
	Foundation walls, footings, and piers	supply and install	coordinate		
	frost slabs		supply and install		
	slab-on-grade	supply and install	coordinate		
	slab on metal deck at mezzanine	supply and install	coordinate		
	service openings in foundation wall	install	coordinate		
	concrete polishing		supply and install		
	concrete sealer		supply and install		
	exterior paving		supply and install		
Div 05	Metals				
	Moment Frames and wind-bent frames	supply and install	coordinate		
	Cross Bracing	supply and install	coordinate		
	roof purlins	supply and install	coordinate		
	wall girts	supply and install	coordinate		
	framing at openings [windows, doors, roof curbs]	supply and install	coordinate		
	mezzanine framing and deck	supply and install	coordinate		
	Entrance canopy [framing only]	supply and install	coordinate		
	Rooftop Mechanical enclosure		supply and install		
	Metal Fabrications - refer to 05 50 00		supply and install		
	Architectural Metal Fabrications - refer to 05 70 00		supply and install		
Div 06	Wood, Plastics and Composites		supply and install		
Div 07	Thermal and Moisture Protection				
	foundation wall - waterproofing	supply and install	coordinate		
	foundation wall - insulation	supply and install	coordinate		
	slab-on-grade - insulation and vapour barrier	supply and install	coordinate		
	Walls - Insulated Metal Panels	supply and install	coordinate		
	Roof - Insulated Metal Panels	supply and install	coordinate		
	IMP opening - temporary protection	supply and install	supply and install		
	IMP/IMP interface - sealing and flashing	supply and install	coordinate		
	IMP rough opening - sealing and flashing	supply and install	coordinate		
	IMP opening - sealing at aluminum framed glazing		supply and install		
	IMP opening - sealing at sectional doors		supply and install		
	IMP opening - sealing at hollow metal doors		supply and install		
	Roof hatch with integral curb and sealing	install	Supply and coordinate		
	IMP roof penetrations for services	provide opening	supply and install		
	IMP roof penetrations - sealing	supply and install	coordinate		
	IMP wall penetrations for services	provide opening	supply and install		
	IMP wall penetrations - sealing	supply and install	coordinate		
	fabricated gutters and downspouts	supply and install	coordinate		
	mineral wool batt insulation		supply and install		
	mineral wool rigid insulation		supply and install		
	Entrance canopy roofing and cladding	coordinate	supply and install		
Div 08	Openings		supply and install		
Div 09	Finishes		supply and install		
Div 10	Specialties		supply and install		
Div 11	Equipment		supply and install		
Div 12	Furnishings		supply and install		
Div 20	General Mechanical		supply and install		
Div 21	Fire Suppression		supply and install		
Div 22	Plumbing		supply and install		
Div 23	HVAC		supply and install		
	roof curbs for mechanical equipment	install	Supply and coordinate		
Div 25	Integrated Automation		supply and install		
Div 26	General Electrical		supply and install		
	transformer - refer to Electrical documents		coordinate	supply	install: Alectra Utilities
Div 27	Communications		supply and install		
Div 28	Electronic Security and Safety		supply and install		
Div 31	Earthwork				
	excavation and disposal for foundation	supply and install	coordinate		
	backfill and compaction for foundation	supply and install	coordinate		
	Fill, granular and compaction for slab-on-grade	supply and install	coordinate		
Div 32	Exterior Improvements		supply and install		
Div 33	Utilities				
	foundation wall perimeter drainage	supply and install	coordinate		
	sump pit and sand pit excavation and placing	coordinate	supply and install		
	site servicing		supply and install		



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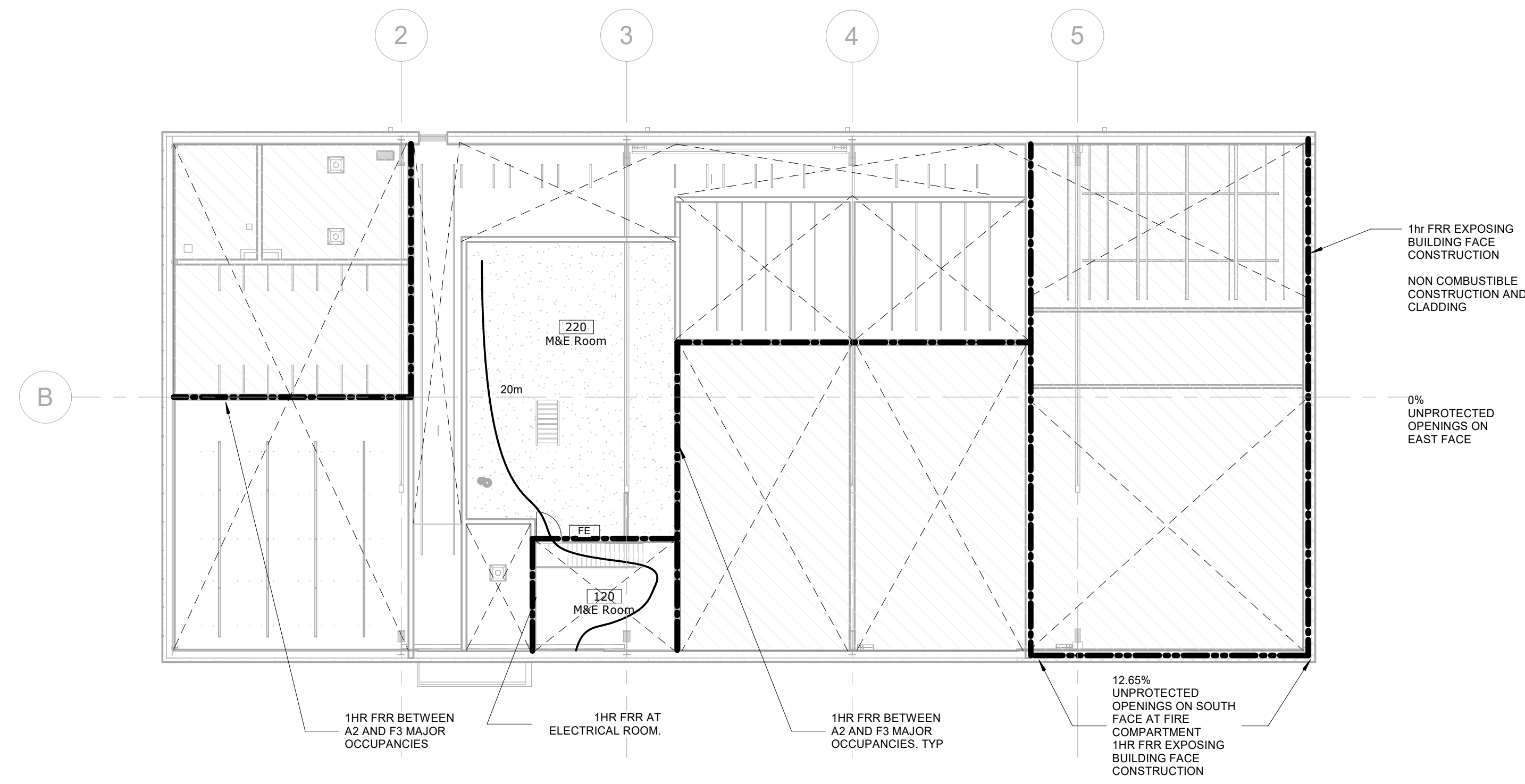
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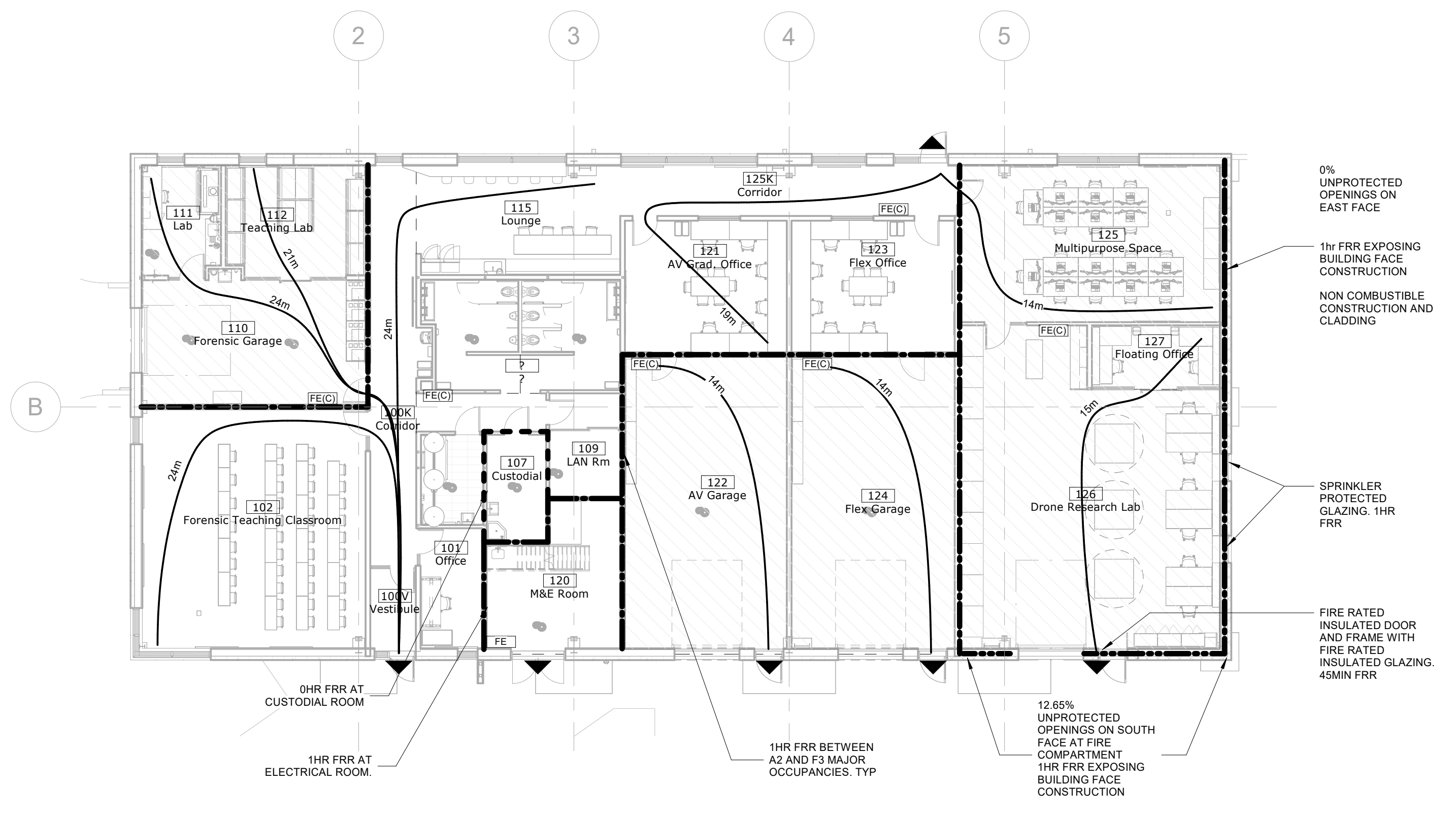
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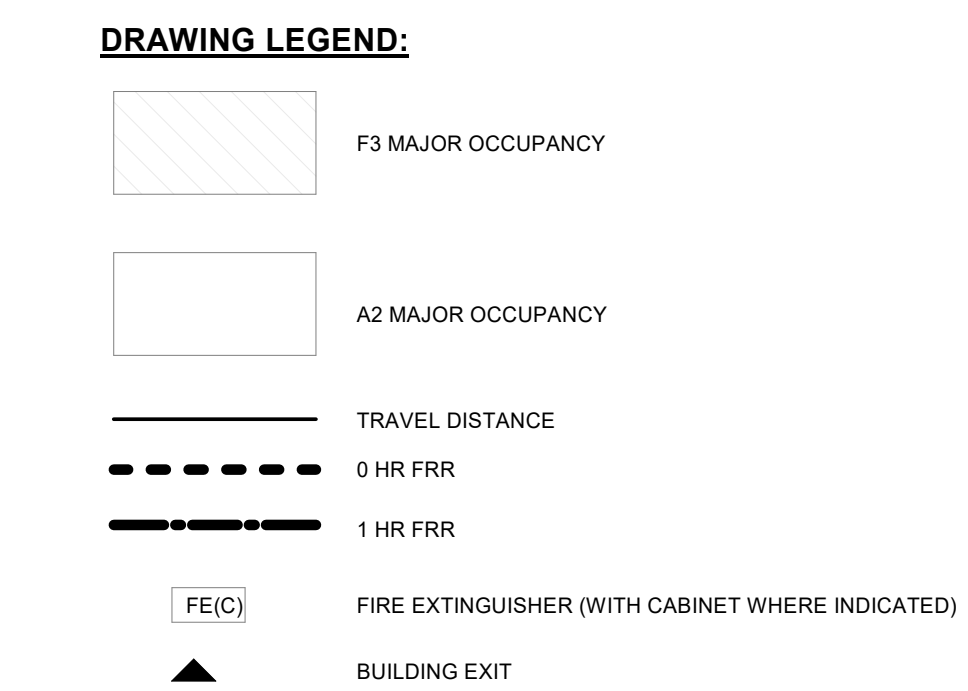
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DATE: 03/28/2024	A001
PROJECT NO: 2301	
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2 LEVEL 2 - LIFE SAFETY AND EGRESS
A002 Scale: 1 : 150



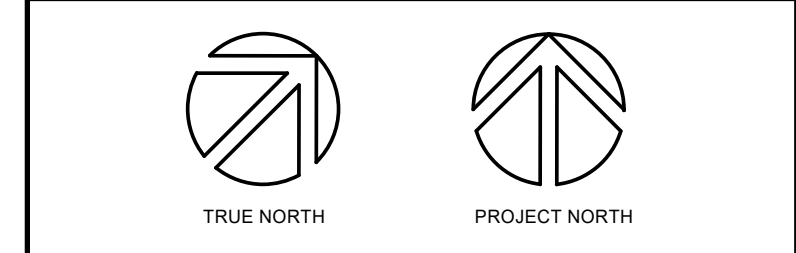
1 LEVEL 1 - LIFE SAFETY AND EGRESS
A002 Scale: 1 : 150



Building Occupant Load Calculation

Room	Area (sm)	sm/person	Occupancy	Basis
100V Vestibule	6.27	-	-	T3.1.17.1
100K Corridor	37.31	-	-	"
125K Corridor	26.81	-	-	"
115 Lounge	34.12	1.85	19	"
102 Teaching Classroom	82.25	1.85	45	"
110 Forensics Garage (school shop)	43.29	4.6	5	"
111 Lab	13.27	4.6	3	"
112 Teaching Lab	24.05	4.6	10 (actual)	"
101 Office	11.62	9.3	2 (actual)	"
105 Univ. WC	8.65	-	-	"
107 Custodial	9.65	-	-	"
109 LAN	11.23	-	-	"
120 Mech / Elec	26.07	46	1	"
106 + 108 Washrooms	31.57	-	-	"
121 AV Grad Support (lab)	32.75	4.6	8	"
122 AV Garage (lab)	72.75	4.6	16	"
123 Flex Support (lab)	32.75	4.6	8	"
124 Flex Garage (lab)	72.75	4.6	16	"
125 MP Space (classroom)	61.62	1.85	34	"
127 Floating Office	11.94	9.3	2 (actual)	"
126 Drone Research Lab	114.26	4.6	24	"
220 Mech / Elec	82.67	46	2	"
Total			203	

Item	Ontario 2012 Building Code Data Matrix Part 3	OBC Reference (Part 6 u.n.o)
1	Project Description: New single storey research lab and classroom building. Major Occupancies: A2 (classroom and research offices) F3 (teaching and research labs / storage garage) 1hr FRR separation between areas of A2 and F3 occupancies	Part 3 1.1.2. (A) 3.1.2.1.(2)
2	Building Area (sm) Existing: 0 New: 857 (sm) Total: 857 sm	1.4.1.2. (A)
3	Gross Area Existing: 0 New: 944 (sm) Total: 944 sm	1.4.1.2. (A)
4	Number of Storeys Above grade: 2 Below grade: 0	1.4.1.2. (A) & 3.2.1.1.
5	Building Height (m) 6.2m	3.2.2.10. & 3.2.5.
6	Number of Streets/Fire Fighter Access - 2	3.2.2.25
7	Building Classification - 3.2.2.25 (A2) Building contains multiple major occupancies of A2 and F3. Requirements for most restrictive major occupancy shall apply.	3.2.2.25 3.2.2.78 (3.2.2.6)
8	Sprinkler System Proposed Sprinkler system is not required per building classification. Sprinkler system proposed. Roof is not rated and combustible. Sprinkler system proposed in lieu of roof rating required by 3.2.2.25 as permitted by 3.2.2.17.	3.2.2.25 3.2.2.78 3.2.2.17
9	Standpipe required Yes No Fire Alarm required Yes No Water Service/Supply is Adequate Yes No	3.2.9. 3.2.4. 3.2.5.7 (1),(2)
10	High Building Yes No	3.2.6
11	Construction Restrictions Actual Construction Combustible permitted Non-combustible req'd Both Combustible Non-combustible Both	3.2.2.25. 3.2.2.78
12	Importance Category Low High Normal Minor storage building Explosive or hazardous substances Post-disaster	4.1.2.1.(3) & T4.1.2.1.B
13	Seismic Hazard Index (IE Fa Sa (0.2)) = 0.219 Seismic design required for Table 4.1.8.18. Items 6 to 21: ((IE Fa Sa (0.2)) ≥ 0.35 or Post-disaster) Yes No	4.1.2.1.(3) 4.1.8.18.(1)
14	Occupant load based on sm/person design of building Total occupant load: 203 people Refer to Building Occupant Load Calculation Table	3.1.17. 11.4.2.2 T3.1.17.1
15	Barrier-free Design Yes No (Explain) Hazardous Substances Yes No	3.8. 3.3.1.2. & 3.3.1.19.
16	Required Fire Resistance Rating (FRR) Horizontal Assemblies FRR (Hours) Floor / ceiling at electrical room, 1hr. Roof 45min Vertical Assemblies FRR (Hours) A2 / F3 separation between teaching spaces and laboratory or storage garage spaces, 1hr. Electrical room, 1hr. Custodial room, 0hr. Fire compartmentalization (for limiting distance calculations), 1hr. Exterior wall construction (east and part south), 1hr.	3.2.2.25 3.2.2.78 3.2.2.25 3.6.2.1 3.2.2.25, 3.2.2.17 3.1.3.1 3.6.2.1 3.3.1.20 3.2.3.2 3.2.3.7
17	Spatial Separation, Construction of Exterior Walls Building Face EBF area (sm) Area of Unprotected Openings Proposed (%) Area of Unprotected Openings Permitted (%) Limiting Distance (m) Available Construction of Exposing Building Face North 235.4 24.2% (57.0sm) 100% >9m available No rating East 116.70 0% 0% 0m available 1hr FRR Non-Combustible Construction Non-Combustible Cladding. Fire rated, non combustible IMP provided Sprinkler protected glazing.	3.2.3.1, T3.2.3.10 T3.2.3.18 3.2.3.7 T3.2.3.7
18	Analysis of spatial separation for east face at fire compartment facing adjacent building: Existing facing building is F3 laboratory (Paleomagnetism lab) Exposing fire compartment in existing building has EBF of 67sm, and UPO of 28sm (42%) LD required for existing building is 6.3m (T3.2.3.1.B, extrapolated) Distance between new and existing buildings is 6.3m 0m LD for new building = 0% permitted UPO (T3.2.3.1.D)	
19	South 1 202.15 25.28% (51.11sm) 100% >9m available No rating South 2 68.64 12.65% (8.68sm) 16% 1.5m available 1hr FRR Non-Combustible Construction Non-Combustible Cladding. Fire rated, non combustible IMP provided	3.2.3.1, T3.2.3.10 3.2.3.18 3.2.3.7
20	Analysis of spatial separation for south face at fire compartment facing adjacent building: Proposed building is separated into fire compartments for application of spatial separation calculations (3.2.3.2) Existing facing building is F3 storage garage (Grounds building) Exposing fire compartment in existing building has EBF of 6144sm, and UPO of 97sm (67.5%) LD required for existing building is 11m (T3.2.3.1.B) Distance between new and existing buildings is 12.6m 1.6m available LD for new building at fire compartment 2 = 16% permitted UPO (T3.2.3.1.D)	
21	West 116.70 15.5% (17.39sm) 100% >9m available 45m FRR Plumbing Fixture Requirements Total building occupant load (calculated), 203 people 102 male / 102 female Required fixtures: 1 male, 2 female. 1 fixture for each 75 females. 1 fixture for each 100 males. Fixtures provided: 3 male, 3 female + 1 universal = 4 male, 4 female effective.	3.7.4.3 (15) 3.7.4.2 (7)
22	Egress and Exiting Building is sprinklered. Rooms within suite are F3 and A2 occupancy. Each room requires one means of egress based on room area (under 200m for A2, under 300m for F3). Travel distance to exit > 45m from all areas.	3.3.1.5, T3.3.1.5(B) 3.4.2.5
23	Energy Efficiency Energy Cost Budget Method. National Energy Code of Canada for Buildings 2015, as modified by OBC SB-10 Chapter 3. Refer to NECB Compliance Workbook and Energy Modelling Report.	SB-10



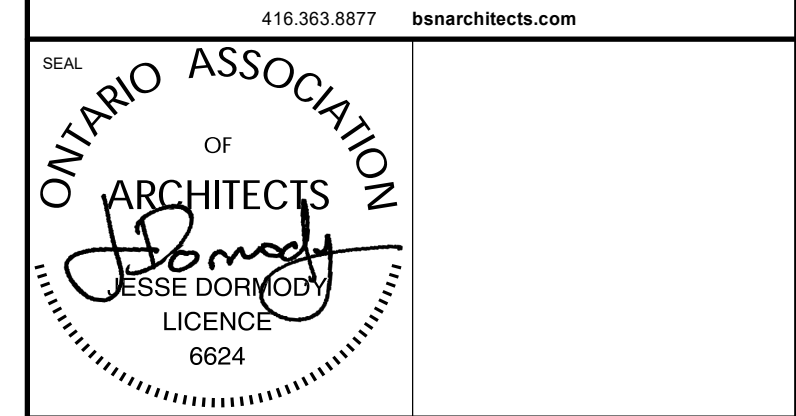
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TITLE
LIFE SAFETY AND CODE MATRIX

architects
Baird Sampson Neuert



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SCALE: 1 : 150	SHEET NO: A002
DATE: 06/16/20	
PROJECT NO: 2301	
DRAWN BY: Author	
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ROOM FINISH SCHEDULE											
Room Number	Room Name	Area	Floors				Walls				SIGNAGE REQUIREMENTS - REFER TO SIGNAGE PACKAGE
			Floor Finish	Base Finish	North	East	South	West	Ceiling Finish		
100K	Corridor	29 m²	FF-1	WB-1	PTD	PTD	PTD	PTD	EXP		
100V	Vestibule	6 m²	FF-4	WB-1	PTD	PTD	n/a	PTD	C3		
101	Office	11 m²	FF-3	WB-1	PTD	PTD	PTD	PTD	C1	SIGNAGE: NAME PLATE AND ROOM NUMBER	
102	Forensic Teaching Classroom	81 m²	FF-3	WB-1	PTD	PTD	PTD	PTD	C2	SIGNAGE: NAME PLATE AND ROOM NUMBER (WHOLDER FOR ROOM SCHEDULE)	
105K	Corridor	8 m²	FF-1	WB-1	PTD	PTD	PTD	n/a	C1	SIGNAGE: MAIN DIRECTORY	
106	Men's Washroom	15 m²	FF-2	WB-2	WF1	WF1	PTD	WF1	C1	SIGNAGE: NAME PLATE AND ROOM NUMBER	
107	Custodial	10 m²	FF-5	WB-3	PTD	PTD	PTD	PTD	EXP	SIGNAGE: NAME PLATE AND ROOM NUMBER	
108	Women's Washroom	16 m²	FF-2	WB-2	WF1	WF1	WF1	WF1	C1	SIGNAGE: NAME PLATE AND ROOM NUMBER	
109	LAN Rm	11 m²	FF-7	WB-1	PTD	PTD	PTD	PTD	EXP	SIGNAGE: NAME PLATE AND ROOM NUMBER	
110	Forensic Garage	44 m²	FF-5	WB-3	PTD	PTD	WF2	PTD	EXP	SIGNAGE: NAME PLATE AND ROOM NUMBER	
111	Lab	13 m²	FF-5	WB-3	PTD	PTD	PTD	PTD	C1	SIGNAGE: NAME PLATE AND ROOM NUMBER	
112	Teaching Lab	24 m²	FF-5	WB-3	PTD	PTD	PTD	PTD	C1	SIGNAGE: NAME PLATE AND ROOM NUMBER	
115	Lounge	34 m²	FF-1	WB-1	PTD	PTD	PTD	PTD	EXP / C1	SIGNAGE: NAME PLATE AND ROOM NUMBER	
120	M&E Room	26 m²	FF-6	WB-1	PTD	PTD	PTD	PTD	EXP		
121	AV Grad. Office	33 m²	FF-1	WB-1	PTD	PTD	PTD	PTD	EXP	SIGNAGE: NAME PLATE AND ROOM NUMBER	
122	AV Garage	72 m²	FF-5	WB-1	PTD	PTD	PTD	PTD	EXP	SIGNAGE: NAME PLATE AND ROOM NUMBER	
123	Flex Office	33 m²	FF-1	WB-1	PTD	PTD	PTD	PTD	EXP	SIGNAGE: NAME PLATE AND ROOM NUMBER	
124	Flex Garage	73 m²	FF-5	WB-3	PTD	PTD	PTD	PTD	EXP	SIGNAGE: NAME PLATE AND ROOM NUMBER	
125	Multipurpose Space	62 m²	FF-1	WB-1	PTD	PTD	PTD	PTD	C2	SIGNAGE: NAME PLATE AND ROOM NUMBER	
125K	Corridor	26 m²	FF-1	WB-1	PTD	PTD	PTD	PTD	EXP		
126	Drone Research Lab	116 m²	FF-1	WB-1	PTD	PTD	PTD	PTD	EXP	SIGNAGE: NAME PLATE AND ROOM NUMBER	
127	Floating Office	12 m²	FF-1	WB-1	PTD	PTD	PTD	PTD	C1	SIGNAGE: NAME PLATE	
220	M&E Room	63 m²	FF-6	WB-1	PTD	PTD	PTD	PTD	EXP		

GENERAL NOTE: REFER TO INTERIOR ELEVATIONS FOR EXTENT OF WALL TILE FINISH

FLOOR FINISHES

- FF1 POLISHED CONCRETE FINISH
- FF2 PORCELAIN TILE
- FF3 RESILIENT SHEET FLOORING
- FF4 RESILIENT LOW PROFILE ENTRANCE MATTING
- FF5 EPOXY FLOOR COATING
- FF6 TROWELED SEALED CONCRETE SLAB
- FF7 ANTI STATIC VINYL FLOOR TILE

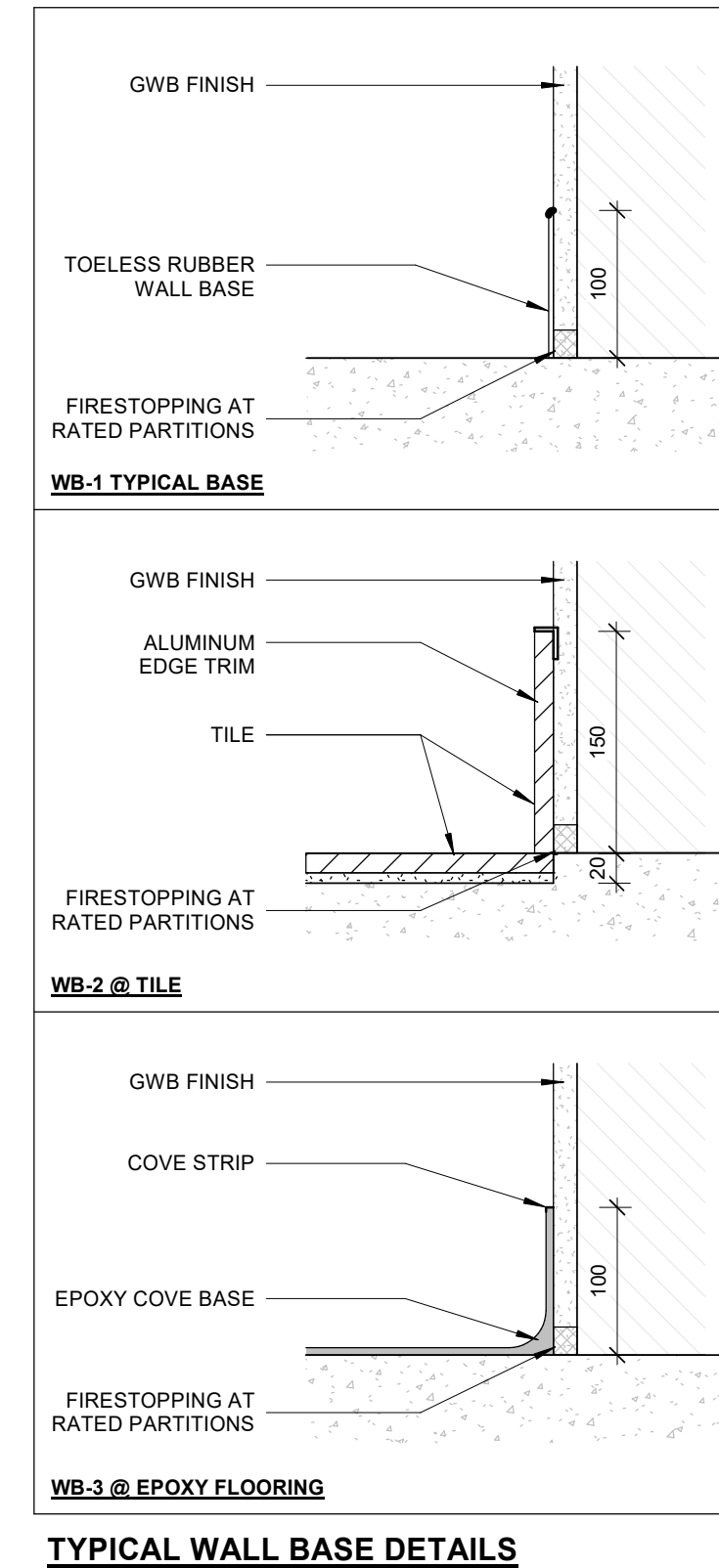
COORDINATE TOP OF SLAB TO ACHIEVE FLUSH SURFACE BETWEEN ADJACENT FLOOR FINISHES.

WALL FINISHES

- WF1 8MM PORCELAIN WALL TILE - FULL HEIGHT TO CEILING UNLESS NOTED OTHERWISE
- WF2 FIBREGLASS REINFORCED WALL PANEL

PAINT FINISHES

- ALL PAINTABLE SURFACES PAINTED PT1 (WHITE) UNLESS NOTED OTHERWISE
- PT1 WHITE
 - PT2 FEATURE COLOUR - ORANGE / RED
 - PT3 FEATURE COLOUR - DARK BLUE
 - PT4 MEDIUM GREY
 - PT5 DARK / CHARCOAL GREY

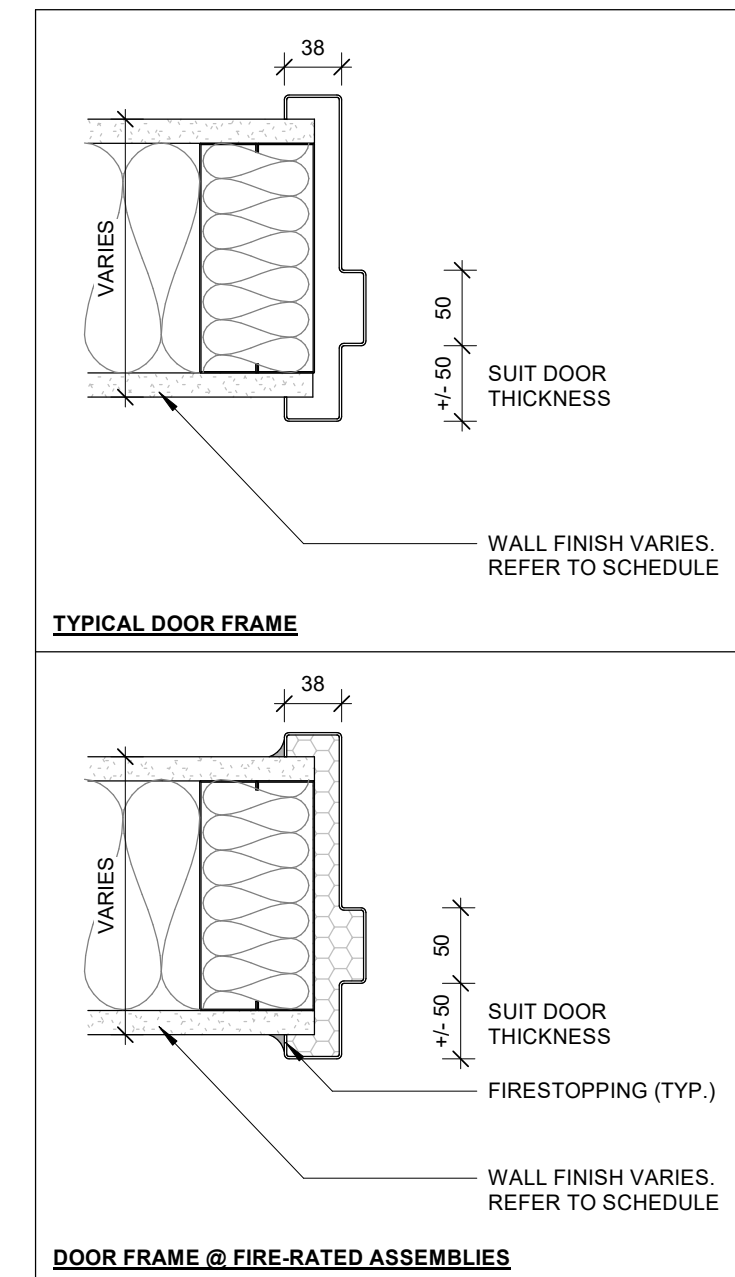


TYPICAL WALL BASE DETAILS

DOOR & SCREEN SCHEDULE

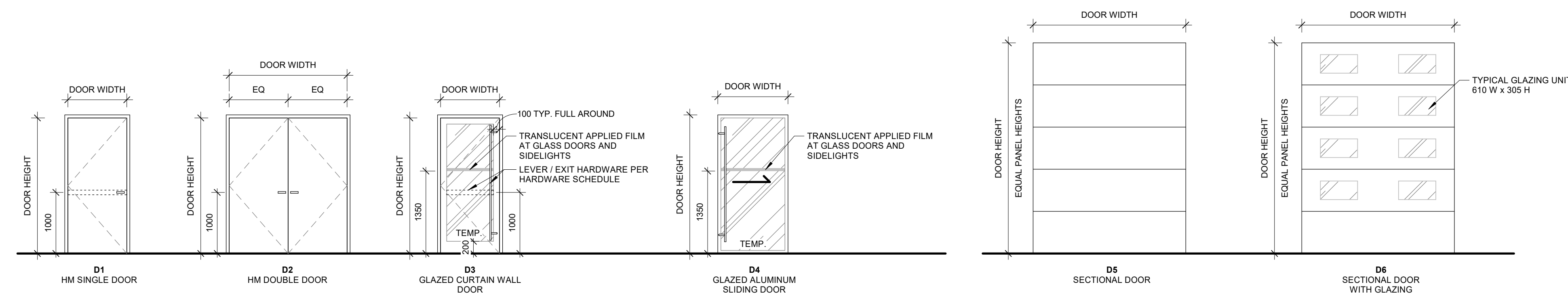
Door Mark	Location	Width	Height	Door Type / Elev	Material	Finish	Glazing	Frame Material	Frame Finish	Hardware Schedule Set *	Fire Rating	Insulated / Thermal Break	Notes
GROUND FLOOR													
100V	Vestibule	965	2240	D3	AL	PTD	GL1A	AL	PTD	9.0		No	
101	Office	965	2240	D1	HM	PTD		HM	PTD	11.0		No	
102	Forensic Teaching Classroom	960	2229	D1	HM	PTD		HM	PTD	10.0		No	
105		965	2132	D1	HM	PTD		HM	PTD	17.0		No	
107	Custodial	965	2132	D1	HM	PTD		HM	PTD	15.0	0 hr	No	
109	LAN Rm	965	2132	D1	HM	PTD		HM	PTD	11.0		No	
110	Forensic Garage	965	2232	D1	HM	PTD		HM	PTD	12.0	3/4 hr	No	
111	Lab	965	2228	D1	HM	PTD		HM	PTD	13.0		No	
112	Teaching Lab	1155	2270	D4	AL	PTD	GL4	AL	PTD	2.0		No	ADD BLACKOUT FILM
121	AV Grad. Office	965	2220	D3	HM	PTD	GL4	HM	PTD	11.0		No	
122	AV Garage	965	2228	D1	HM	PTD		HM	PTD	14.0	3/4 hr	No	
123	Flex Office	965	2220	D3	HM	PTD	GL4	HM	PTD	11.0		No	
124	Flex Garage	965	2228	D1	HM	PTD		HM	PTD	14.0	3/4 hr	No	
125	Multipurpose Space	965	2240	D1	HM	PTD	GL5	HM	PTD	10.0	3/4 hr	No	
126	Drone Research Lab	965	2225	D3	HM	PTD	GL4	HM	PTD	8.0		No	
127	Floating Office	1620	2270	D4	AL	PTD	GL4	AL	PTD	2.0		No	
E100V	Vestibule	965	2240	D3	AL	PTD	GL1A	AL	PTD	3.0		Yes	
E110	Forensic Garage	2540	3450	D5	STL	PTD		STL	PTD	1.0		Yes	
E120	M&E Room	2006	2240	D2	HM	PTD		HM	PTD	5.0		Yes	
E122	AV Garage	1016	2240	D3	AL	PTD	GL1A	AL	PTD	7.0		Yes	
E122b	AV Garage	2540	3450	D6	STL	PTD	GL1A	STL	PTD	1.0		Yes	
E124	Flex Garage	1016	2240	D3	AL	PTD	GL1A	AL	PTD	7.0		Yes	
E124b	Flex Garage	2540	3450	D6	STL	PTD	GL1A	STL	PTD	1.0		Yes	
E125K	Corridor	1016	2240	D3	AL	PTD	GL1A	AL	PTD	4.0		Yes	
E126	Drone Research Lab	1016	2240	D3	STL	PTD	GL3	STL	PTD	6.0	1 hr	Yes	
E126b	Drone Research Lab	2540	3450	D6	STL	PTD	GL1A	STL	PTD	1.0		Yes	
MEZZ FLOOR													
220	M&E Room	915	2134	D1	HM	PTD	NONE	HM	PTD	16.0	3/4 hr	No	

* REFER TO DOOR HARDWARE SCHEDULE INCLUDED IN THE SPECIFICATIONS



TYPICAL INTERIOR DOOR FRAME DETAILS

DOOR TYPE ELEVATIONS



No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
4	Issued for Design Development Costing	2024-03-28
5	Issued for Permit	2024-11-08
6	Issued for Tender	2024-11-25

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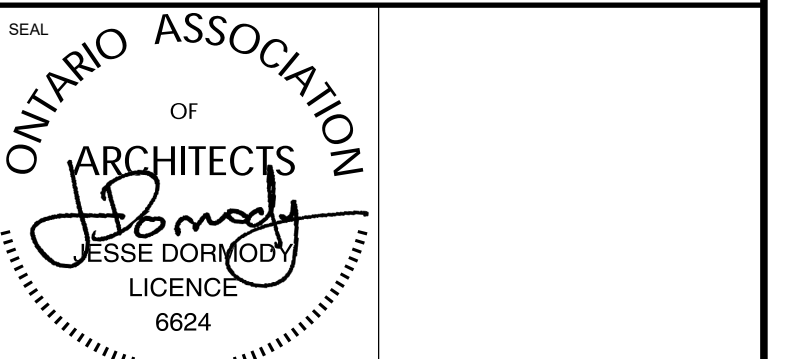
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

SCHEDULES

architects Baird Sampson Neuert

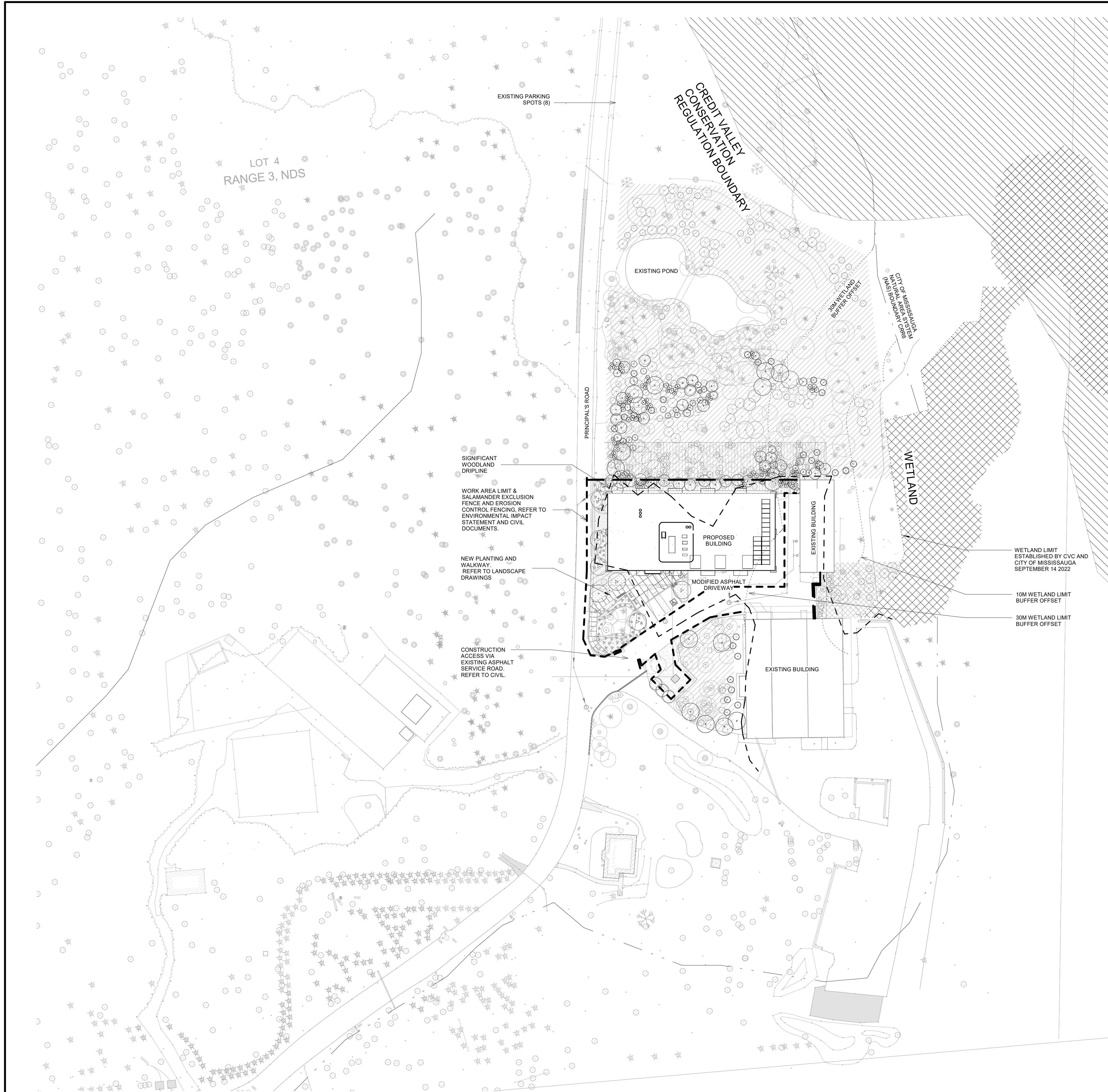
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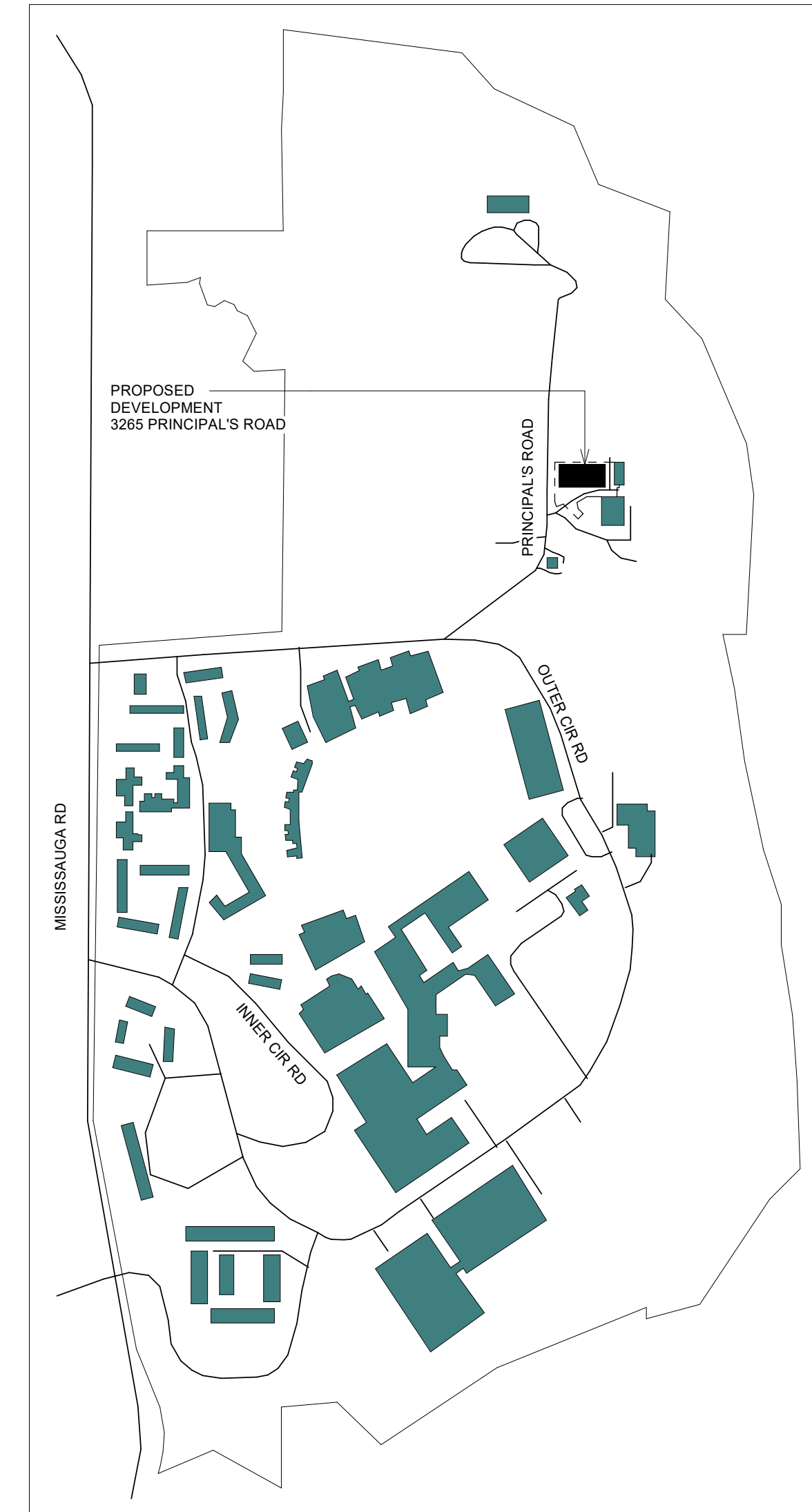
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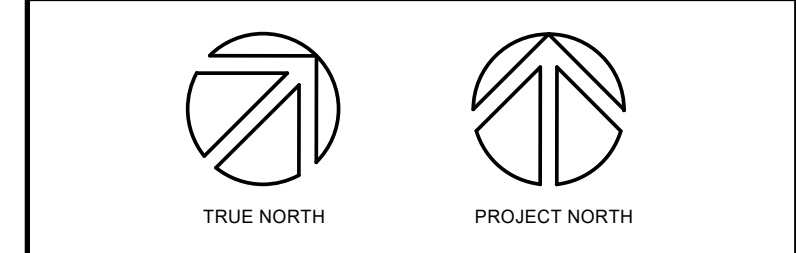
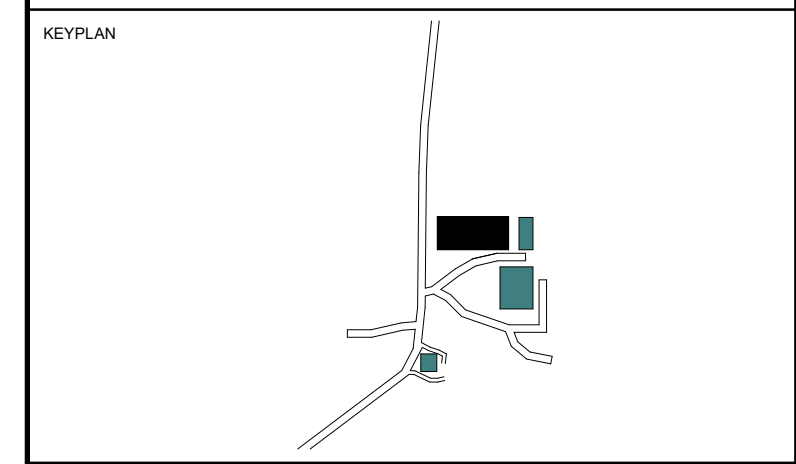


- CONTEXT PLAN LEGEND**
- CREDIT VALLEY CONSERVATION REGULATORY AREA
 - WETLAND AREA
 - WETLAND BUFFER (10m and 30m)
 - WOODLAND DRIPLINE
 - EXISTING
 - BOUNDARY OF PROPOSED WORK



1 100_Context Plan
A100 Scale: 1:500

2 UTM CAMPUS MAP
A100 Scale: NTS



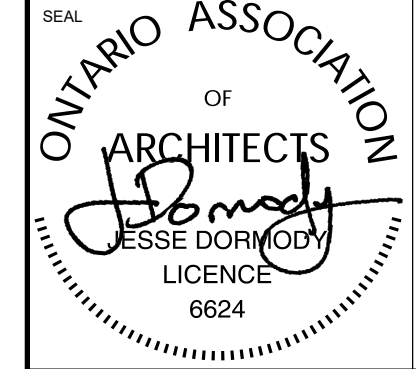
No.	ISSUANCE	DATE
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PROJECT
Pre-Engineered Building
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TITLE
CONTEXT PLAN

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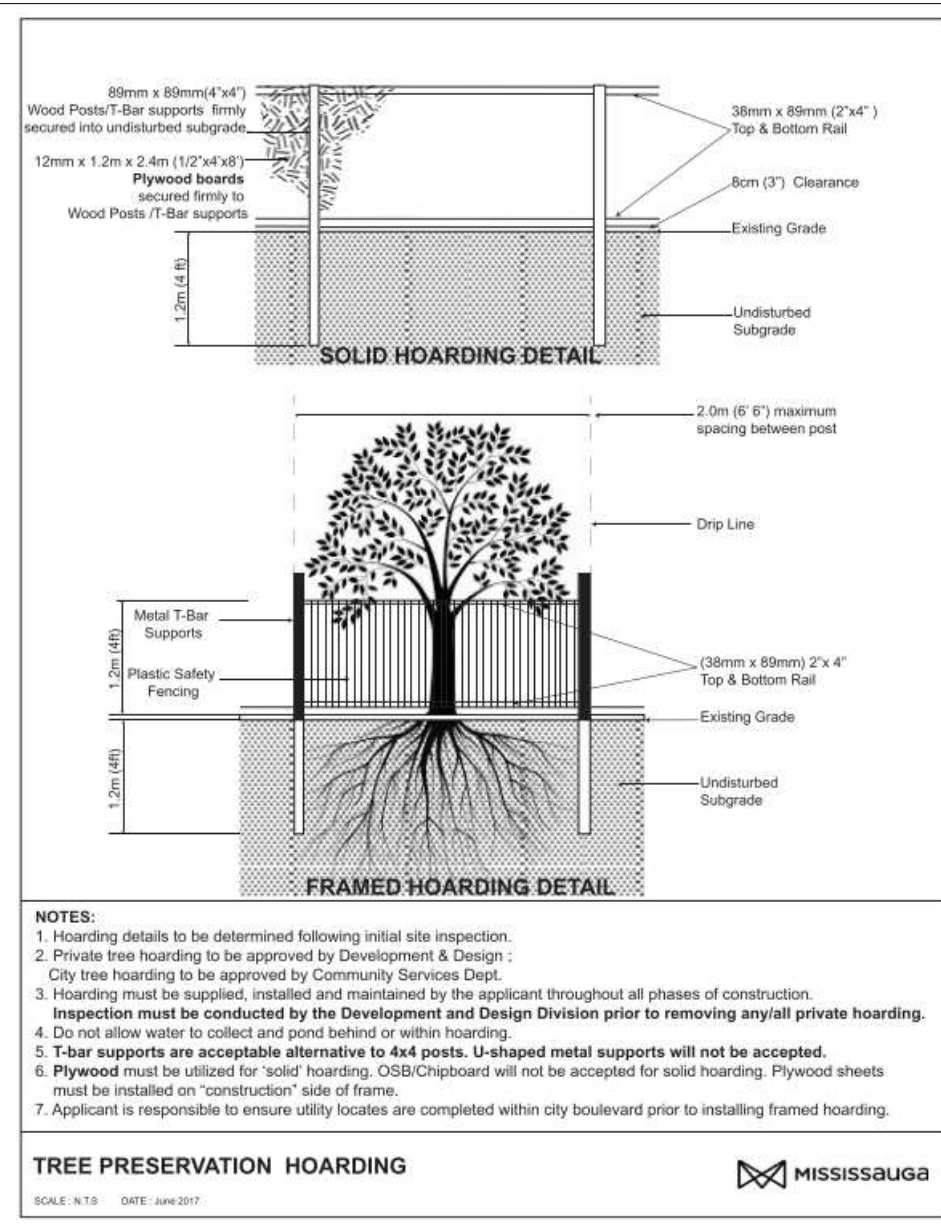
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DATE: 05/24/20	
PROJECT NO: 2301	
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PROJECT INFORMATION AND ZONING ANALYSIS

PROJECT NAME: UTM PRE-ENGINEERED BUILDING
PROJECT ADDRESS: 3265 PRINCIPAL'S ROAD
CITY IDENTIFIER: 11680600 (Z-24)
LEGAL DESCRIPTION: PT LOTS 3, 5 RANGE 1 NDS, LT 4, PT LOTS 3, 5 RANGE 2 NDS, PT LOTS 3, 4 RANGE 3 NDS, PT BLK M PL 550, PT RDAL B7N RANGE 2 & RANGE 3 NDS - 43R31817 PTS 4-6, 43R-16295 PT 1 SP 21-4 W8 (PREVIOUSLY PAM 20-138 W8)
SPA PROJECT NUMBER:

ZONING ANALYSIS - CITY OF MISSISSAUGA BYLAW 0225-2007

ZONE: I-5 (ZONING MAP 24)
PROPOSED USE: INSTITUTIONAL (UNIVERSITY/COLLEGE), AS PERMITTED
CAMPUS LOT AREA: 897,543.66 m²
DEVELOPMENT AREA OF PROPOSED PROJECT: approx. 2260 m²
COVERAGE OF PROPOSED PROJECT: 863 m²
PROPOSED GROSS FLOOR AREA: Total: 779m²
 Basement: N/A
 Ground floor: 859m² - 38m² - 42m² = 779m² (ground floor - washrooms - Mechanical & Electrical)
 Mechanical mezzanine: 85m² (Not included in GFA)
FLOOR SPACE INDEX: 779m² proposed + 274,884m² existing / 897,543.66m² lot area = 0.307:1
PERMITTED GROSS FLOOR AREA: N/A
PROPOSED BUILDING HEIGHT: 6.20m TOP OF ROOF
 7.80m TOP OF MECHANICAL EQUIPMENT ENCLOSURE
FRONT YARD SETBACK: MEASURED FROM BUILDING TO EDGE OF PRIVATE ROAD
 MIN REQUIRED: 7.50m (N/A - INTERNAL ROADS WITHIN SINGLE CONSOLIDATED PROPERTY)
 PROPOSED: 4.10m
ROOF EAVES ENCROACHMENT: PERMITTED: 0.45m
 PROPOSED: 0.00m (PROPOSED ROOF EDGE 4.10m FROM LOT BOUNDARY AT ROAD)
LANDSCAPED BUFFER: MIN REQUIRED: 4.50m (N/A - INTERNAL LOT BOUNDARY AT ROAD WITHIN SINGLE CONSOLIDATED PROPERTY)
 PROPOSED: 4.10m
PARKING: REQUIRED SPACES: 1.1 SPACE FOR 100m² GFA. 779m²/100m² x 1.1 = 8.57 = 9 SPACES REQUIRED
 PROVIDED: 2 + 1 ACCESSIBLE
 EXISTING 104 SURPLUS SPACES ON CAMPUS - LESS 5 SPACES ON EXISTING SITE = 99 SURPLUS SPACES
 99 SPACES - 6 (PROJECT DEFICIT) = 93 SURPLUS REMAINING
BICYCLE PARKING: EXISTING 359 TOTAL BICYCLE PARKING SLOTS
 PROPOSED: 6 ADDITIONAL BICYCLE PARKING SLOTS (NOT REQUIRED NON-RESIDENTIAL USES LESS THAN 1000M² GFA)



TREE PROTECTION NOTE:

The applicant is responsible for ensuring that tree protection hoarding is maintained throughout all phases of demolition and construction in the location and condition as approved by the Planning and Building Department. No materials (building materials, soil, etc.) may be stockpiled within the area of hoarding. Failure to maintain the hoarding as originally approved or the storage of materials within the hoarding will be cause for the Letter of Credit to be held for two years following completion of all site works. Hoarding must be inspected prior to the removal of any tree hoarding from the site.

Owner's Signature: _____
 Date: _____

CURB CUTS AND RAMPS:

If the final course of asphalt paving is delayed, install a temporary lift of asphalt at ramps or curb cuts to provide barrier-free access.

SITE GRADING:

Refer to Site Grading Plan prepared by MTE Consultants, Drawing CZ.1, Revision 4, for the purposes of obtaining site grading information.

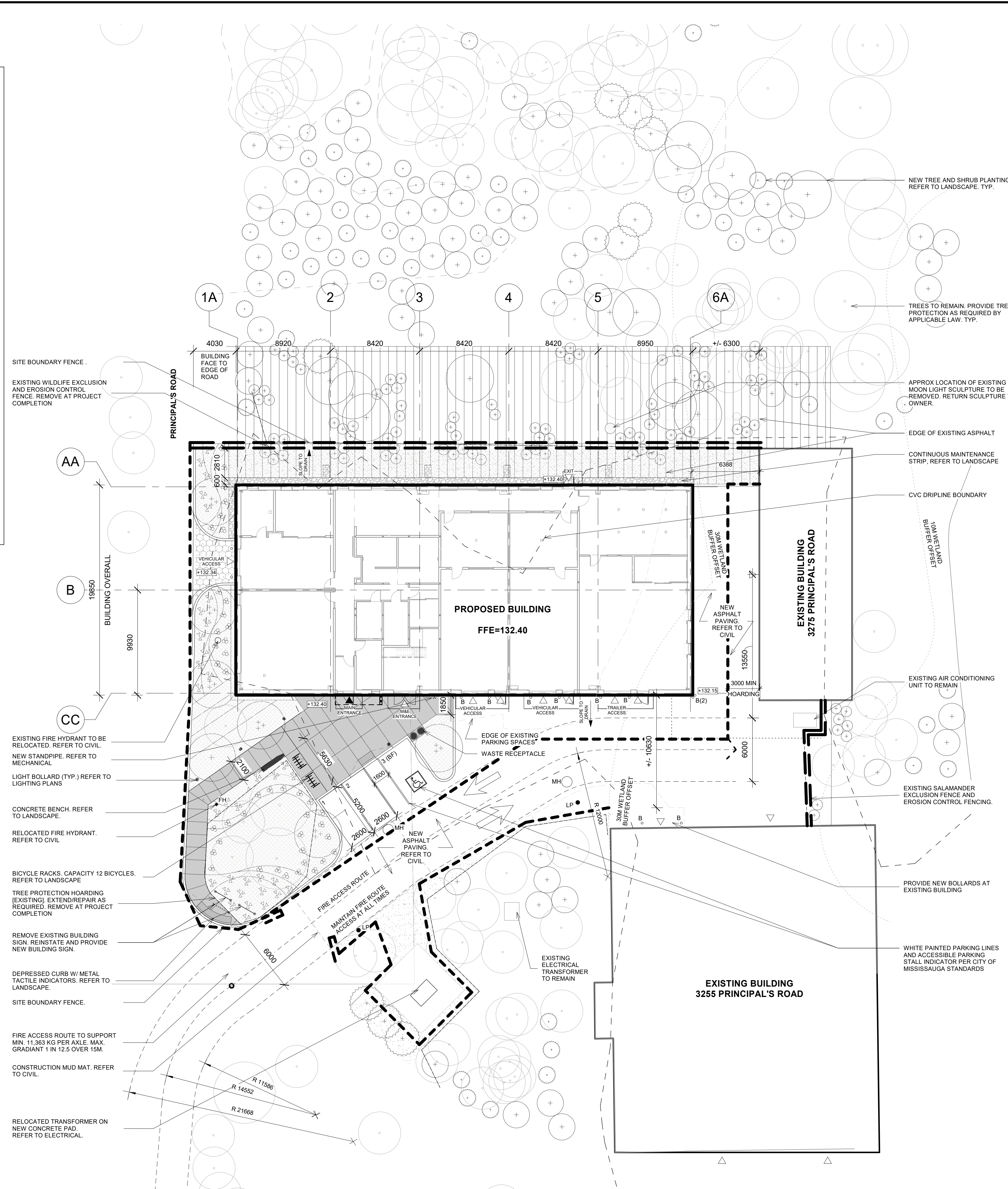
Prior to commencing construction, all required hoarding, in accordance with the Ontario Occupational Health & Safety Act and Regulations for construction projects, must be erected and then maintained throughout all phases of the project.

SITE PLAN LEGEND

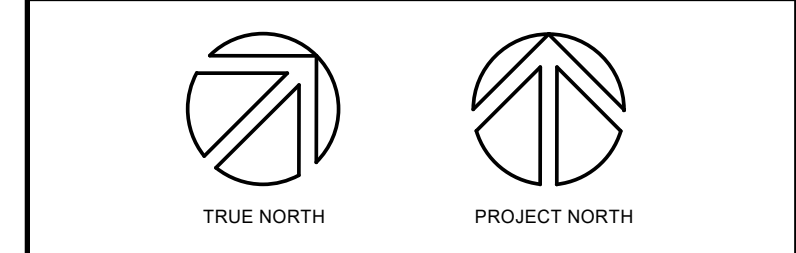
- AREA OF WORK BOUNDARY LINE AND SITE BOUNDARY FENCE. REFER TO LANDSCAPE.
- TREE PROTECTION HOARDING. REFER TO CIVIL.
- CVC DRIPLINE BOUNDARY
- WETLAND BUFFER ZONE
- SALAMANDER EXCLUSION AND EROSION CONTROL FENCING (EXISTING).
- AREA OF PLANTING. REFER TO LANDSCAPE
- WOODLAND BUFFER ZONE
- TURFSTONE PAVING. REFER TO LANDSCAPE
- CONCRETE PAVING. REFER TO LANDSCAPE
- STONE MAINTENANCE STRIP. REFER TO LANDSCAPE
- B CONC. FILLED STEEL BOLLARD
- MH MANHOLE. REFER TO CIVIL.
- FH FIRE HYDRANT. REFER TO CIVIL.
- LP POLE MOUNTED LIGHT FIXTURE.

SITE PLAN NOTES

1. GC TO PROVIDE CONTINUOUS CCTV MONITORING OF SITE THROUGHOUT CONSTRUCTION. REFER TO SECURITY.
2. SAFE ACCESS TO EXISTING ADJACENT BUILDINGS TO BE MAINTAINED THROUGHOUT CONSTRUCTION.



1 SITE PLAN
 A101 Scale: 1 : 200



No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
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7	Issued for Tender	2024-11-25

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PROJECT
 Pre-Engineered Building
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TITLE
 SITE PLAN

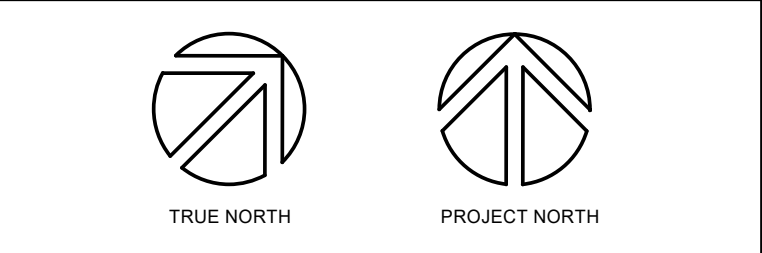
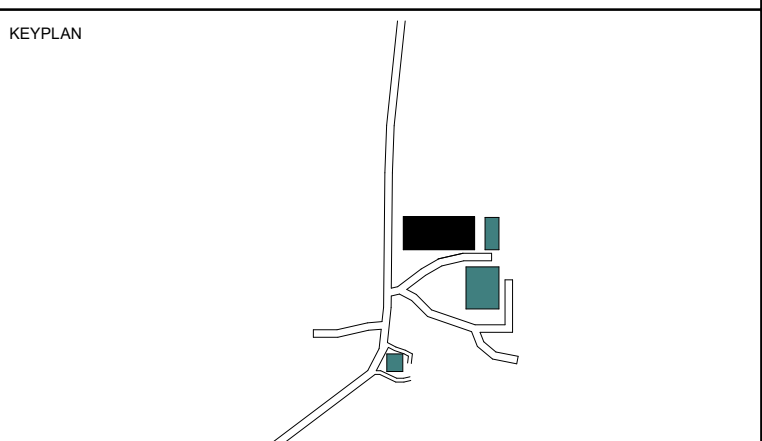
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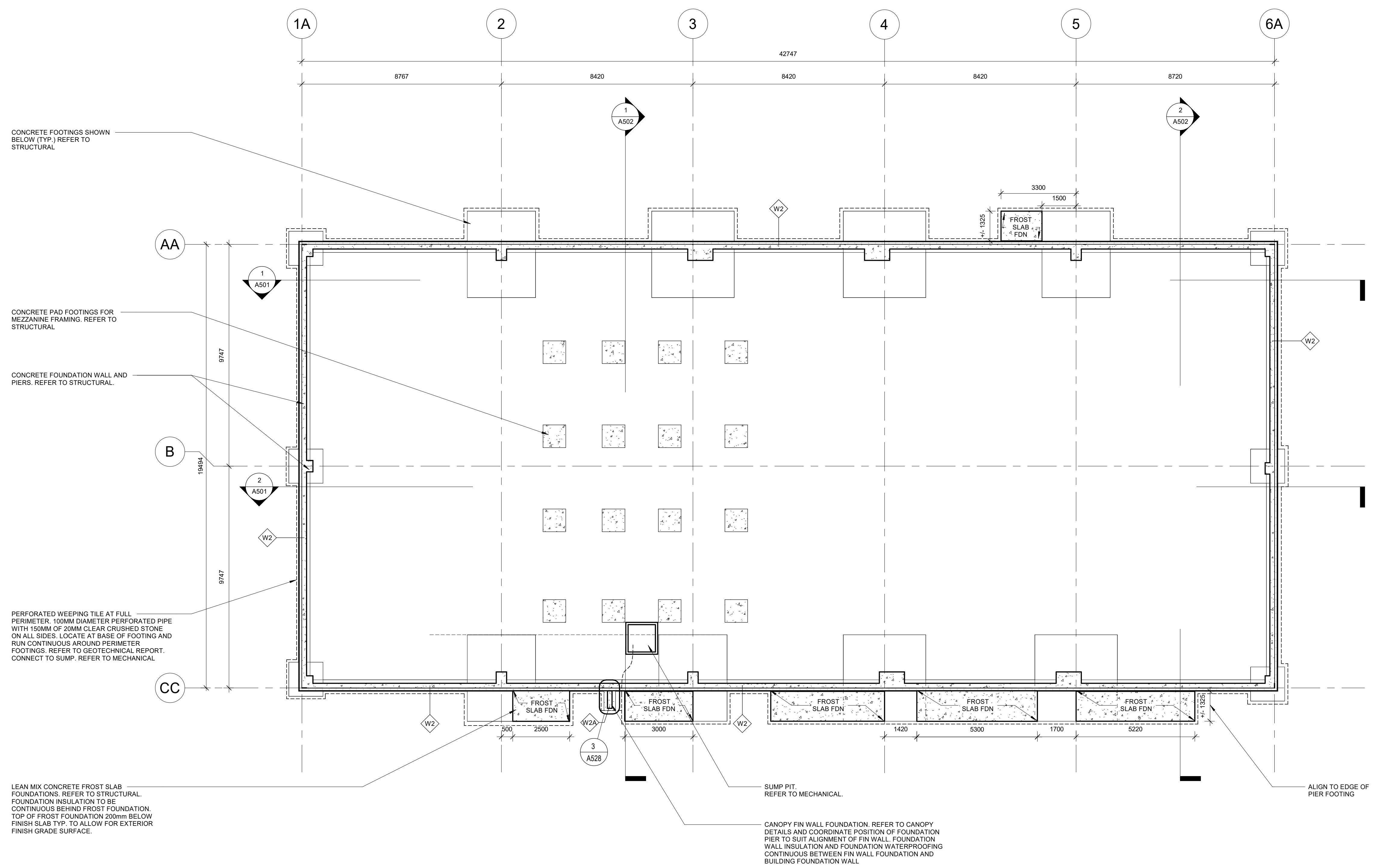
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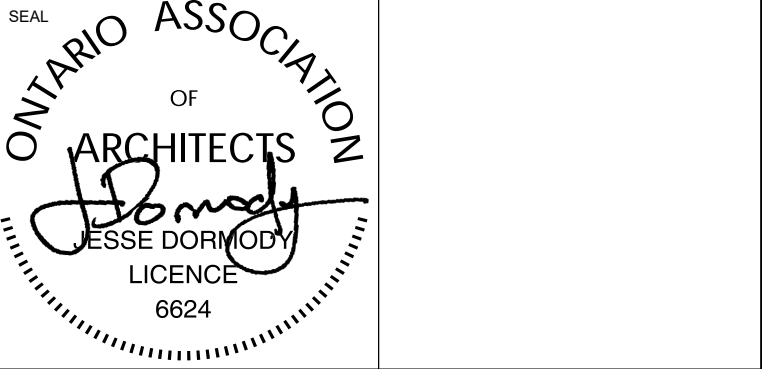


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PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
FOUNDATION PLAN

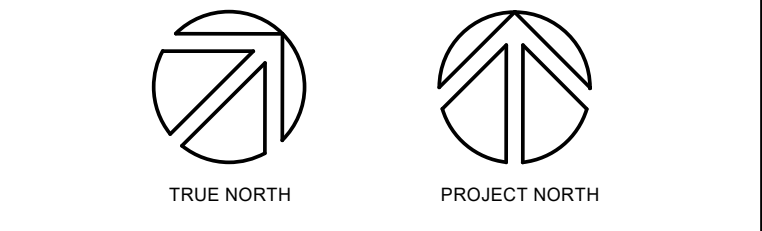
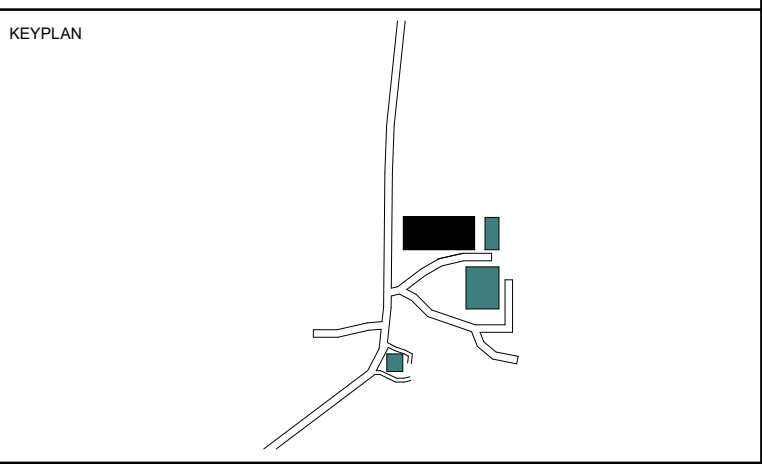
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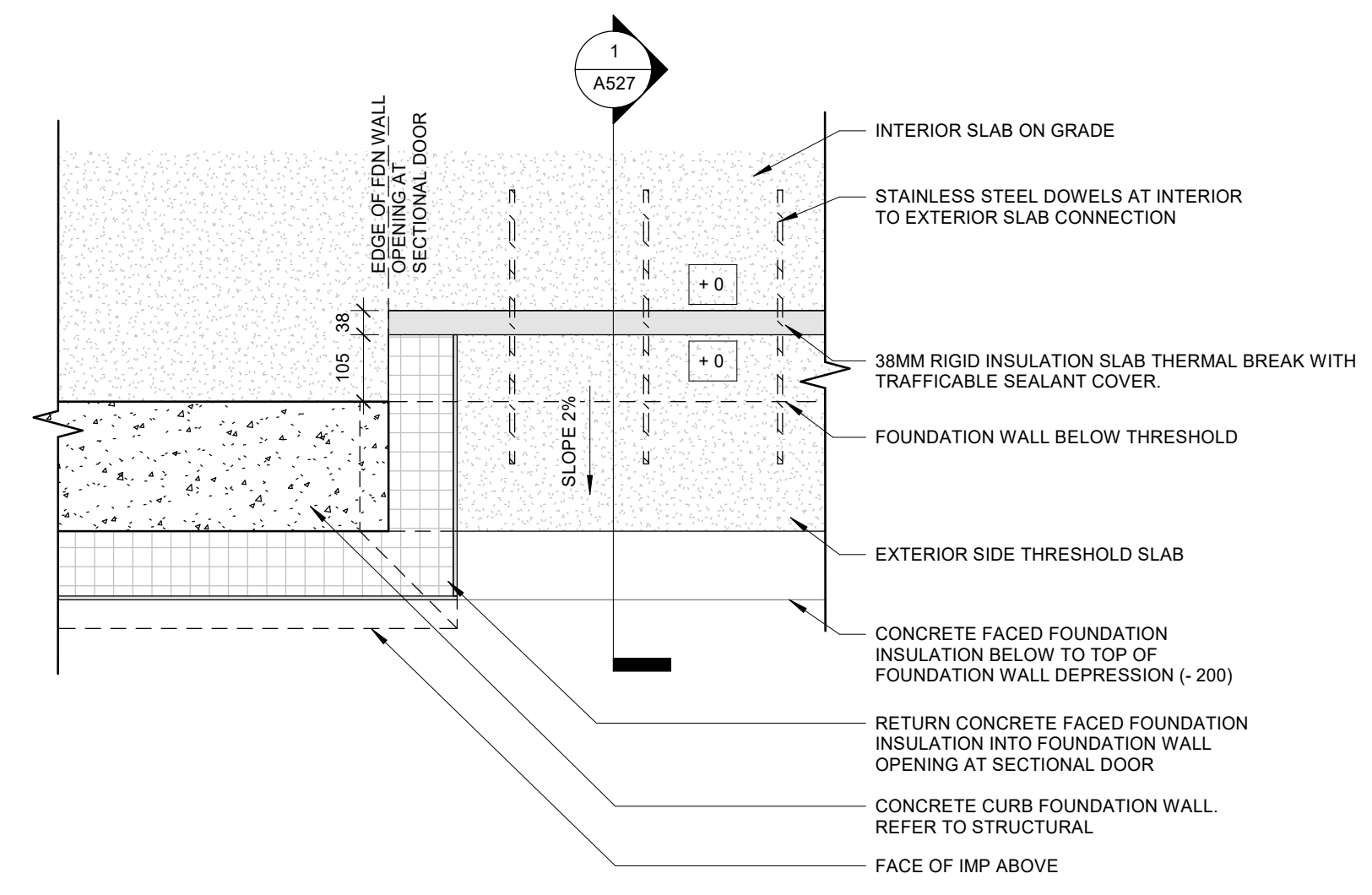
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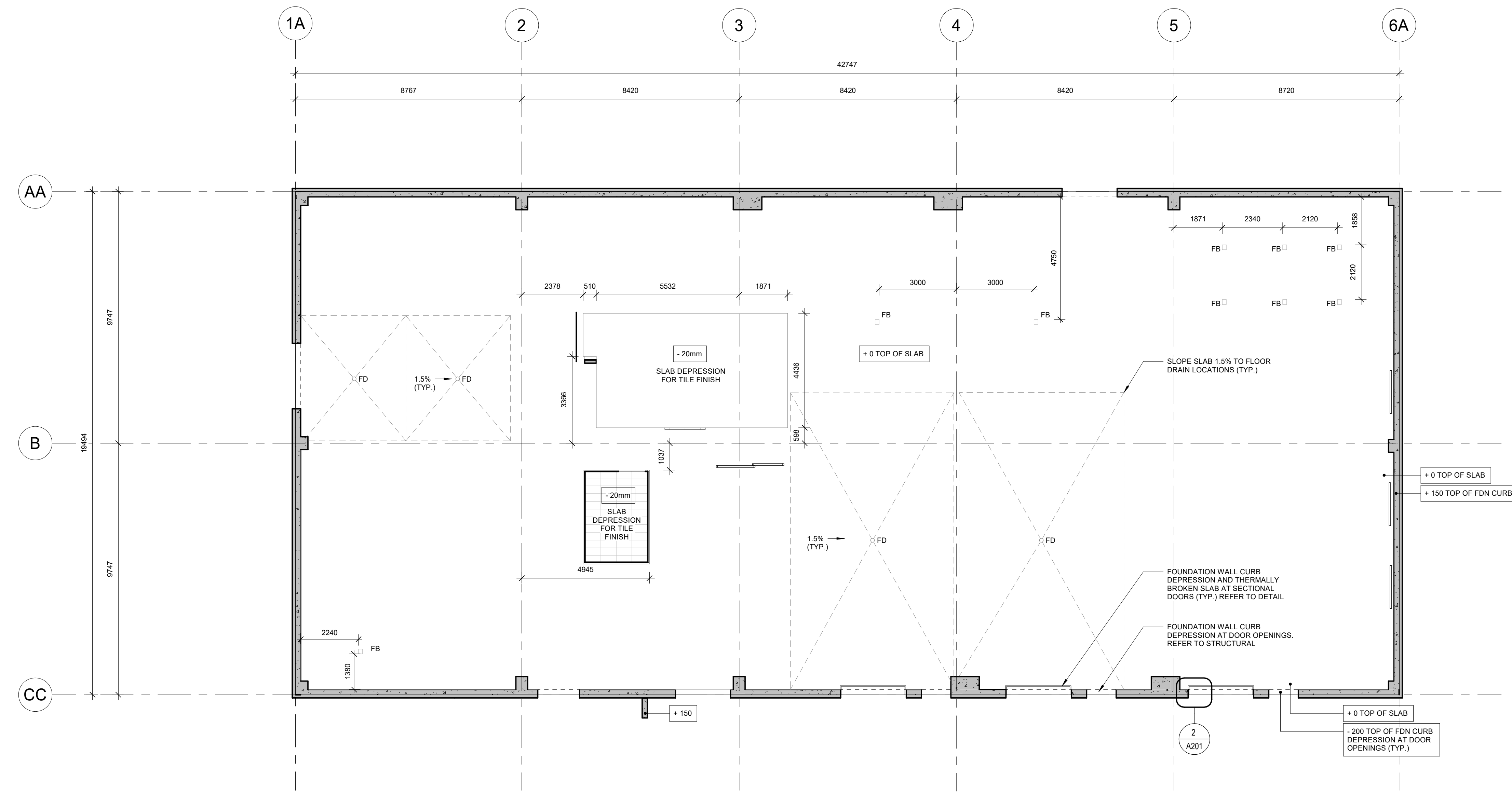
1 FOUNDATION PLAN
A200 Scale: 1 : 100



No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25



2 SLAB EDGE DETAIL AT OVERHEAD DOOR
 A201 Scale: 1 : 10



NOTE: WIDTH AND POSITION OF ALL CURB DEPRESSIONS FOR OPENINGS TO BE COORDINATED AND FINALIZED WITH CONSULTANT PRIOR TO PLACING CONCRETE

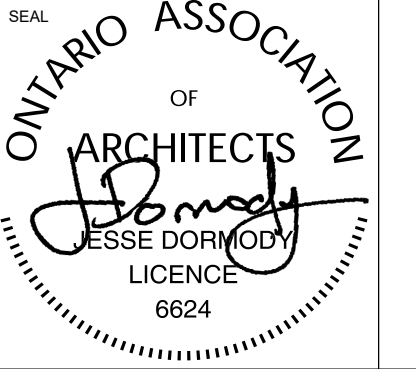
1 SLAB EDGE PLAN
 A201 Scale: 1 : 100

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Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

TITLE
SLAB EDGE PLAN

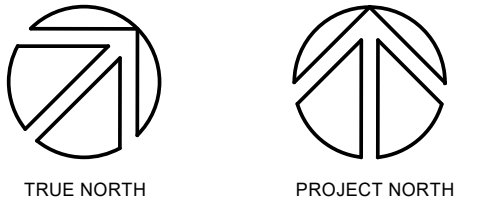
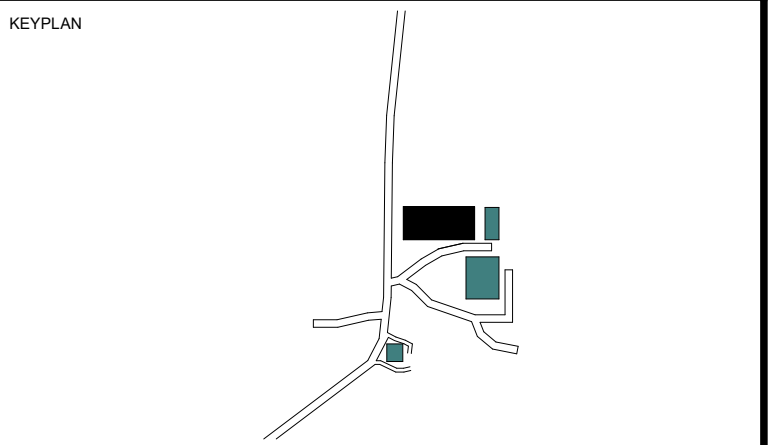
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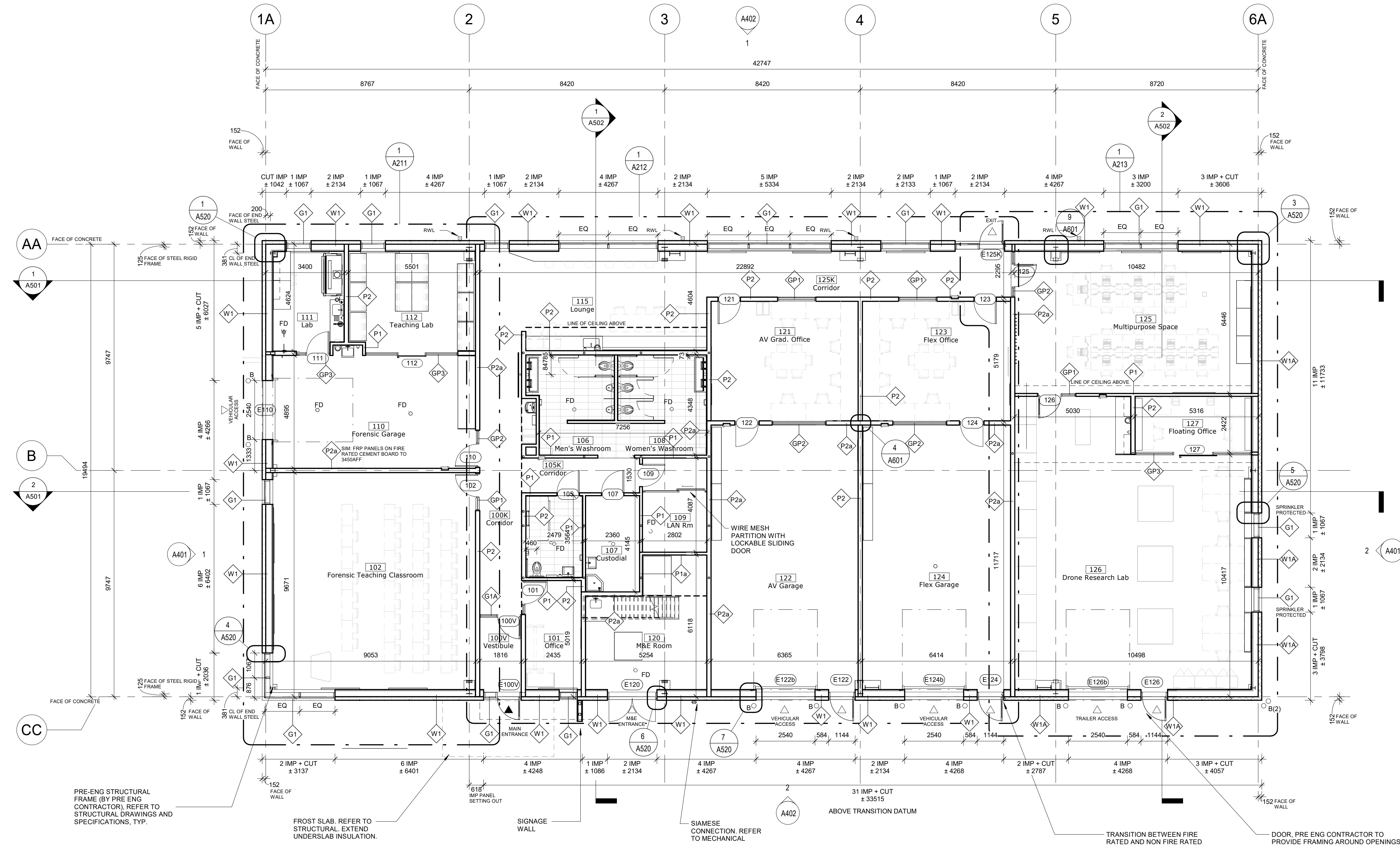
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GENERAL NOTES:
 1. LAYOUT AND DIMENSIONS OF WALL SEGMENTS AND OPENING WIDTHS ARE BASED ON A NOMINAL 1067 (42") INSULATED METAL PANEL MODULE. OWNER'S PRE-ENGINEERED BUILDING CONTRACTOR TO CONFIRM PANEL SIZE, POSITIONING AND WIDTH OF OPENINGS MAY NEED TO BE ADJUSTED IF AN ALTERNATIVE INSULATED METAL PANEL IS USED.
 BASIS OF CONTRACT TO ASSUME 1067mm NOMINAL INSULATED METAL PANEL WIDTH.
 2. ALL DIMENSIONS FOR PARTITIONS ARE TO FACE OF STUD AND FROM GRIDLINE.



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PRE-ENG STRUCTURAL FRAME (BY PRE ENG CONTRACTOR), REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS, TYP.
 FROST SLAB, REFER TO STRUCTURAL, EXTEND UNDERSLAB INSULATION.
 SIGNAGE WALL
 SIAMESE CONNECTION, REFER TO MECHANICAL
 ABOVE TRANSITION DATUM
 TRANSITION BETWEEN FIRE RATED AND NON FIRE RATED INSULATED METAL PANELS
 DOOR, PRE-ENG CONTRACTOR TO PROVIDE FRAMING AROUND OPENINGS FOR DOOR SUPPORT, TYP.

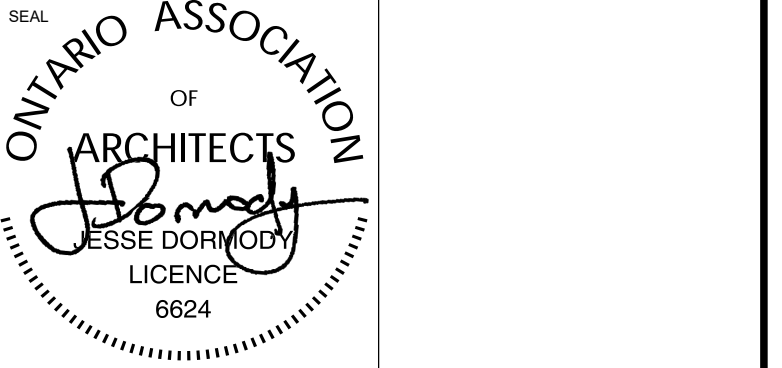
1 GROUND FLOOR PLAN
 A202 Scale: 1 : 100

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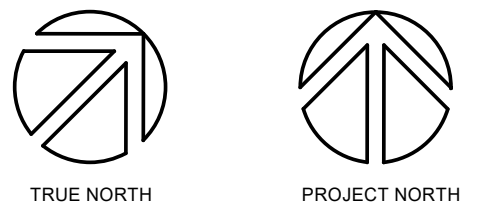
TITLE
 GROUND FLOOR PLAN

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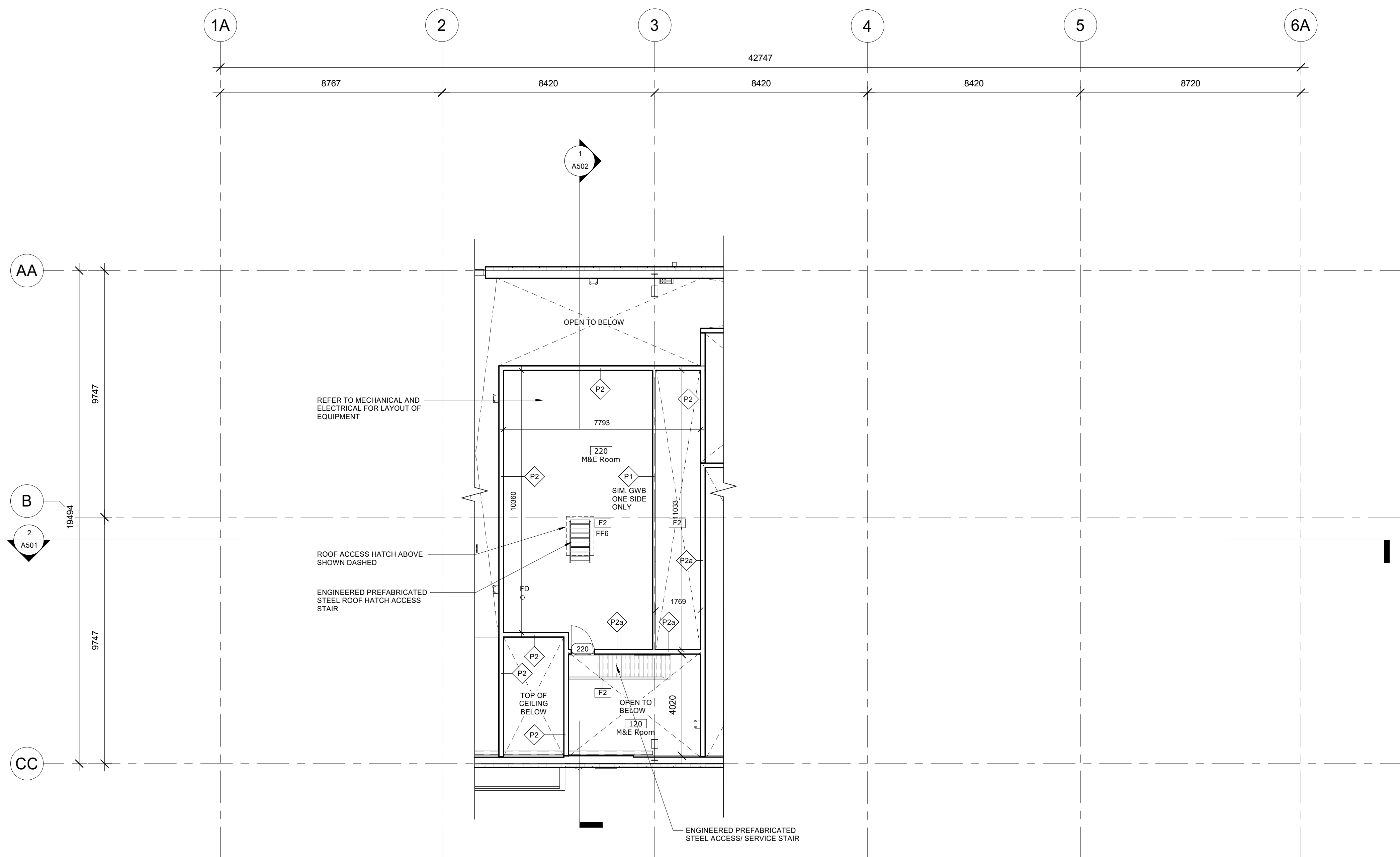
SEAL
 ONTARIO ASSOCIATION OF ARCHITECTS

 JESSE DORMODY
 LICENCE 6624

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SCALE: 1 : 100	SHEET NO: A202
DATE: 05/12/20	
PROJECT NO: 2301	
DRAWN BY: Author	
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No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
4	Issued for SPA	2024-02-09
5	Issued for Design Development Costing	2024-03-28
6	Issued for Permit	2024-11-08
7	Issued for Tender	2024-11-25



1 MEZZANINE FLOOR PLAN
A203 Scale: 1 : 100

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

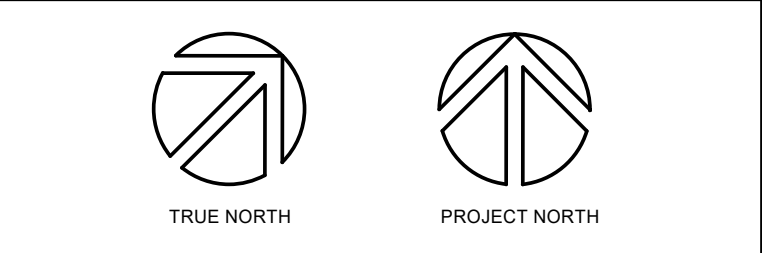
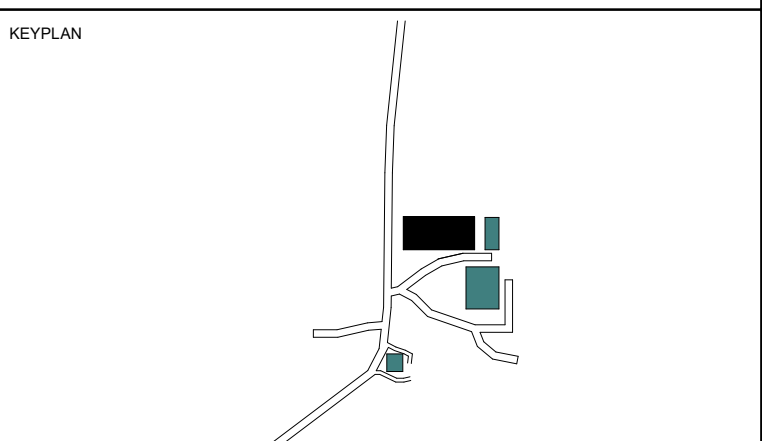
TITLE
MEZZANINE FLOOR PLAN

architects
Baird Sampson Neuert
416.363.8877 bsnarchitects.com



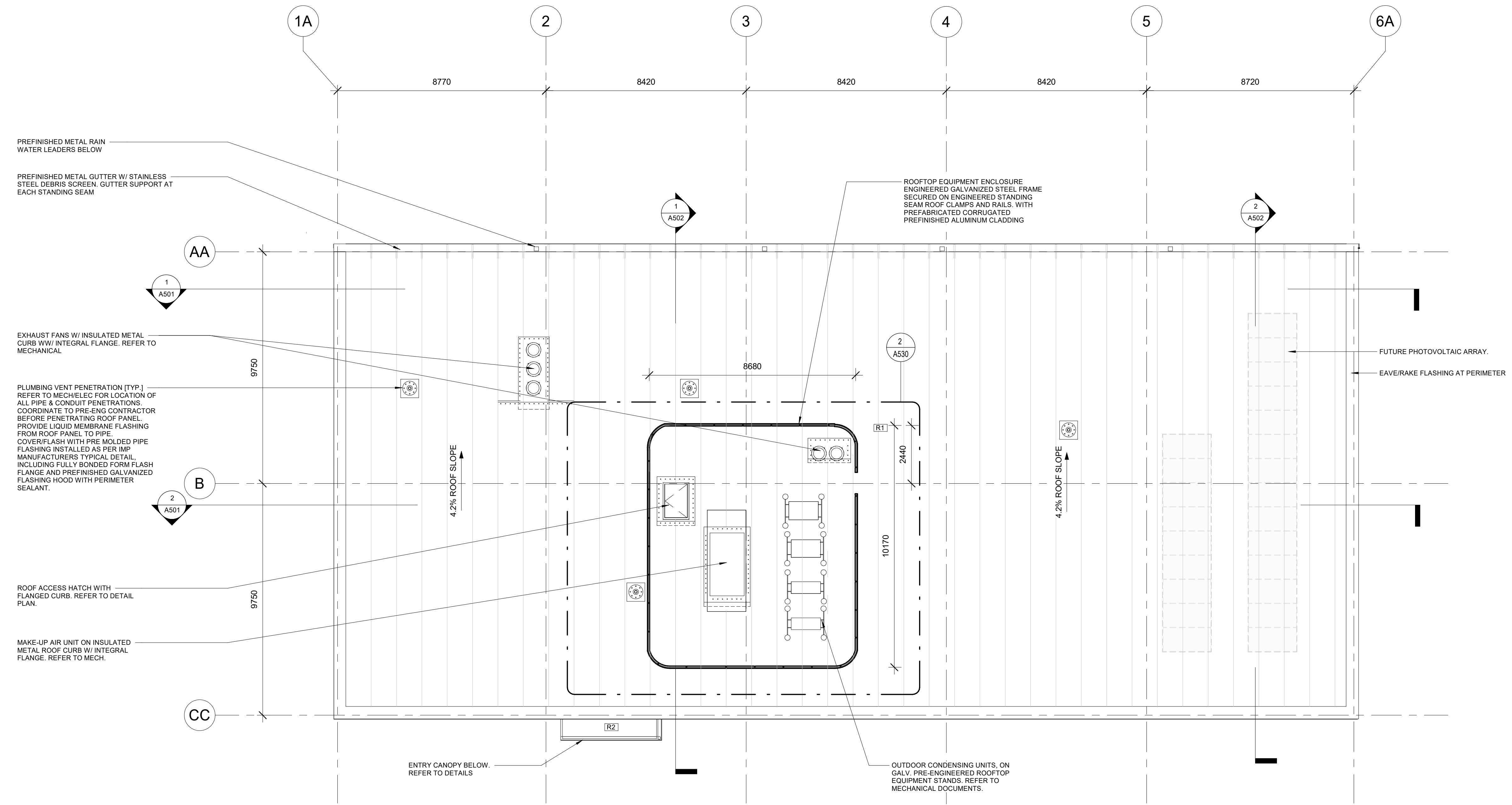
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SCALE: 1 : 100	A203
DATE: 05/12/20	
PROJECT NO: 2301	
DRAWN BY: Author	
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No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
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5	Issued for Design Development Costing	2024-03-28
6	Issued for Permit	2024-11-08
7	Issued for Tender	2024-11-25

- GENERAL NOTES**
- MECHANICAL EQUIPMENT CURBS TO BE INSTALLED IN SEQUENCE W/ INSULATED METAL ROOF PANELS. COORDINATE W/ PRE-ENG CONTRACTOR.
 - PRE-ENG SUPPLIER TO PROVIDE SUPPLEMENTARY ROOF STRUCTURE AS REQ'D AT ROOF PENETRATIONS & OPENINGS AS WELL AS BELOW ROOF MOUNTED EQUIPMENT LOADS. CONTRACTOR TO REVIEW ENGINEERED DRAWINGS OF PRE-ENG STRUCTURE & VERIFY WITH PRE-ENG SUPPLIER'S ENGINEER PRIOR TO PLACEMENT OF EQUIPMENT OR OTHER APPLIED LOADS ONTO ROOF.
 - COORDINATE ALL ROOF PENETRATIONS W/ INSULATED METAL PANEL SUPPLIER/ PRE-ENG CONTRACTOR PRIOR TO INSTALLATION.



1 ROOF PLAN
A204 Scale: 1 : 100

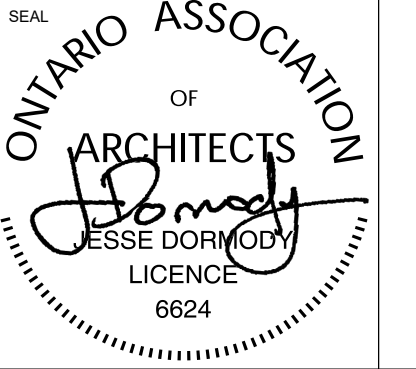
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3285 Principal's Road, Mississauga, Ontario

TITLE
ROOF PLAN

architects
Baird Sampson Neuter

416.363.8877 bsnarchitects.com



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DATE:	05/19/20		
PROJECT NO.:	2301		
DRAWN BY:	Author		
CHECKED BY:	Checker		

FLOOR PLAN LEGEND

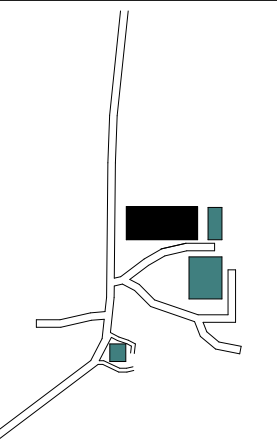
REQUIRED CLEARANCE AREA
OBC AND FADS

CLIENT LOGO

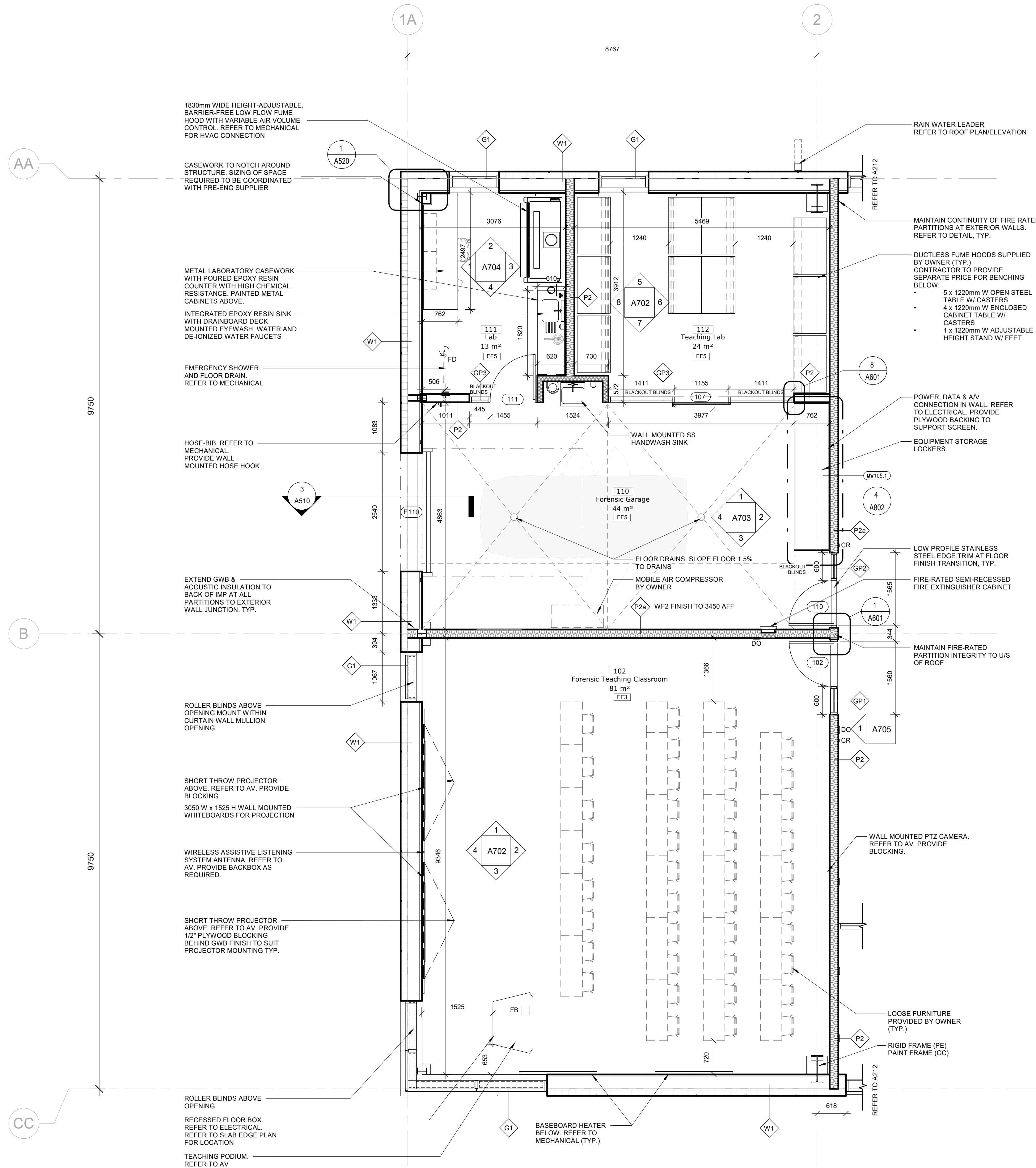


UNIVERSITY OF
TORONTO
MISSISSAUGA

KEYPLAN



No.	ISSUANCE	DATE
1	Issued for Permit	2024-11-08
2	Issued for Tender	2024-11-25



1 ENLARGED PLAN - WEST WING/FSC

A211 Scale: 1:50

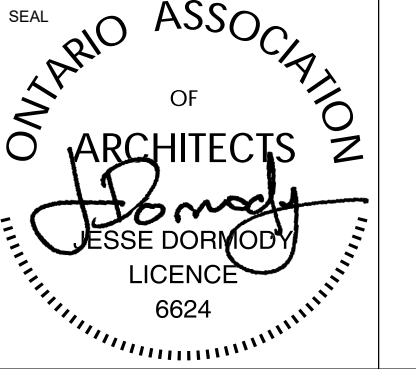
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
ENLARGED PLANS - WEST WING/ FSC

architects
Baird Sampson Neurt

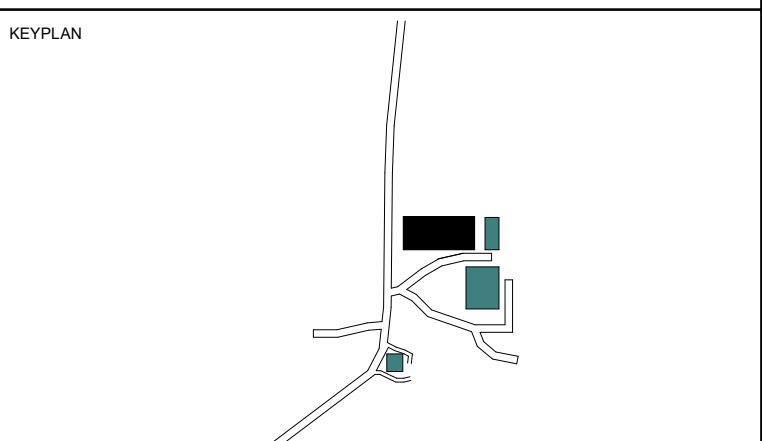
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SCALE: As indicated	SHEET NO: A211
DATE: 09/11/20	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



No.	ISSUANCE	DATE
1	Issued for Permit	2024-11-08
2	Issued for Tender	2024-11-25

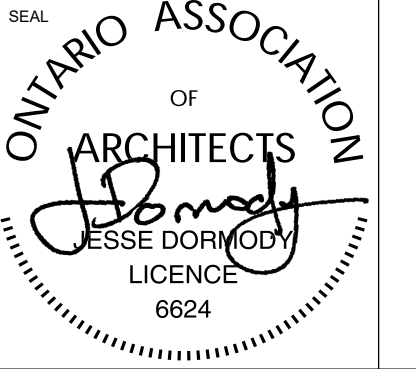
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
ENLARGED PLANS - CENTRAL WING

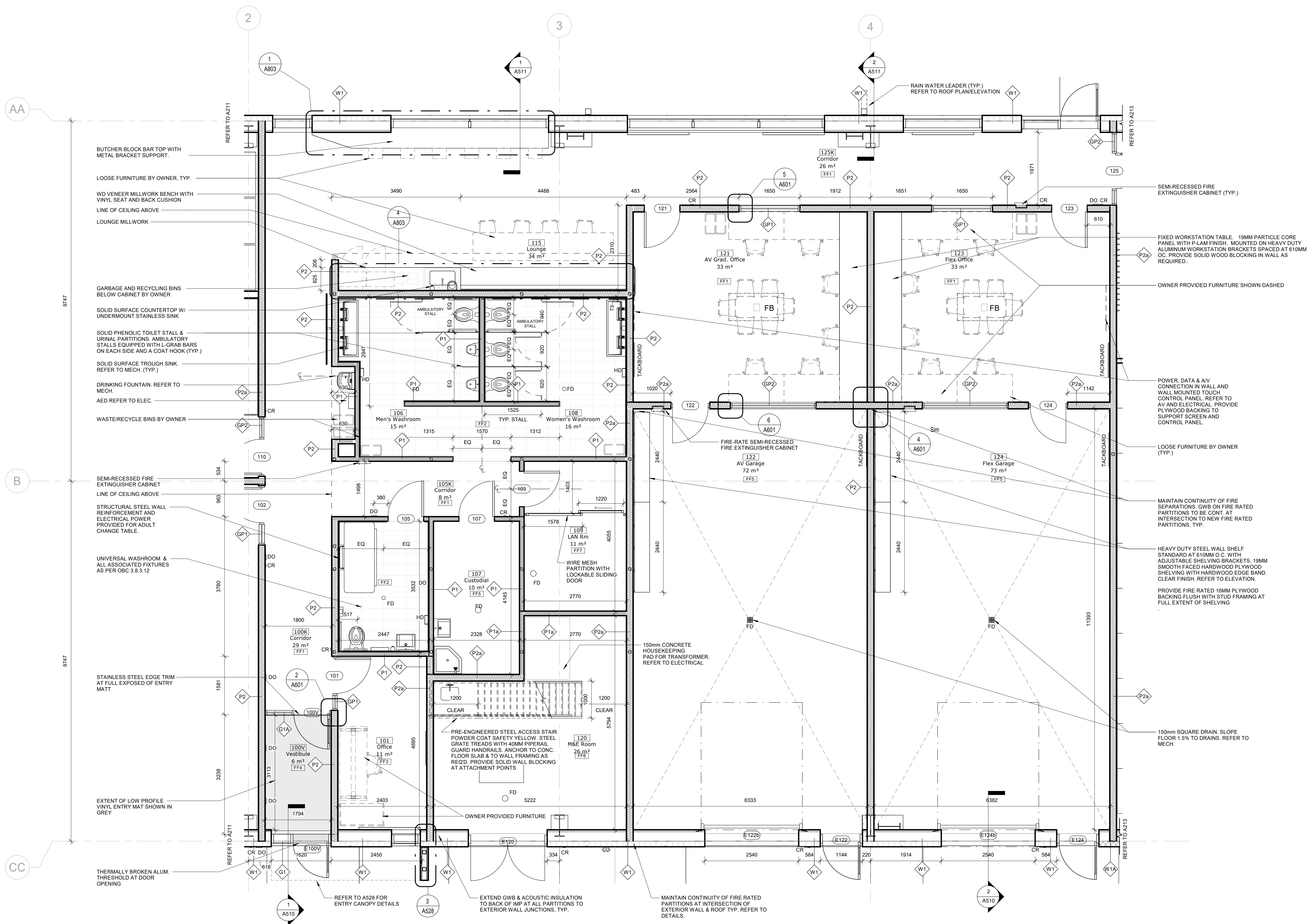
architects
Baird Sampson Neuter

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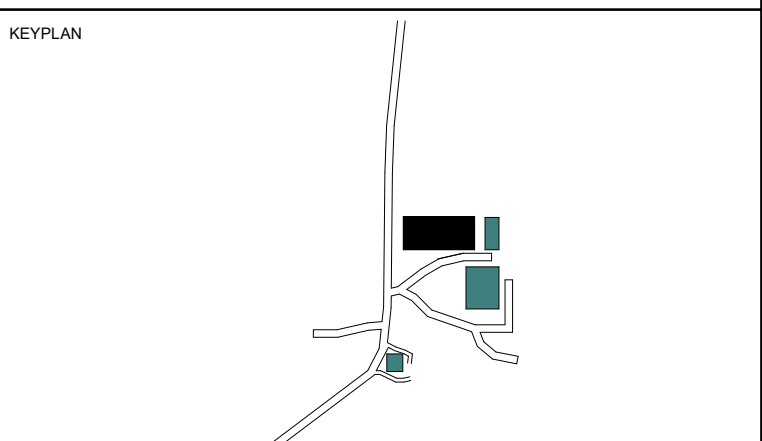


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SCALE:	1 : 50	SHEET NO.:	A212
DATE:	09/30/20	PROJECT NO.:	2301
DRAWN BY:	Author	CHECKED BY:	Checker



1 ENLARGED PLAN - CENTRAL WING
Scale: 1 : 50



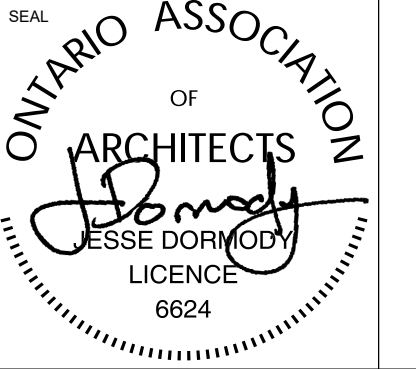
No.	ISSUANCE	DATE
1	Issued for Permit	2024-11-08
2	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

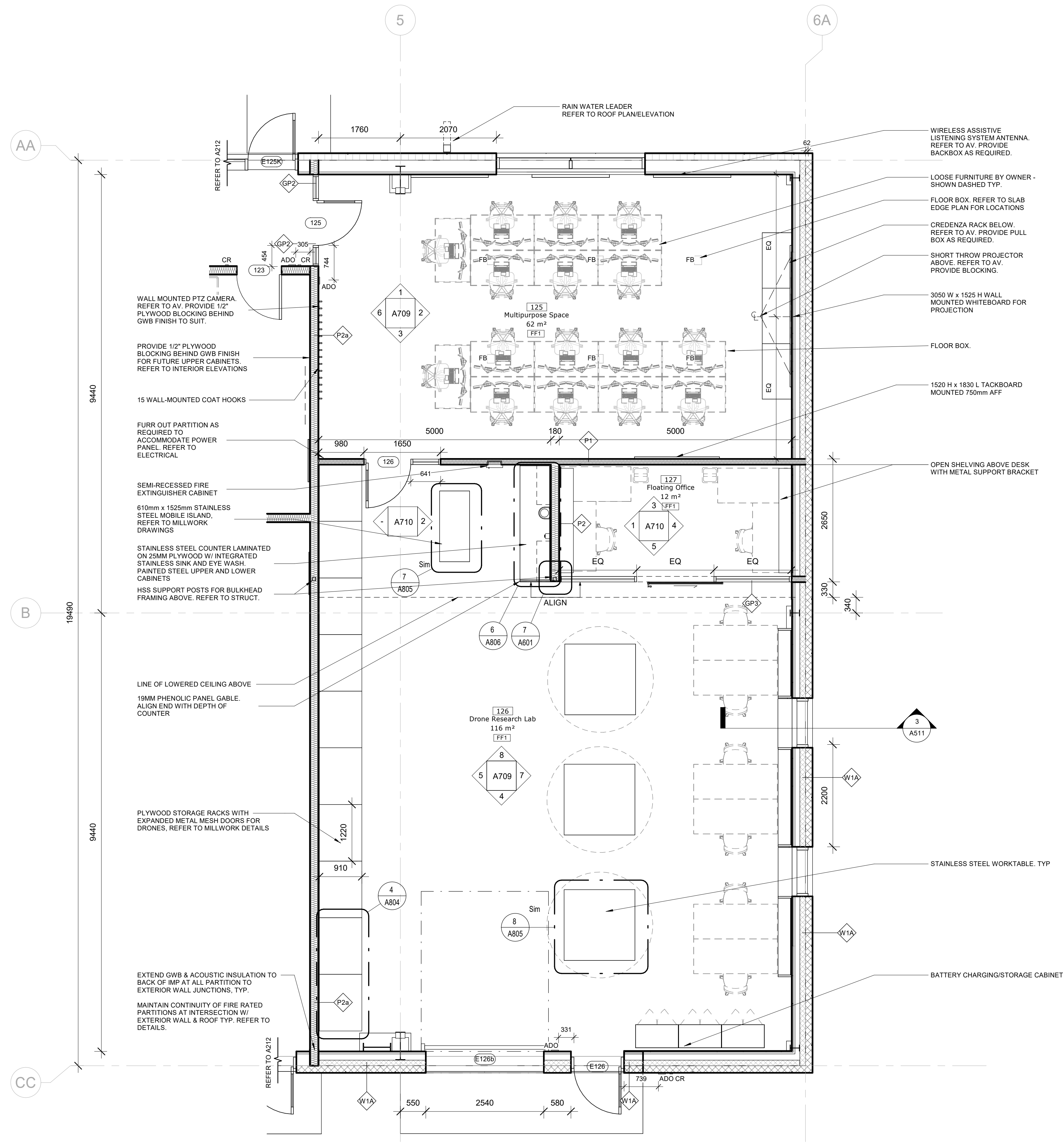
TITLE
ENLARGED PLANS - EAST WING/CROBE

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Baird Sampson Neuert
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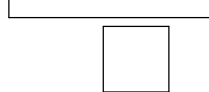
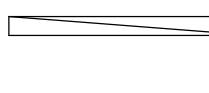

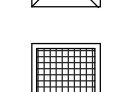
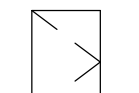


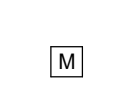




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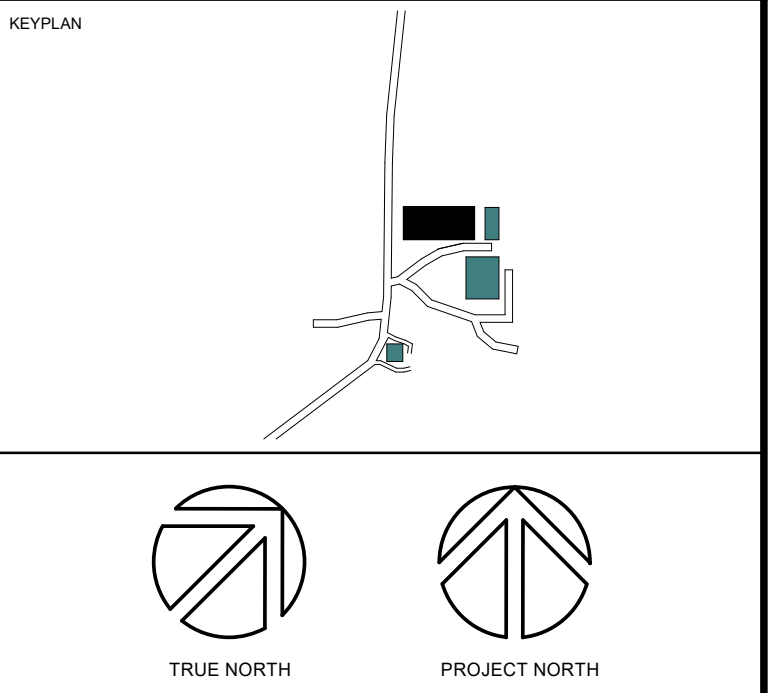
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DATE:	09/11/20		
PROJECT NO.:	2301		
DRAWN BY:	Author		
CHECKED BY:	Checker		



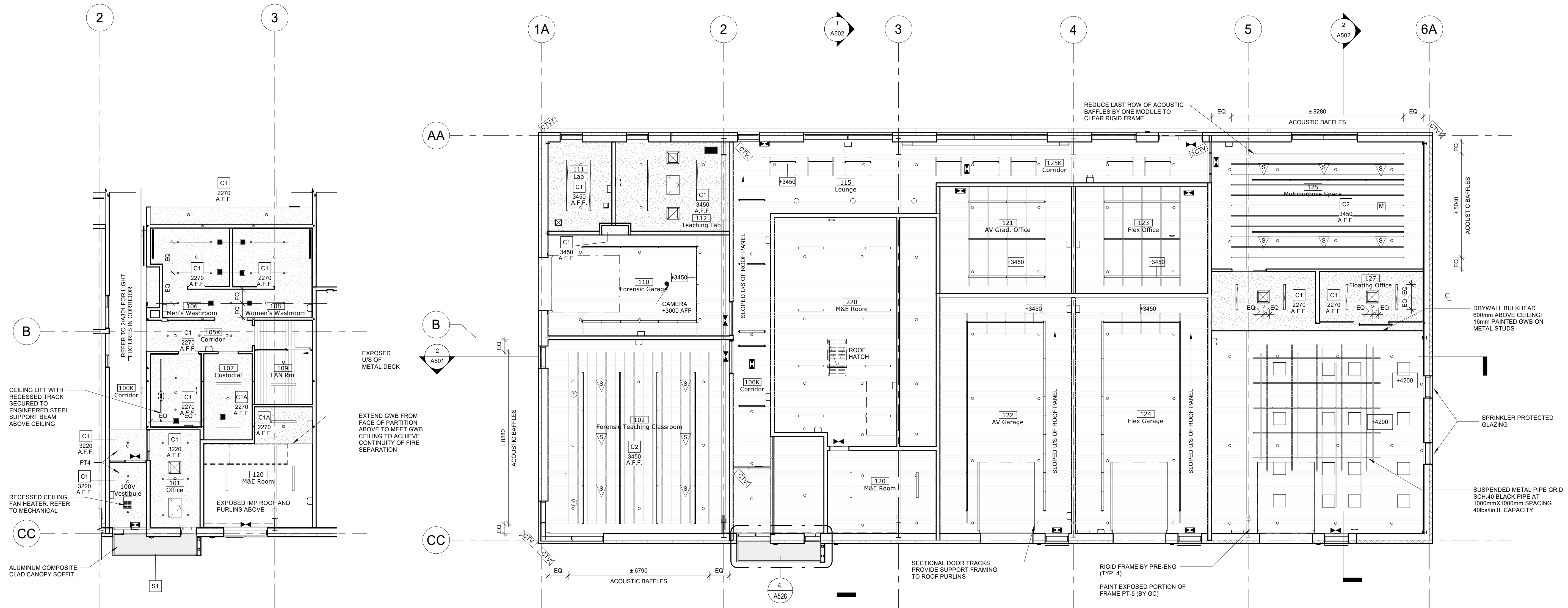
1 ENLARGED PLAN - EAST WING/CROBE
A213 Scale: 1 : 50

CEILING LEGEND

-  SUSPENDED CEILING LUMINAIRE. REFER TO ELECTRICAL LIGHTING LAYOUT
-  RECESSED CEILING LUMINAIRE. REFER TO ELECTRICAL LIGHTING LAYOUT
-  RECESSED CEILING DOWNLIGHT. REFER TO ELECTRICAL LIGHTING LAYOUT
-  SUPPLY DIFFUSER. REFER TO MECHANICAL
-  EXHAUST GRILL. REFER TO MECHANICAL
-  FLUSH CEILING ACCESS PANEL
-  SPRINKLER HEAD. REFER TO FIRE PROTECTION
-  EXIT SIGN. REFER TO ELECTRICAL LIGHTING LAYOUT
-  PENDANT SPEAKERS. REFER TO AV
-  CEILING MICROPHONE. REFER TO AV
-  WIRELESS MIC ANTENNA. REFER TO AV
-  CLOSED CIRCUIT TELEVISION (SECURITY CAMERA). REFER TO SECURITY AND ELECTRICAL.



No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
4	Issued for Design Development Costing	2024-03-28
5	Issued for Permit	2024-11-08
6	Issued for Tender	2024-11-25



1 REFLECTED CEILING PLAN - ENTRY AND SERVICE CORE
A301 Scale: 1 : 100

2 REFLECTED CEILING PLAN
A301 Scale: 1 : 100

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE
REFLECTED CEILING PLAN

architects
Baird Sampson Neuter

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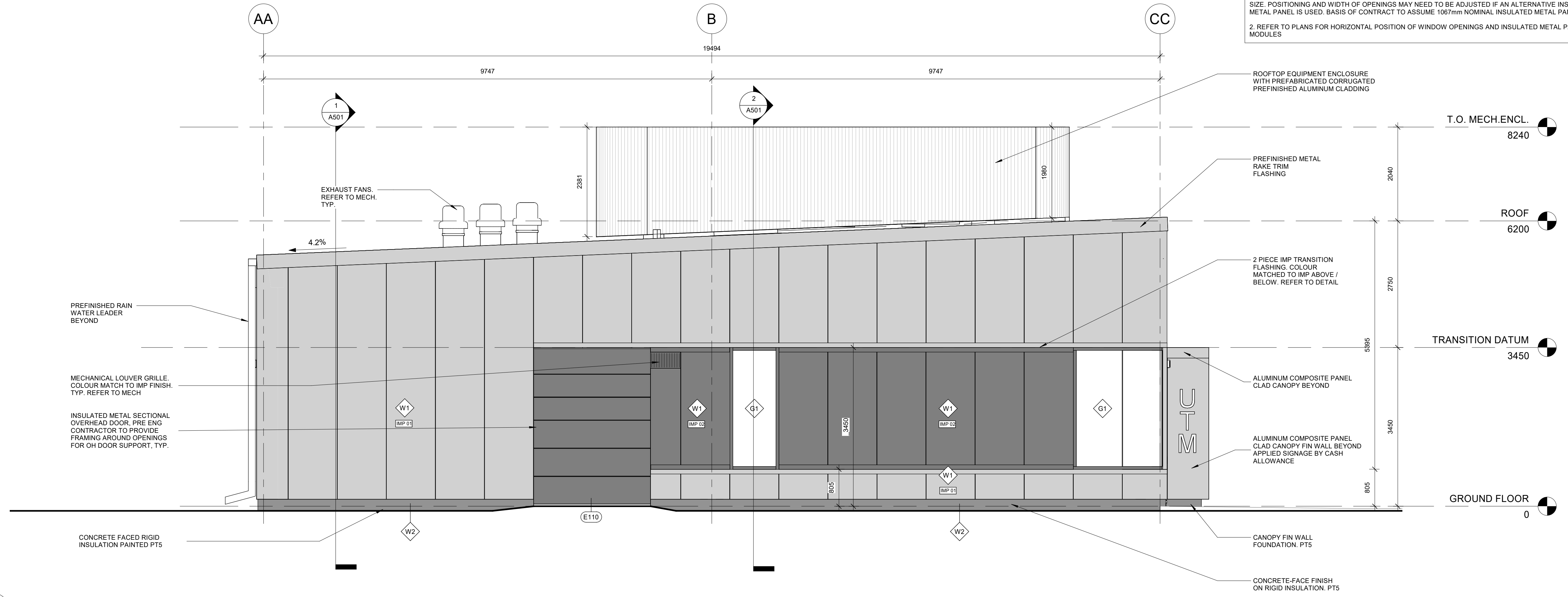


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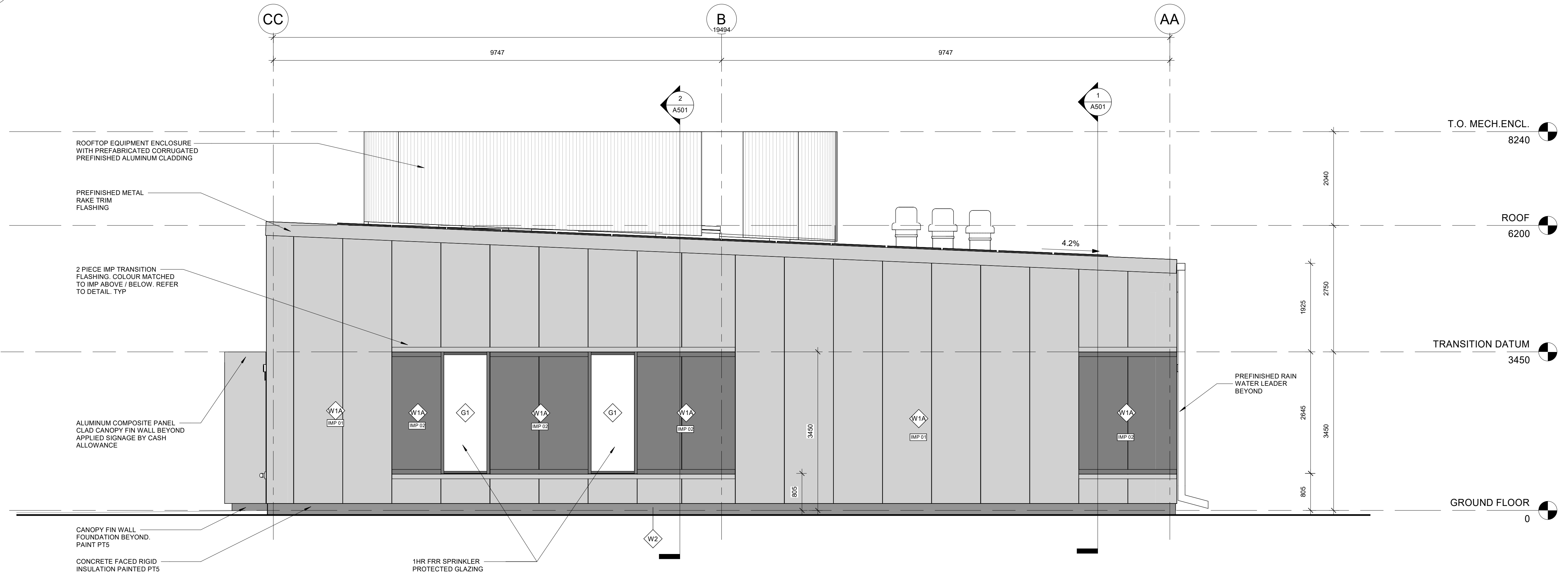
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SCALE: As indicated	SHEET NO:
DATE: 05/19/20	A301
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	

GENERAL NOTES:
 1. LAYOUT AND DIMENSIONS OF WALL SEGMENTS AND OPENING WIDTHS ARE BASED ON A NOMINAL 1067 (42") INSULATED METAL PANEL MODULE. OWNER'S PRE-ENGINEERED BUILDING CONTRACTOR TO CONFIRM PANEL SIZE. POSITIONING AND WIDTH OF OPENINGS MAY NEED TO BE ADJUSTED IF AN ALTERNATIVE INSULATED METAL PANEL IS USED. BASIS OF CONTRACT TO ASSUME 1067mm NOMINAL INSULATED METAL PANEL WIDTH.
 2. REFER TO PLANS FOR HORIZONTAL POSITION OF WINDOW OPENINGS AND INSULATED METAL PANEL MODULES



1 WEST ELEVATION
 A401 Scale: 1 : 50



2 EAST ELEVATION
 A401 Scale: 1 : 50

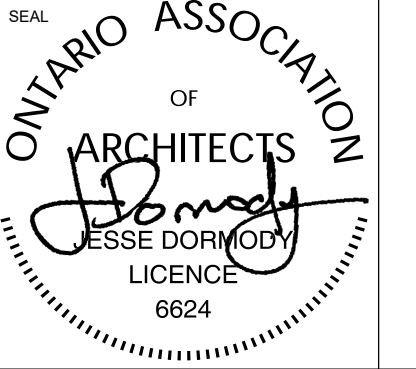
No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
4	Issued for SPA	2024-02-09
5	Issued for Design Development Costing	2024-03-28
6	Issued for Permit	2024-11-08
7	Issued for Tender	2024-11-25

CLIENT
 University of Toronto Mississauga

PROJECT
 Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

TITLE
 ELEVATIONS

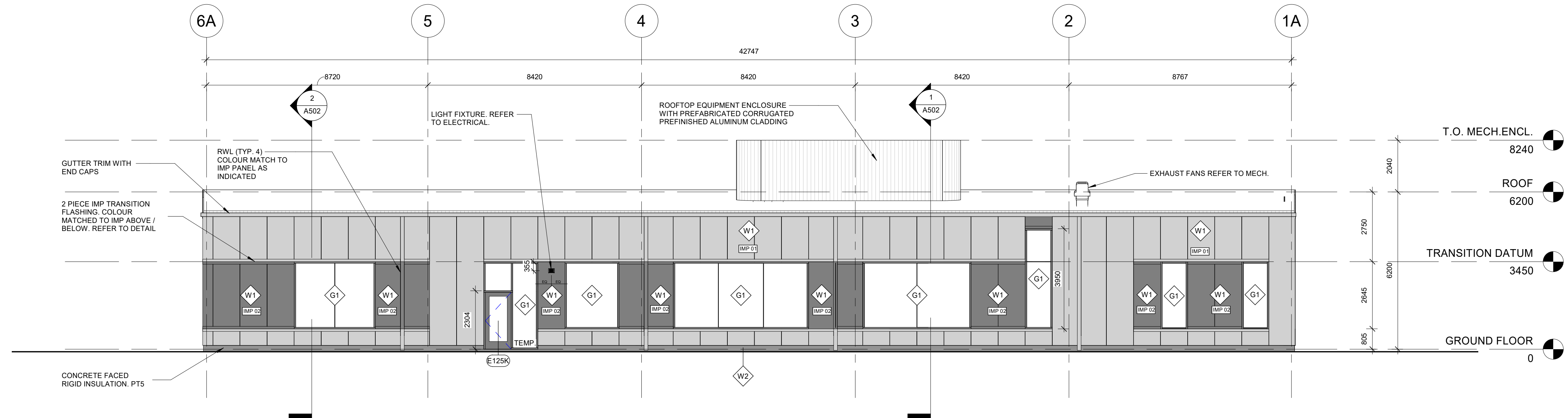
architects
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 416.363.8877 bsnarchitects.com



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DATE: 05/19/20	A401
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	

GENERAL NOTES:
 1. LAYOUT AND DIMENSIONS OF WALL SEGMENTS AND OPENING WIDTHS ARE BASED ON A NOMINAL 1067 (42") INSULATED METAL PANEL MODULE. OWNER'S PRE-ENGINEERED BUILDING CONTRACTOR TO CONFIRM PANEL SIZE. POSITIONING AND WIDTH OF OPENINGS MAY NEED TO BE ADJUSTED IF AN ALTERNATIVE INSULATED METAL PANEL IS USED. BASIS OF CONTRACT TO ASSUME 1067mm NOMINAL INSULATED METAL PANEL WIDTH.
 2. REFER TO PLANS FOR HORIZONTAL POSITION OF WINDOW OPENINGS AND INSULATED METAL PANEL MODULES



1 NORTH ELEVATION
 A402 Scale: 1 : 100

No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
4	Issued for SPA	2024-02-09
5	Issued for Design Development Costing	2024-03-28
6	Issued for Permit	2024-11-08
7	Issued for Tender	2024-11-25

CLIENT
 University of Toronto Mississauga

PROJECT
 Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

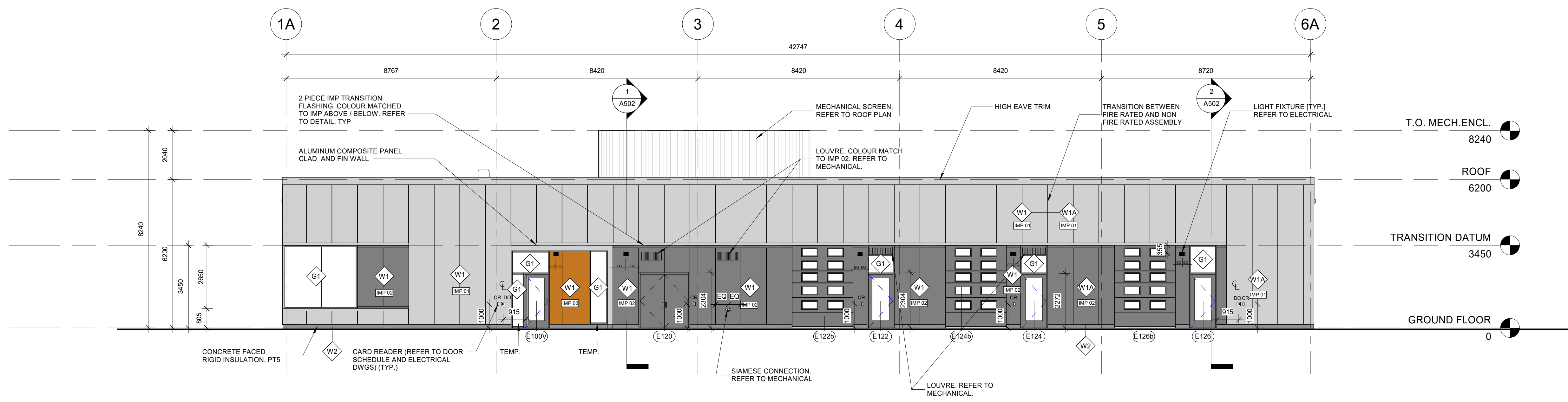
TITLE
 ELEVATIONS

architects
Baird Sampson Neuert
 416.363.8877 bsnarchitects.com

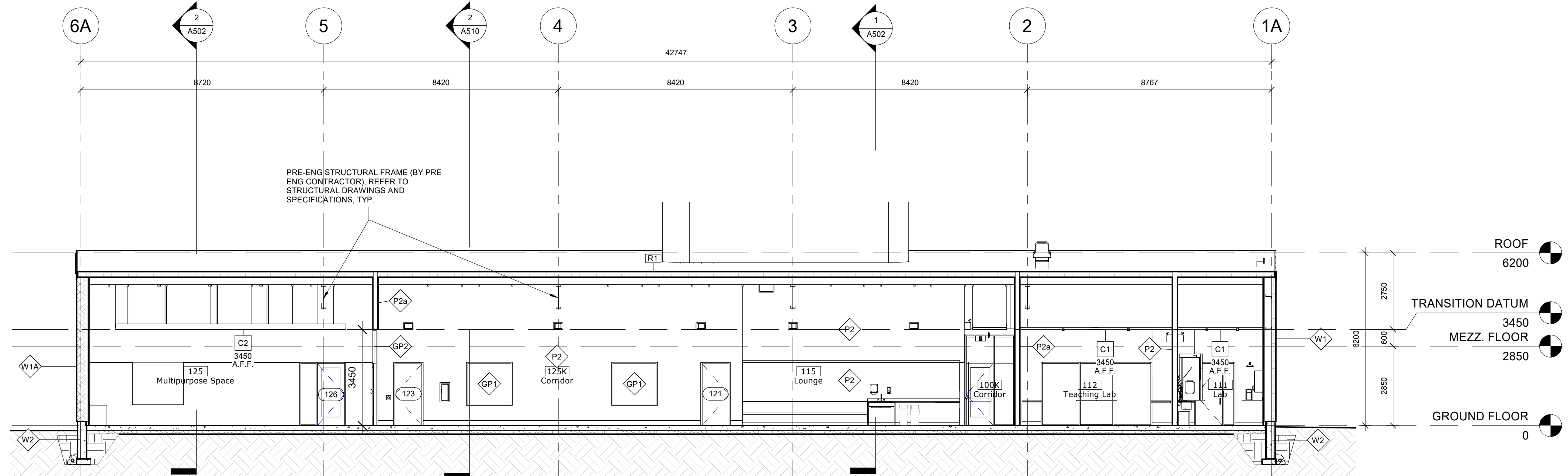
SEAL

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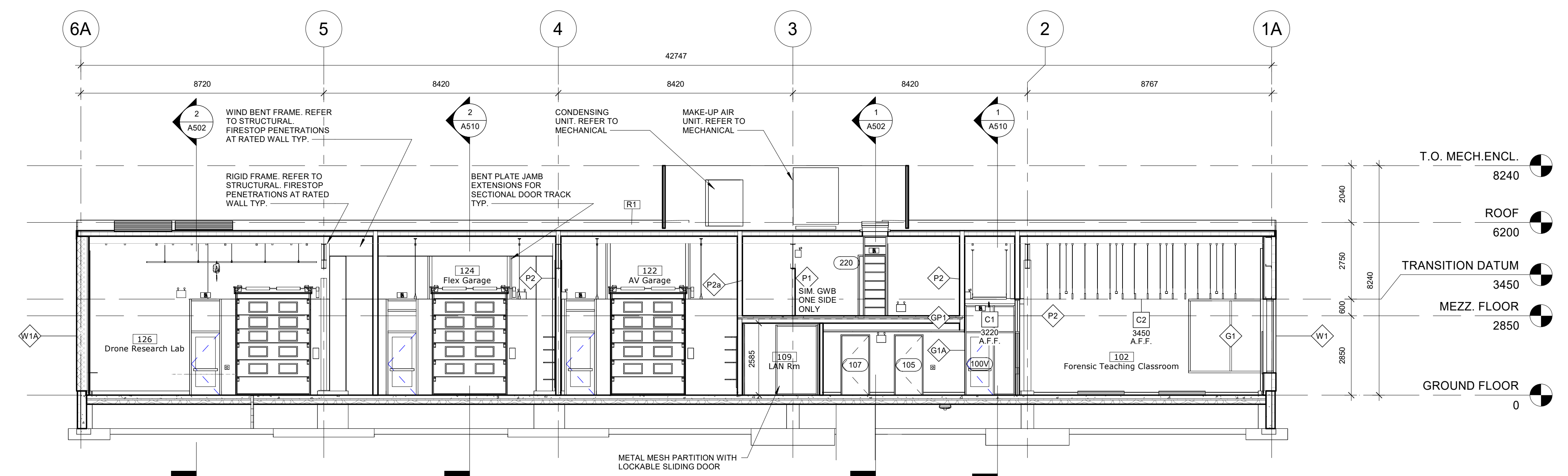
SCALE: 1 : 100 SHEET NO:
 DATE: 06/12/20
 PROJECT NO: 2301
 DRAWN BY: Author
 CHECKED BY: Checker
A402



2 SOUTH ELEVATION
 A402 Scale: 1 : 100



1 N-S SECTION
A501 Scale: 1 : 100



2 N-S SECTION
A501 Scale: 1 : 100

No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
4	Issued for SPA	2024-02-09
5	Issued for Design Development Costing	2024-03-28
6	Issued for Permit	2024-11-08
7	Issued for Tender	2024-11-25

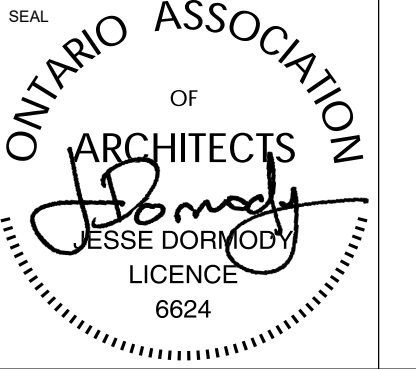
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
BUILDING SECTIONS

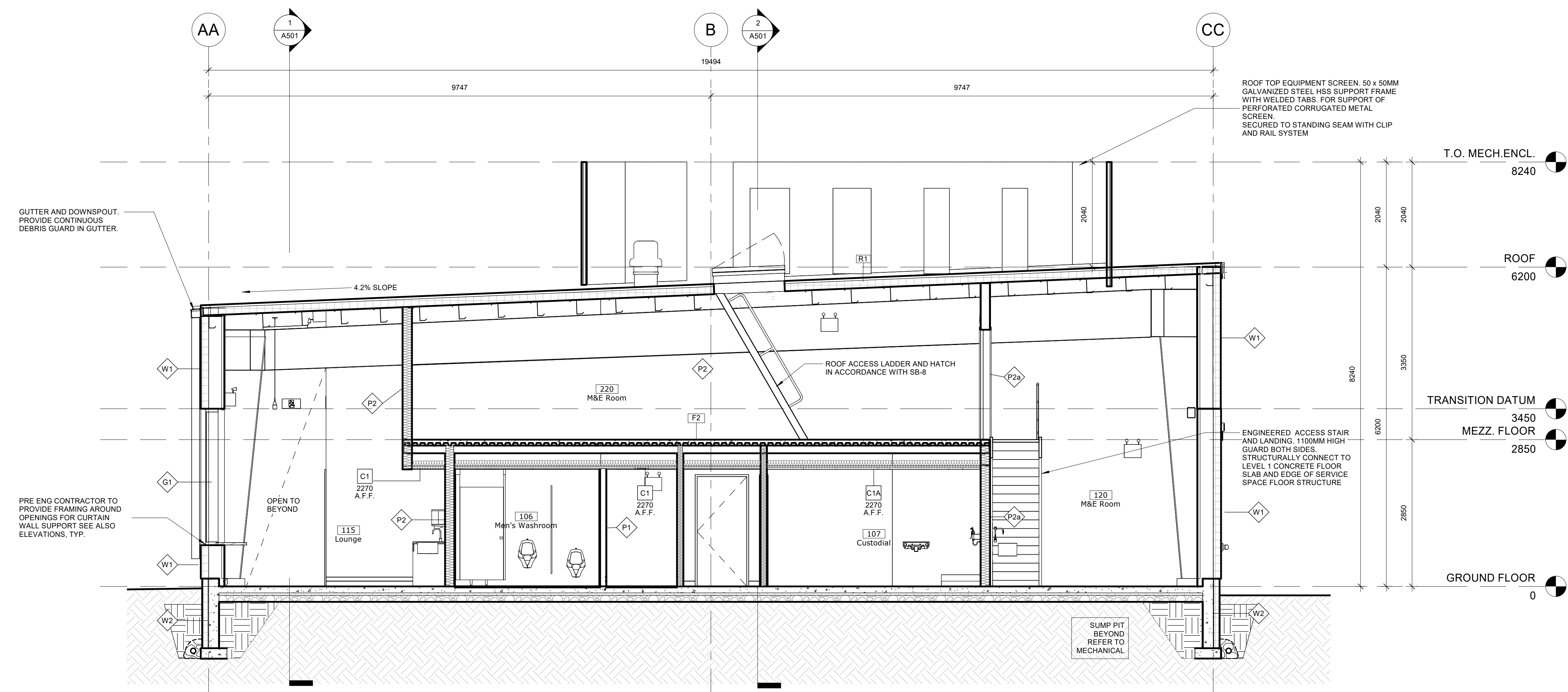
architects
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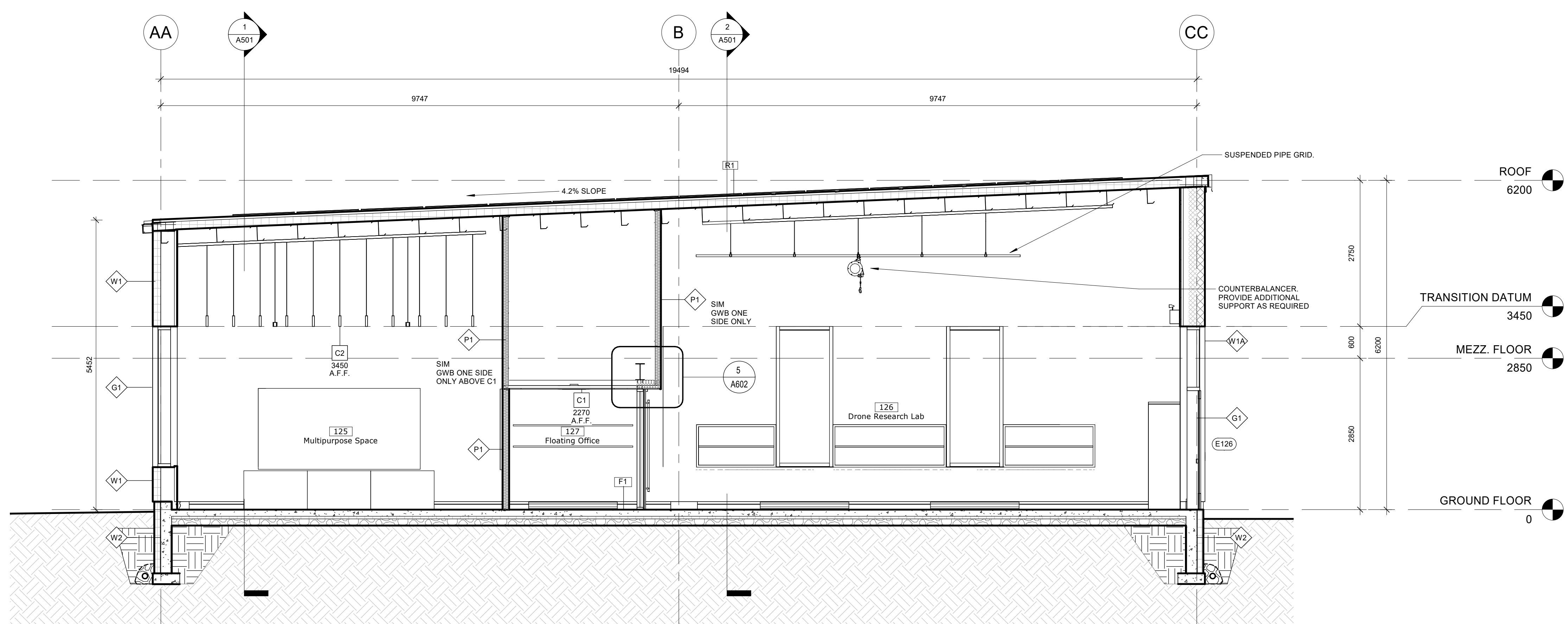


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SCALE: 1 : 100	SHEET NO: A501
DATE: 05/26/20	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



1 E-W SECTION
A502 Scale: 1 : 50



2 E-W SECTION 2
A502 Scale: 1 : 50

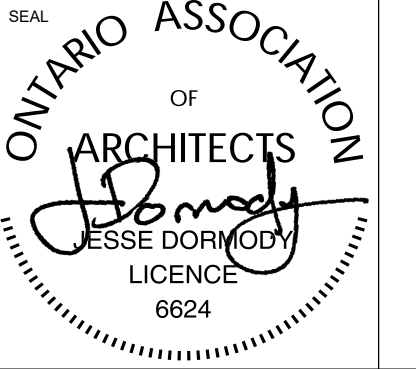
No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
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5	Issued for Design Development Costing	2024-03-28
6	Issued for Permit	2024-11-08
7	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3285 Principal's Road, Mississauga, Ontario

TITLE
BUILDING SECTIONS

architects
Baird Sampson Neurt
416.363.8877 bsnarchitects.com



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SCALE: 1 : 50	SHEET NO:
DATE: 05/26/20	A502
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	

No.	ISSUANCE	DATE
1	Issued for 100% SD	2023-12-21
2	Issued for SPA	2024-02-09
3	Issued for Design Development Costing	2024-03-28
4	Issued for Permit	2024-11-08
5	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

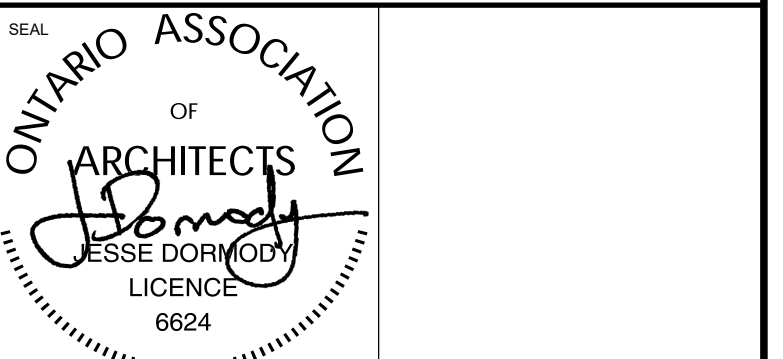
PROJECT
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE
WALL SECTIONS

architects
Baird Sampson Neuert

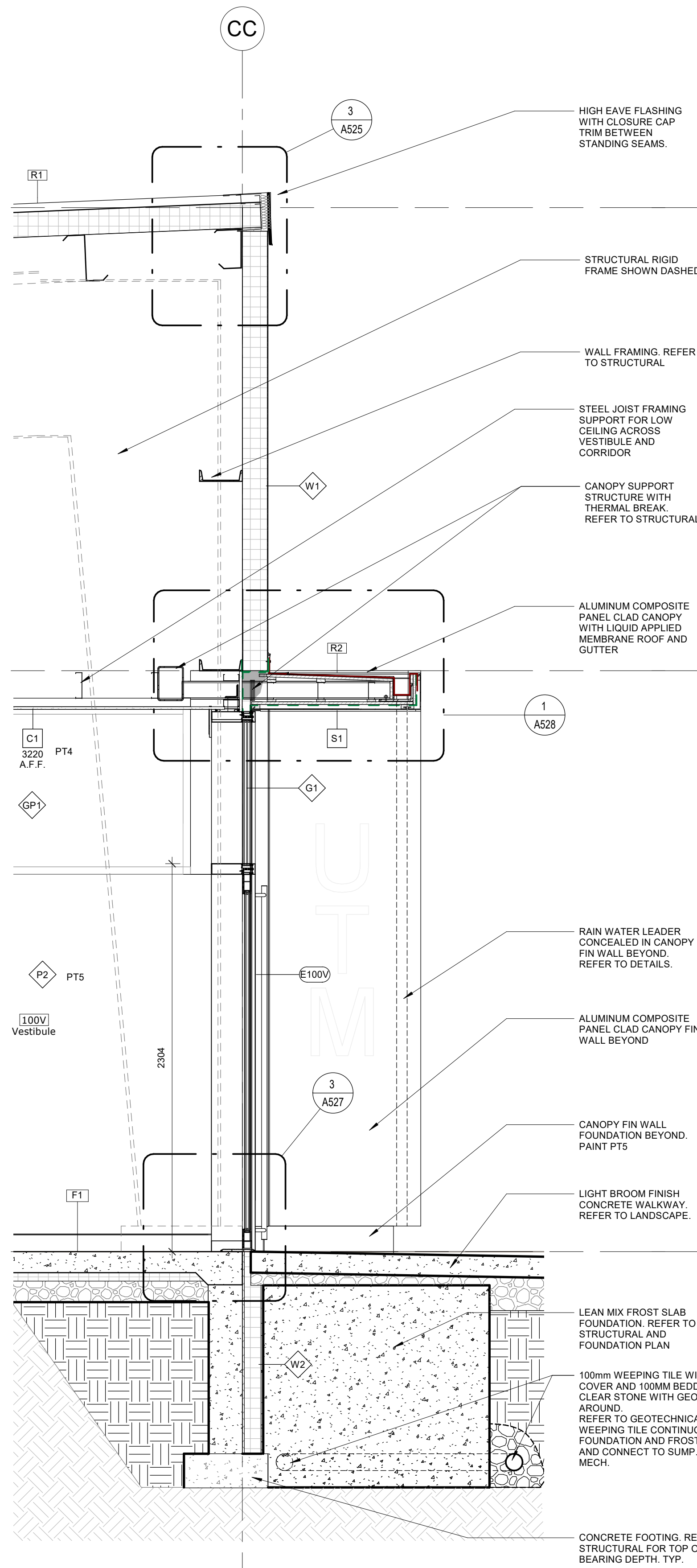
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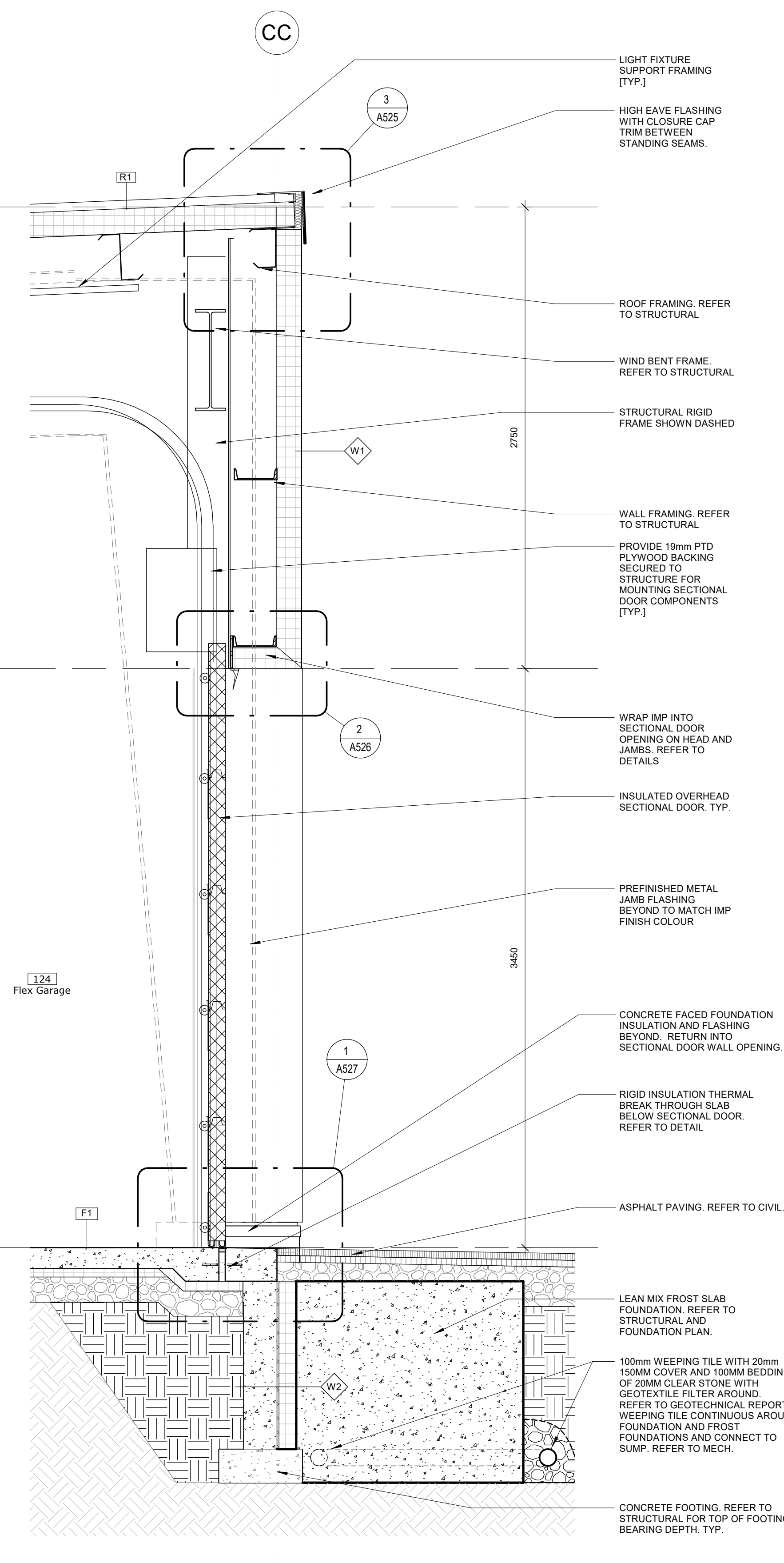
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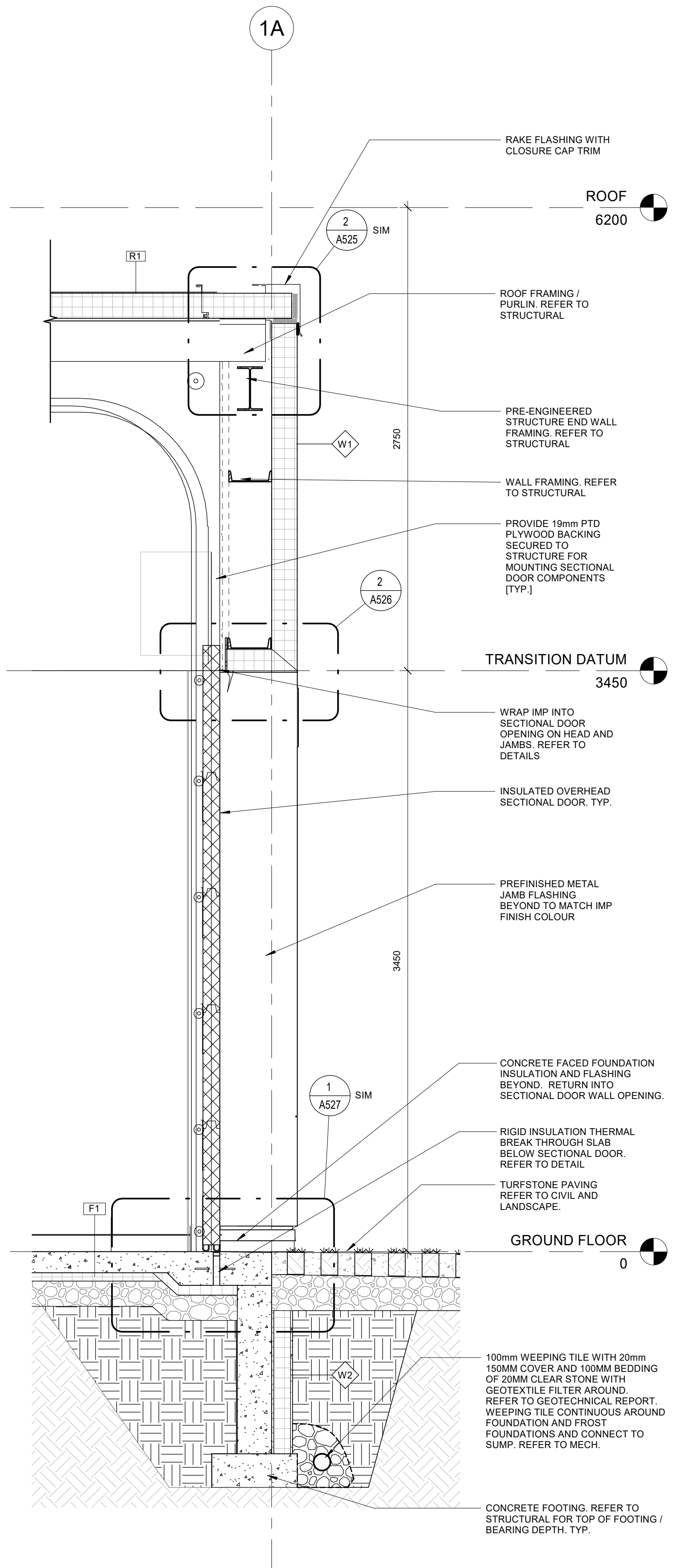
SCALE: 1:20	SHEET NO: A510
DATE: 05/26/20	
PROJECT NO: 2301	
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CHECKED BY: Checker	



1 WALL SECTION AT ENTRY
A510 Scale: 1:20



2 WALL SECTION AT SECTIONAL DOOR - SOUTH WALL
A510 Scale: 1:20



3 WALL SECTION AT SECTIONAL DOOR - WEST WALL
A510 Scale: 1:20

No.	ISSUANCE	DATE
1	Issued for 100% SD	2023-12-21
2	Issued for SPA	2024-02-09
3	Issued for Design Development Costing	2024-03-28
4	Issued for Permit	2024-11-08
5	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

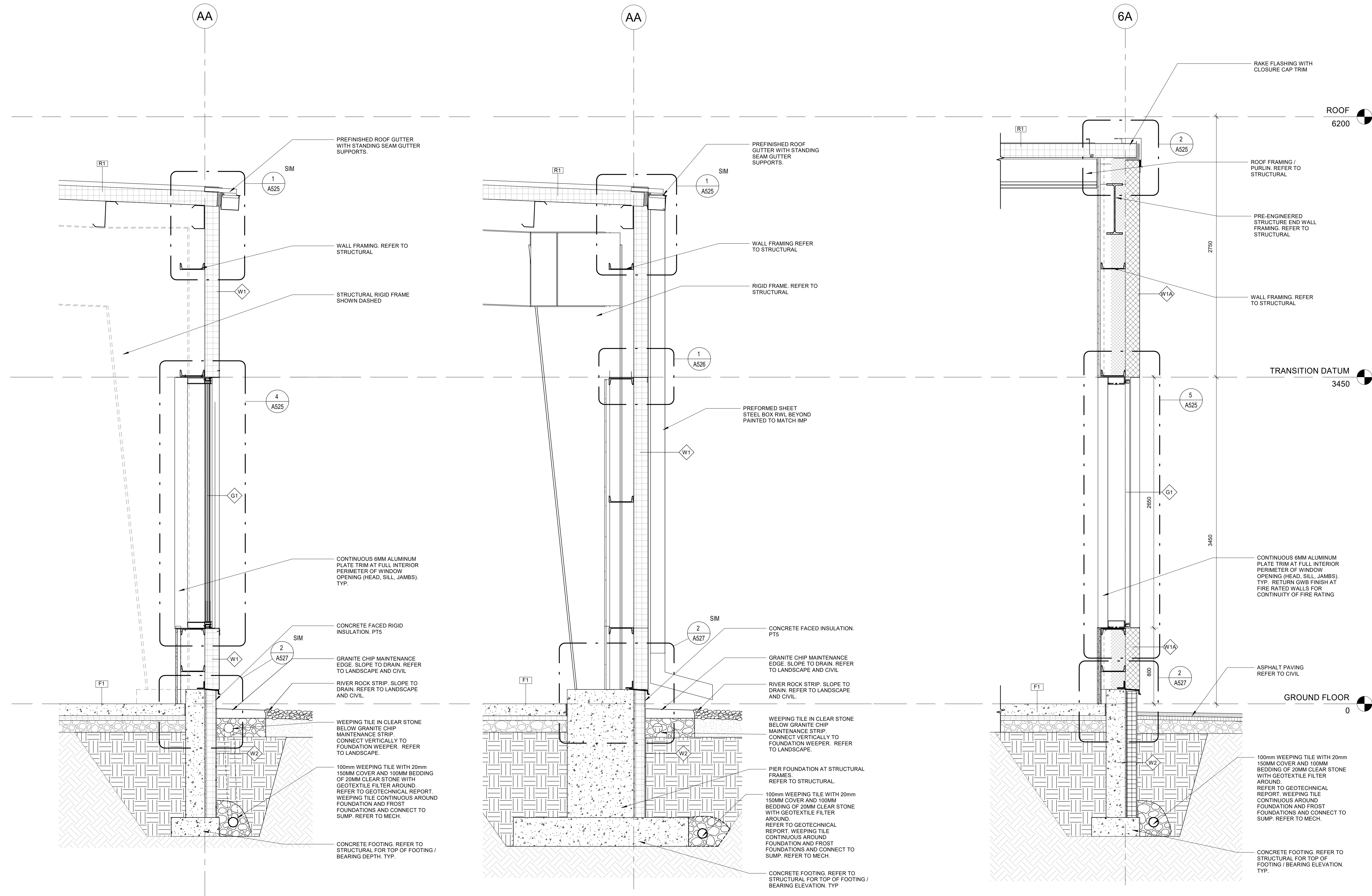
TITLE
WALL SECTIONS

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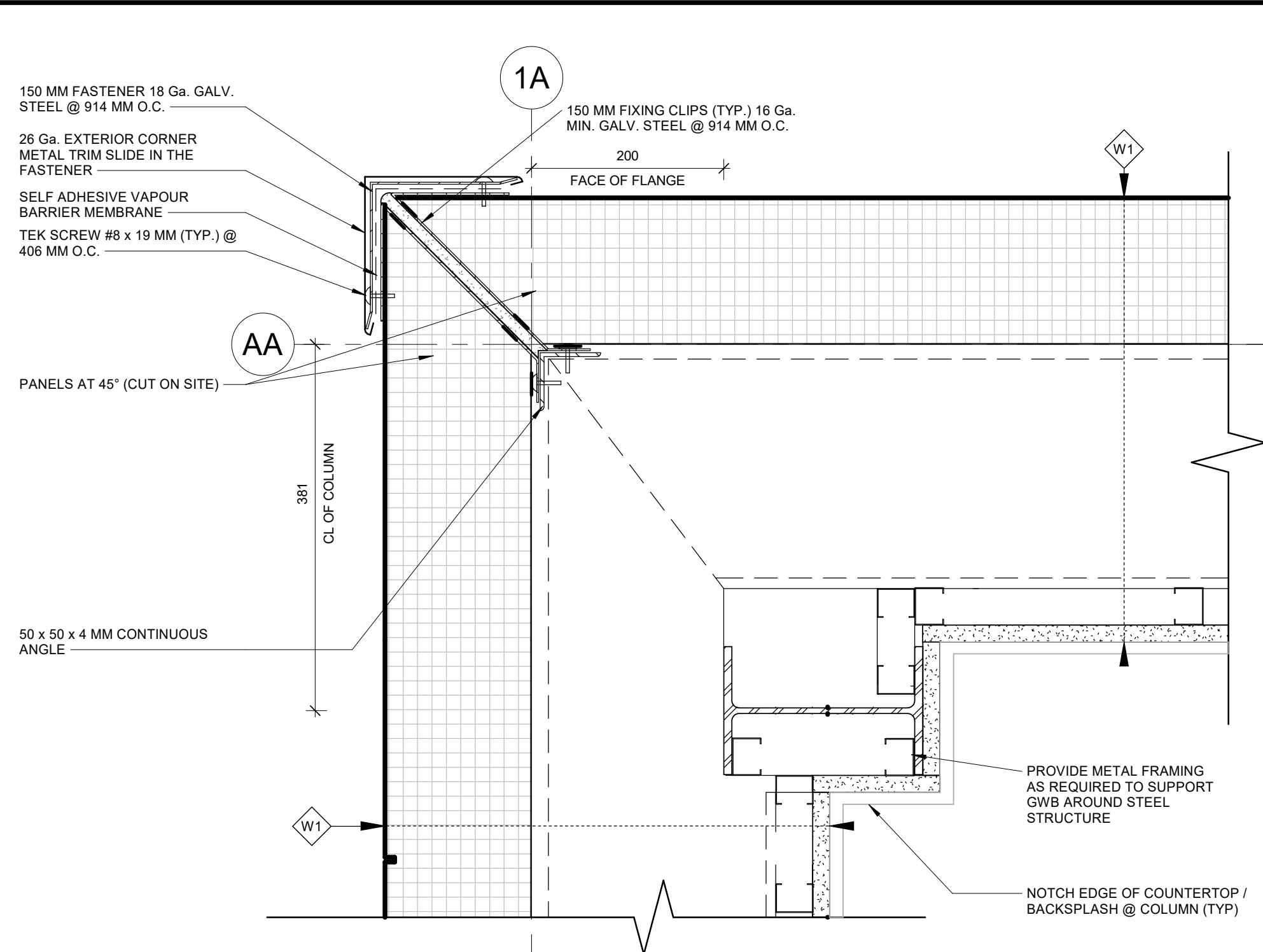
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PROJECT NO.:	2301		
DRAWN BY:	Author		
CHECKED BY:	Checker		



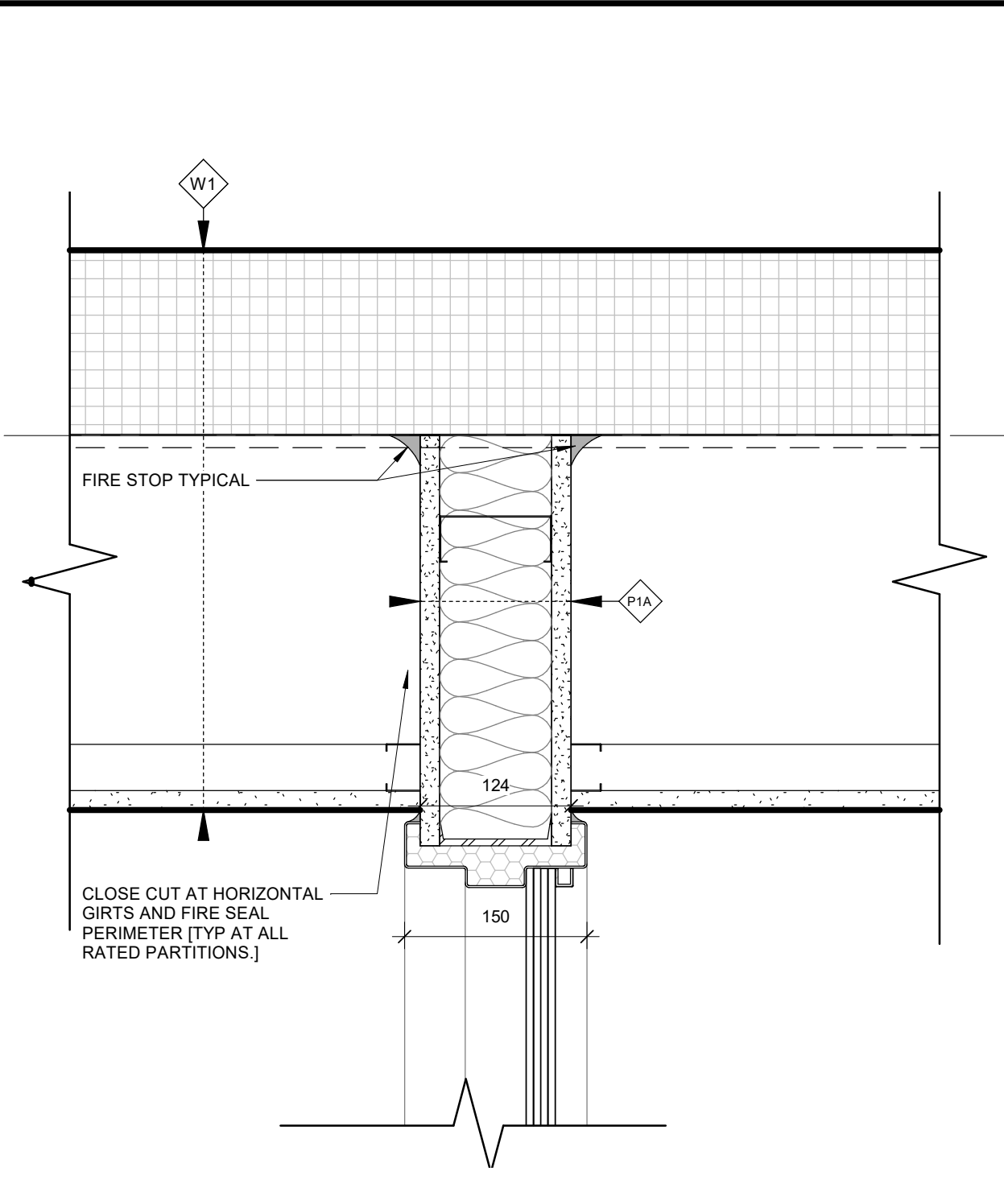
1 WALL SECTION AT FULL HEIGHT WINDOW
A511 Scale: 1 : 20

2 WALL SECTION AT COLUMN PIER
A511 Scale: 1 : 20

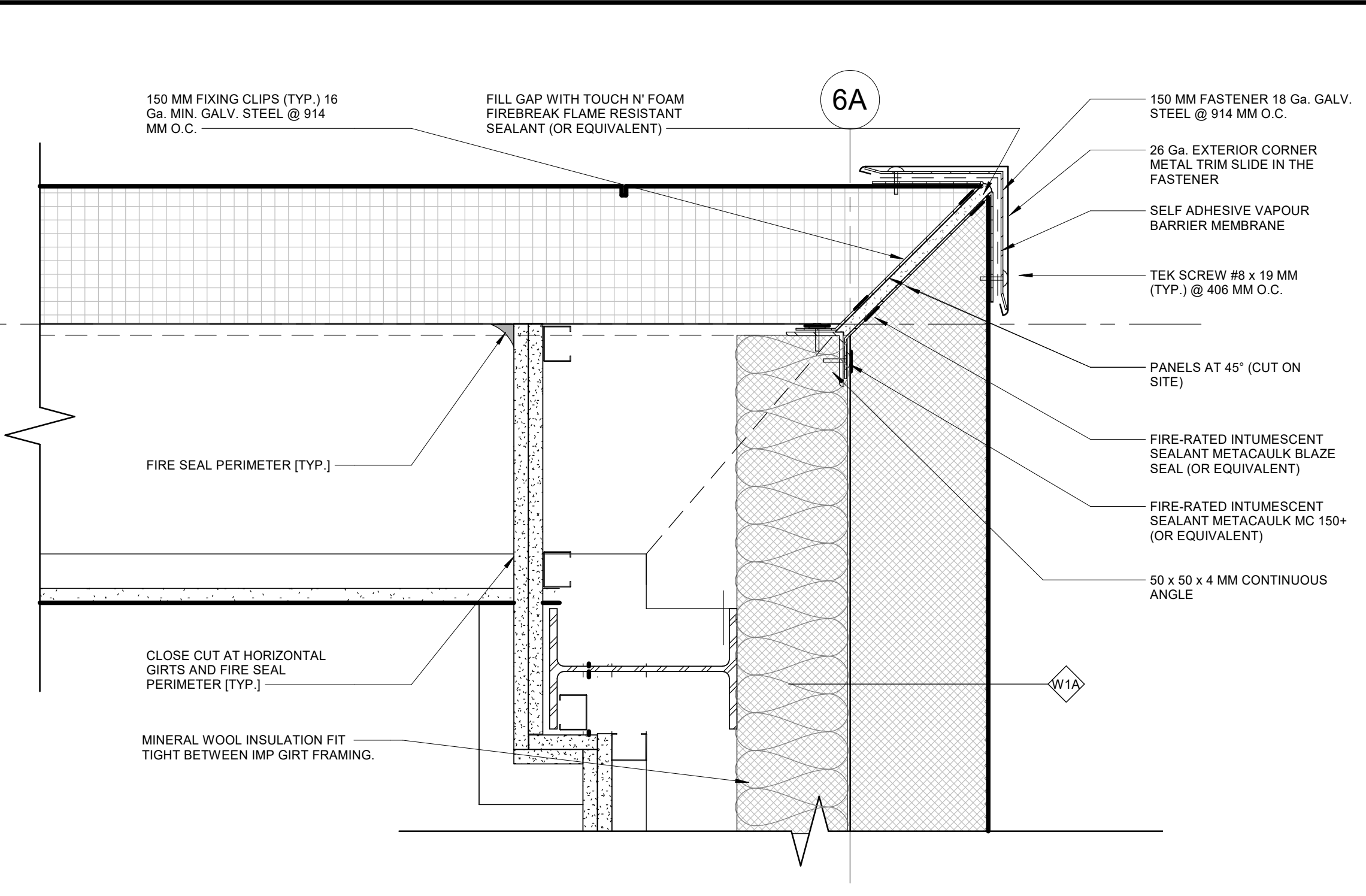
3 WALL SECTION AT EAST WALL
A511 Scale: 1 : 20



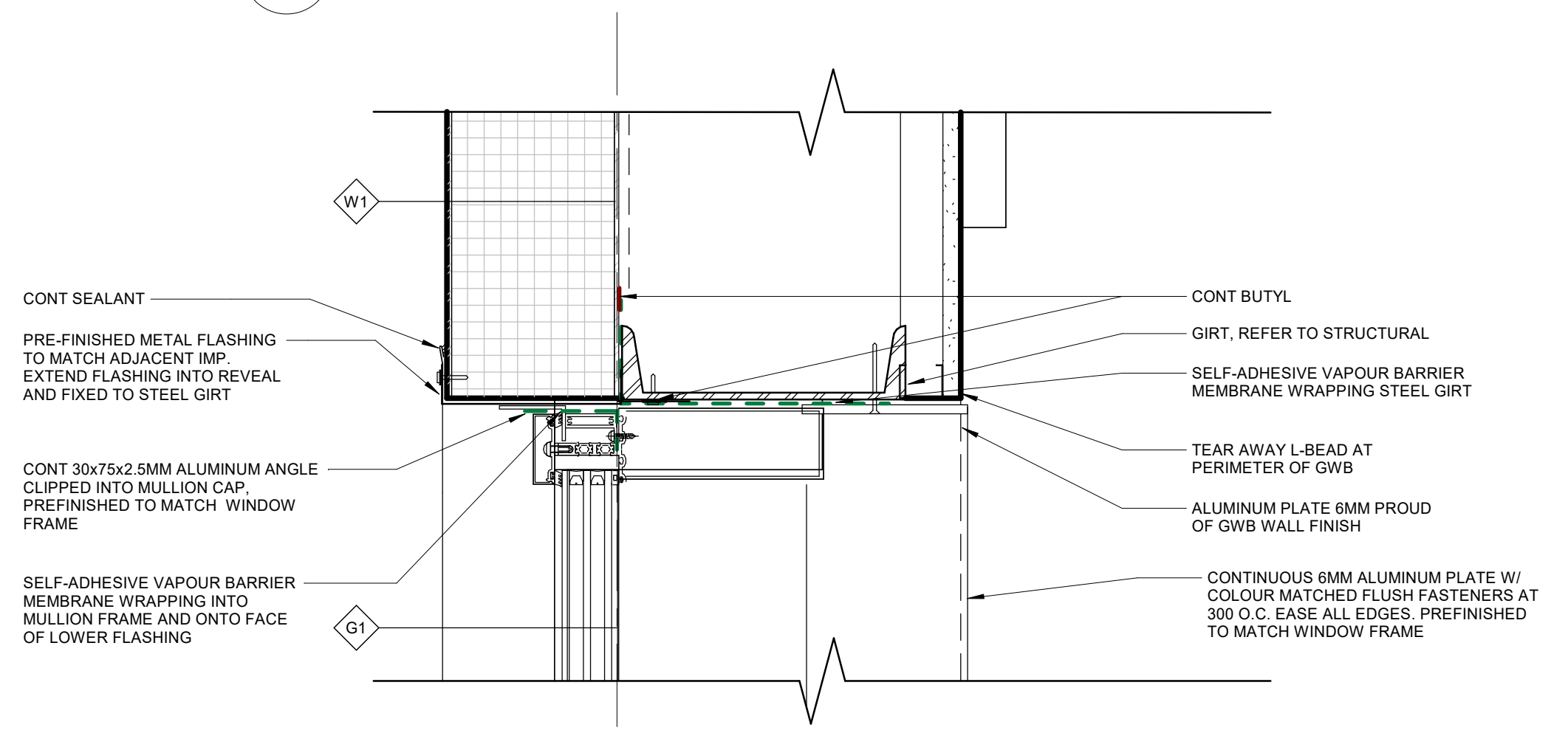
1 PLAN DETAIL AT NORTHWEST CORNER
A520 Scale: 1 : 5



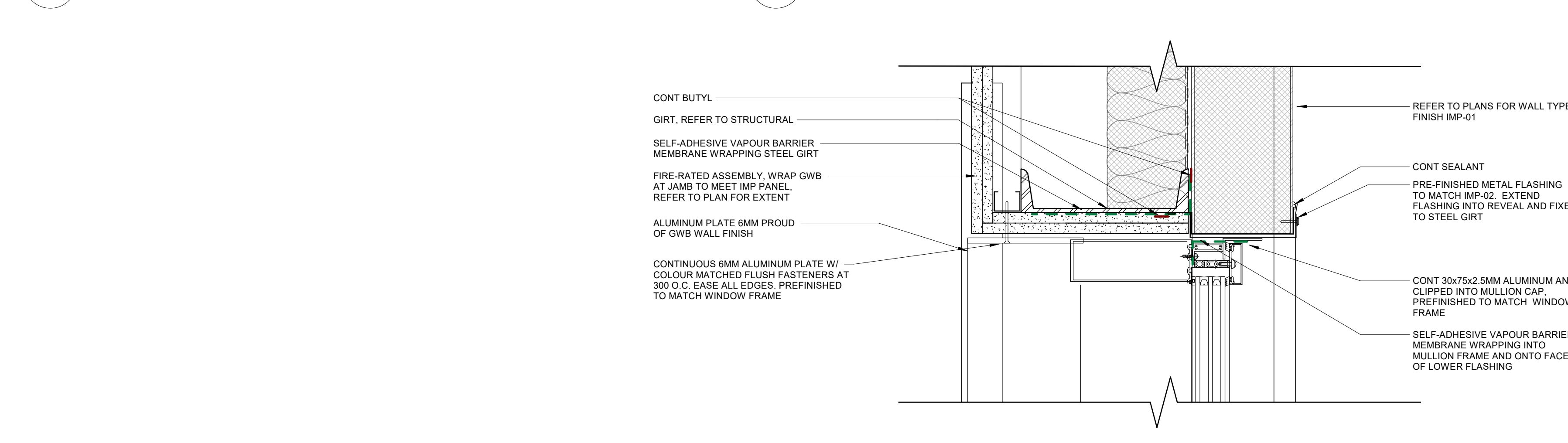
2 PLAN DETAIL AT FIRE RATED GLAZING PARTITION
A520 Scale: 1 : 5



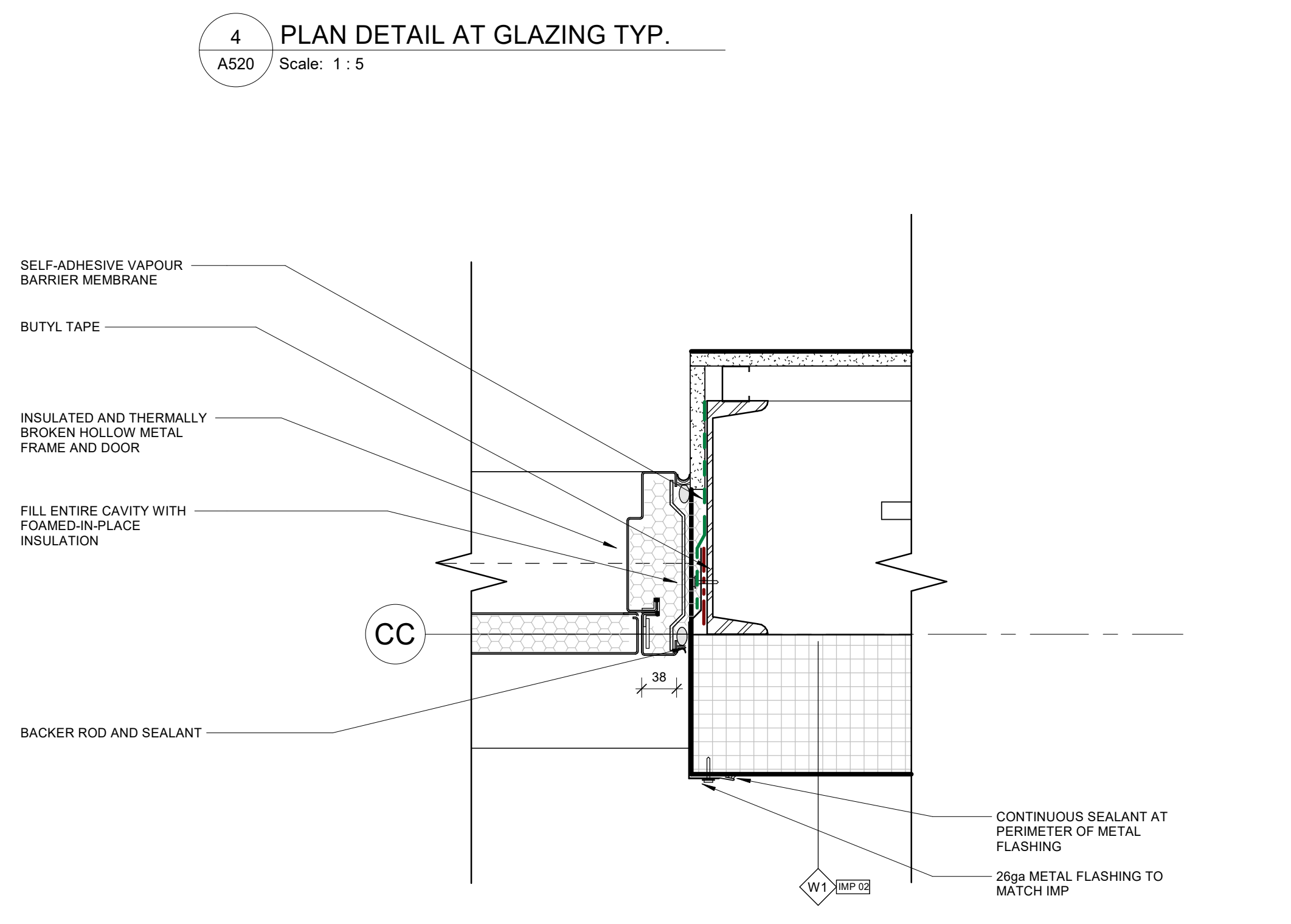
3 PLAN DETAIL AT NORTHEAST CORNER
A520 Scale: 1 : 5



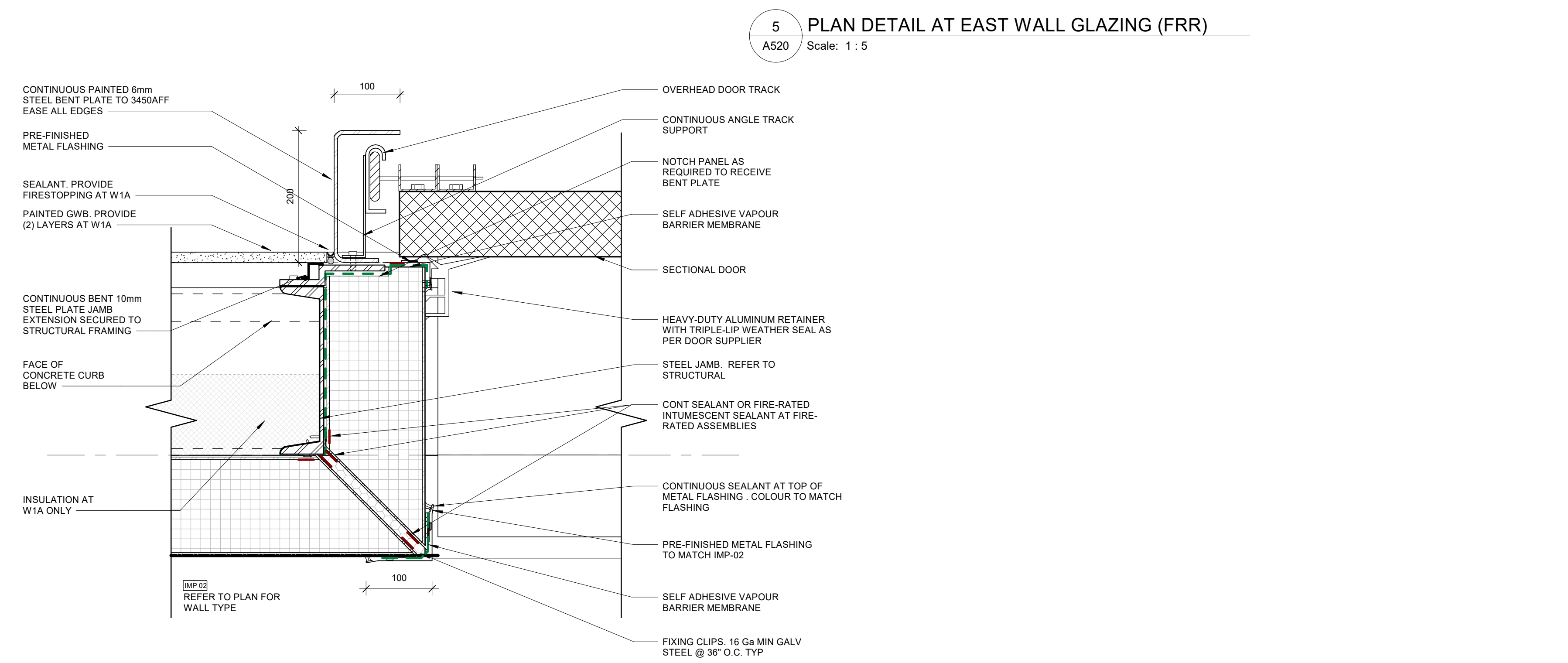
4 PLAN DETAIL AT GLAZING TYP.
A520 Scale: 1 : 5



5 PLAN DETAIL AT EAST WALL GLAZING (FRR)
A520 Scale: 1 : 5



6 PLAN DETAIL AT HOLLOW METAL DOOR
A520 Scale: 1 : 5



7 PLAN DETAIL AT SECTIONAL DOOR JAMB
A520 Scale: 1 : 5

No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

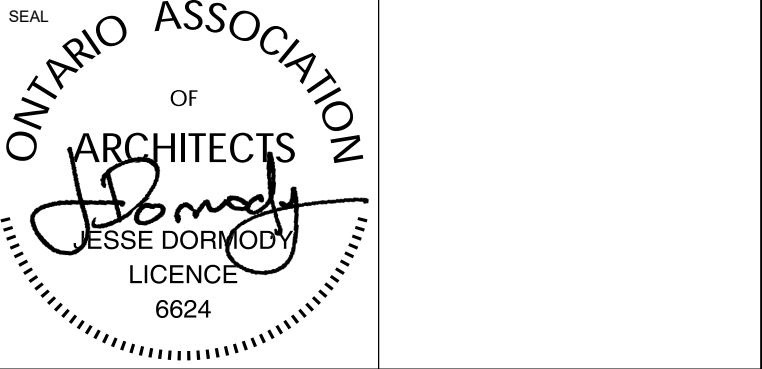
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
PLAN DETAILS - ENVELOPE

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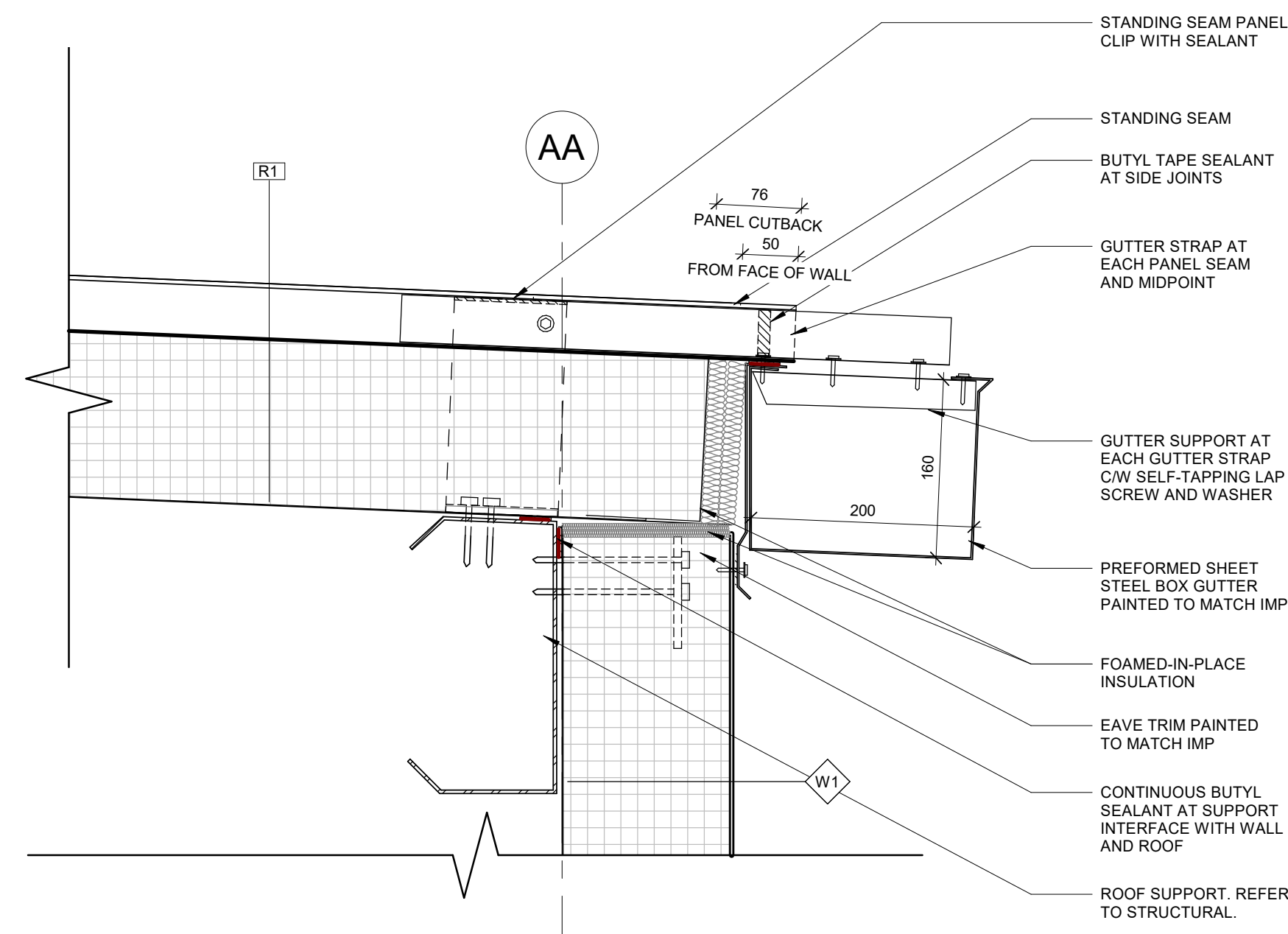
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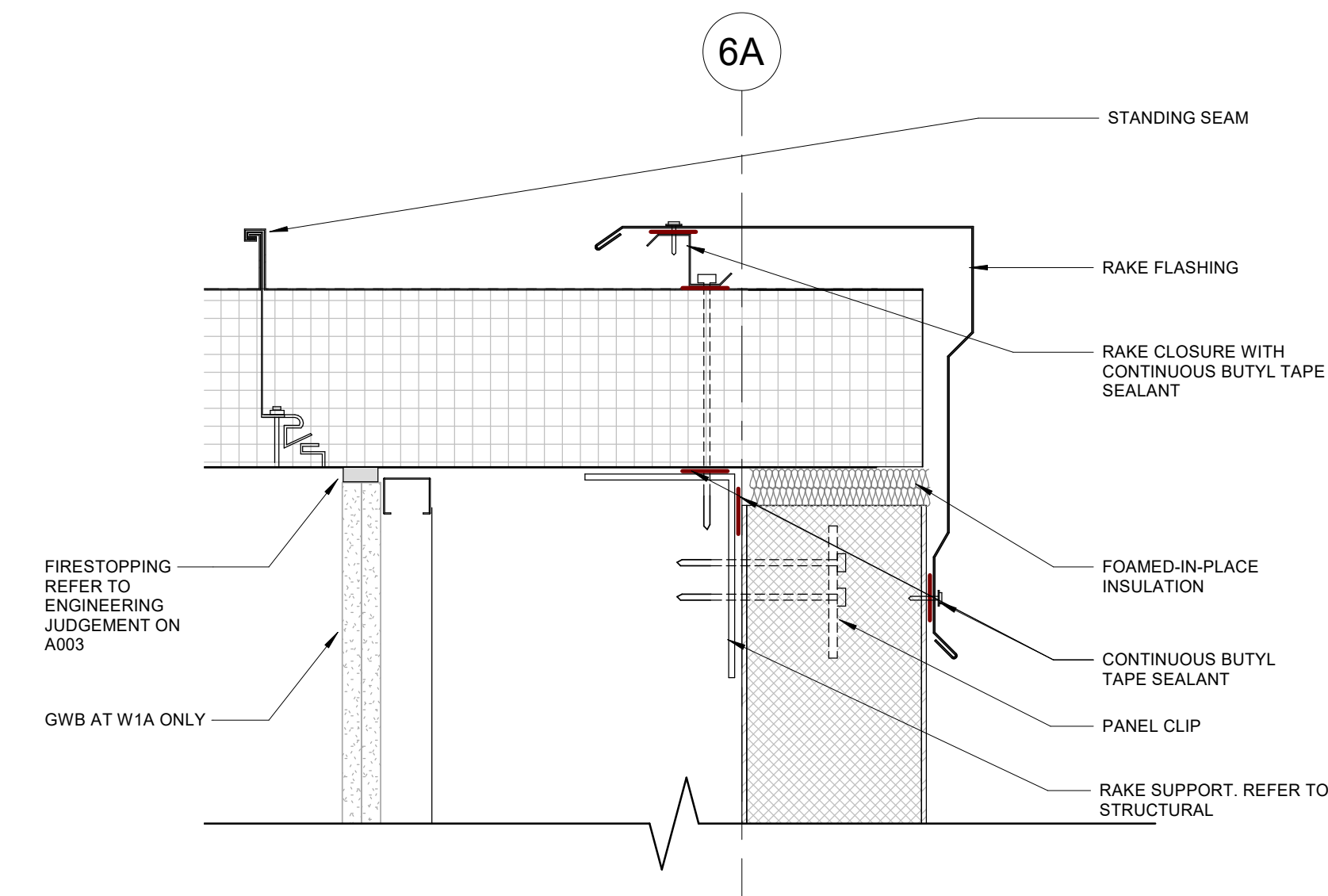
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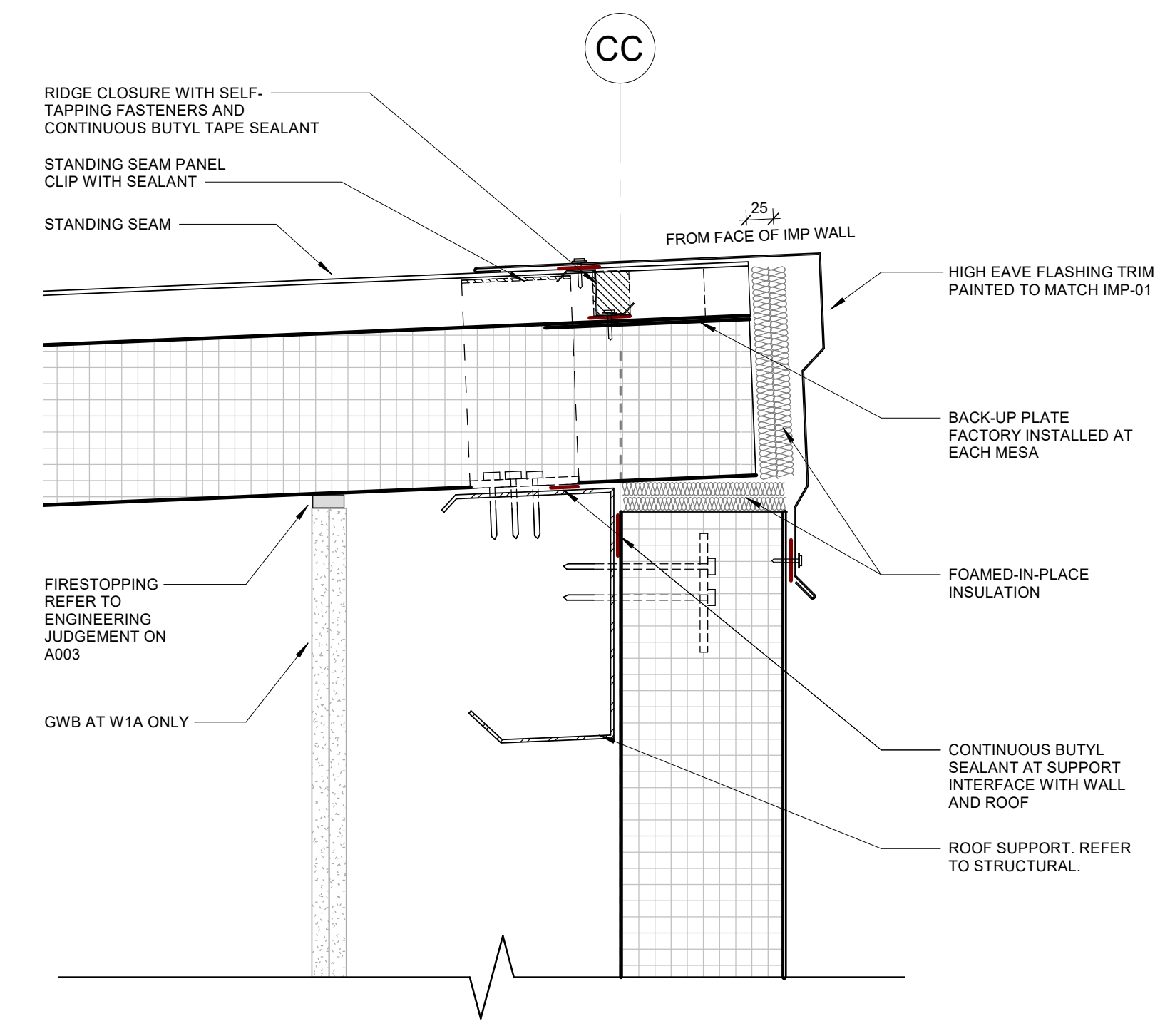
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DATE:	05/26/20	A520
PROJECT NO.:	2301	
DRAWN BY:	Author	
CHECKED BY:	Checker	



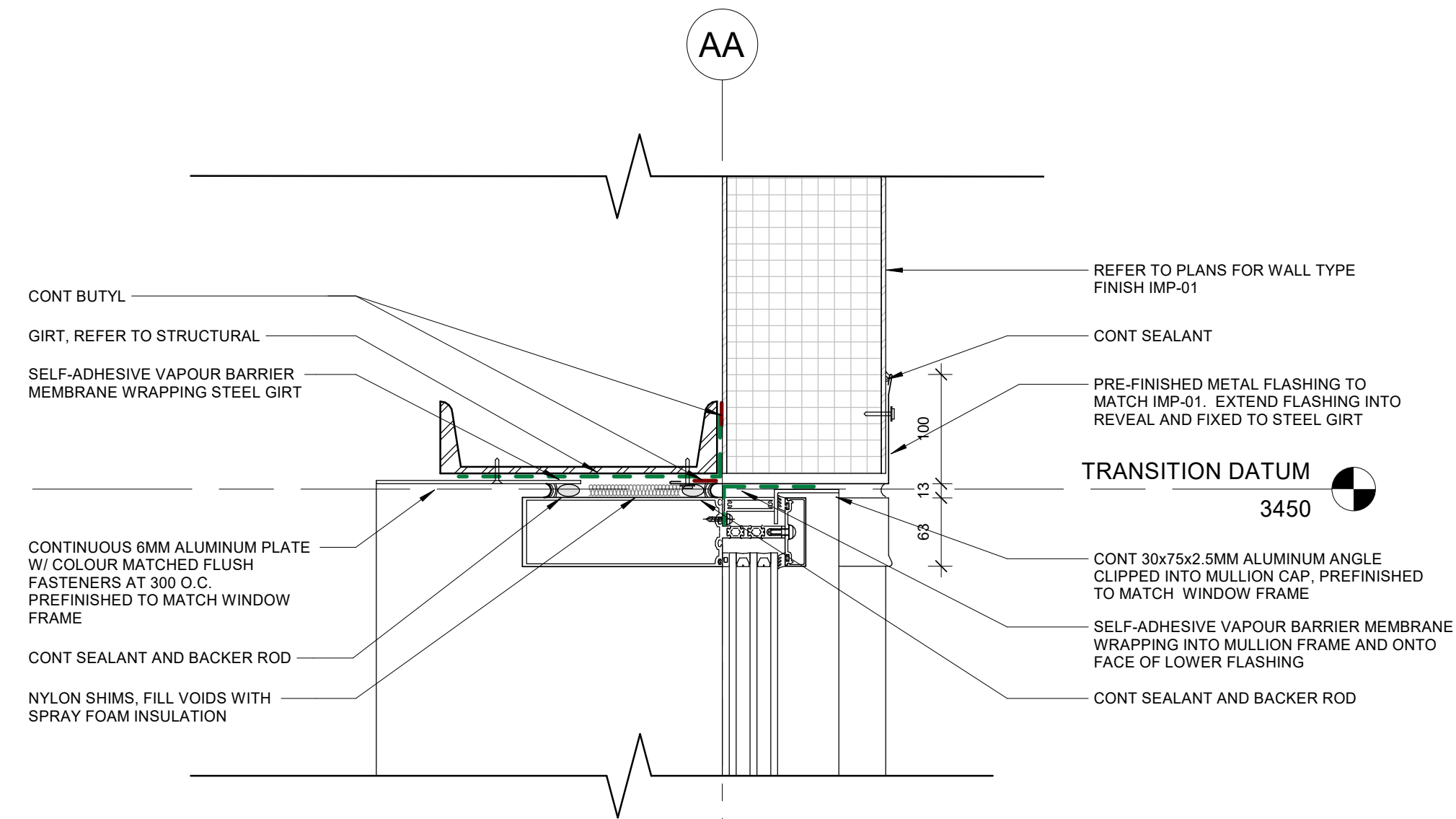
1 SECTION DETAIL AT LOW EAVE
A525 Scale: 1 : 5



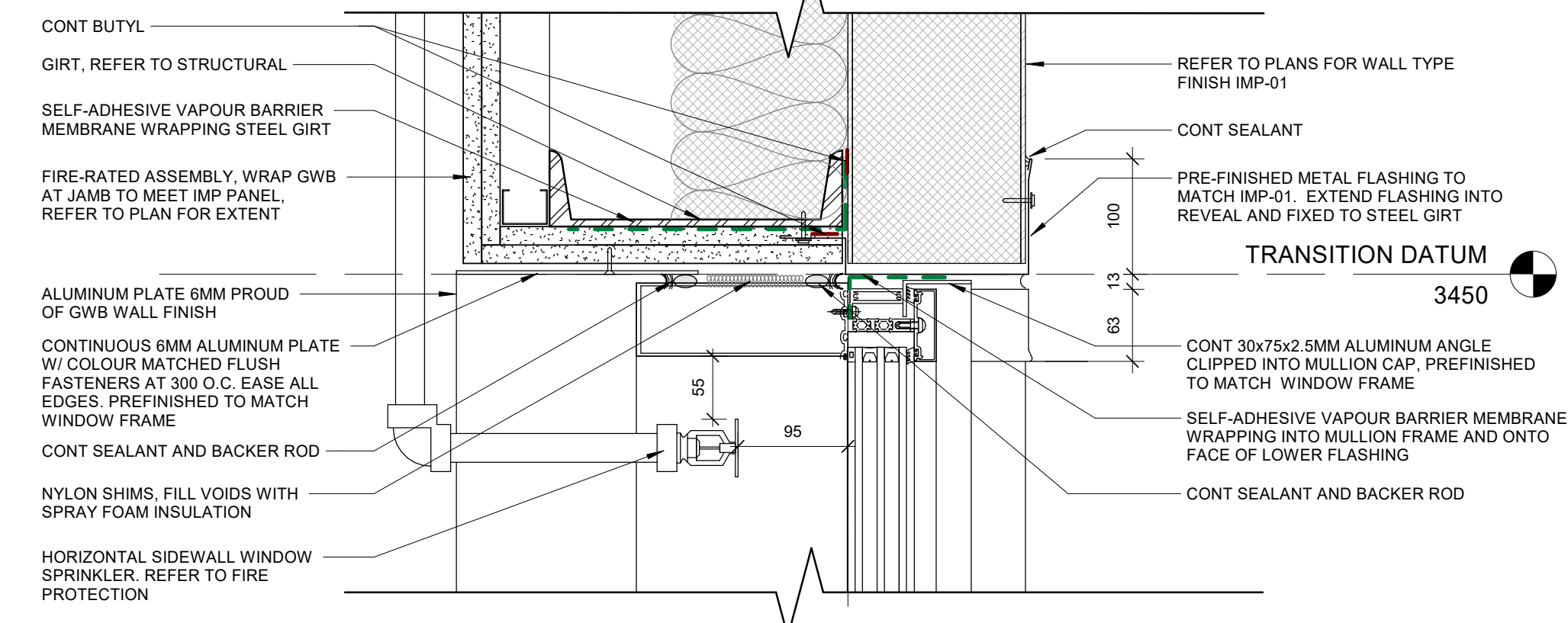
2 SECTION DETAIL AT RAKE WALL
A525 Scale: 1 : 5



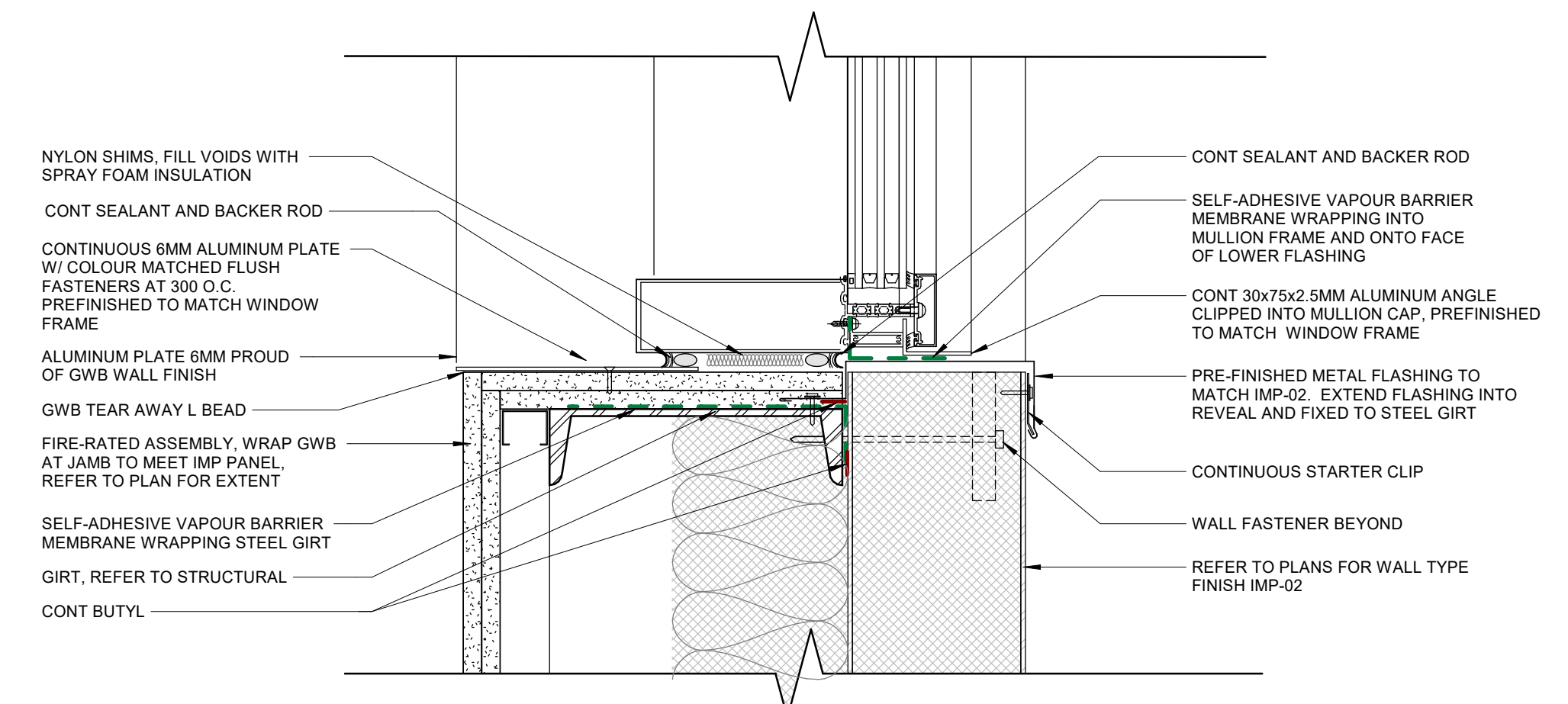
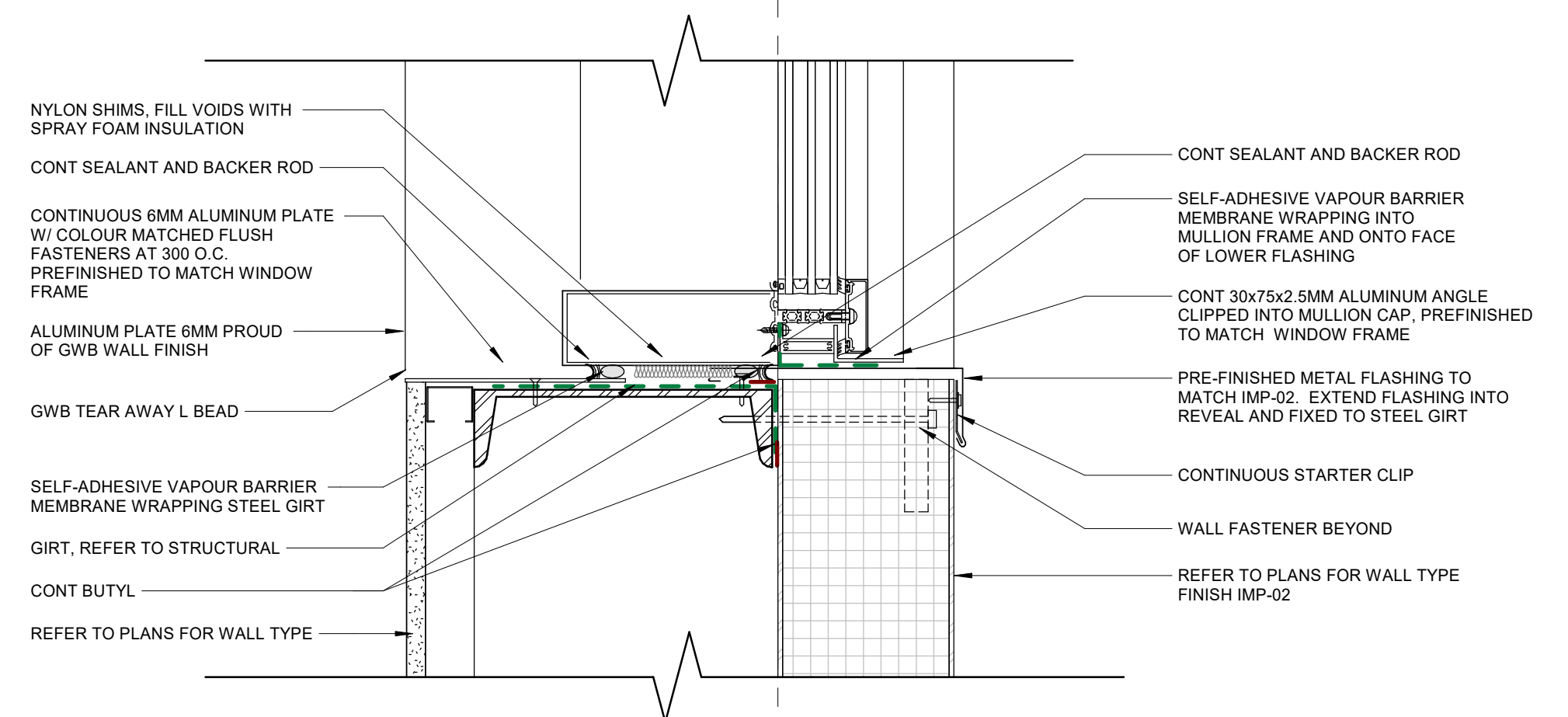
3 SECTION DETAIL AT HIGH EAVE
A525 Scale: 1 : 5



4 SECTION DETAIL AT GLAZING (TYP)
A525 Scale: 1 : 5



5 SECTION DETAIL AT GLAZING - EAST WALL
A525 Scale: 1 : 5



No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

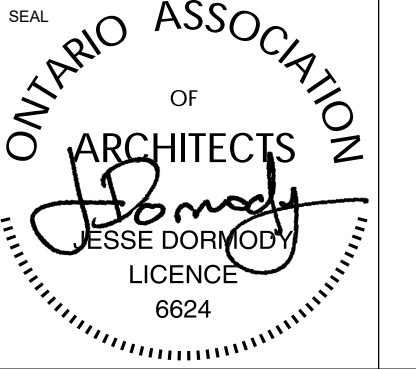
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
SECTION DETAILS - ENVELOPE

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DATE:	05/26/20	A525
PROJECT NO.:	2301	
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CHECKED BY:	Checker	

No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

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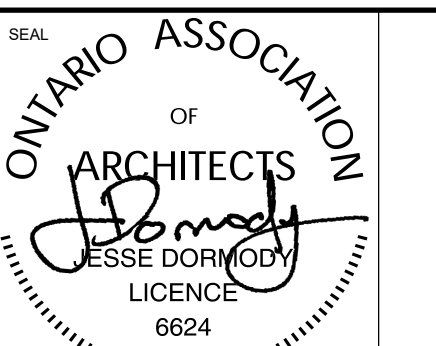
PROJECT
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE
SECTION DETAILS - ENVELOPE

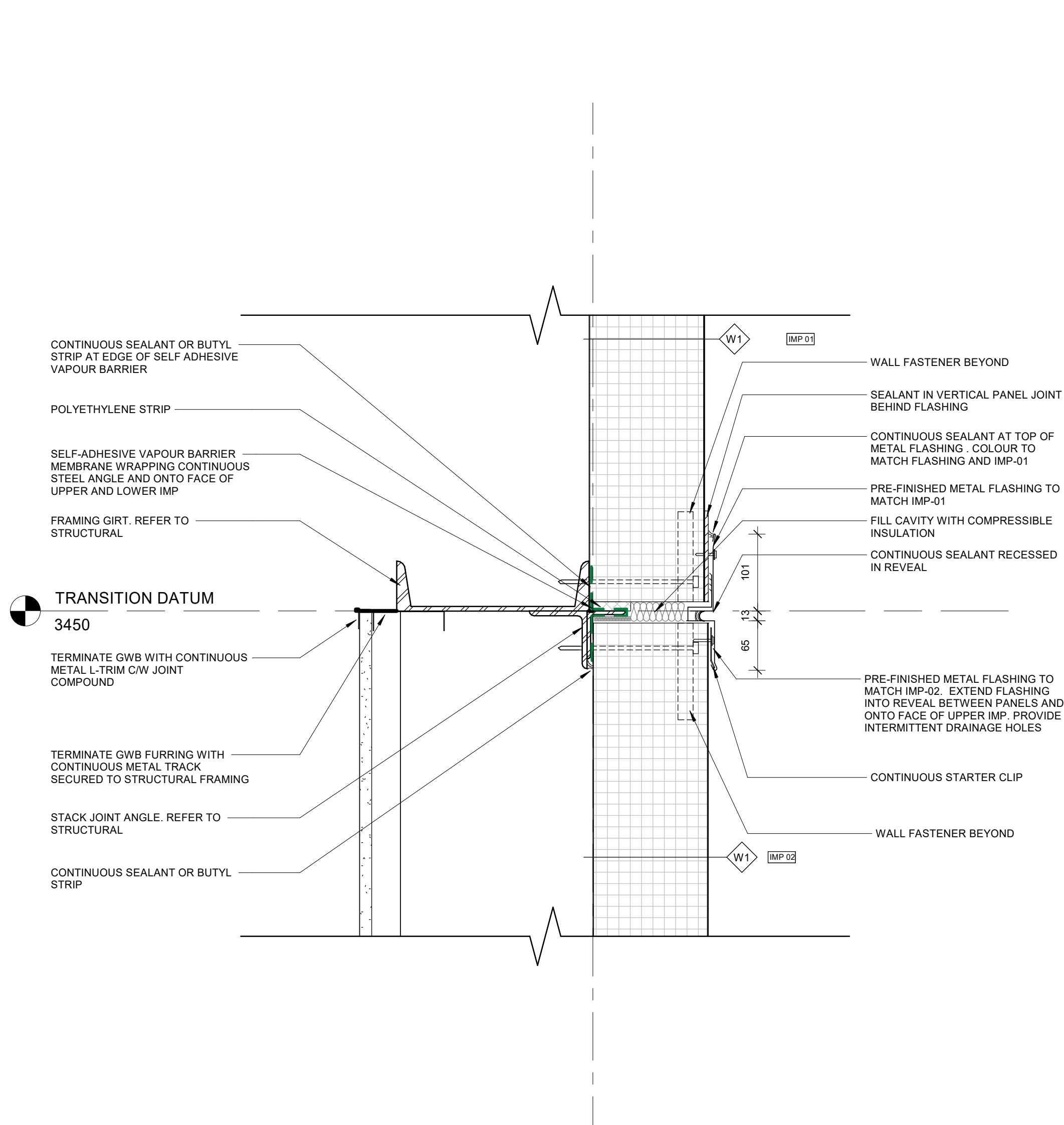
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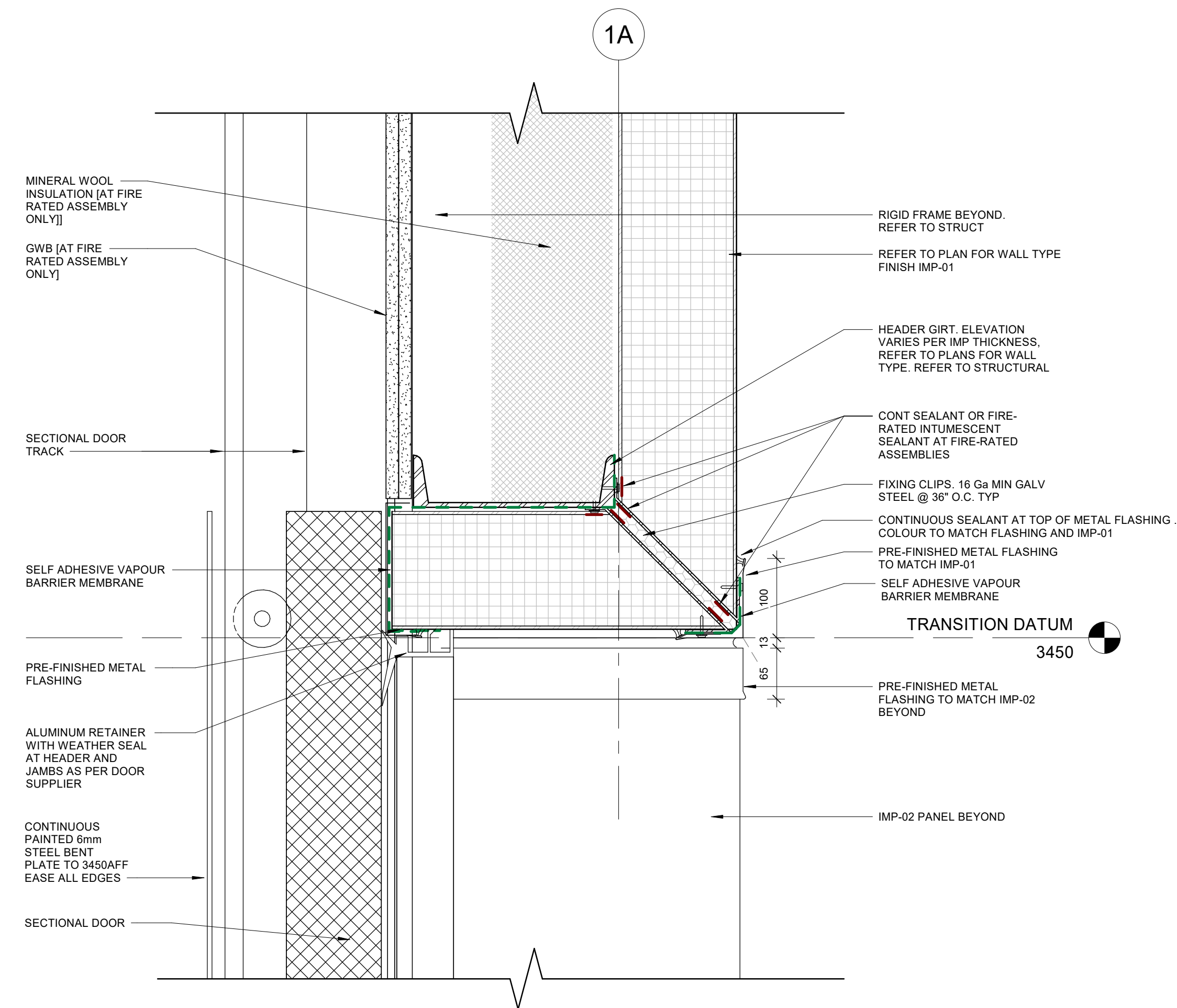


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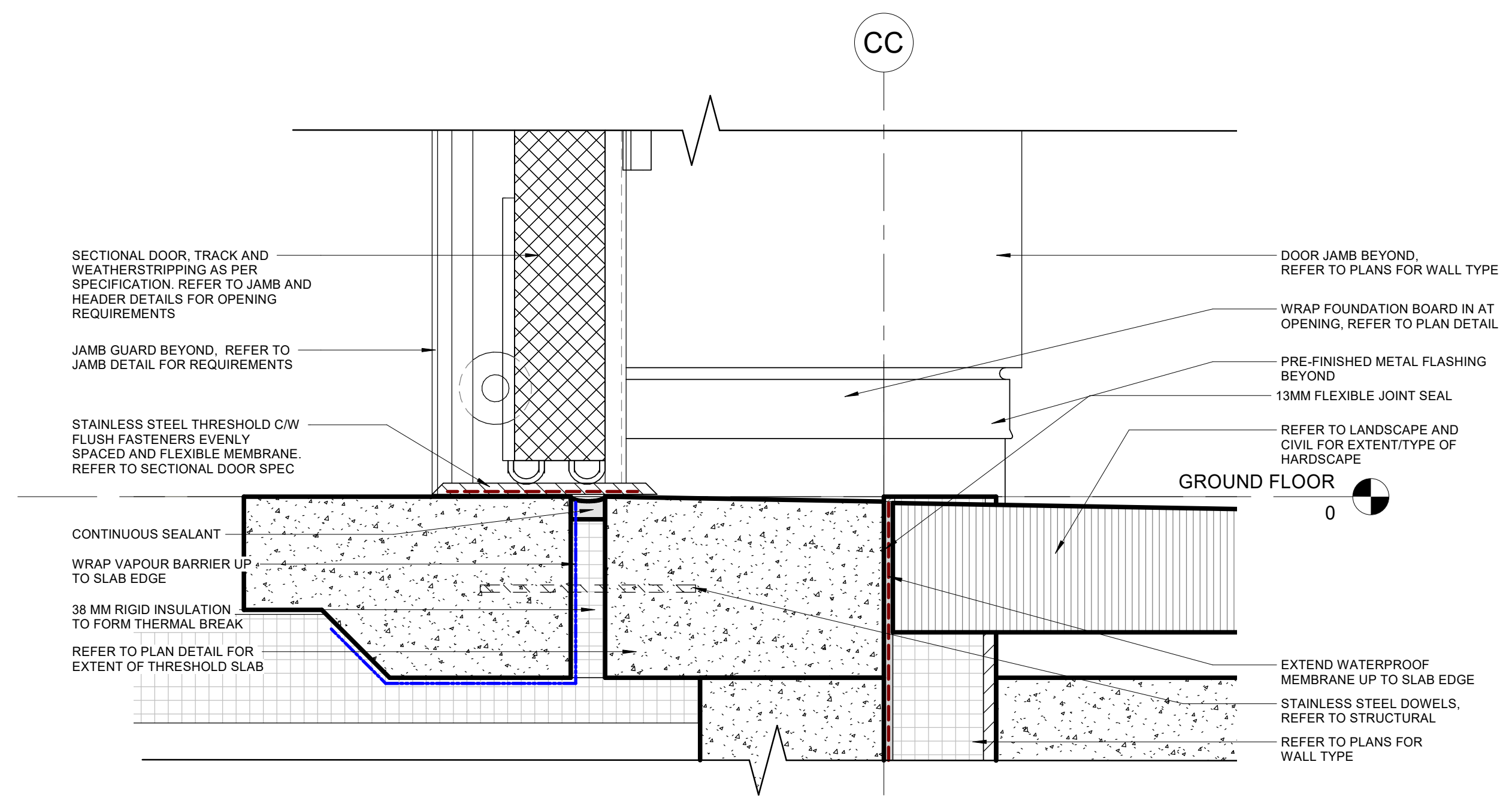
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PROJECT NO.:	2301		
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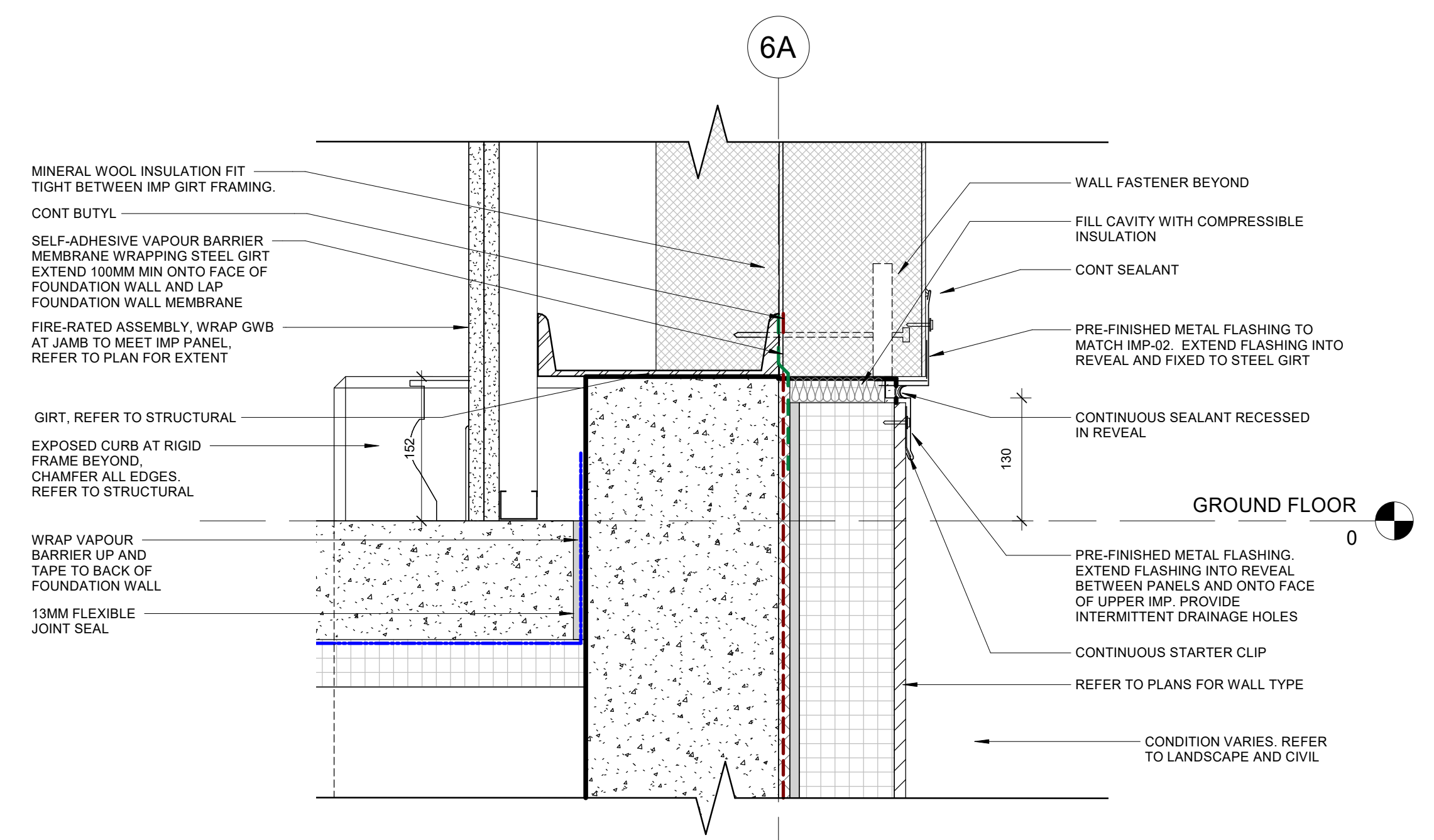
1 SECTION DETAIL AT IMP PANEL TRANSITION
A526 Scale: 1 : 5



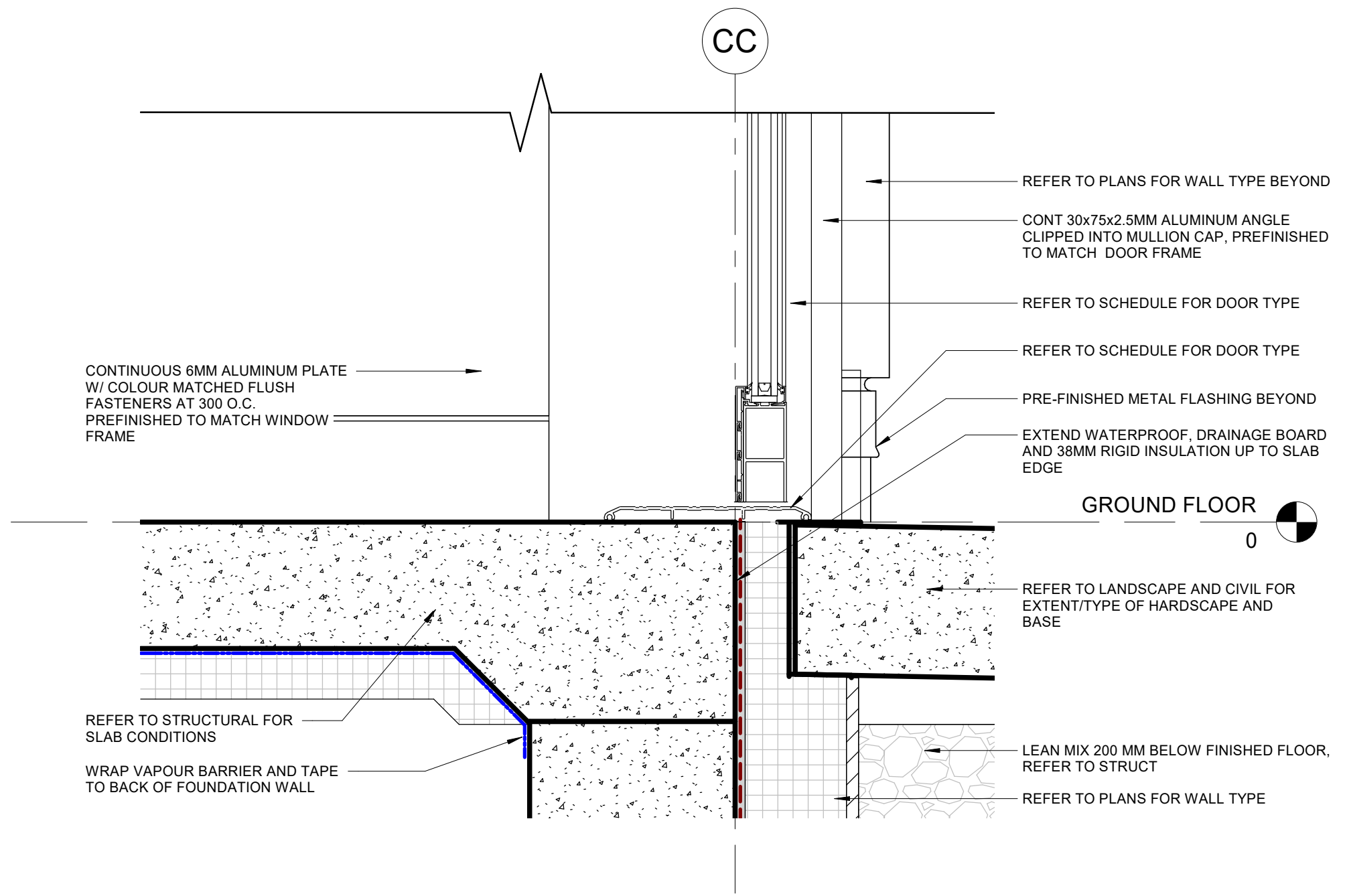
2 SECTION DETAIL AT SECTIONAL DOOR HEADER
A526 Scale: 1 : 5



1 SECTION DETAIL AT SECTIONAL DOOR
A527 Scale: 1 : 5



2 SECTION DETAIL AT CURB - EAST WALL
A527 Scale: 1 : 5



3 SECTION DETAIL AT ENTRANCE
A527 Scale: 1 : 5

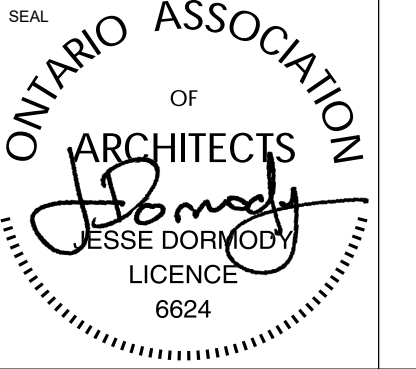
No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

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University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
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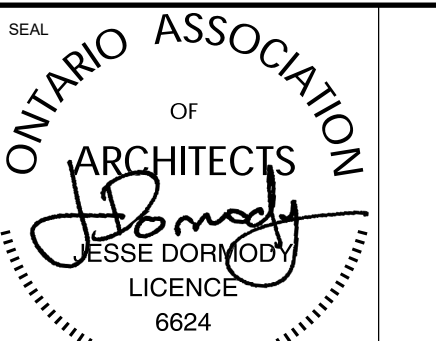
PROJECT
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE
ENTRANCE CANOPY DETAILS

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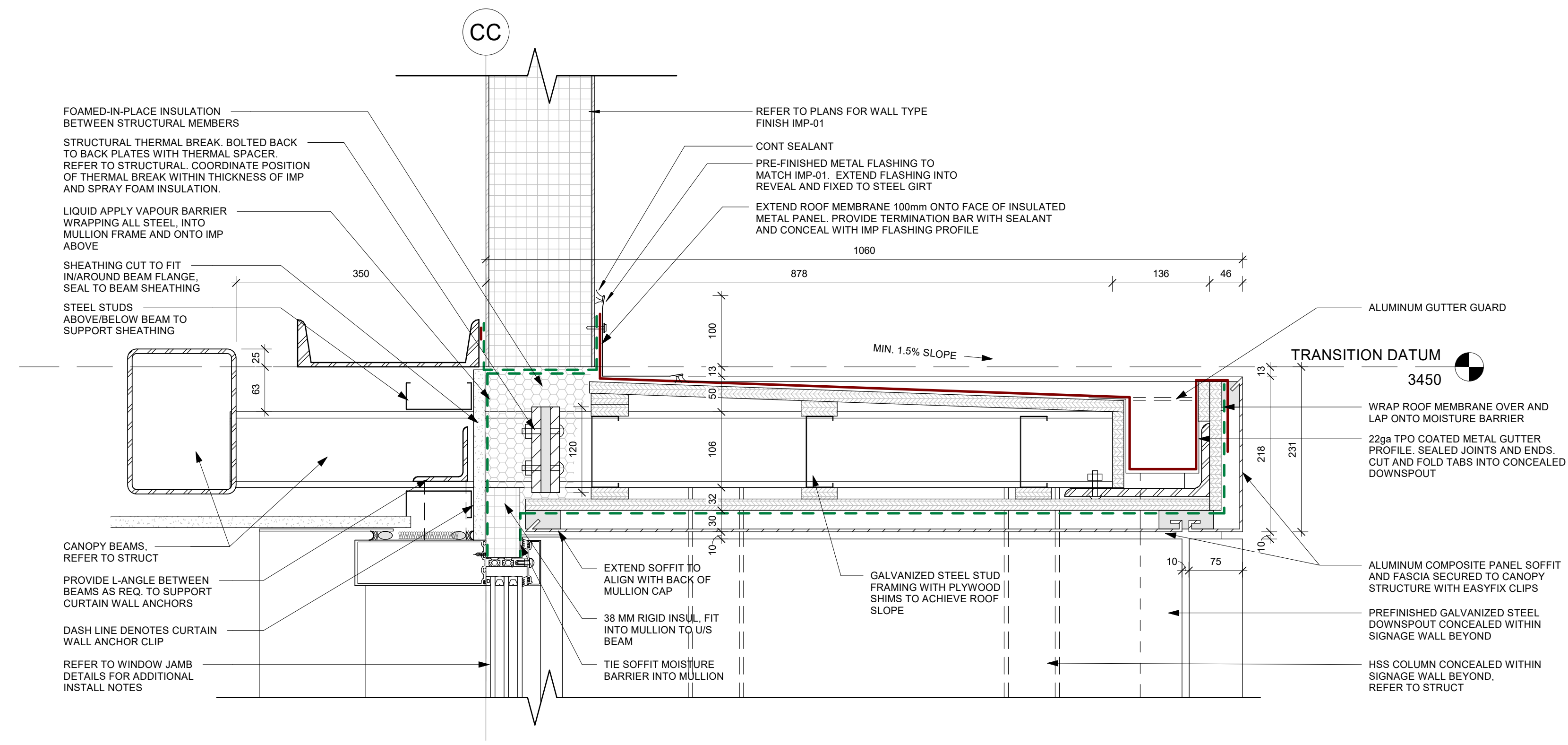
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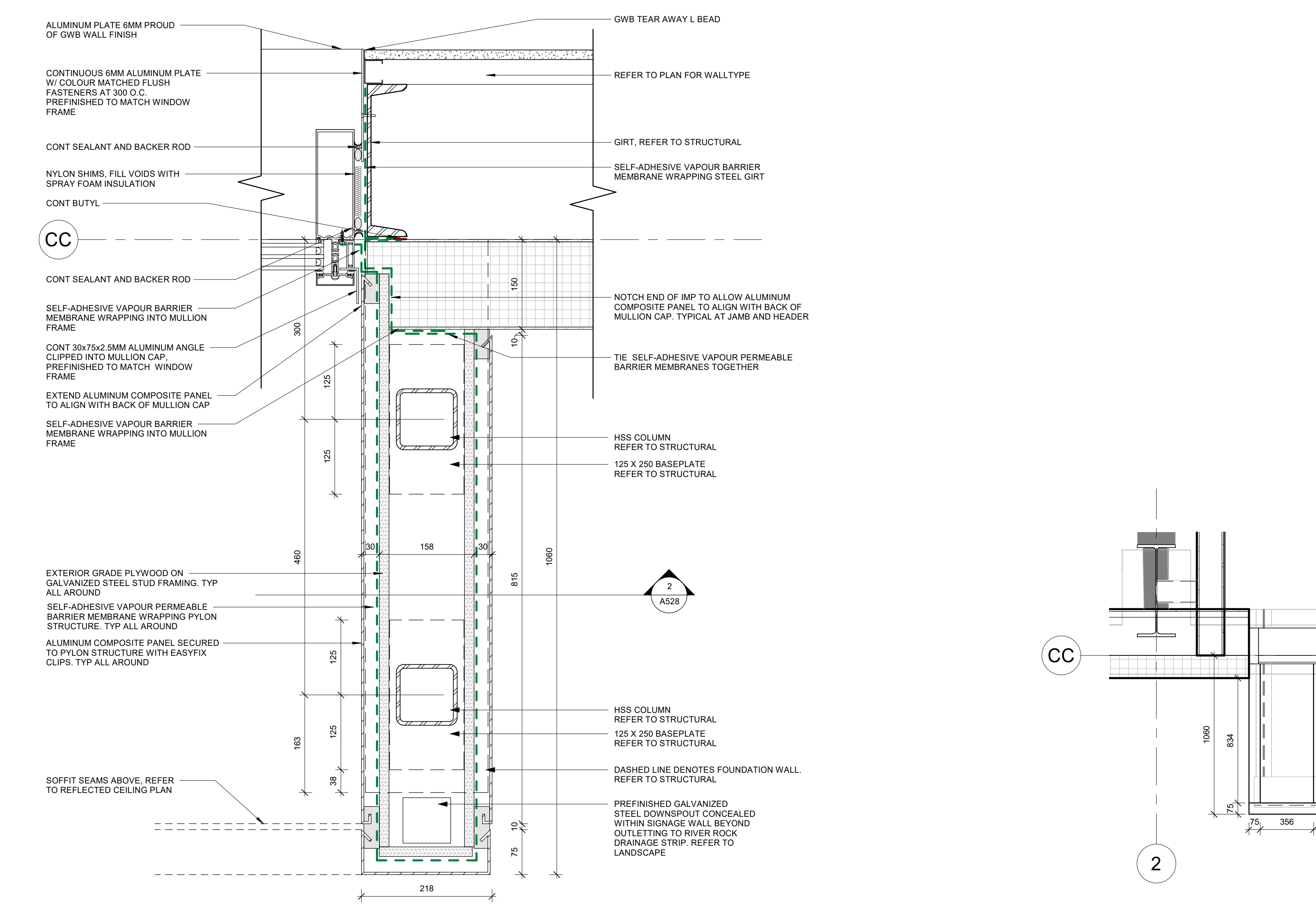
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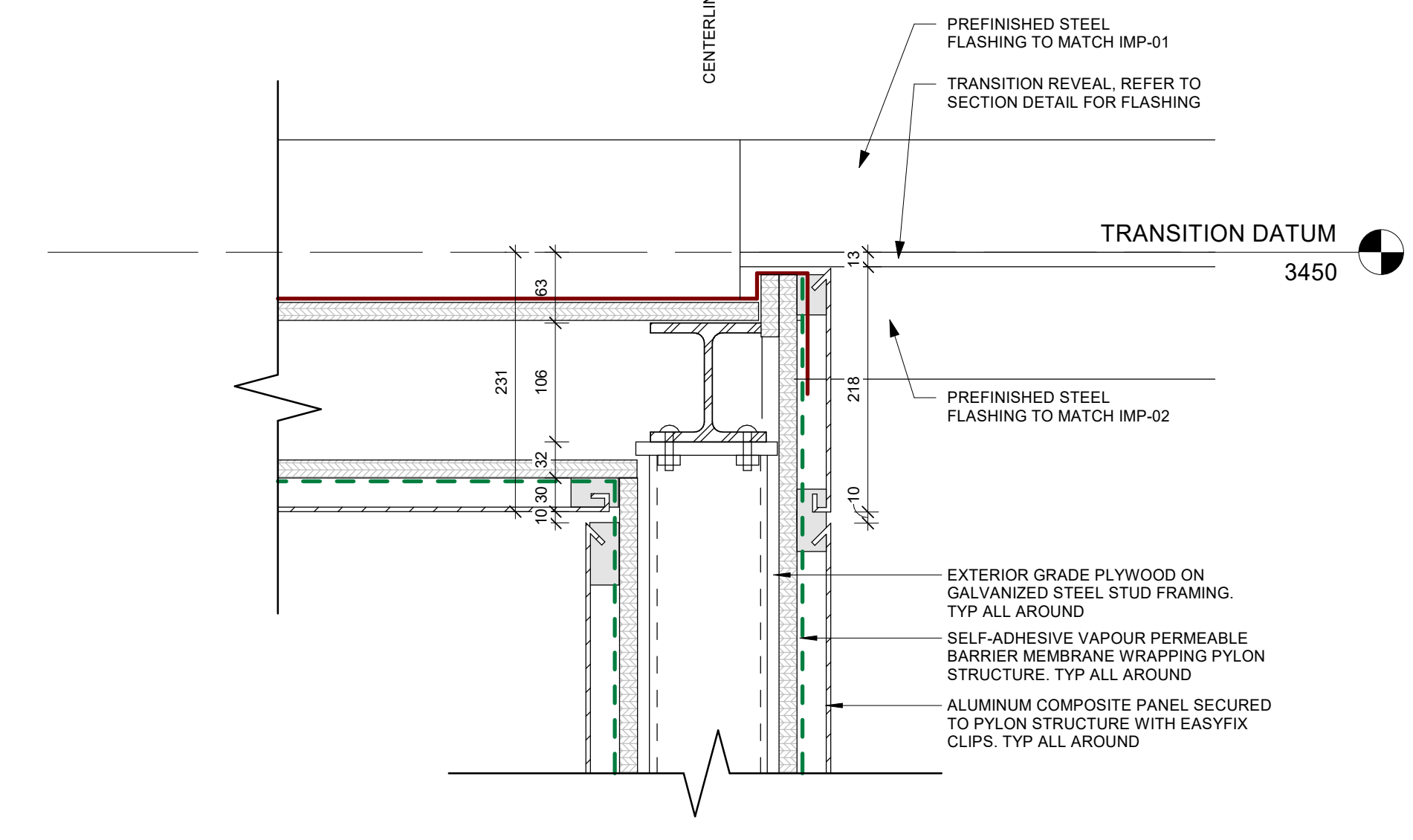
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DATE: 05/26/20	A528
PROJECT NO: 2301	
DRAWN BY: AM	
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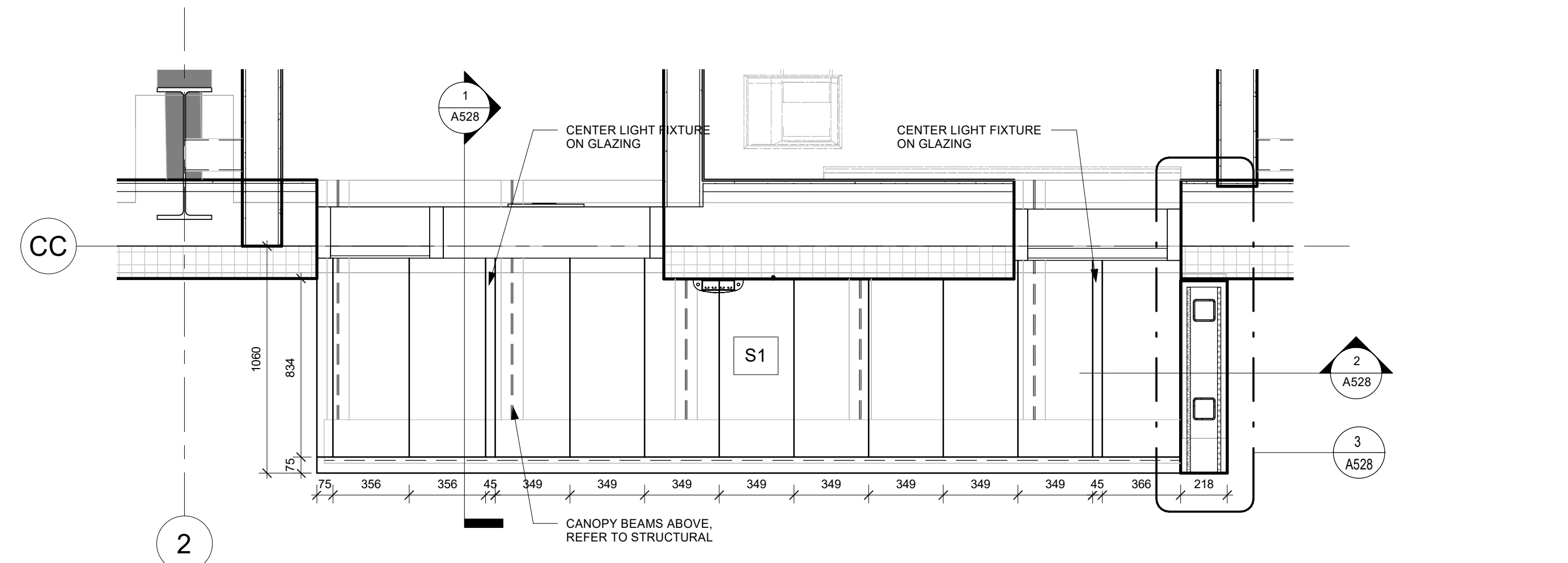
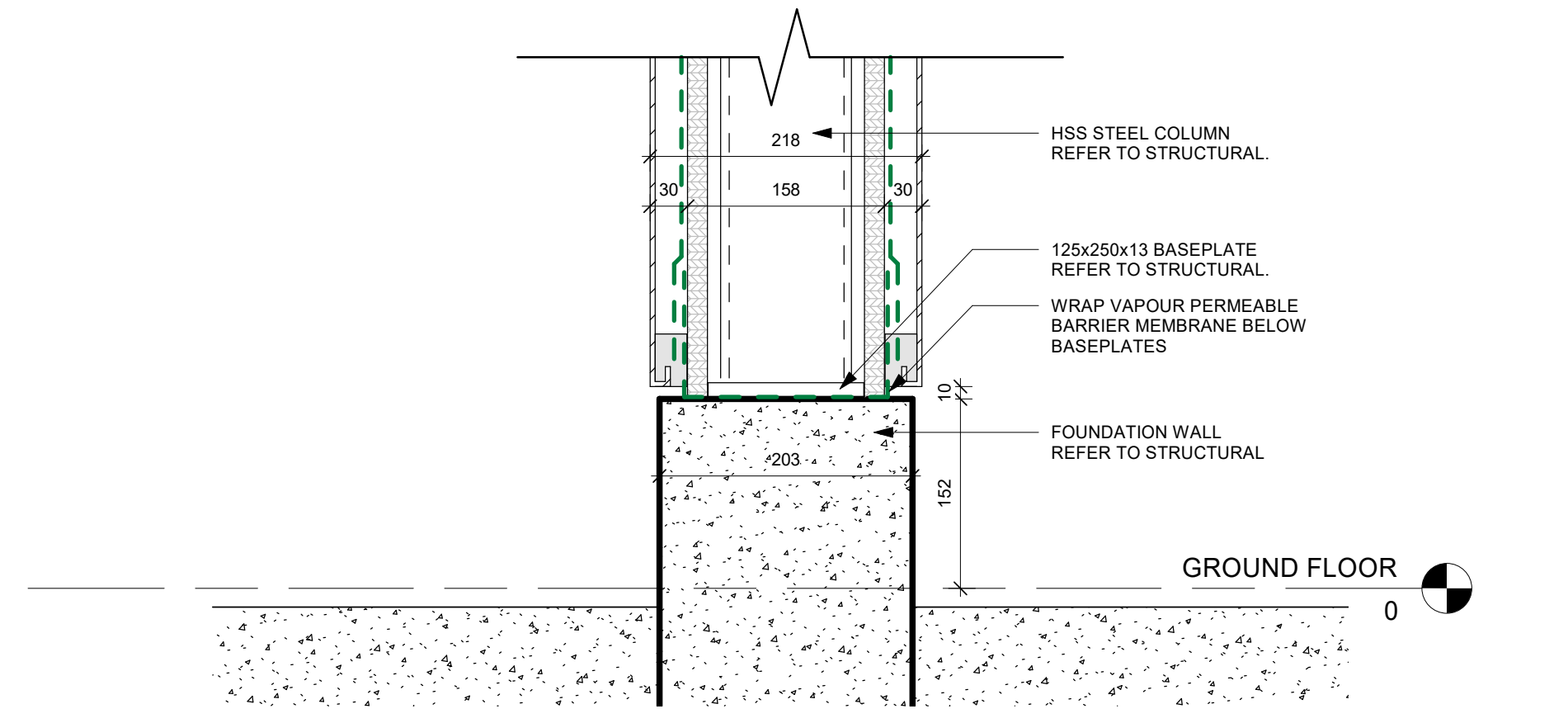
1 SECTION DETAIL AT ENTRY CANOPY
A528 Scale: 1 : 5



3 PLAN DETAIL AT ENTRY CANOPY SIGNAGE WALL
A528 Scale: 1 : 5



2 SECTION DETAIL AT ENTRY CANOPY SIGNAGE WALL
A528 Scale: 1 : 5



4 ENTRY CANOPY REFLECTED CEILING PLAN
A528 Scale: 1 : 20

T.O. MECH.ENCL. 8240

T.O. MECHANICAL ENCLOSURE TO BE CONFIRMED UPON SELECTION OF MAKE-UP AIR UNIT

CONTINUOUS GALVANIZED STEEL CHANNEL 50 x 100 x 6 MM BOLTED TO POST

22 MM GALVANIZED HEAVY GAUGE Z-GIRT SECURED TO POST @ 450 MM O.C.

GALVANIZED STEEL 50 x 50 x 6 MM HSS POST. HEIGHT VARIES TO ACCOMMODATE ROOF SLOPE. REFER TO ELEVATION.

20 ga 22 MM DEEP PERFORATED CORRUGATED ALUMINUM PANEL SECURED TO Z-GIRTS @ 150 MM O.C. PANEL PERFORATED TO 23% OPENNESS

GALVANIZED STEEL ANGLE (100 x 100 x 6 M) OUTRIGGER SECURED TO POSTS AND ALUMINUM STRUT

CONTINUOUS GALVANIZED STEEL CHANNEL 50 x 100 x 6 MM BOLTED TO HSS POST AND BOLTED TO ALUMINUM STRUTS.

GALVANIZED PLATE WELDED TO CHANNEL AT OUTRIGGER LOCATIONS

ALUMINUM STRUT SECURED TO STANDING SEAM CLAMP ACROSS (3) SEAMS

ENGINEERED STANDING SEAM CLAMP TO IMP STANDING SEAM RIBS

ROOF HATCH OUTLINE OF CUSTOM CURB. SECURE TO IMP WITH TRIPLE BEAD TAPE SEALANT AND PANCAKE HEAD FASTENERS PER IMP MANUFACTURER

INSULATED GALVANIZED STEEL MECHANICAL ROOF CURBS BELOW. INSTALL CURB IN SEQUENCE WITH ROOF PANELS AS PER IMP MANUFACTURERS STANDARD DETAILS / INSTALLATION REQUIREMENTS

OUTLINE OF ROOF CURB FLANGE SHOWN DASHED. SECURE TO IMP WITH TRIPLE BEAD TAPE SEALANT AND PANCAKE HEAD FASTENERS PER IMP MANUFACTURER

TYP AT CURBS: FIELD REMOVE PANEL RIBS AT UPSLOPE SIDE OF CURBS AND HANDRIMP AND TOOL SEAM AT DOWNSLOPE SIDE AND NOTCH CURB FLANGE OVER RIBS AND SEAL.

1 SECTION DETAIL AT MECHANICAL ENCLOSURE

A530 Scale: 1 : 5

2 ENLARGED PLAN - ROOF TOP ENCLOSURE

A530 Scale: 1 : 50

GALVANIZED STEEL OUTRIGGER BELOW SECURED TO STRUT AND CHANNEL

ALUMINUM STRUT BELOW

STANDING SEAM CLAMP BELOW

STANDING SEAM BELOW

GALVANIZED STEEL HSS POST (50 x 50 x 6 MM) SECURED TO CONT. GALVANIZED STEEL CHANNELS

22 MM GALVANIZED HEAVY DUTY Z-GIRT SECURED TO POST

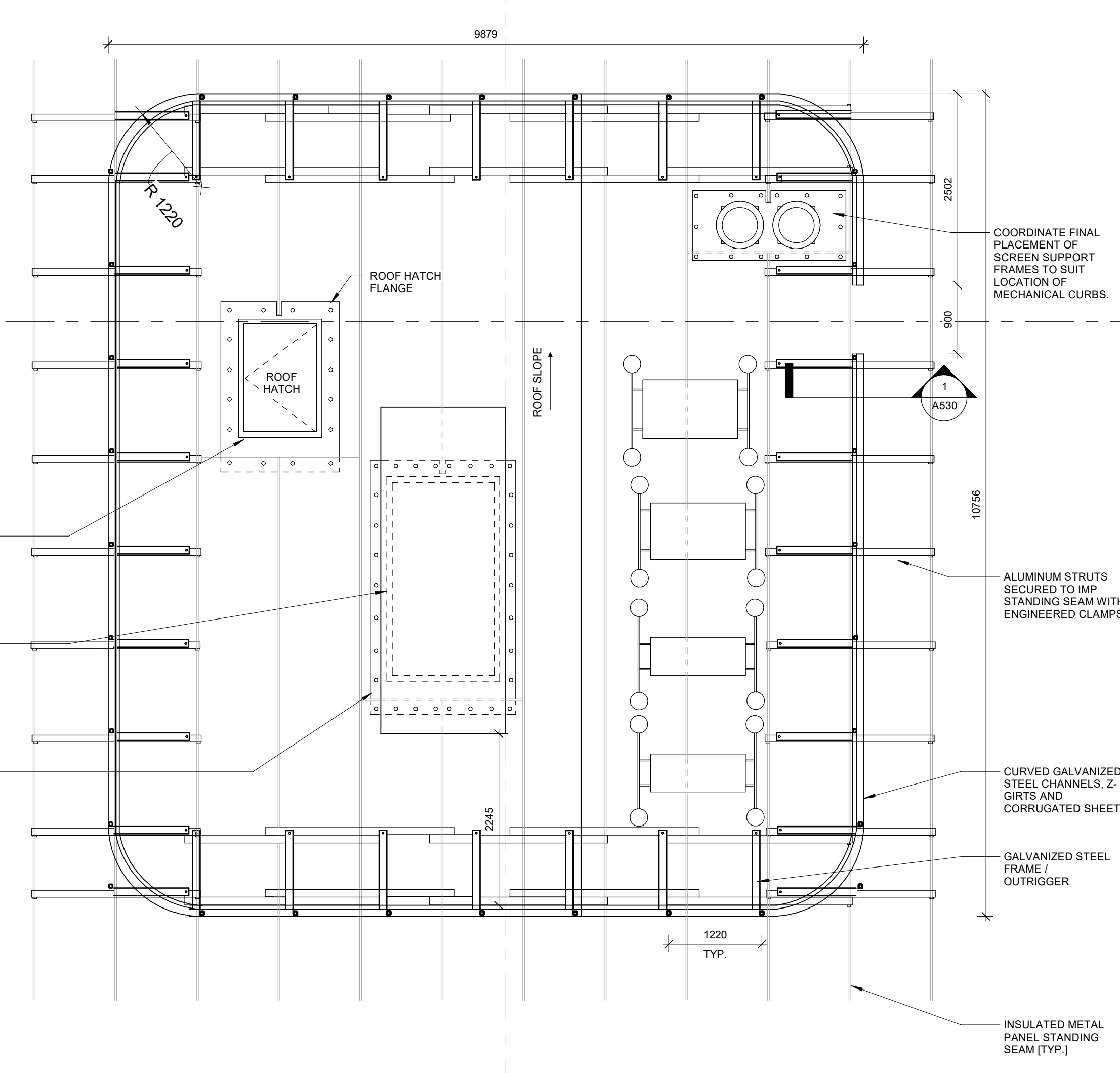
20 Ga 22 MM DEEP PAINTED PERFORATED CORRUGATED ALUMINUM PANEL

CONTINUOUS GALVANIZED STEEL CHANNEL 50 x 100 x 6 MM BOLTED TO POST

LAP PANEL AT ENDS MIN. 200 MM

3 PLAN DETAIL AT MECHANICAL ENCLOSURE

A530 Scale: 1 : 5



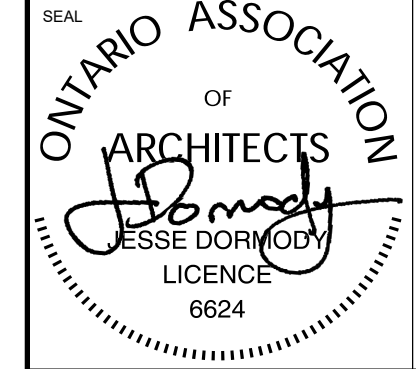
No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
ROOF TOP ENCLOSURE DETAILS

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DATE:	05/26/20		
PROJECT NO.:	2301		
DRAWN BY:	Author		
CHECKED BY:	Checker		

No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

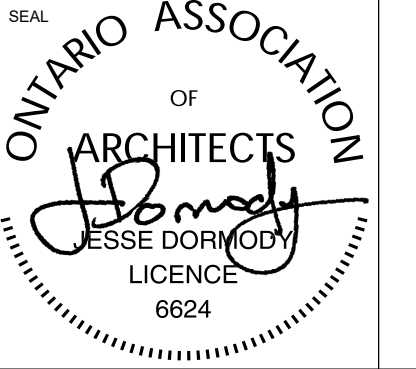
CLIENT
 University of Toronto Mississauga

PROJECT
 Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

TITLE
 PLAN DETAILS - INTERIOR

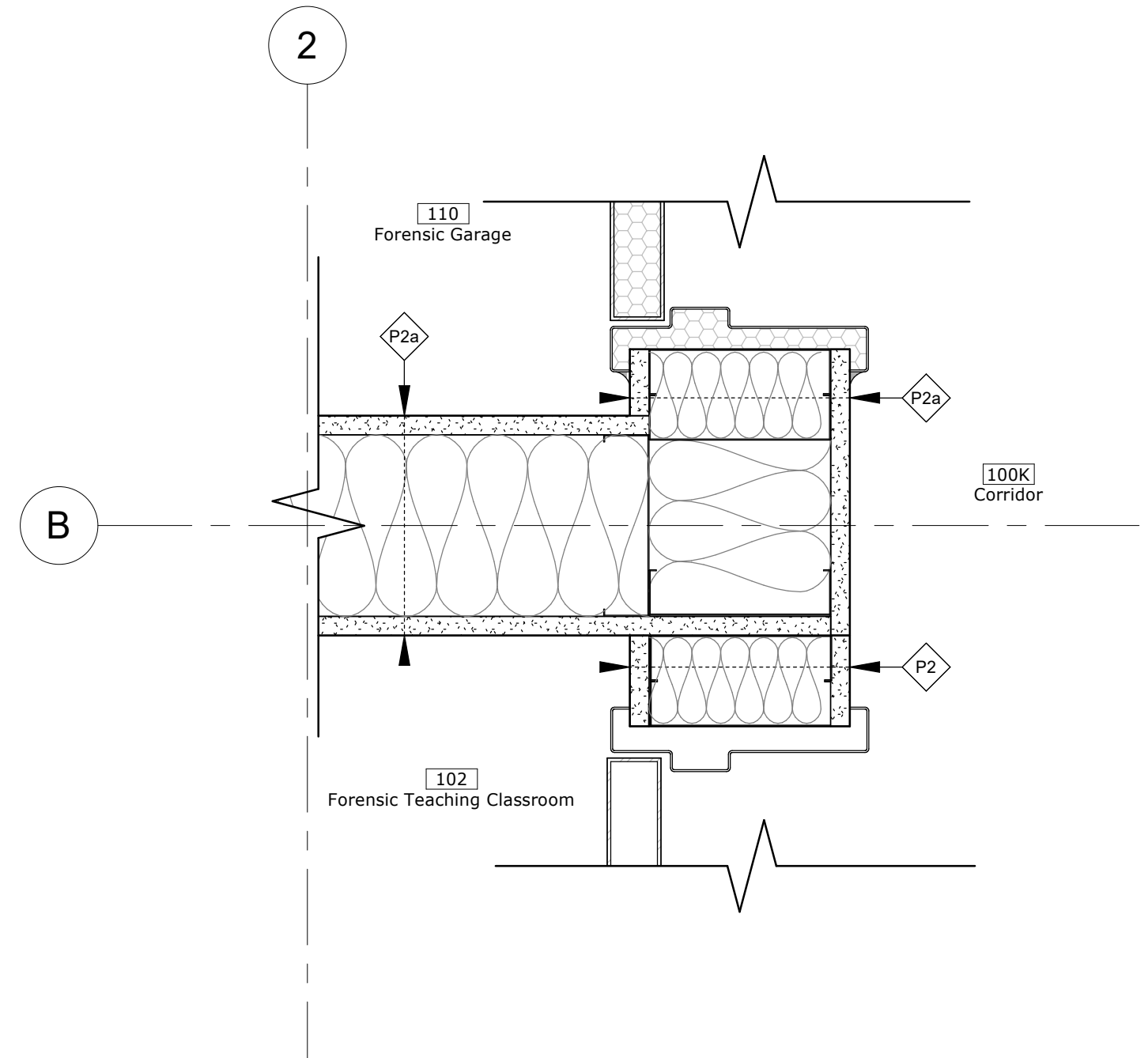
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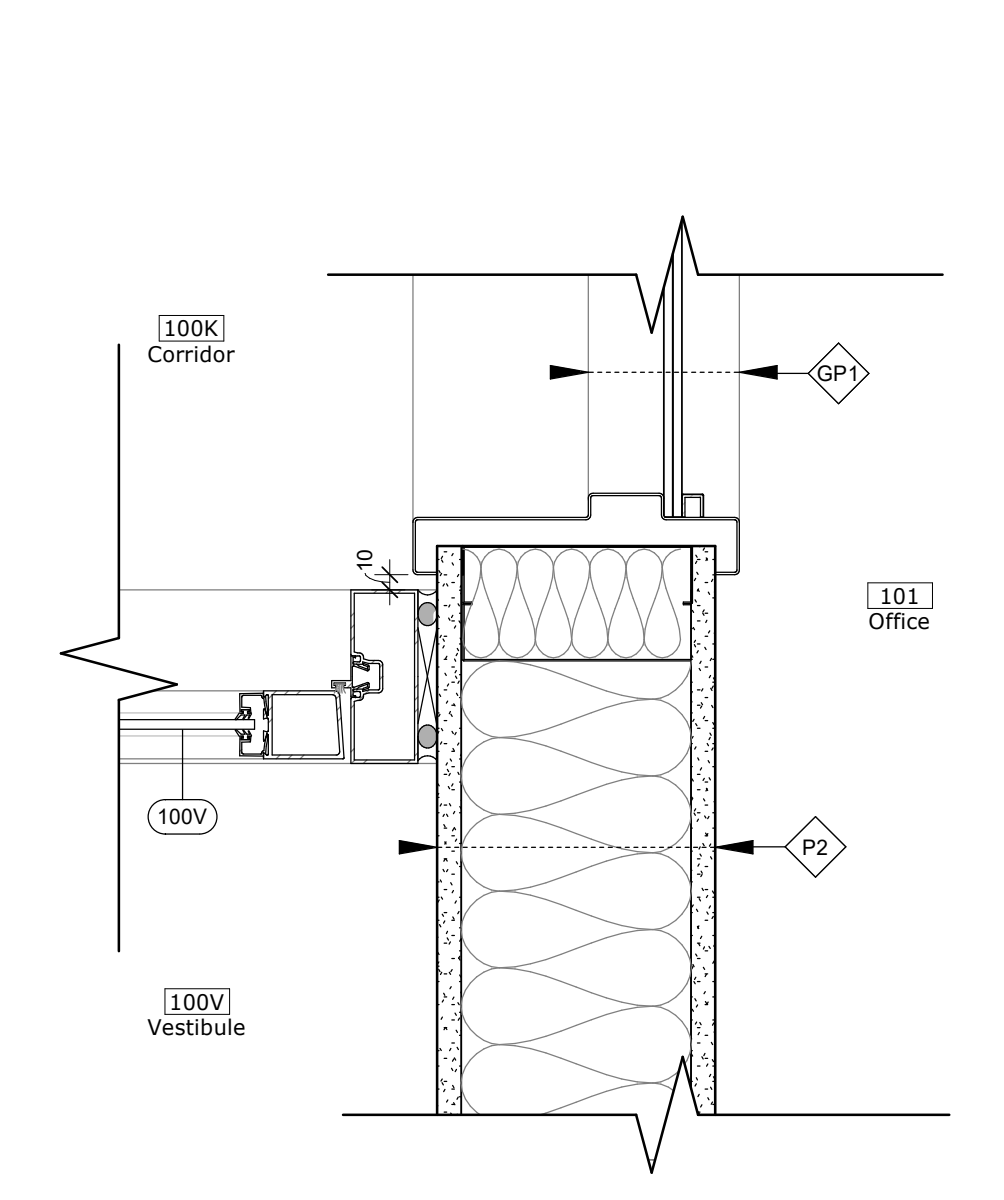


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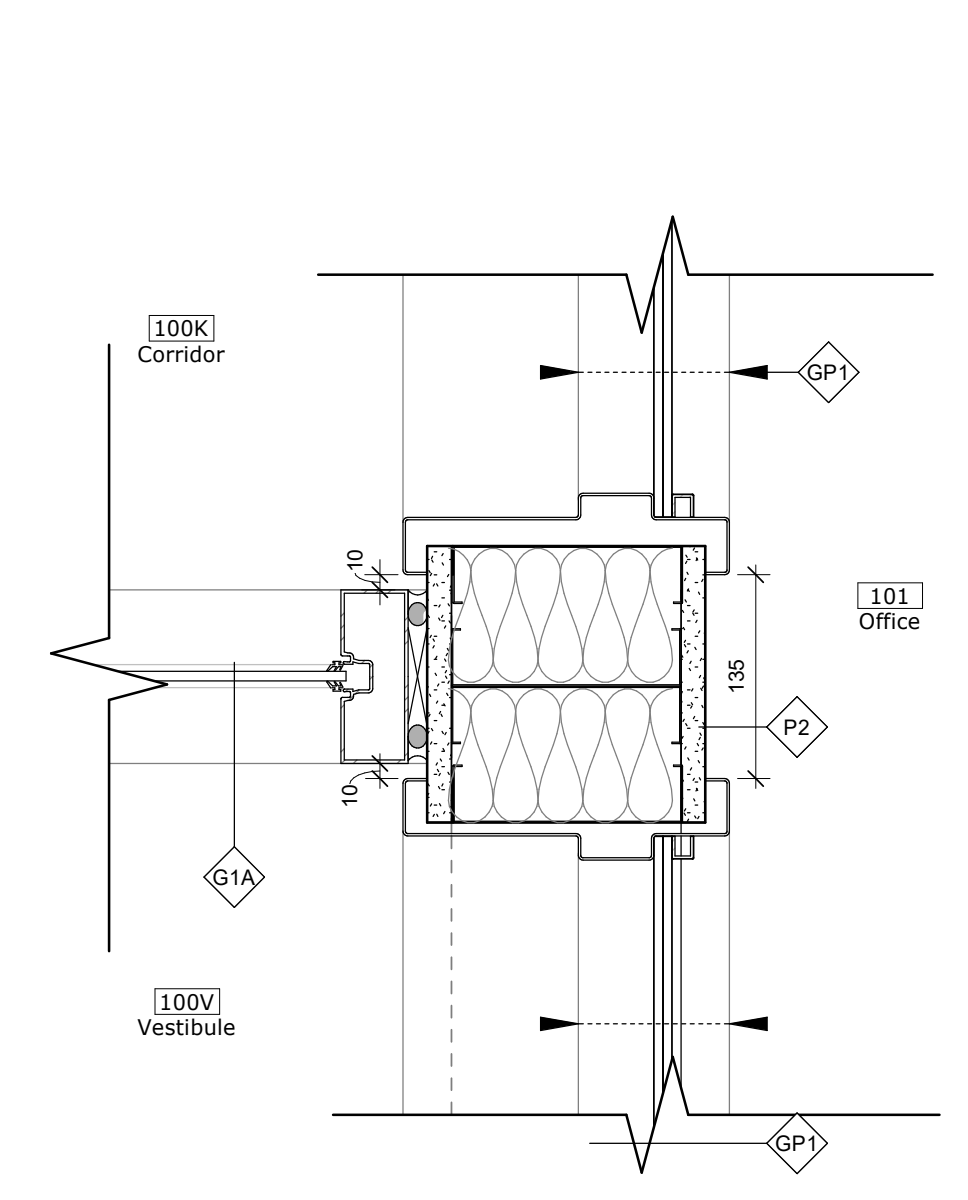
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DATE: 05/26/20	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



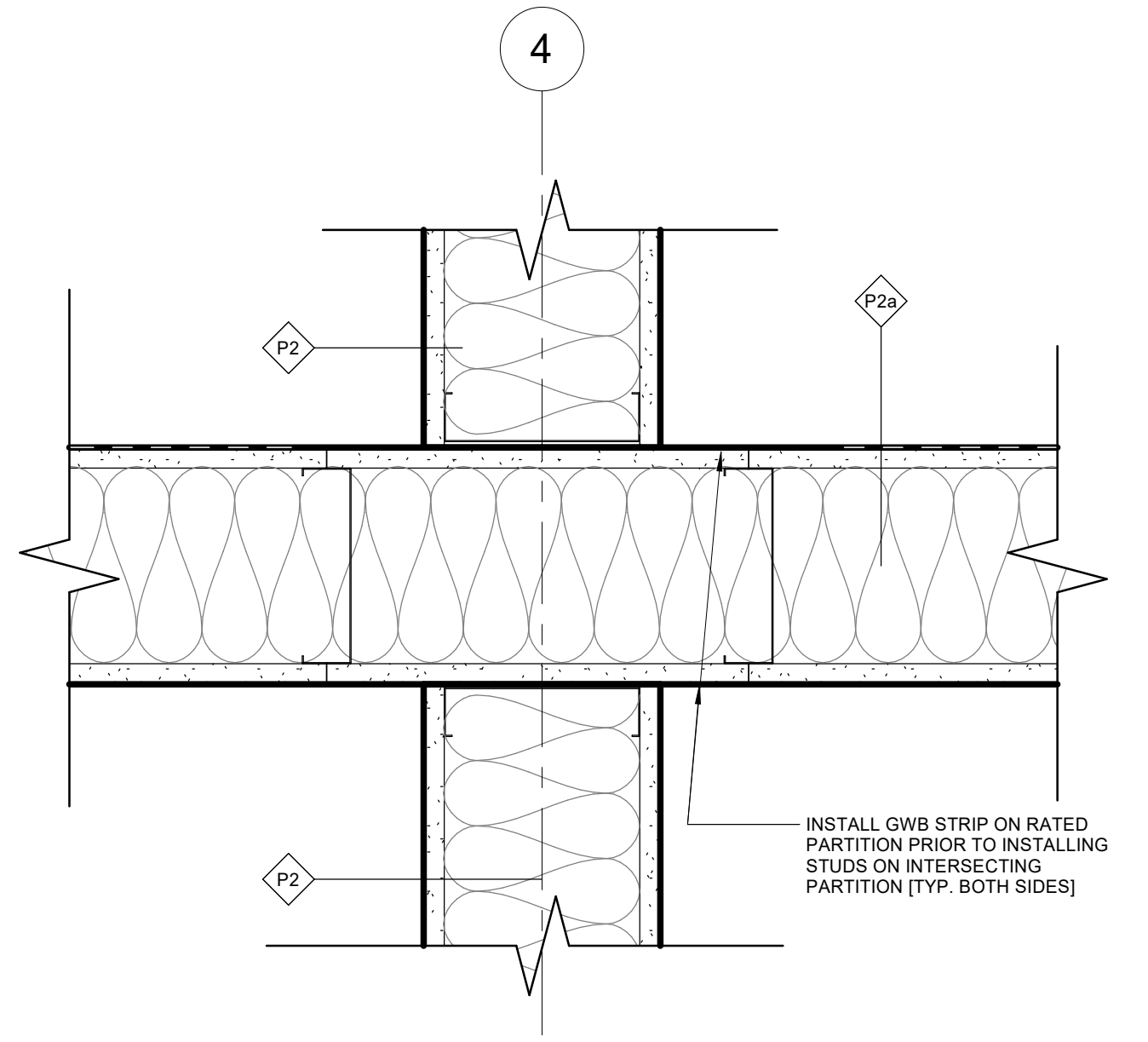
1 PLAN DETAIL - P2 / P2A CONNECTION
 A601 Scale: 1:5



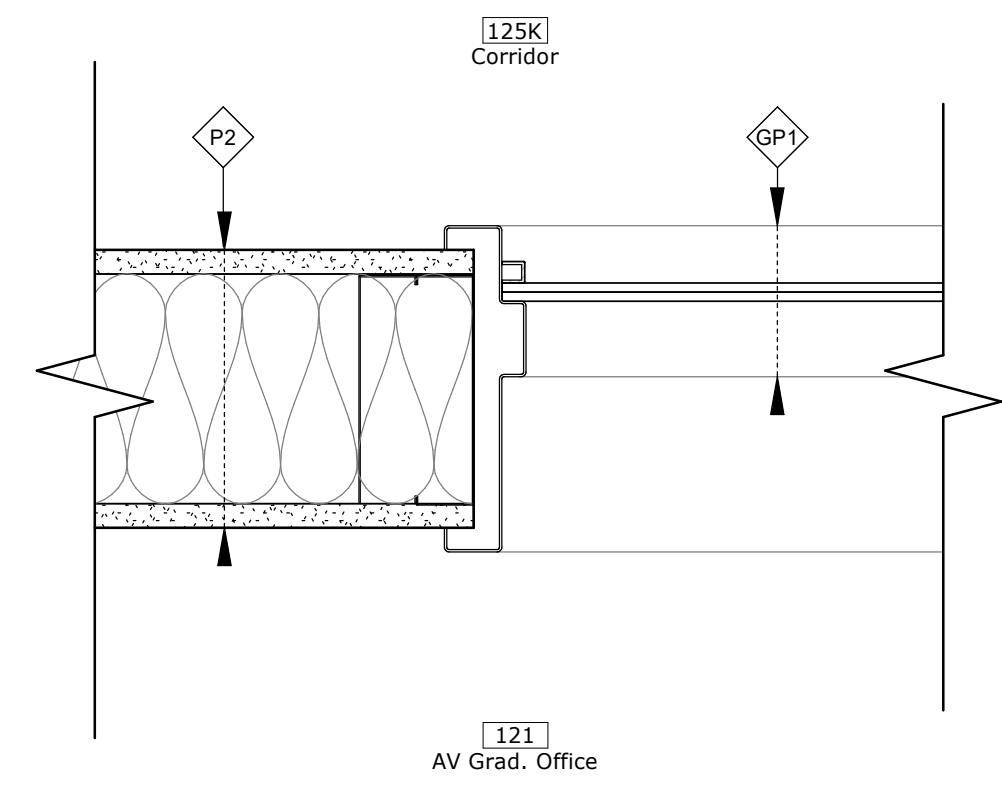
2 PLAN DETAIL - INTERIOR VESTIBULE
 A601 Scale: 1:5



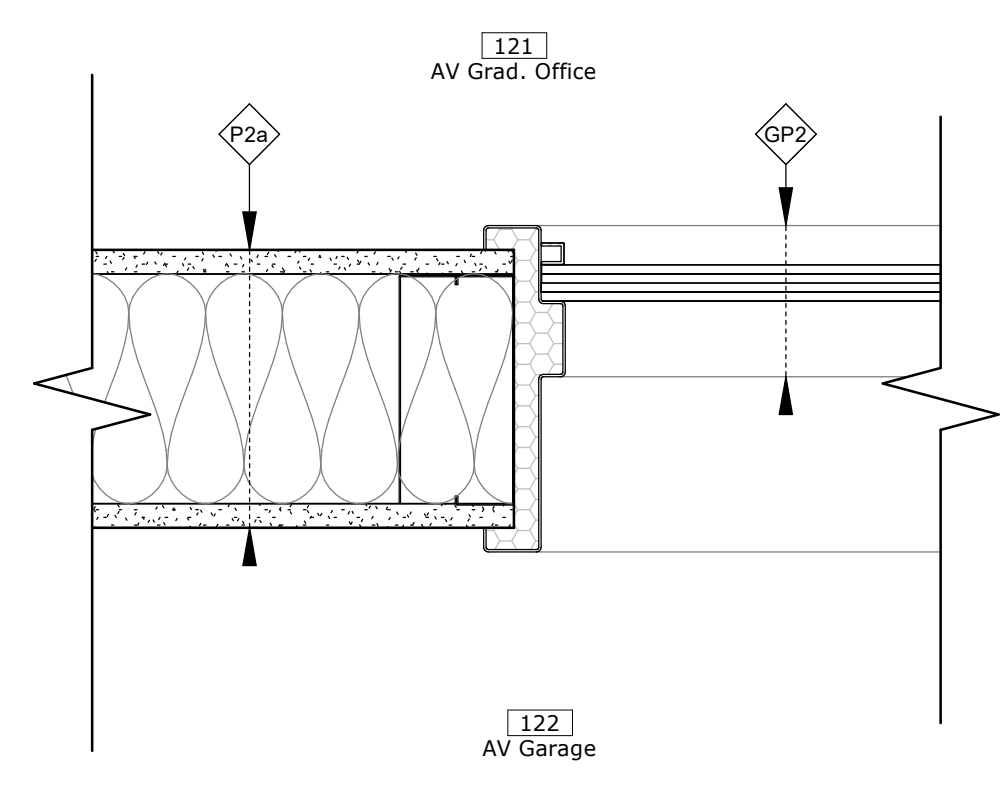
3 PLAN DETAIL - INTERIOR VESTIBULE AT TRANSOM
 A601 Scale: 1:5



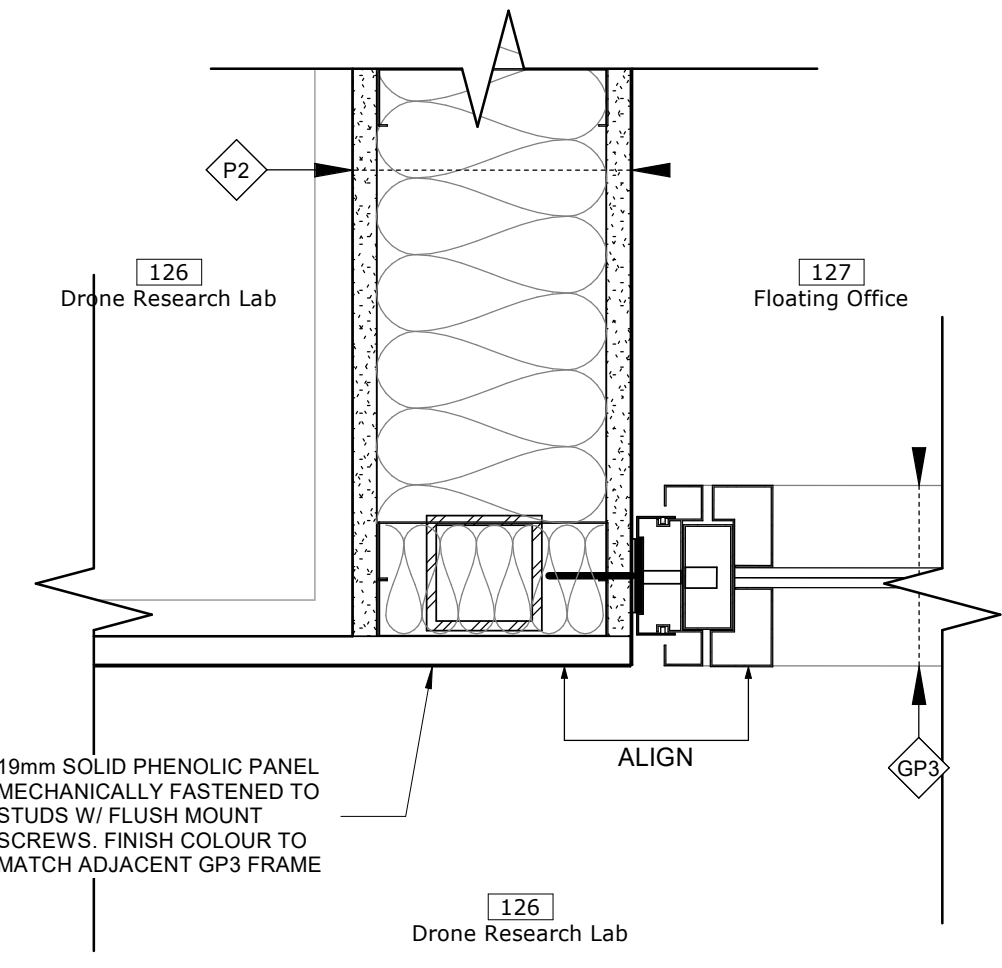
4 PLAN DETAIL - FIRE-RATED PARTITION INTERSECTION
 A601 Scale: 1:5



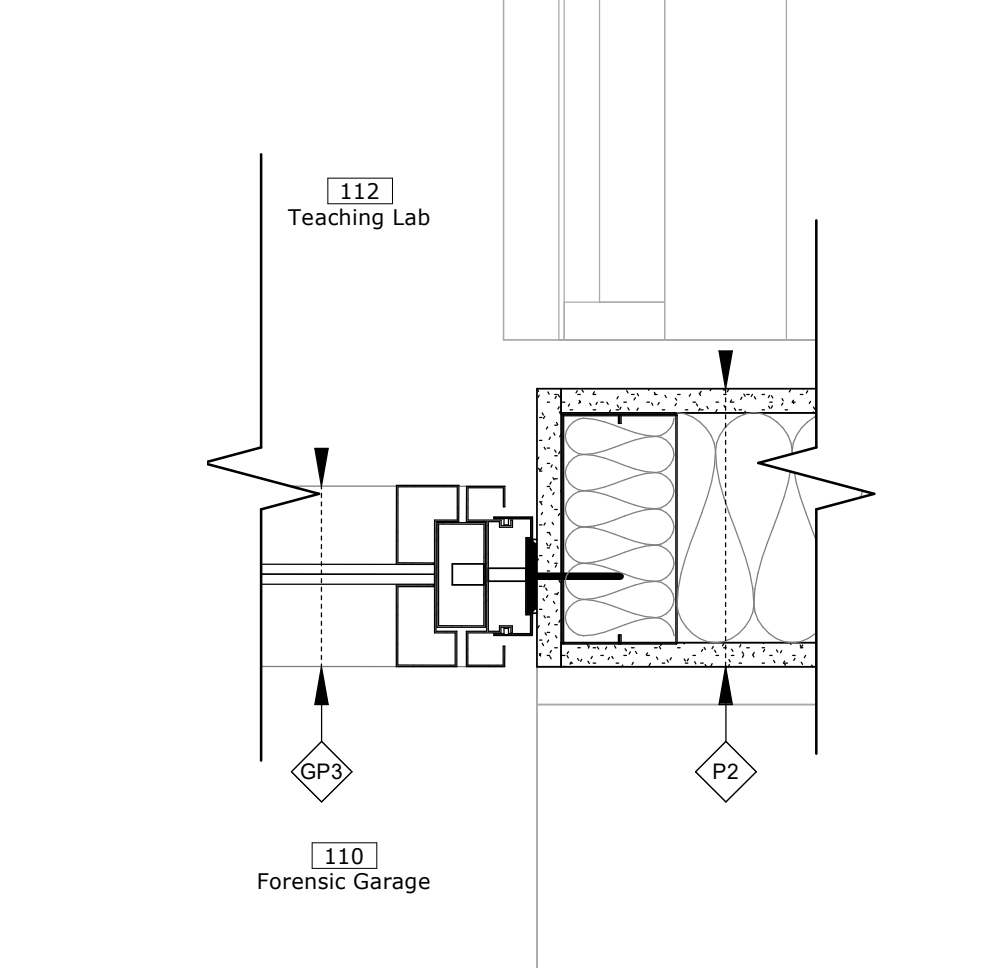
5 PLAN DETAIL - INTERIOR WINDOW GP1
 A601 Scale: 1:5



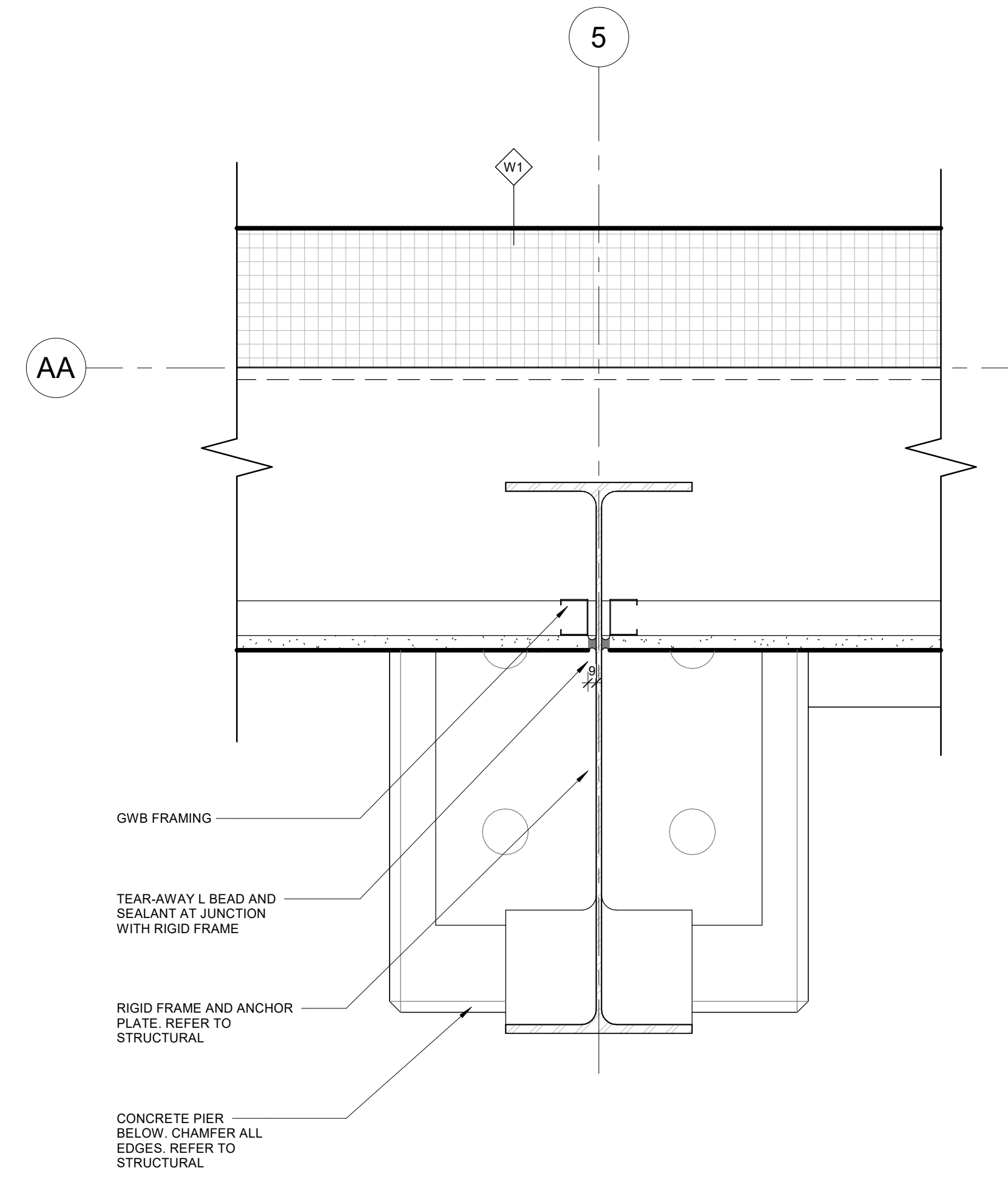
6 PLAN DETAIL - INTERIOR FIRE-RATED WINDOW GP2
 A601 Scale: 1:5



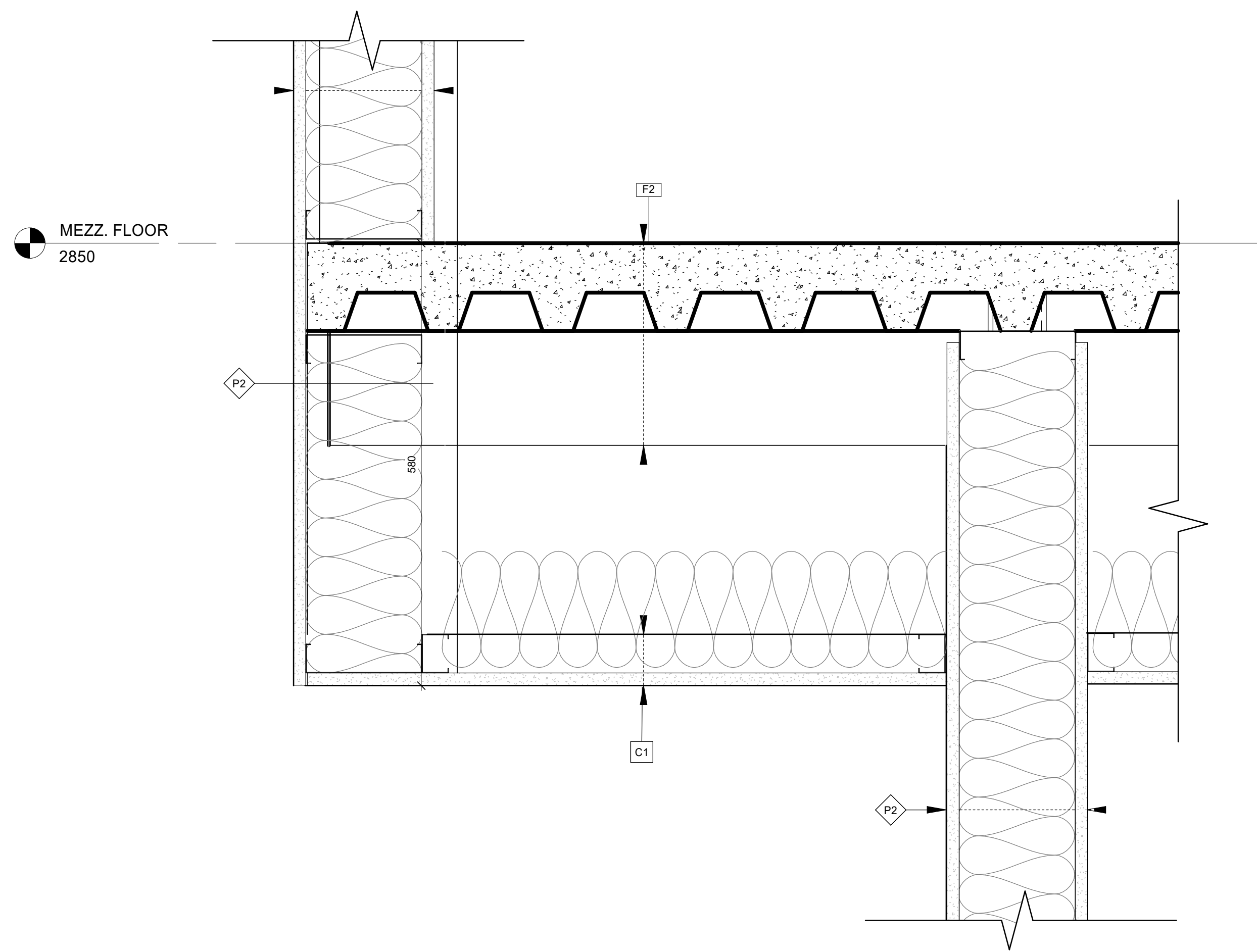
7 PLAN DETAIL - GL3 @ CROBE OFFICE
 A601 Scale: 1:5



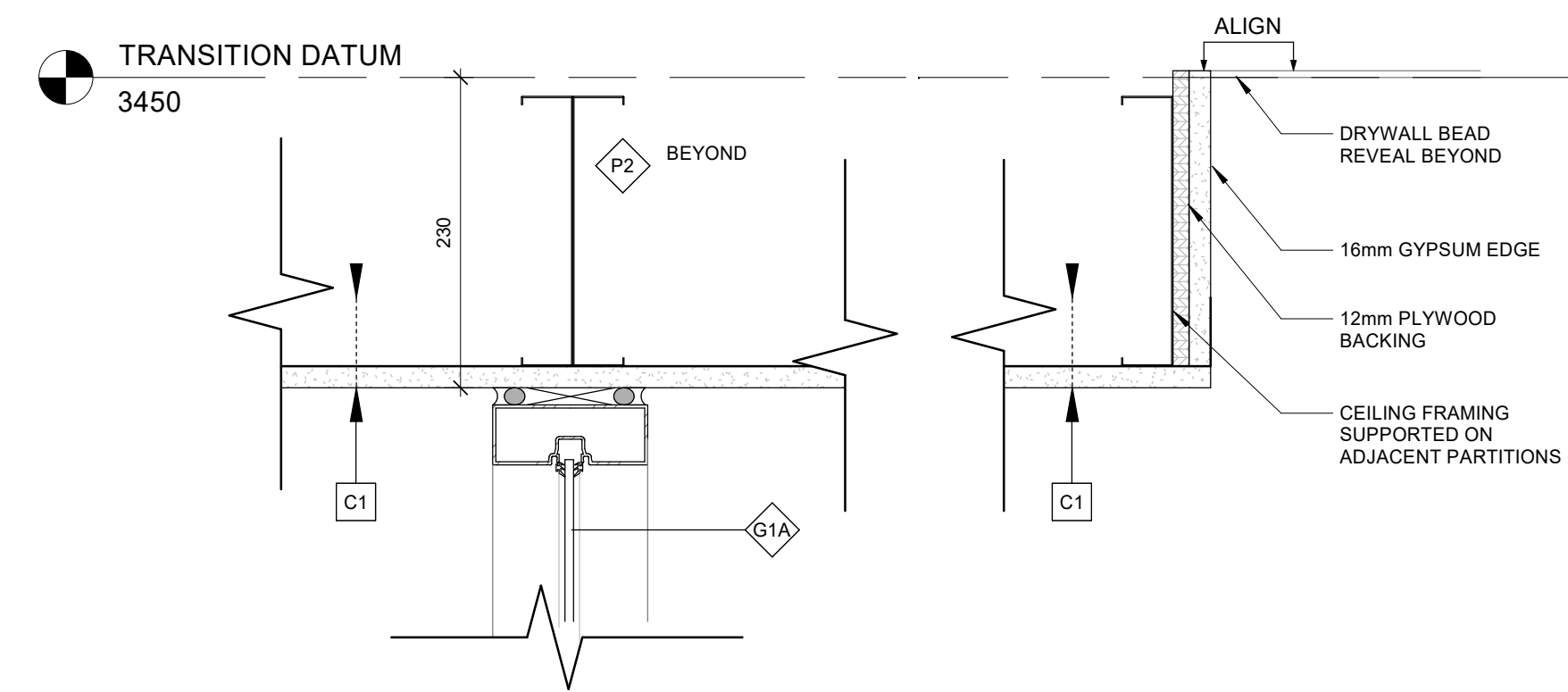
8 PLAN DETAIL - GL3 @ TEACHING LAB
 A601 Scale: 1:5



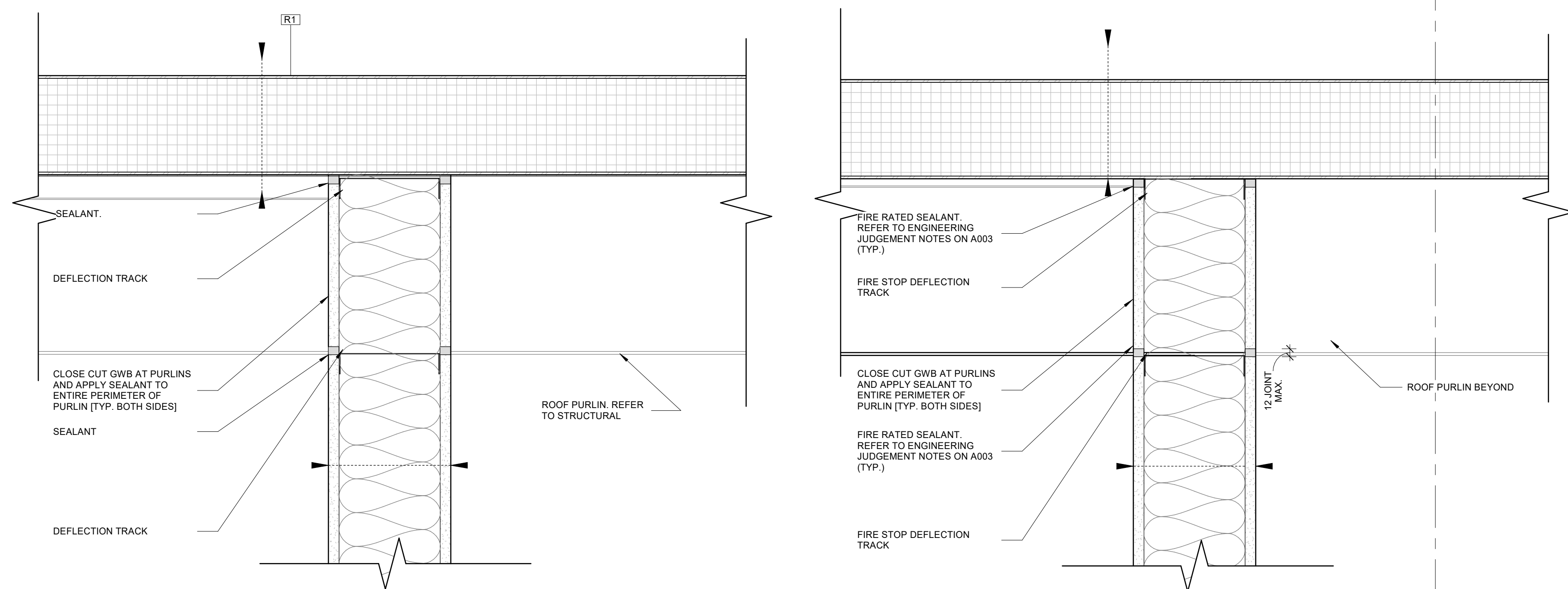
9 PLAN DETAIL AT RIGID FRAME
 A601 Scale: 1:5



1 SECTION DETAIL - MEZZANINE OVERHANG
A602 Scale: 1 : 5

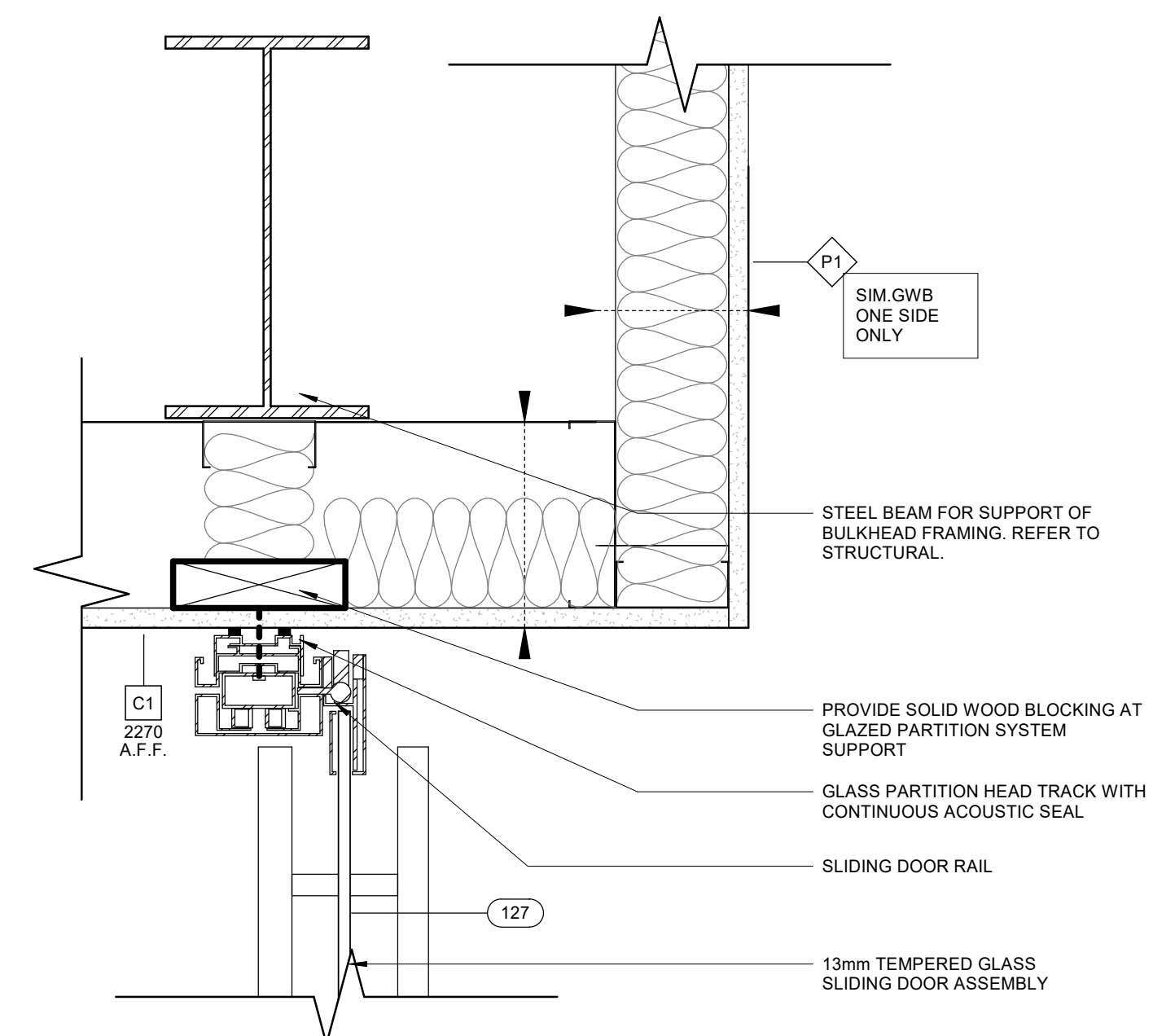


2 SECTION DETAIL - VESTIBULE CEILING
A602 Scale: 1 : 5



3 SECTION DETAIL - TYPICAL PARTITION AT ROOF
A602 Scale: 1 : 5

4 SECTION DETAIL - TYPICAL FIRE-RATED PARTITION AT ROOF
A602 Scale: 1 : 5



5 SECTION DETAIL - BULKHEAD @ FLOATING OFFICE
A602 Scale: 1 : 5

No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

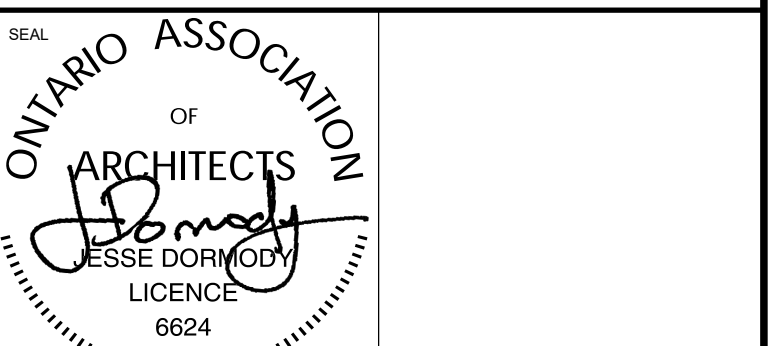
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
SECTION DETAILS - INTERIOR

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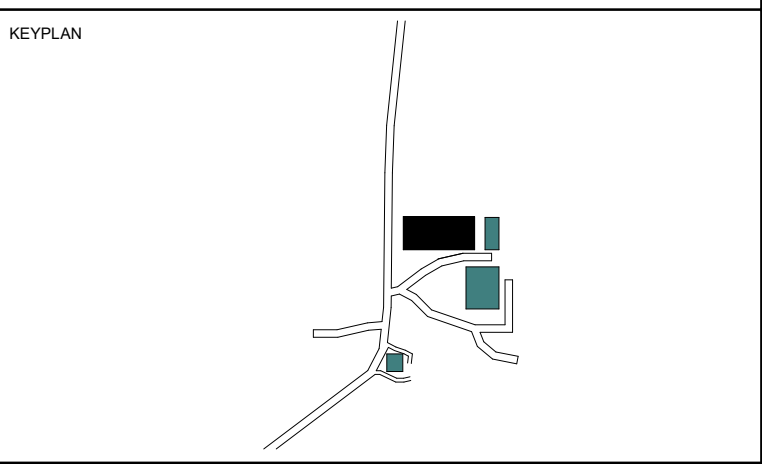
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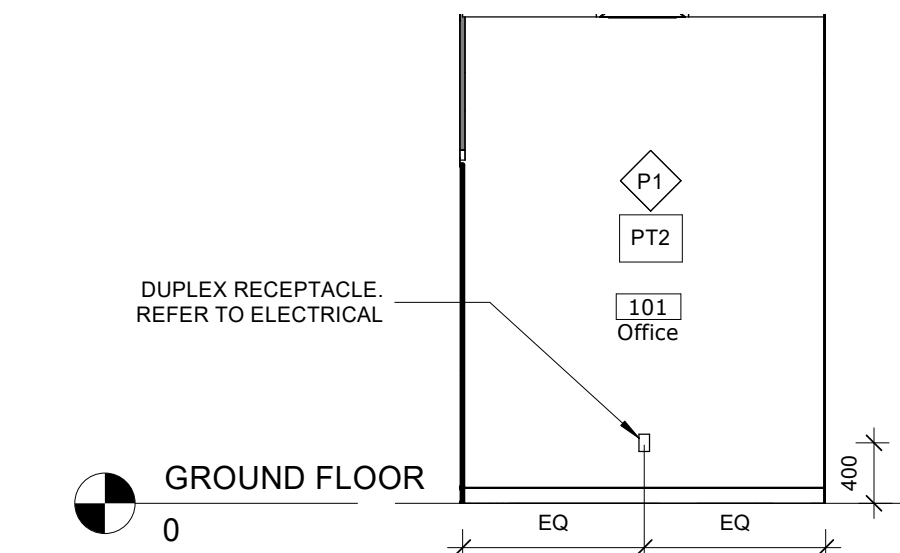
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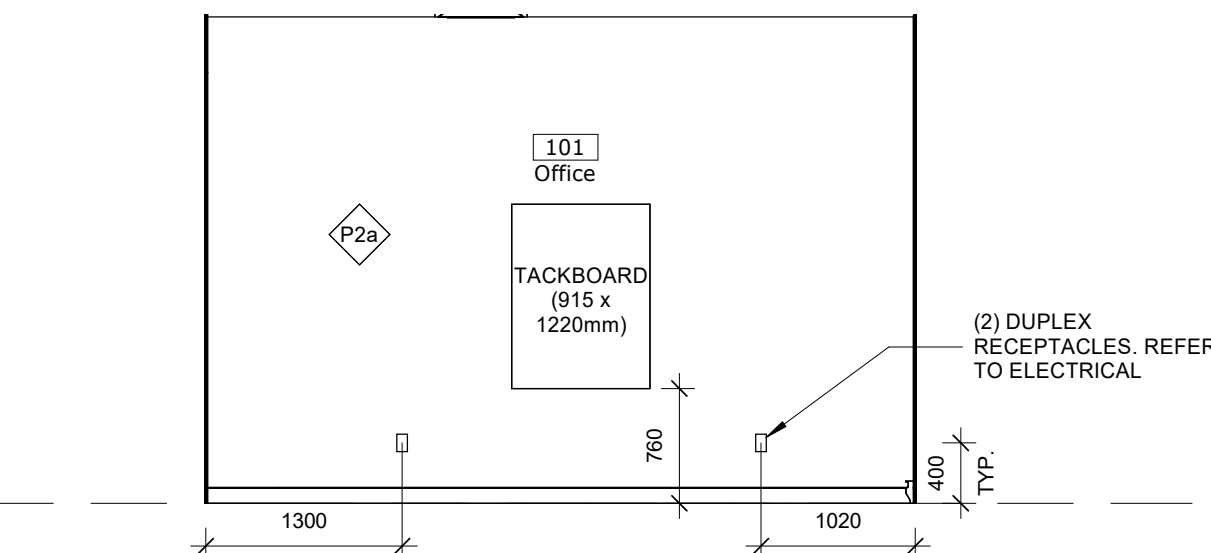
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DATE:	05/26/20	A602
PROJECT NO.:	2301	
DRAWN BY:	Author	
CHECKED BY:	Checker	



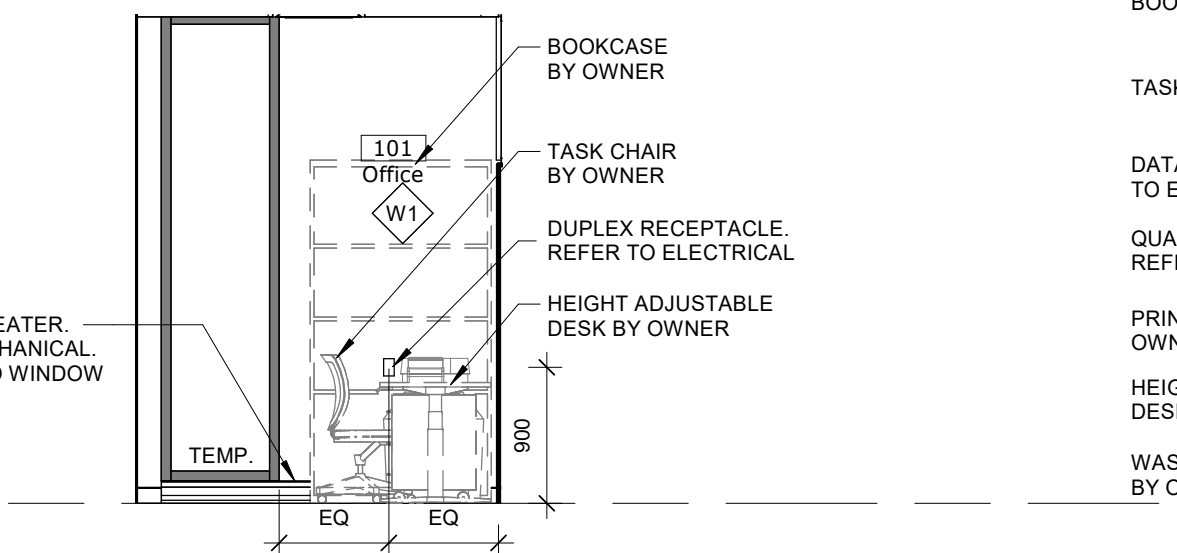
No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25



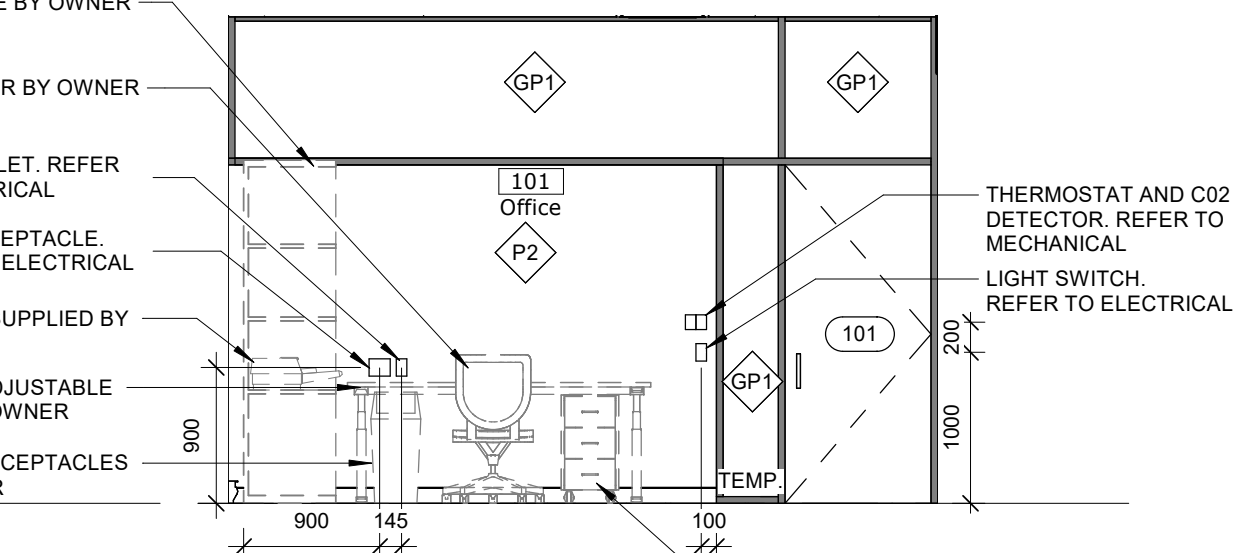
1 INT ELEV - OFFICE NORTH
 A701 Scale: 1 : 50



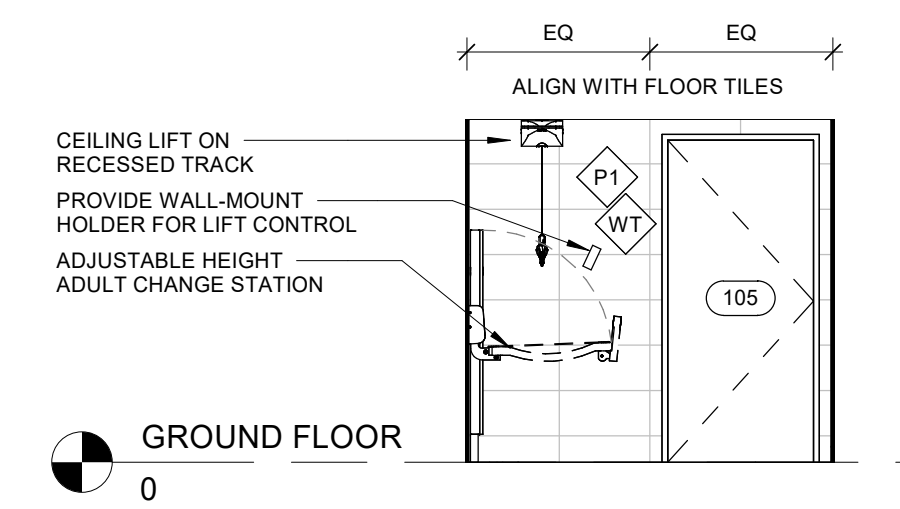
2 INT ELEV - OFFICE EAST
 A701 Scale: 1 : 50



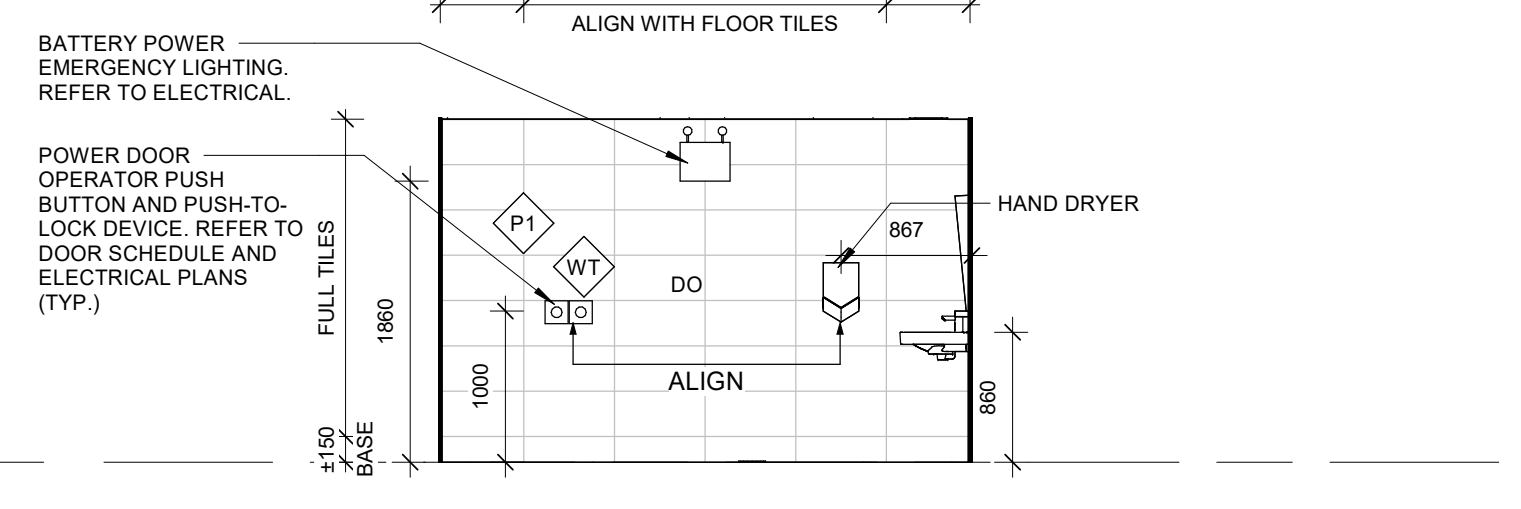
3 INT ELEV - OFFICE SOUTH
 A701 Scale: 1 : 50



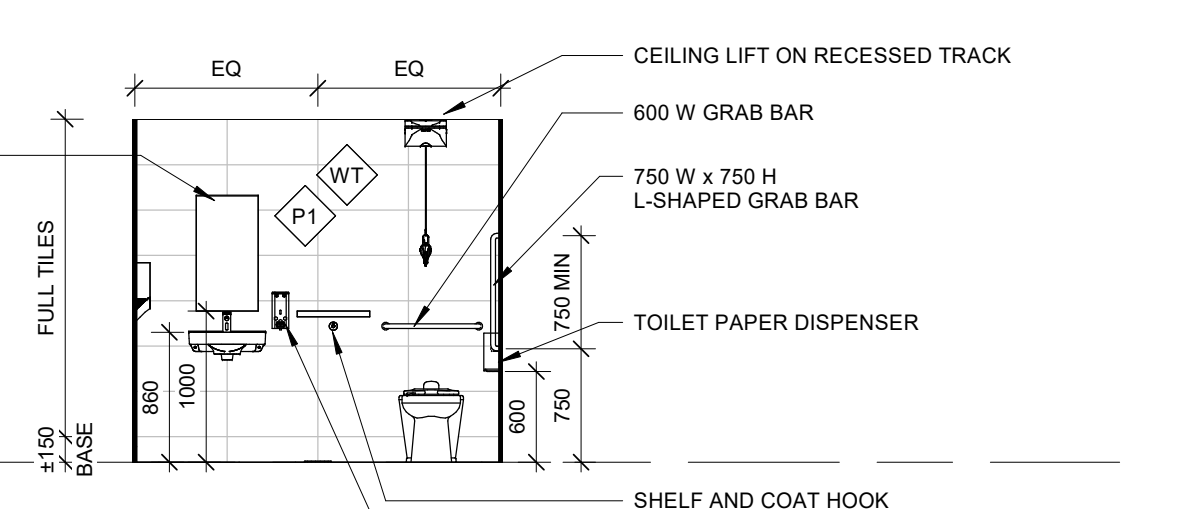
4 INT ELEV - OFFICE WEST
 A701 Scale: 1 : 50



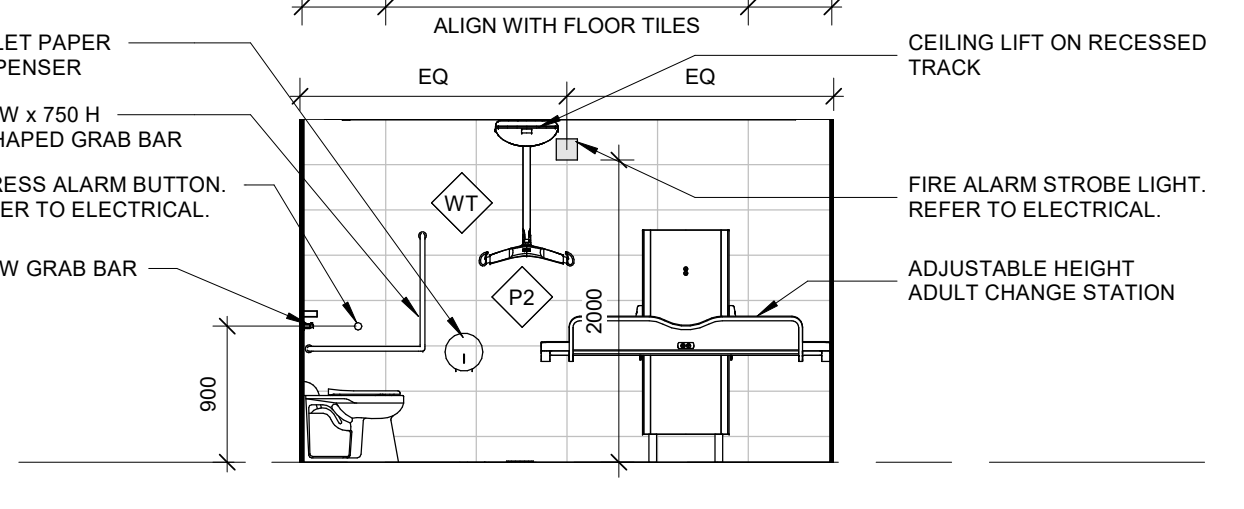
5 INT ELEV - UNIVERSAL WASHROOM NORTH
 A701 Scale: 1 : 50



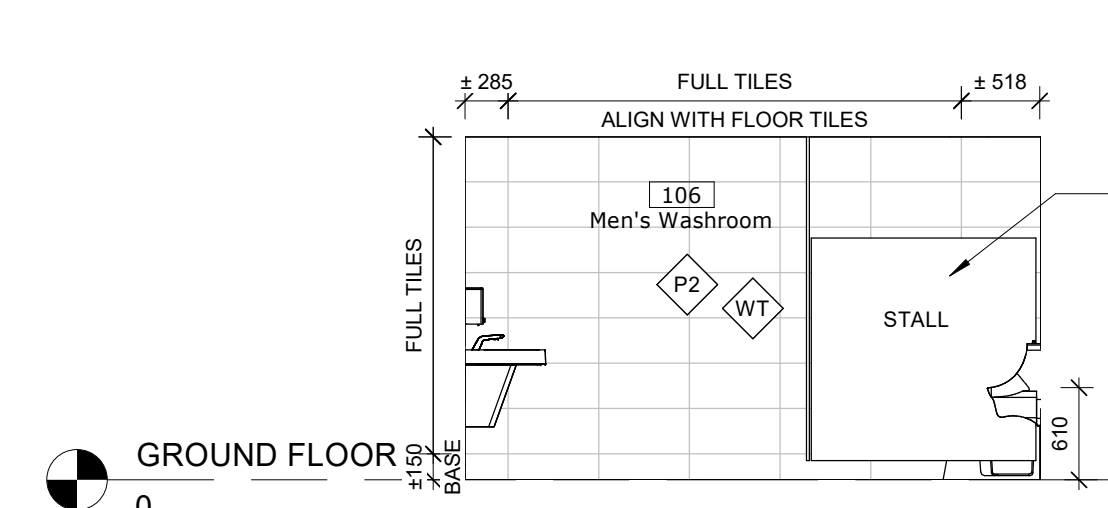
6 INT ELEV - UNIVERSAL WASHROOM EAST
 A701 Scale: 1 : 50



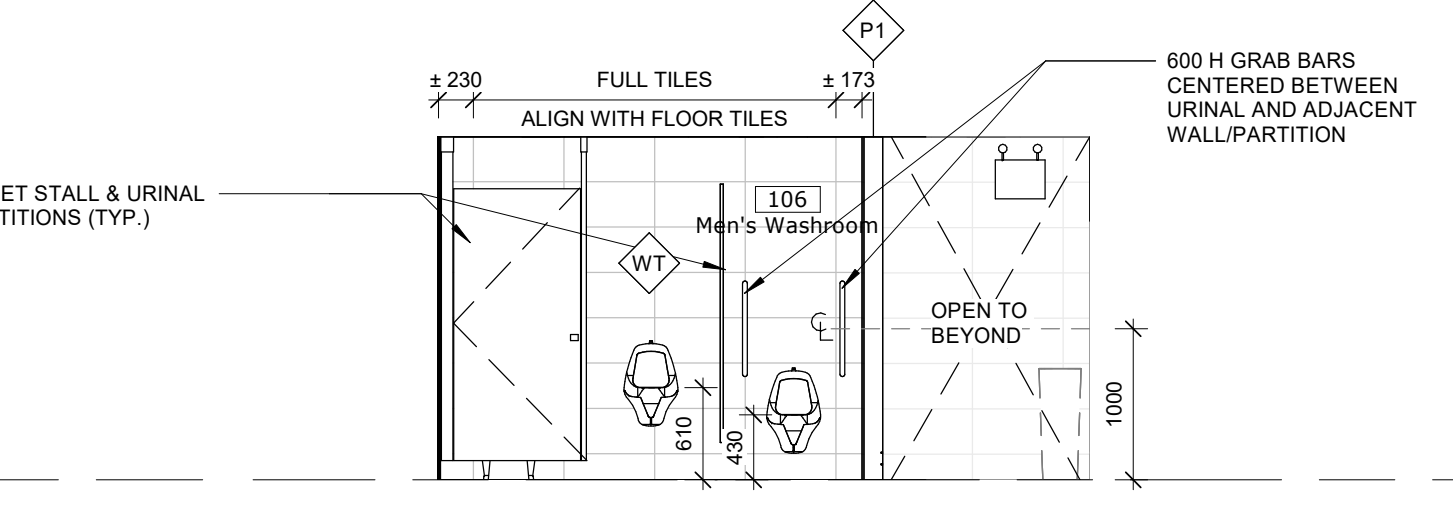
7 INT ELEV - UNIVERSAL WASHROOM SOUTH
 A701 Scale: 1 : 50



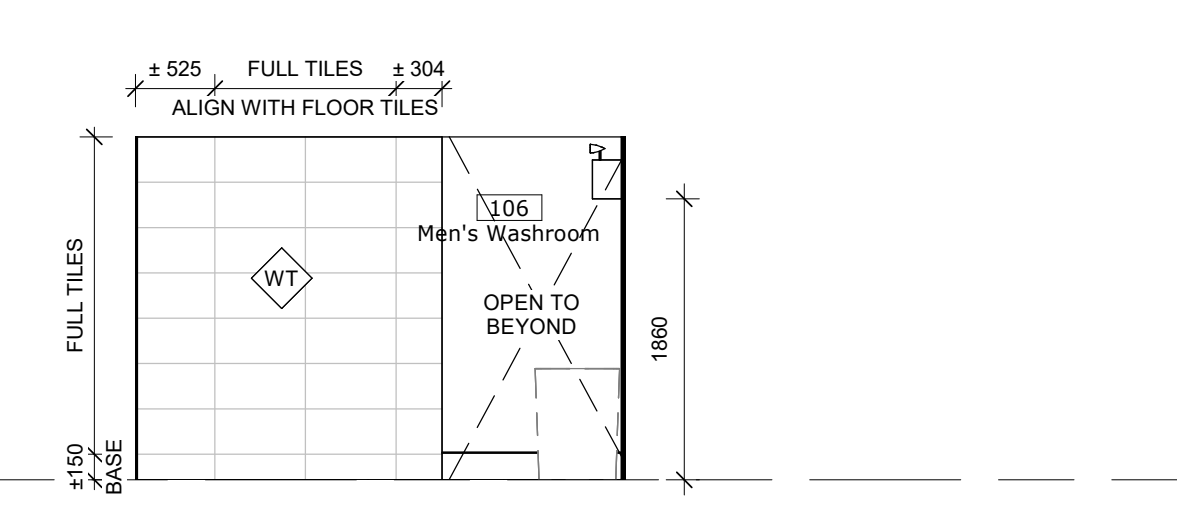
8 INT ELEV - UNIVERSAL WASHROOM WEST
 A701 Scale: 1 : 50



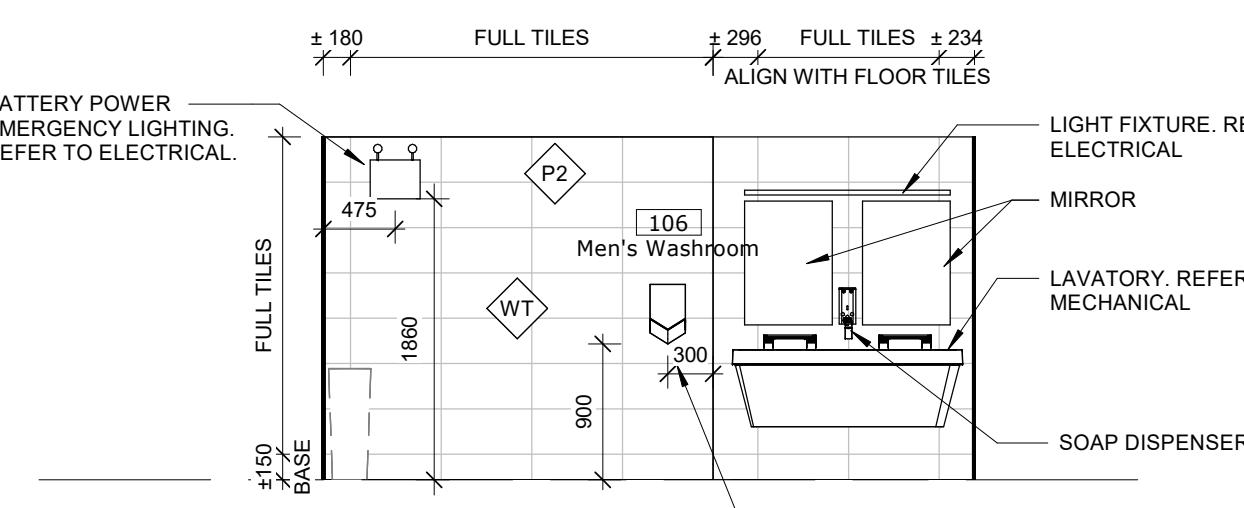
9 INT ELEV - MEN'S WASHROOM NORTH
 A701 Scale: 1 : 50



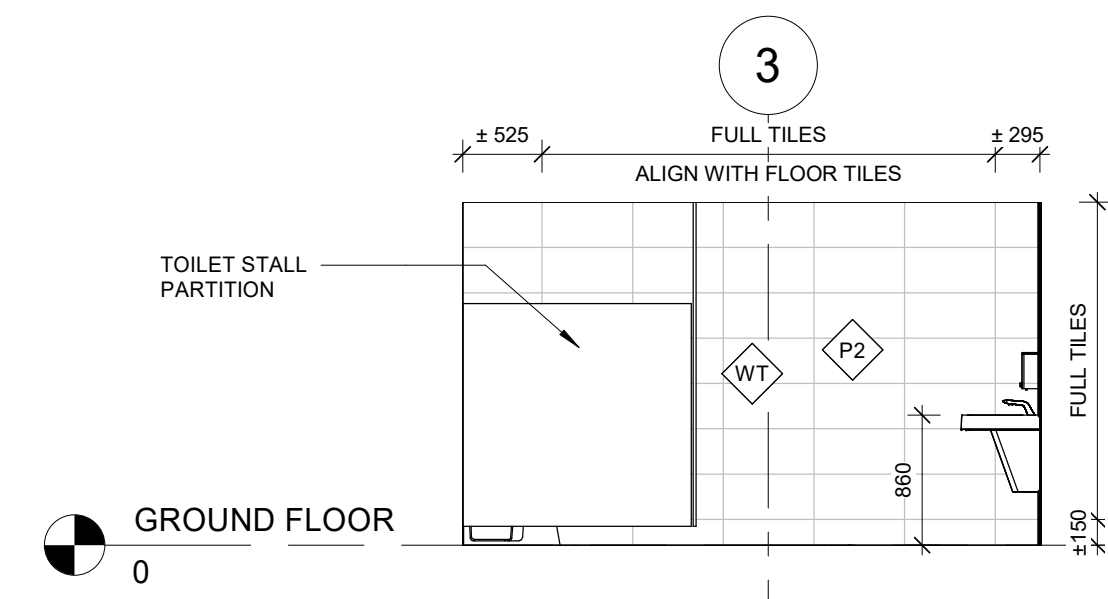
10 INT ELEV - MEN'S WASHROOM EAST
 A701 Scale: 1 : 50



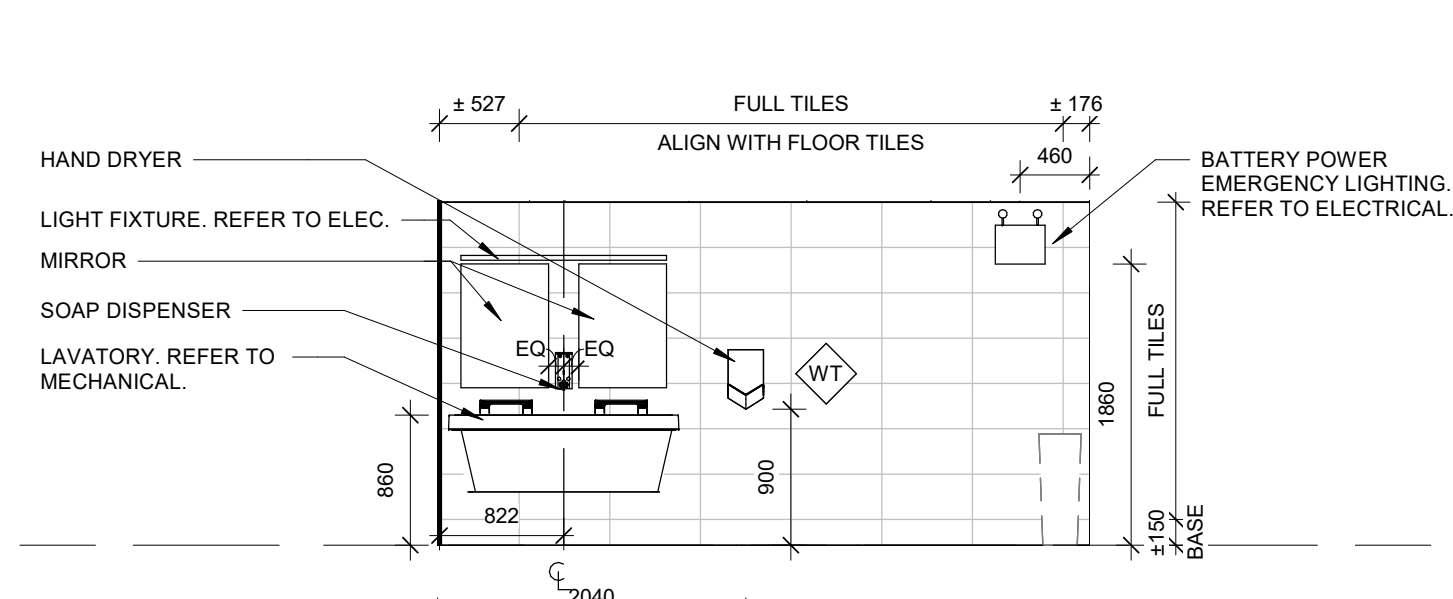
11 INT ELEV - MEN'S WASHROOM SOUTH
 A701 Scale: 1 : 50



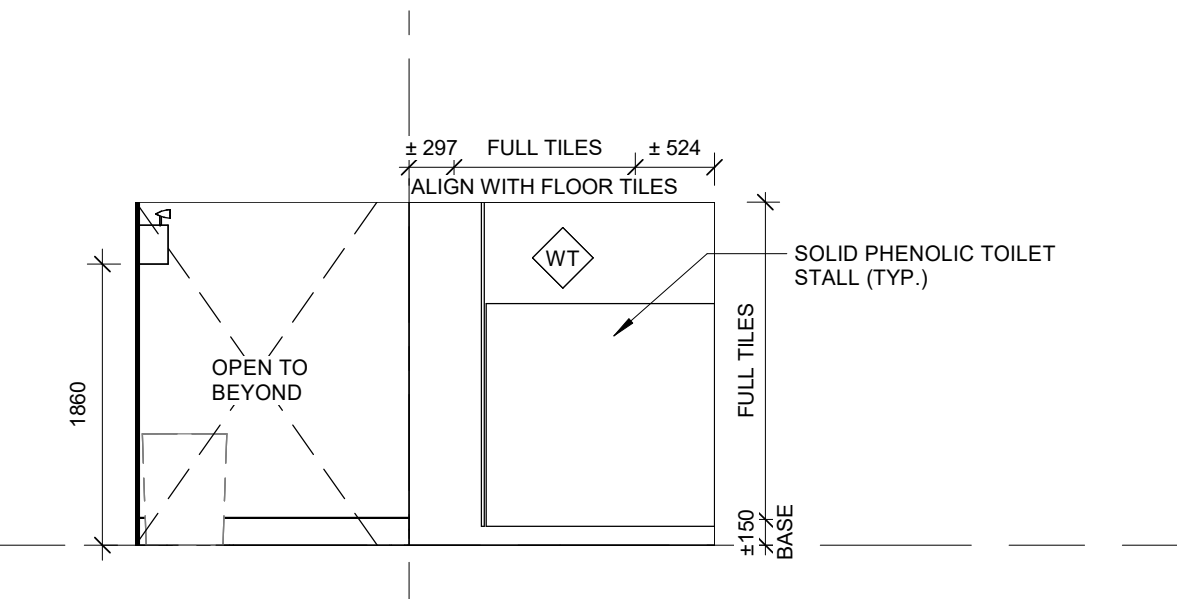
12 INT ELEV - MEN'S WASHROOM WEST
 A701 Scale: 1 : 50



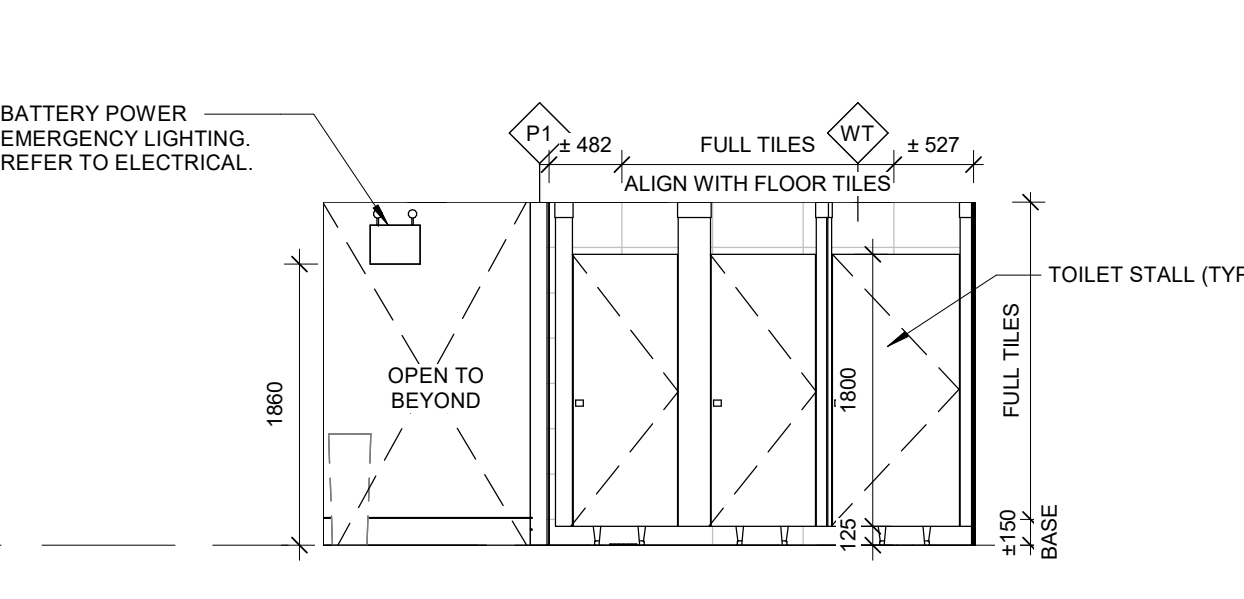
13 INT ELEV - WOMEN'S WASHROOM NORTH
 A701 Scale: 1 : 50



14 INT ELEV - WOMEN'S WASHROOM EAST
 A701 Scale: 1 : 50



15 INT ELEV - WOMEN'S WASHROOM SOUTH
 A701 Scale: 1 : 50



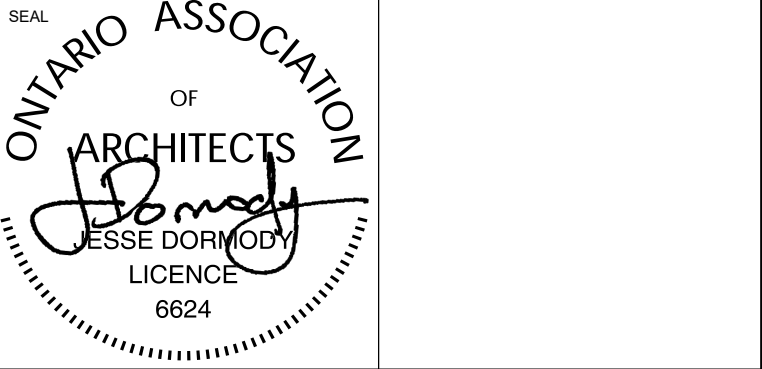
16 INT ELEV - WOMEN'S WASHROOM WEST
 A701 Scale: 1 : 50

CLIENT
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 Pre-Engineered Building
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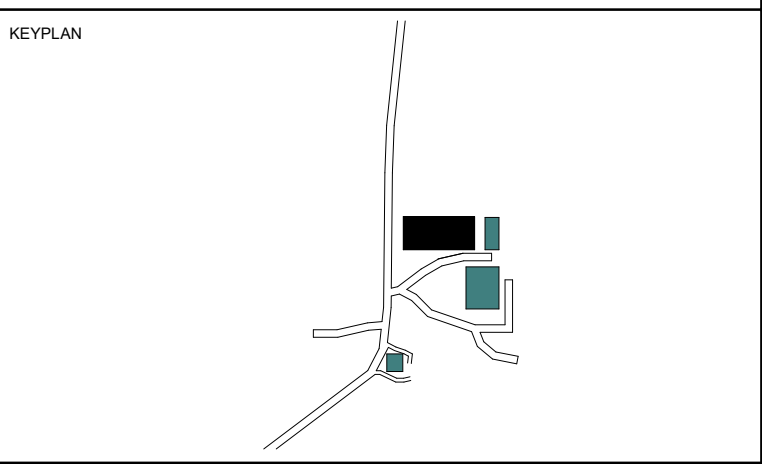
TITLE
 INTERIOR ELEVATIONS

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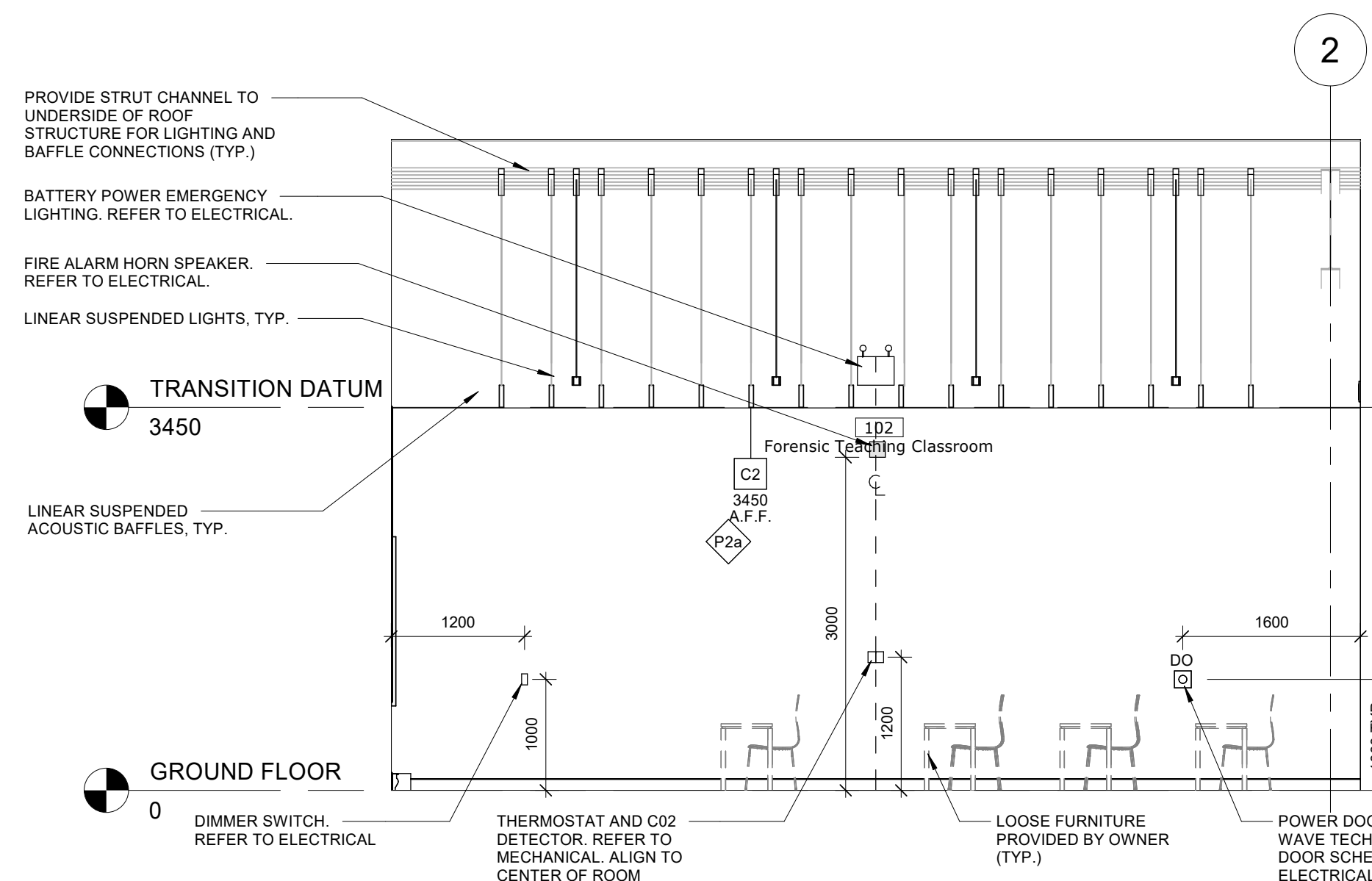


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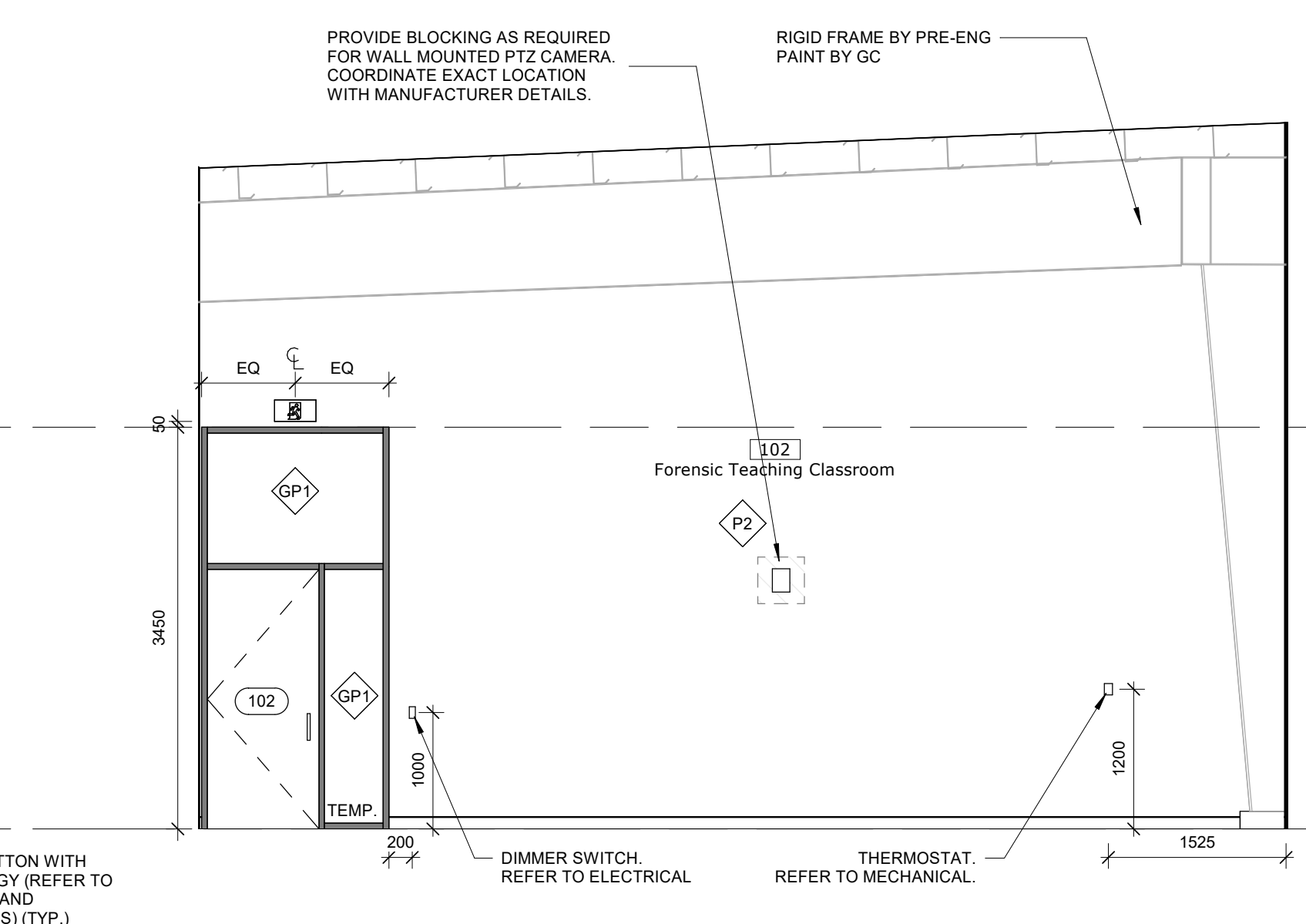
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DATE:	02/22/24		
PROJECT NO.:	2301		
DRAWN BY:	Author		
CHECKED BY:	Checker		



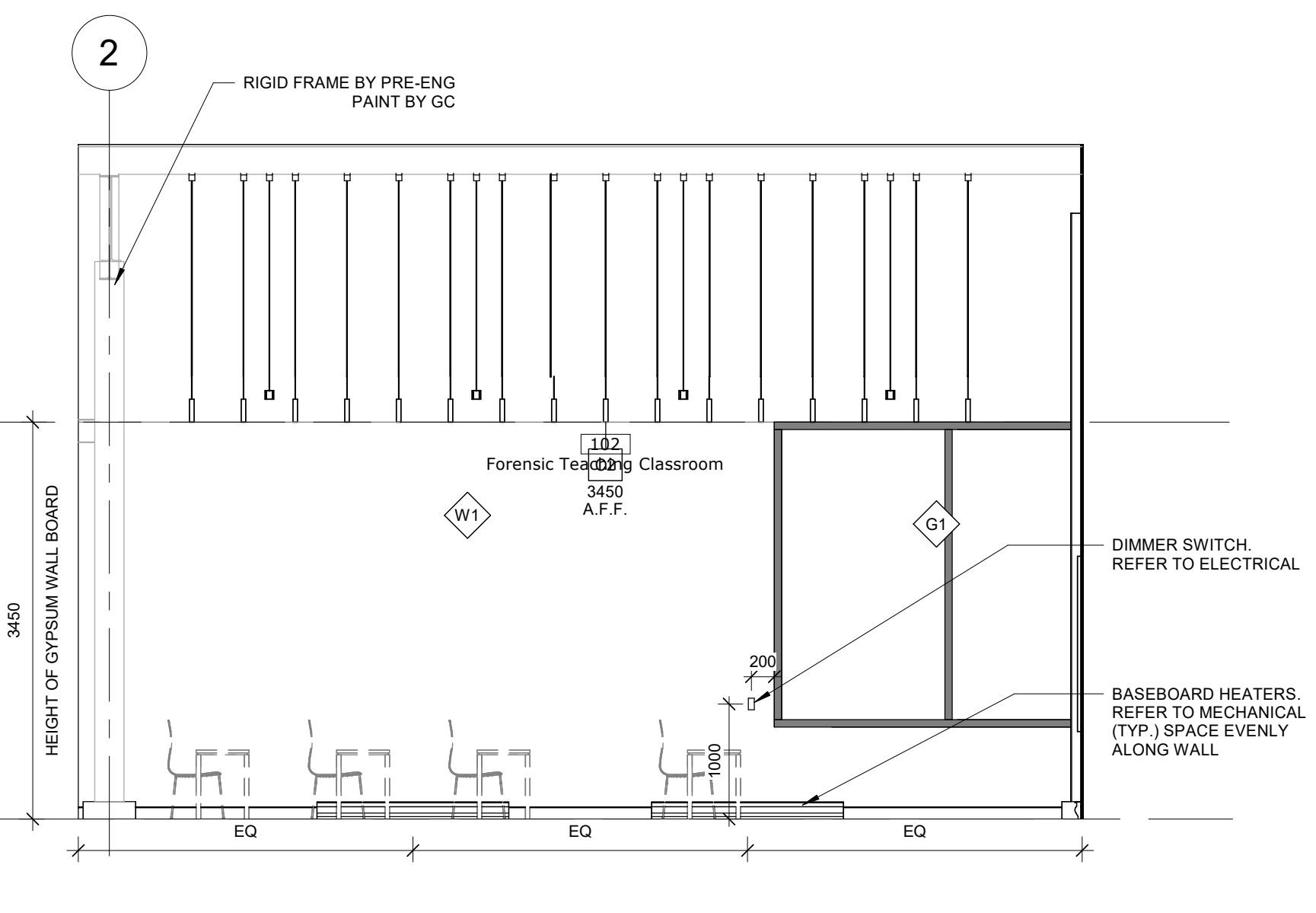
No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25



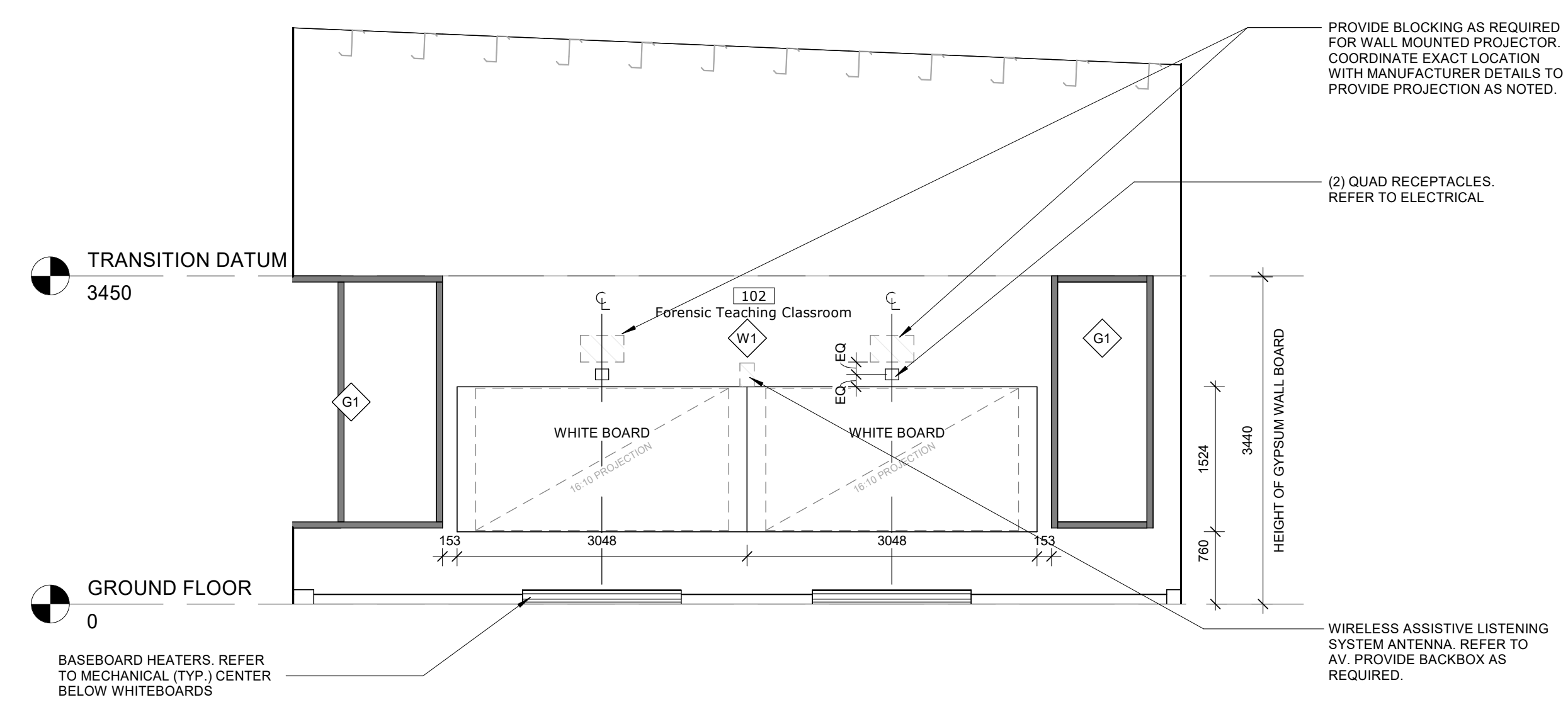
1 INT ELEV - TEACHING CLASSROOM NORTH
 A702 Scale: 1 : 50



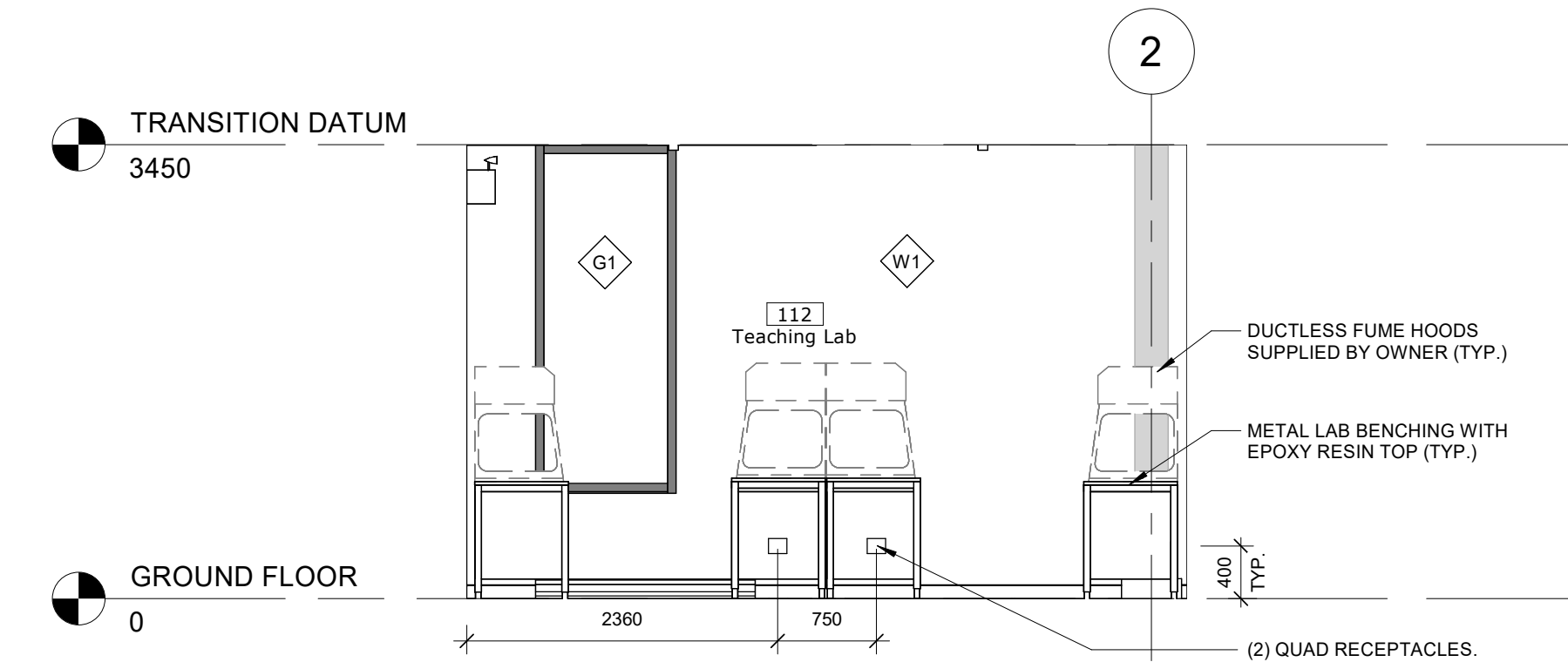
2 INT ELEV - TEACHING CLASSROOM EAST
 A702 Scale: 1 : 50



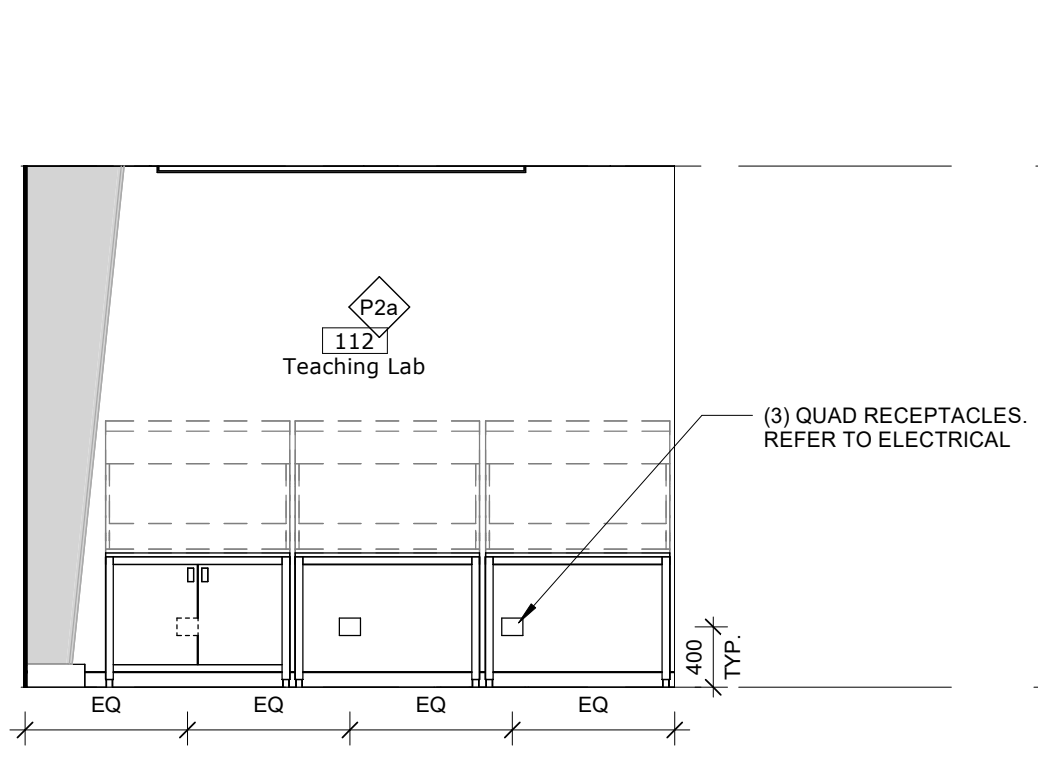
3 INT ELEV - TEACHING CLASSROOM SOUTH
 A702 Scale: 1 : 50



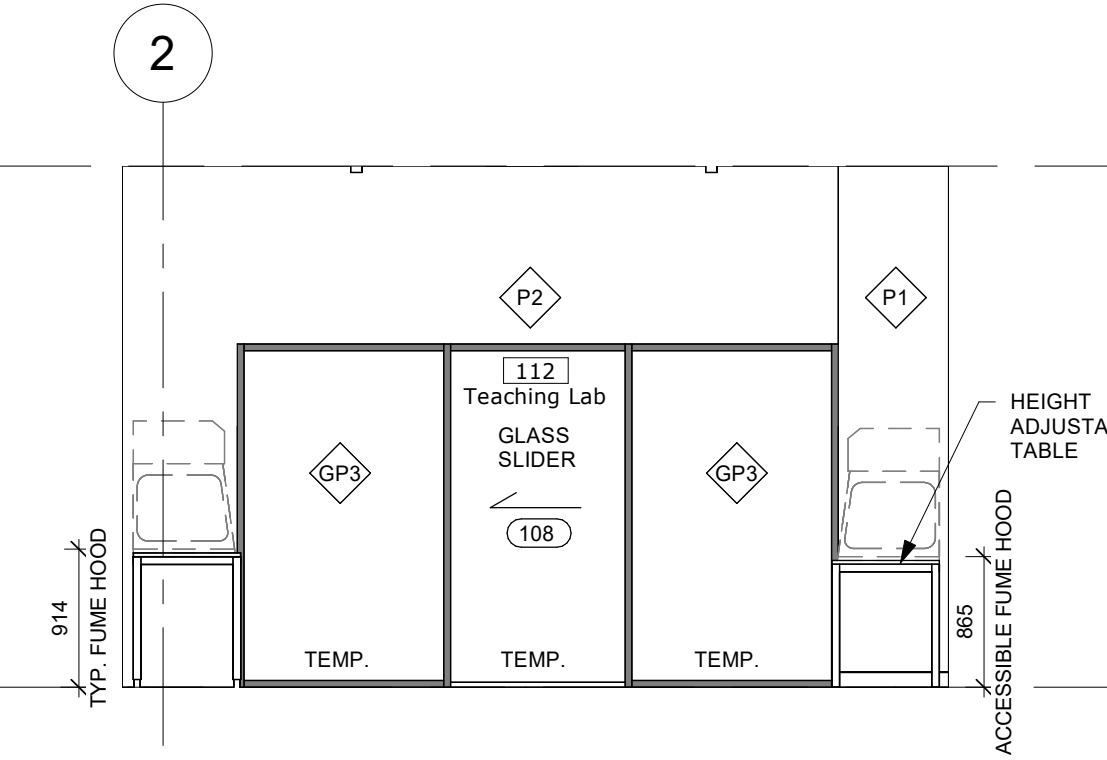
4 INT ELEV - TEACHING CLASSROOM WEST
 A702 Scale: 1 : 50



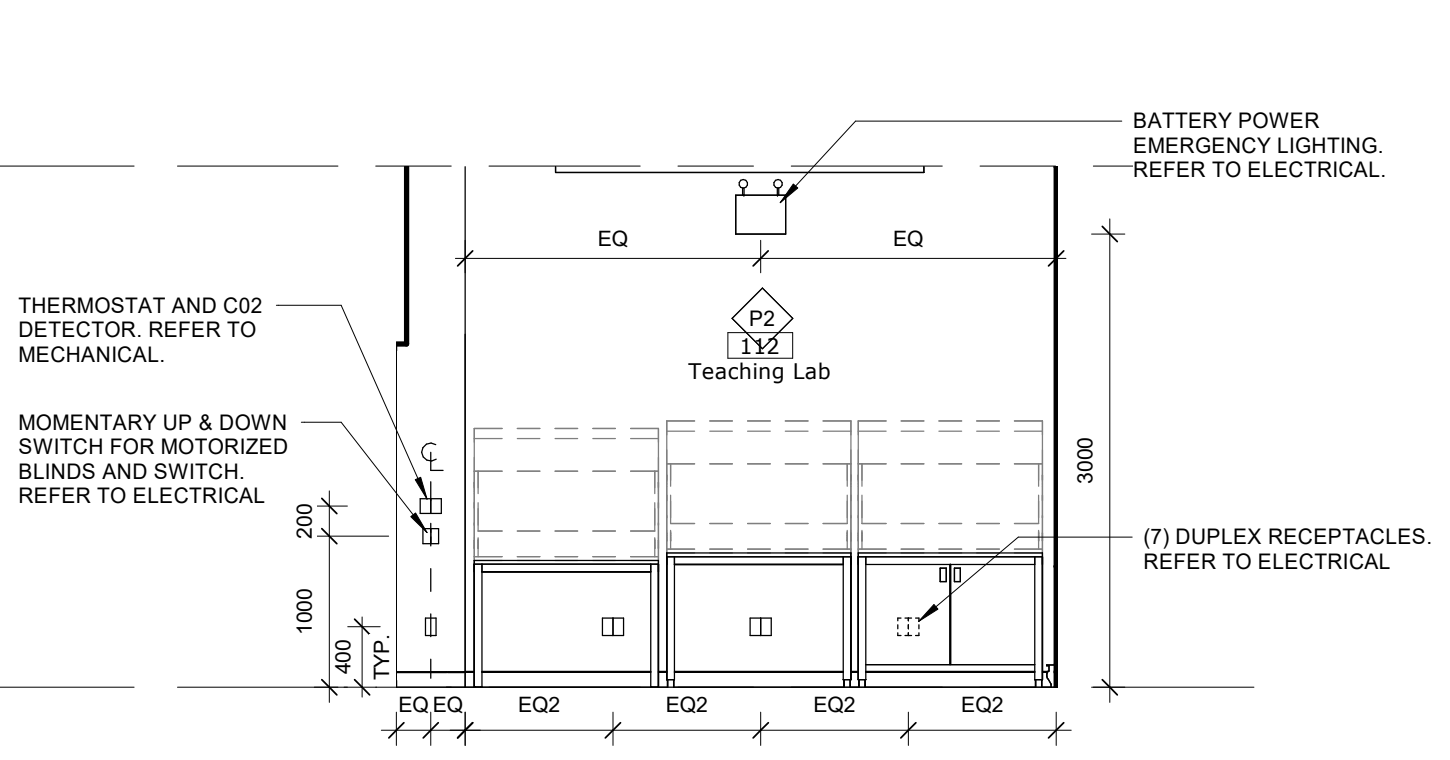
5 INT ELEV - FSC TEACHING LAB NORTH
 A702 Scale: 1 : 50



6 INT ELEV - FSC TEACHING LAB EAST
 A702 Scale: 1 : 50



7 INT ELEV - FSC TEACHING LAB SOUTH
 A702 Scale: 1 : 50



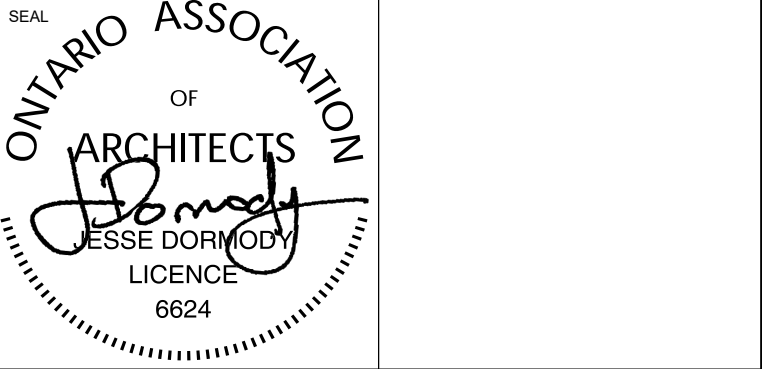
8 INT ELEV - FSC TEACHING LAB WEST
 A702 Scale: 1 : 50

CLIENT
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 Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

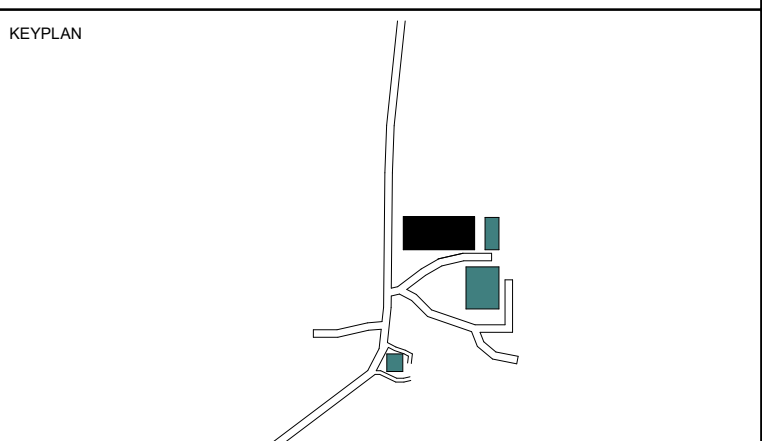
TITLE
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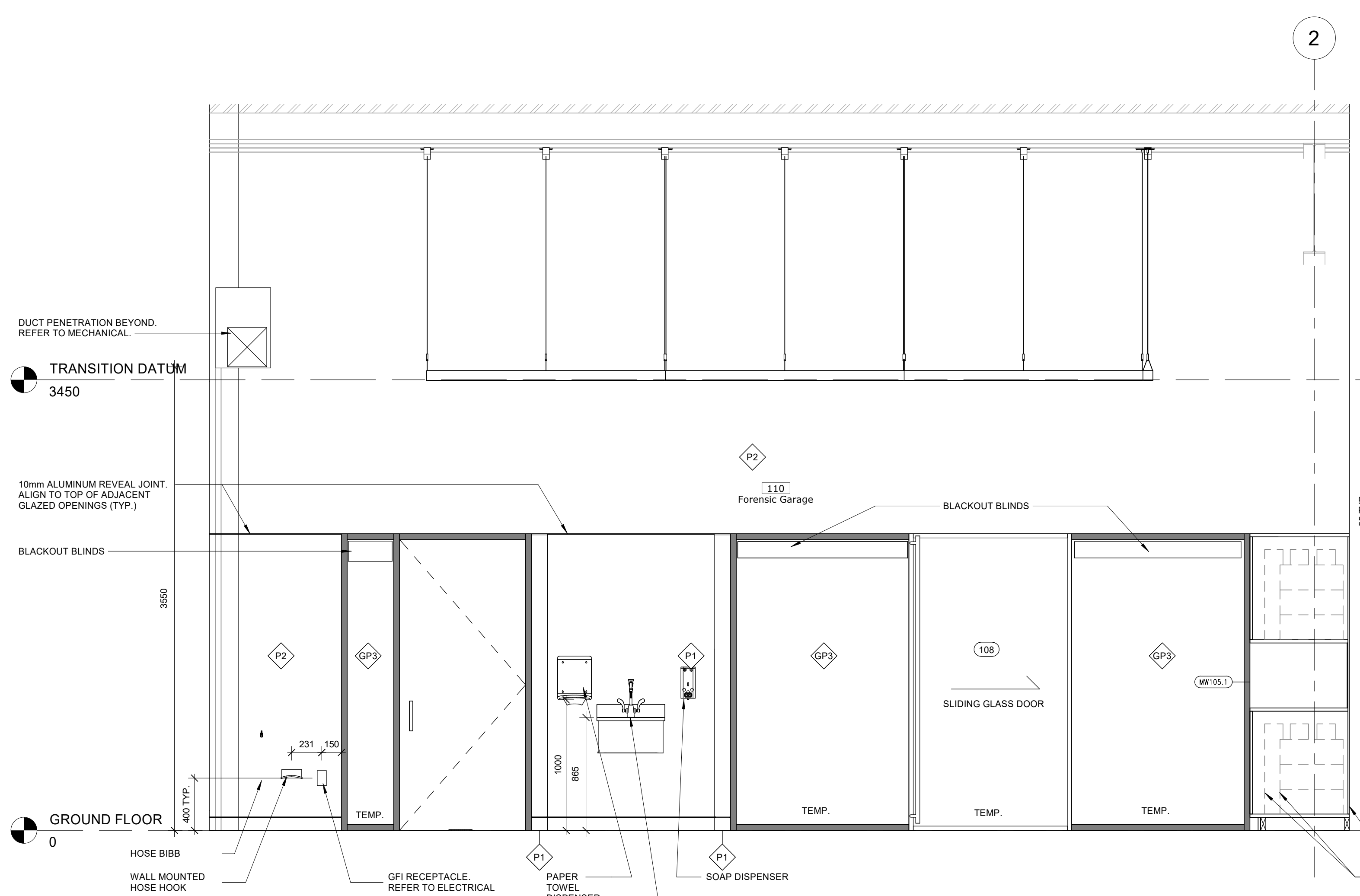


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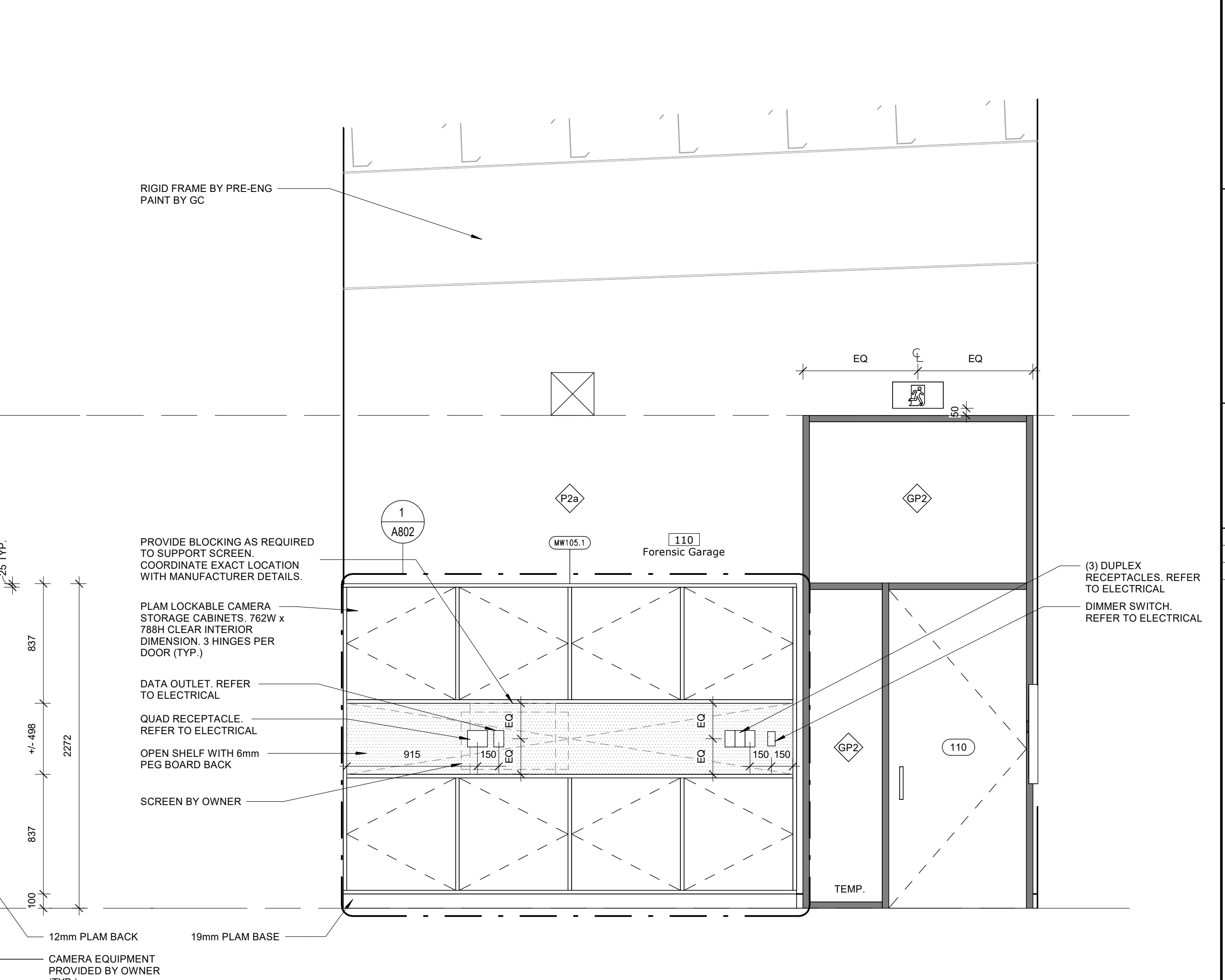
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DATE: 02/22/24	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



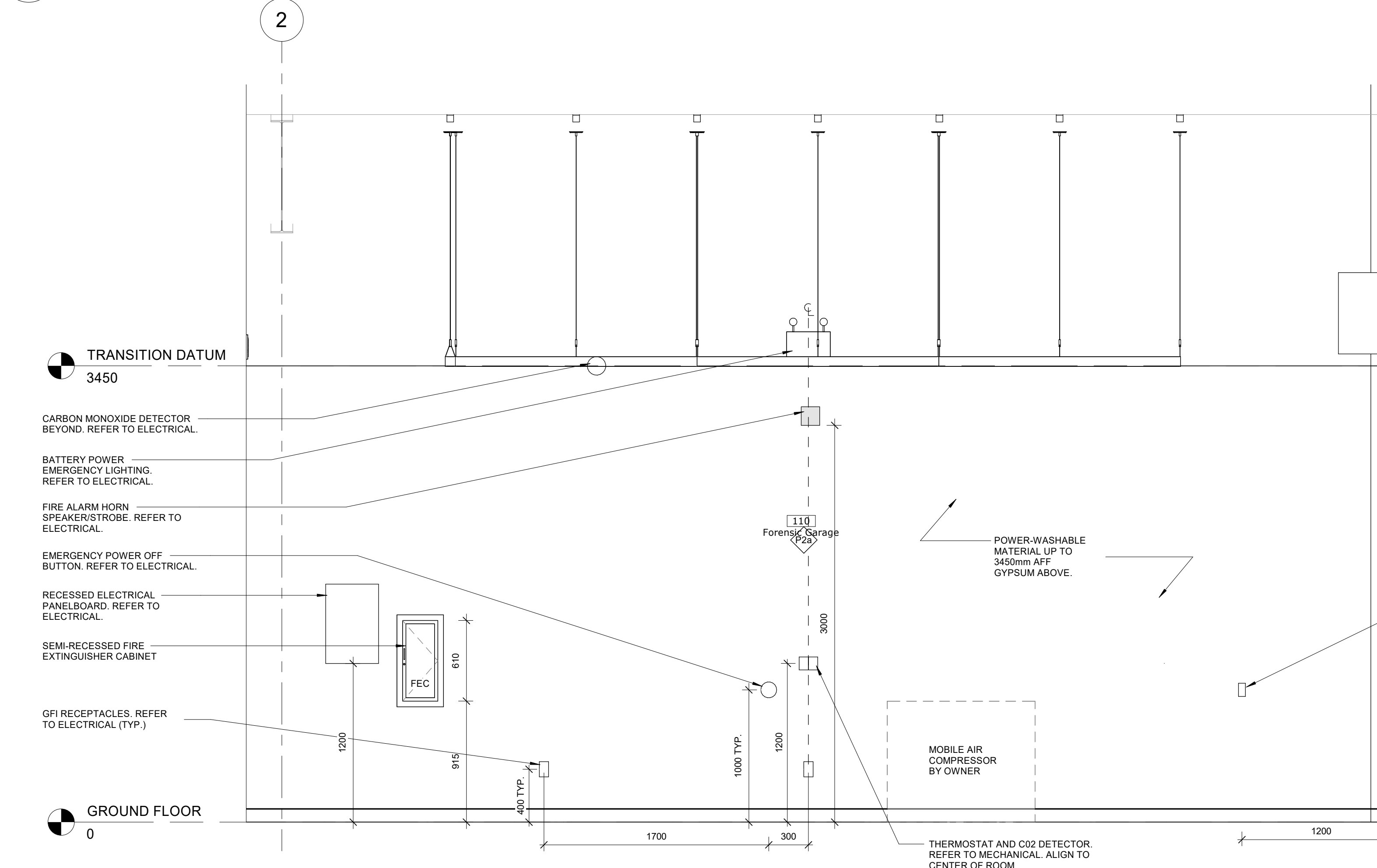
No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25



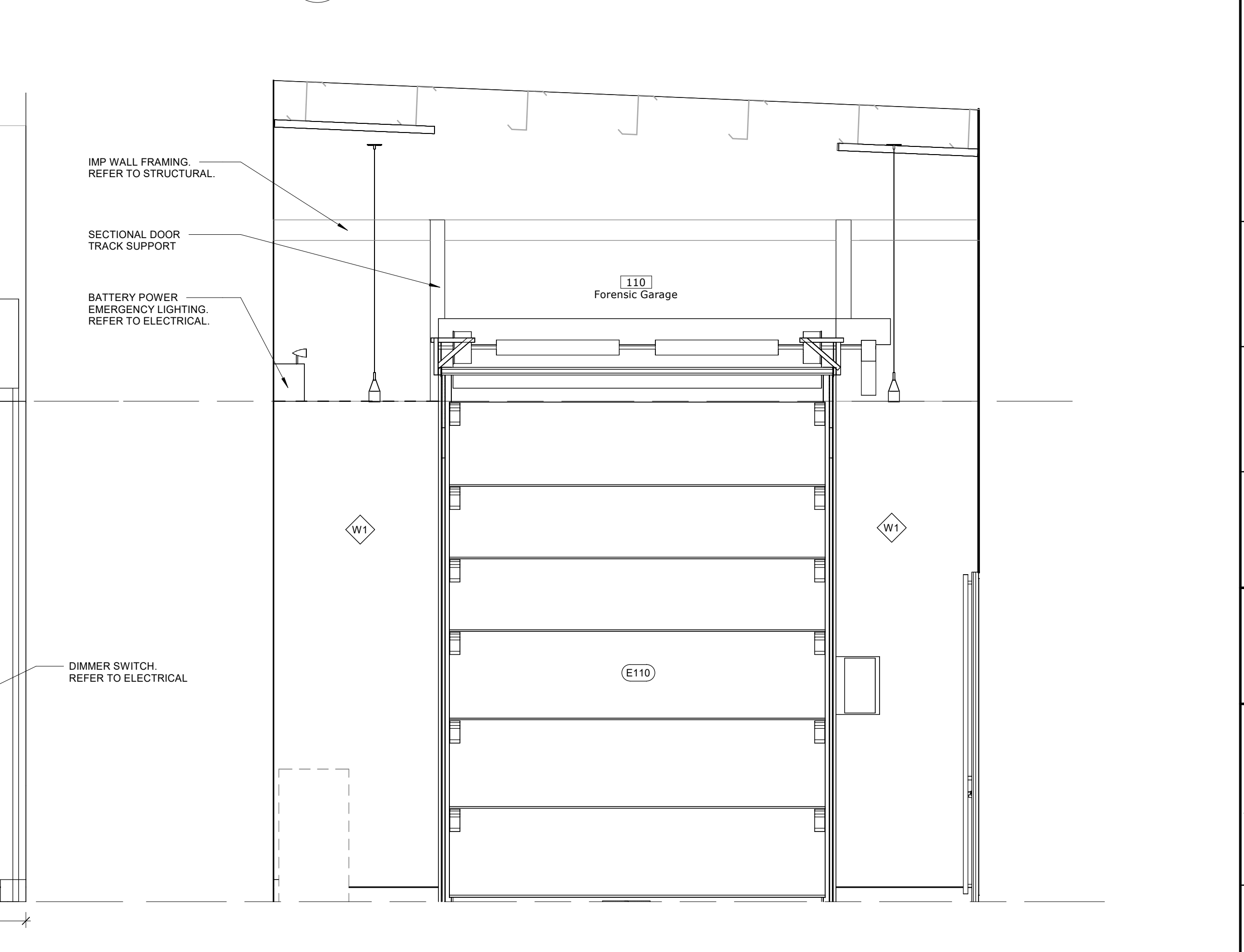
1 INT ELEV - FSC GARAGE NORTH
A703 Scale: 1 : 25



2 INT ELEV - FSC GARAGE EAST
A703 Scale: 1 : 25



3 INT ELEV - FSC GARAGE SOUTH
A703 Scale: 1 : 25



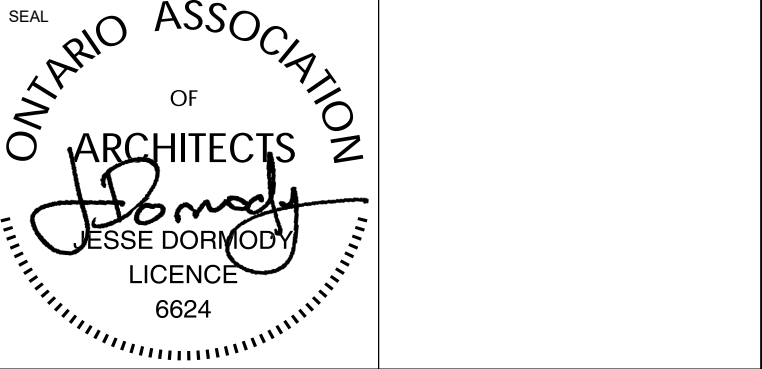
4 INT ELEV - FSC GARAGE WEST
A703 Scale: 1 : 25

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Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
INTERIOR ELEVATIONS

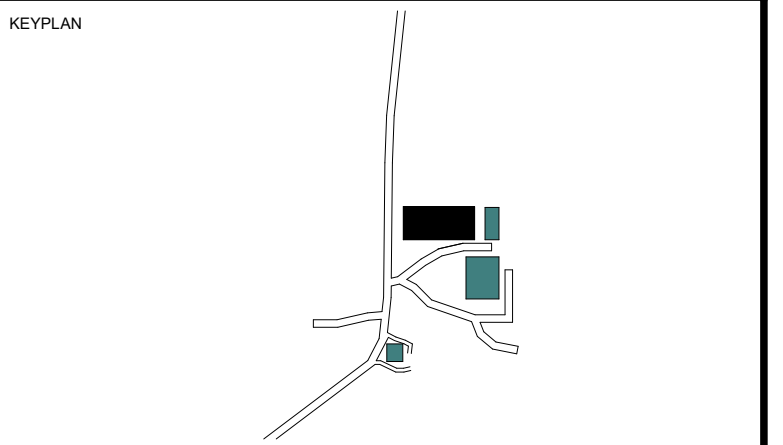
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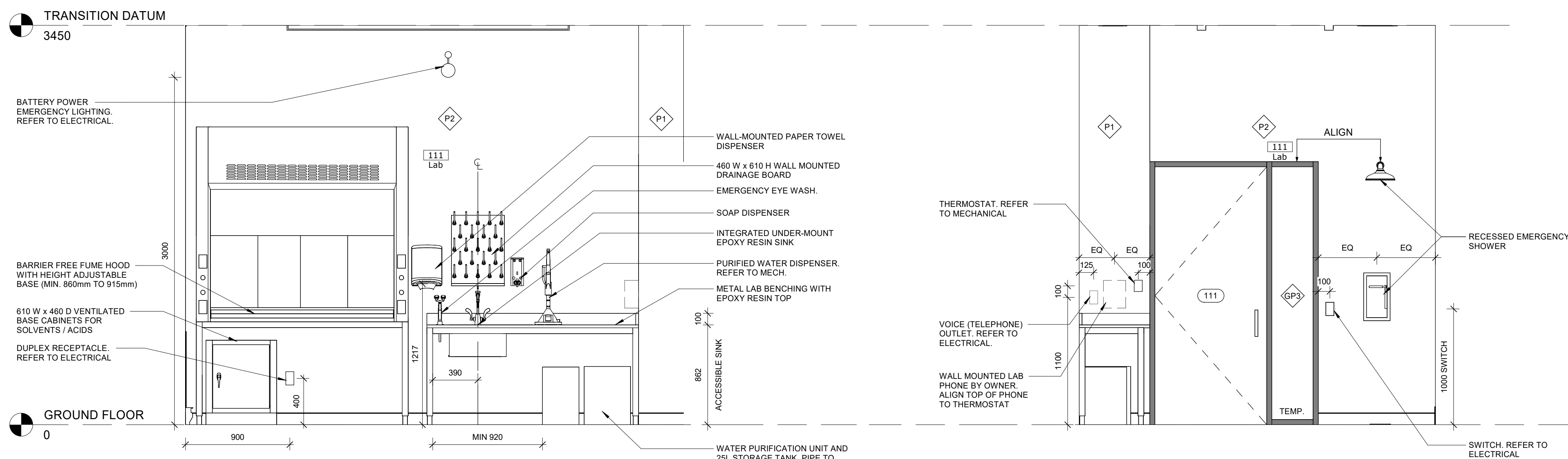
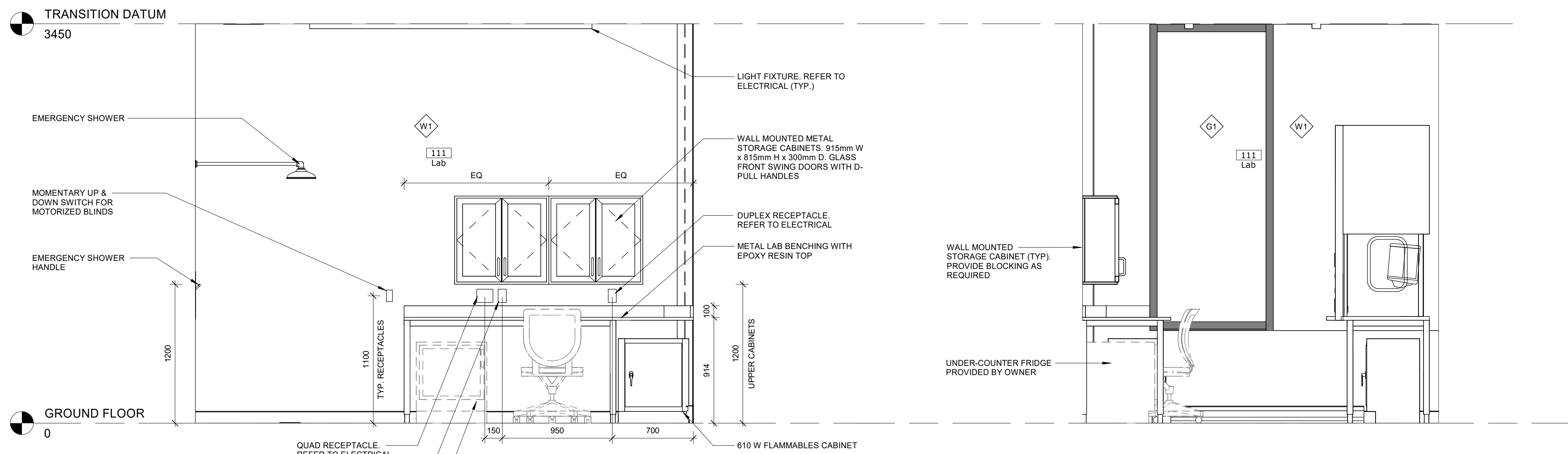
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SCALE:	1 : 25	SHEET NO.:	A703
DATE:	02/22/24		
PROJECT NO.:	2301		
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CHECKED BY:	Checker		



No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25

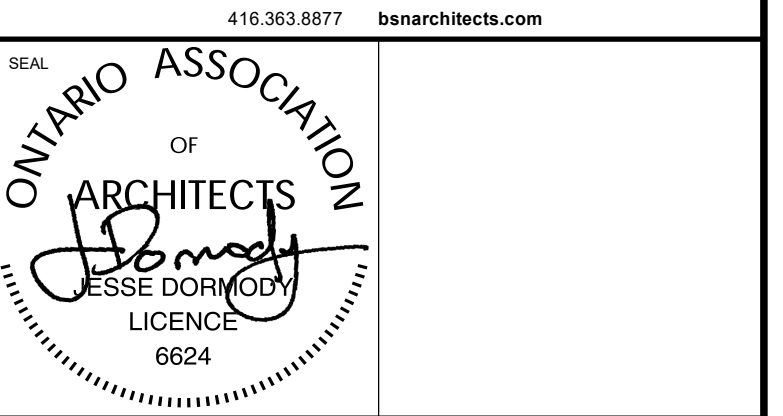


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Pre-Engineered Building
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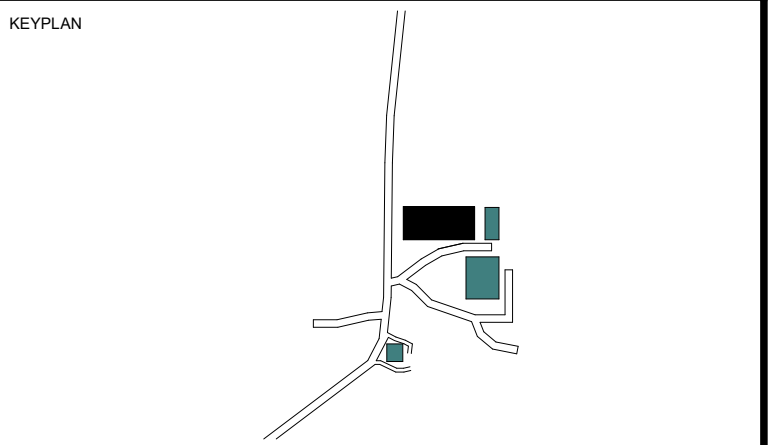
TITLE
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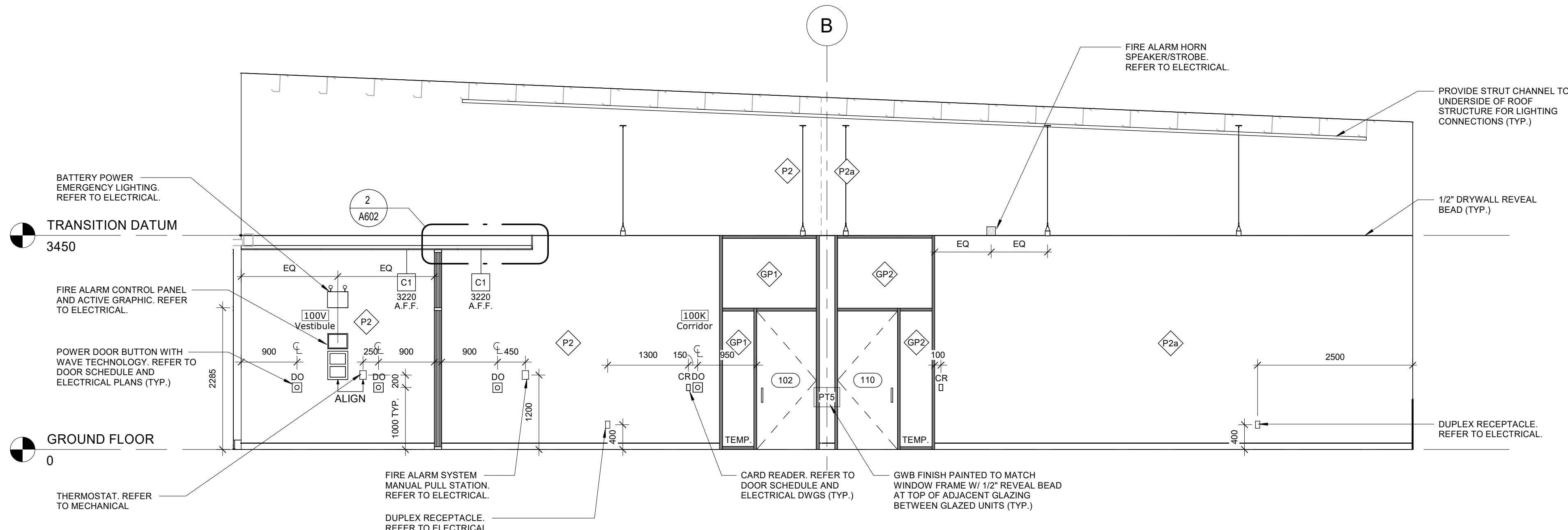


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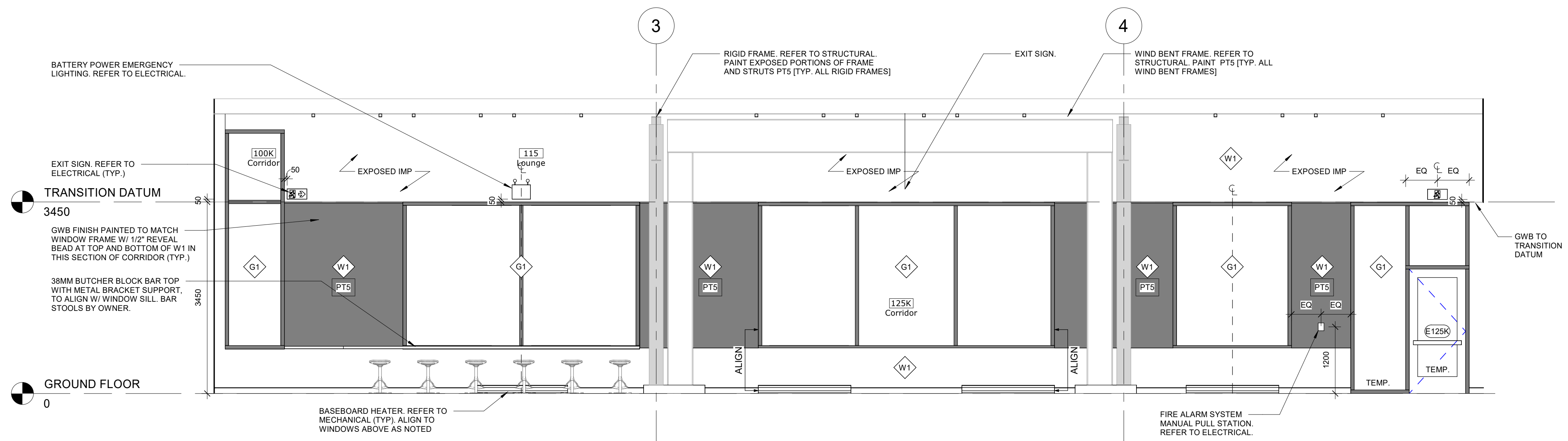
SCALE:	1 : 25	SHEET NO.:	A704
DATE:	02/13/24		
PROJECT NO.:	2301		
DRAWN BY:	Author		
CHECKED BY:	Checker		



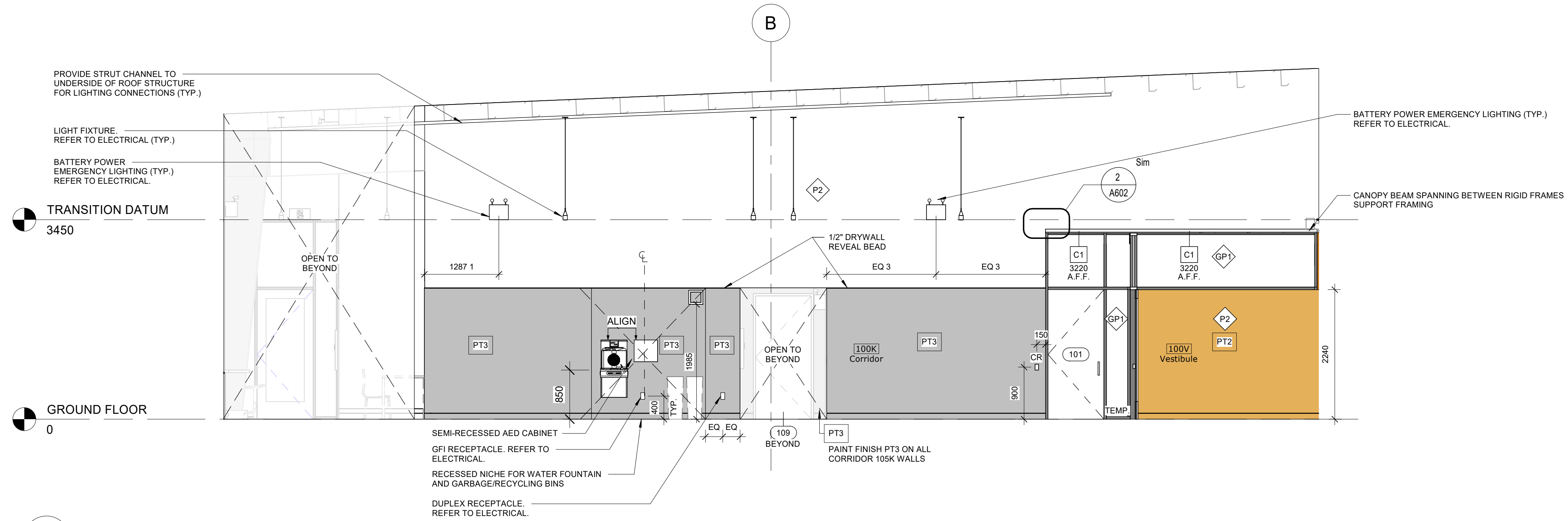
No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25



1 INT ELEV - CORRIDOR WEST
A705 Scale: 1 : 50



2 INT ELEV - CORRIDOR NORTH
A705 Scale: 1 : 50



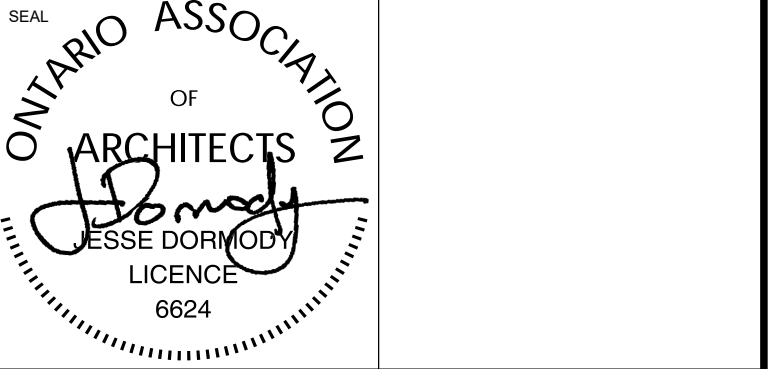
3 INT ELEV - CORRIDOR EAST
A705 Scale: 1 : 50

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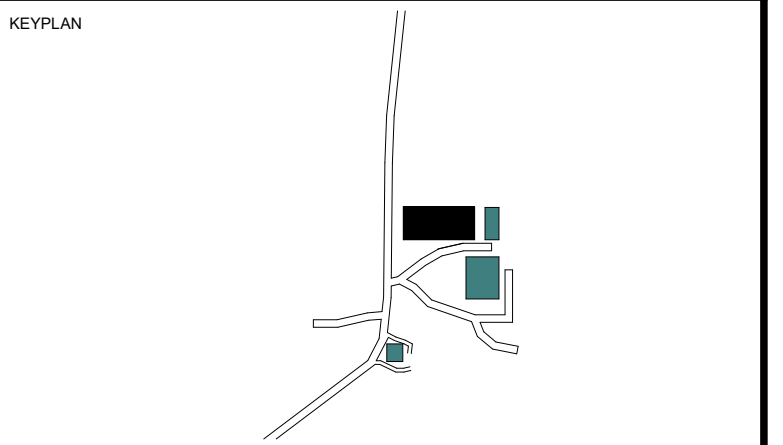
TITLE
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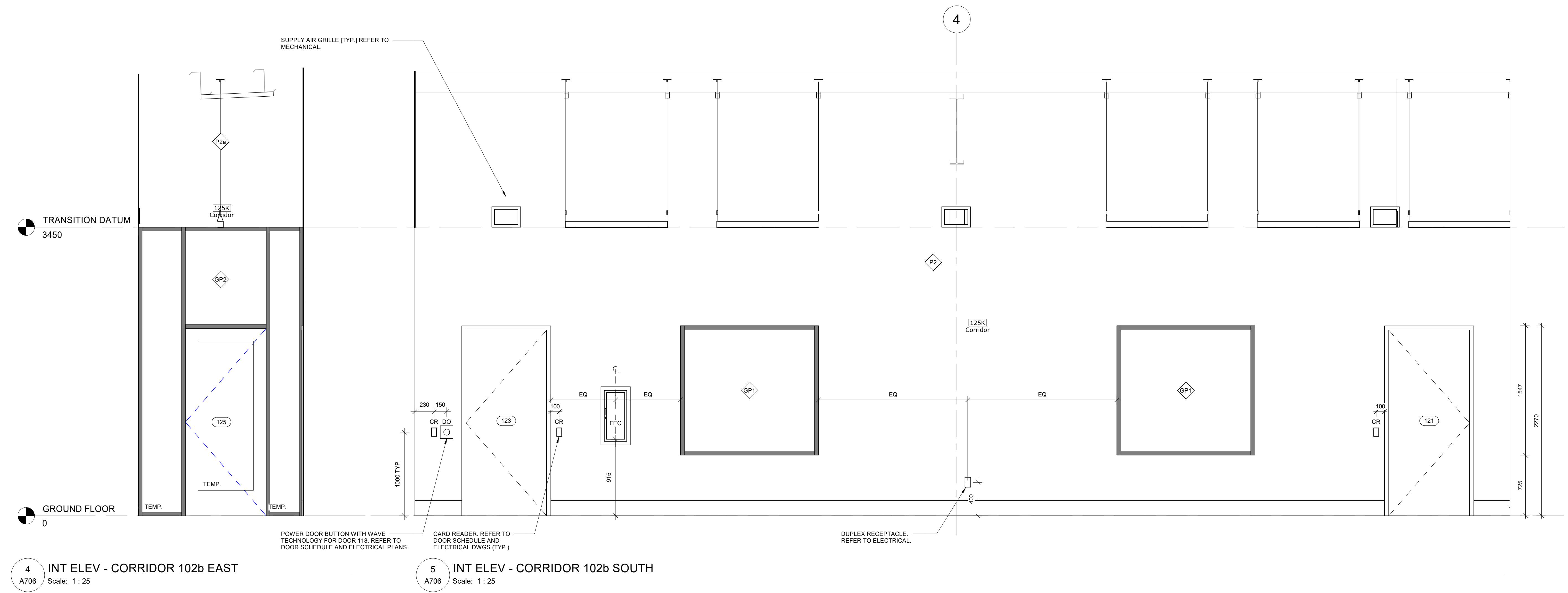
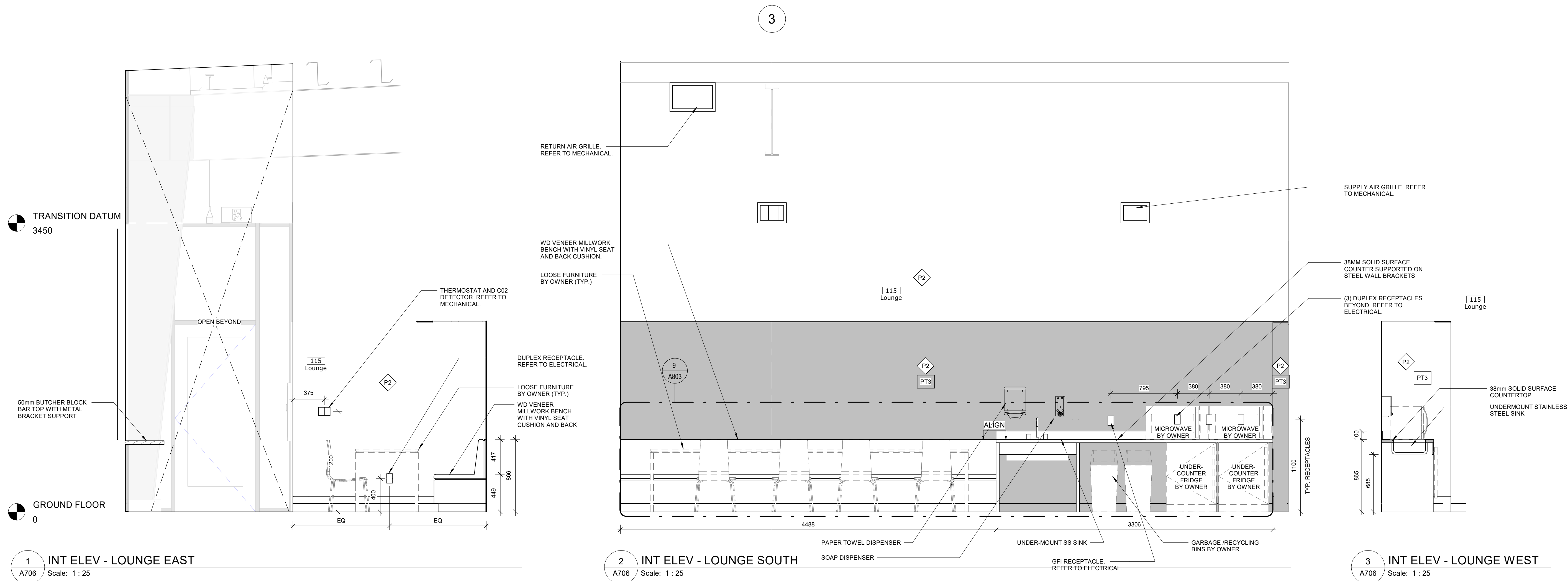


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SCALE: 1 : 50	SHEET NO: A705
DATE: 02/13/24	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25

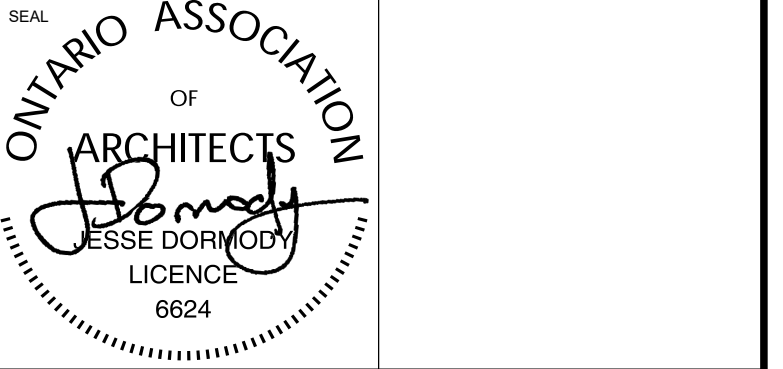


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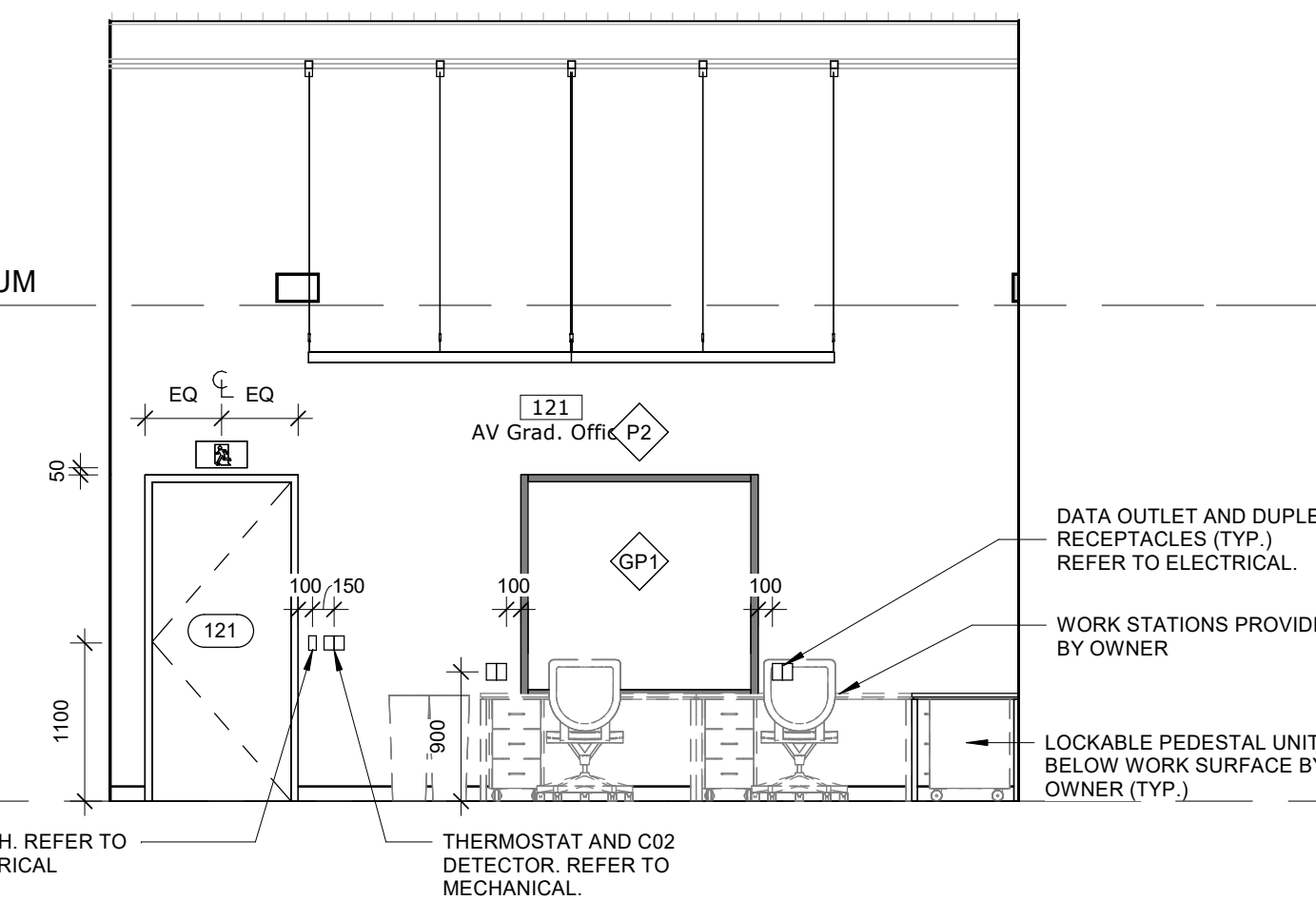


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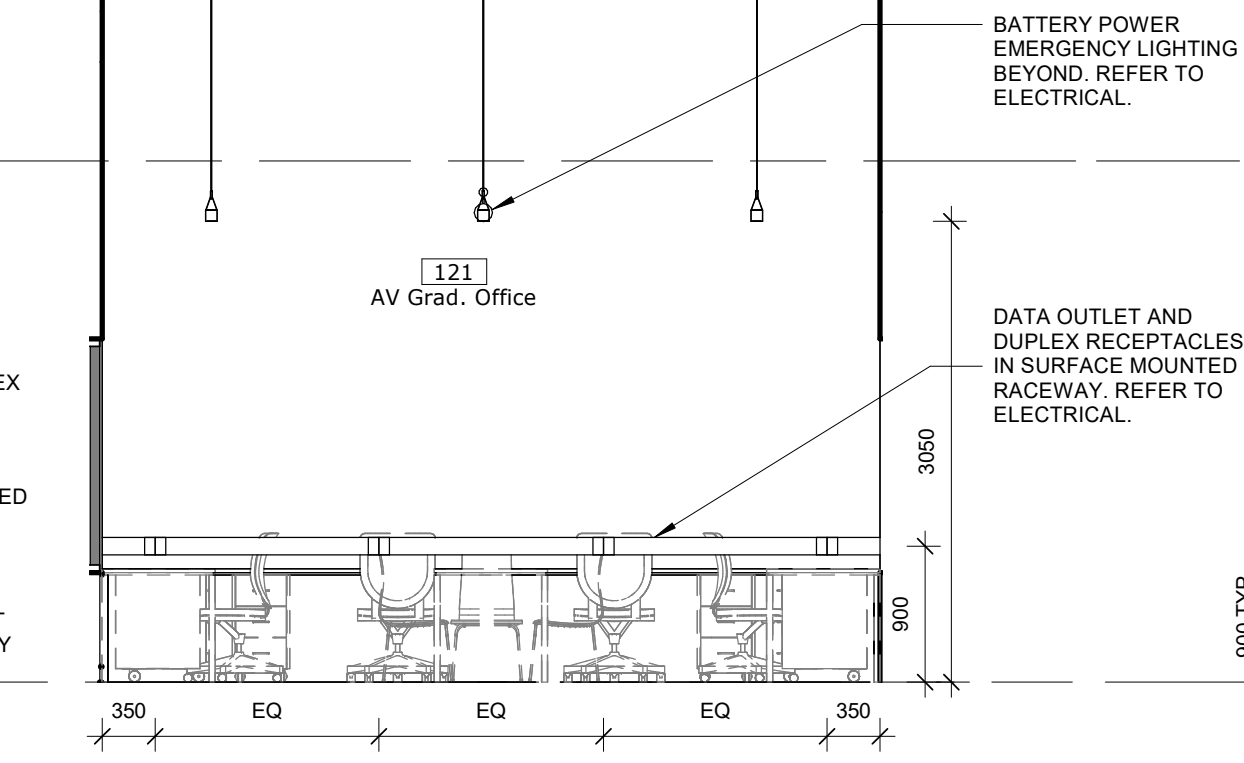
SCALE: 1 : 25	SHEET NO: A706
DATE: 02/22/24	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	

TRANSITION DATUM
3450

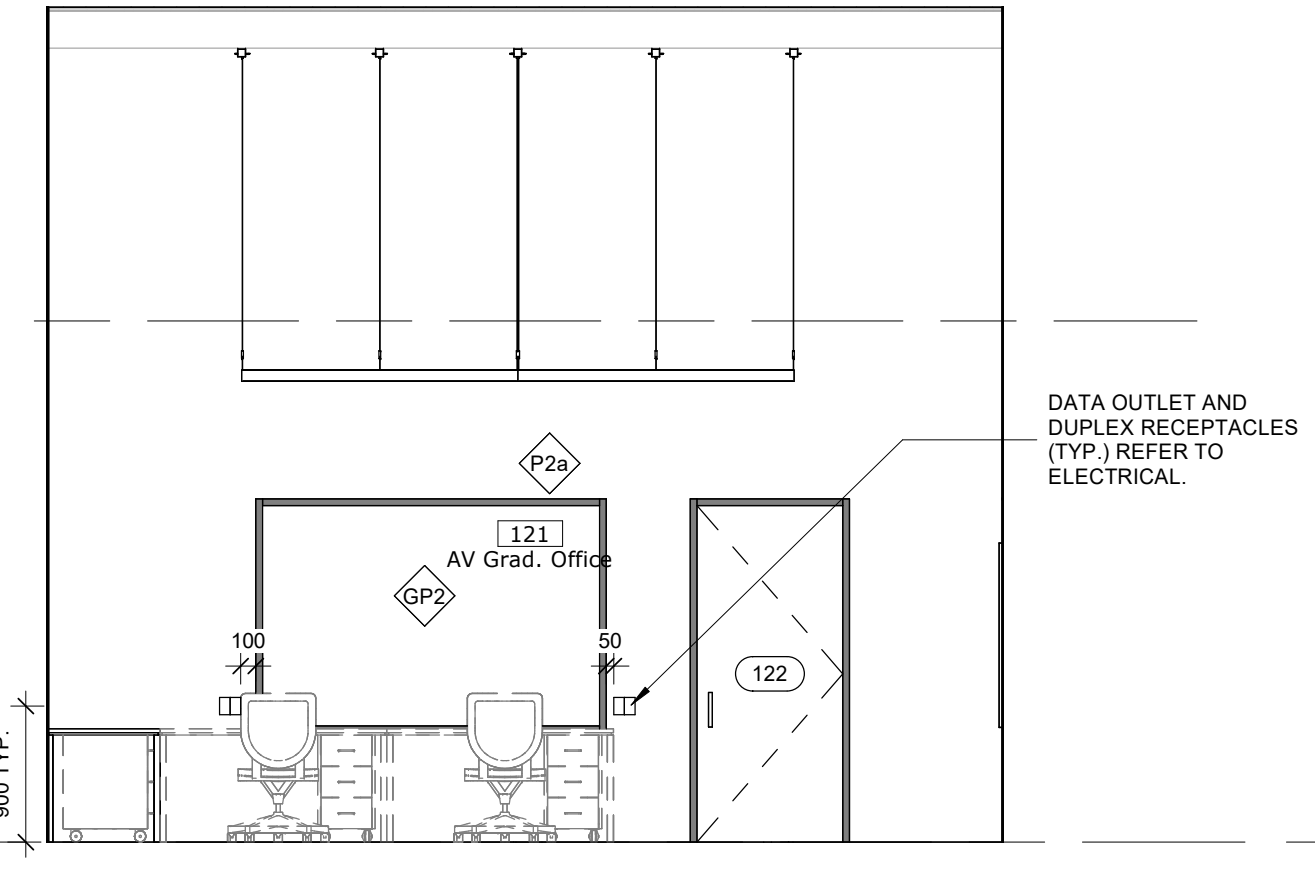
GROUND FLOOR
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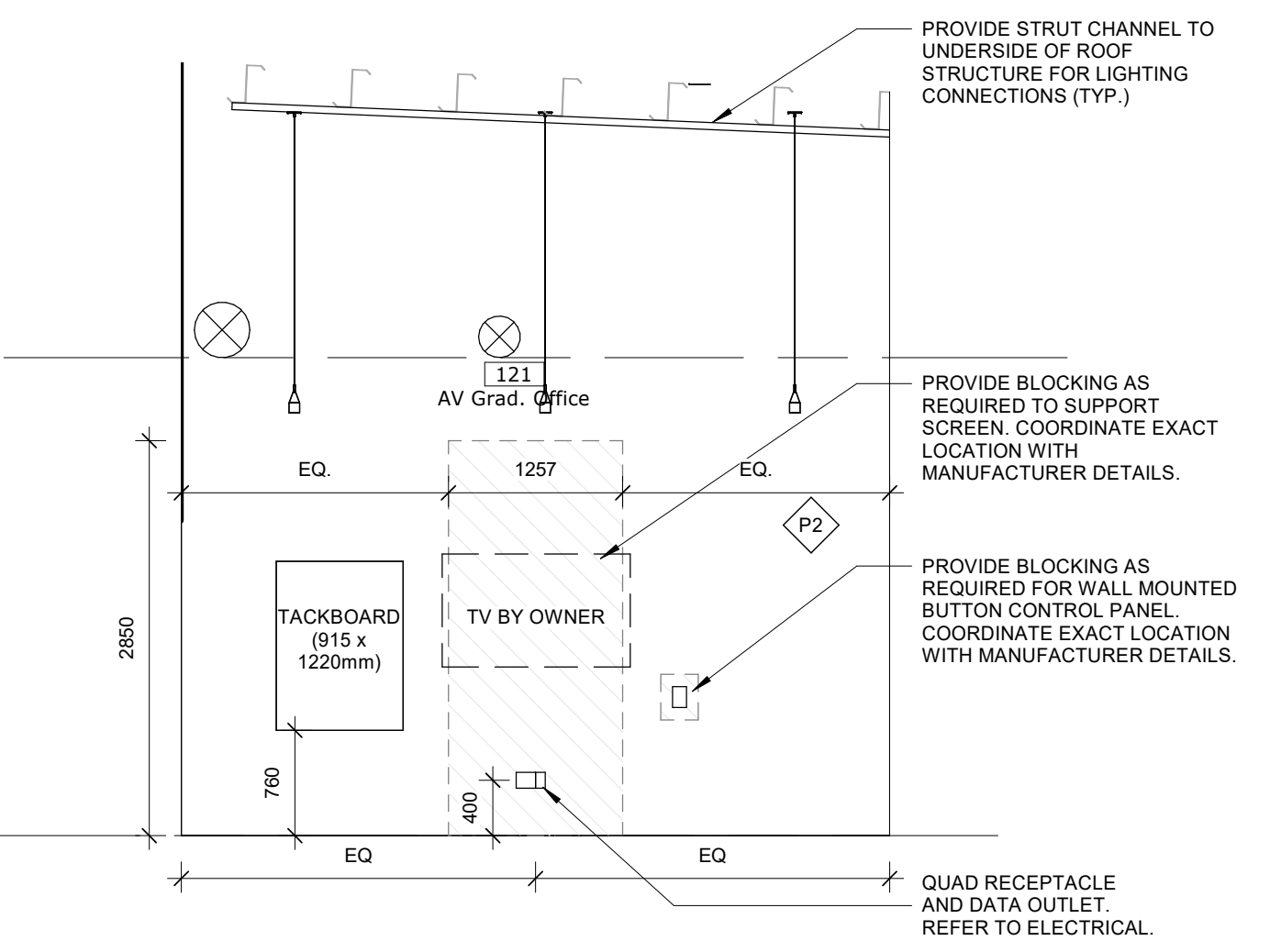
1 INT ELEV - AV GRAD OFFICE NORTH
A707 Scale: 1 : 50



2 INT ELEV - AV GRAD OFFICE EAST
A707 Scale: 1 : 50



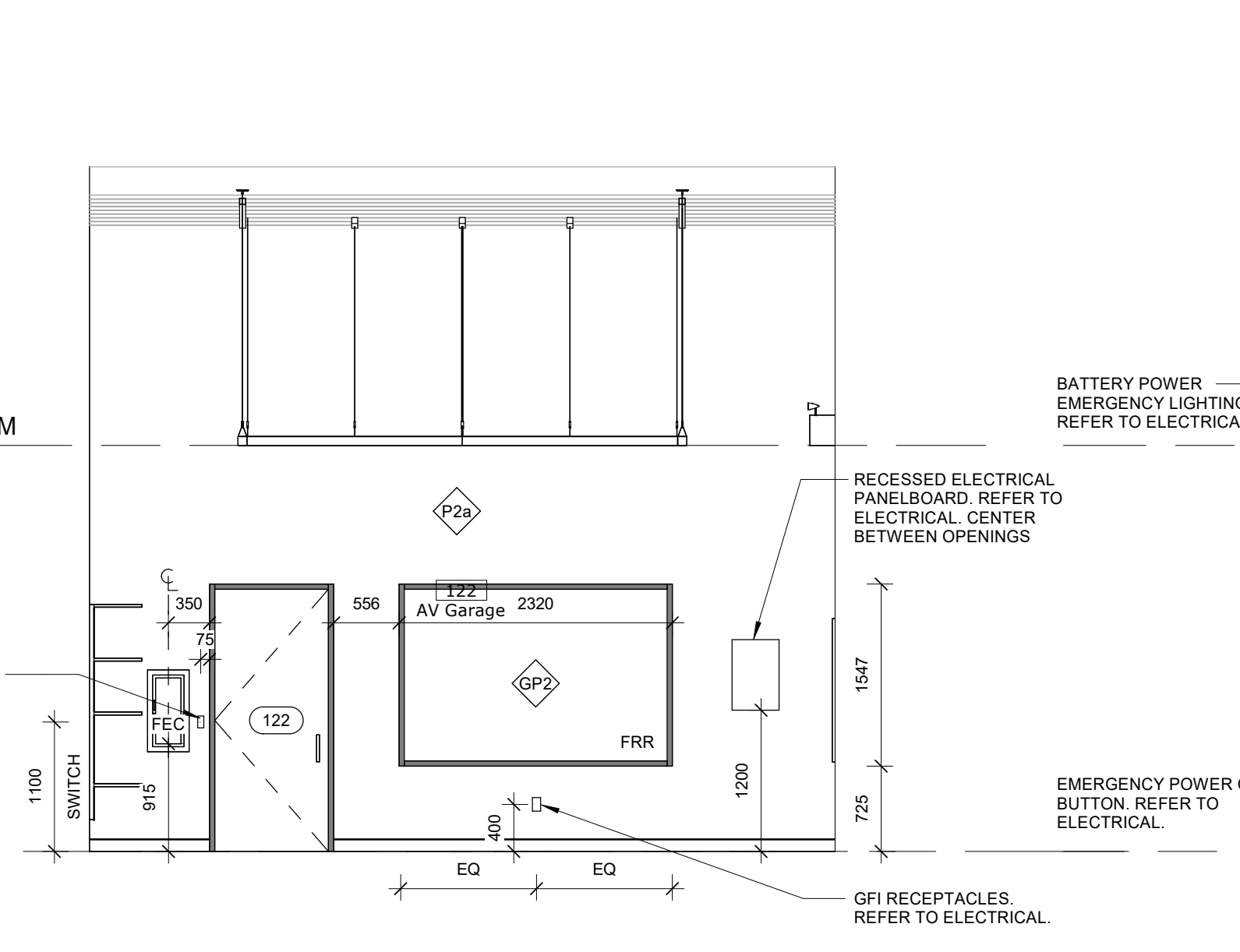
3 INT ELEV - AV GRAD OFFICE SOUTH
A707 Scale: 1 : 50



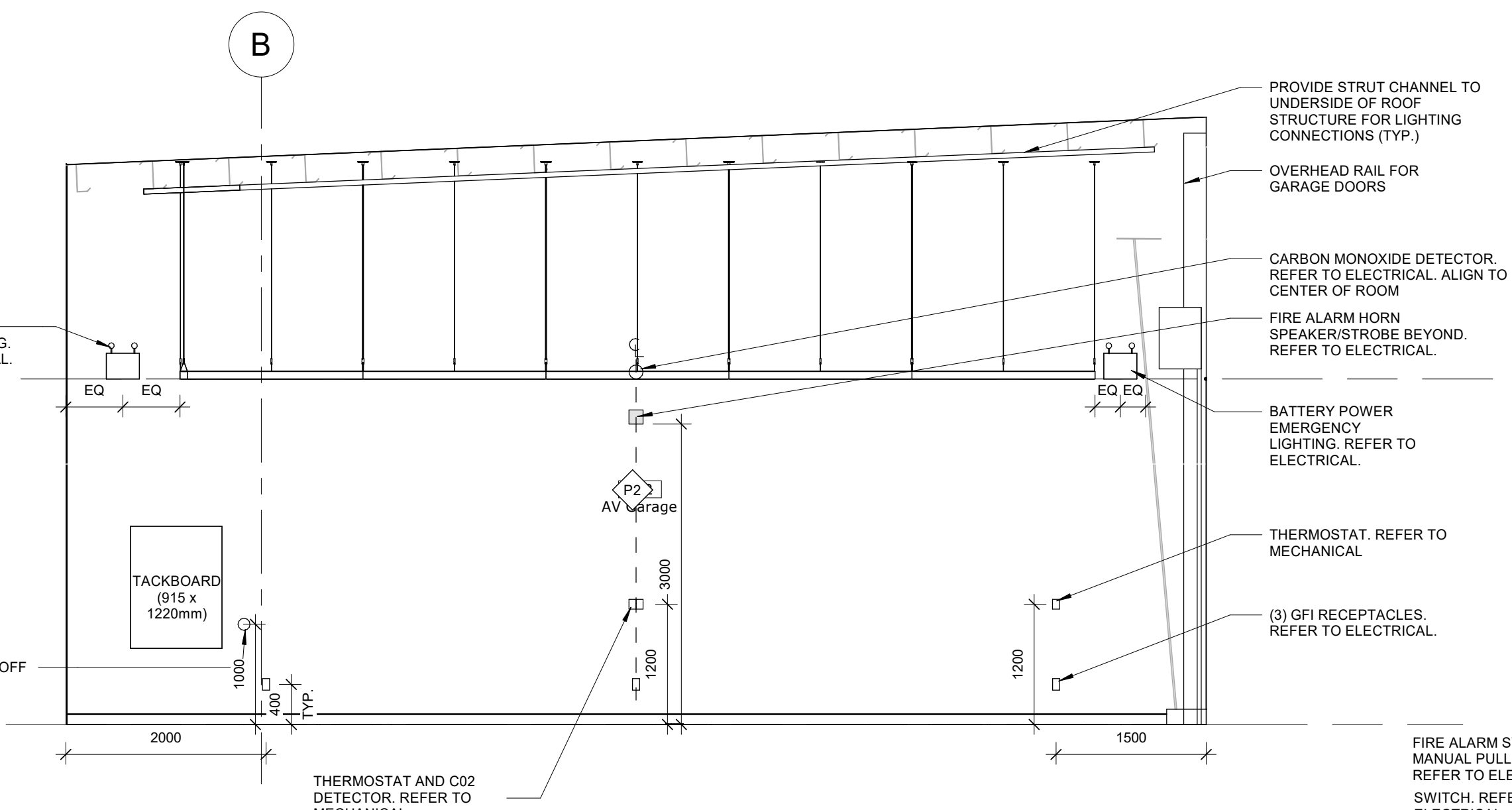
4 INT ELEV - AV GRAD OFFICE WEST
A707 Scale: 1 : 50

TRANSITION DATUM
3450

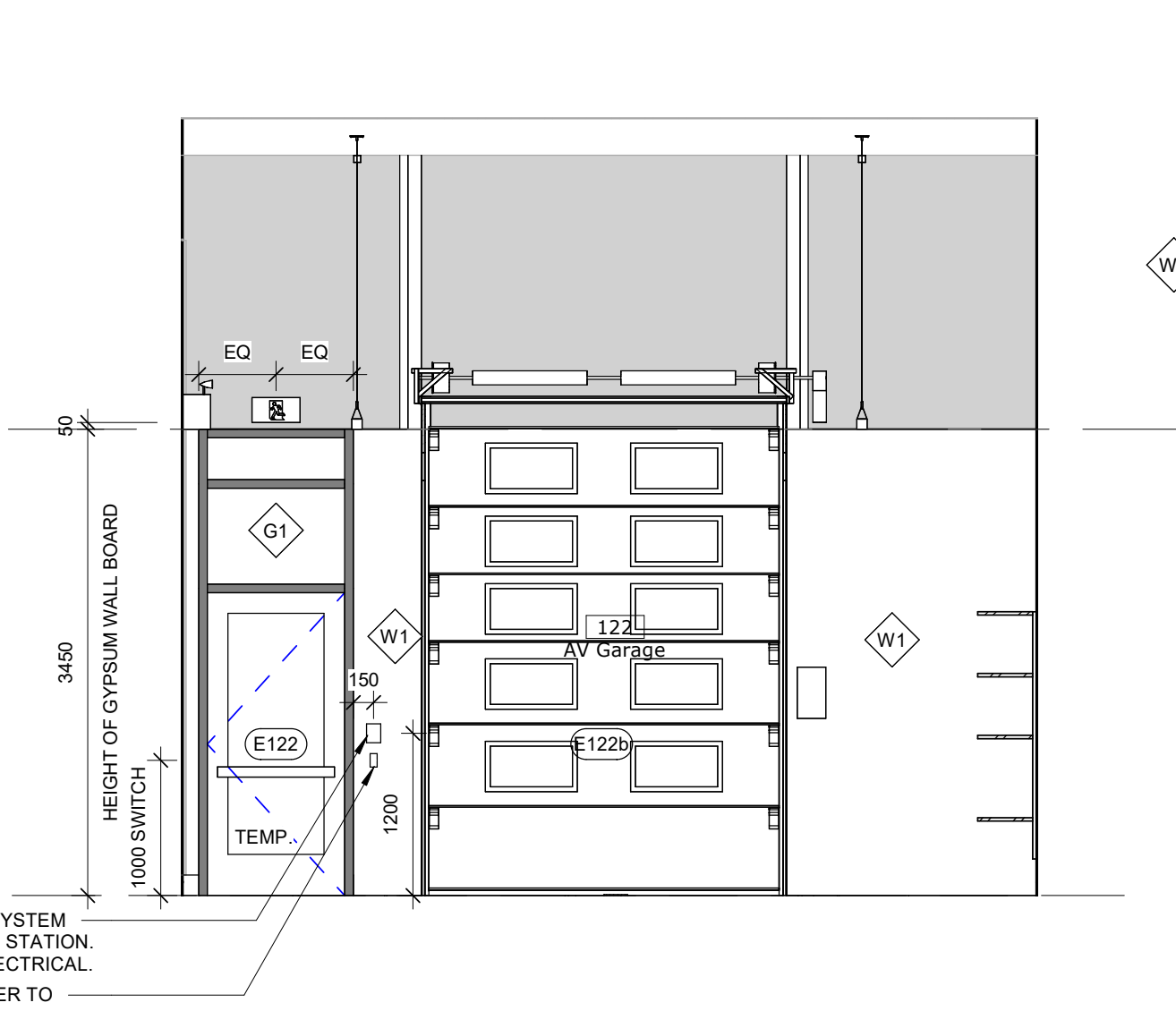
GROUND FLOOR
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5 INT ELEV - AV GARAGE NORTH
A707 Scale: 1 : 50



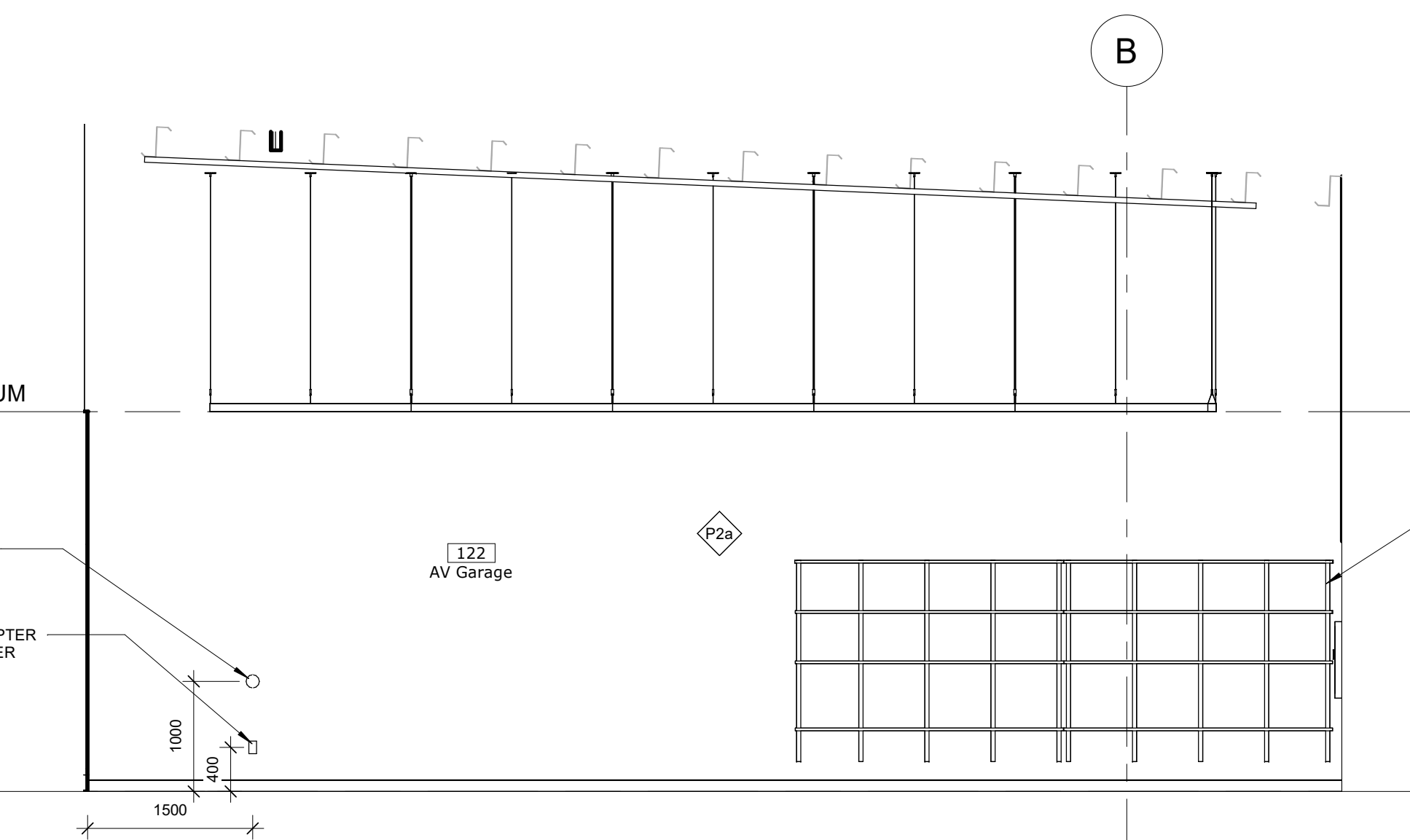
6 INT ELEV - AV GARAGE EAST
A707 Scale: 1 : 50



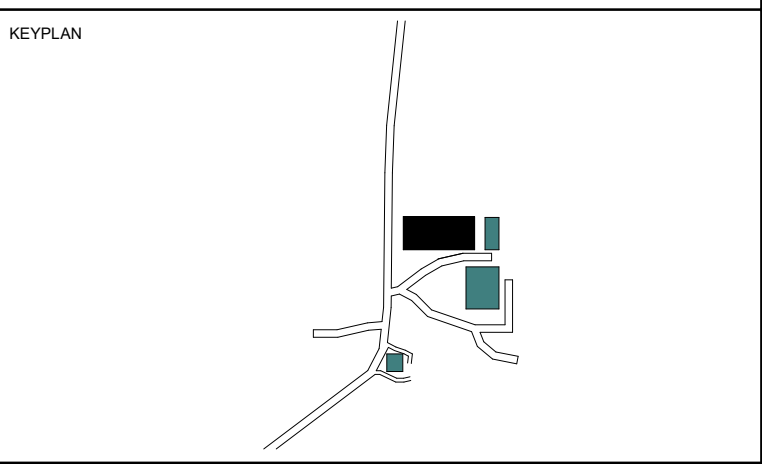
7 INT ELEV - AV GARAGE SOUTH
A707 Scale: 1 : 50

TRANSITION DATUM
3450

GROUND FLOOR
0



8 INT ELEV - AV GARAGE WEST
A707 Scale: 1 : 50



No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25

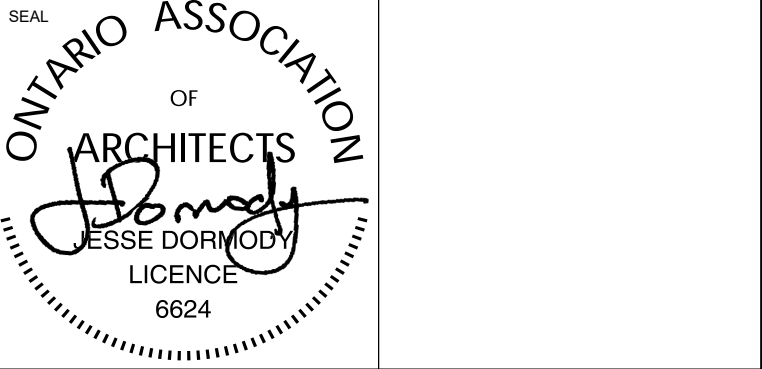
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
INTERIOR ELEVATIONS

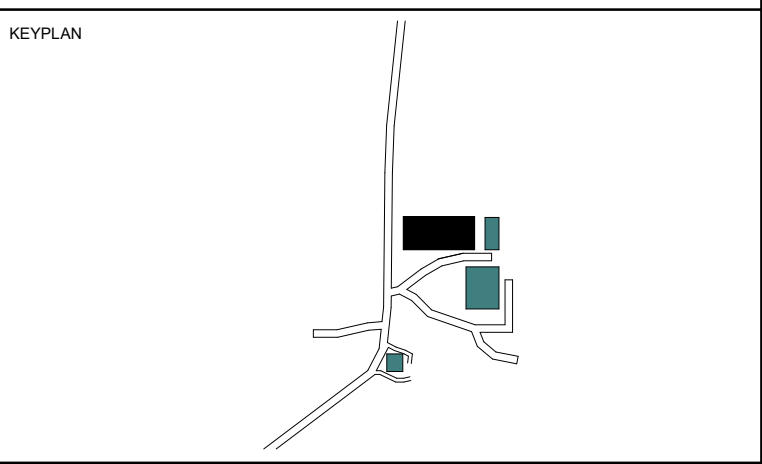
architects
Baird Sampson Neuert

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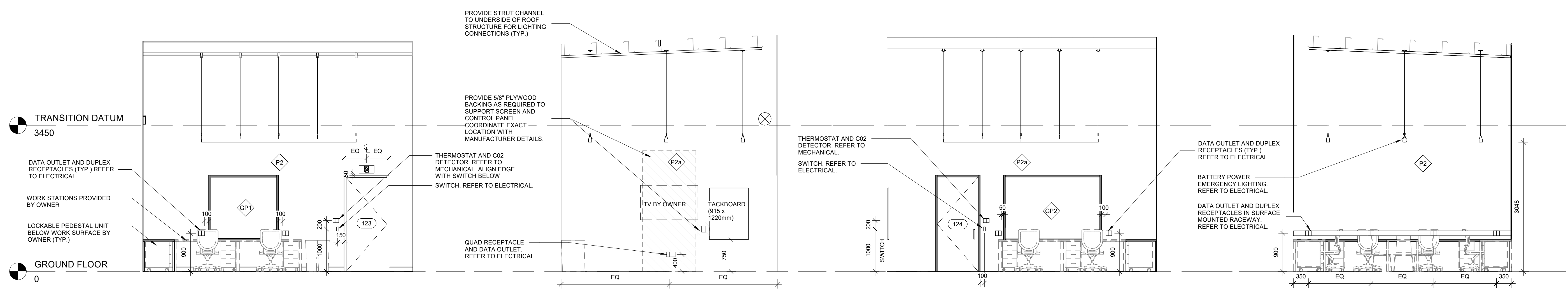


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SCALE:	1 : 50	SHEET NO.:	A707
DATE:	02/22/24		
PROJECT NO.:	2301		
DRAWN BY:	Author		
CHECKED BY:	Checker		



No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25

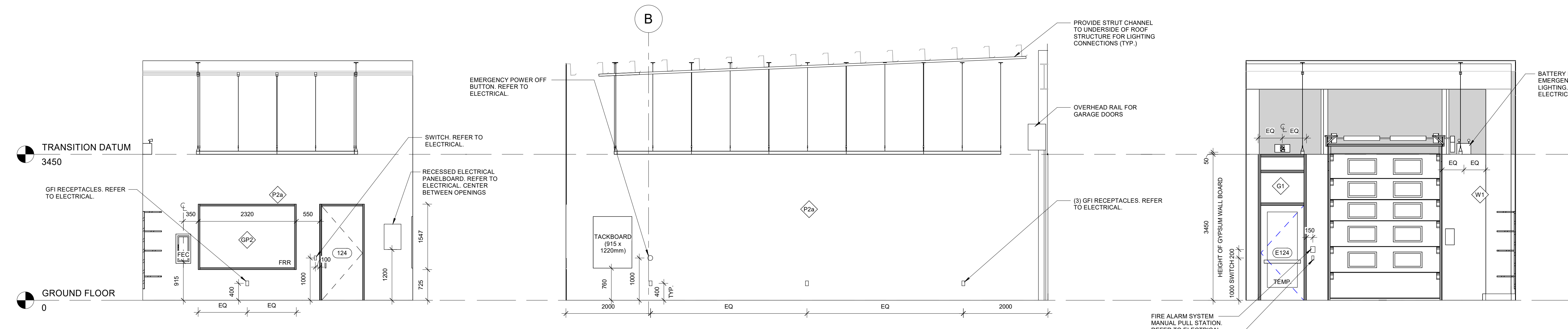


1 INT ELEV - FLEX OFFICE NORTH
 A708 Scale: 1 : 50

2 INT ELEV - FLEX OFFICE EAST
 A708 Scale: 1 : 50

3 INT ELEV - FLEX OFFICE SOUTH
 A708 Scale: 1 : 50

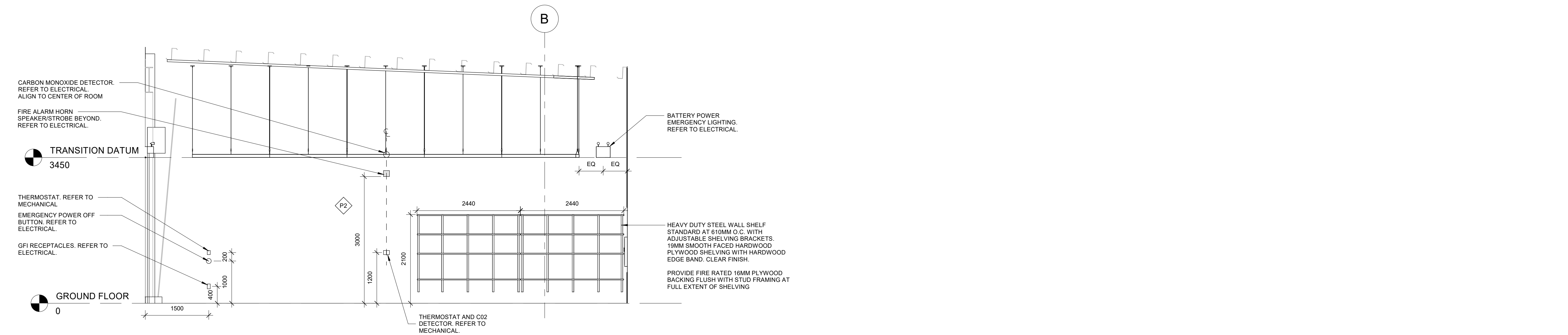
4 INT ELEV - FLEX OFFICE WEST
 A708 Scale: 1 : 50



5 INT ELEV - FLEX GARAGE NORTH
 A708 Scale: 1 : 50

6 INT ELEV - FLEX GARAGE EAST
 A708 Scale: 1 : 50

7 INT ELEV - FLEX GARAGE SOUTH
 A708 Scale: 1 : 50



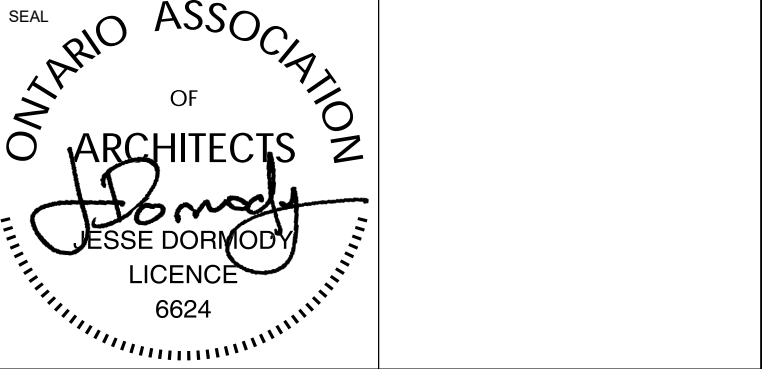
8 INT ELEV - FLEX GARAGE WEST
 A708 Scale: 1 : 50

CLIENT
 University of Toronto Mississauga

PROJECT
Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

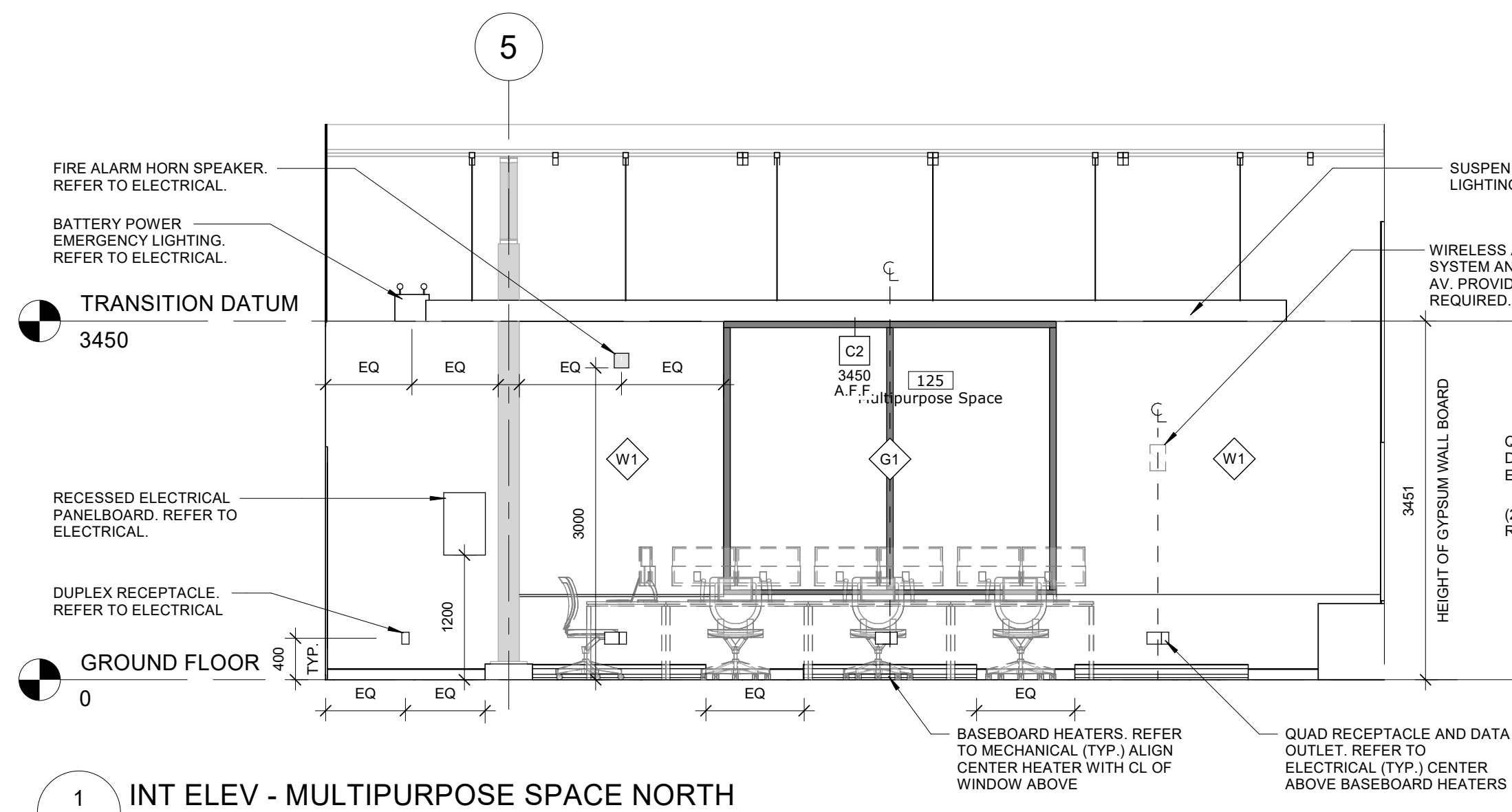
TITLE
INTERIOR ELEVATIONS

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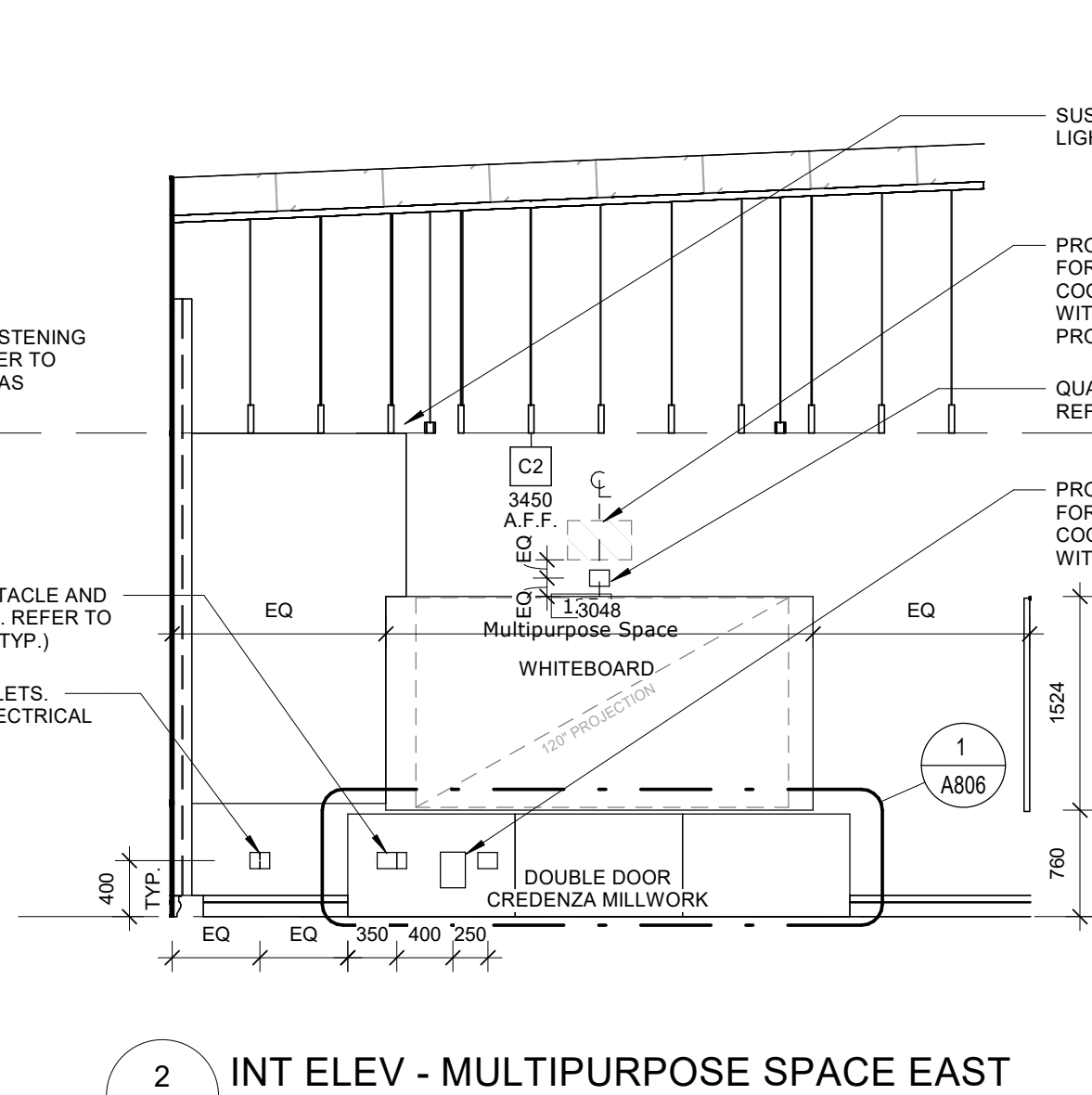


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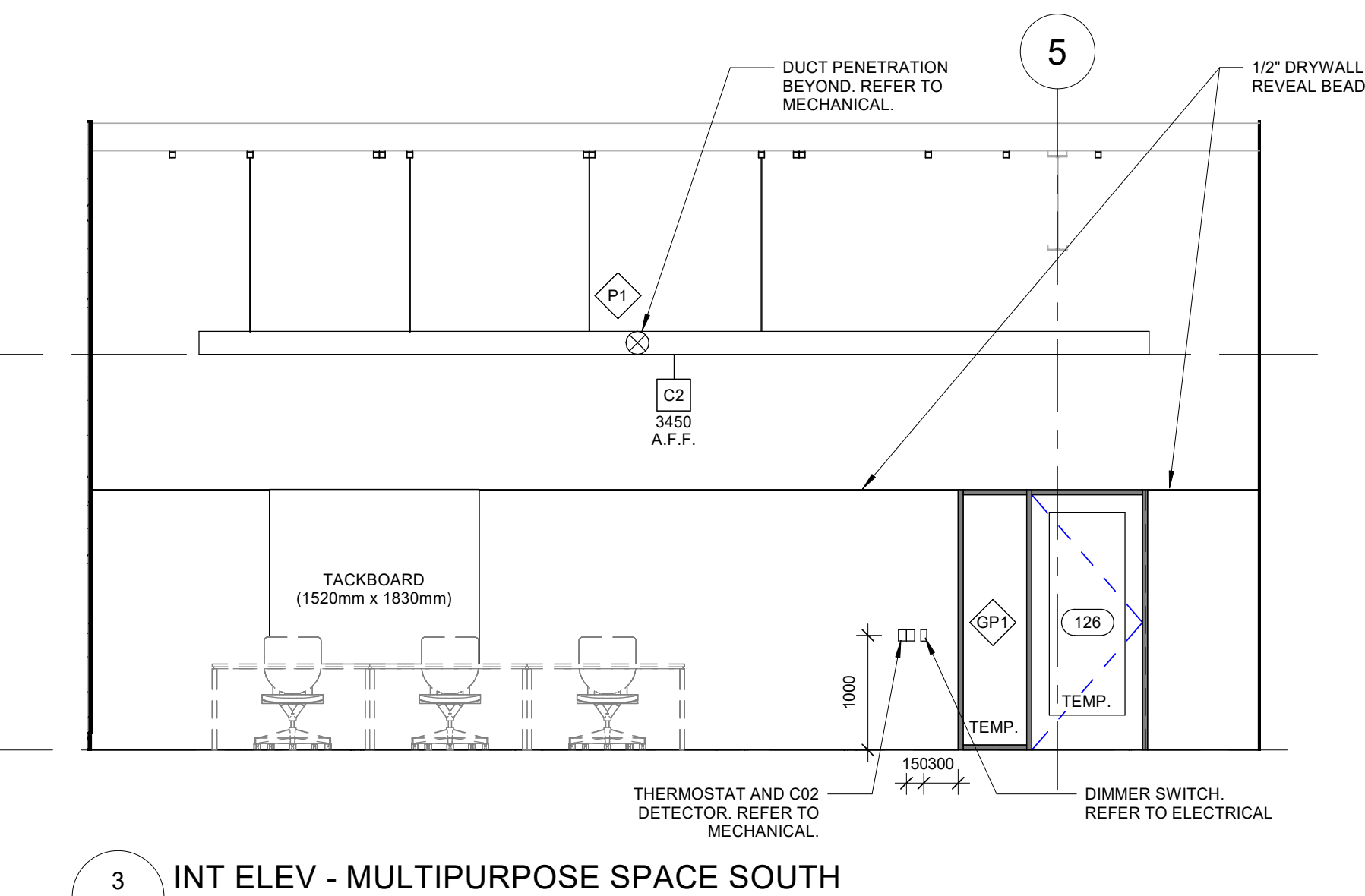
SCALE:	1 : 50	SHEET NO.:	A708
DATE:	02/22/24		
PROJECT NO.:	2301		
DRAWN BY:	Author		
CHECKED BY:	Checker		



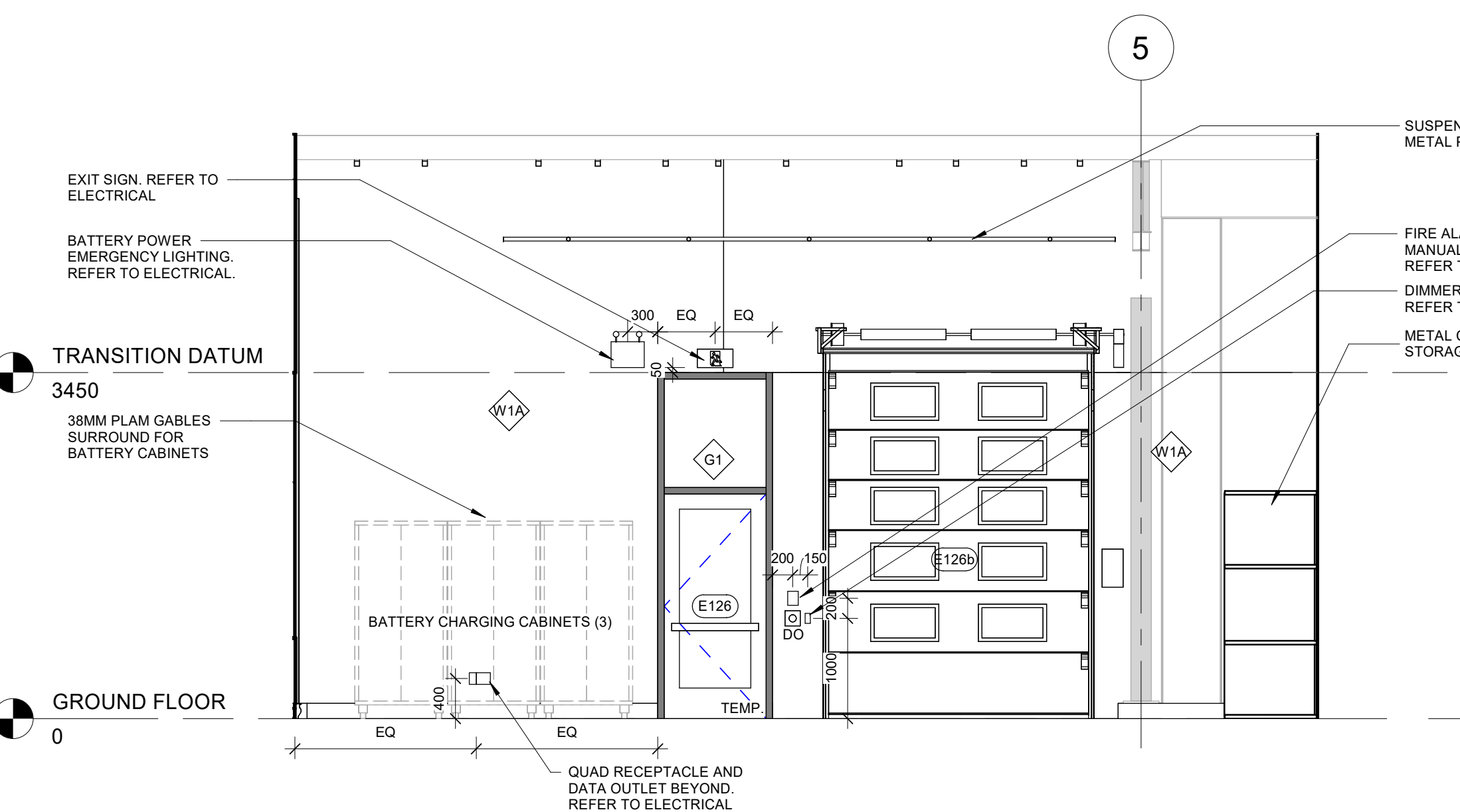
1 INT ELEV - MULTIPURPOSE SPACE NORTH
A709 Scale: 1 : 50



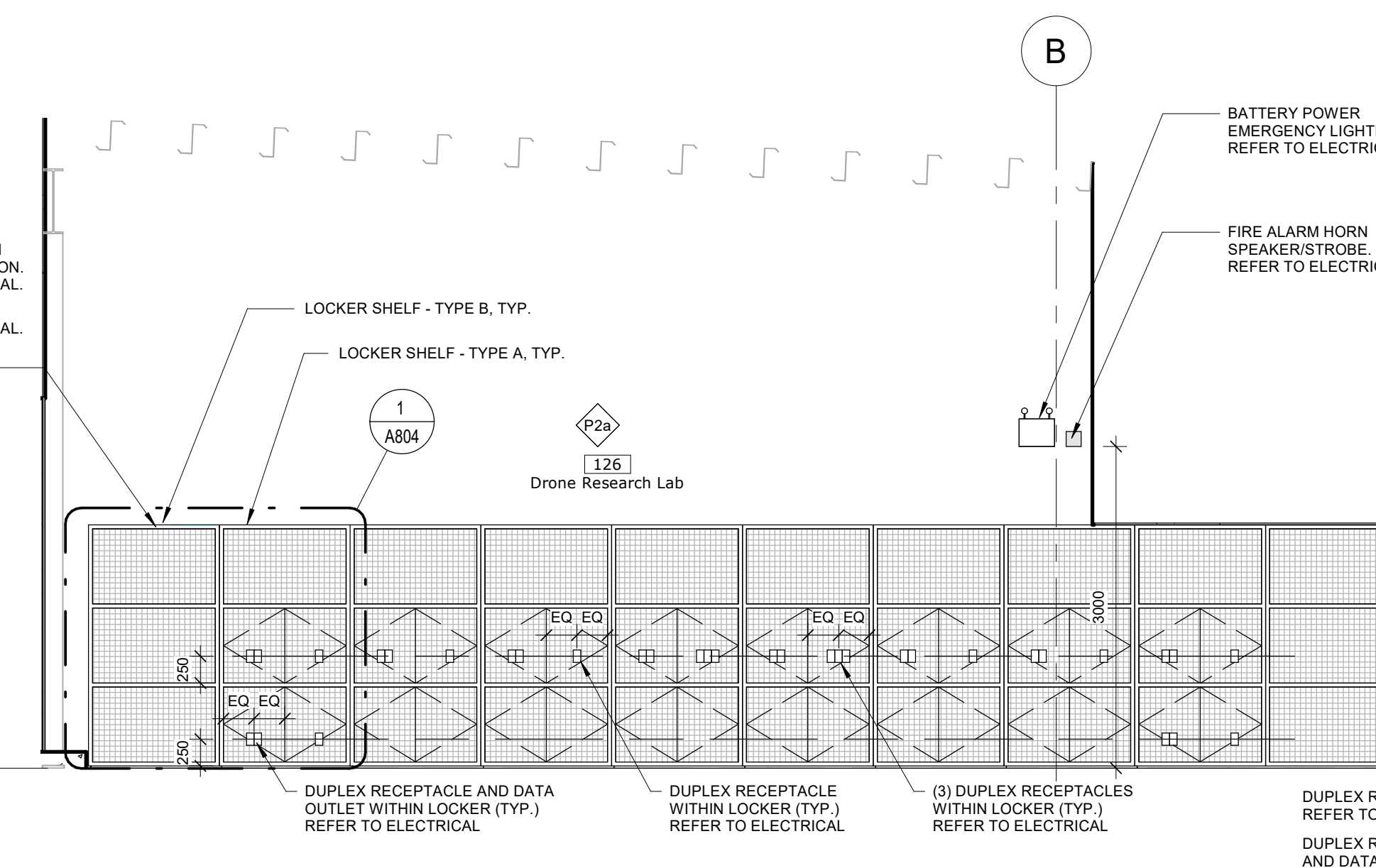
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A709 Scale: 1 : 50



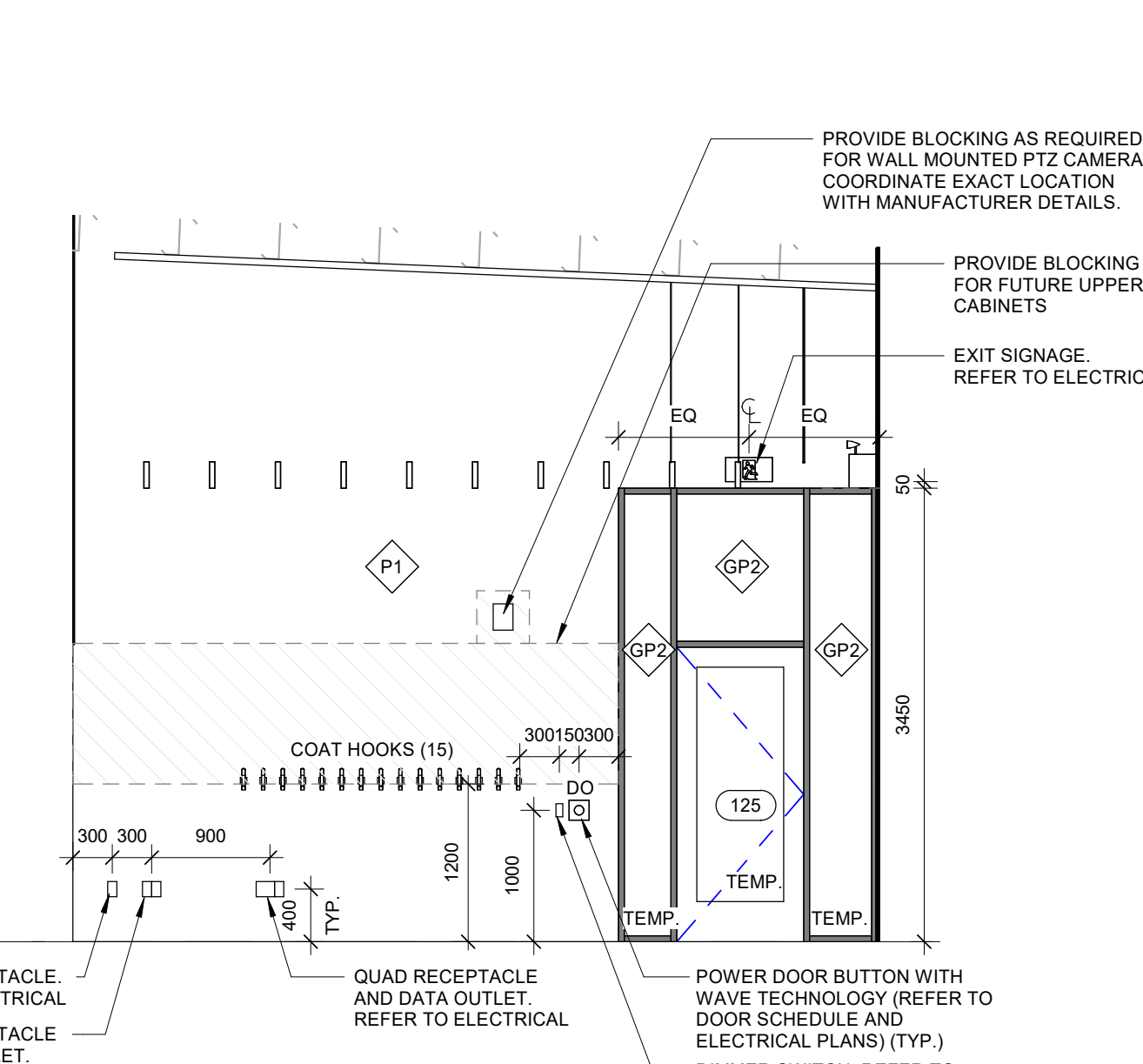
3 INT ELEV - MULTIPURPOSE SPACE SOUTH
A709 Scale: 1 : 50



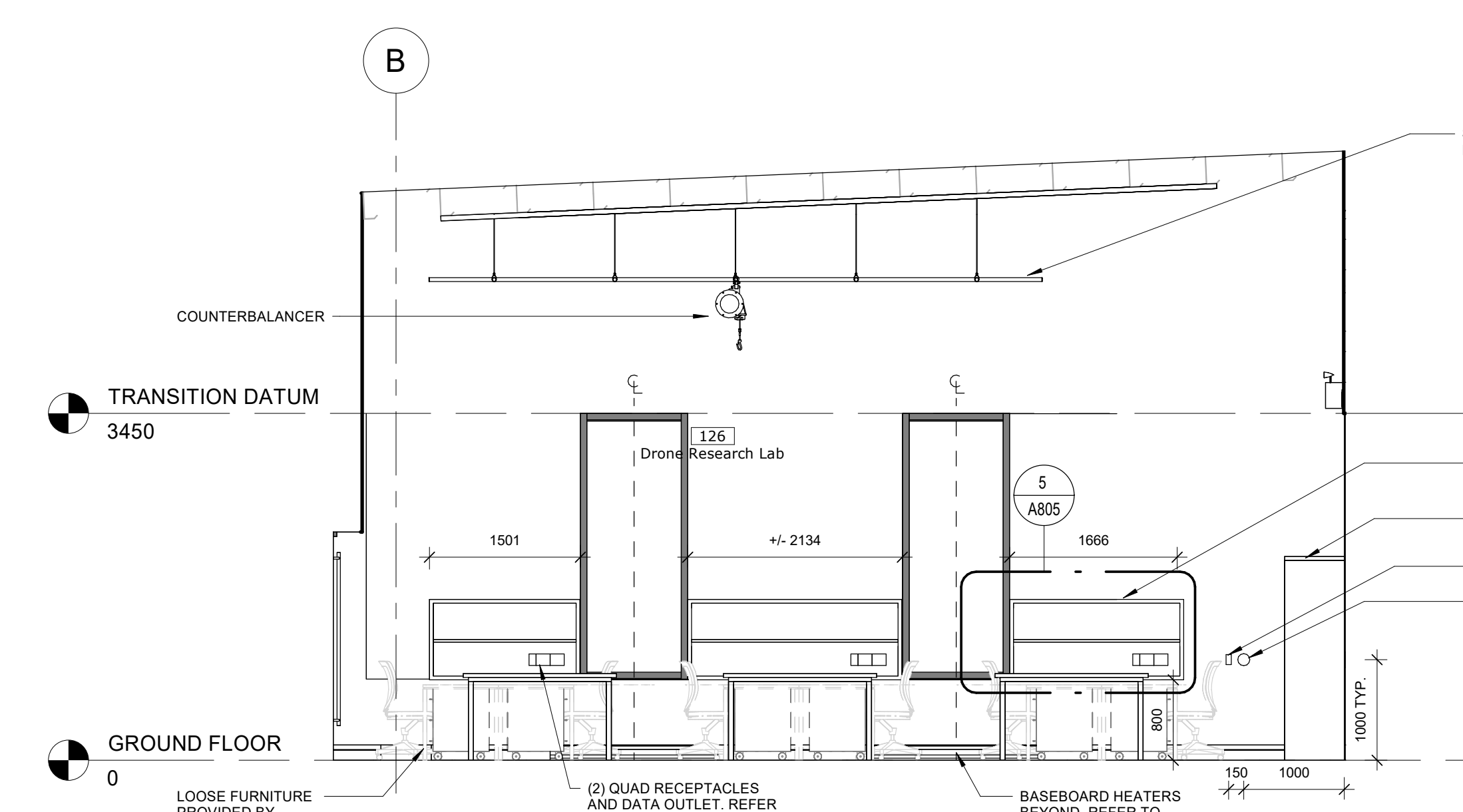
4 INT ELEV - DRONE RESEARCH LAB SOUTH
A709 Scale: 1 : 50



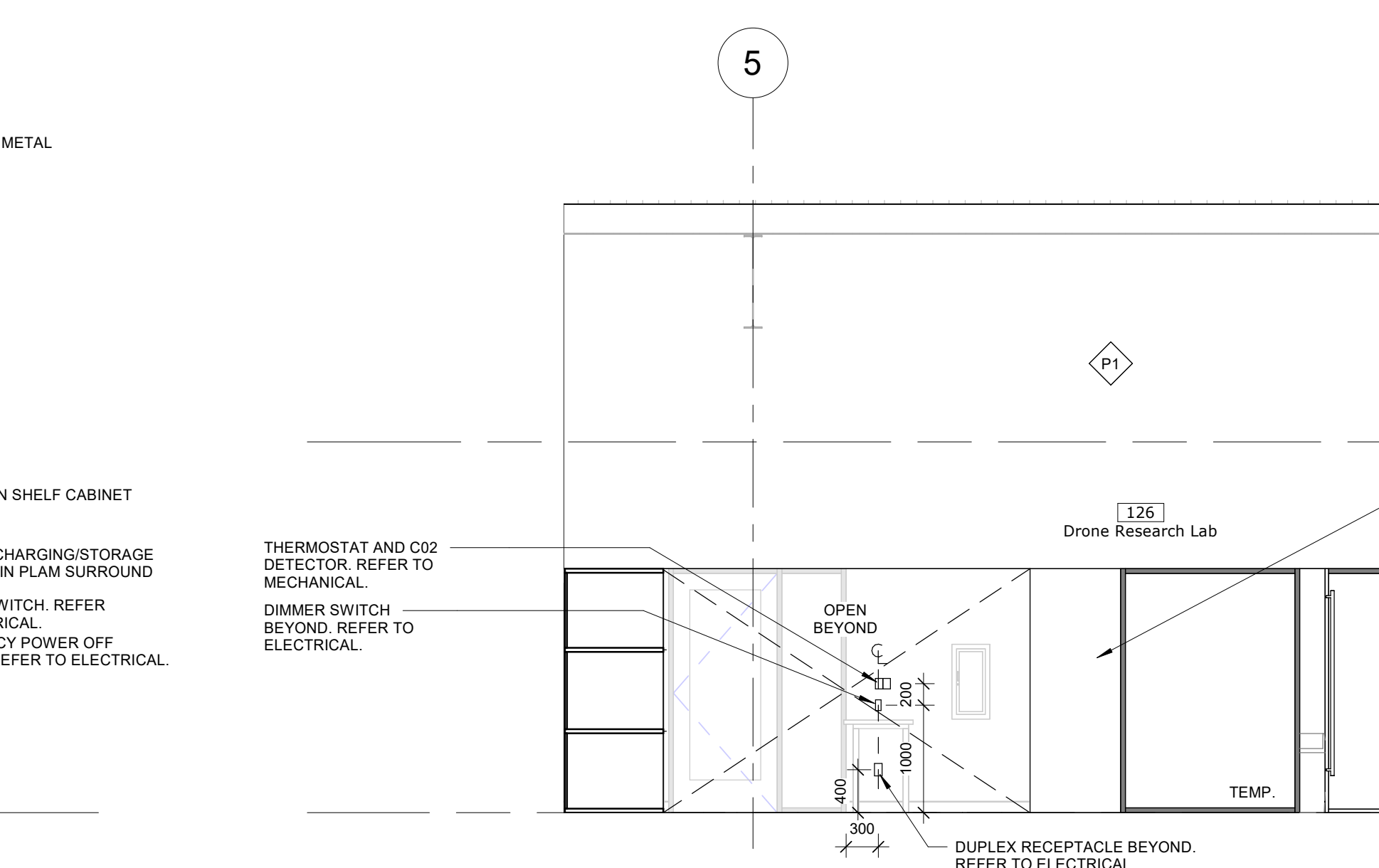
5 INT ELEV - DRONE RESEARCH LAB WEST
A709 Scale: 1 : 50



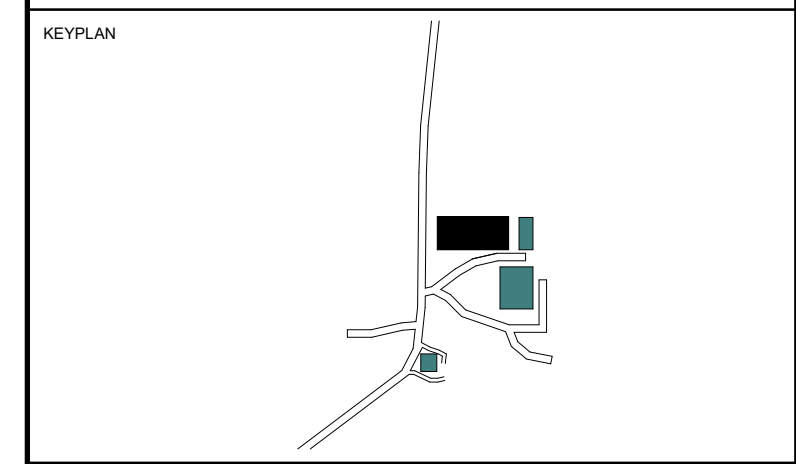
6 INT ELEV - MULTIPURPOSE SPACE WEST
A709 Scale: 1 : 50



7 INT ELEV - DRONE RESEARCH LAB EAST
A709 Scale: 1 : 50



8 INT ELEV - DRONE RESEARCH LAB NORTH
A709 Scale: 1 : 50



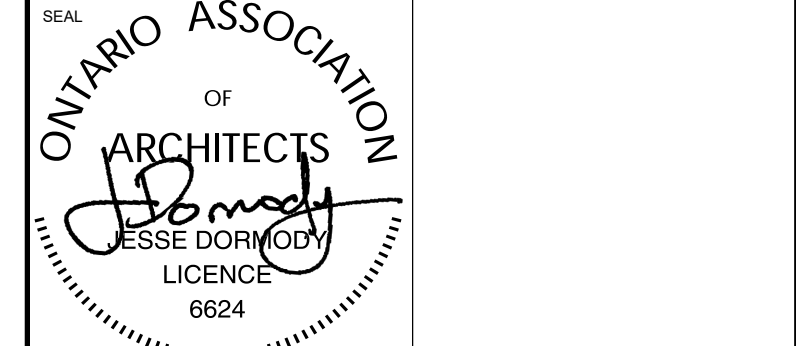
No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

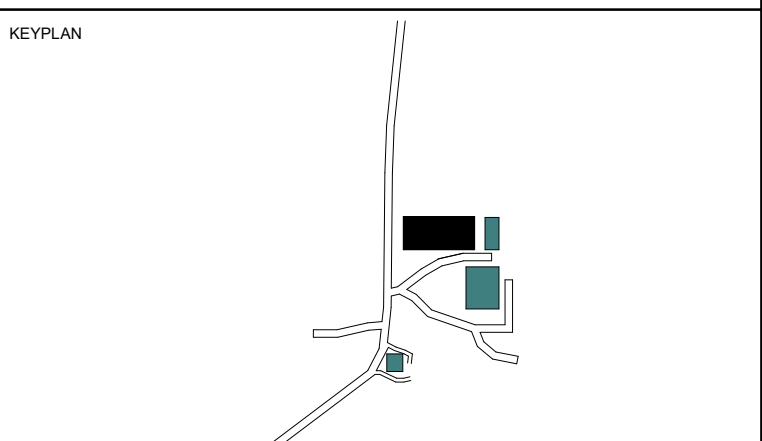
TITLE
INTERIOR ELEVATIONS

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SCALE:	1 : 50	SHEET NO.:
DATE:	02/22/24	A709
PROJECT NO.:	2301	
DRAWN BY:	Author	
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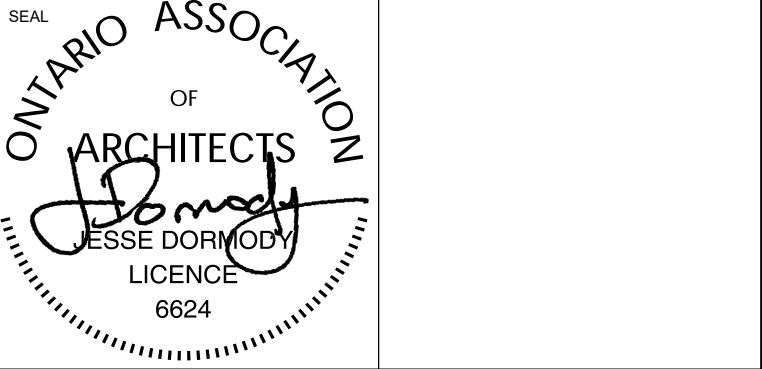
No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-28
2	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

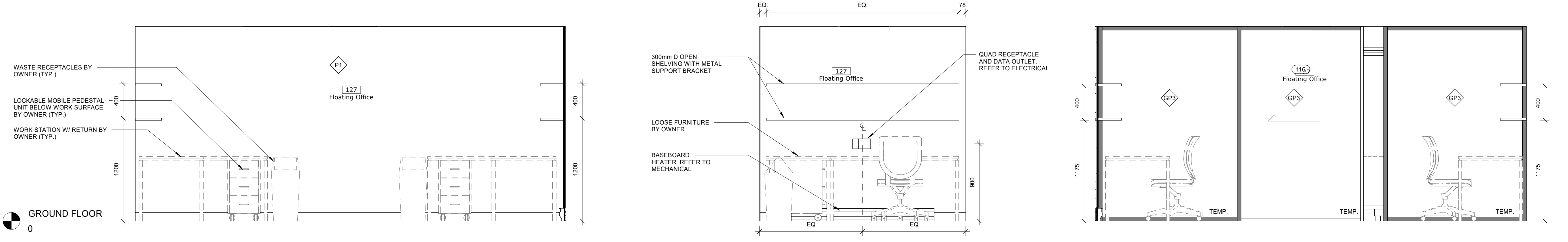
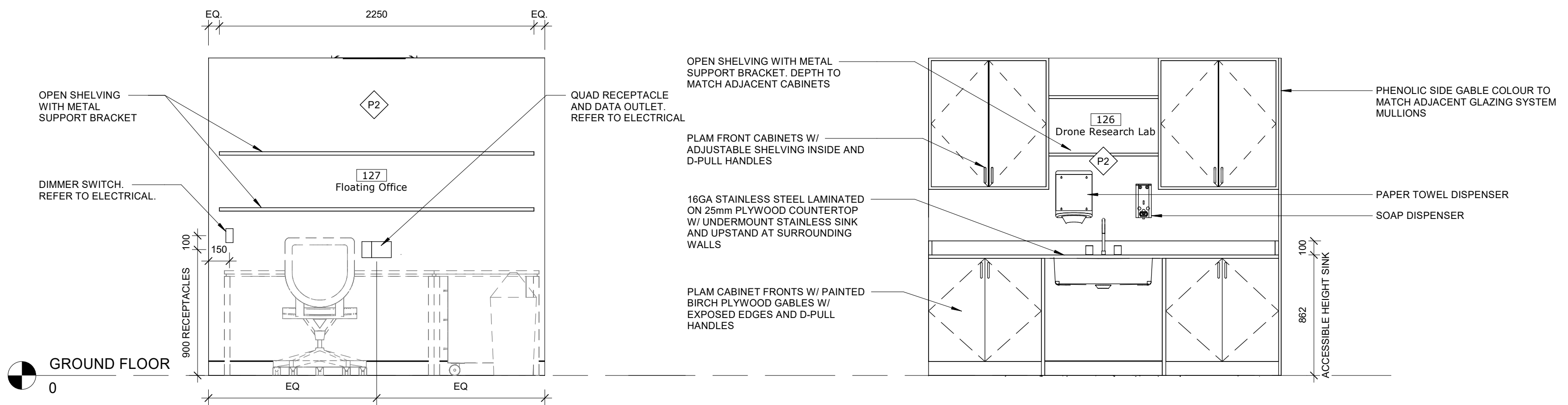
TITLE
INTERIOR ELEVATIONS

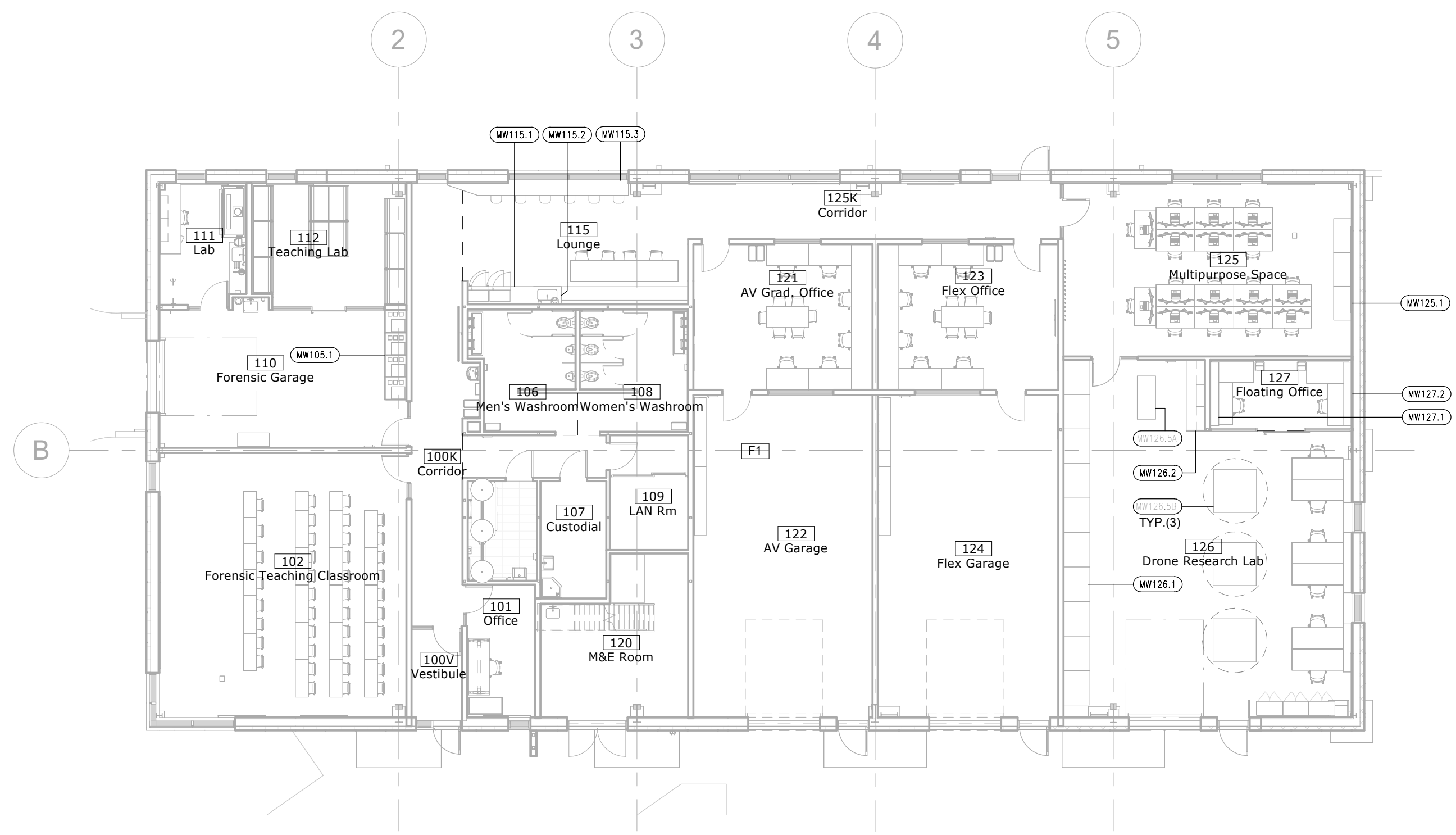
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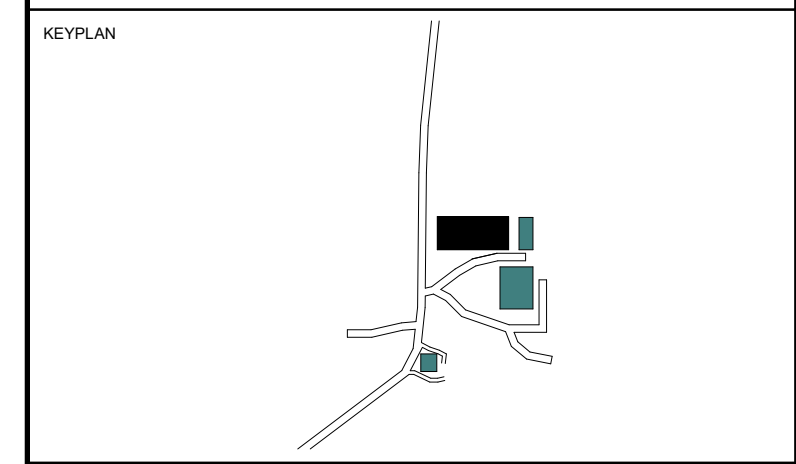
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DATE: 02/13/24	
PROJECT NO: 2301	
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1 MILLWORK KEY PLAN
A801 Scale: 1 : 150



No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

CLIENT
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PROJECT
Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

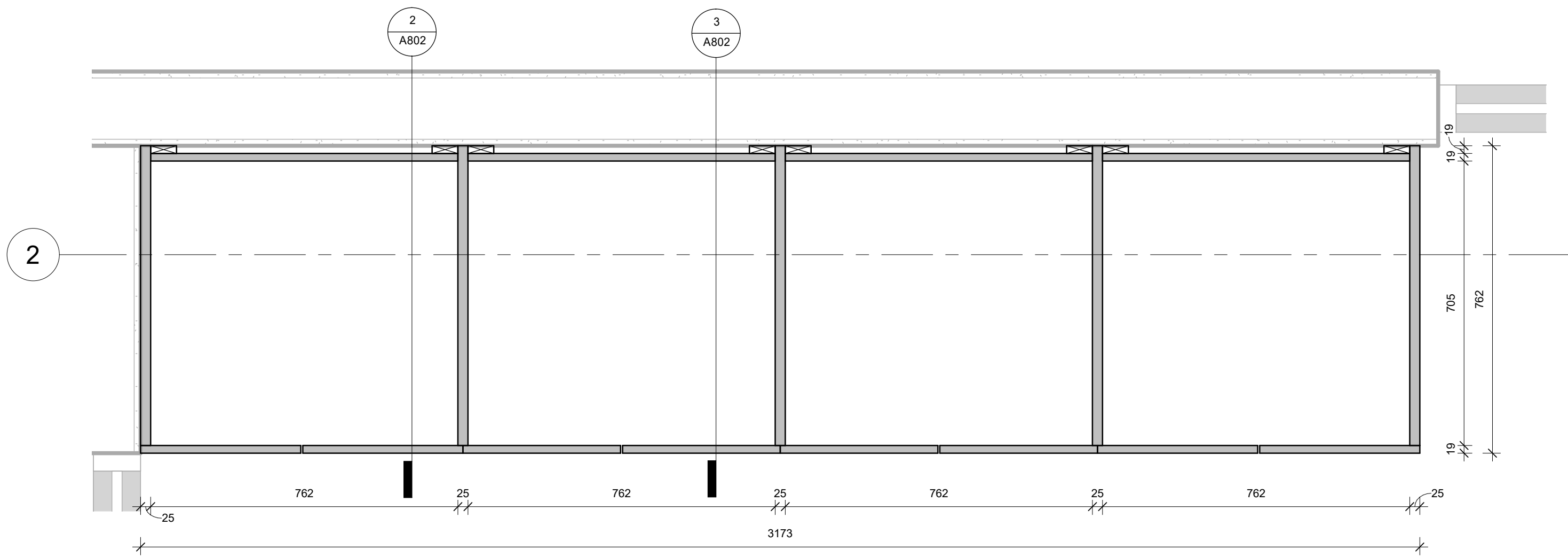
TITLE
MILLWORK SCHEDULE KEY PLAN

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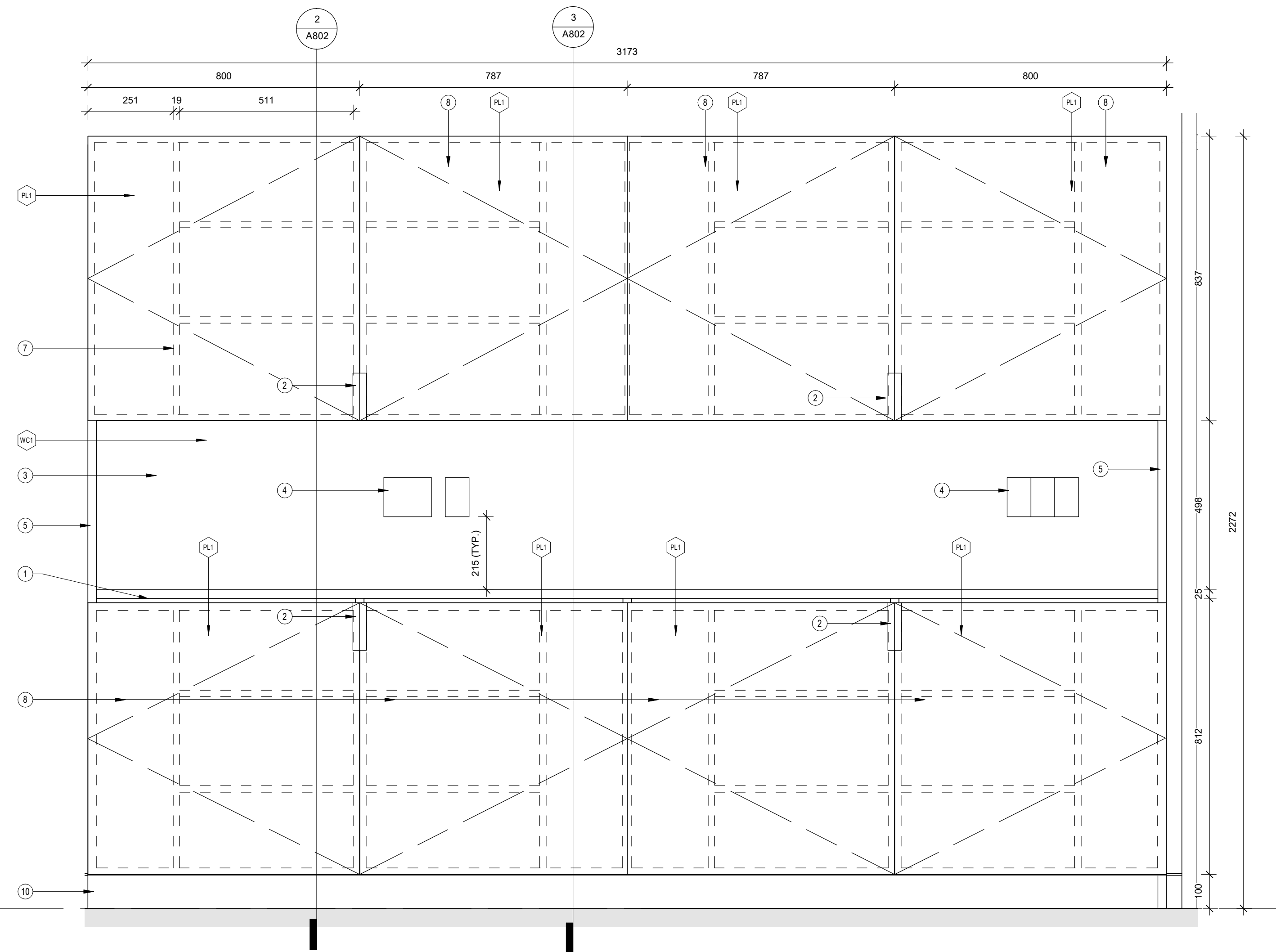
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SCALE: 1 : 150	SHEET NO: A801
DATE: 09/26/24	
PROJECT NO: 2301	
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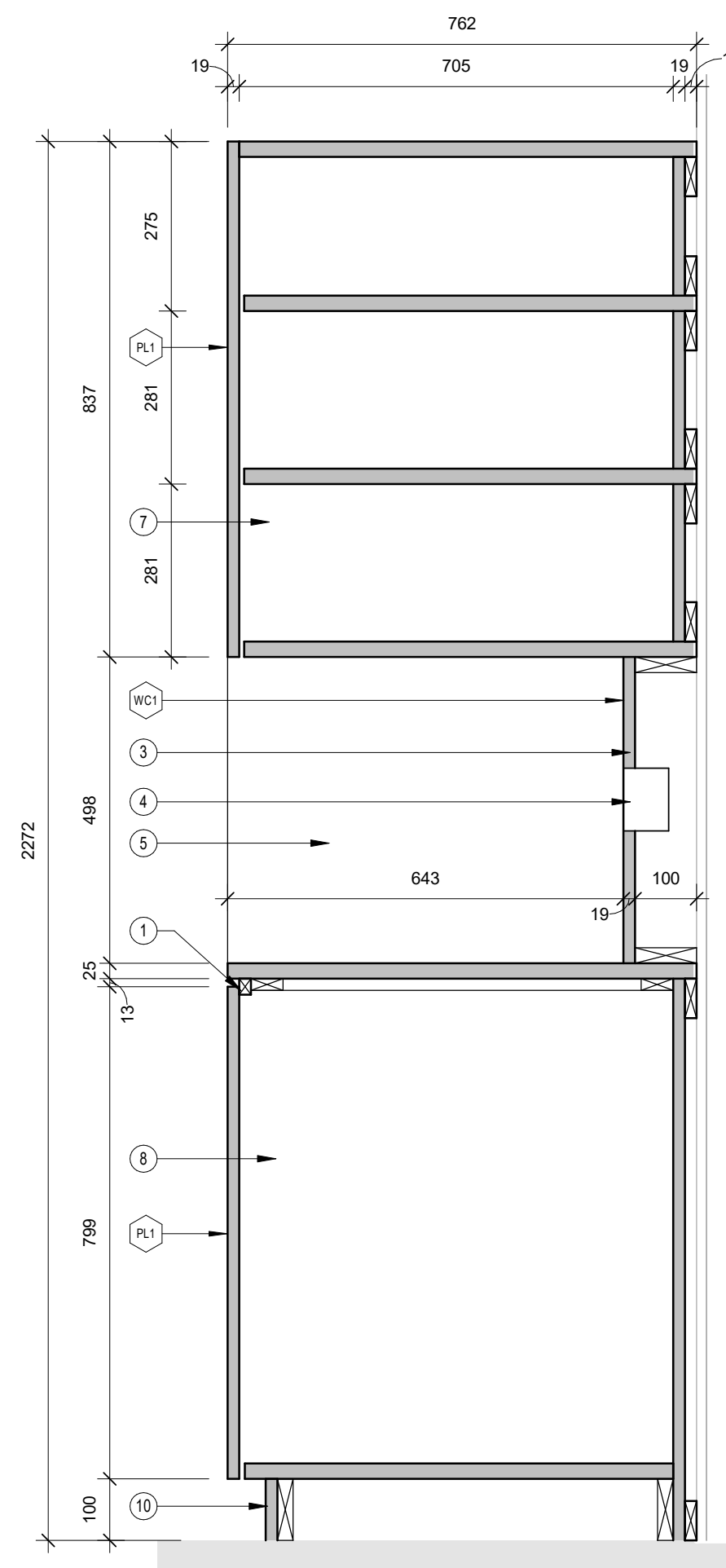
4 MW105.1 - MILLWORK PLAN

A802 Scale: 1 : 10



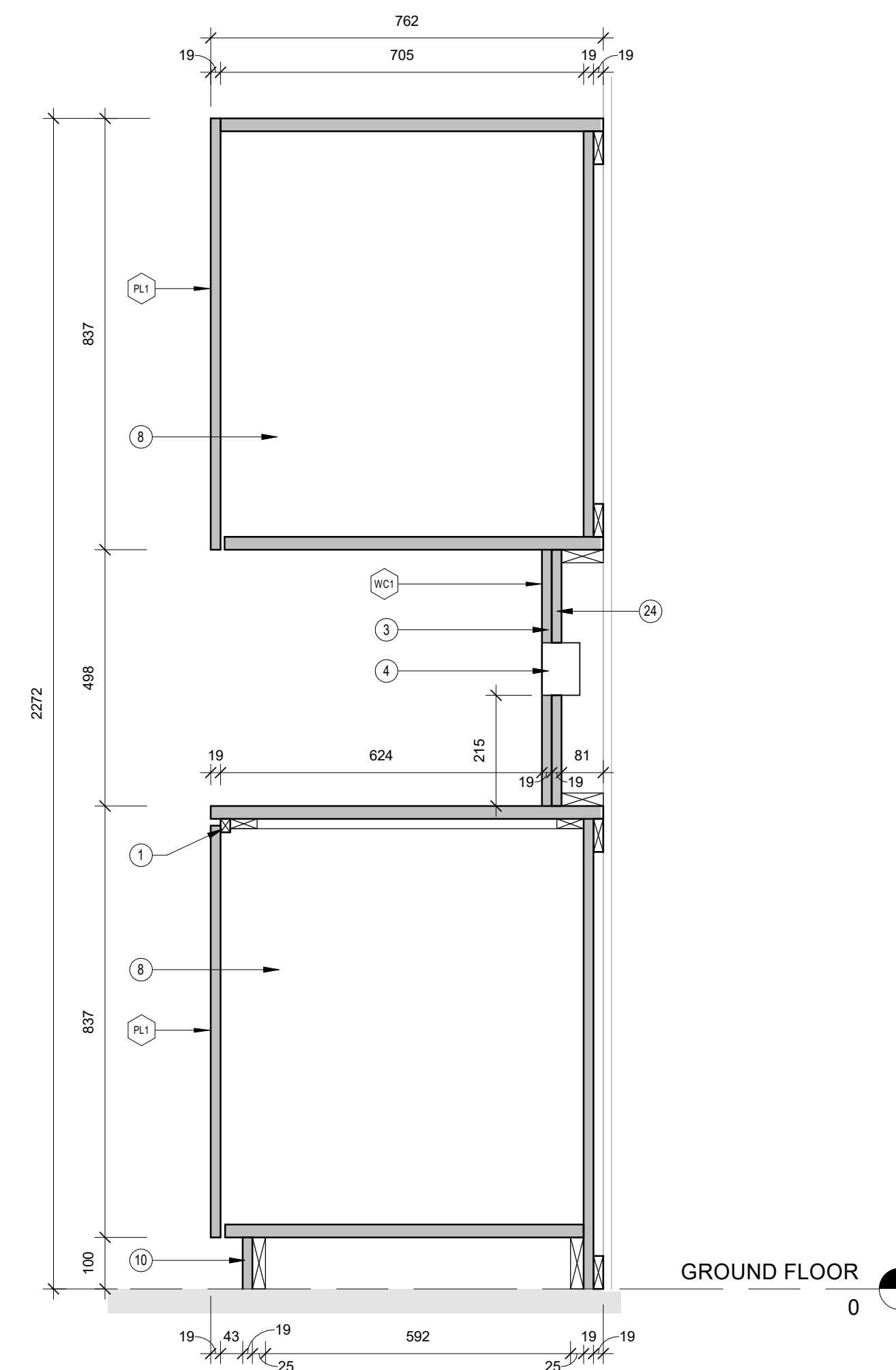
1 MW105.1 - MILLWORK ELEVATION

A802 Scale: 1 : 10



2 MW105.1 - MILLWORK SECTION

A802 Scale: 1 : 10



3 MW105.1 - MILLWORK SECTION

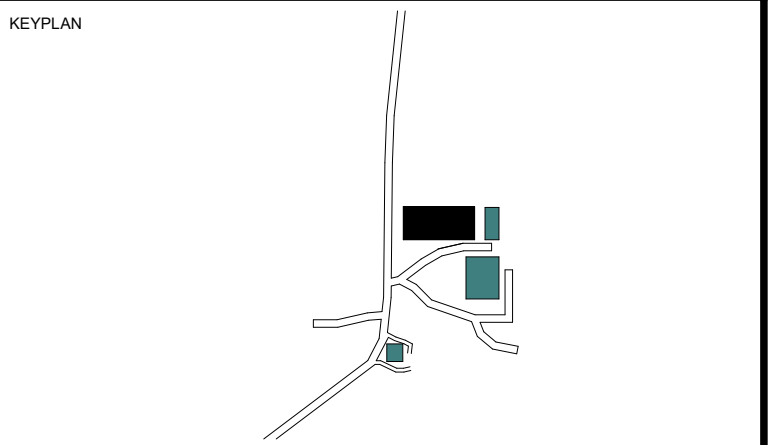
A802 Scale: 1 : 10

MILLWORK DRAWING NOTES:

- 1 13mm REVEAL BETWEEN COUNTER AND LOWER CABINETS.
- 2 EDGE PULL.
- 3 OPEN SHELF WITH 6mm PEG BOARD BACK.
- 4 RECESSED POWER/ DATA RECEPTACLE MOUNTED TO MILLWORK. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- 5 25mm LAMINATE END GABLE.
- 6 PLAM LOCKABLE CAMERA STORAGE CABINETS. 762W x 788H CLEAR INTERIOR DIMENSION. 3 HINGES PER DOOR (TYP.)
- 7 GABLE AND FIXED SHELVES.
- 8 INNER CABINET 25mm HIGH DENSITY PARTICLE BOARD, MELAMINE FINISH. TYPICAL OF ALL CABINETS.
- 9 OPEN CABINET - NO SHELVING.
- 10 19mm PLYWOOD BASE FOR EACH UNIT C/W PLASTIC LAMINATE FINISH.
- 11 UNDERMOUNTED SINK & FAUCET. REFER TO MECHANICAL DWGS.
- 12 RECESSED SHELVING PILASTERS & ADJUSTABLE SHELVES.
- 13 CABINET DOOR D-PULL HANDLE.
- 14 FIXED OPEN SHELVING WITH METAL SUPPORT BRACKET.
- 15 STAINLESS STEEL LAMINATED ON 25mm PLYWOOD COUNTERTOP AND UPSTAND AT SURROUNDING WALLS.
- 16 PHENOLIC SIDE GABLE COLOUR TO MATCH ADJACENT GLAZING SYSTEM MULLIONS.
- 17 PAINTED PLYWOOD GABLES W/ EXPOSED EDGES.
- 18 FACE OF FRAME TO HAVE FINISH TO MATCH DOOR FRONTS.
- 19 CUT OUT IN GABLE FOR CABCOOL FAN.
- 20 CUT OUT IN GABLE BETWEEN LEFT AND RIGHT BAYS.
- 21 CUT OUT IN BOTTOM OF CABINET.
- 22 CUT OUT IN BACK OF CABINET.
- 23 LINE OF SINK BEYOND.
- 24 PLYWOOD BACK SUPPORT FOR TV (REFER TO AV AND ELECTRICAL PLANS FOR LOCATION).

MILLWORK FINISHES:

- PL1 PLASTIC LAMINATE FINISH
- SS1 SOLID SURFACE FINISH
- ST1 16GA STAINLESS STEEL
- WC1 PEG BOARD WALL COVERING



No.	ISSUANCE	DATE
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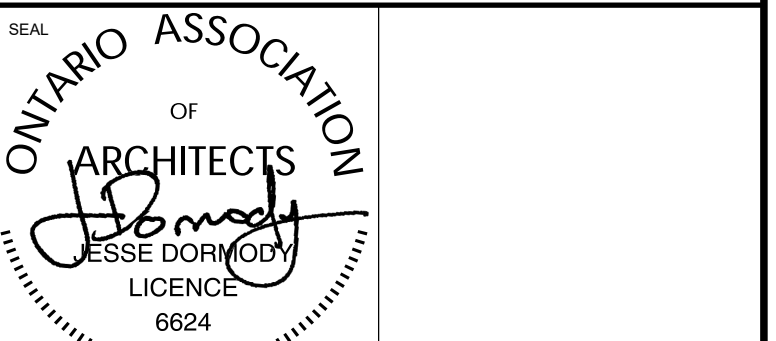
CLIENT
 University of Toronto Mississauga

PROJECT
 Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

TITLE
 MILLWORK DRAWINGS - FORENSIC GARAGE

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SCALE: 1 : 10	SHEET NO: A802
DATE: 10/01/24	
PROJECT NO: 2301	
DRAWN BY: Author	
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MILLWORK DRAWING NOTES:

- 1 WOOD VENEER FINISH AT EXPOSED EDGES, FACES (TYP.)
- 2 VINYL SEAT AND BACK CUSHION.
- 3 25mm LAMINATE END GABLE.
- 4 19mm PLYWOOD BASE C/W PLASTIC LAMINATE FINISH.
- 5 UNDERMOUNTED SINK & FAUCET. REFER TO MECHANICAL DWGS.
- 6 LINE OF SINK BEYOND.
- 7 BUTCHER BLOCK/ LIVE EDGE COUNTER. FASTEN FROM BELOW WITH METAL BRACKET.
- 8 WALL MOUNTED BRACKET MECHANICALLY FASTENED TO WALL WITH FLUSH FACE FASTENERS. PROVIDE SUPPORT BLOCKING AS REQUIRED.
- 9 FRONT PLASTIC LAMINATE FASCIA BOARD.
- 10 SOLID SURFACE COUNTER TOP.
- 11 POWER RECEPTACLE. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- 12 PROVIDE SUPPORT BLOCKING WITHIN WALL FOR BRACKET AS REQUIRED.
- 13 PROVIDE BACKER ROD SEALANT BETWEEN GLAZING AND BUTCHER BLOCK COUNTER.

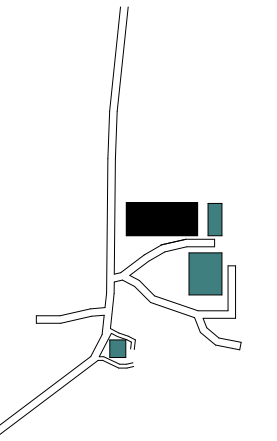
MILLWORK FINISHES:

- PL1 PLASTIC LAMINATE FINISH
- SS1 SOLID SURFACE FINISH
- SS1 16GA STAINLESS STEEL
- WCI PEG BOARD WALL COVERING

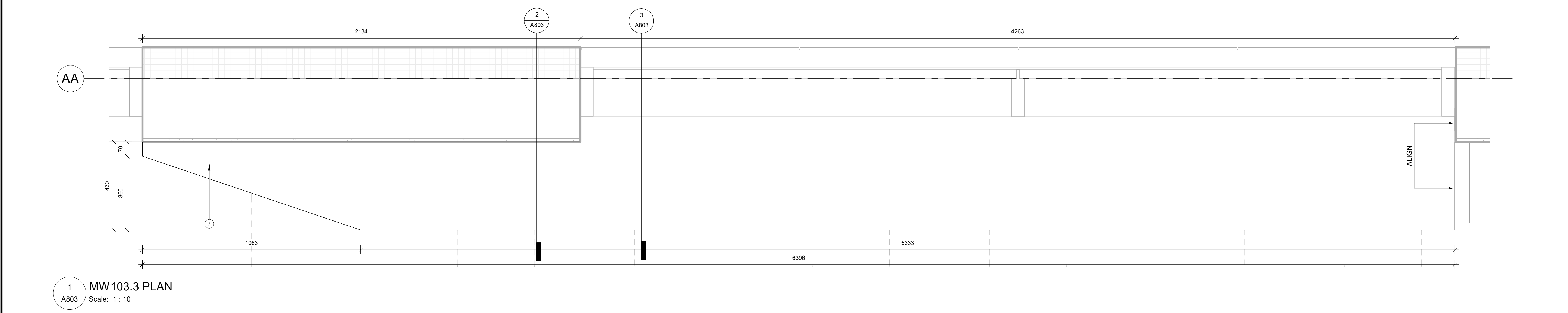
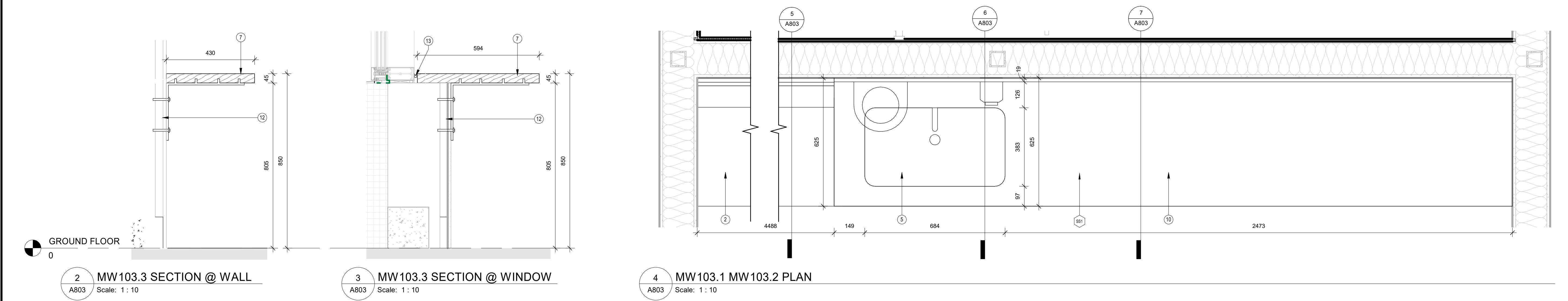
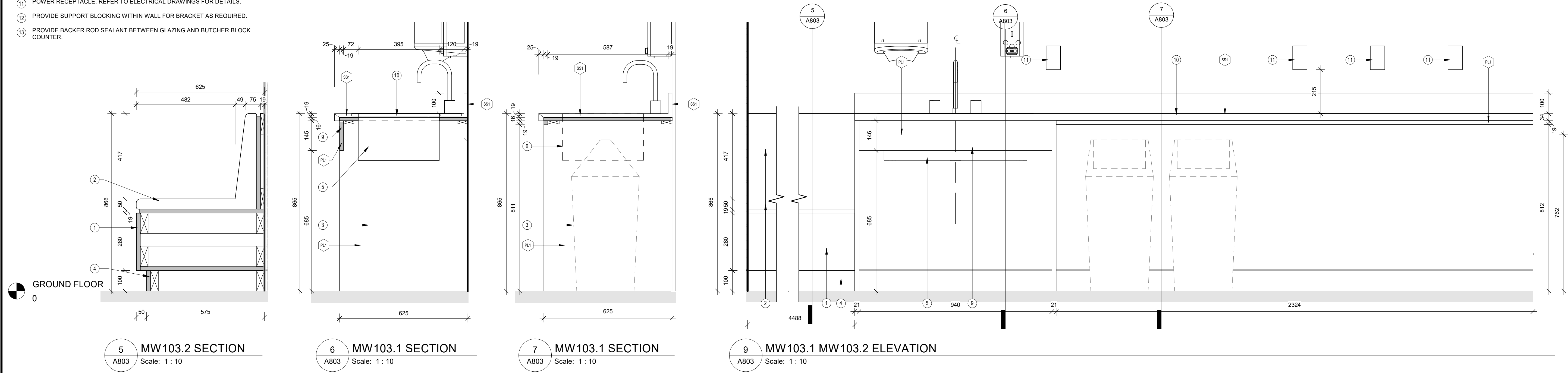
CLIENT LOGO



KEYPLAN



No.	ISSUANCE	DATE
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CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
MILLWORK DRAWINGS - LOUNGE

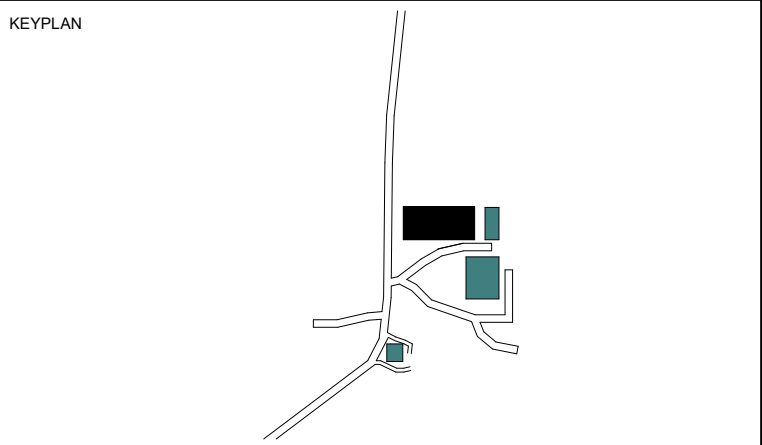
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DATE: 10/01/24	
PROJECT NO: 2301	
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No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

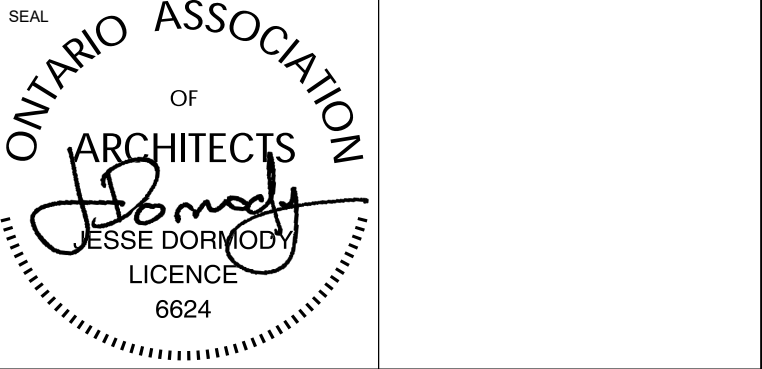
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
MILLWORK DRAWINGS - CROBE

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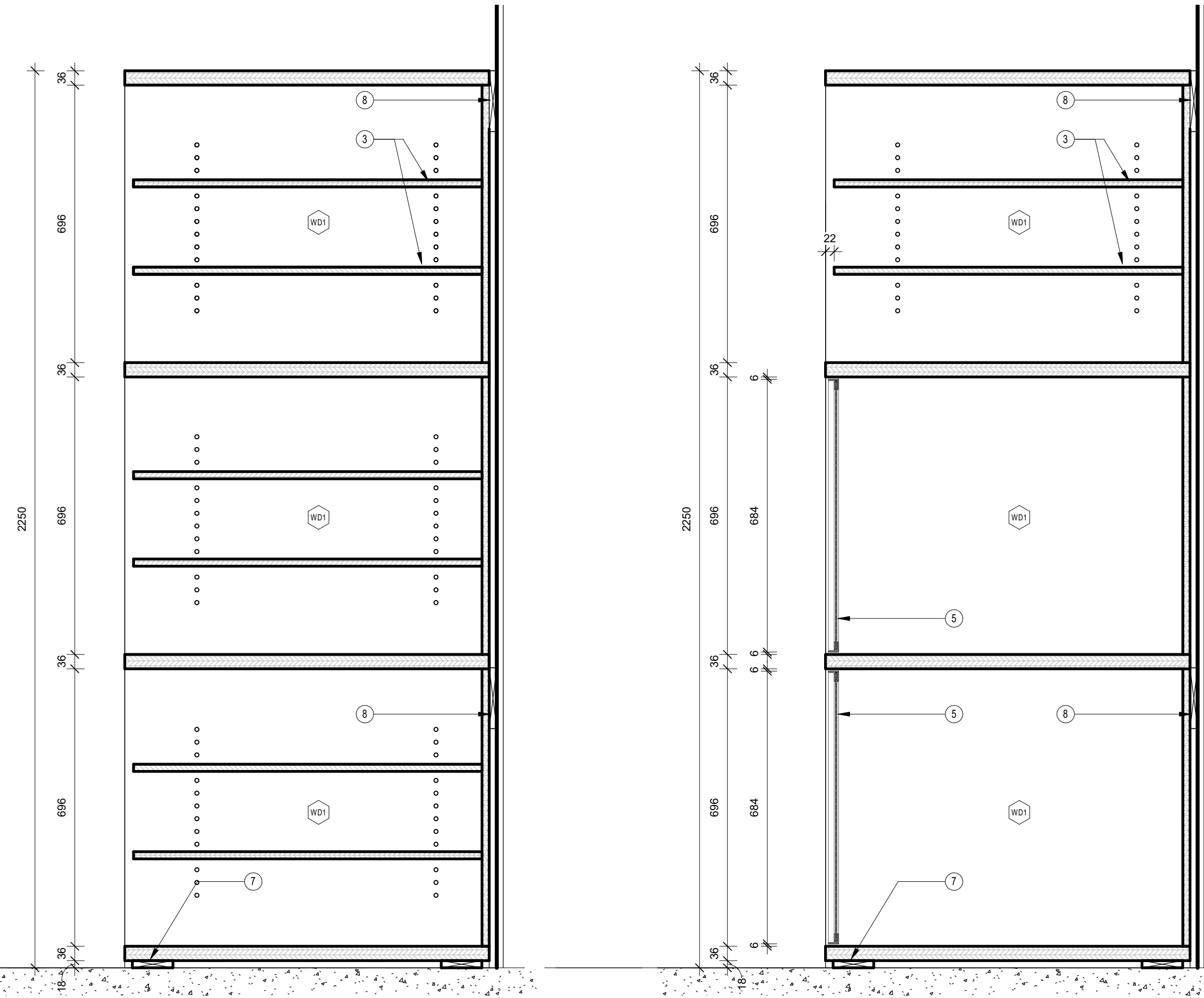
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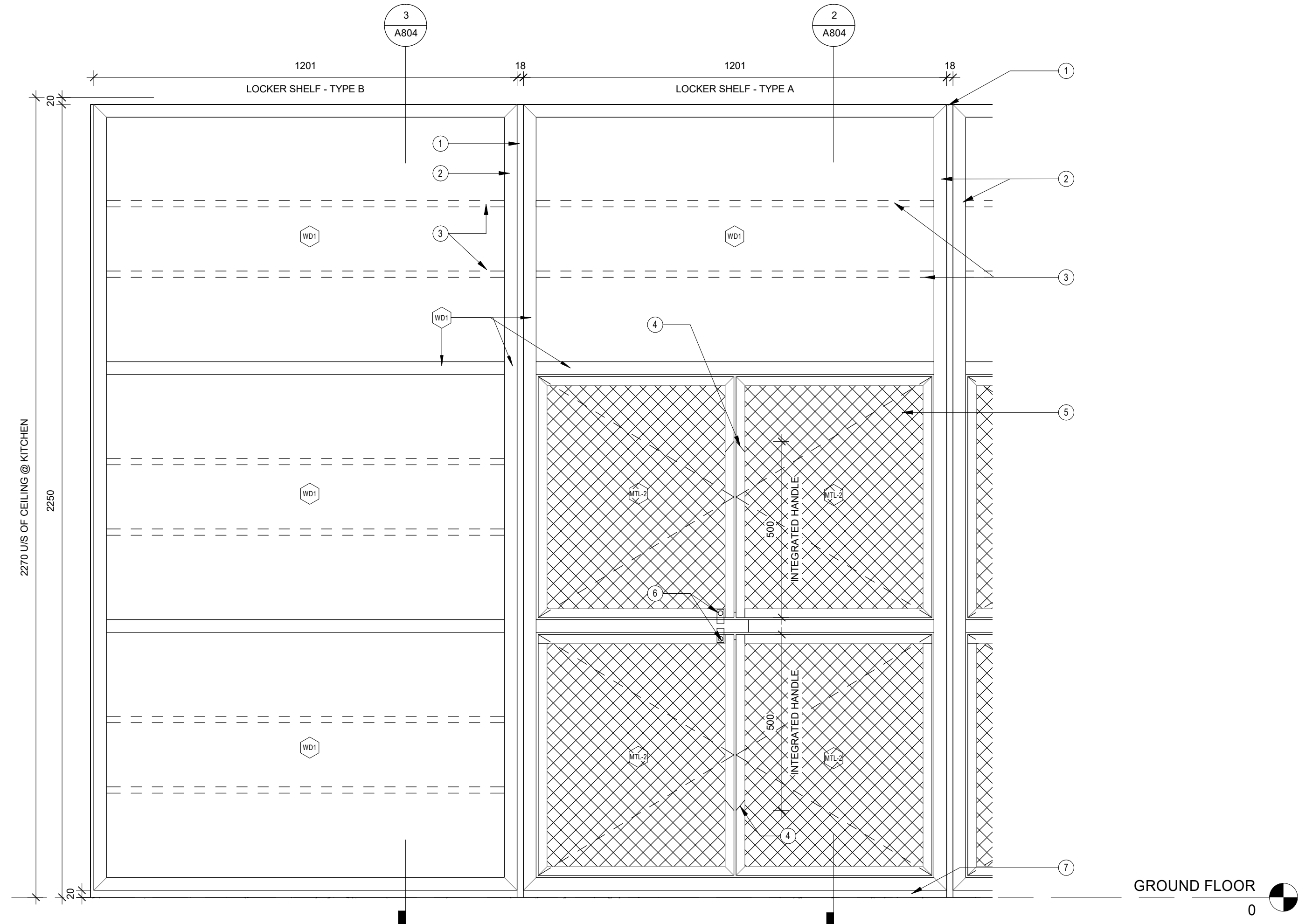
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SCALE: As indicated	SHEET NO:
DATE: 10/01/24	A804
PROJECT NO: 2301	
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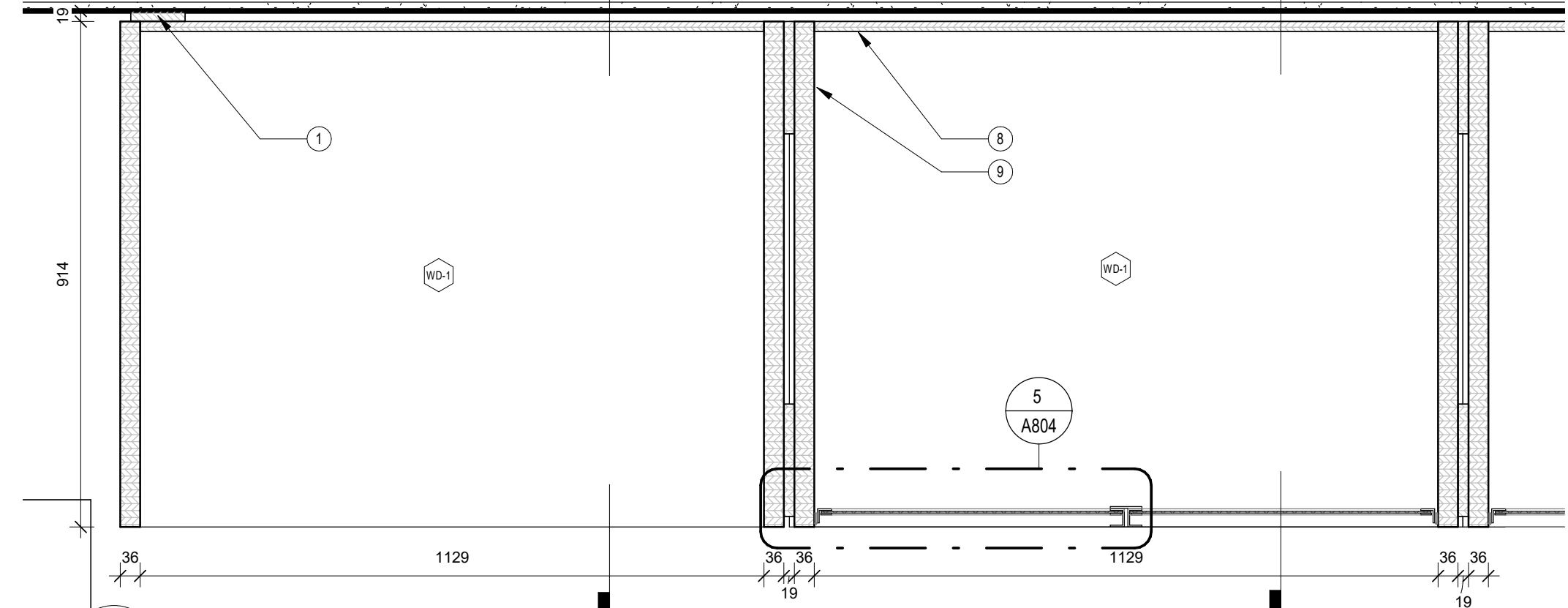


3 MW120.1 - SECTION OF TYPE B
A804 Scale: 1 : 10

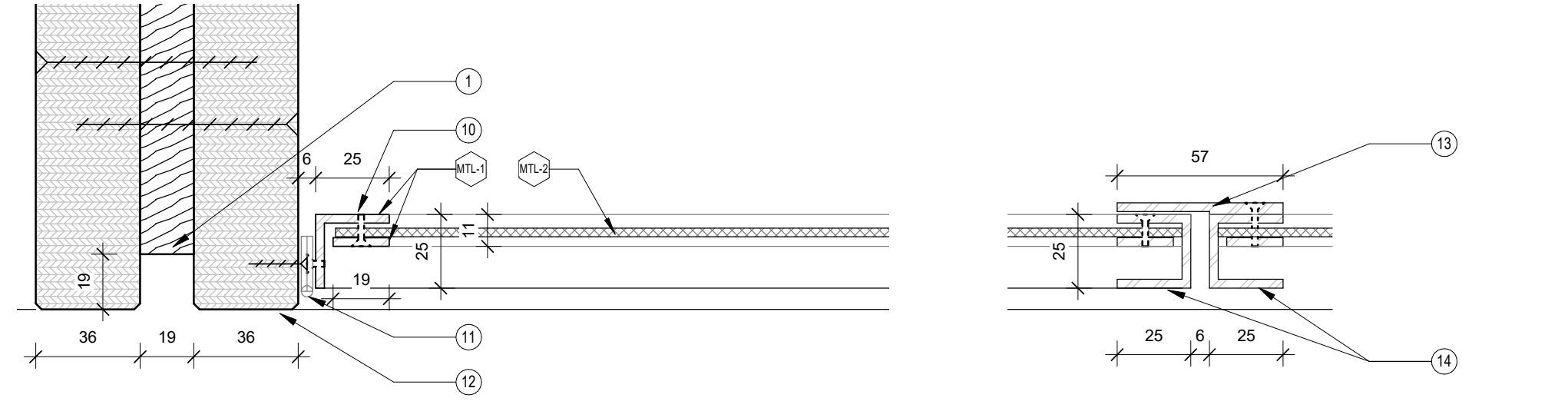
2 MW120.1 - SECTION OF TYPE A
A804 Scale: 1 : 10



1 MW 120.1 - ELEVATION
A804 Scale: 1 : 10



4 MW120.1 - PLAN
A804 Scale: 1 : 10



5 MW120.1 - DOOR DETAIL
A804 Scale: 1 : 2

MILLWORK DRAWING NOTES:

- RECESSED POPLAR FILLER PIECE, SET BACK 19MM FROM F/O CABINET
- 36MM CLEARCOAT BALTIMORE BIRCH PLY CABINET FRAME W/ EXPOSED EDGES, MITER FRAME AT CORNERS
- 2X 18MM CLEARCOAT BALTIMORE BIRCH PLY ADJUSTABLE SHELVES PER OPEN SEGMENT, TYP.
- STAINLESS STEEL CHANNEL PULL, CUT AWAY TO MATCH PROFILE OF CHANNEL
- EXPANDED METAL MESH LOCKER DOOR
- CAM LOCK
- 19MM RECESSED POPLAR BASE PAINTED BLACK, SHIM AS REQUIRED TO LEVEL CABINETS
- SECURE LOCKER CABINETS TO CONT. HORIZONTAL 19MM THK POPLAR STRAPPING ALONG QWB SURFACE
- JOIN BALTIMORE BIRCH LOCKER CABINETS THRU EQUALLY SPACED, VERTICALLY ALIGNED, COUNTERSUNK SS SCREWS, FROM BOTH SIDES, W/ 19MM POPLAR SPACER
- CLAMP EXPANDED METAL MESH BETWEEN STAINLESS STEEL ANGLE 3MM X 25MM X 25MM AND STAINLESS STEEL PLATE 3MM X 19MM W/ COUNTERSUNK MACHINE SCREWS SPACED 150MM
- CONTINUOUS SS PIANO HINGE, 1-1/2" WIDE, RICHELIEU PRODUCT #40072170 OR EQ.
- EXPOSED BALTIMORE BIRCH PLYWOOD EDGE TO BE FREE OF GAPS, W/ EDGES CHAMFERED 2MM
- STAINLESS STEEL 3MM X 55MM ASTRAGAL, SECURED W/ MACHINE SCREW TO RIGHT-SIDE DOOR HANDLE
- STAINLESS STEEL CHANNEL PULL, 3MM X 25MM X 25MM TO CLAMP EXPANDED METAL MESH, CUT AWAY TO MATCH PROFILE OF CHANNEL AT LOCATION INDICATED ON ELEVATIONS

MILLWORK FINISHES:

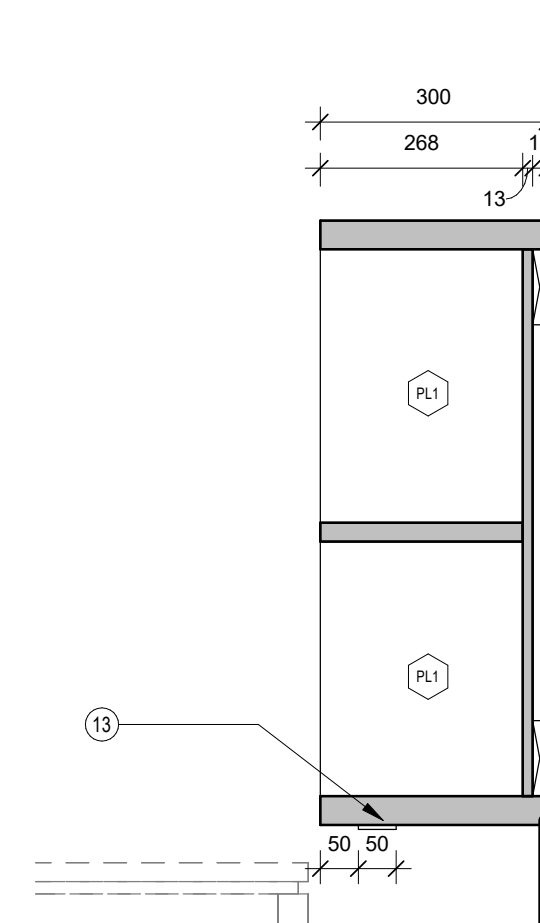
- PL1 PLASTIC LAMINATE FINISH
- SB1 SOLID SURFACE FINISH
- BT1 16GA STAINLESS STEEL
- WB1 PEG BOARD WALL COVERING
- WD1 BALTIMORE BIRCH PLYWOOD - CLEARCOAT
- MTL-1 STAINLESS STEEL PLATE
- MTL-2 EXPANDED METAL MESH (MCNICHOL'S EXPANDED METAL MESH PANEL NO. 460N121648)

MILLWORK DRAWING NOTES:

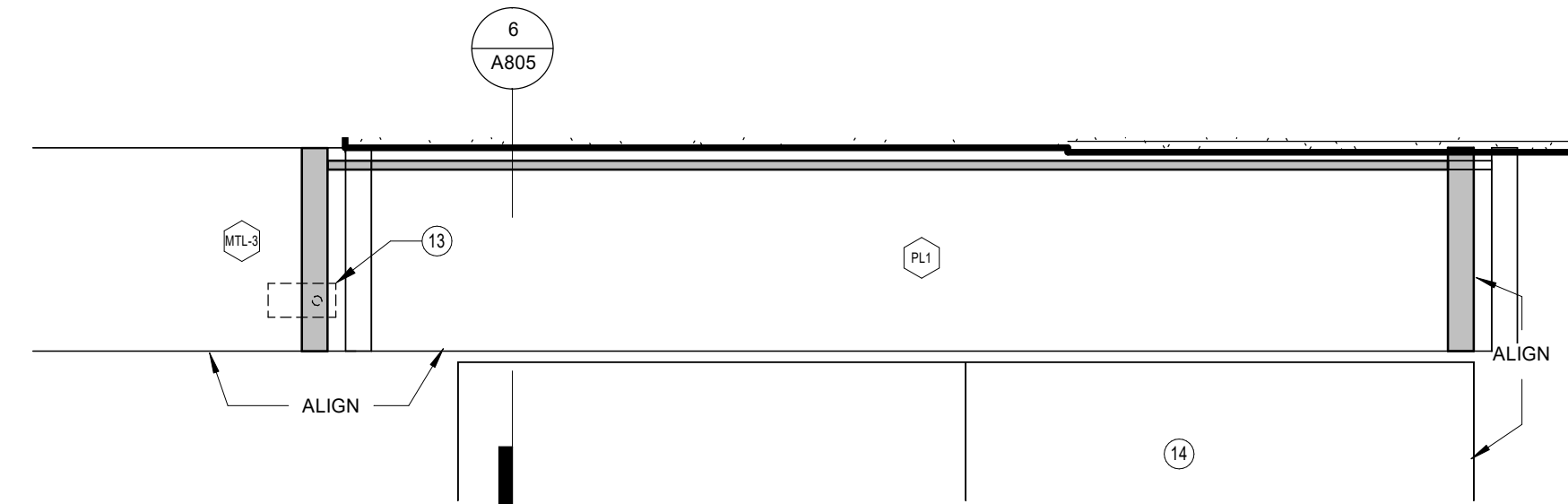
- 1 13mm REVEAL BETWEEN COUNTER AND LOWER CABINETS.
- 2 RECESSED SHELIVING PILASTERS & ADJUSTABLE SHELVES.
- 3 19mm PLYWOOD BASE FOR EACH UNIT C/W PLASTIC LAMINATE FINISH.
- 4 19mm PLAM SHELF
- 5 38mm PLAM GABLE
- 6 CELLBLOCK BATTERY CHARGING CABINET CBSC3672 [1969H x 919W x 561D]
- 7 CONT. POPLAR STRAPPING TO SUPPORT PLAM GABLE, PAINTED TO MATCH WALL COLOUR
- 8 DEPTH OF MW120.4 TO BE SET BY DEPTH OF CELLBLOCK CABINET, F/O MILLWORK AND GABLE TO BE 25MM PROUD OF CABINET
- 9 EDGE PULL - CBH 261 - 100MM - SATIN NICKEL
- 10 INNER CABINET 25mm HIGH DENSITY PARTICLE BOARD, MELAMINE FINISH. TYPICAL OF ALL CABINETS.
- 11 ALIGN FACE OF PLAM GABLE W/ INSIDE F/O JAMB EXTENSION
- 12 ALIGN EDGE OF PLAM CABINET W/ DRYWALL EDGE
- 13 EXTEND 6MM ALUMINUM POWDER COATED PLATE TO F/O CABINET, SECURE TO CABINET W/ CONCEALED ALUMINUM TAB BELOW
- 14 CLASSROOM FURNITURE (NIC) AS PER LAYOUT IN PLAN
- 15 TYPICAL DETAILS FOR PLAM OPEN CABINET IN CROBE LAB, REFER TO PLAN/INTERIOR ELEVATIONS FOR EXTENTS OF REMAINING 2 CABINETS
- 16 PAINTED HSS FRAME
- 17 S.S. WRAPPED PLYWOOD TOP
- 18 LEVELING FLOOR GLIDES FOR UNEVEN SURFACES OR FLOOR ANCHORING LEVELING FOOT PLATES AS REQUIRED. REFER TO PLANS. TYP
- 19 S.S. WRAPPED WOOD TOP

MILLWORK FINISHES:

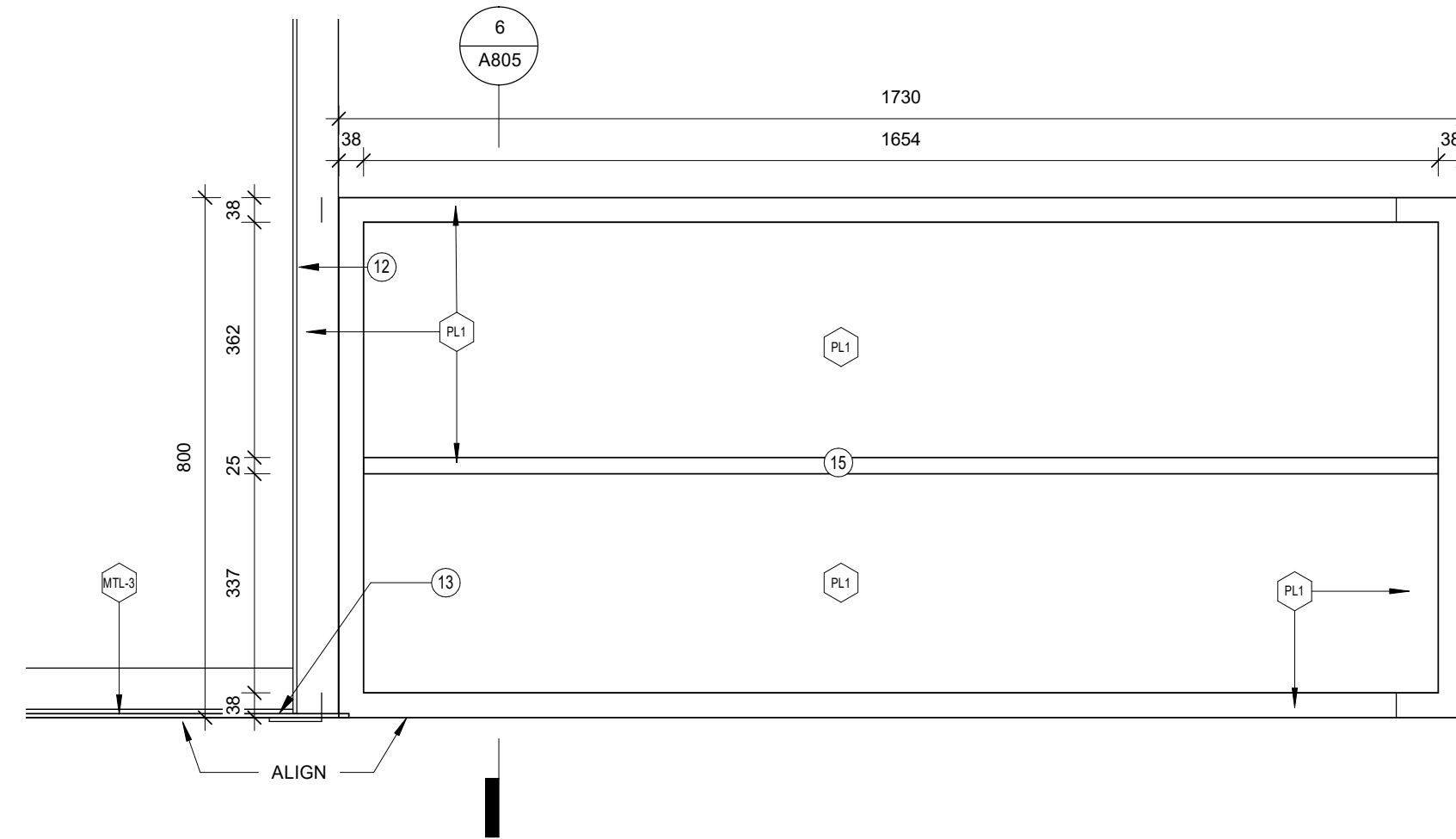
- PL1 PLASTIC LAMINATE FINISH
- BSF SOLID SURFACE FINISH
- ST1 16GA STAINLESS STEEL
- MC1 PEG BOARD WALL COVERING
- WD1 BALTIC BIRCH PLYWOOD - CLEARCOAT
- ML1 STAINLESS STEEL PLATE
- ML2 EXPANDED METAL MESH [MCNICHOLAS EXPANDED METAL MESH PANEL NO. 460N121648]
- ML3 POWDER COATED ALUMINUM PLATE



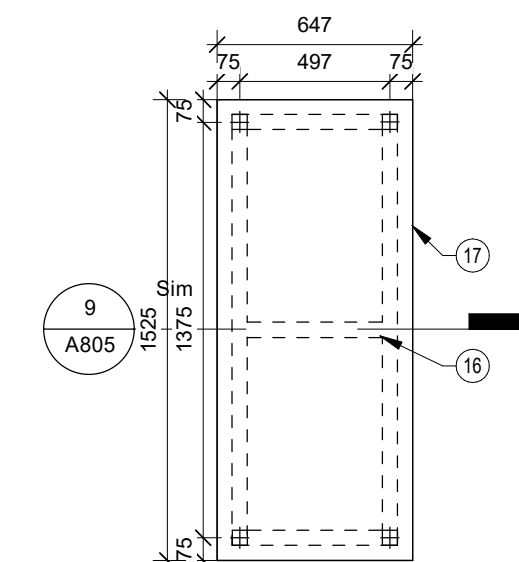
6 MW126.3 SECTION
A805 Scale: 1 : 10



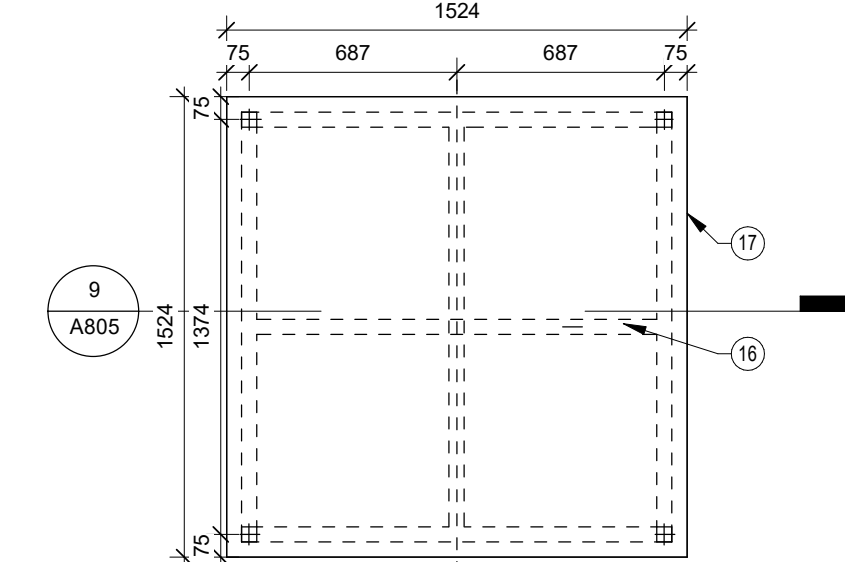
4 MW126.3 PLAN
A805 Scale: 1 : 10



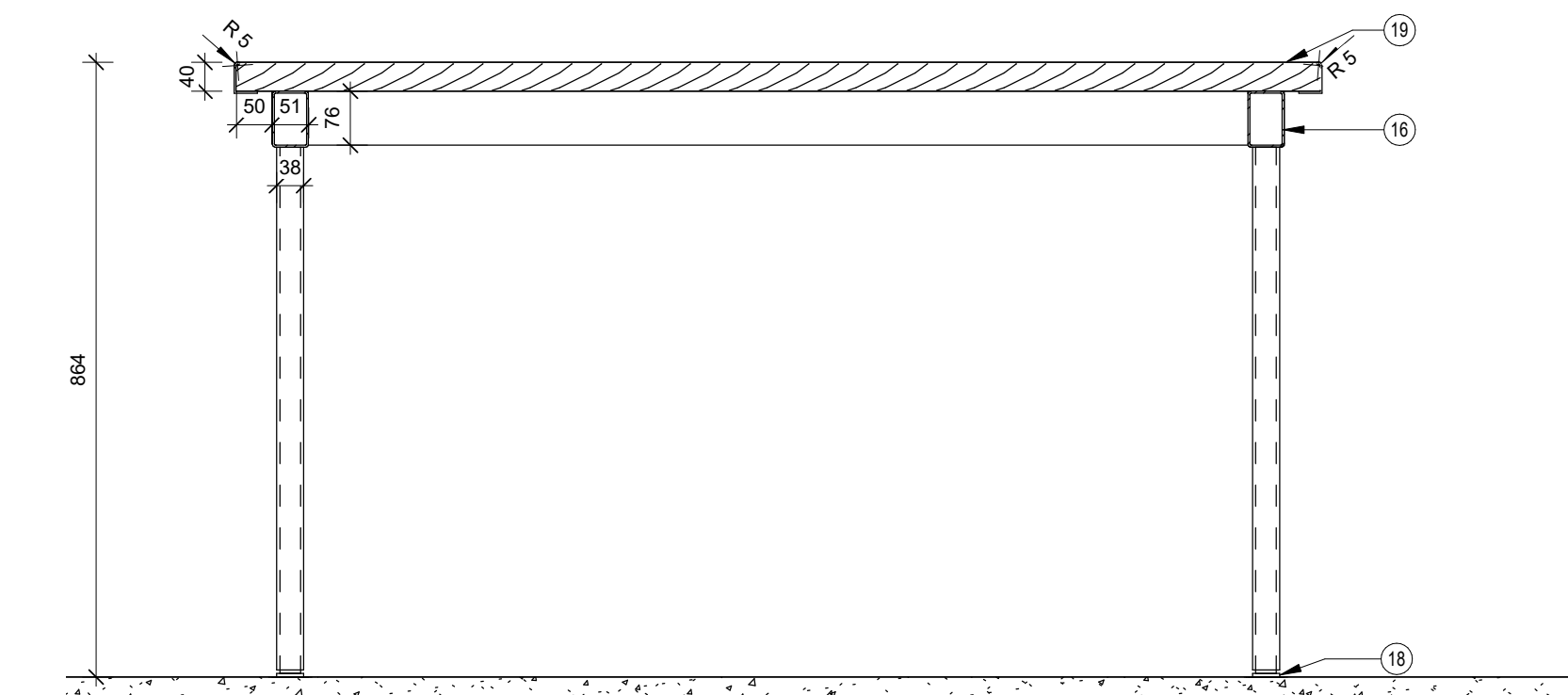
5 MW126.3 ELEVATION
A805 Scale: 1 : 10



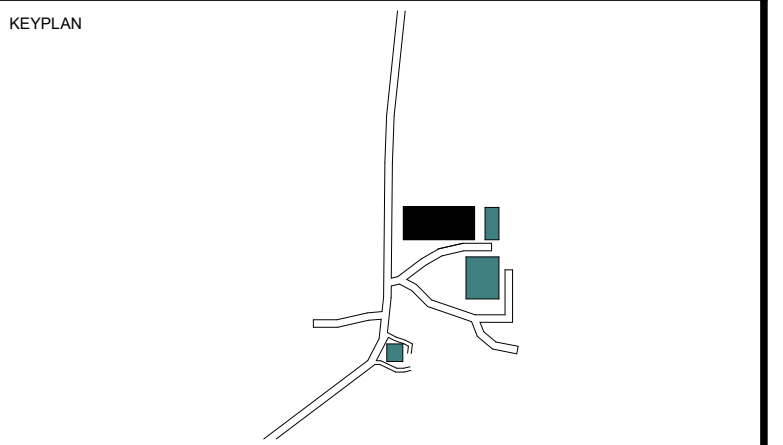
7 MW126.5A PLAN
A805 Scale: 1 : 25



8 MW126.5B PLAN
A805 Scale: 1 : 25



9 MW126.5 SECTION
A805 Scale: 1 : 10



No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
MILLWORK DRAWINGS - CROBE

architects
Baird Sampson Neurt

416.363.8877 bsnarchitects.com



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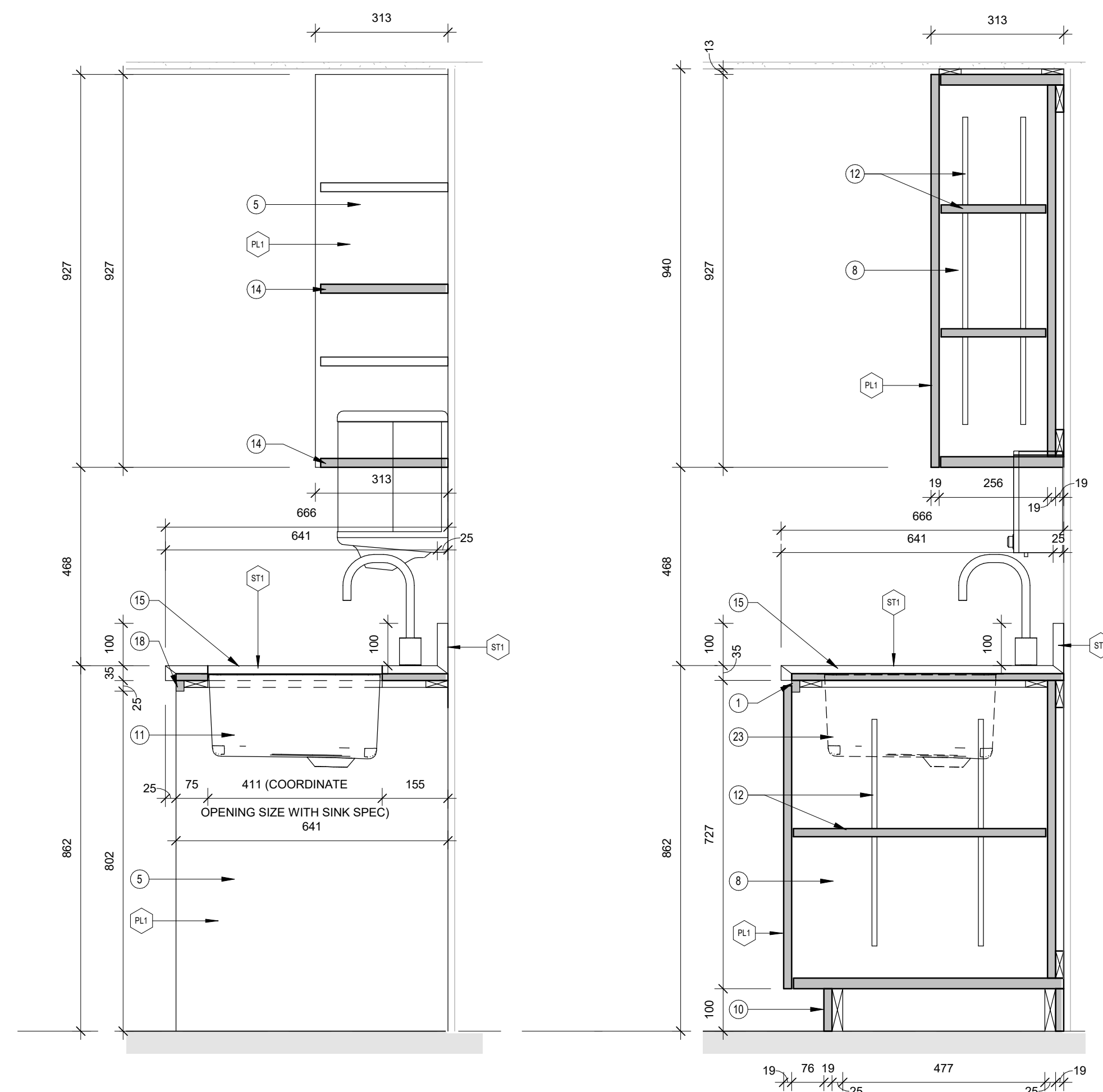
SCALE:	As indicated	SHEET NO:
DATE:	10/02/24	A805
PROJECT NO:	2301	
DRAWN BY:	Author	
CHECKED BY:	Checker	

MILLWORK DRAWING NOTES:

- 1 13mm REVEAL BETWEEN COUNTER AND LOWER CABINETS.
- 2 EDGE PULL.
- 3 OPEN SHELF WITH 6mm PEG BOARD BACK.
- 4 RECESSED POWER/ DATA RECEPTACLE MOUNTED TO MILLWORK. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- 5 25mm LAMINATE END GABLE.
- 6 PLAM LOCKABLE CAMERA STORAGE CABINETS. 762W x 788H CLEAR INTERIOR DIMENSION. 3 HINGES PER DOOR (TYP.)
- 7 GABLE AND FIXED SHELVES.
- 8 INNER CABINET 25mm HIGH DENSITY PARTICLE BOARD, MELAMINE FINISH. TYPICAL OF ALL CABINETS.
- 9 OPEN CABINET - NO SHELVLING.
- 10 19mm PLYWOOD BASE FOR EACH UNIT CW PLASTIC LAMINATE FINISH.
- 11 UNDERMOUNTED SINK & FAUCET. REFER TO MECHANICAL DWGS.
- 12 RECESSED SHELVING PILASTERS & ADJUSTABLE SHELVES.
- 13 CABINET DOOR D-PULL HANDLE.
- 14 FIXED OPEN SHELVING WITH METAL SUPPORT BRACKET.
- 15 STAINLESS STEEL LAMINATED ON 25mm PLYWOOD COUNTERTOP AND UPSTAND AT SURROUNDING WALLS.
- 16 PHENOLIC SIDE GABLE COLOUR TO MATCH ADJACENT GLAZING SYSTEM MULLIONS.
- 17 PAINTED PLYWOOD GABLES W/ EXPOSED EDGES.
- 18 FACE OF FRAME TO HAVE FINISH TO MATCH DOOR FRONTS.
- 19 CUT OUT IN GABLE FOR CABCOOL FAN.
- 20 CUT OUT IN GABLE BETWEEN LEFT AND RIGHT BAYS.
- 21 CUT OUT IN BOTTOM OF CABINET.
- 22 CUT OUT IN BACK OF CABINET.
- 23 LINE OF SINK BEYOND.
- 24 PLYWOOD BACK SUPPORT FOR TV (REFER TO AV AND ELECTRICAL PLANS FOR LOCATION).

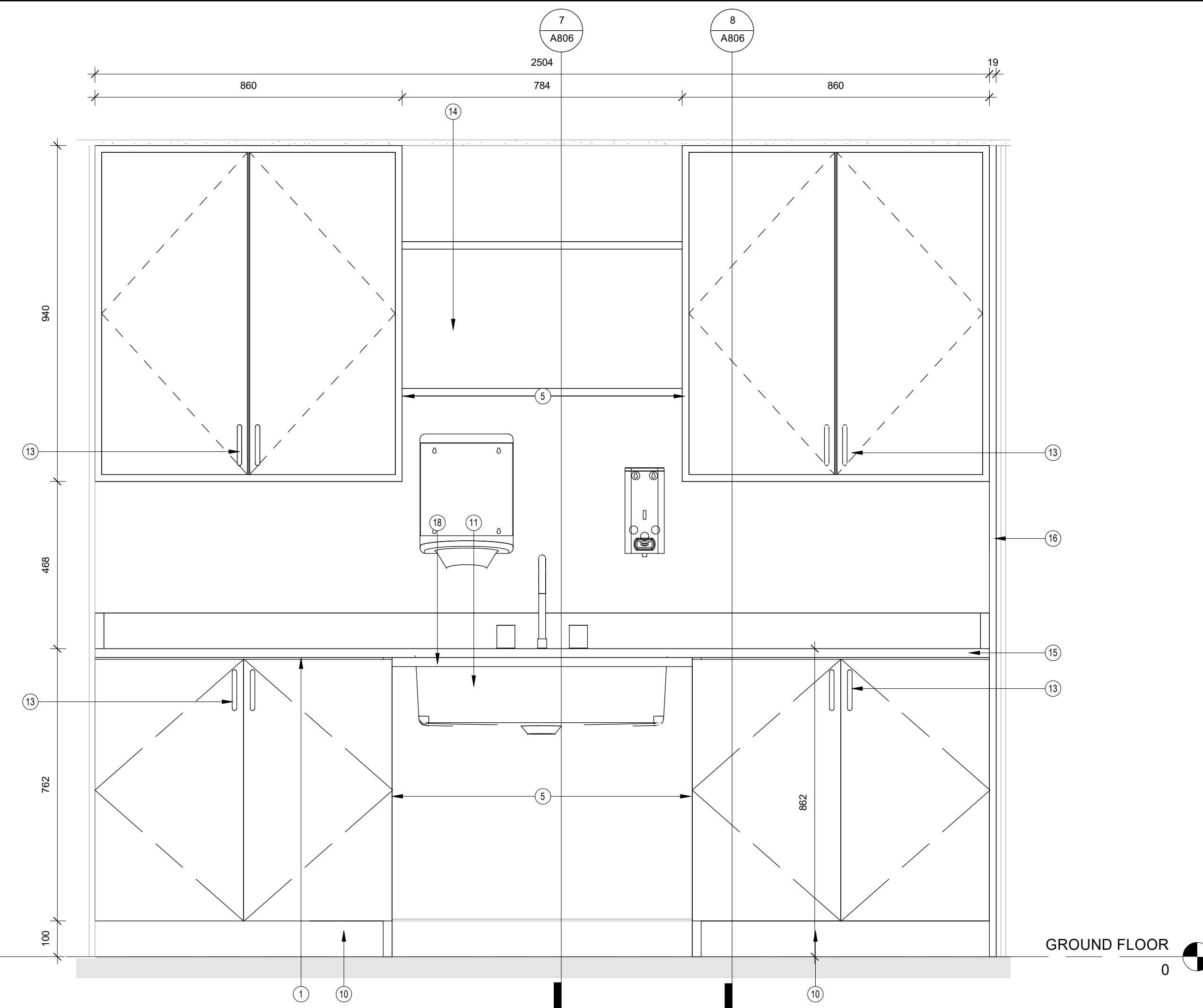
MILLWORK FINISHES:

- PL1 PLASTIC LAMINATE FINISH
- S01 SOLID SURFACE FINISH
- S11 16GA STAINLESS STEEL
- WC1 PEG BOARD WALL COVERING

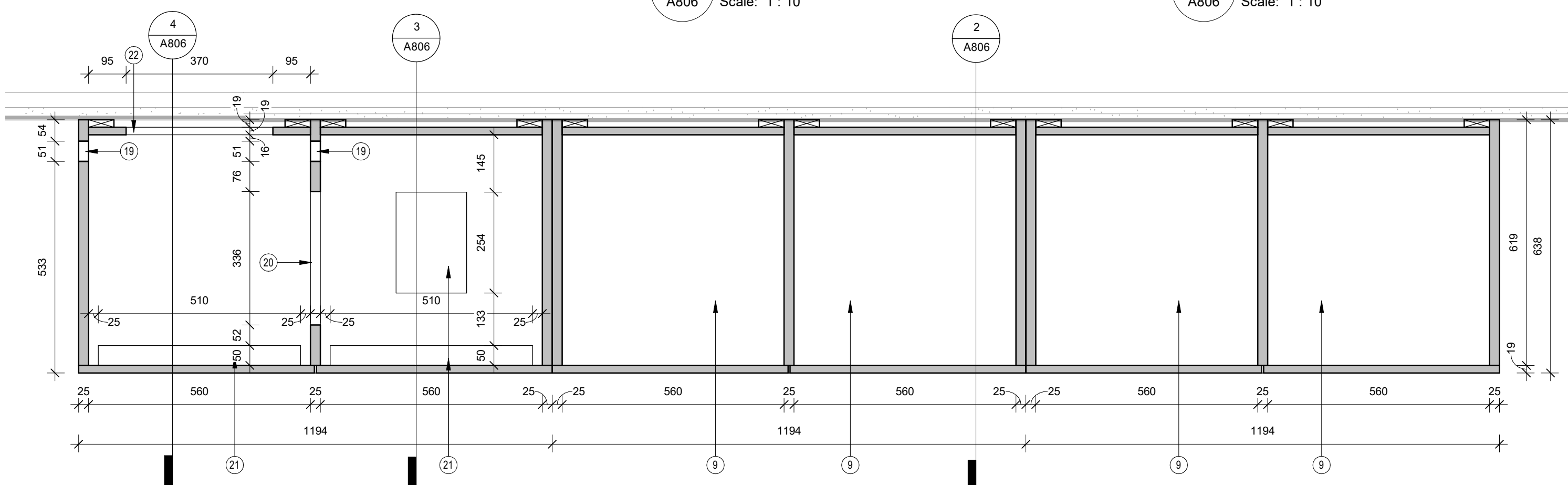


7 MW 120.2 - SECTION
A806 Scale: 1 : 10

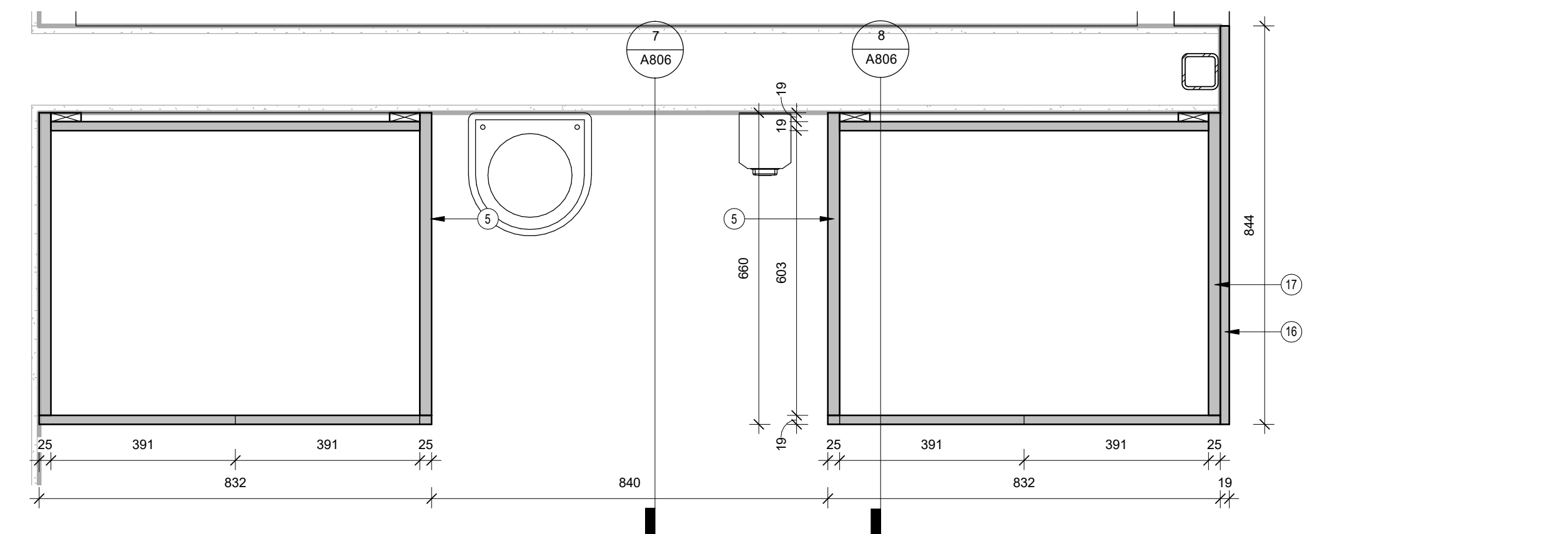
8 MW 120.2 - SECTION
A806 Scale: 1 : 10



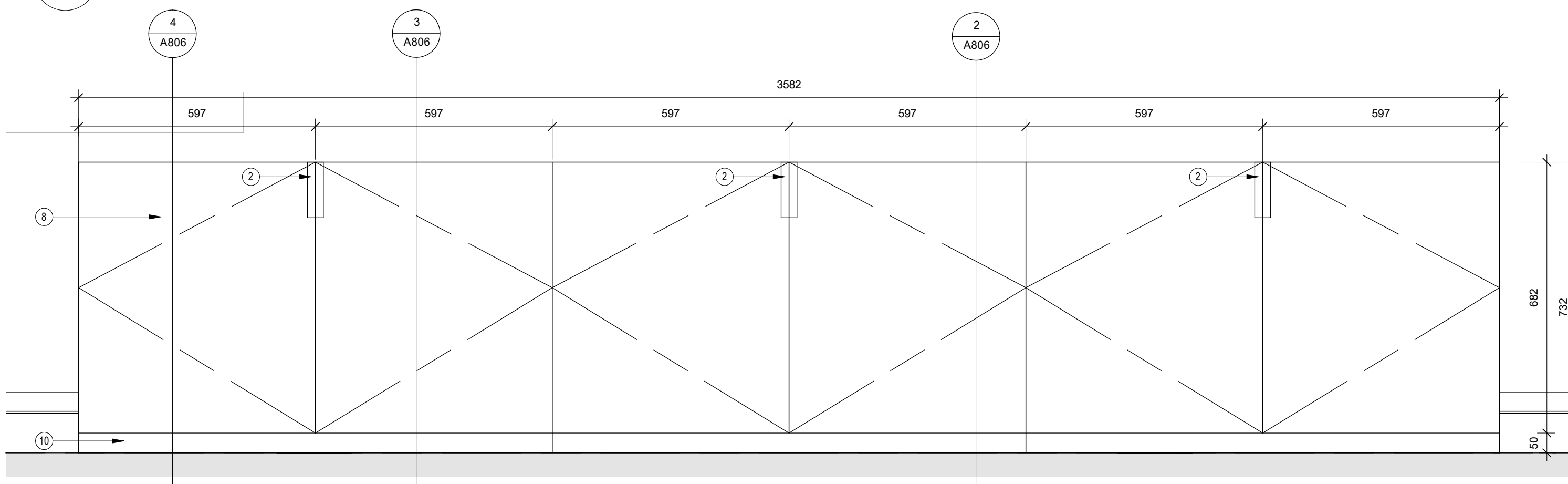
9 MW 120.2 - ELEVATION
A806 Scale: 1 : 10



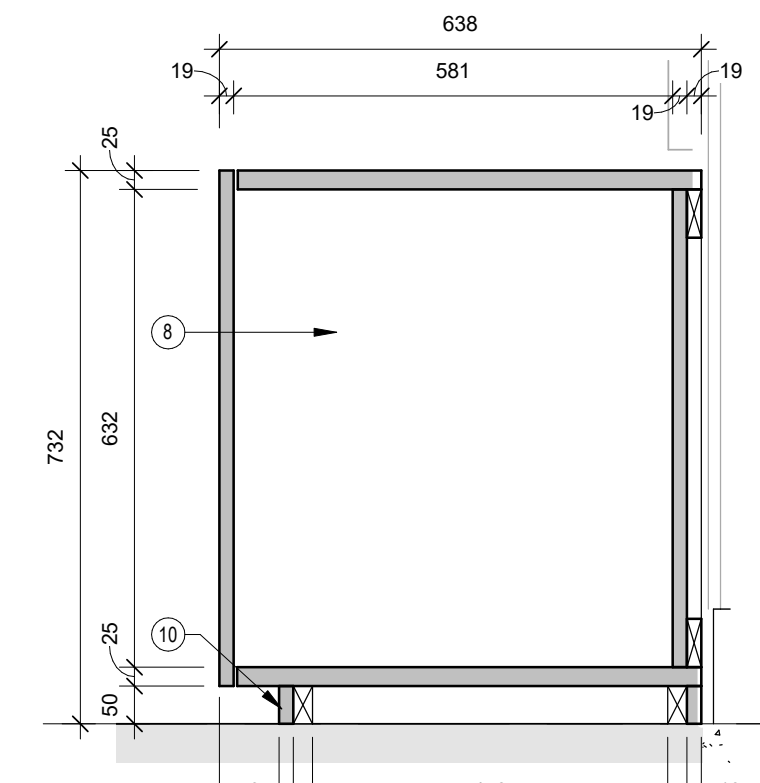
5 MW 118.1 - PLAN
A806 Scale: 1 : 10



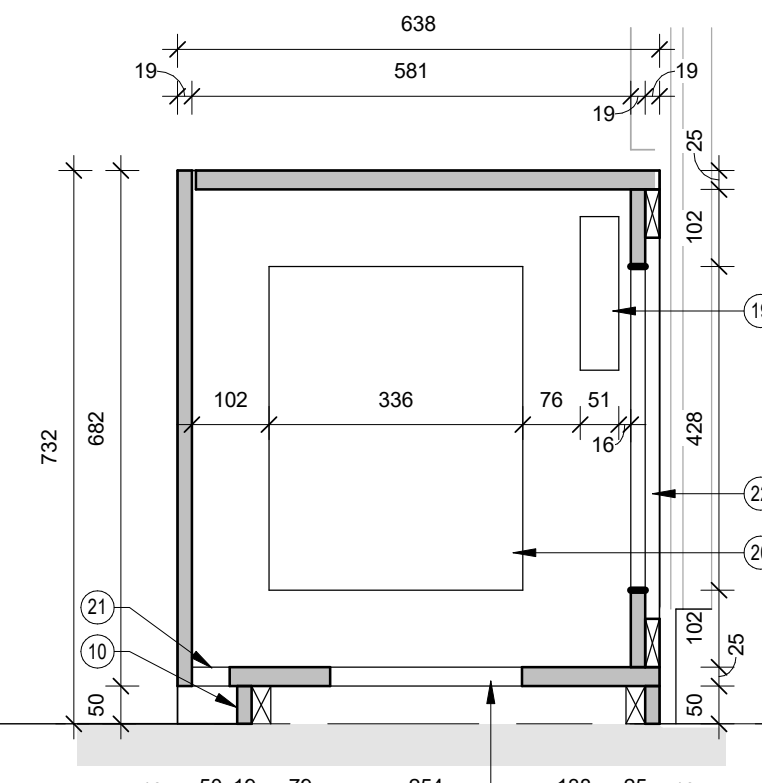
6 MW 120.2 PLAN
A806 Scale: 1 : 10



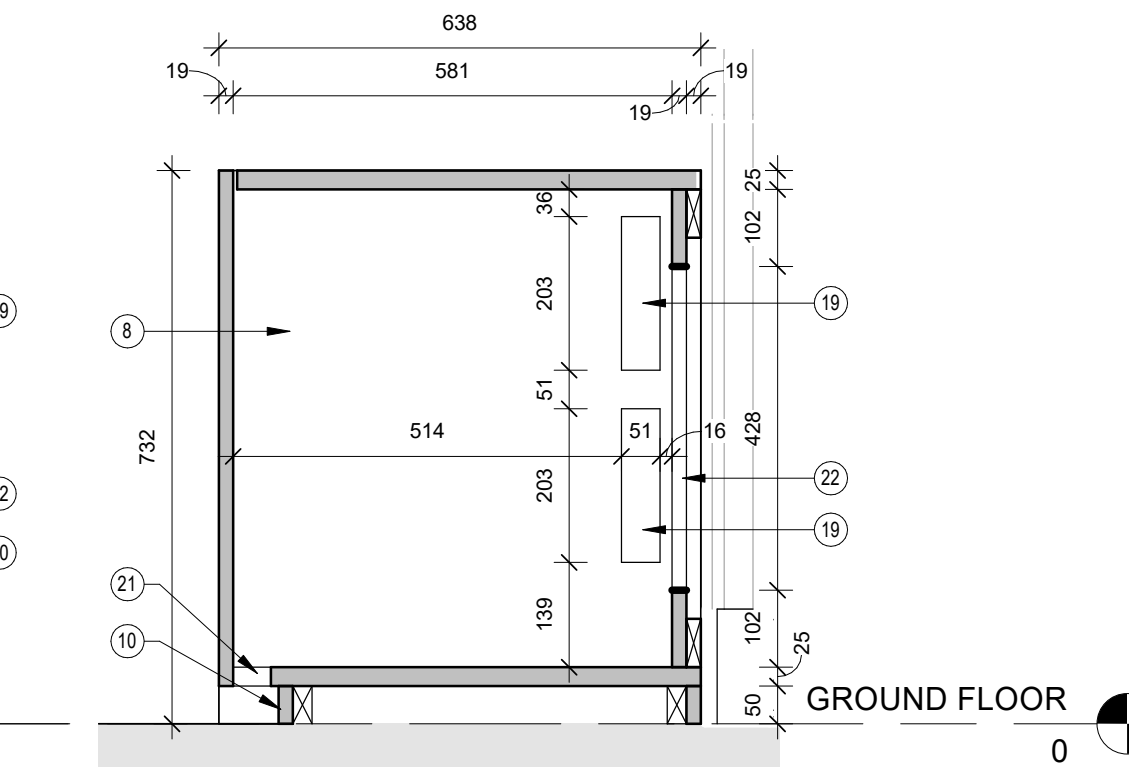
1 MW 118.1 - ELEVATION
A806 Scale: 1 : 10



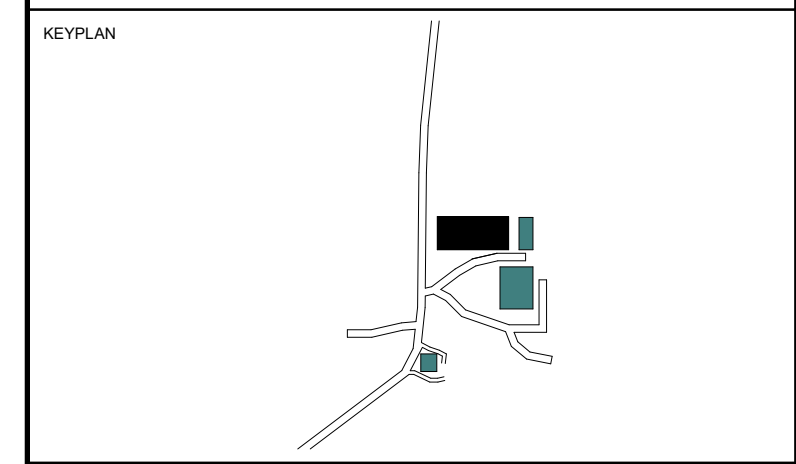
2 MW 118.1 - SECTION
A806 Scale: 1 : 10



3 MW 118.1 - SECTION
A806 Scale: 1 : 10



4 MW 118.1 - SECTION
A806 Scale: 1 : 10



No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

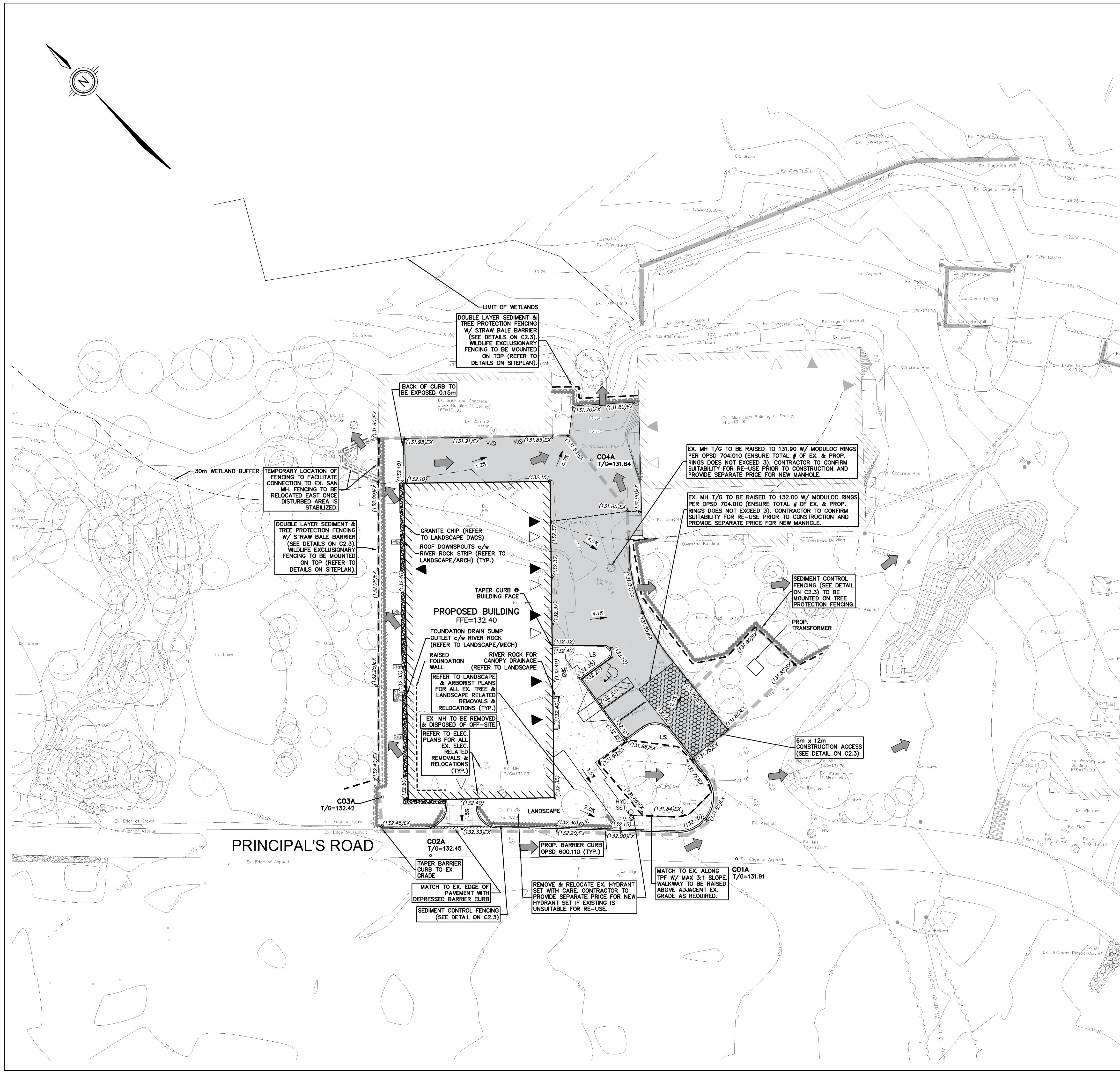
TITLE
MILLWORK DRAWINGS - CROBE

architects
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416.363.8877 bsnarchitects.com

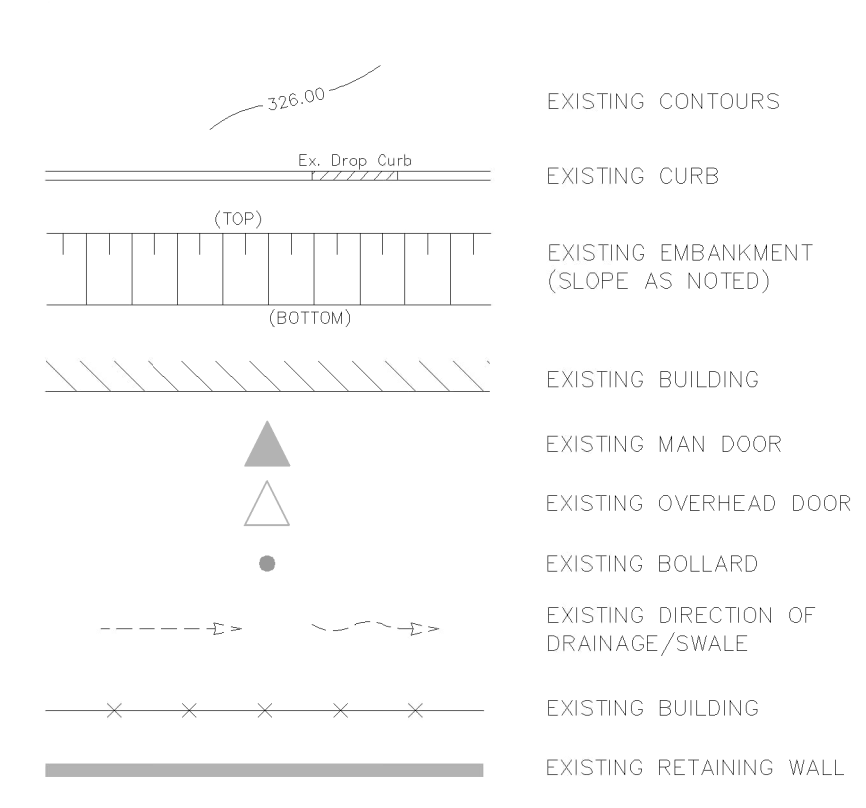


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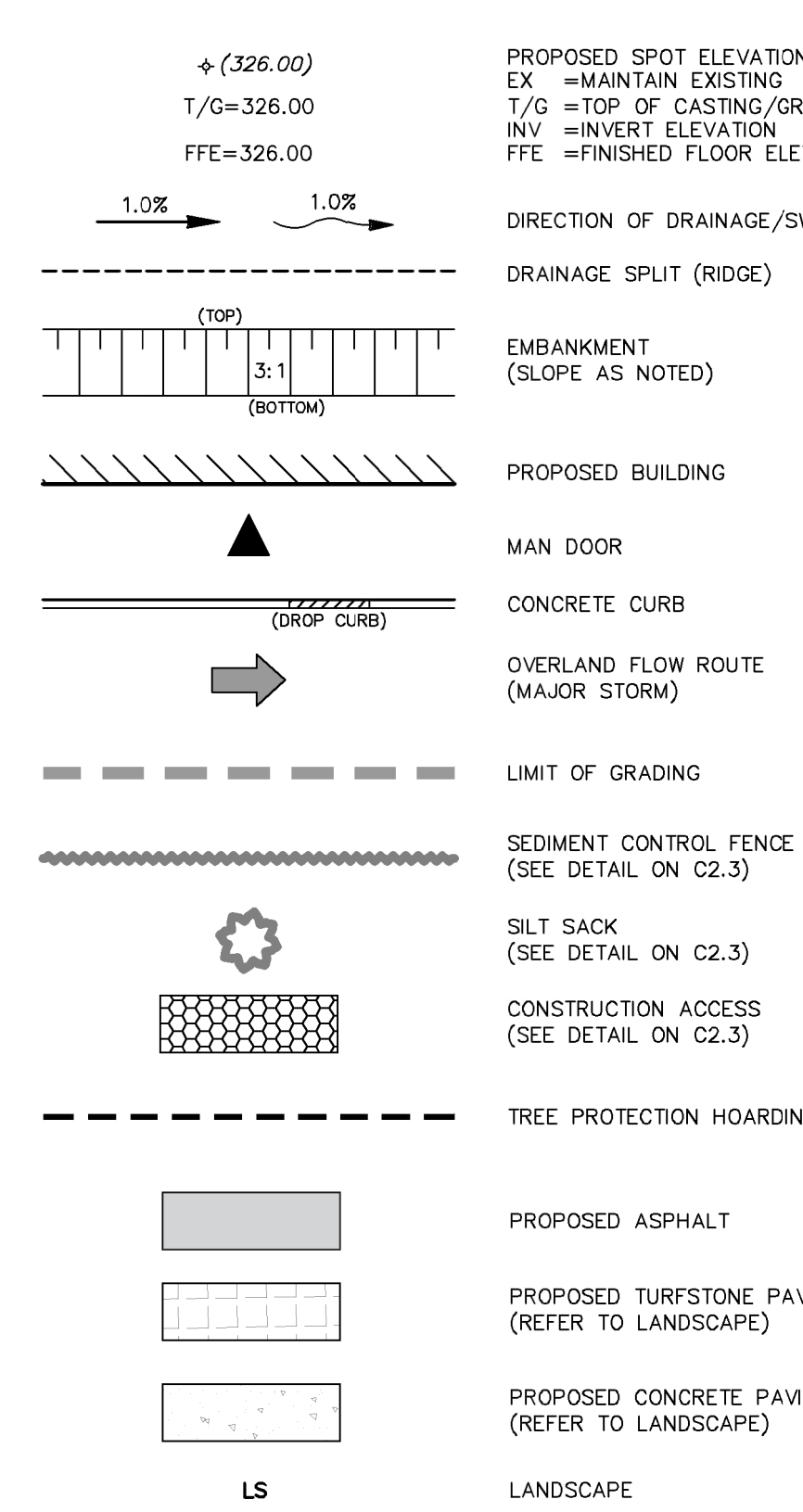
SCALE: 1 : 10	SHEET NO: A806
DATE: 10/02/24	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



LEGEND OF EXISTING FEATURES



LEGEND OF PROPOSED FEATURES



PAVEMENT STRUCTURE

MATERIAL	RECOMMENDED THICKNESS	
	LIGHT TRAFFIC	HEAVY TRAFFIC
ASPHALTIC CONCRETE	40mm	40mm
GRANULAR 'A' BASE	40mm	60mm
GRANULAR 'B' SUBBASE	150mm	150mm
	250mm	350mm

GRADING CERTIFICATION NOTE:

I HAVE REVIEWED THE PLANS FOR THE CONSTRUCTION OF THE PROPOSED PRE-ENGINEERED BUILDING LOCATED AT 3265 PRINCIPAL'S ROAD IN MISSISSAUGA, ONTARIO AND HAVE PREPARED THIS PLAN TO INDICATE THE COMPATIBILITY OF THE PROPOSAL TO EXISTING ADJACENT PROPERTIES AND MUNICIPAL SERVICES. IT IS MY BELIEF THAT ADHERENCE TO THE PROPOSED GRADES AS SHOWN WILL PRODUCE ADEQUATE SURFACE DRAINAGE AND PROPER FACILITY OF THE MUNICIPAL SERVICES WITHOUT ANY DETRIMENTAL EFFECT TO THE EXISTING DRAINAGE PATTERNS OR ADJACENT PROPERTIES.

BENCHMARK INFORMATION:
ELEVATIONS ARE REFERRED TO THE CITY OF MISSISSAUGA BENCHMARK NO. 58, LOCATED ON THE WEST FACE AT THE CORNER OF NO. 3057 MISSISSAUGA ROAD, HAVING A PUBLISHED ELEVATION OF 108.293 METERS.

CITY OF MISSISSAUGA

LEGEND OF EXISTING FEATURES

LEGEND OF PROPOSED FEATURES

PAVEMENT STRUCTURE

No.	DATE	DESCRIPTION
4.	2024-11-15	ISSUED FOR TENDER
3.	2024-09-17	ISSUED FOR PERMIT
2.	2024-06-12	RE-ISSUED FOR SPA
1.	2024-02-02	ISSUED FOR SPA

PRE-ENGINEERED BUILDING

University of Toronto Mississauga
3359 Mississauga Road

GRADING, EROSION & SEDIMENT CONTROL PLAN

C2.1

SCALE: 1:250
DRAWN: SDU
CHECKED: RDZ
DATE: 04/28/21
JOB: 38225-103

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THE CONTRACTOR AND SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND DATA OF THE WORK AND REPORT ANY DISCREPANCY IN WRITING TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.

THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AND SEALED BY THE ARCHITECT AND MARKED TOSSLED FOR CONSTRUCTION.

NOTE:
LOCATIONS AND SIZES OF ANY AND ALL ACCESS PANELS, LIGHTS, SWITCHES, EXIT SIGNS, AND OTHER SUCH DEVICES MUST BE APPROVED BY ARCHITECT PRIOR TO ERECTION OF FRAMING. ALL SUCH ITEMS CAST INTO CONCRETE WALLS OR SLABS MUST SIMILARLY BE APPROVED BEFORE CONCRETE IS POURED.

GENERAL NOTE:

i. I hereby certify that this drawing conforms in all respects to the site development plans and/or Engineer's Signature (if applicable) and Professional seal.

ii. The City of Mississauga requires that all working drawings submitted to the Building Division as part of application for the issuance of a building permit shall be certified by the architect or engineer as being in conformity with the site development plan as approved by the City of Mississauga.

iii. All exterior lighting will be recessed onto the site and will not reflect onto the adjacent properties.

iv. All rooftop mechanical unit shall be screened from view by the applicant.

v. Parking spaces reserved for people with disabilities must be identified by a sign, installed at the applicant's expense, in accordance with the By-law Requirements and Building Code Requirements.

vi. The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions.

vii. Grades will be met with a 3% maximum slope at the property lines and within the site.

viii. All damaged areas are to be reinstated with topsoil and sod prior to the release of securities.

ix. Signage shown on the site development plans is for information purposes only. All signs will be subject to the provisions of Sign by-law 0094-2002, as amended, and a separate sign application will be required through the Building Division.

x. Any fencing adjacent to municipal lands is to be located 15 cm (6.0 in.) inside the property line.

xi. City "shielded" lighting fixtures are permitted for all development, except for detached and semi-detached dwellings within 60 m (196.8 ft) of a residentially zoned property and must conform to the Engineer-Certified Lighting Plan.

xii. The Engineer-Certified Lighting Plan must be signed by the consulting Engineer.

xiii. The Owner covenants an agreement to construct and install "shielded" lighting fixtures on the subject lands, in conformity with the Site Plan and Engineer-Certified Lighting Plan to the satisfaction of the City of Mississauga.

xiv. The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions.

xv. Where planting is to be located in landscaped areas on top of an underground parking structure, it is the responsibility of the applicant to manage the coordination of the design of the underground parking structure with the Landscaping Architect and the existing Engineering, Underground parking structures with landscaping are to be capable of supporting the following loads:
- 15 cm of drainage gravel plus 40 cm topsoil or sod
- 15 cm of drainage gravel plus 80 cm topsoil or sod
Or
- Prefabricated sheet drain system with a compressive strength of 1000 Kpa plus 40 cm topsoil or sod
- Prefabricated sheet drain system with a compressive strength of 1000 Kpa plus 60 cm topsoil or shrubs
- Prefabricated sheet drain system with a compressive strength of 1000 Kpa plus 90 cm topsoil or trees
Termination 600 or approved equal.

xvi. The structural design of any retaining wall over 0.6 m in height or any retaining wall located on a property line is to be shown on the Site Grading Plan for this project and is to be approved by the Consulting Engineer for the project.

xvii. Continuous 15 cm high brick type poured concrete curbing will be provided between all asphalt and landscaped areas throughout the site.

xviii. All utility companies will be notified for location prior to the installation of the hoarding that lies within the site and within the limits of the City boundary area.

PROJECT NAME:
PRE-ENGINEERED BUILDING

PROJECT ADDRESS:
3265 PRINCIPAL'S ROAD

CITY IDENTIFIER:
11680800 (Z-24)

LEGAL DESCRIPTION:
PT LTS 3, 5 RANGE 1NDS., LT 4, PT LTS 3, 5 RANGE 2 NDS., PT LTS 3, 4 RANGE 3 NDS., PT BLK M PL 550, PT RDAL 67M RANGE 2 & 3 NDS. - 43R31617 PTS 1-6, 43R-18295 PT 1

SITE PLAN APPLICATION NUMBER:
SP 21004 W8

No.	DATE	DESCRIPTION
4.	2024-11-15	ISSUED FOR TENDER
3.	2024-09-17	ISSUED FOR PERMIT
2.	2024-06-12	RE-ISSUED FOR SPA
1.	2024-02-02	ISSUED FOR SPA

PRE-ENGINEERED BUILDING

University of Toronto Mississauga
3359 Mississauga Road

PROFESSIONAL ENGINEER

2024-11-15
R. D. ZHOU
100567167

PROVINCE OF ONTARIO

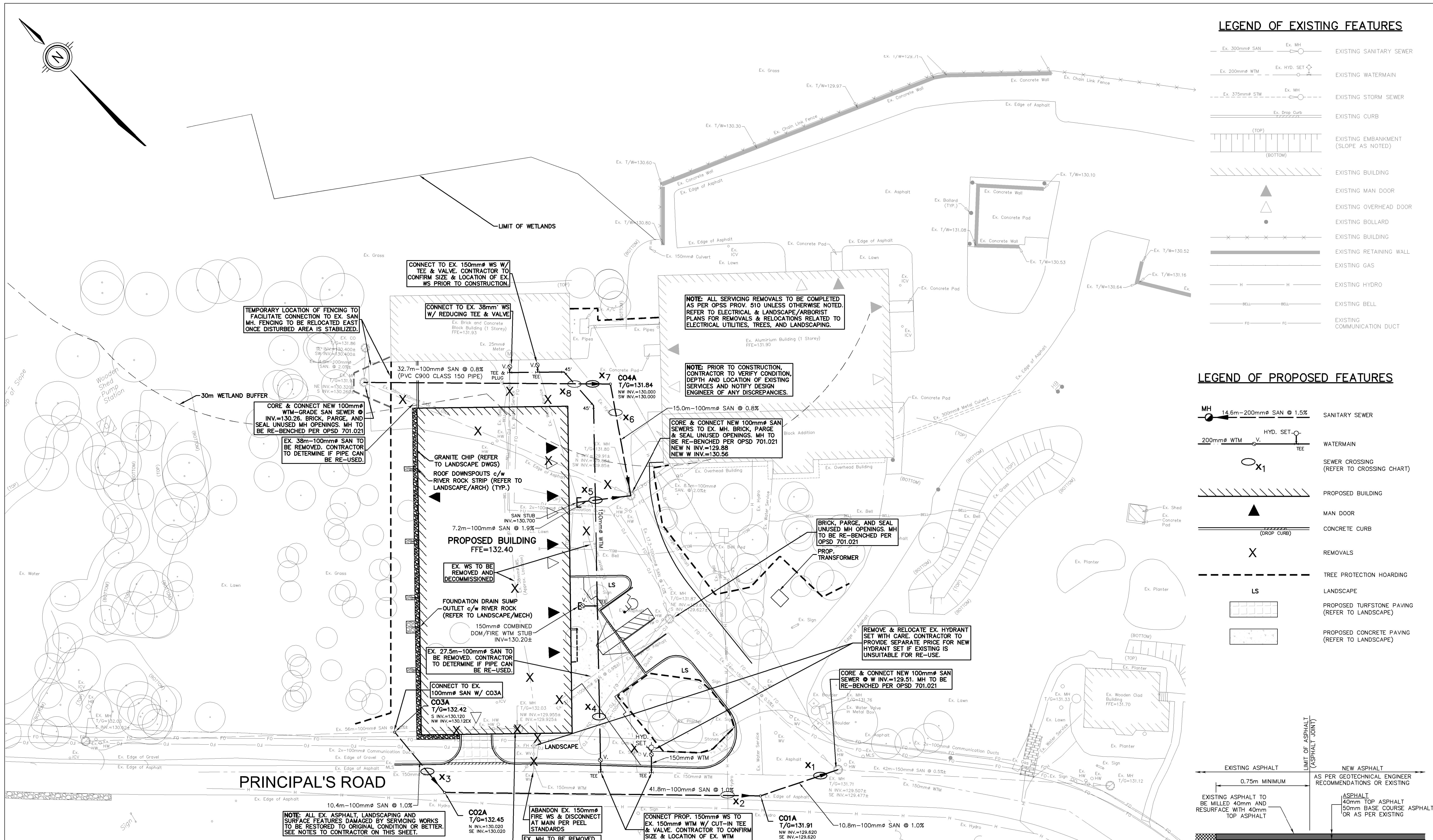
Baird Sampson architects

Neuert
117 Peter Street, Suite 305
Toronto, Ontario
Canada M5V 1P9
T: (416) 363-8877
F: (416) 363-4029
mail@bsarchitects.com

SITE GRADING, EROSION & SEDIMENT CONTROL PLAN

SCALE: 1:250
DRAWN: SDU
CHECKED: RDZ
DATE: 04/28/21
JOB: 38225-103

C2.1

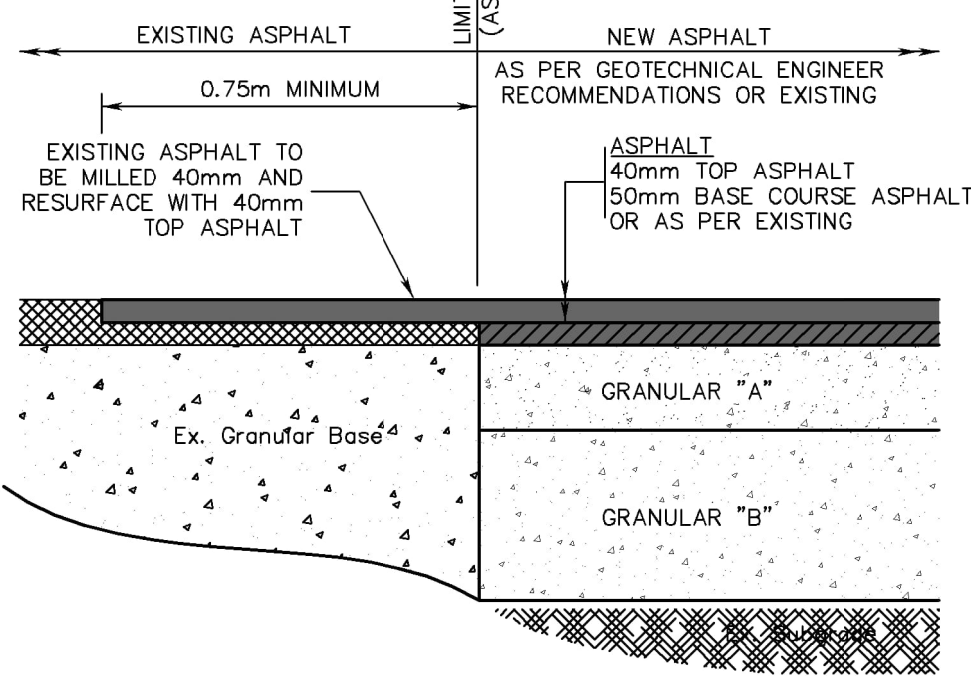


LEGEND OF EXISTING FEATURES

- Ex. 300mm SAN
- Ex. 200mm WTM
- Ex. 375mm STM
- Ex. Drop Curb
- EXISTING EMBANKMENT (SLOPE AS NOTED)
- EXISTING BUILDING
- EXISTING MAN DOOR
- EXISTING OVERHEAD DOOR
- EXISTING BOLLARD
- EXISTING BUILDING
- EXISTING RETAINING WALL
- EXISTING GAS
- EXISTING HYDRO
- EXISTING BELL
- EXISTING COMMUNICATION DUCT

LEGEND OF PROPOSED FEATURES

- MH 14.6m-200mm SAN @ 1.5%
- 200mm WTM
- HYD. SET
- TEE
- SEWER CROSSING (REFER TO CROSSING CHART)
- PROPOSED BUILDING
- MAN DOOR
- CONCRETE CURB
- REMOVALS
- TREE PROTECTION HOARDING
- LANDSCAPE
- PROPOSED TURFSTONE PAVING (REFER TO LANDSCAPE)
- PROPOSED CONCRETE PAVING (REFER TO LANDSCAPE)



ASPHALT LAP JOINT DETAIL N.T.S.

REGION OF PEEL NOTES

- PUBLIC AND PRIVATE SERVICES, APPURTENANCES, MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH THE MOST CURRENT REGION OF PEEL STANDARDS AND SPECIFICATIONS, THE LOCAL MUNICIPALITY'S REQUIREMENTS FOR THE ONTARIO BUILDING CODE AND ONTARIO PROVINCIAL STANDARDS. ALL WORKS SHALL ADHERE TO ALL APPLICABLE LEGISLATION, INCLUDING REGIONAL BY-LAWS.
- WATERMAIN AND/OR WATER SERVICE MATERIALS 100MM (4") AND LARGER MUST BE PVC DR-18 CONSTRUCTED AS PER AWWA C900-16, SIZE 50MM (2") AND SMALLER MUST BE TYPE "K" SOFT COPPER CONSTRUCTED AS PER ASTM B88-49.
- WATERMAIN AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7M (5'6") WITH A MINIMUM HORIZONTAL SPACING OF 1.2M (4') FROM THEMSELVES AND ALL OTHER UTILITIES.
- PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING ETC. MUST BE PROVIDED WITH AT LEAST A 50MM (2") OUTLET ON 100MM (4") AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN ONTO A PARKING LOT OR DOWN A DRAIN, ON FIRE LINES, FLUSHING OUTLET TO BE 100MM (4") DIAMETER MINIMUM ON A HYDRANT.
- ALL CURB STOPS TO BE 3.0M (10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
- HYDRANT AND VALVE SET TO REGION STANDARD 1-6-1, DIMENSION A AND B, 0.7M (2") AND 0.9M (3") AND TO HAVE PUMPER NOZZLE.
- WATERMANS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED SITE PLAN, COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.
- WATERMANS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3M (12") OVER 0.5M (20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
- ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
- ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED OR BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION.
- LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
- THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THE WORK, WHETHER SHOWN ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO THE SAME.
- THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO THE UTILITIES PRIOR TO CROSSING SUCH UTILITIES, FOR THE PURPOSE OF INSPECTION BY THE CONCERNED UTILITY, THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.
- ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE, CONSISTENT WITH THE DEGREE OF HAZARD, FOR BACKFLOW PREVENTION OF THE ACTIVE DISTRIBUTION SYSTEM, CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8.
- ALL WATER METERS MUST BE INSTALLED IN HEATED AND ACCESSIBLE SPACE.

SEWER CROSSING CHART

CROSSING #	SEWER TYPE	SEWER SIZE (mm)	CROSSING ELEVATION	NOTES
X1	EX.WTM	150	INV=129.95±	MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. WTM.
	SAN	100	OBV=129.62	
X2	EX.HYDRO	UNKNOWN	UNKNOWN	MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. HYDRO.
	SAN	100	OBV=129.76 INV=129.66	
X3	EX.WTM	150	INV=130.65±	MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. WTM.
	SAN	100	OBV=130.15	
X4	EX.COM	UNKNOWN	UNKNOWN	MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. COMMUNICATION DUCTS.
	WTM	150	OBV=130.25	

X5	SAN	100	INV=130.65	MAINTAIN MIN. 0.5m VERTICAL CLEARANCE.
	WTM	150	OBV=130.15	
X6	EX.HYDRO	UNKNOWN	UNKNOWN	MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. HYDRO.
	SAN	100	OBV=130.08 INV=129.98	
X7	EX.HYDRO	UNKNOWN	UNKNOWN	MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. HYDRO.
	SAN	100	OBV=130.12 INV=130.02	
X8	SAN	100	INV=130.04	DEFLECT WTM UNDER SANITARY, MAINTAIN MIN. 0.5m VERTICAL CLEARANCE.
	WTM	150	OBV=129.54	

BENCHMARK INFORMATION:
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NOTES TO CONTRACTOR:

- INSPECTION:** CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2. GENERAL REVIEW. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
- CONFIRMATION OF EXISTING INVERTS:** 72 HOURS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS TO LOCATE, EXPOSE AND VERIFY INVERTS OF EXISTING SEWERS AT CONNECTION POINTS WITH THE ENGINEER PRESENT. SHOULD THE CONTRACTOR PROCEED WITHOUT COMPLETING THESE LOCATES, EXTRA COSTS RESULTING FROM DELAYS AND STANDBY TIME WILL NOT BE CONSIDERED.
- RESTORATION:** CONTRACTOR TO RESTORE TO ORIGINAL CONDITION OR BETTER ALL EXISTING ASPHALT, LANDSCAPING, CONCRETE SIDEWALKS AND CURBS, AND ABOVE GROUND FEATURES DAMAGED BY THE INSTALLATION OF NEW UNDERGROUND SERVICES. NEW ASPHALT TO BE MATCHED INTO EXISTING ASPHALT USING ASPHALT LAP JOINT AS PER DETAIL ON THIS DRAWING.

CITY OF MISSISSAUGA

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN WHOLE OR IN PART IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

THE CONTRACTOR AND SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND DATA ON THE WORK AND REPORT ANY DISCREPANCY IN WRITING TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.

THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AND SEALED BY THE ARCHITECT AND MARKED TO BE USED FOR CONSTRUCTION.

NOTE:
LOCATIONS AND SIZES OF W/ AND ALL ACCESS PANELS, LIGHTS, SWITCHES, EXIT SIGNS, AND OTHER SUCH DEVICES MUST BE APPROVED BY ARCHITECT PRIOR TO ERECTION OF FRAMING. ALL SUCH ITEMS CAST INTO CONCRETE WALLS OR SLABS MUST SIMILARLY BE APPROVED BEFORE CONCRETE IS POURED.

GENERAL NOTE:
I. I hereby certify that this drawing conforms in all respects to the site development plans Architect or Engineer's Signature (if applicable) and Professional Seal.
II. The City of Mississauga requires that all working drawings submitted to the Building Division as part of an application for the issuance of a building permit shall be certified by the architect or engineer in conformity with the site development plan as approved by the City of Mississauga.
III. All exterior lighting will be recessed onto the site and will not infringe upon the adjacent properties.
IV. All rooftop mechanical unit shall be screened from view by the applicant.
V. Parking spaces reserved for people with disabilities must be identified by a sign, installed at the applicant's expense, in accordance with the By-law Requirements and Building Code Requirements.
VI. The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions.
VII. Grades will be met with a 3% maximum slope at the property lines and within the site.
VIII. All damaged areas are to be reinstated with topsoil and sod prior to the release of securities.
IX. Signage shown on the site development plans is for information purposes only. All signs will be subject to the provisions of Sign by-law 0094-2002, as amended, and a separate sign application will be required through the Building Division.
X. Any fencing adjacent to municipal lands is to be located 15 cm (6.0 in) inside the property line.
XI. Only "shielded" lighting fixtures are permitted for all development, except for detached and semi-detached dwellings within 60 m (196.8 ft) of a residentially zoned property and must conform to the Engineer Certified Lighting Plan.
XII. The Engineer Certified Lighting Plan must be signed by the consulting Engineer.
XIII. The Owner consents to construct and install "shielded" lighting fixtures on the subject lands, in conformity with the Site Plan and Engineer Certified Lighting Plan in accordance with the City of Mississauga.
XIV. The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions.
XV. Where planting is to be located in landscaped areas on top of an underground parking structure, it is the responsibility of the applicant to engage the coordination of the design of the underground parking structure with the landscape architect and the consulting Engineering. Underground parking structures with landscaping are to be capable of supporting the following loads:
- 15 cm of drainage gravel plus 60 cm topsoil for shrubs
- 15 cm of drainage gravel plus 80 cm topsoil for trees
Or
- Prefabricated sheet drain system with a compressive strength of 1000 Kpa plus 40 cm topsoil or sod
- Prefabricated sheet drain system with a compressive strength of 1000 Kpa plus 60 cm topsoil or shrubs
- Prefabricated sheet drain system with a compressive strength of 1000 Kpa plus 90 cm topsoil or trees
Tensar 600 or approved equal
XVI. The structural design of any retaining wall over 0.6 m in height or any retaining wall located on a property line is to be shown on the Site Grading Plan for this project and is to be approved by the Consulting Engineer for the project.
XVII. Continuous 15 cm high braille type poured concrete curbing will be provided between all asphalt and landscaped areas throughout the site.
XVIII. All utility companies will be notified for locates prior to the installation of the footing that lies within the site and within the limit of the City boundary area.

PROJECT NAME: PRE-ENGINEERED BUILDING
PROJECT ADDRESS: 3057 PRINCIPALS ROAD
CITY IDENTIFIER: 11680800 (Z-24)
LEGAL DESCRIPTION: PT LTS 3, 5 RANGE 1NDS., LT 4, PT LTS 3, 5 RANGE 2 NDS., PT LTS 3, 4 RANGE 3 NDS., PT BLK M PL 550, PT RDAL BTH RANGE 2 & 3 NDS., 43R1817 PTS 1-6, 43R-18296 PT 1
SITE PLAN APPLICATION NUMBER: SP 21004 W8

No.	DATE	DESCRIPTION
4.	2024-11-15	ISSUED FOR TENDER
3.	2024-09-17	ISSUED FOR PERMIT
2.	2024-06-12	RE-ISSUED FOR SPA
1.	2024-02-02	ISSUED FOR SPA

PRE-ENGINEERED BUILDING
University of Toronto Mississauga
3359 Mississauga Road

Engineers, Scientists, Surveyors

Baird Sampson Neuert architects
117 Peter Street, Suite 305
Toronto, Ontario
Canada M5V 1P9
T: (416) 363-8877
F: (416) 363-4029
mail@bsarchitects.com

SITE SERVICING PLAN

SCALE:	1:250
DRAWN:	SDU
CHECKED:	RDZ
DATE:	04/28/21
JOB:	38225-103

C2.2

LEGEND

	PROPOSED DECIDUOUS TREE		EXISTING TREE TO REMAIN AND BE PROTECTED
	PROPOSED CONIFEROUS TREE		EXISTING TREE TO BE REMOVED
	PLANTING Refer to L200 Planting Plan		ELC / CVCA DRIPLINE BOUNDARY
	NATIVE SEED MIX		30m WETLAND BOUNDARY OFFSET
	NHS WOODLAND BUFFER PLANTING AREA		10m WETLAND BOUNDARY OFFSET
	NHS WOODLAND COMPENSATION PLANTING AREA		WETLAND BOUNDARY
	CVC WETLAND & NHS WOODLAND COMPENSATION PLANTING AREA		EXISTING TREE PROTECTION ZONE
	TURFSTONE PAVING		TREE PROTECTION HOARDING
	CONCRETE PAVING		SALAMANCA EXCLUSION FENCE
	GRANULAR MAINTENANCE EDGE		BIKE RACK UTM Standard
	UNIT BLOCK MAINTENANCE EDGE		PRECAST CONCRETE BENCH
	RIVER ROCK STRIP		Waste Receptacles UTM Standard - By Owner
	Concrete Filled Steel HSS Bollard Refer to Architectural		Light Bollard Refer to Electrical
			Accessible Signage Refer to Site Plan
			DRAINAGE TILE

PROTECTION AND PRESERVATION OF EXISTING VEGETATION NOTE:
 All existing trees (singles and groups) which are to remain shall be fully protected with hoarding erected beyond the drip line of the tree canopy to the satisfaction of the Planning and Building Department prior to the issuance of the building permit. Areas within the hoarding shall remain undisturbed and shall not be used for the storage of building materials and equipment.

The Planning and Building Department will inspect the hoarding of trees on private property, while the Community Services Department will inspect the hoarding of public trees. Hoarding must remain in place until an inspection by the City and an appropriate removal time has been agreed upon.

The developer or agents shall take every precaution necessary to prevent damage to the existing vegetation to be retained. Where limbs or portions of trees are removed to accommodate construction, they will be removed in accordance with accepted arboriculture practice. Where root systems of protected trees adjacent to construction are exposed or damaged they shall be neatly trimmed and the area backfilled with appropriate material to prevent desiccation.

No open trenching shall occur through tree preservation zones (TPZ). Only directional boring can be used for service installation in these areas.

Where necessary, vegetation will be given an overall pruning to restore the balance between roots and top growth, or to restore its appearance.

Trees that have died or have been damaged beyond repair shall be removed and replaced at the owners' expense with trees of a size and species approved by the Planning and Building Department.

OWNER'S NOTE:

We agree to implement the approved Site Plan and Landscape Plans within 18 months after the execution of the Site Plan Undertaking and will retain the Landscape Architect to make periodic site inspections. Upon completion of the works we will forward to the City of Mississauga a copy of the Completion Notification Certificate from the Landscape Architect and the applicable inspection fee.

The Landscape Architect or Consulting Engineer will provide certification that:

- the recommendations outlined in the Acoustic Vibration Study have been implemented in accordance with the study;
- the Engineering Certificate lighting Plan and the LID techniques for this project have been installed in accordance with the approved plans.

Any revision to the Site Plan, Landscape Plans and Engineer Certified Lighting Plan (if applicable) will be submitted to the Planning and Building Department, Development and Design Division, City of Mississauga for review and approval, prior to the commencement of the works.

We hereby authorize the City, its authorized agents, servants or employees to enter upon our land to carry out inspections from time to time and agree to indemnify the City and its authorized agents and save them harmless from any and all actions arising out of the exercise by the City, its authorized agents, servants, or employees of the rights hereby given to them. We undertake to notify the City forthwith of any change of ownership of the said lands.

Signature of Owner:

Name of Owner:

Address:

Date:

GRADING NOTE:

I hereby certify that this Landscape Plan conforms to the Site Grading Plan for this Application.

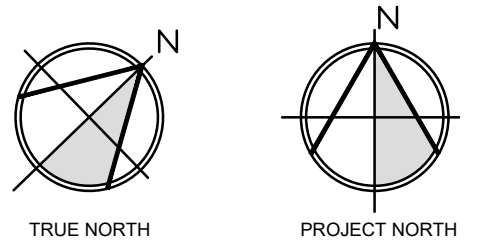
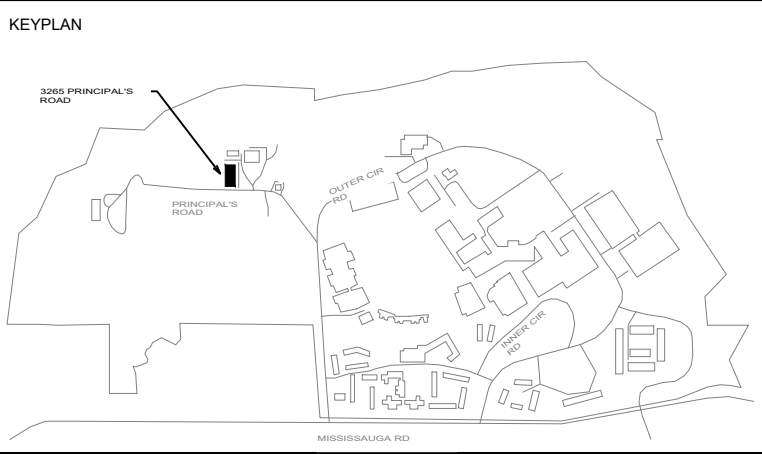
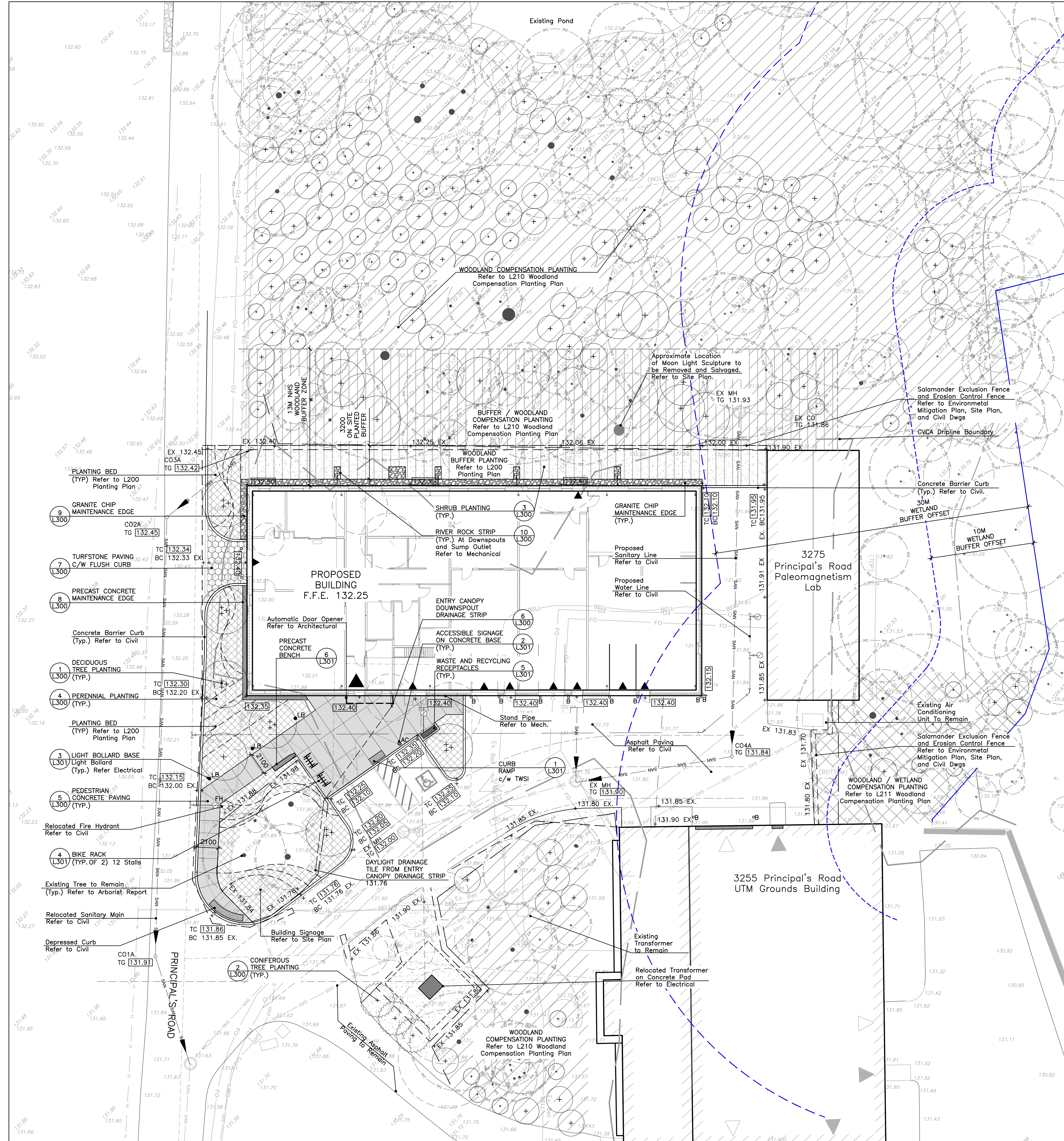
BRAD FLEISHER

Signature of Landscape Architect

Print Name:

Date:

04/09/2024



No.	ISSUANCE	DATE
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6	Issued for Building Permit	2024-09-06
7	100% Construction Documentation	2024-11-05
8	Issued for Tender	2024-11-15

DISCLAIMER:
 NOT FOR CONSTRUCTION



CLIENT
 University of Toronto Mississauga

PROJECT
 Pre-Engineered Building
 3359 Mississauga Road

TITLE
 LANDSCAPE PLAN



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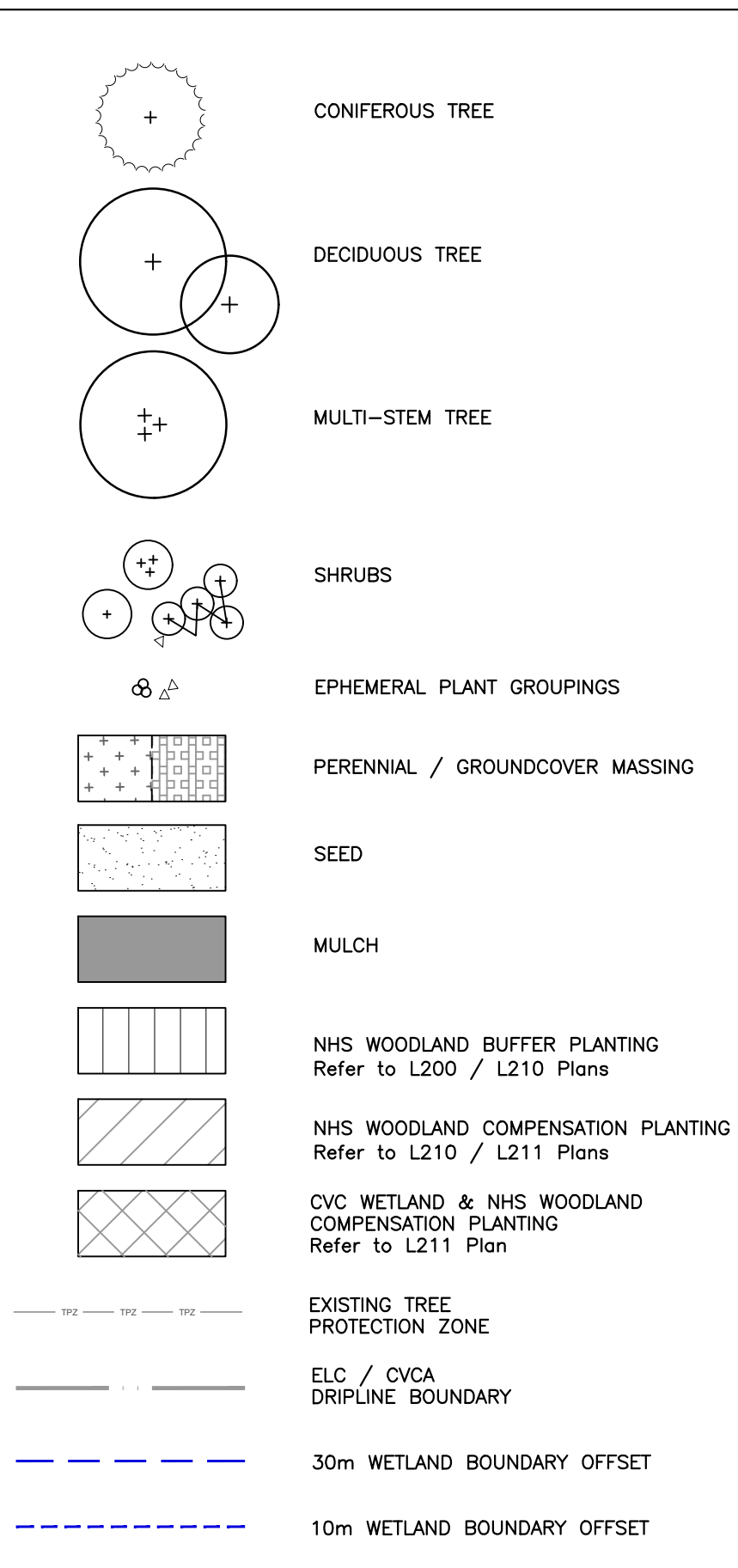
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SCALE:	1:200	SHEET NO.:
DATE:	November 2023	L100
PROJECT NO.:	231533	
DRAWN BY:	JBKH	
CHECKED BY:	KHBF	

PLANTING NOTES:

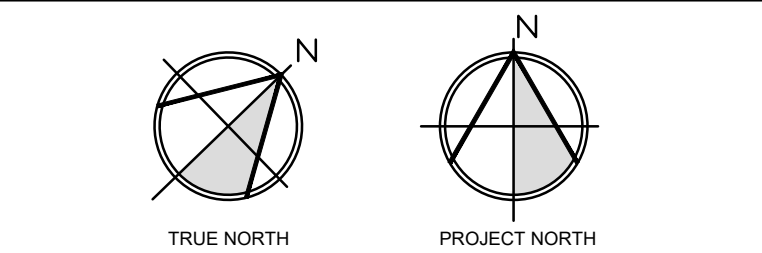
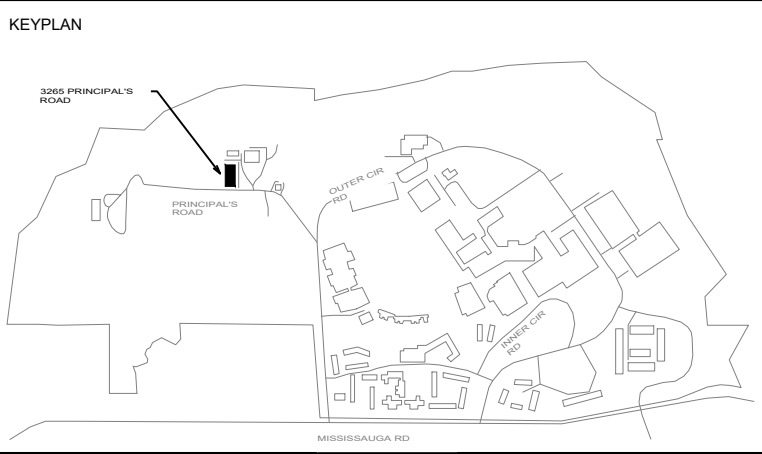
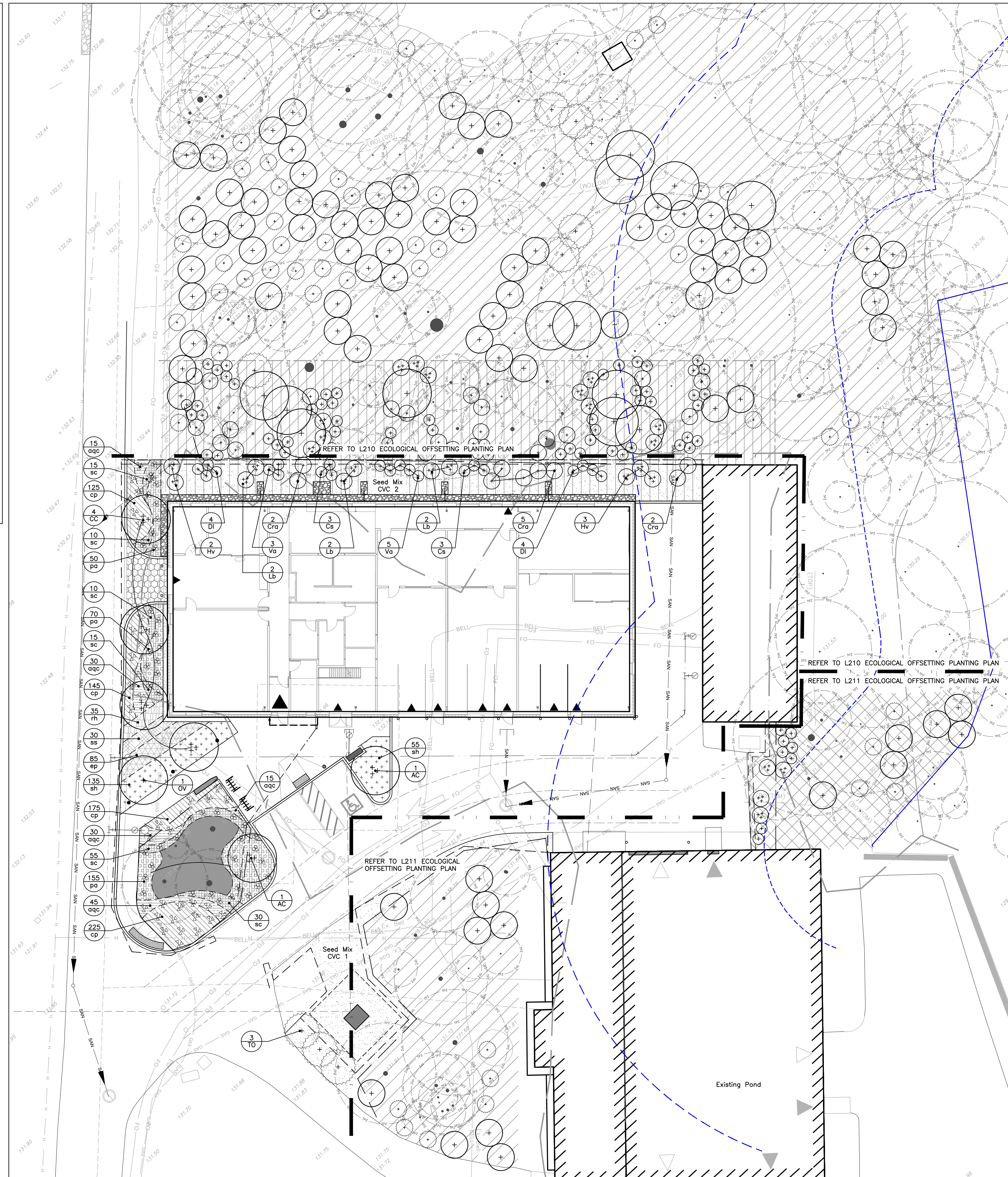
- All plant material is to meet the standards as outlined in the Canadian Standards for Nursery Stock, current edition.
- For all contractor purchased materials plant sizes will be as measured on site. Nursery waybills will not be acceptable for determination of plant sizes.
- Protect plant material from frost, excessive heat, wind and sun during transportation.
- All planting beds have subsoil scarified to a depth of 450mm.
- All planting soil to be amended with leafmulch equivalent to 13% dry weight of the soil.
- Warranty period for all planting is one year from substantial completion. Warranty replacements of all plant material will be undertaken by the contractor as requested by the landscape architect at any time during the warranty period.
- For burlapped root balls, cut away top one third of wrapping and wire basket without damaging root ball. Do not pull burlap or rope from under root ball. For potted plants remove entire container.
- Backfill soil in 150mm lifts. Tamp each lift to eliminate air pockets. When two thirds of depth of planting pit has been backfilled, fill remaining space with water. After water has penetrated into soil, backfill to finish grade.
- Shrubs shown in groups are to be planted in continuous plant beds as shown on planting detail.
- Plant material installed following leaf drop in the fall will be accepted after the start of the next growing season provided that acceptance conditions are fulfilled.
- Any planting or landscaping work that is rejected at the final inspection will be corrected in a timely manner at contractor's expense.
- Rejected plant material must be removed from the site within one working day.

LEGEND



PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	CONDITION	COMMENTS
TREES						
CC	<i>Cercis canadensis</i>	Eastern Redbud	4	45mm	WB	Treeform
OV	<i>Ostrya virginiana</i>	Ironwood	1	60mm	WB	
TO	<i>Thuja occidentalis</i>	Eastern White Cedar	3	1.8m ht.	BB	
		Total	8			
SHRUBS						
AC	<i>Amelanchier canadensis</i>	Shadblow Serviceberry	2	2.25m ht.	WB	3-Stem Clump
Cs	<i>Cornus sericea</i>	Red Osier Dogwood	6	60cm, 3 gal	Potted	
Cra	<i>Cornus racemosa</i>	Gray Dogwood	9	125cm, 3 gal.	Potted	
DI	<i>Dierilla lonicera</i>	Bush Honeysuckle	8	60cm, 3 gal		
Hv	<i>Hamamelis virginiana</i>	Witchhazel	5	125cm, 3 gal.	Potted	Clump
Lb	<i>Lindera benzoin</i>	Spicebush	6	125cm, 3 gal.		Clump
Rc	<i>Ribes cynosbati</i>	Eastern Prickly Gooseberry	8	60cm, 3 gal	Potted	
Ro	<i>Rubus odoratus</i>	Flowering raspberry	10	60cm, 3 gal	Potted	
Va	<i>Viburnum acerifolium</i>	Mapleleaf viburnum	8	60cm, 3 gal	Potted	
		Total	62			
PERENNIALS						
aqc	<i>Aquilegia canadensis</i>	Wild Columbine	135	1 gal	Potted	
ep	<i>Echinacea purpurea</i>	Purple Coneflower	85	1 gal	Potted	
rh	<i>Rudbeckia hirta</i>	Black Eyed Susan	35	1 gal	Potted	
sc	<i>Symphotrichum cordifolium</i>	Heart leaved aster	135	1 gal	Potted	
GROUNDCOVERS						
cp	<i>Carex pensylvanica</i>	Oak Sedge	670	1 gal	Potted	
FERNS						
pa	<i>Polystichum acrostichoides</i>	Christmas Fern	275	1 gal	Potted	
GRASSES						
ss	<i>Schizachyrium scoparium</i>	Little Bluestem	30	1 gal	Potted	
sh	<i>Sporobolus heterolepis</i>	Prairie Dropseed	190	1 gal	Potted	
EPHEMERALS						
dc	<i>Dicentra cucullaria</i>	Dutchman's Breeches	175	1 gal	Potted	Plant in Groups of 5-7
tg	<i>Trillium grandiflorum</i>	White Trillium	225	1 gal	Potted	Plant in Groups of 5-7
SEED MIXTURE - CVC 1 - UPLAND MIX						
Scientific Name	Common Name	%	Scientific Name	Common Name	%	
<i>Anemone canadensis</i>	Canada Anemone	1%	<i>Carex vulpinoidea</i>	Fox Sedge	25%	
<i>Asclepias syriaca</i>	Common Milkweed	2%	<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia Wildrye	35%	
<i>Carex granularis</i>	Limestone Meadow Sedge	15%	<i>Juncus tenuis</i>	Path Rush	5%	
<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia Wildrye	40%	<i>Poa palustris</i>	Fowl Bluegrass	25%	
<i>Euthamia graminifolia</i>	Grass Leaved Goldenrod	1%	<i>Scirpus atrovirens</i>	Dark-green Bulrush	5%	
<i>Monarda fistulosa</i> var. <i>fistulosa</i>	Wild Bergamot	1%	<i>Verbena hastata</i>	Blue Vervain	5%	
<i>Oenothera biennis</i>	Common Evening Primrose	25%				
<i>Rudbeckia hirta</i>	Black Eyed Susan	10%	Cover Crop for Seed Mixture			
<i>Solidago canadensis</i> var. <i>canadensis</i>	Canada Goldenrod	1%	Seed at a rate of 150g/100m2			
<i>Solidago juncea</i>	Early Goldenrod	1%	<i>Avena sativa</i>	Oats	40%	
<i>Solidago nemoralis</i> ssp. <i>Nemoralis</i>	Gray-stemmed Goldenrod	1%	<i>Hordeum vulgare</i>	Barley	45%	
<i>Symphotrichum novae-angliae</i>	New England Aster	1%				
<i>Verbena urticifolia</i>	White Vervain	1%				
Cover Crop for Seed Mixture						
<i>Avena sativa</i>	Oats	40%				
<i>Hordeum vulgare</i>	Barley	45%				



No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for 100% Schematic Design Review	2023-12-22
3	Issued for Site Plan Approval	2024-02-02
4	Issued for Class B Costing	2024-03-01
5	Issued for Review	2024-07-11
6	Issued for Building Permit	2024-09-06
7	100% Construction Documentation	2024-11-05
8	Issued for Tender	2024-11-15

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3359 Mississauga Road

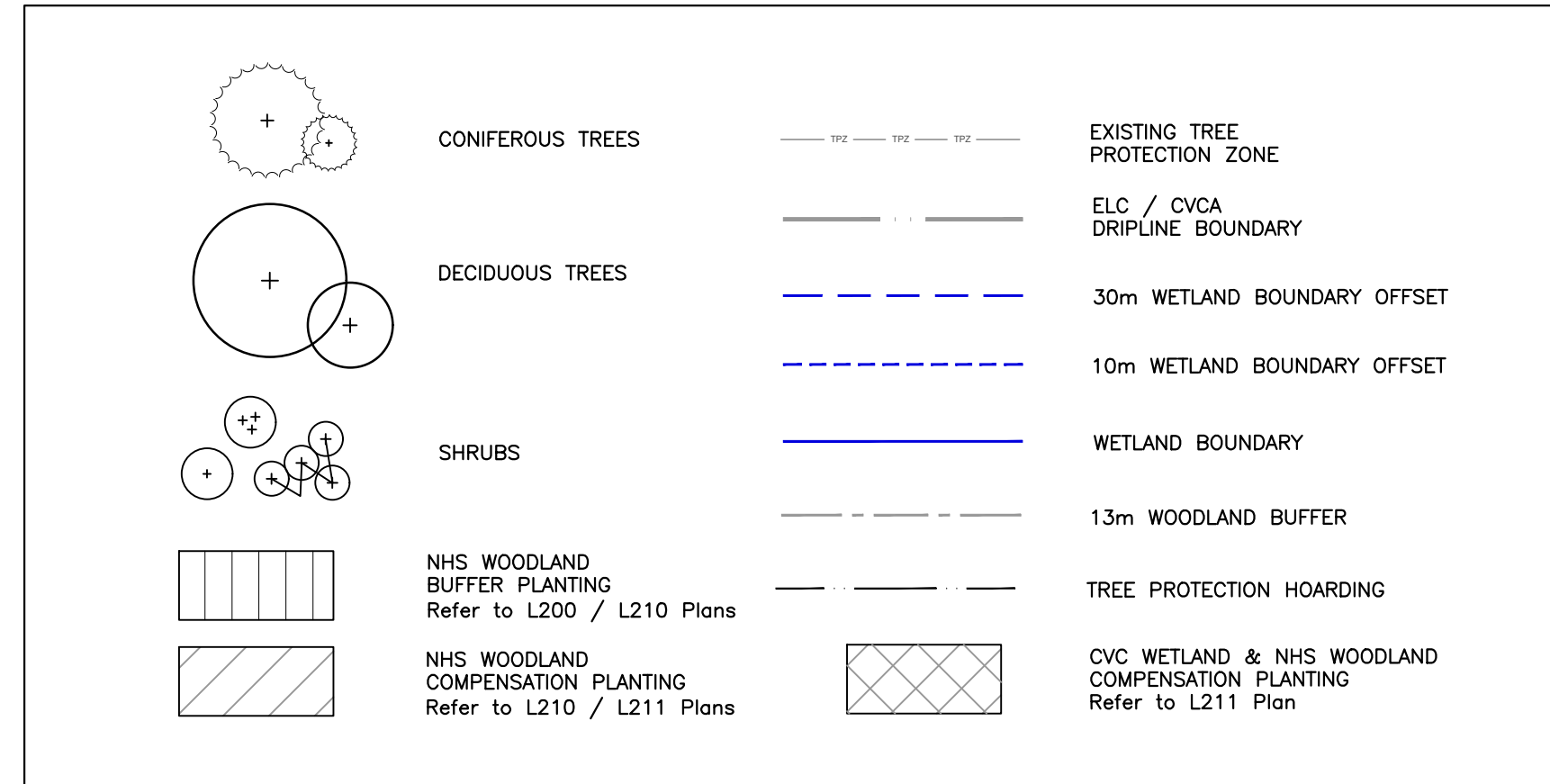
TITLE
SITE PLANTING PLAN



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SCALE	DATE	PROJECT NO.	DRAWN BY	CHECKED BY	SHEET NO.
1:200	November 2023	231533	JBKH	KHBF	L200

LEGEND



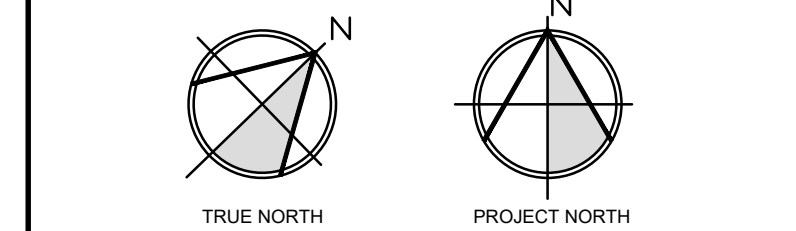
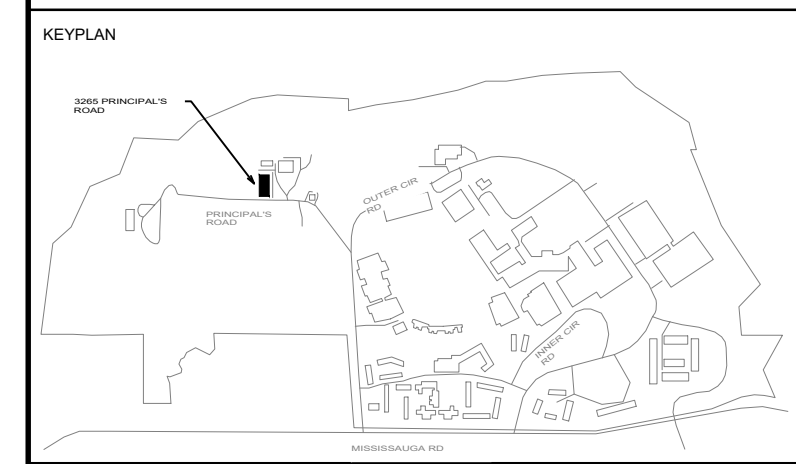
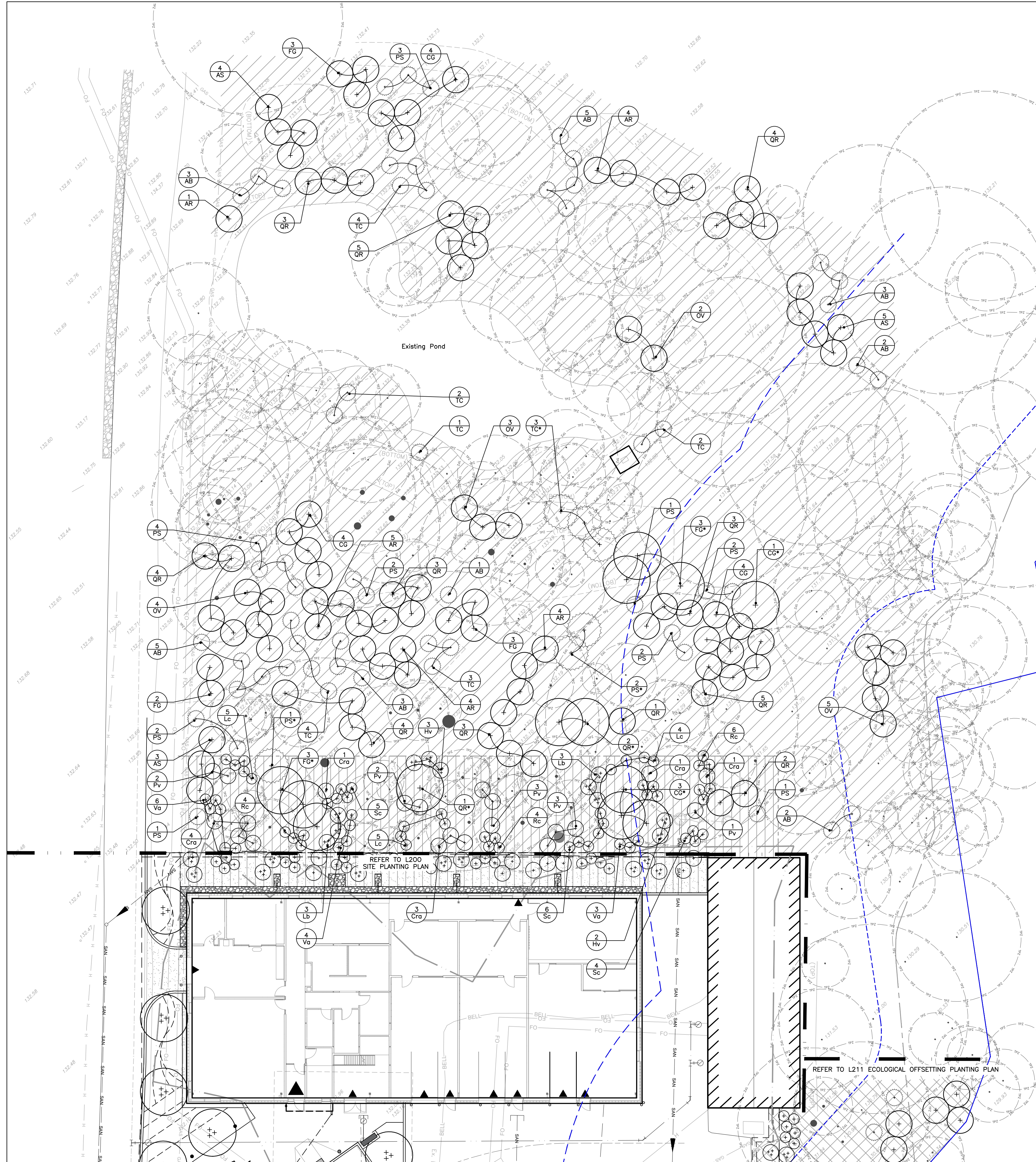
ECOLOGICAL OFFSETTING PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	CONDITION	COMMENTS
TREES						
AB	Abies balsamea	Balsam Fir	24	1.5m ht.	Branched whip	
AR	Acer rubrum	Red Maple	18	1.5m ht.	Branched whip	
AS	Acer saccharum	Sugar Maple	12	1.5m ht.	Branched whip	
CG	Carya glabra	Pignut Hickory	14	1.5m ht.	Branched whip	
CG*	Carya glabra	Pignut Hickory	4	60mm	BB	*Tree Removal Compensation
FG	Fagus grandifolia	American Beech	13	1.5m ht.	Branched whip	
FG*	Fagus grandifolia	American Beech	6	60mm	BB	*Tree Removal Compensation
OV	Ostrya virginiana	Ironwood	20	1.5m ht.	Branched whip	
PS	Pinus strobus	Eastern White Pine	21	1.5m ht.	Branched whip	
PS*	Pinus strobus	Eastern White Pine	3	1.8m ht.	WB	*Tree Removal Compensation
QR	Quercus rubra	Northern Red Oak	40	1.5m ht.	Branched whip	
QR*	Quercus rubra	Northern Red Oak	3	60mm	BB	*Tree Removal Compensation
TC	Tsuga canadensis	Eastern Hemlock	19	1.5m ht.	Branched whip	
TC*	Tsuga canadensis	Eastern Hemlock	3	1.8m ht.	WB	*Tree Removal Compensation
	Total		200			
SHRUBS						
Cra	Cornus racemosa	Gray Dogwood	10	125cm, 3 gal	Potted	
Hv	Hamamelis virginiana	Witchhazel	9	125cm, 3 gal	Potted	Clump
Lb	Lindera benzoin	Spicebush	6	125cm, 3 gal	Potted	Clump
Lc	Lonicera canadensis	American Fly Honeysuckle	14	60cm, 3 gal	Potted	
Pv	Prunus virginiana	Chokecherry	11	125cm, 3 gal	Potted	
Rc	Ribes cynosbati	Eastern Prickly Gooseberry	16	60cm, 3 gal	Potted	
Sc	Sambucus canadensis	American Black Elderberry	15	60cm, 3 gal	Potted	
Va	Viburnum acerifolium	Mapleleaf viburnum	19	60cm, 3 gal	Potted	
	Total		100			

ECOLOGICAL OFFSETTING NOTES:

- Field Adjustments may be required for all proposed plant material based on presence of existing vegetation to remain. Refer to Environmental Impact Study prepared by Sumac Environmental Consulting.
- Tree Planting to be minimum 2.5m o.c. spacing.
- Tall shrub planting to be minimum 1.5m o.c. spacing.
- Low shrub planting to be minimum 1.0m o.c. spacing.
- Bat boxes to be located on site by a qualified Biologist. Refer to sheet L211 Ecological Offsetting Planting Plan for details, and Environmental Impact Study prepared by Sumac Environmental Consulting for recommendations.
- All disturbed areas associated with planting operations within existing Natural Heritage System Boundary and Wetland Buffer Offset to be reinstated with 100mm of topsoil, CVC-1 native upland seed mix and cover crop.

Scientific Name	Common Name	%
SEED MIXTURE - CVC 1 - UPLAND MIX		
Anemone canadensis	Canada Anemone	1%
Asclepias syriaca	Common Milkweed	2%
Carex granularis	Limestone Meadow Sedge	15%
Elymus virginicus var. virginicus	Virginia Wildrye	40%
Euthamia graminifolia	Grass Leaved Goldenrod	1%
Monarda fistulosa var. fistulosa	Wild Bergamot	1%
Oenothera biennis	Common Evening Primrose	25%
Rudbeckia hirta	Black Eyed Susan	10%
Solidago canadensis var. canadensis	Canada Goldenrod	1%
Solidago juncea	Early Goldenrod	1%
Solidago nemoralis ssp. Nemoralis	Gray-stemmed Goldenrod	1%
Symphoricarum novae-angliae	New England Aster	1%
Verbena urticifolia	White Vervain	1%
Cover Crop for Seed Mixture		
Avena sativa	Oats	40%
Elymus canadensis	Canada Wildrye	15%
Hordeum vulgare	Barley	45%



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PROJECT
Pre-Engineered Building
3359 Mississauga Road

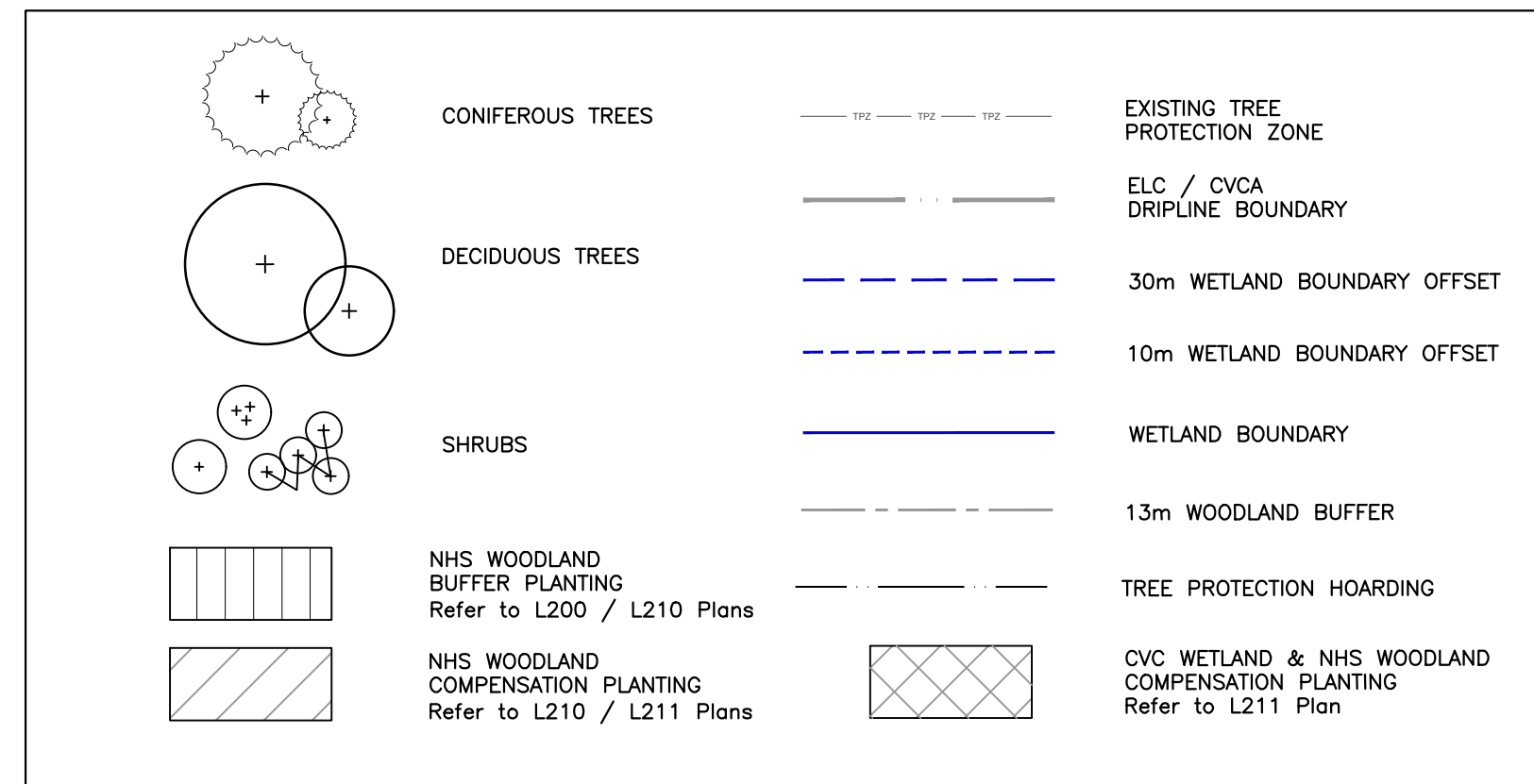
TITLE
ECOLOGICAL OFFSETTING PLANTING PLAN



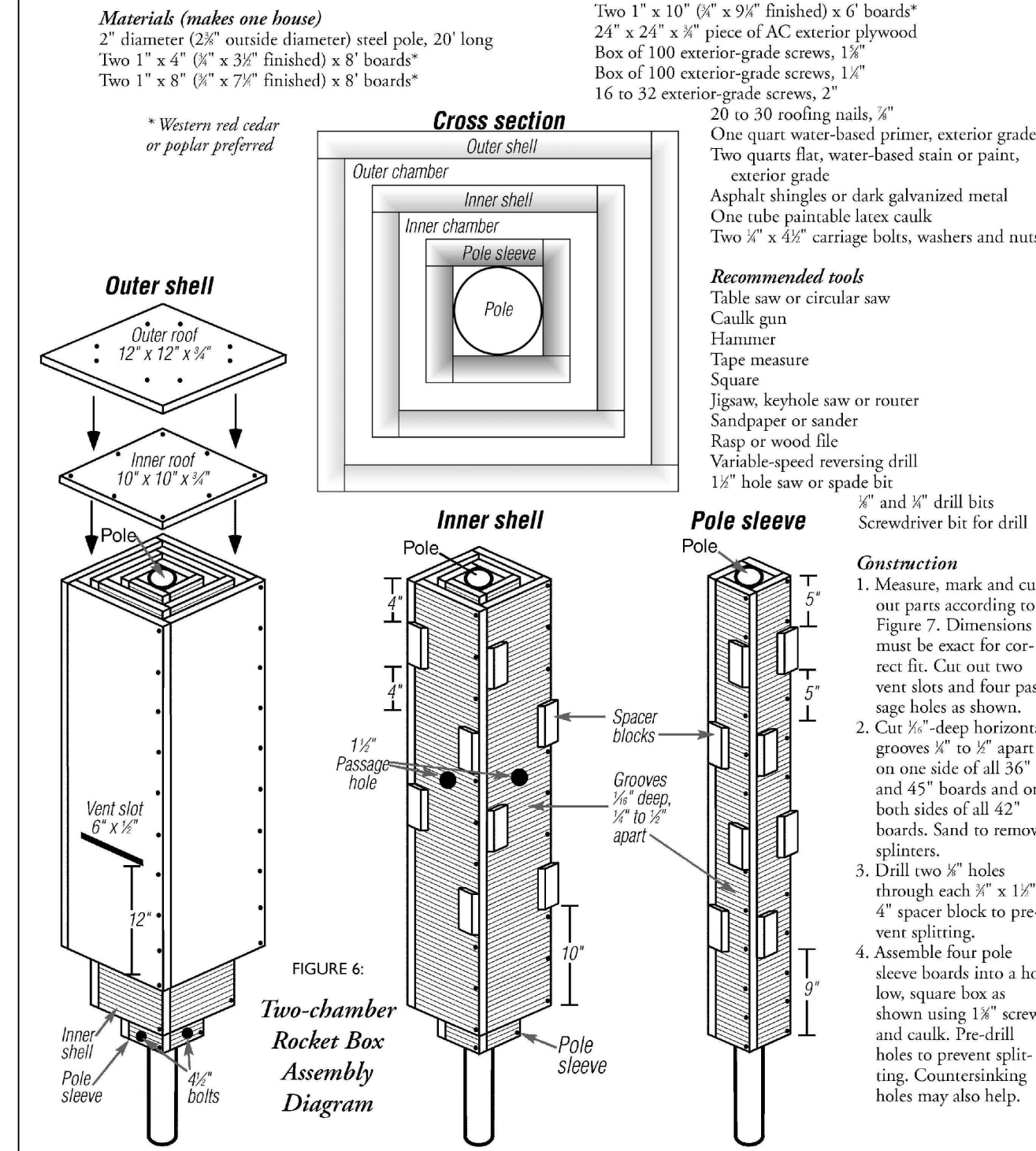
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SCALE	DATE	PROJECT NO.	DRAWN BY	CHECKED BY	SHEET NO.
1:200	November 2023	231533	JBNH	KHBF	L210

LEGEND

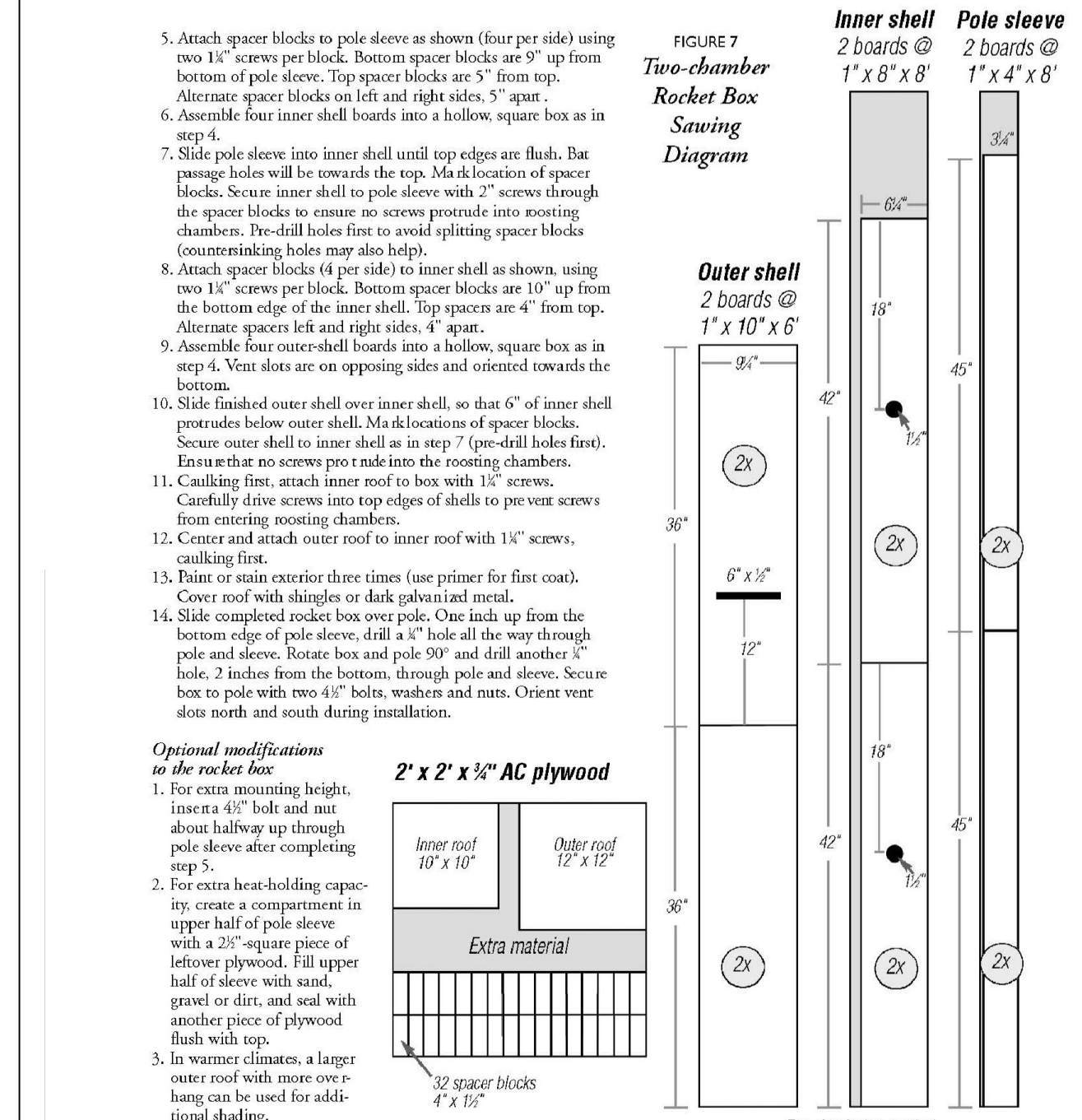


Two-chamber Rocket Box

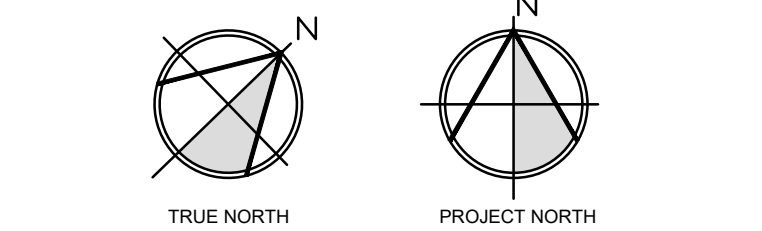
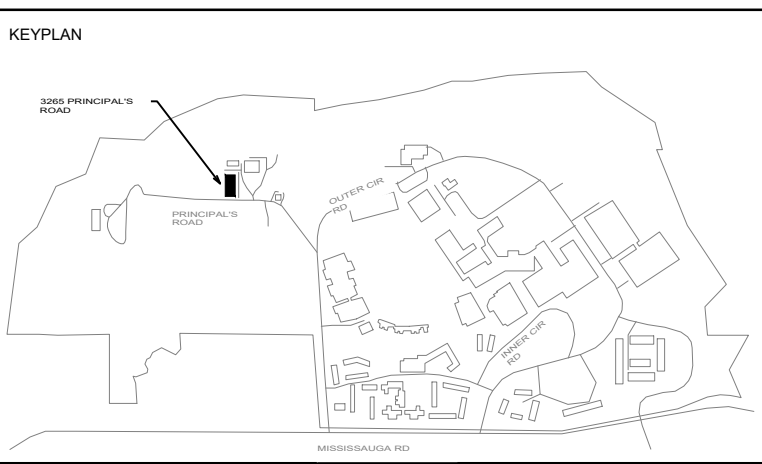
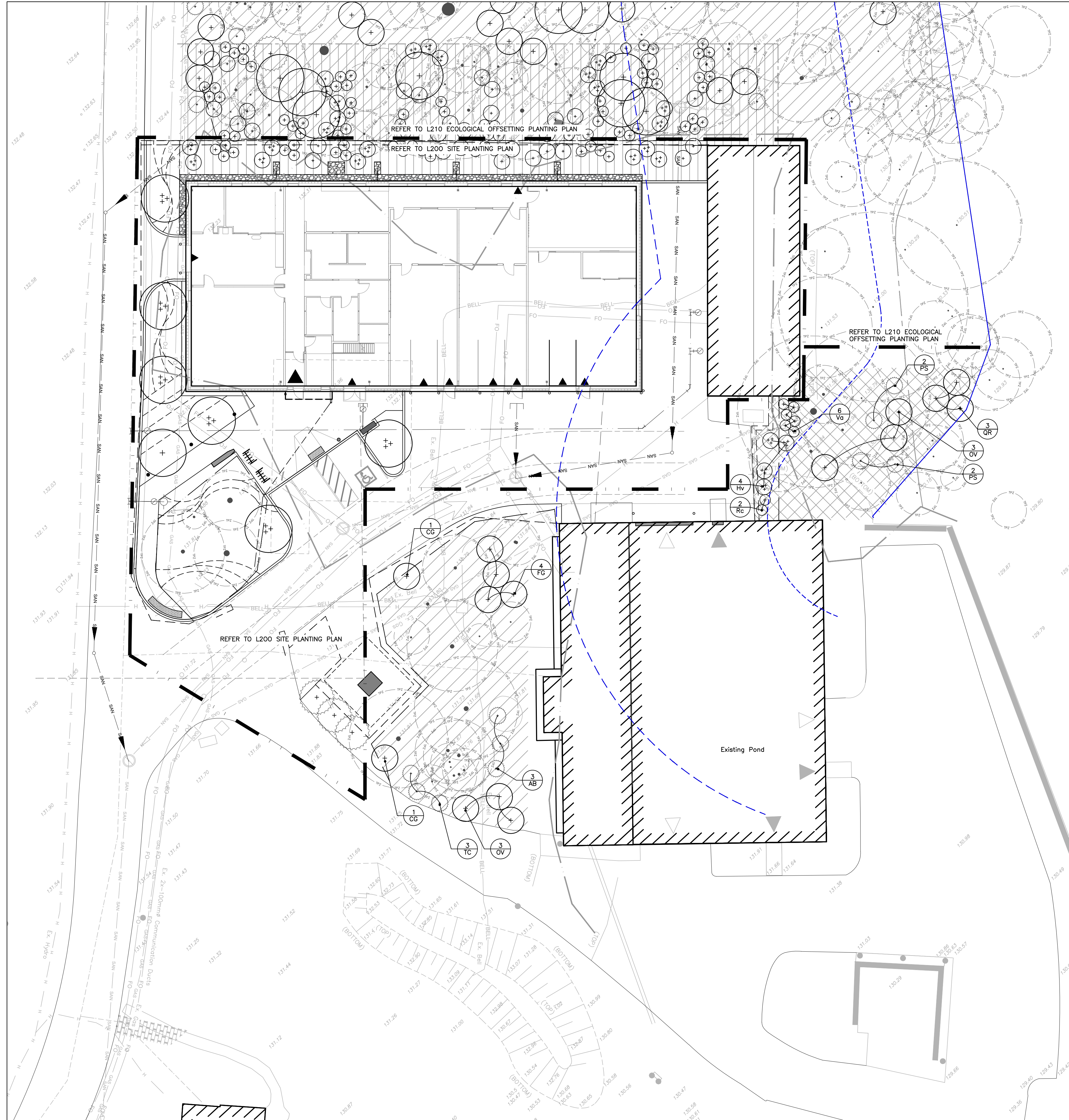


BAT BOX NTS 1

© Bat Conservation International, www.batcon.org
 Adapted from The Bat House Builder's Handbook



BAT BOX NTS 2



No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for 100% Schematic Design Review	2023-12-22
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4	Issued for Class B Costing	2024-03-01
5	Issued for Building Permit	2024-07-11
6	Issued for Building Permit	2024-09-06
7	100% Construction Documentation	2024-11-05
8	Issued for Tender	2024-11-15

DISCLAIMER:
 NOT FOR CONSTRUCTION



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 University of Toronto Mississauga

PROJECT
 Pre-Engineered Building
 3359 Mississauga Road

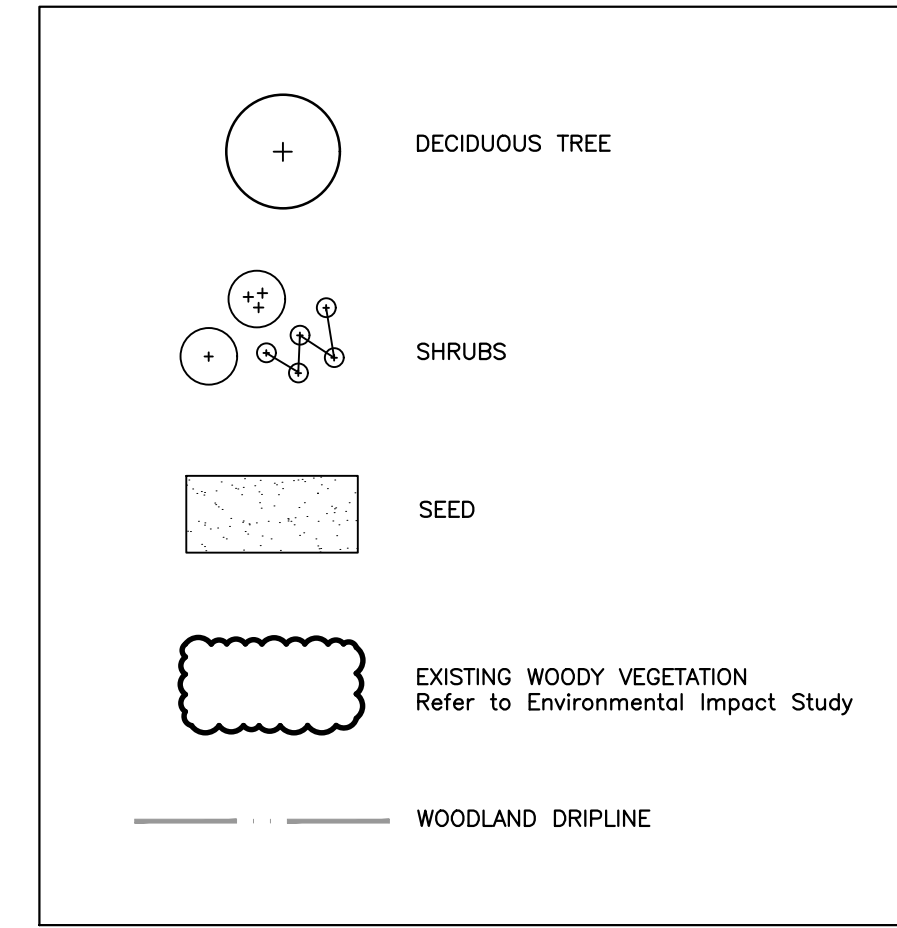
TITLE
 ECOLOGICAL OFFSETTING PLANTING PLAN



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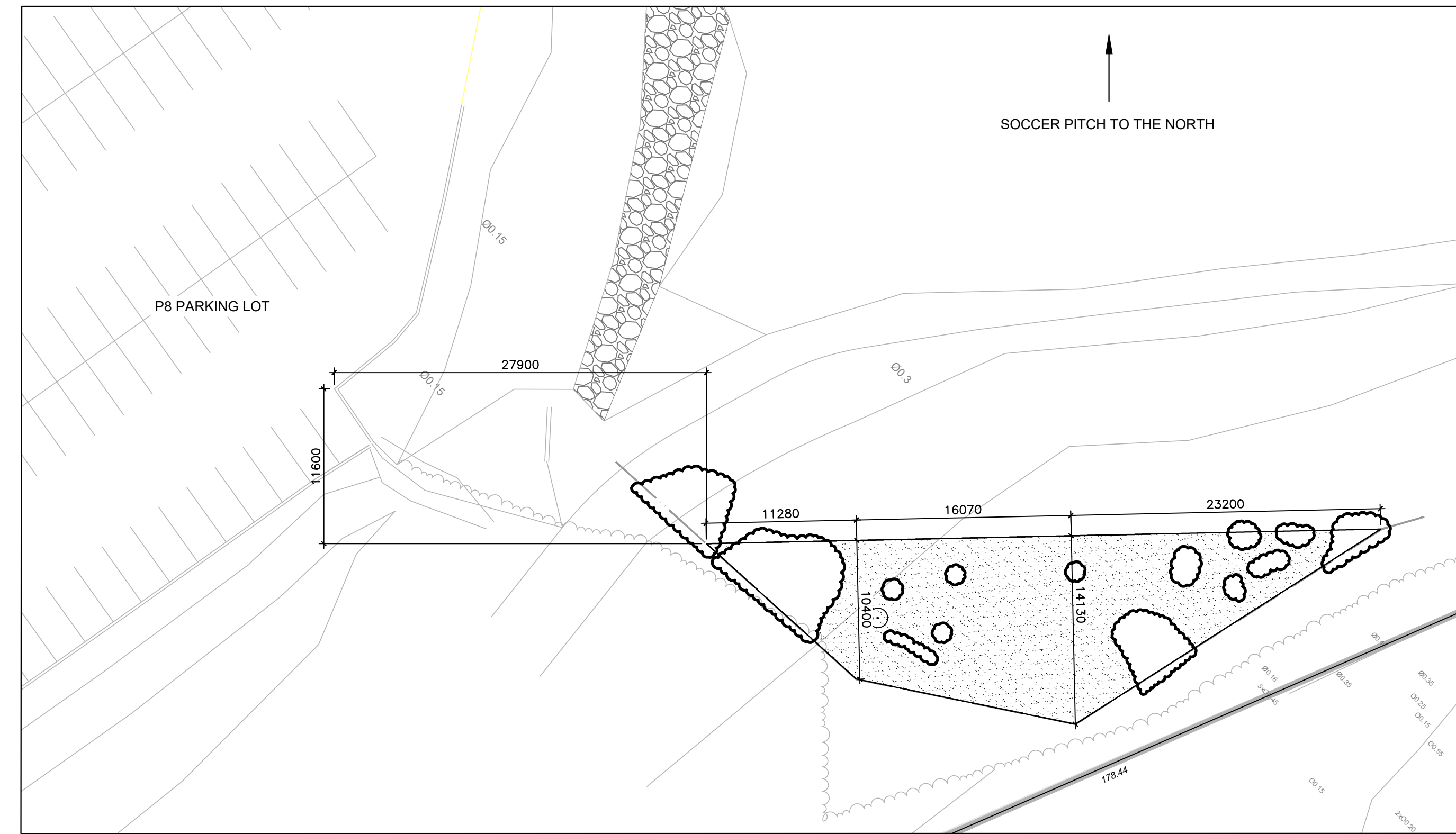
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DATE: November 2023	
PROJECT NO.: 231533	L211
DRAWN BY: JBKH	
CHECKED BY: KWHF	

LEGEND



PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	CONDITION	COMMENTS
TREES						
AS	Acer saccharum	Sugar Maple	7	60mm	BB	
CO	Carya ovata	Shagbark Hickory	7	60mm	BB	
FG	Fagus grandifolia	American Beech	7	60mm	BB	
OV	Ostrya virginiana	Ironwood	7	60mm	BB	
PT	Carpinus caroliniana	Musclemwood	7	60mm	BB	
QA	Quercus alba	White Oak	9	60mm	BB	
		Total	44			
TALL SHRUBS						
Aa	Amelanchier arborea	Common serviceberry	20	125cm, 3 gal.	Potted	Clump
Ca	Cornus alternifolia	Alternate Leaved Dogwood	20	125cm, 3 gal.	Potted	
Cra	Cornus racemosa	Gray Dogwood	18	125cm, 3 gal.	Potted	Clump
Hv	Hamamelis virginiana	Witchhazel	22	125cm, 3 gal.	Potted	
Pv	Prunus virginiana	Chokecherry	20	125cm, 3 gal.	Potted	
		Total	100			
LOW SHRUBS						
Cr	Cornus rugosa	Round-Leaved Dogwood	57	60cm, 3 gal	Potted	
Cor	Corylus cornuta	Beaked Hazelnut	68	60cm, 3 gal	Potted	
Lc	Lonicera canadensis	American Fly Honeysuckle	42	60cm, 3 gal	Potted	
Rc	Ribes cynosbati	Eastern Prickly Gooseberry	52	60cm, 3 gal	Potted	
Ro	Rubus odoratus	Flowering raspberry	68	60cm, 3 gal	Potted	
Sc	Sambucus canadensis	Common Elderberry	53	60cm, 3 gal	Potted	
Va	Viburnum acerifolium	Mapleleaf viburnum	59	60cm, 3 gal	Potted	
		Total	399			

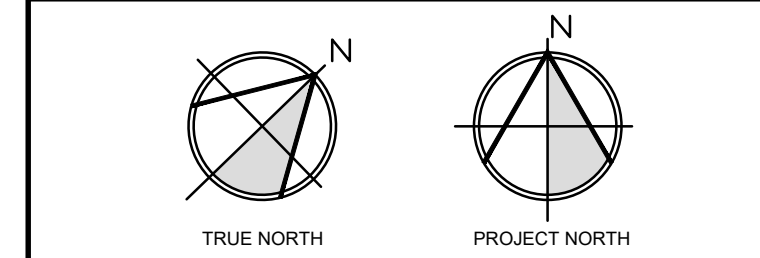
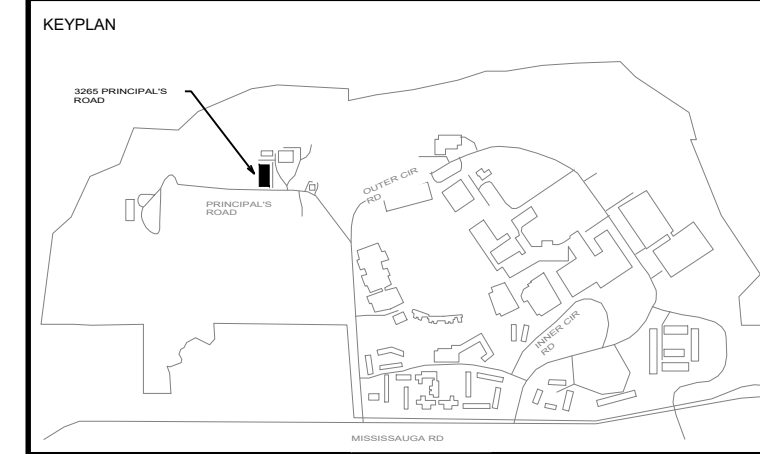
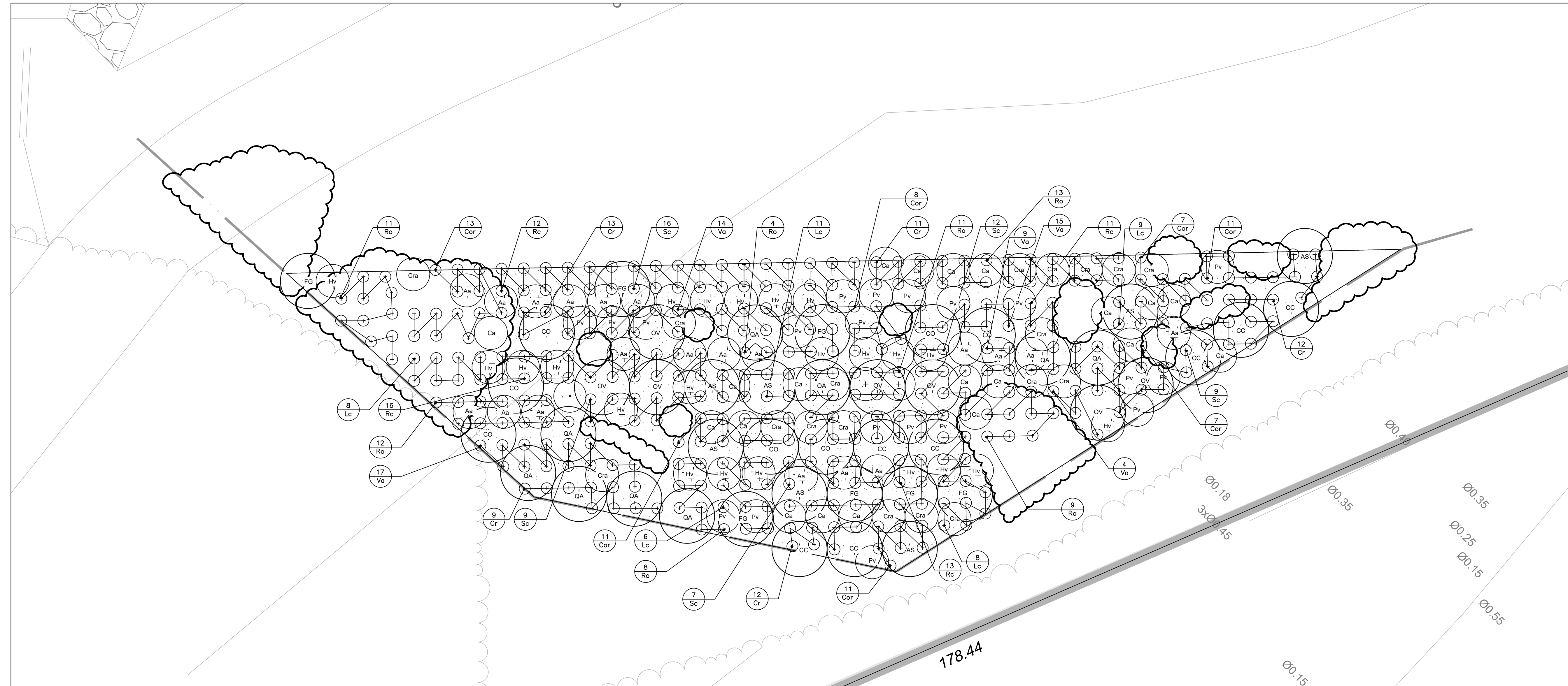


LAND-BASED OFFSETTING LAYOUT 1:300

LAND-BASED OFFSETTING NOTES:

- Field adjustments may be required for all proposed plant material based on presence of existing vegetation to remain. Refer to Environmental Impact Study prepared by Sumac Environmental Consulting.
- Total Land-Based Offsetting Area to be 422 sq.m.
- Tree Planting to be minimum 2.5m o.c. spacing.
- Tall shrub planting to be minimum 1.5m o.c. spacing and low shrub planting to be minimum 1.0m o.c. spacing.

Scientific Name	Common Name	Quantity	%
SEED MIXTURE - CVC 1 - UPLAND MIX			
Seed at a rate of 250g/90m2			
Anemone canadensis	Canada Anemone	1%	
Asclepias syriaca	Common Milkweed	2%	
Carex granularis	Limestone Meadow Sedge	15%	
Elymus virginicus var. virginicus	Virginia Wildrye	40%	
Euthamia graminifolia	Grass Leaved Goldenrod	1%	
Monarda fistulosa var. fistulosa	Wild Bergamot	1%	
Oenothera biennis	Common Evening Primrose	25%	
Rudbeckia hirta	Black Eyed Susan	1%	
Solidago canadensis var. canadensis	Canada Goldenrod	1%	
Solidago juncea	Early Goldenrod	1%	
Solidago nemoralis ssp. Nemoralis	Gray-stemmed Goldenrod	1%	
Symphoricarum novae-angliae	New England Aster	1%	
Verbena urticifolia	White Vervain	1%	
Cover Crop for Seed Mixture			
Seed at a rate of 150g/100m2			
Avena sativa	Oats	40%	
Elymus canadensis	Canada Wildrye	15%	
Hordeum vulgare	Barley	45%	



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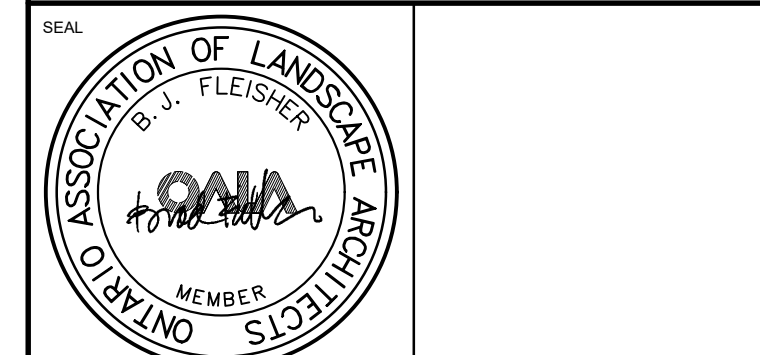
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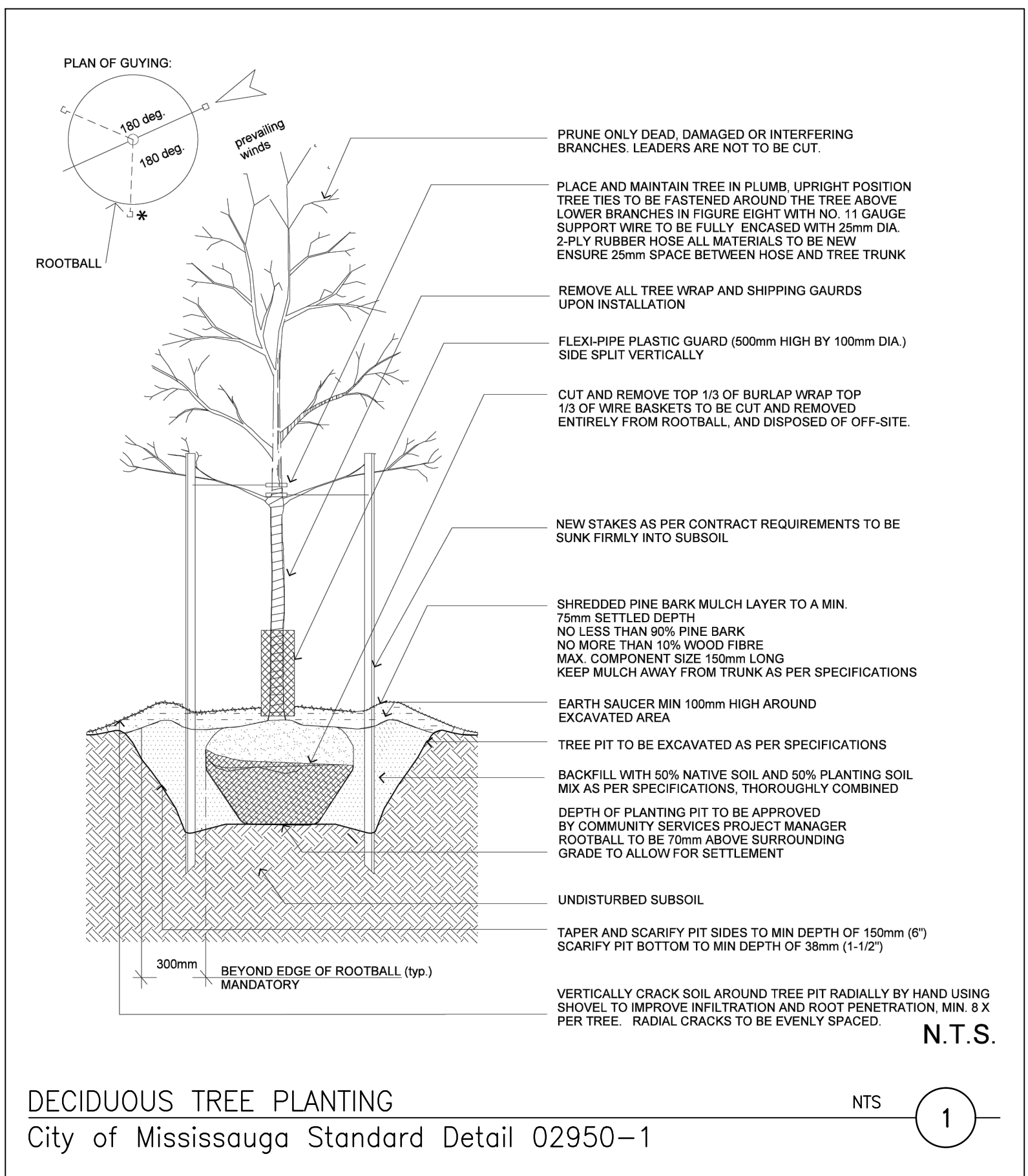
PROJECT
Pre-Engineered Building
3359 Mississauga Road

TITLE
LAND-BASED OFFSETTING PLANTING PLAN

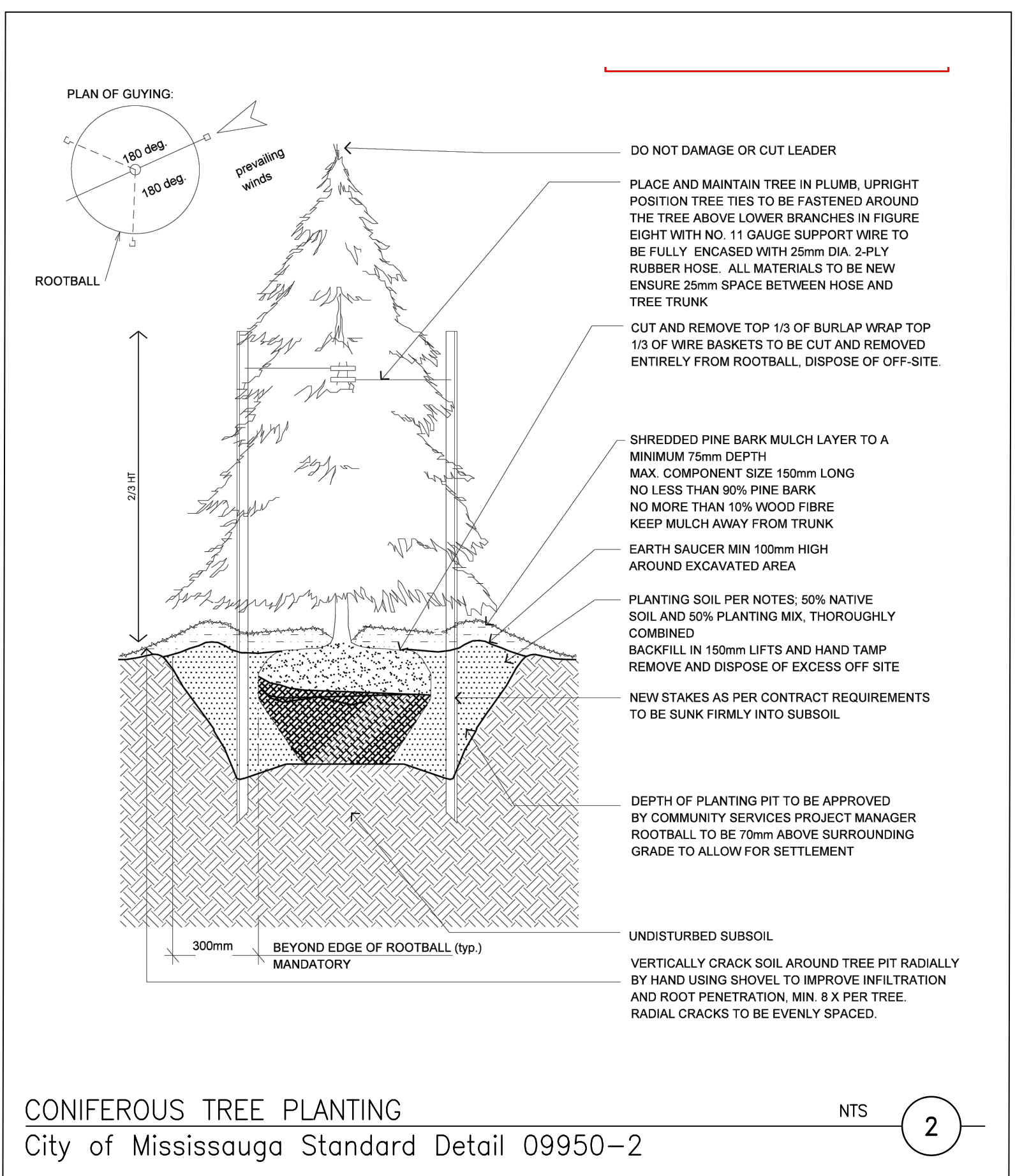


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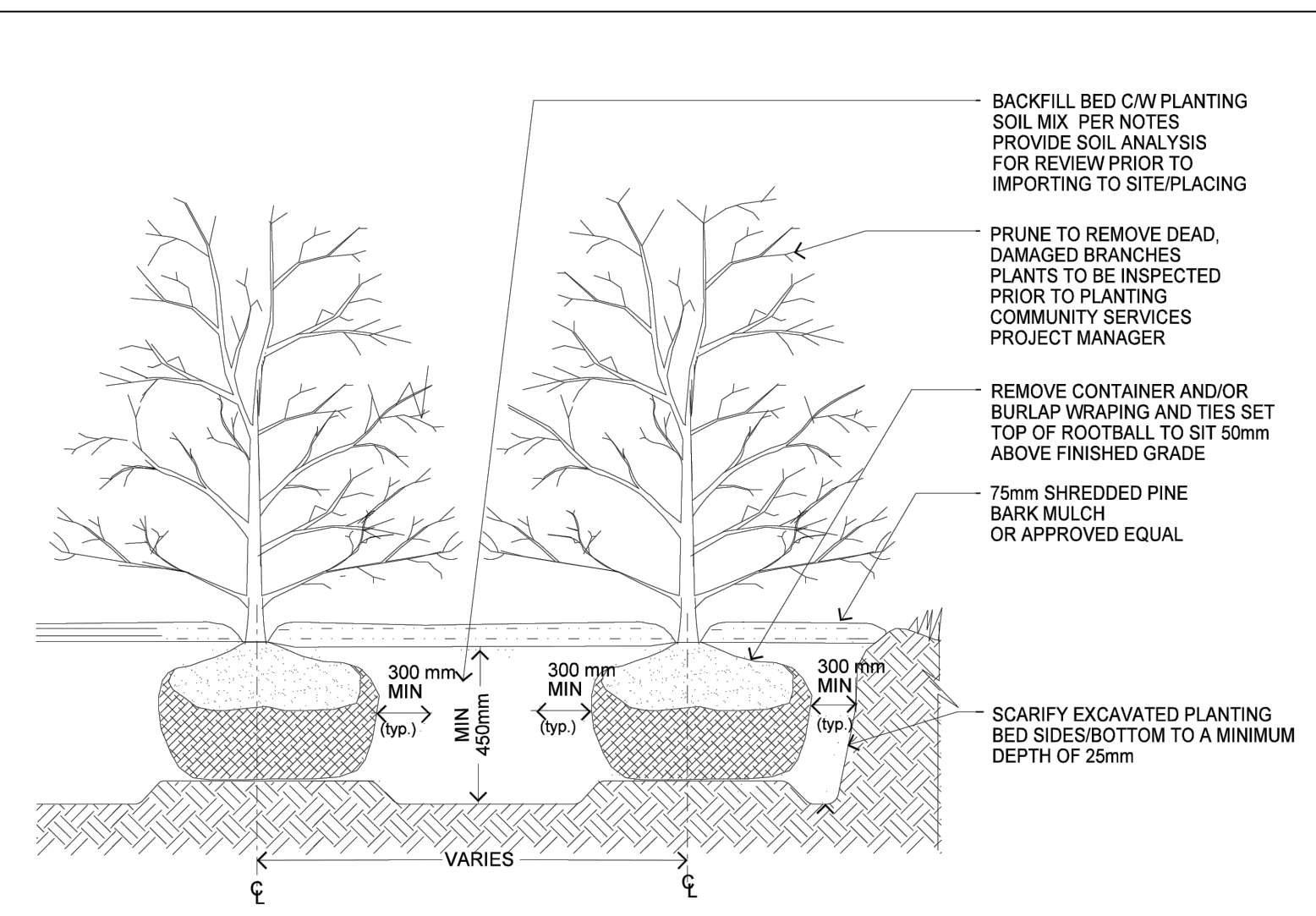
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DATE: November 2023	L220
PROJECT NO.: 231533	
DRAWN BY: JBKH	
CHECKED BY: KWB	



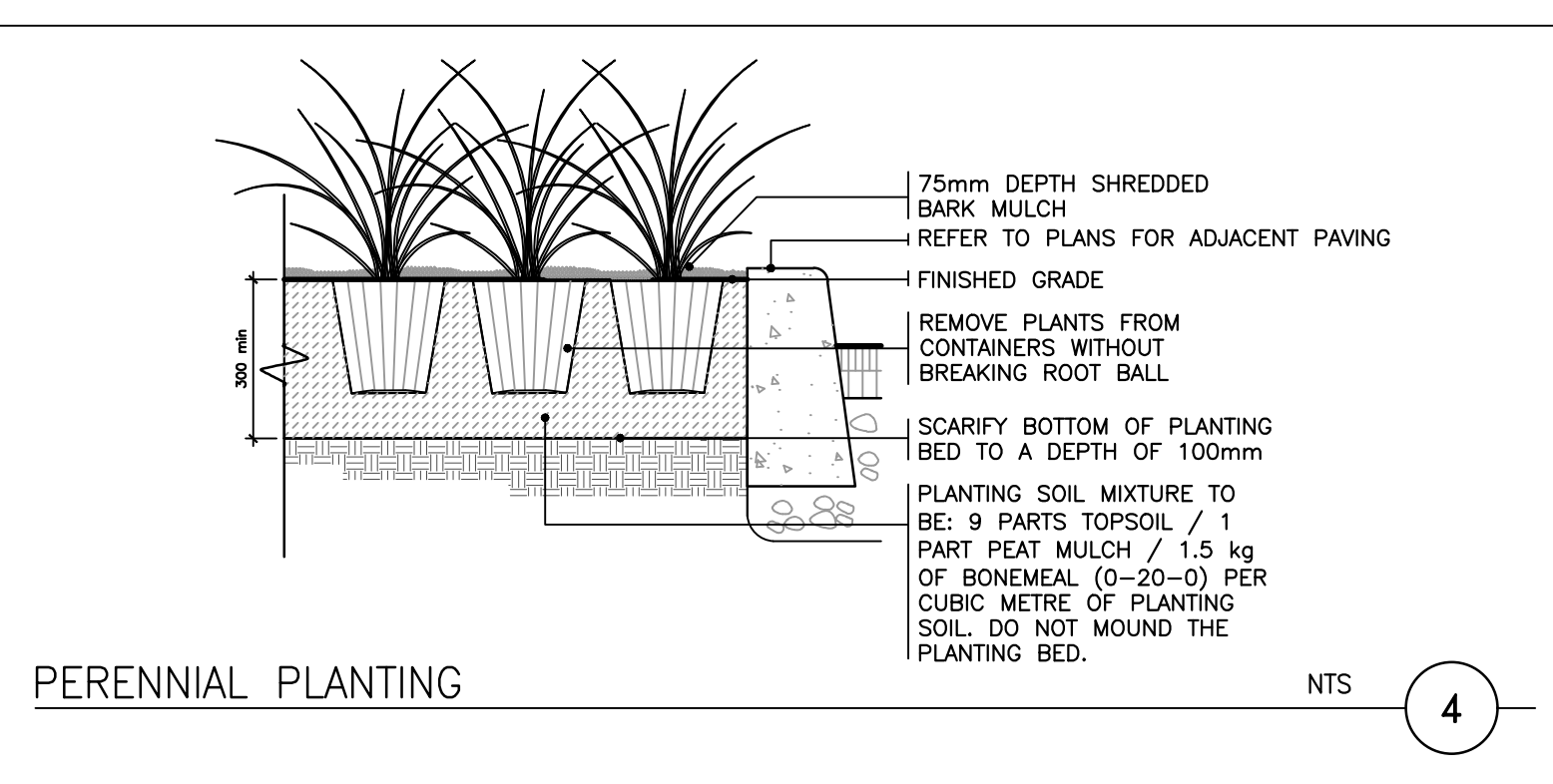
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City of Mississauga Standard Detail 02950-1



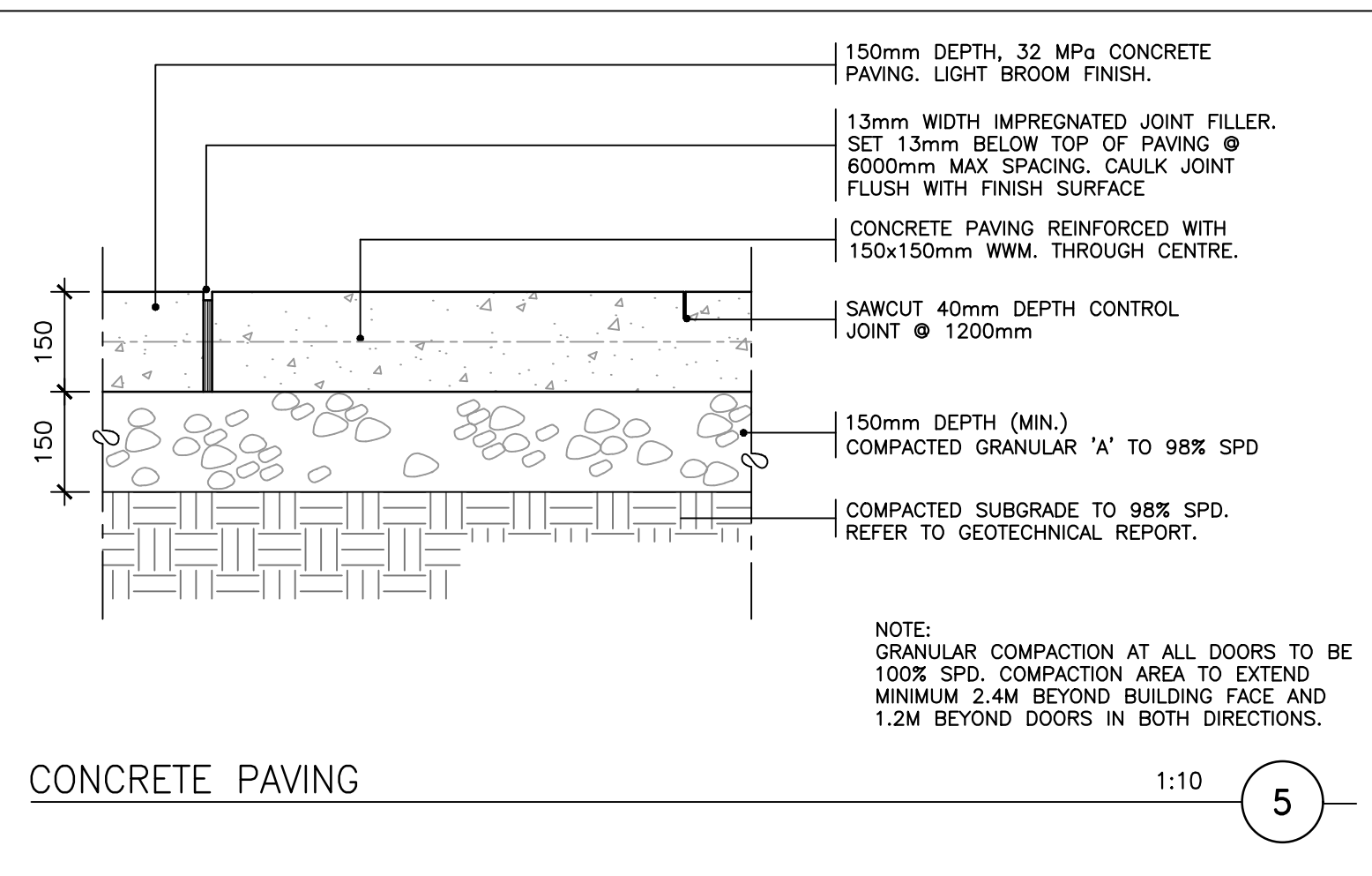
CONIFEROUS TREE PLANTING
City of Mississauga Standard Detail 09950-2



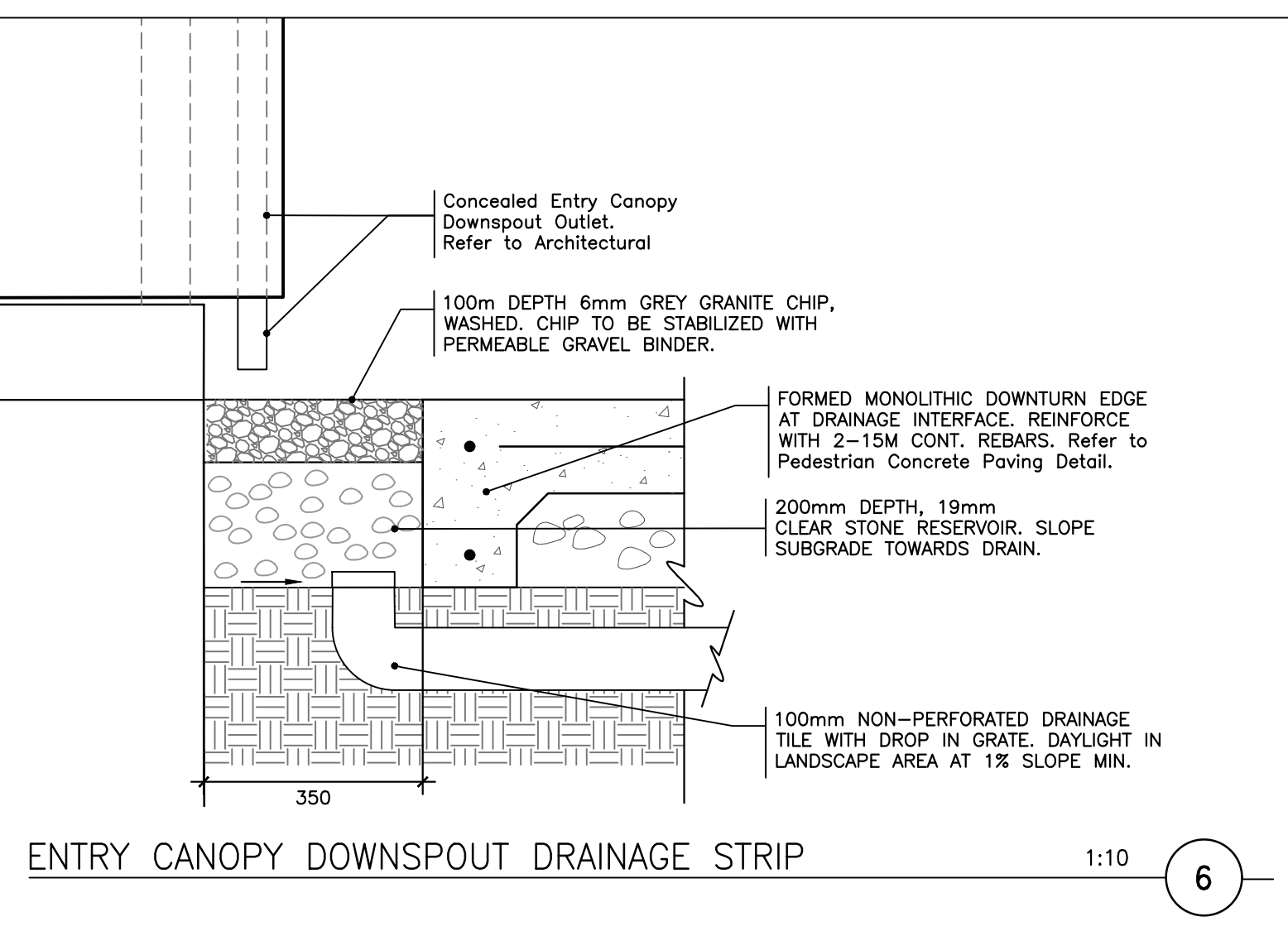
SHRUB PLANTING
City of Mississauga Standard Detail 02950-6



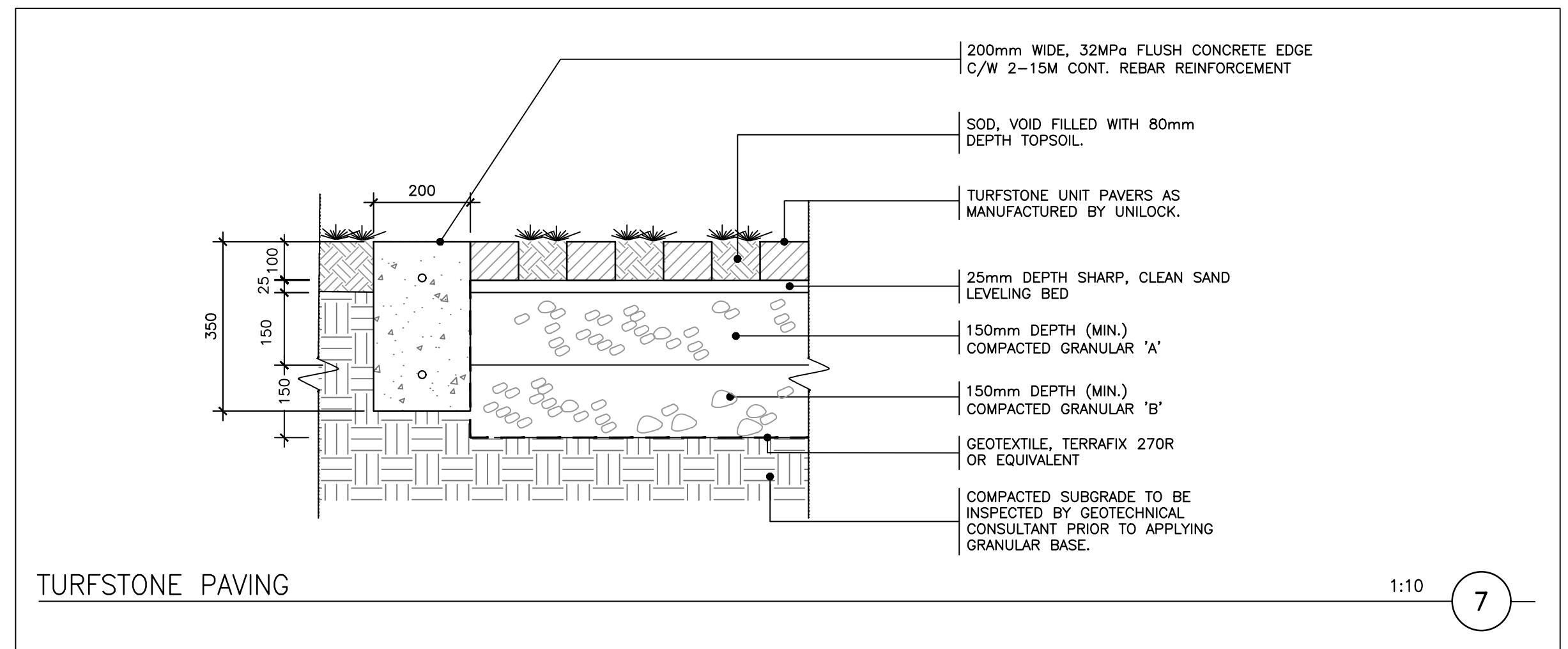
PERENNIAL PLANTING



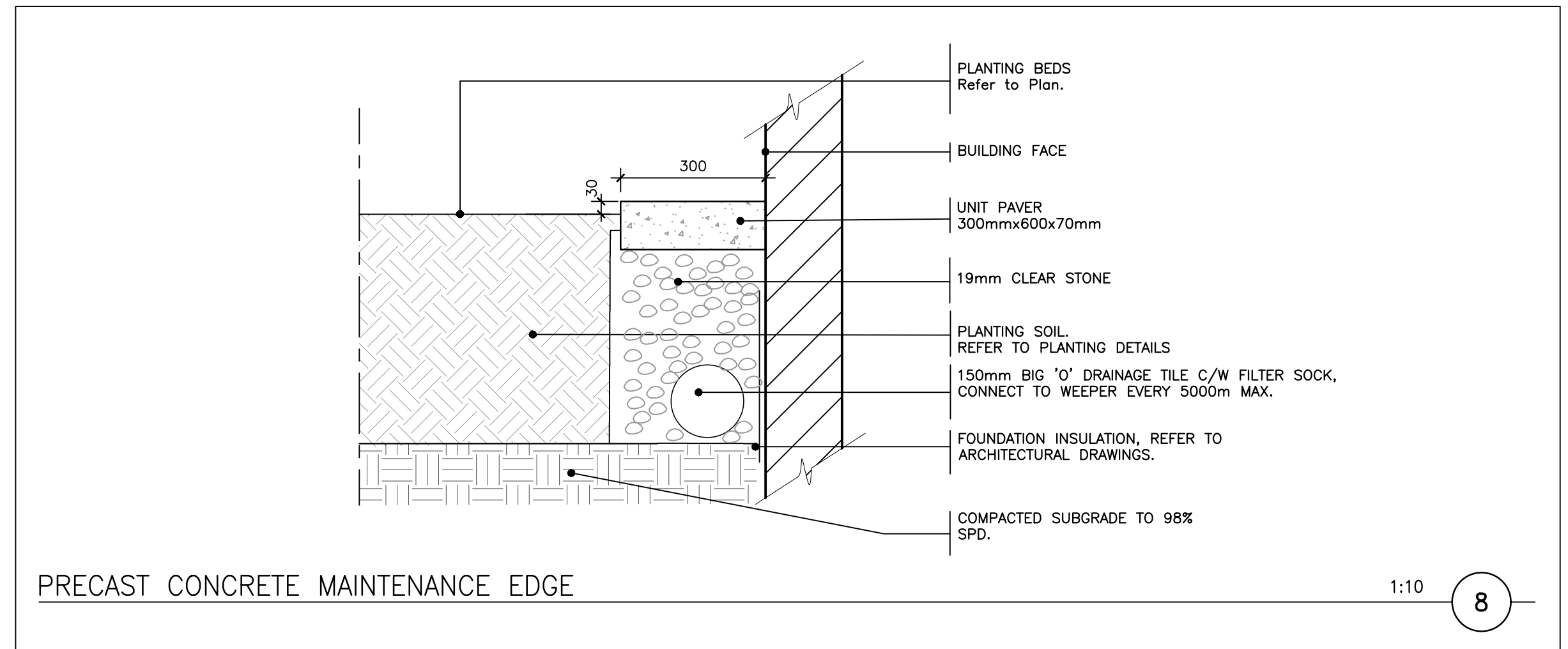
CONCRETE PAVING



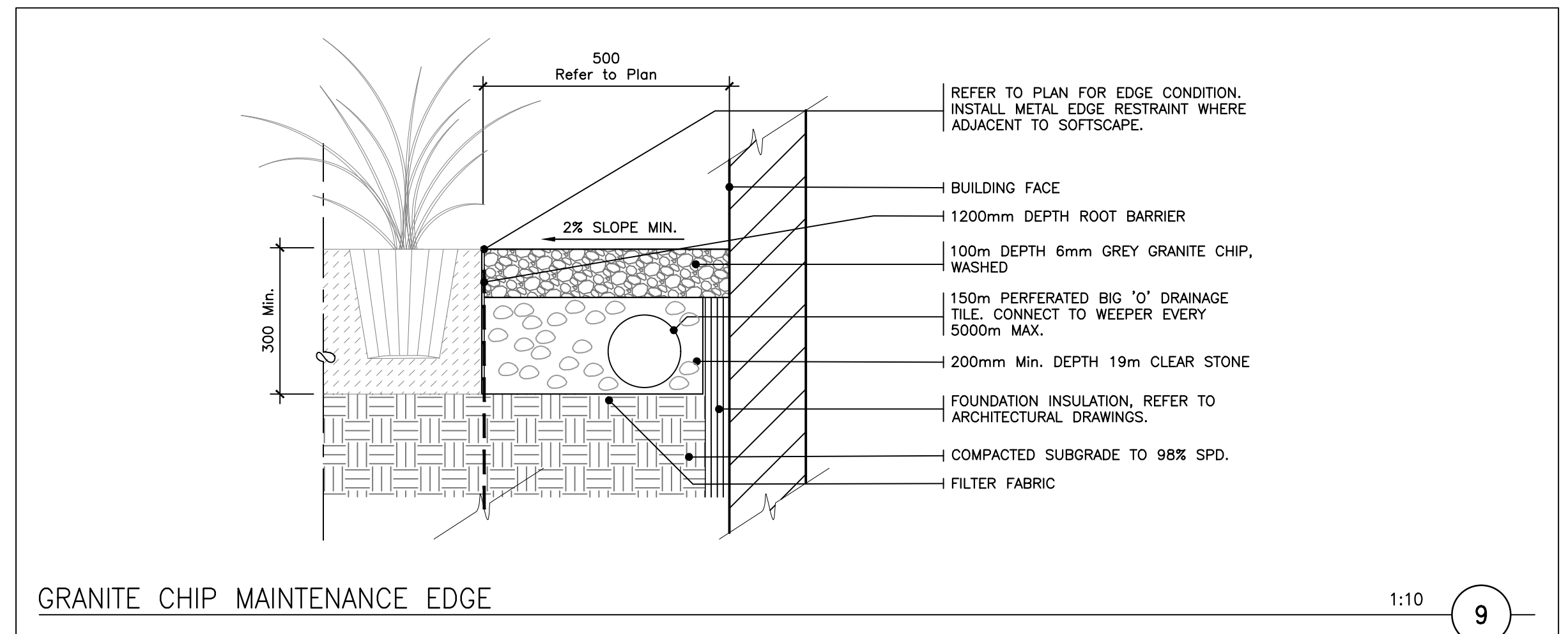
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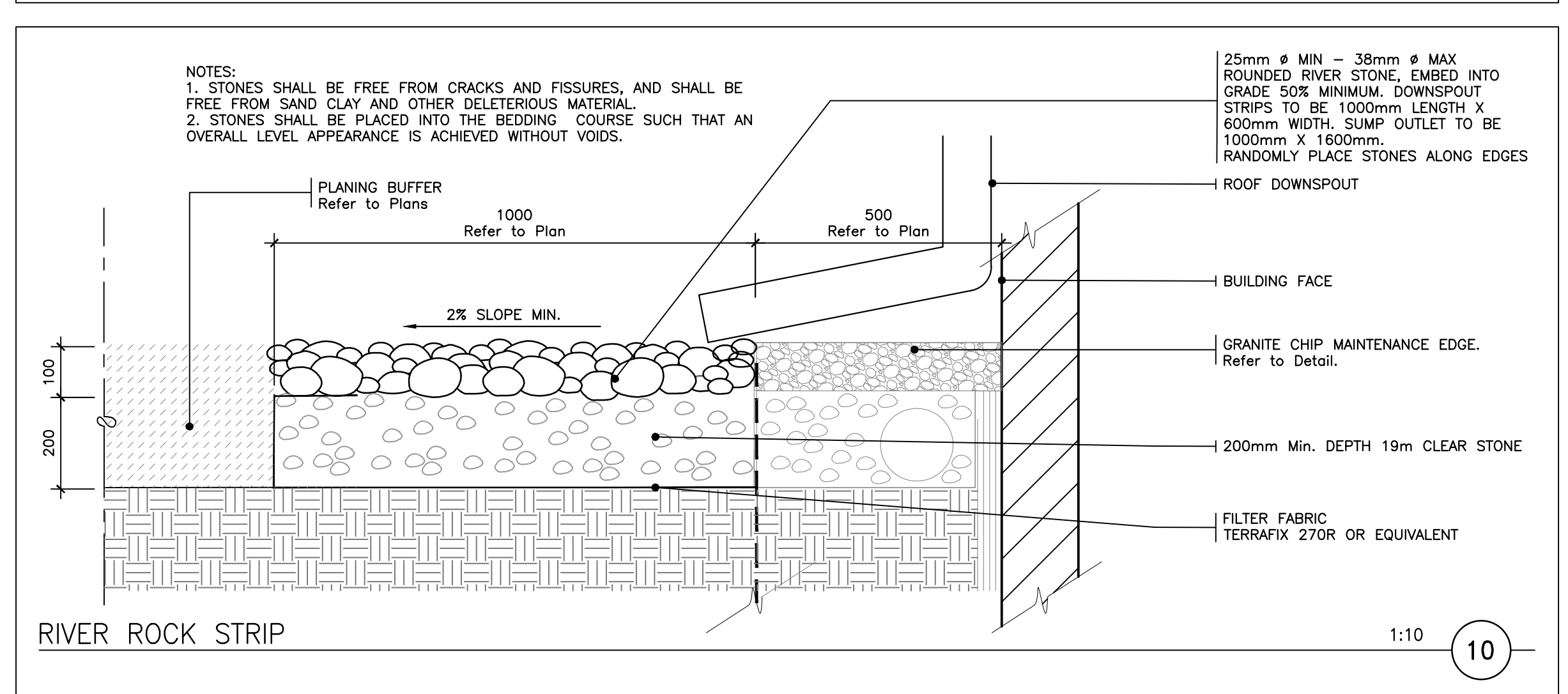
TURFSTONE PAVING



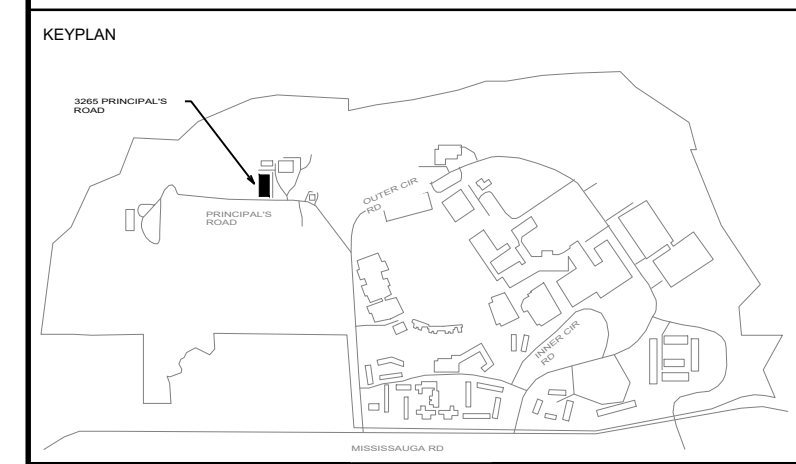
PRECAST CONCRETE MAINTENANCE EDGE



GRANITE CHIP MAINTENANCE EDGE



RIVER ROCK STRIP



TRUE NORTH PROJECT NORTH

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Pre-Engineered Building
3359 Mississauga Road

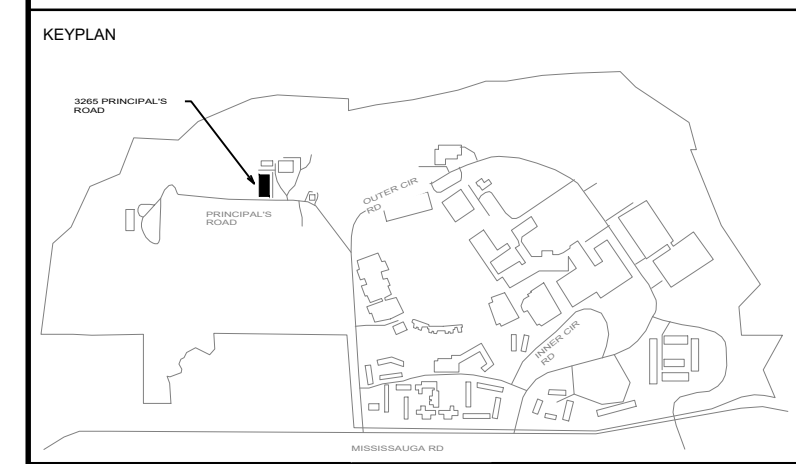
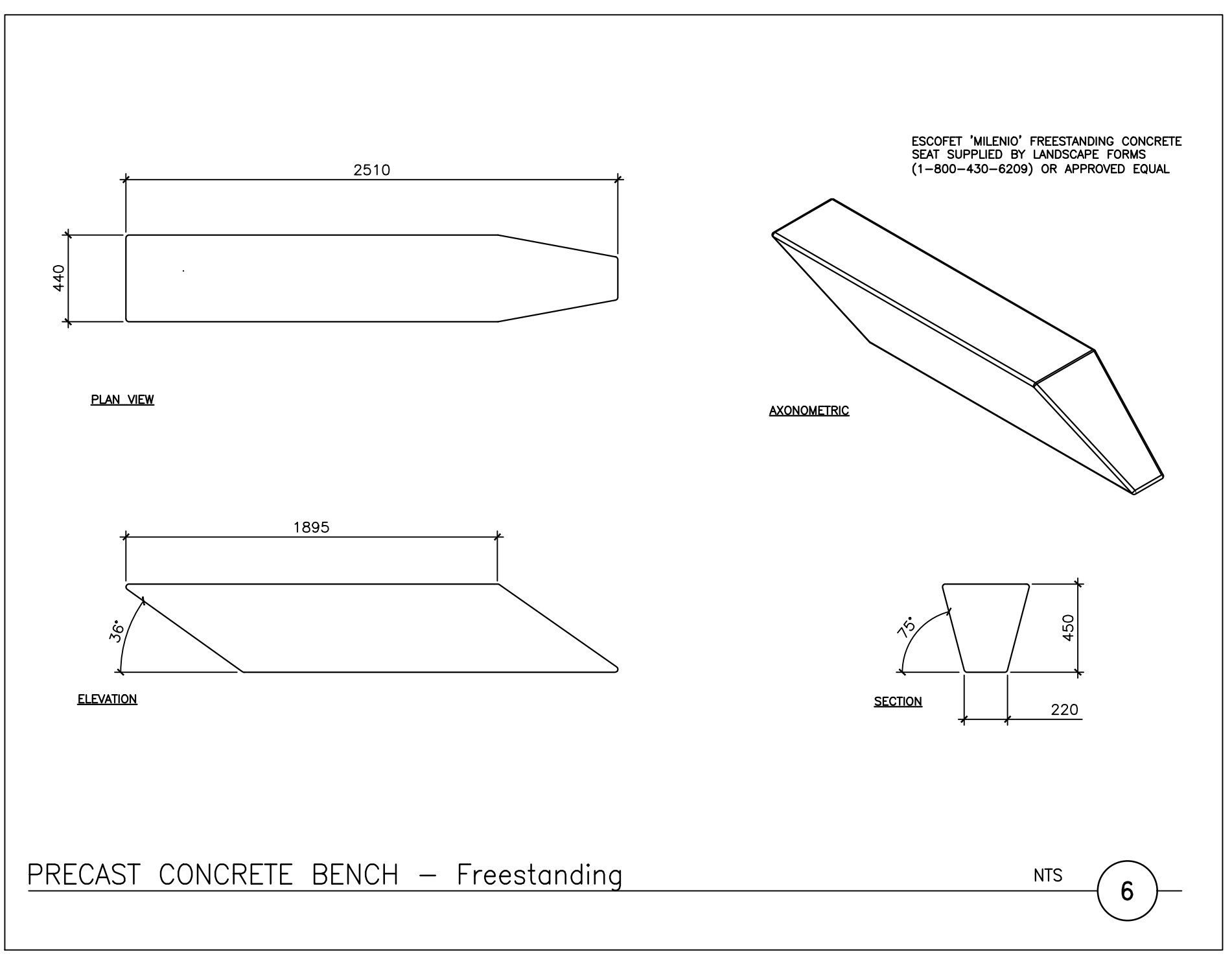
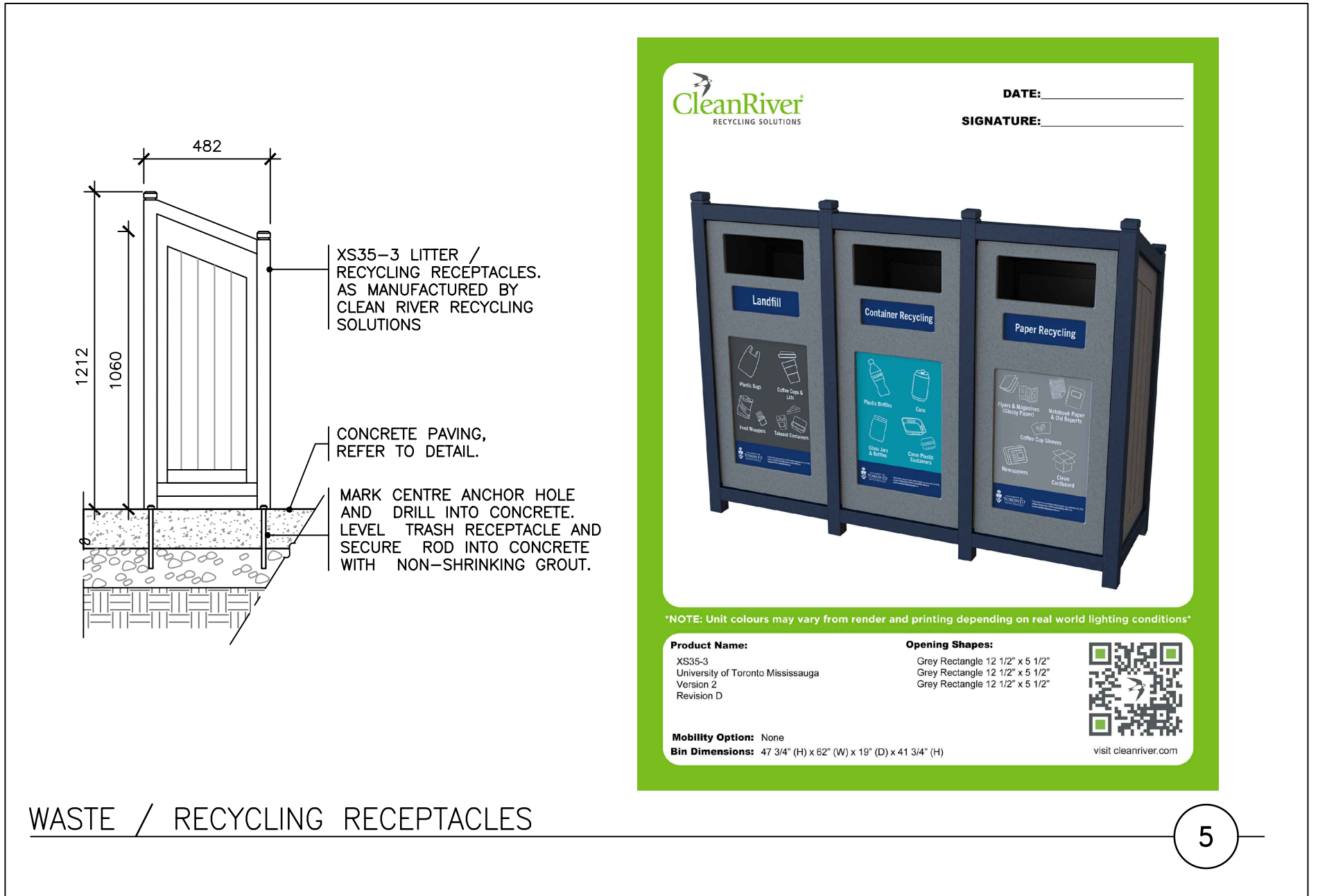
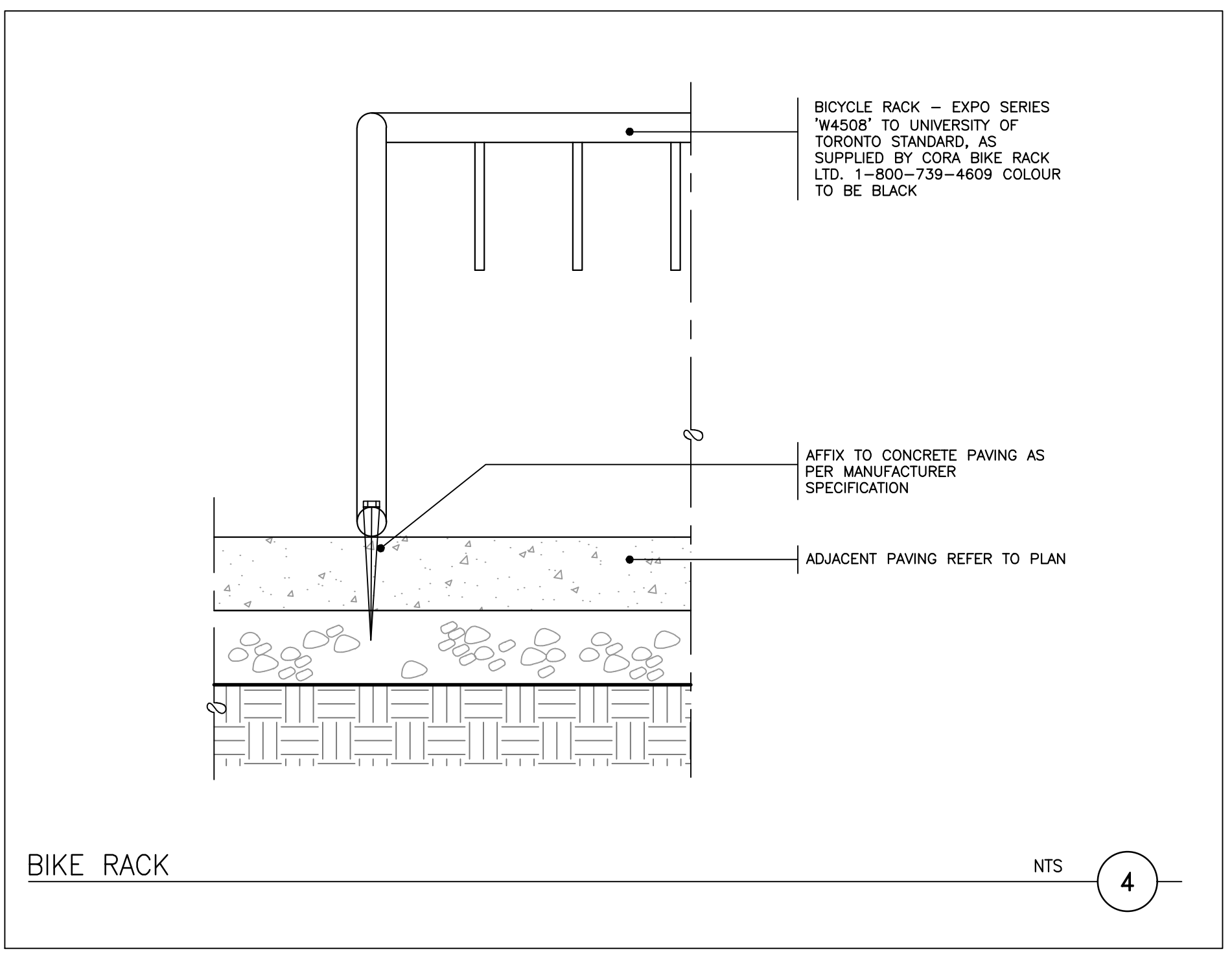
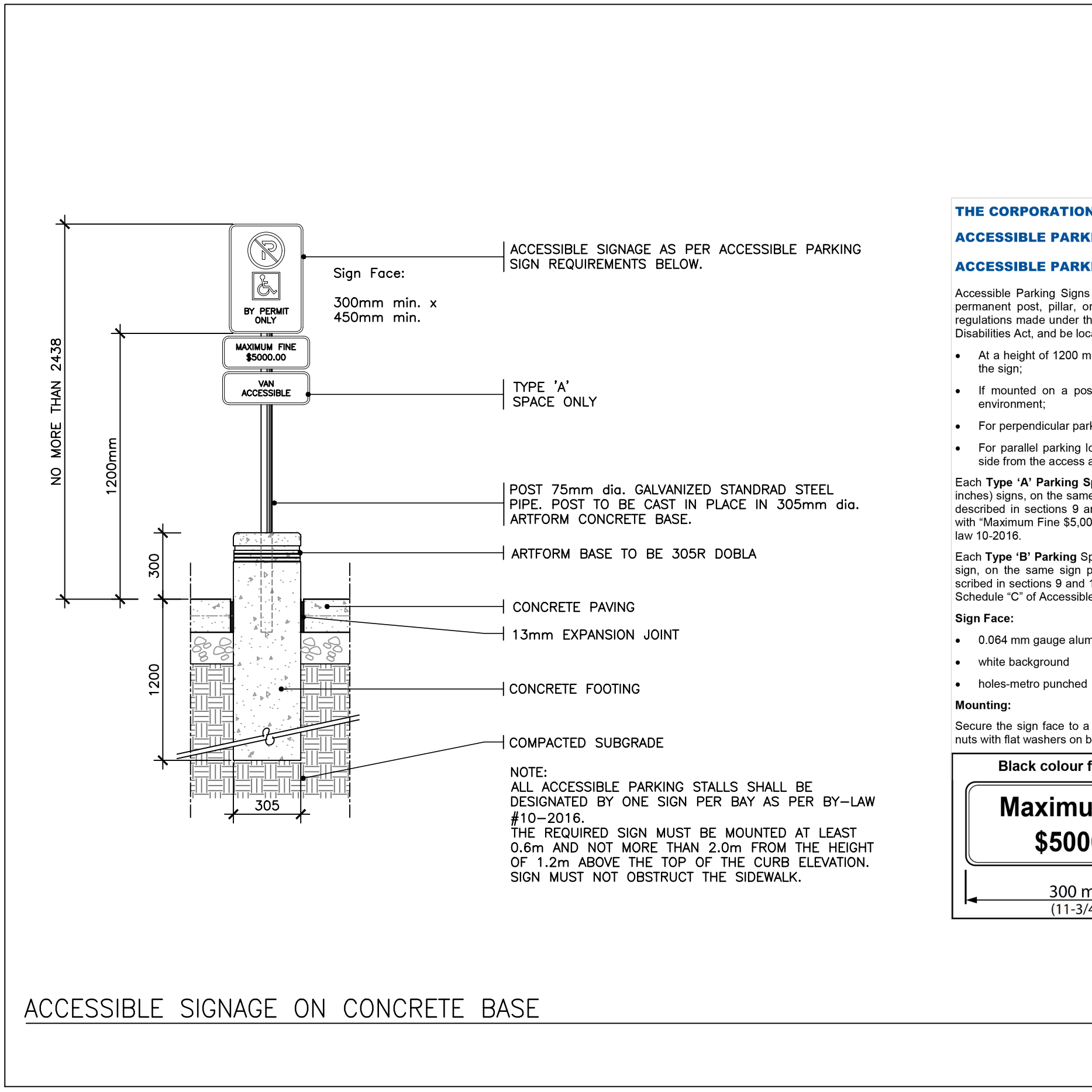
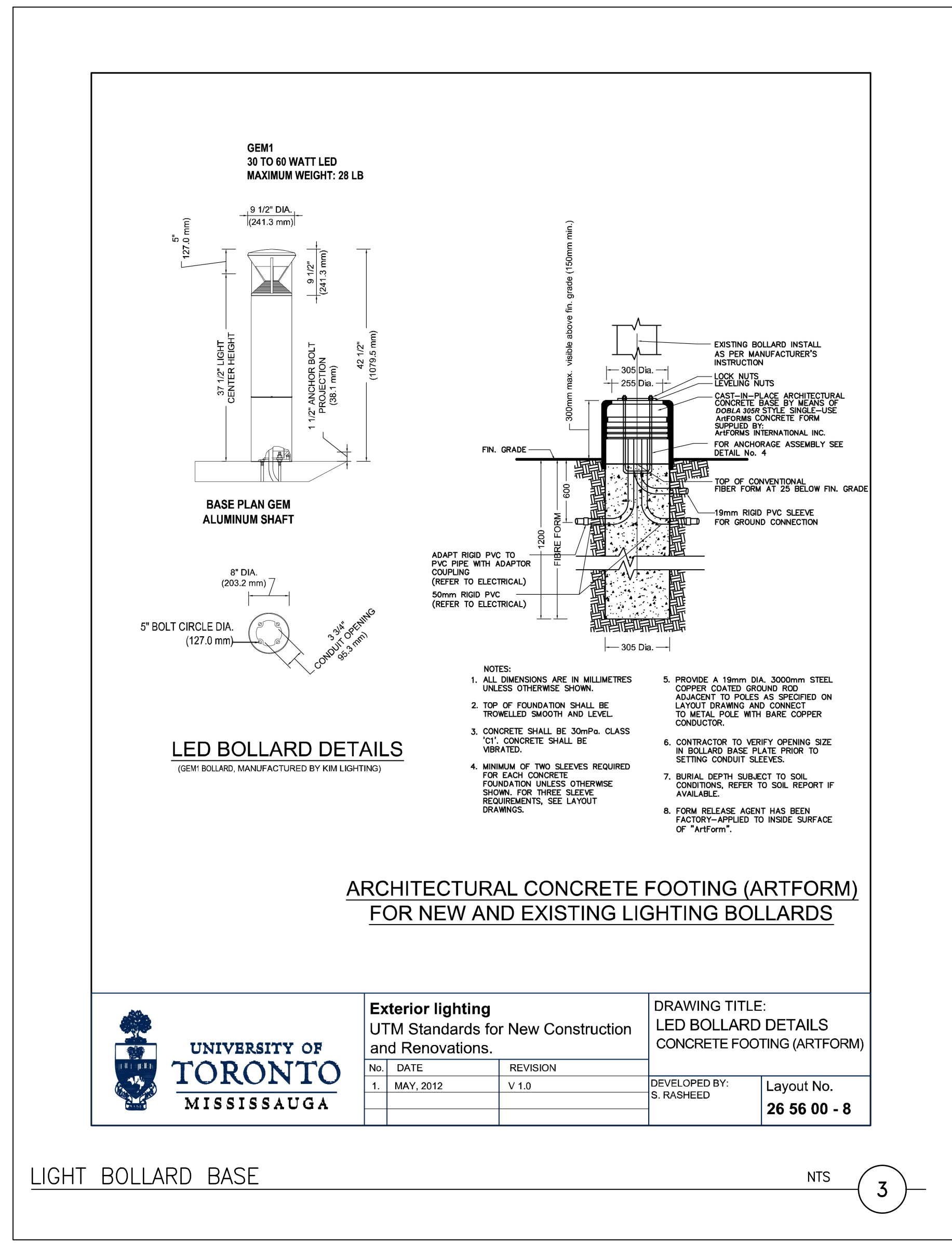
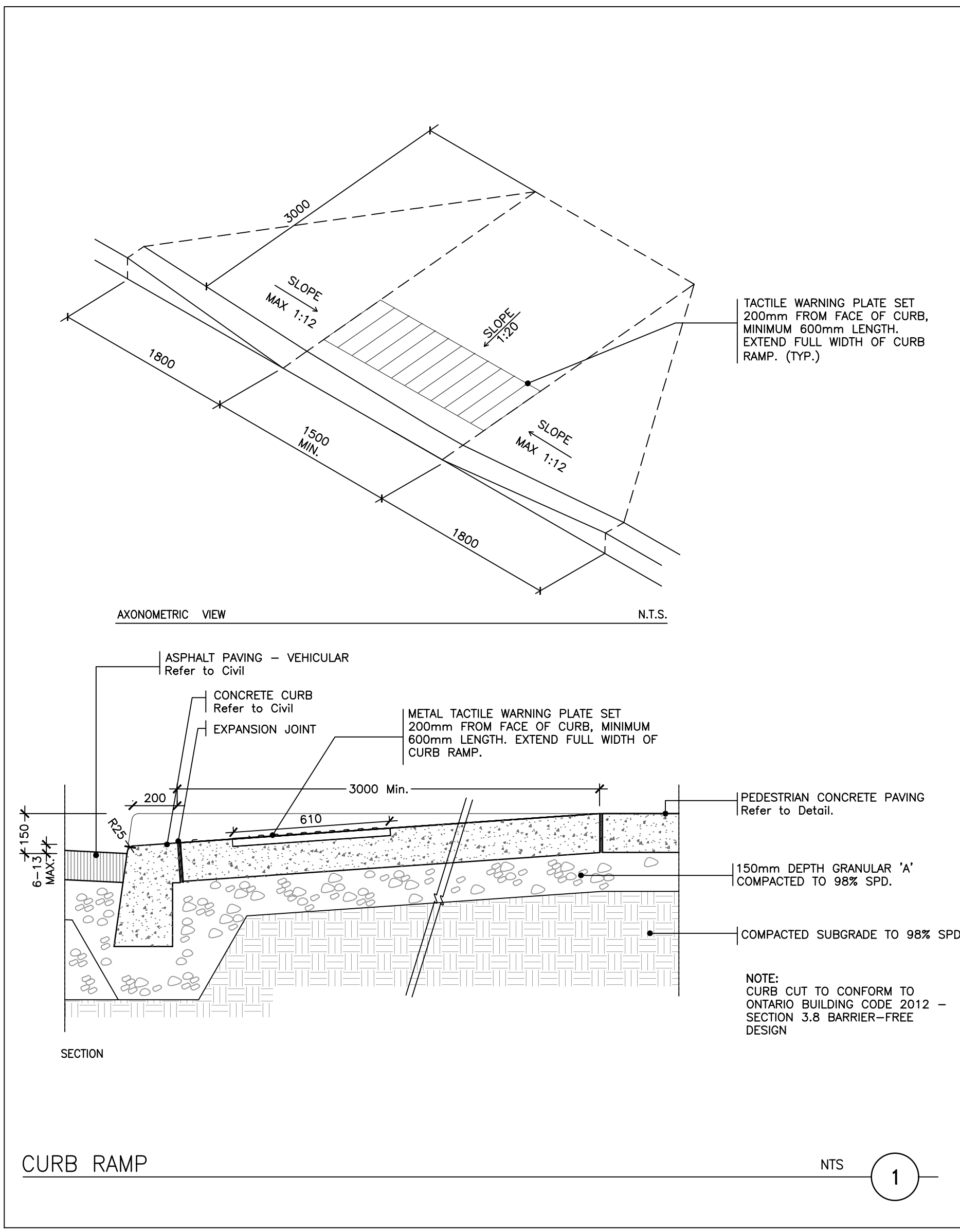
TITLE
LANDSCAPE DETAILS



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PROJECT NO.: 231533
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L300



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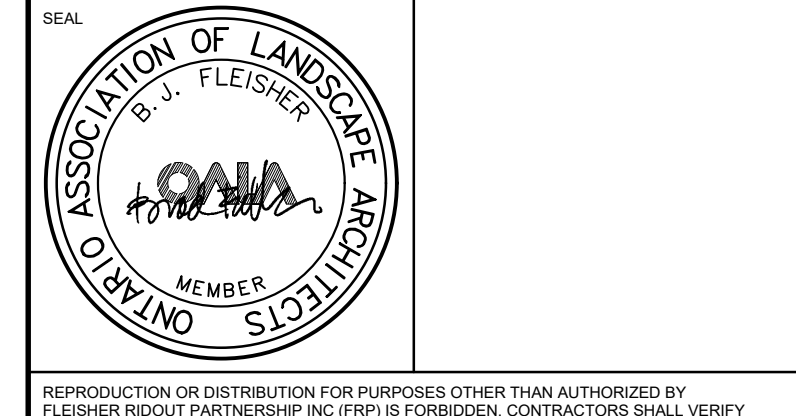
No.	ISSUANCE	DATE
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DATE:	November 2023		
PROJECT NO.:	231533		
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L301

DRAWING LIST	
DWG NO.	DRAWING NAME
M001	MECHANICAL LEGEND, DRAWING LIST
M100	PLUMBING – UNDERSLAB
M101	PLUMBING – GROUND FLOOR AND MEZZANINE
M102	PLUMBING – ROOF
M301	HVAC – GROUND FLOOR AND MEZZANINE
M302	HVAC – ROOF
M500	MECHANICAL DETAILS
M501	MECHANICAL DETAILS
M502	REFRIGERANT PIPING DIAGRAM
M800	MECHANICAL SCHEDULES

LEGEND				
NEW	EXISTING	DEMOLISHED	DESCRIPTION	
			FIRE DAMPER – D/F	
			MANUAL BALANCING DAMPER – D/B	
			STANDARD 'DOUBLE-LINE' DUCTWORK	
			STANDARD 'SINGLE-LINE' DUCTWORK	
			FLEXIBLE DUCT WITH TAKE-OFF C/W MANUAL BALANCING DAMPER	
			RETURN AIR GRILLE	
			SQUARE DIFFUSER	
			ROUND DIFFUSER	
			LINEAR DIFFUSER	
			VAV-BOX	
			HEAT PUMP/FAN COIL/EVAPORATOR	
			EXHAUST FAN	
			THERMOSTAT	
			FAN SWITCH/CONTROLLER	
			CONTROL WIRING	
			CAP	
			TRANSFER-AIR DUCTWORK	
			SANITARY DRAIN IN CEILING SPACE	
			SANITARY DRAIN BELOW FLOOR/BURIED	
			CONDENSATE DRAIN	
			PUMPED SANITARY DRAIN	
			SANITARY VENT	
			DOMESTIC COLD WATER	
			DOMESTIC HOT WATER	
			DOMESTIC HOT WATER RECIRCULATION	
			GATE VALVE	
			CIRCUIT BALANCING VALVE	
			FLOOR DRAIN – F.D.	
			UNDER FLOOR CLEANOUT	
			IN-FLOOR CLEANOUT	
			FIRE LINE	
			SPRINKLER LINE	
			FIRE HOSE CABINET	
			FIRE EXTINGUISHER	
			UPRIGHT SPRINKLER HEAD	
			PENDANT SPRINKLER HEAD	
			SEMI-RECESSED SPRINKLER HEAD	
			RECESSED SPRINKLER HEAD	
			MISC. MECHANICAL COMPONENTS	
MAX. AIR QUANTITY 000 SIZE 0	MIN. AIR QUANTITY 000	MAX. AIR QUANTITY 400 SIZE 6	MIN. AIR QUANTITY 000 SIZE 0	TERMINAL BOX DESIGNATION
SIZE 00"x00" TYPE A	AIR QUANTITY 120			DIFFUSER OR GRILLE DESIGNATION
C.T.E.		CONNECT TO EXISTING		
		RELOCATED EQUIPMENT		

No.	ISSUANCE	DATE
1	ISSUED FOR DESIGN DEVELOPMENT	01/03/2024
2	ISSUED FOR PERMIT	13/09/2024
3	ISSUED FOR TENDER	26/11/2024

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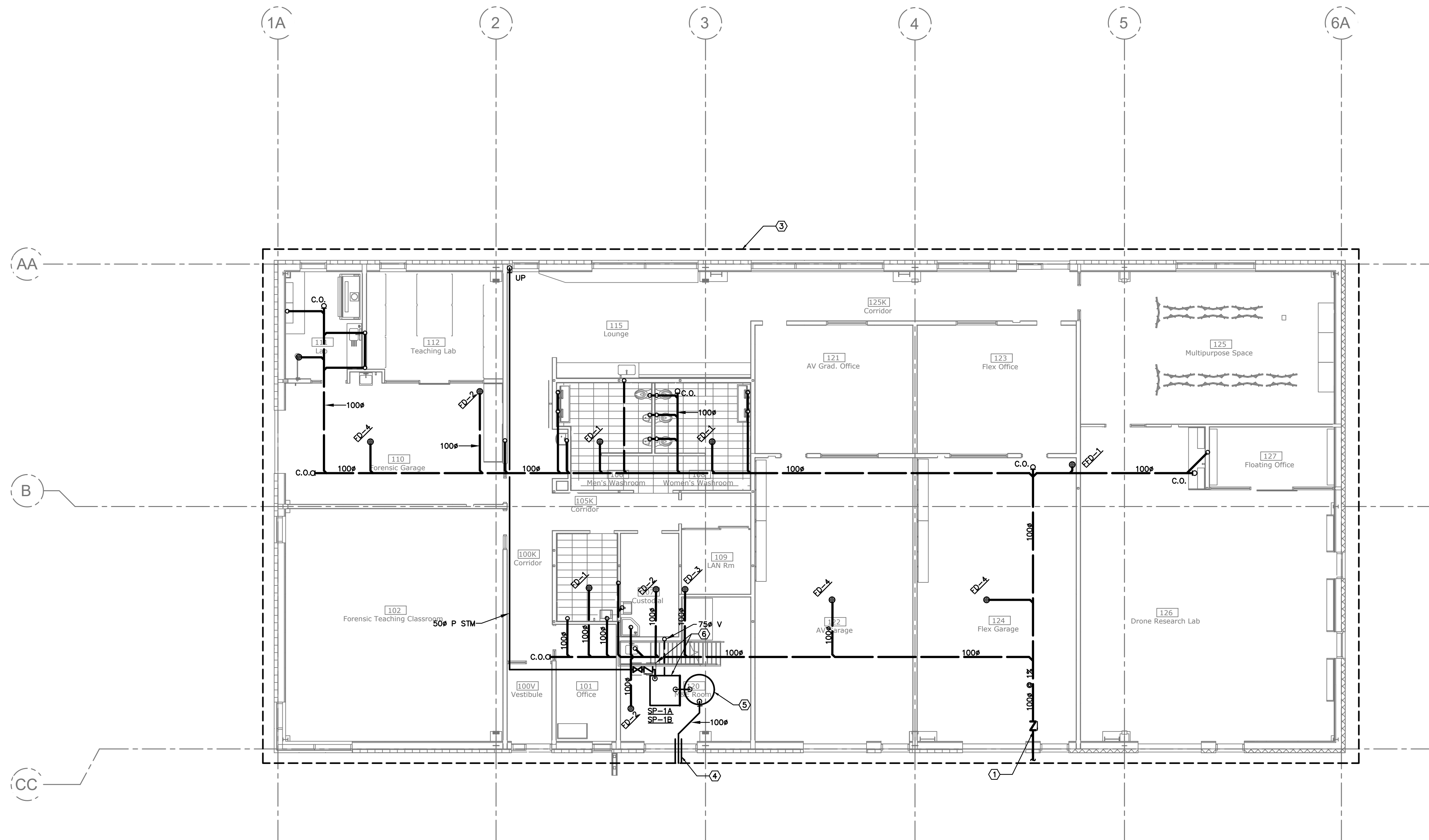
PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
MECHANICAL LEGEND, DRAWING LIST



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- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. LOCATIONS OF ITEMS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR COORDINATION. EXACT LOCATIONS ARE DEPENDANT UPON SITE CONDITIONS. REVIEW ANY REVISIONS WITH CONSULTANT.
 - PROVIDE TRAP SEAL PRIMERS FOR ALL TRAPS OF FLOOR DRAINS.
- DRAWING NOTES:**
- PROVIDE BACKWATER VALVE ON LEAVING SANITARY CONNECTION.
 - PROVIDE BACKWATER VALVE ON LEAVING STORM WATER CONNECTION.
 - 100# WEeping TILE SYSTEM LOCATED APPROXIMATELY 1200MM BELOW GRADE.
 - 100# SOLID DRAIN PIPE SHALL CONNECT TO PERIMETER WEeping TILE SYSTEM. SHALL BE PROPERLY SEALED THROUGH FOUNDATION WALL.
 - 900mm DIAMETER X 3000mm DEEP SAND TRAP PIT.
 - 1200x1200x3500 GROUNDWATER SUMP PIT COMPLETE WITH DUPLEX SUMP PUMP, CONTROLS, FLOATS. REFER TO DETAIL 3 ON DRAWING M-500 FOR MORE INFORMATION. PROVIDE ACCESS HATCH FOR CHECK VALVES AND ISOLATION VALVES

No.	ISSUANCE	DATE
1	ISSUED FOR DESIGN DEVELOPMENT	01/03/2024
2	ISSUED FOR PERMIT	13/09/2024
3	ISSUED FOR TENDER	26/11/2024

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PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

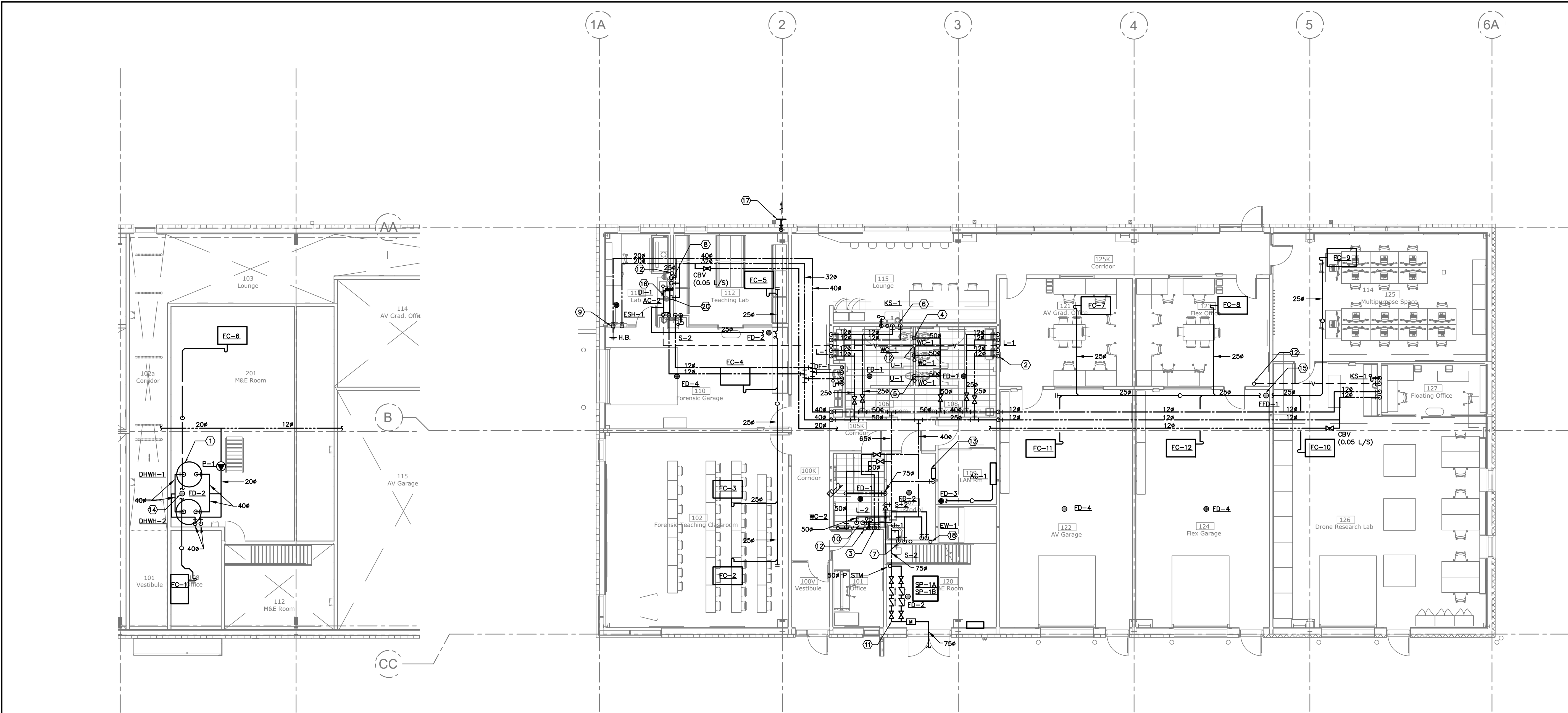
TITLE
 PLUMBING - UNDERSLAB

THEHIDIGROUP
 155 Gordon Baker Road, Suite 200
 Toronto, ON M2H 3N5 Canada
 t. 416 364 2100 | HIDI.com



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2	ISSUED FOR PERMIT	13/09/2024
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 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

TITLE
 PLUMBING - GROUND FLOOR AND MEZZANINE

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 155 Gordon Baker Road, Suite 200
 Toronto, ON M2H 3N5 Canada
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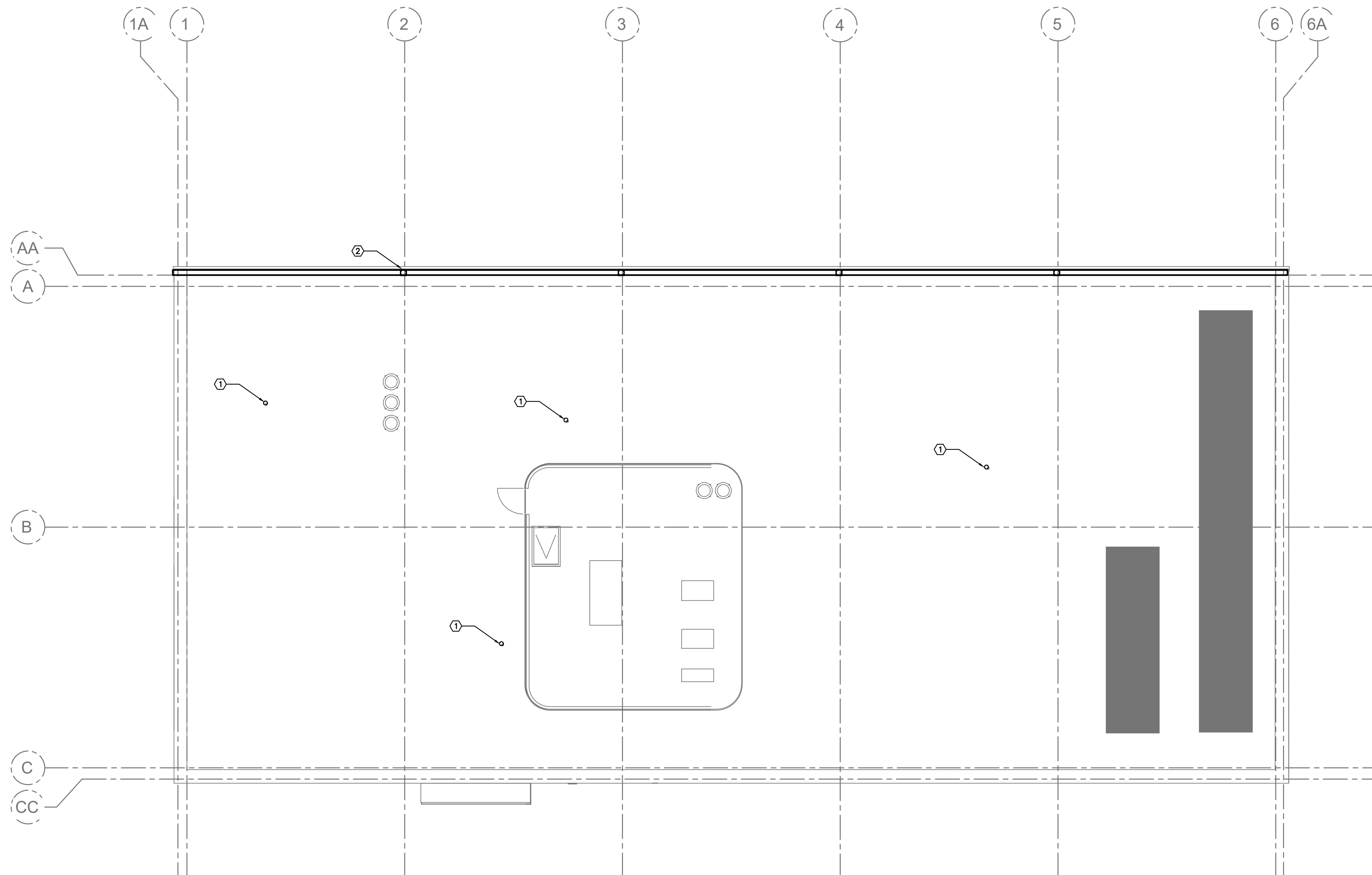


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PROJECT NO.: 2023-0059		
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 - PROVIDE ALL SANITARY VENTING TO BE SIZED AND INSTALLED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
 - PROVIDE WATER HAMMER ARRESTORS IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH201 AND MANUFACTURER'S INSTRUCTIONS. WATER HAMMER ARRESTORS SHALL BE STAINLESS STEEL CONSTRUCTION WITH NESTING BELLOWS PRECHARGED WITH AIR - WADE 'SHOCKSTOP' OR EQUAL.
 - PROVIDE TRAP SEAL PRIMERS FOR ALL TRAPS OF FLOOR DRAINS.
- DRAWING NOTES:**
- PROVIDE AND INSTALL NEW ELECTRIC DOMESTIC HOT WATER TANK IN MECHANICAL MEZZANINE C/W 20# DRAIN LINE. DRAIN LINE TO BE PIPED FLOOR DRAIN. REFER TO DETAIL 2 ON DRAWING M-500 FOR MORE INFORMATION.
 - EXTEND 12# HOT AND COLD WATER LINES DOWN TO NEW 'L-1', 30# VENT LINE UP FROM 'L-1' AND 40# SANITARY LINE DOWN FROM 'L-1'. (TYPICAL)
 - EXTEND 12# HOT AND COLD WATER LINES DOWN TO NEW 'L-2', 30# VENT LINE UP FROM 'L-2' AND 40# SANITARY LINE DOWN FROM 'L-2'. (TYPICAL)
 - EXTEND 40# COLD WATER LINE DOWN TO NEW 'WC-1', 50# VENT LINE UP FROM 'WC-1' AND 75# SANITARY LINE DOWN FROM 'WC-1'. (TYPICAL)
 - EXTEND 40# COLD WATER LINE DOWN TO NEW 'U-1', 50# VENT LINE UP FROM 'U-1' AND 75# SANITARY LINE DOWN FROM 'U-1'. (TYPICAL)
 - EXTEND 20# HOT AND COLD WATER LINE DOWN TO NEW 'KS-1', 30# VENT LINE UP FROM 'KS-1' AND 40# SANITARY LINE DOWN FROM 'KS-1'. (TYPICAL)
 - EXTEND 12# HOT AND COLD WATER LINE DOWN TO NEW 'L-1' AND TWO (2) 'S-2', 50# VENT LINE UP FROM 'L-1' AND TWO (2) 'S-2' AND 40# SANITARY LINE DOWN FROM 'L-1' AND TWO (2) 'S-2'.
 - EXTEND HOT AND COLD WATER, SANITARY DRAIN, AND VENT TO NEW LABORATORY SINK AND EYEWASH STATION. REFER TO ARCHITECTURAL DRAWINGS FOR PRODUCT SPECIFICATION. CONTRACTOR SHALL PROVIDE ROUGH-IN CONNECTIONS AND ALLOW FOR FINAL HOOK-UP. (TYPICAL)
 - EXTEND 12# HOT AND COLD WATER LINE DOWN TO NEW EMERGENCY SHOWER, PROVIDE MIXING VALVE AND PROVIDE TEMPERED WATER TO EMERGENCY SHOWER FIXTURE. PROVIDE FLOOR DRAIN.
 - 40# DOMESTIC HOT AND COLD WATER LINE UP TO MECHANICAL MEZZANINE.
 - PROVIDE WATER METER AND BACKFLOW PREVENTER ON INCOMING DOMESTIC WATER LINE. PROVIDE EXPANSION TANK ET-1.
 - PLUMBING VENT UP TO ROOF. (TYPICAL)
 - PROVIDE ELECTRONIC TRAP SEAL PRIMER.
 - VRF COIL CONDENSATE DRAIN LINE TO TERMINATE INDIRECTLY INTO JANITOR'S SINK.
 - VRF COIL CONDENSATE DRAIN LINE TO TERMINATE INDIRECTLY AT FUNNEL FLOOR DRAIN.
 - PROVIDE DISTILLED WATER SYSTEM C/W 12mm DCW CONNECTION AND DEDICATED FAUCET.
 - GROUNDWATER STORM DISCHARGE AT GRADE FROM PUMPED STORM LINE BELOW.
 - VENT FROM SUMP PIT.
 - RESERVED.
 - PROVIDE 12# COLD WATER CONNECTION DOWN TO NEW WATER PURIFICATION SYSTEM Q-1, CONNECT TO FAUCET, REFER TO ARCHITECTURAL SPECIFICATIONS FOR FAUCET.

PROVIDE PLUMBING VENTING AS PER OBC



- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. LOCATIONS OF ITEMS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR COORDINATION. EXACT LOCATIONS ARE DEPENDANT UPON SITE CONDITIONS. REVIEW ANY REVISIONS WITH CONSULTANT.
 - PROVIDE ALL SANITARY VENTING TO BE SIZED AND INSTALLED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
- DRAWING NOTES:**
- PLUMBING VENT. (TYPICAL)
 - PERIMETER ROOF GUTTER COMPLETE WITH RAINWATER LEADERS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. (TYPICAL 4)

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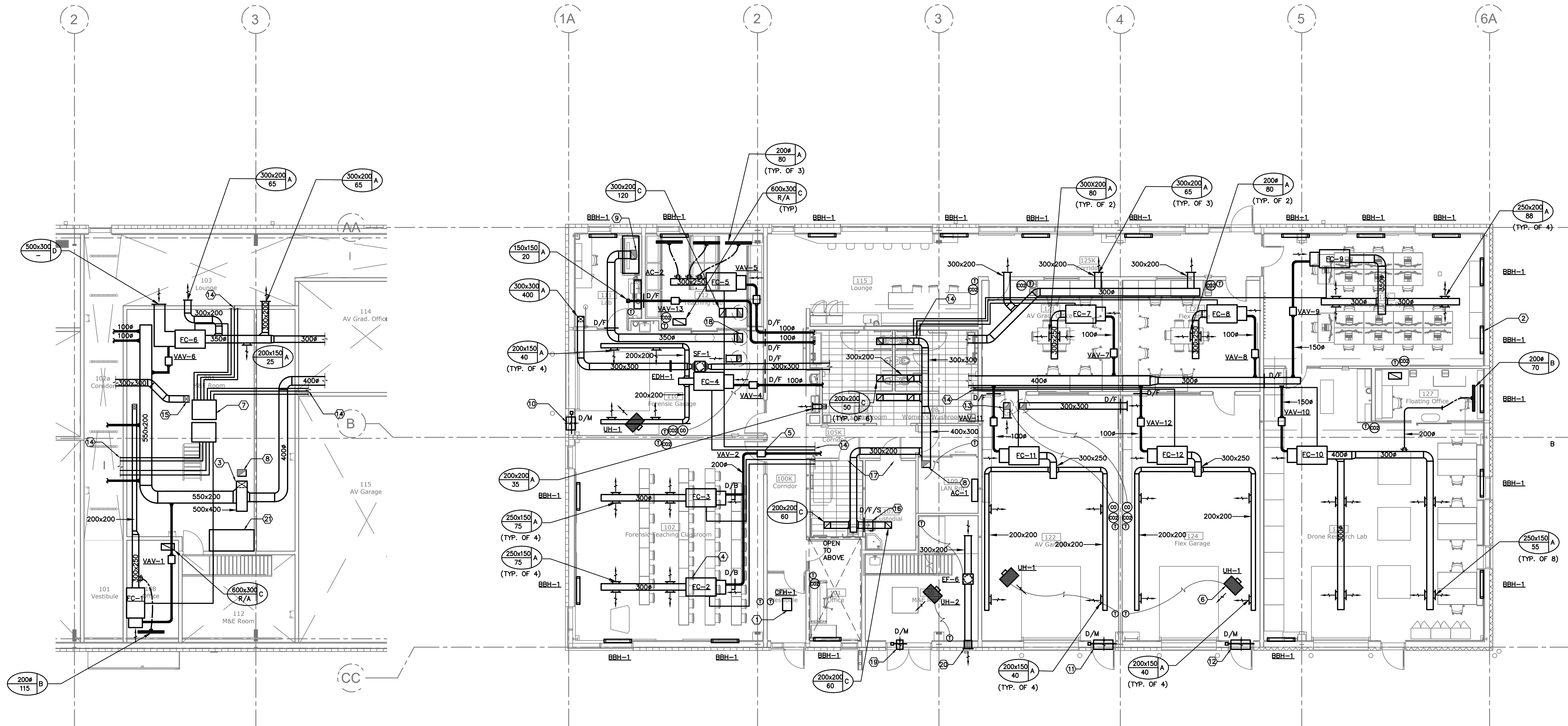
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 HVAC - GROUND FLOOR AND MEZZANINE

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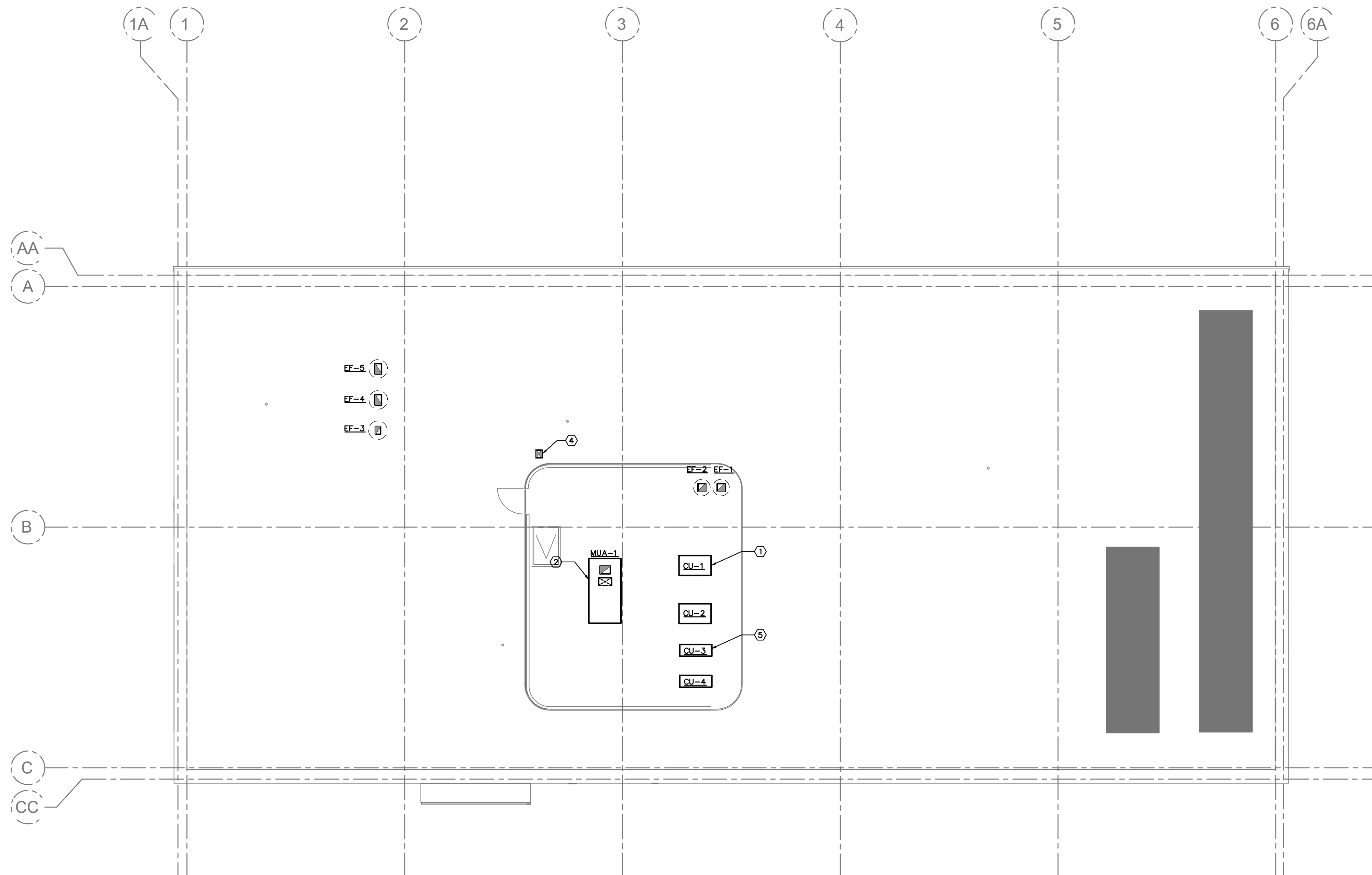


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- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. LOCATIONS OF ITEMS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR COORDINATION. EXACT LOCATIONS ARE DEPENDANT UPON SITE CONDITIONS. REVIEW ANY REVISIONS WITH CONSULTANT. COORDINATE PLACEMENT OF MECHANICAL DEVICES PER THE ARCHITECTURAL DRAWINGS.
 - CONTRACTOR SHALL BALANCE THE SYSTEM BASED ON THE AIR VALUES AS SHOWN.
- DRAWING NOTES:**
- PROVIDE CEILING FAN HEATER C/W REMOTE THERMOSTAT. (TYPICAL)
 - PROVIDE SEPARATE PRICE FOR SUPPLY AND INSTALLATION OF ALL BASEBOARD HEATERS (TYPICAL).
 - MAKE-UP AIR DUCT UP TO ROOF.
 - PROVIDE VRF SYSTEM INCLUDING INDOOR FAN COIL UNITS, CONDENSING UNIT, BRANCH SELECTOR BOX, REFRIGERANT PIPING, AND ALL CONTROLS. REFER TO DETAIL MXX FOR MORE INFORMATION. (TYPICAL)
 - PROVIDE VAV BOXES AS SHOWN. VAV BOX SHALL BE INTERLOCKED WITH ROOM CO2 SENSOR FOR DEMAND CONTROL VENTILATION. (TYPICAL)
 - PROVIDE ELECTRIC UNIT HEATER. (TYPICAL)
 - VRF HEAT RECOVERY BRANCH SELECTOR BOX. (TYPICAL 2)
 - EXHAUST DUCT UP TO ROOF. (TYPICAL)
 - LABORATORY EXHAUST FUME HOOD DUCTED UP TO ROOF MOUNTED EXHAUST FAN.
 - 600x300 INTAKE AIR LOUVER, RAINPROOF, BIRDSCREEN. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH GARAGE EXHAUST FAN.
 - 900x300 INTAKE AIR LOUVER, RAINPROOF, BIRDSCREEN. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH GARAGE EXHAUST FAN.
 - 900x300 INTAKE AIR LOUVER, RAINPROOF, BIRDSCREEN. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH GARAGE EXHAUST FAN.
 - GARAGE EXHAUST FAN SHALL BE INTERLOCKED WITH CARBON MONOXIDE AND NITROUS DIOXIDE DETECTION SYSTEM. (TYPICAL 3)
 - REFRIGERANT PIPING. (TYPICAL)
 - SUPPLY INTAKE DUCT UP TO ROOF COMPLETE WITH GOOSENECK.
 - PROVIDE BACKDRAFT DAMPER.
 - PROVIDE 20mm DOOR UNDERCUT FOR TRANSFER AIRFLOW
 - SLOPE LABORATORY EXHAUST DUCTWORK AND PROVIDE DRAIN IN DUCTWORK AT LOWEST POINT. DRAIN SHALL TERMINATE AT NEARBY FLOOR DRAIN.
 - 300x300 INTAKE AIR LOUVER, RAINPROOF, BIRDSCREEN. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH EXHAUST FAN.
 - 300x200 EXHAUST LOUVER, RAINPROOF, BIRDSCREEN.
 - OPERATOR WORK STATION (OWS) FOR BUILDING AUTOMATION SYSTEM.



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DRAWING NOTES:

- VRF CONDENSER UNITS. (TYPICAL).
- PROVIDE DEDICATED OUTDOOR AIR SYSTEM MUA-1 COMPLETE WITH ROOF CURB, DUCTWORK, CONTROLS.
- PROVIDE ROOF MOUNTED EXHAUST FAN COMPLETE WITH ROOF CURB, DUCTWORK, AND ALL CONTROLS. (TYPICAL)
- SUPPLY INTAKE DUCTWORK WITH GOOSENECK
- CONDENSER UNITS. CONTRACTOR TO ENSURE ALL NECESSARY CLEARANCES ARE ACCOMMODATED. (TYPICAL)

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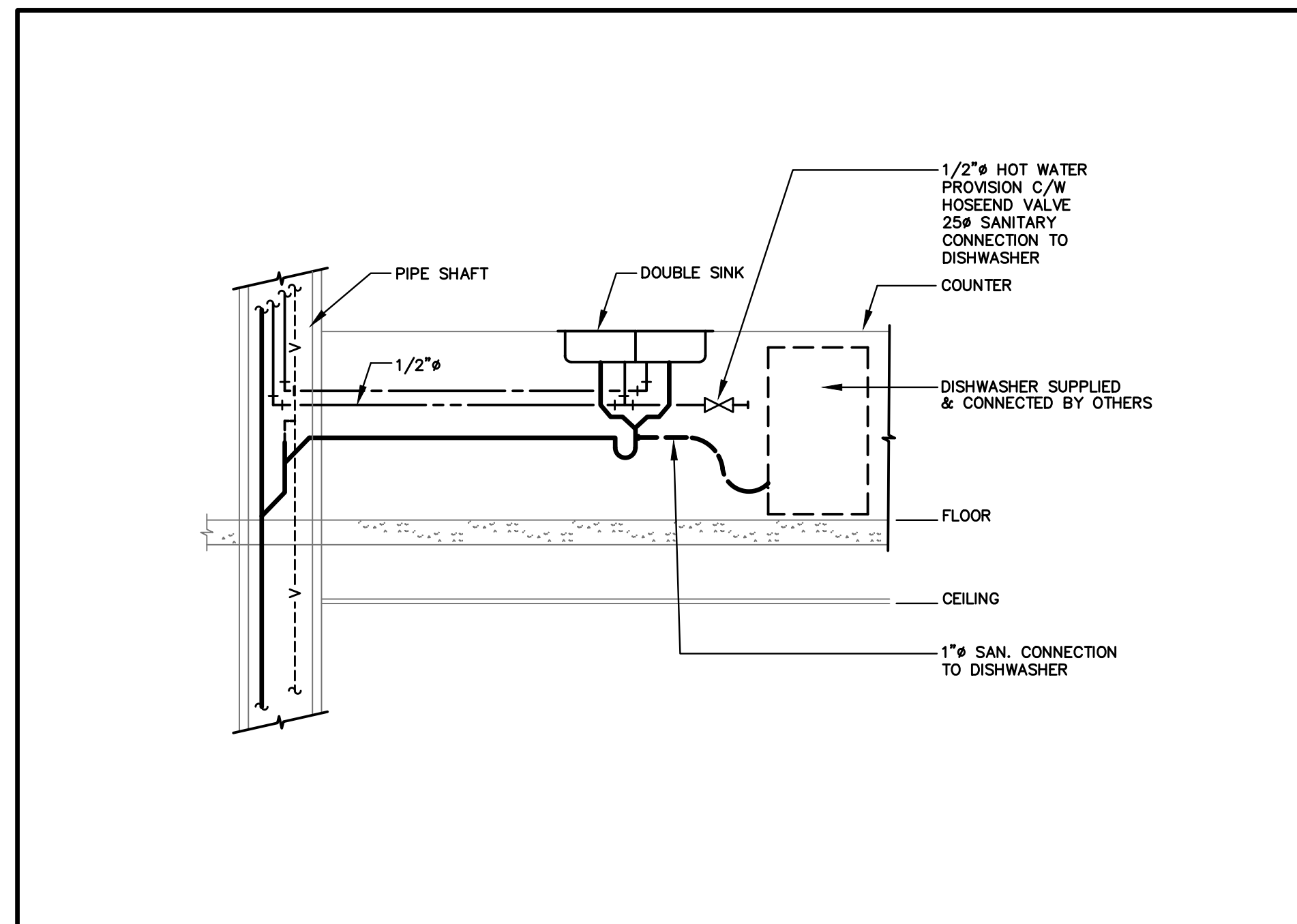
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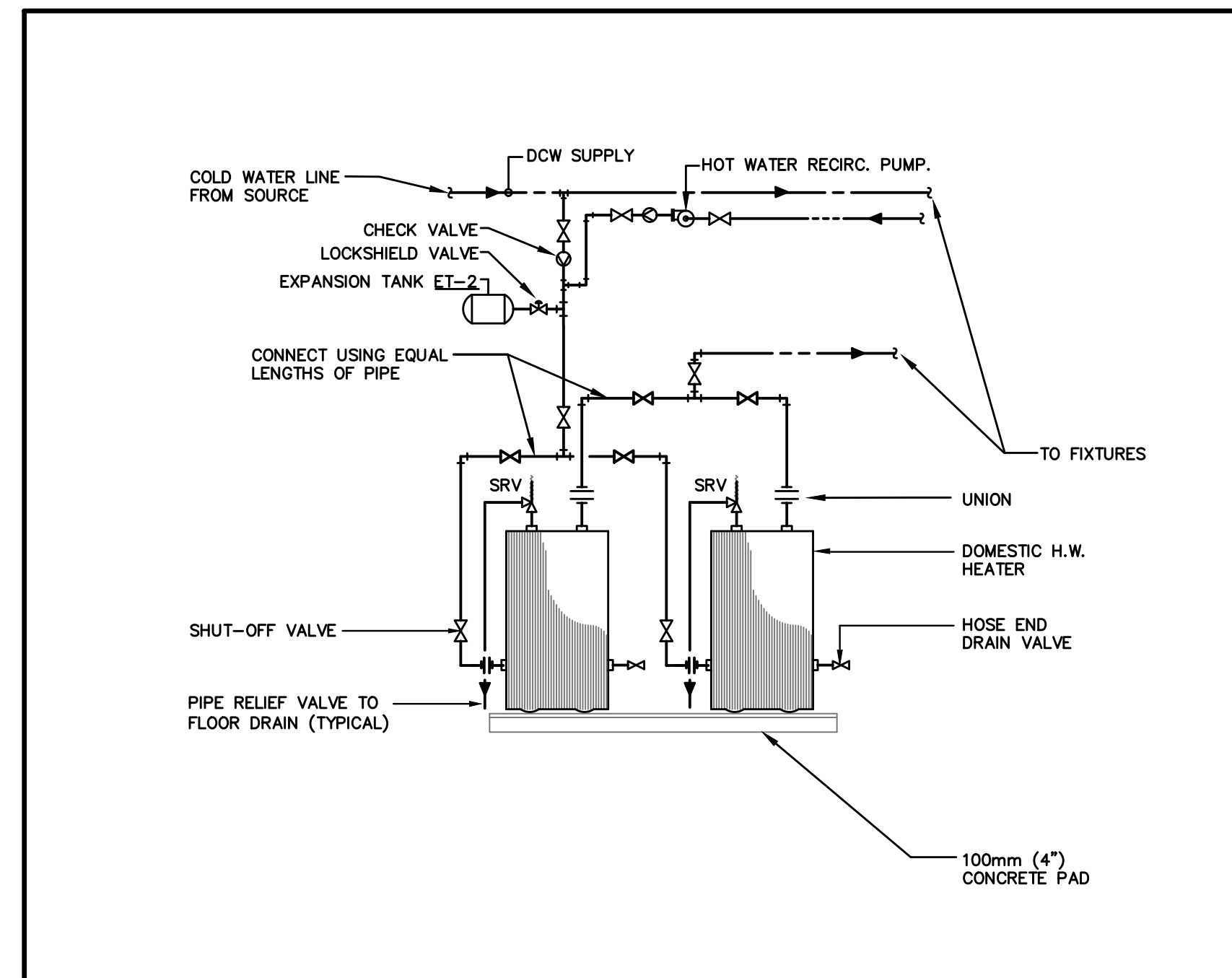


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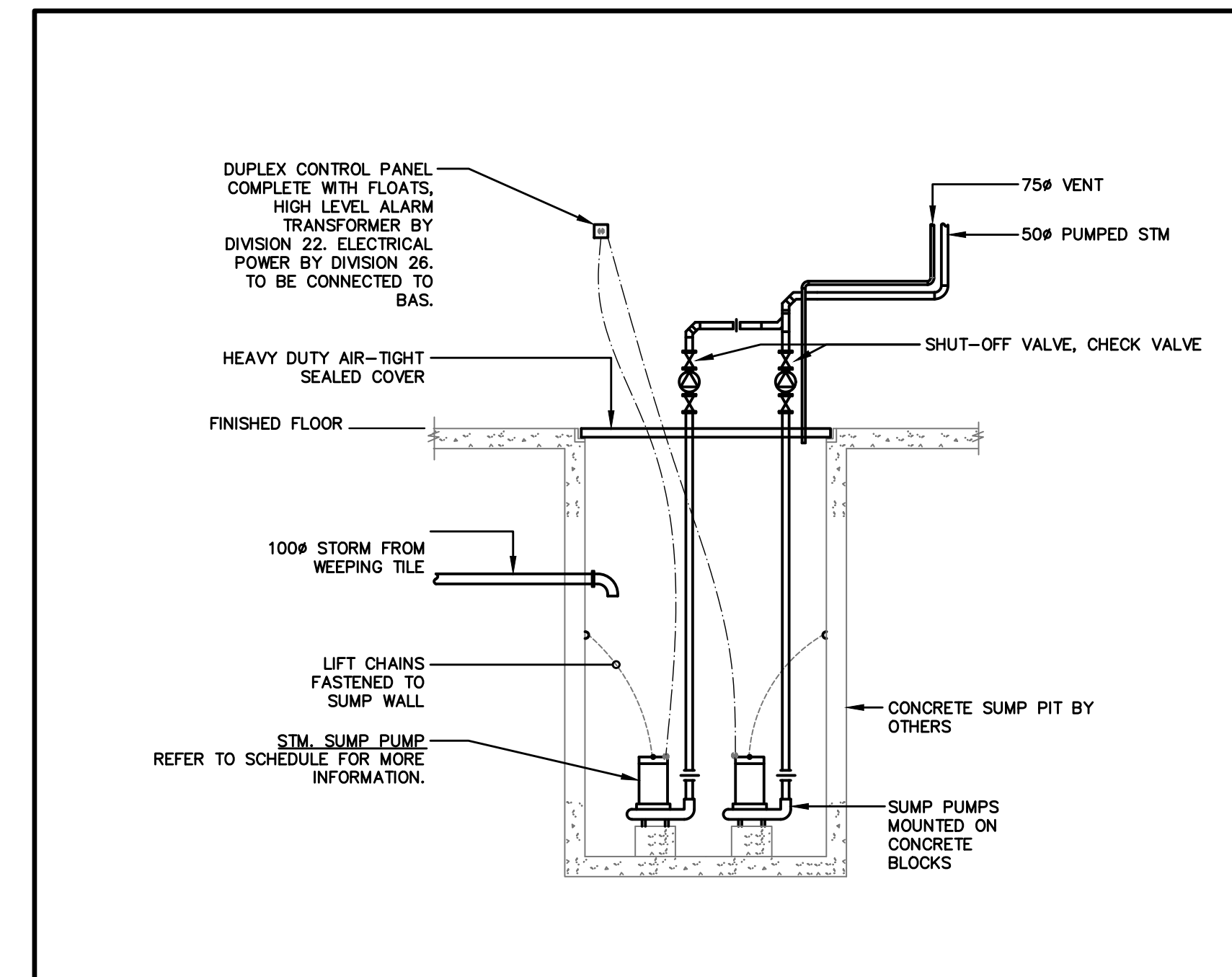
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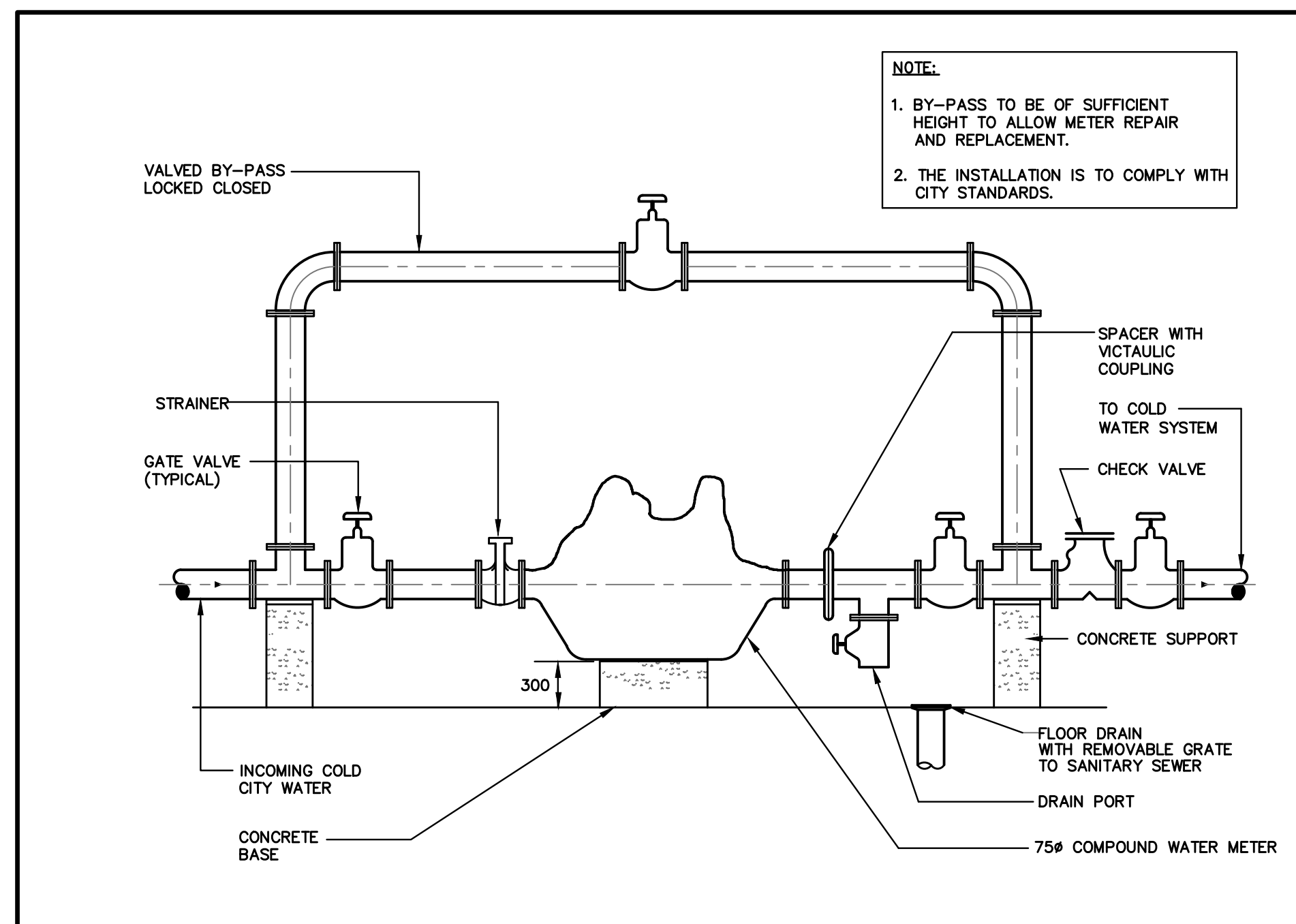
1 DISHWASHER PIPING CONNECTION DETAIL
M-500 N.T.S.



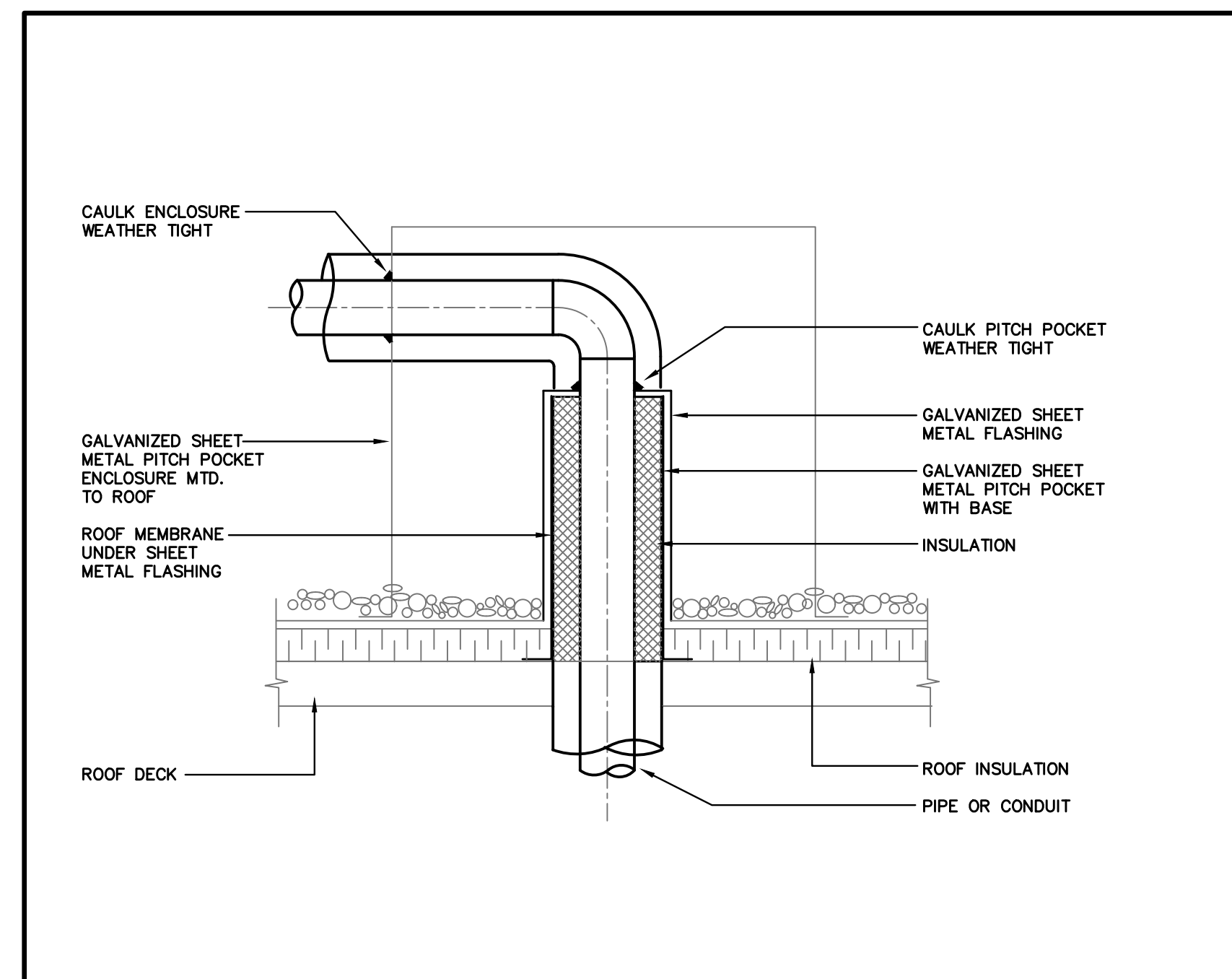
2 FLOOR MOUNT ELECTRIC DOMESTIC HOT WATER TANK DETAIL
M-500 N.T.S.



3 GROUNDWATER SUMP PUMP DETAIL
M-500 N.T.S.



4 WATER METER
M-500 N.T.S.



5 PITCH POCKET DETAIL
M-500 N.T.S.

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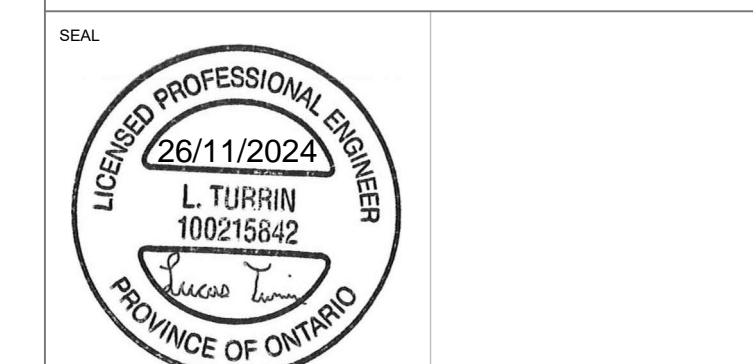


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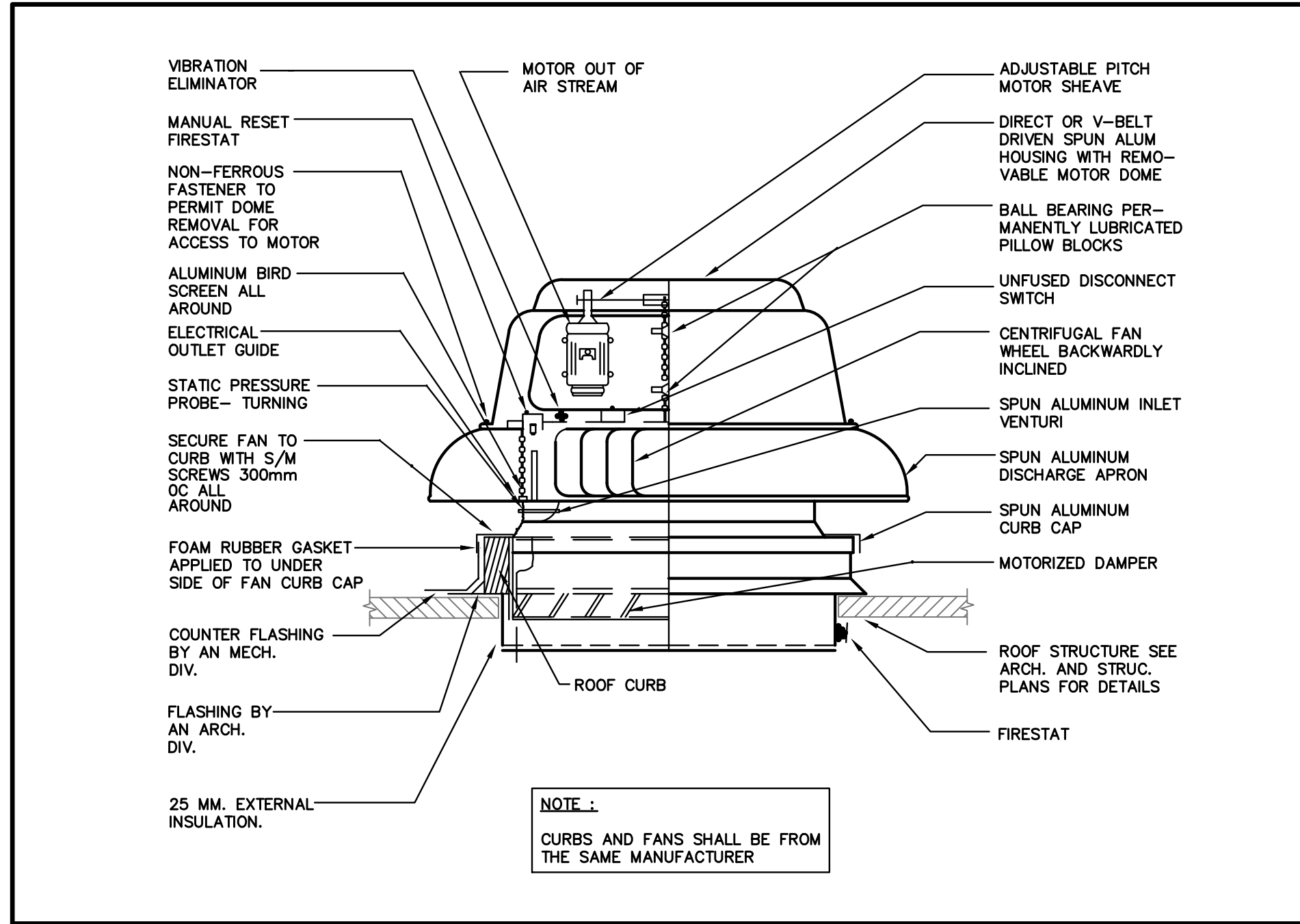
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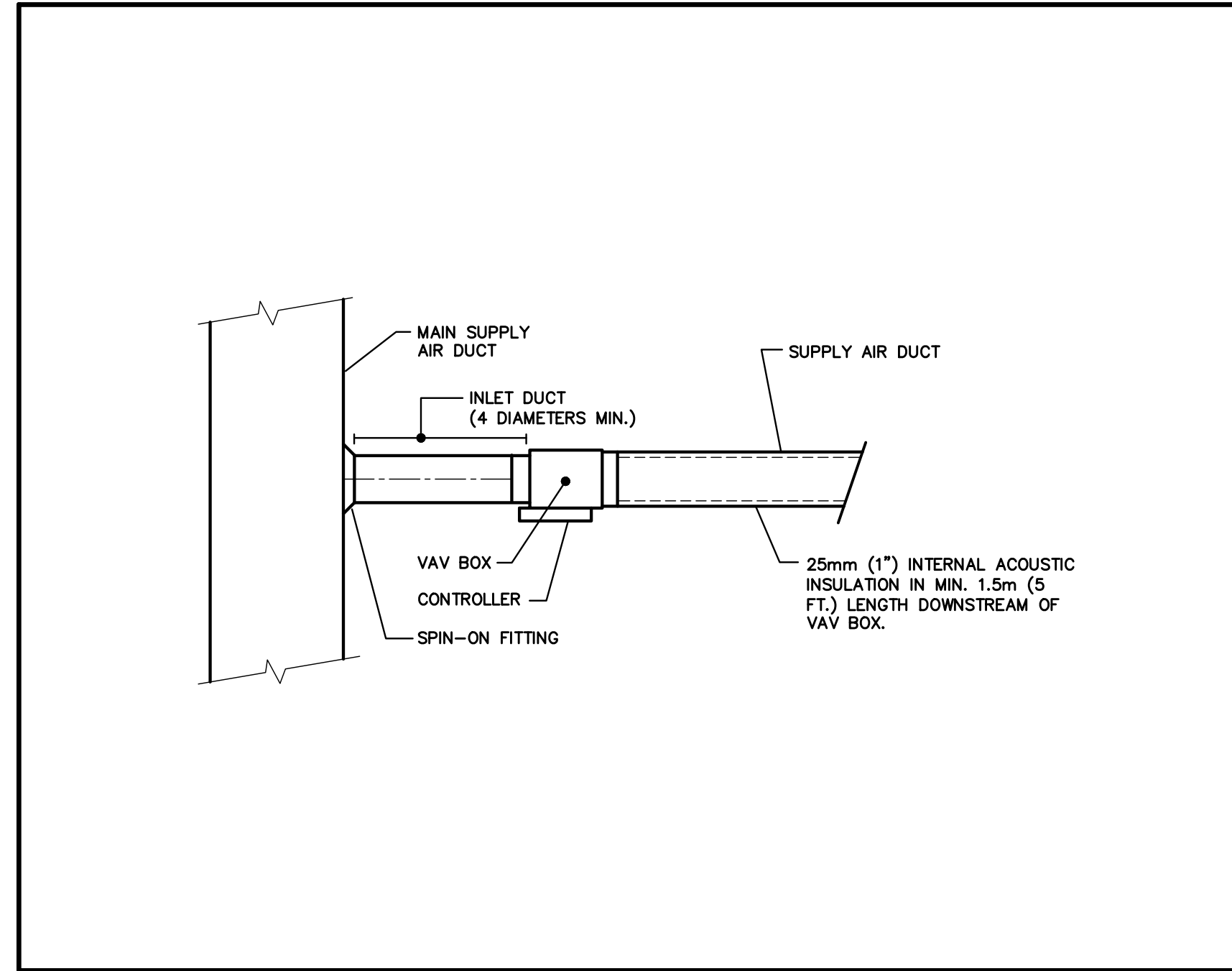
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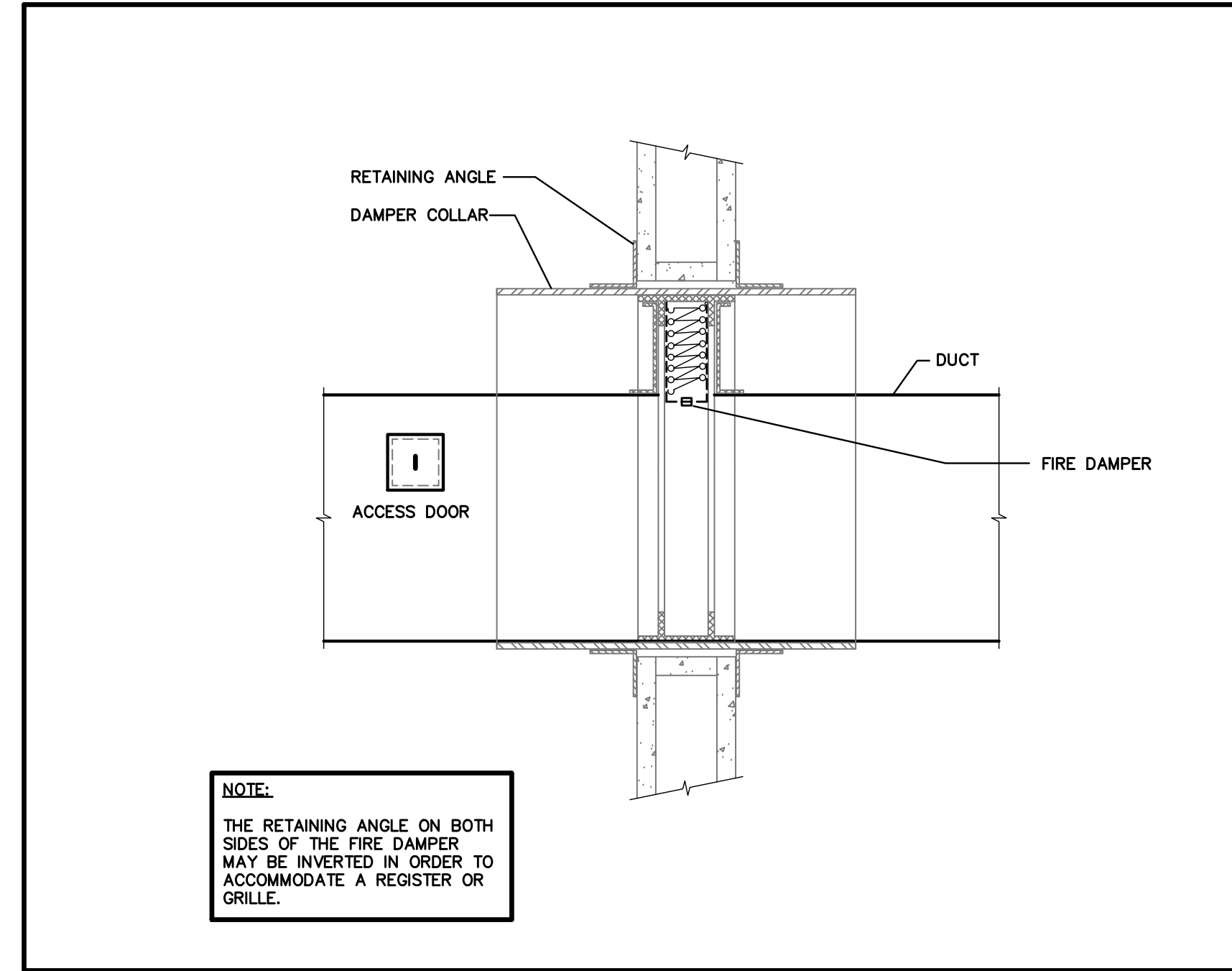
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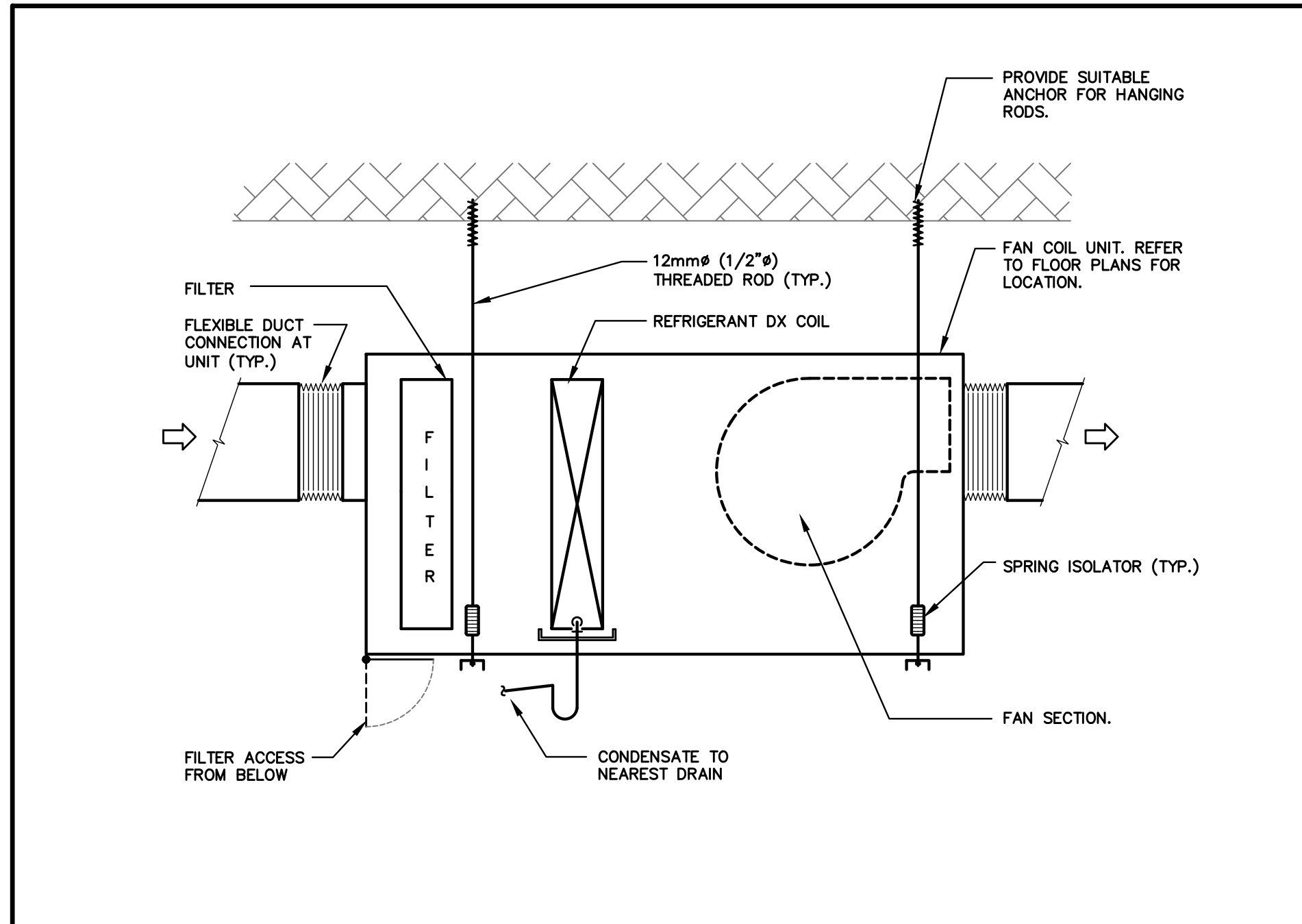
1 ROOF MTG. CENTRIFUGAL EXHAUST FAN
M-501 N.T.S.



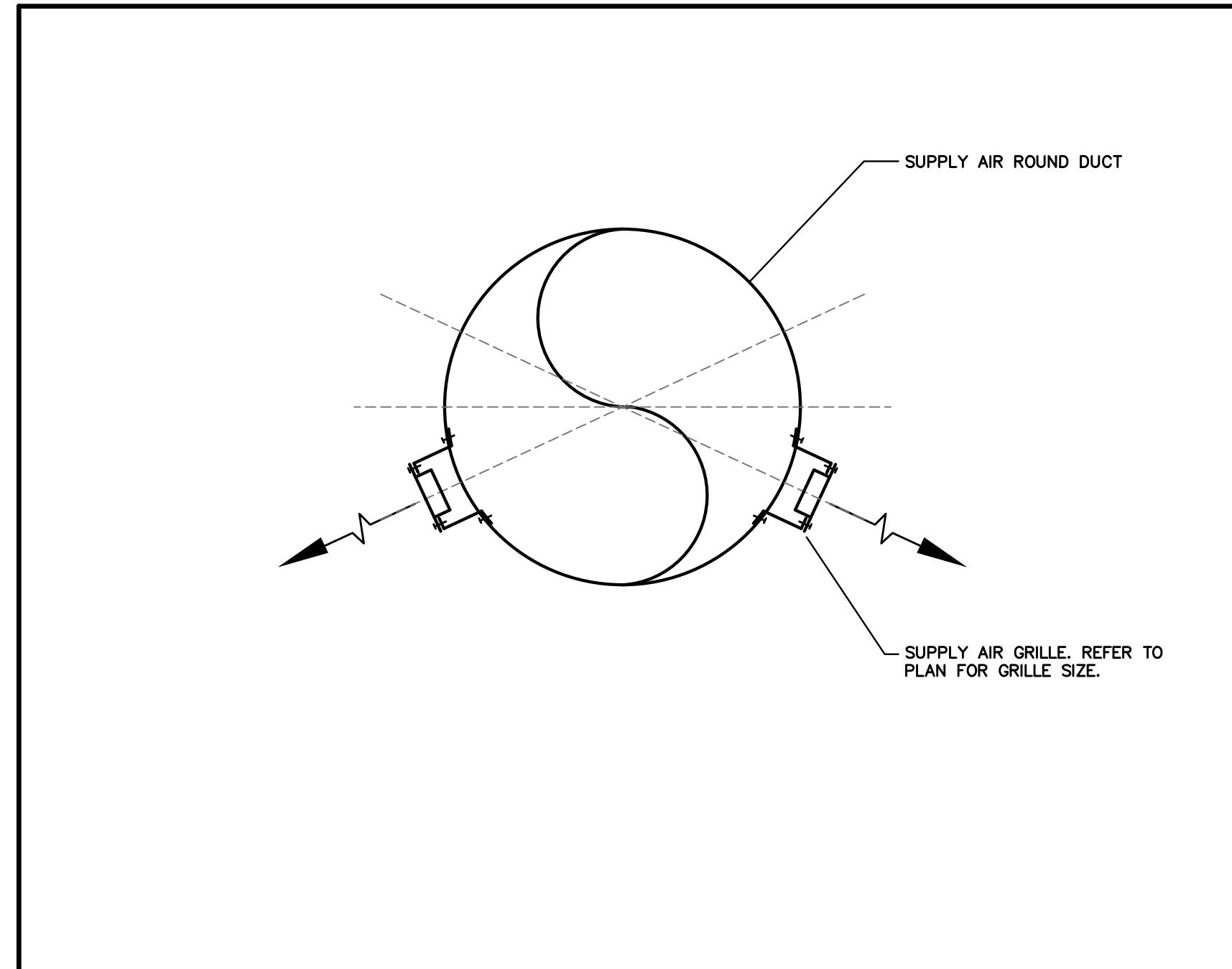
2 VAV BOX DETAIL
M-501 N.T.S.



3 FIRE DAMPER INSTALLATION DETAIL
M-501 N.T.S.



4 VRF INDOOR UNIT INSTALLATION DETAIL
M-501 N.T.S.



5 ROUND DUCT SUPPLY AIR GRILLE LOCATION
M-501 N.T.S.

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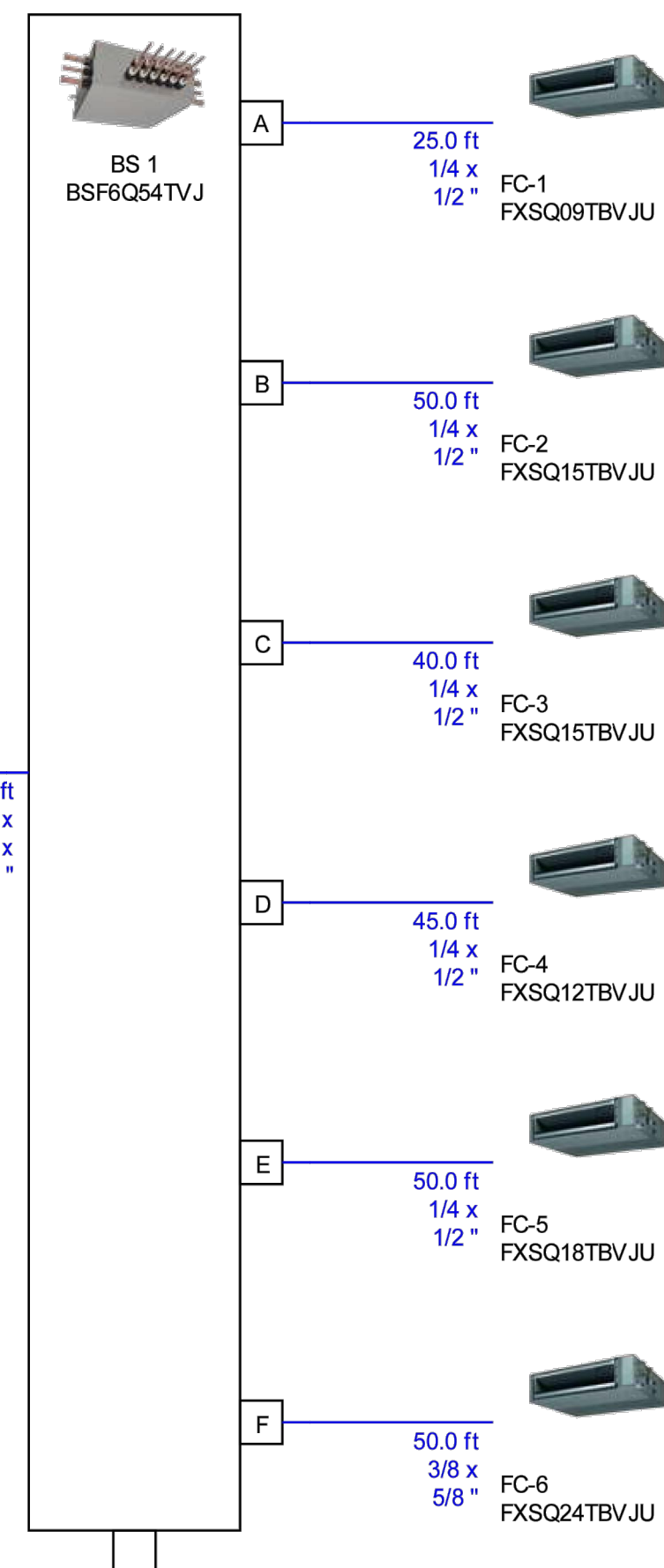
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3. Piping Diagrams

Piping CU-1

CU-1
REYQ96AATJA



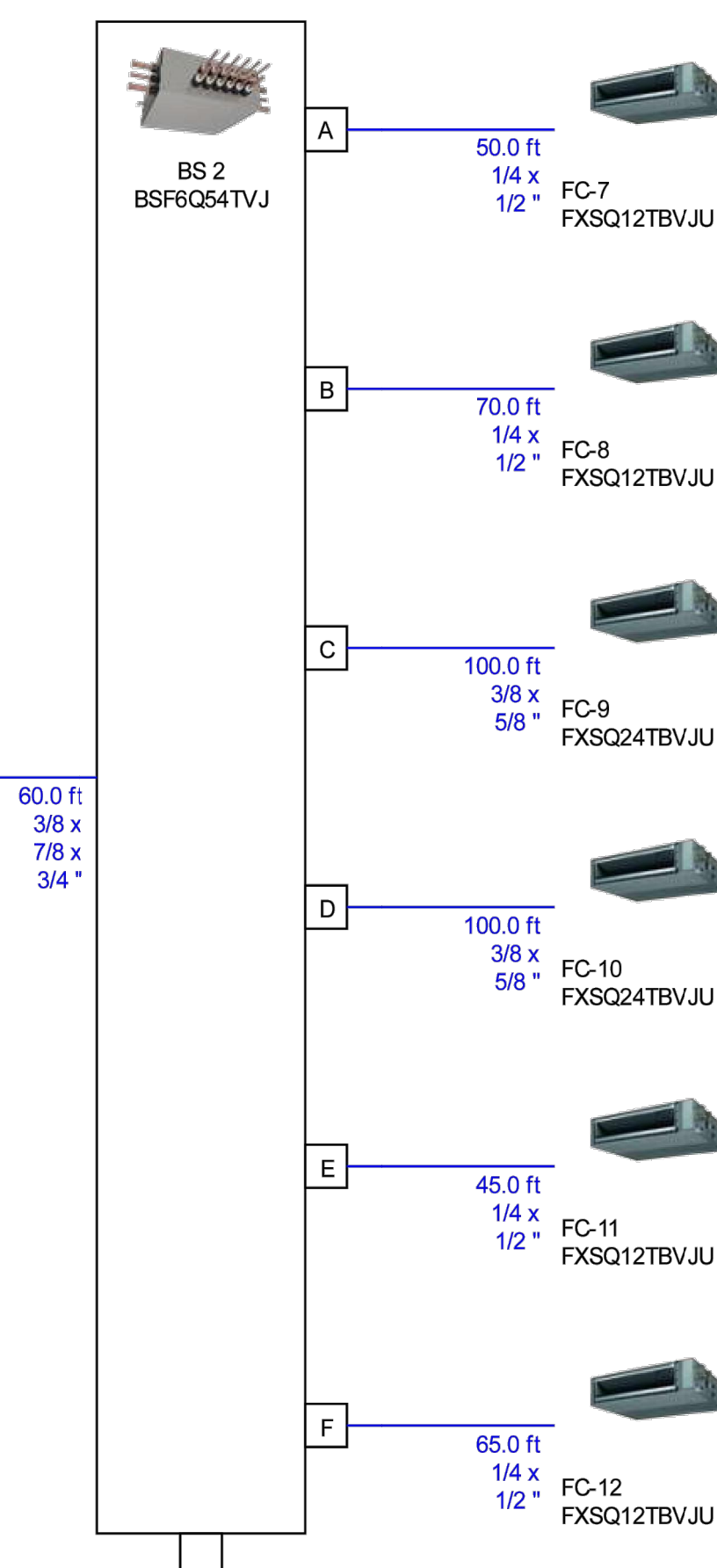
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Piping CU-2

CU-2
REYQ96AATJA



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VARIABLE REFRIGERANT FLOW (VRF) SCHEDULE

INDOOR UNITS												OUTDOOR UNITS												BRANCH SELECTOR BOX	ELEC. (V/PH/Hz)	MCA (A)	REFRIGERANT	EMERGENCY POWER	REMARKS	
TAG	LOCATION	MANUFACTURER	MODEL No.	FLOW RATE (L/S)	ESP (Pa)	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)	MCA (A)	MOCP (A)	ELEC. (V/PH/Hz)	WEIGHT (KG)	FILTER	TAG	MANUFACTURER	MODEL No.	AMBIENT TEMPERATURE (°C)	COOLING CAPACITY (MBH)	AMBIENT TEMPERATURE (°C)	HEATING CAPACITY (MBH)	ELEC. (V/PH/Hz)	MCA (A)	MOP (A)							WEIGHT (KG)
						TOTAL	SENSIBLE																							
FC-1	OFFICE 109	DAIKIN	FXSQ09TBVJU	150	0.3	8.5	6.1	10.0	1.8	15	208/1/60	35.1	MERV 13	CU-1	DAIKIN	REYQ96AATJA	35	78.3	-20	73.2	208/3/60	34.1	35	325	BSF6Q54TVJ	208/1/60	0.6	R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-2	FORENSIC TEACHING CLASSROOM 104	DAIKIN	FXSQ18TBVJU	300	0.3	15.7	12.0	19.3	1.9	15	208/1/60	35.1	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-3	FORENSIC TEACHING CLASSROOM 104	DAIKIN	FXSQ18TBVJU	300	0.3	15.7	12.0	19.3	1.9	15	208/1/60	35.1	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-4	FORENSIC GARAGE 105	DAIKIN	FXSQ12TBVJU	160	0.3	10.5	8.4	13.2	1.8	15	208/1/60	35.1	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-5	TEACHING LAB 108	DAIKIN	FXSQ15TBVJU	250	0.3	13.1	10.0	16.4	1.8	15	208/1/60	35.1	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-6	LOUNGE 103	DAIKIN	FXSQ24TBVJU	350	0.3	21.1	15.2	26.0	1.9	15	208/1/60	37.5	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-7	AV. GRAD OFFICE 110	DAIKIN	FXSQ12TBVJU	160	0.3	10.5	8.4	13.2	1.8	15	208/1/60	35.1	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-8	FLEX OFFICE 112	DAIKIN	FXSQ12TBVJU	160	0.3	10.5	8.4	13.2	1.8	15	208/1/60	35.1	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-9	MULTIPURPOSE SPACE 114	DAIKIN	FXSQ24TBVJU	350	0.3	21.1	15.2	26.0	1.9	15	208/1/60	37.5	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-10	DRONE RESEARCH LAB 115	DAIKIN	FXSQ30TBVJU	515	0.3	26.4	19.8	32.7	3.0	15	208/1/60	46.1	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-11	AV GARAGE 111	DAIKIN	FXSQ12TBVJU	160	0.3	10.5	8.4	13.2	1.8	15	208/1/60	35.1	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS
FC-12	FLEX GARAGE 113	DAIKIN	FXSQ12TBVJU	160	0.3	10.5	8.4	13.2	1.8	15	208/1/60	35.1	MERV 13															R-410A	N	BACNET, VIBRATION ISOLATION HANGERS

NOTES: PROVIDE INDIVIDUAL POWER CONNECTIONS FOR EACH INDOOR AND OUTDOOR UNIT. APPROVED ALTERNATES: LG, MITS, YORK (JCI)

VARIABLE AIR VOLUME BOX SCHEDULE

TAG	MANUFACTURER	MODEL No.	INLET SIZE (MM)	FLOW (L/S)		REMARKS
				DESIGN MIN	DESIGN MAX	
VAV-1	EH PRICE	SDV-8000	100	10	20	CONNECT TO BAS
VAV-2	EH PRICE	SDV-8000	200	80	245	CONNECT TO BAS
VAV-4	EH PRICE	SDV-8000	100	10	30	CONNECT TO BAS
VAV-5	EH PRICE	SDV-8000	150	40	125	CONNECT TO BAS
VAV-6	EH PRICE	SDV-8000	100	15	45	CONNECT TO BAS
VAV-7	EH PRICE	SDV-8000	100	15	45	CONNECT TO BAS
VAV-8	EH PRICE	SDV-8000	100	15	45	CONNECT TO BAS
VAV-9	EH PRICE	SDV-8000	150	40	125	CONNECT TO BAS
VAV-10	EH PRICE	SDV-8000	150	30	90	CONNECT TO BAS
VAV-11	EH PRICE	SDV-8000	100	15	40	CONNECT TO BAS
VAV-12	EH PRICE	SDV-8000	100	15	40	CONNECT TO BAS
VAV-13	EH PRICE	SDV-8000	100	10	20	CONNECT TO BAS

NOTES:

DI WATER SYSTEM

DI-1
 PROVIDE MILL-DI SYSTEM, RESISTIVITY > 1 MΩ·CM @ 25°C, FLOW RATE 0.5 L/MIN TO 0.7 L/MIN. BATTERY POWERED. FOR FAUCET REFER TO ARCHITECTURAL SPECIFICATIONS
 APPROVED ALTERNATE: THERMAL SCIENTIFIC "B-PURE WATER PURIFICATION SYSTEM"

ELECTRIC HEATER SCHEDULE

TAG	MANUFACTURER	MODEL No.	ARRANGEMENT	HEATING CAPACITY (kW)	ELEC (V/PH/Hz)	LENGTH (INCHES)	REMARKS
CFH-1	QUELLET	OACP2008	CEILING FAN HEATER	2	208/1/60	-	REMOTE THERMOSTAT, CONTROL RELAY
BBH-1	RUNTAL	EB3-208D	BASEBOARD HEATER	1.5	208/1/60	36	LINE VOLTAGE WALL THERMOSTAT, SEPARATE PRICE
EDH-1	GREENHECK	IDHE	DUCT HEATER	12	208/3/60	-	SCR CONTROL, AIRFLOW SWITCH, DUCT THERMOSTAT, SIZE TO MATCH DUCT SIZE

NOTES:

EXPANSION TANK SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	ACCEPTANCE VOLUME (L)	TEMPERATURE (°C)		PRE-CHARGED PRESSURE (kPa)	FLUID	DIMENSIONS (MM)		PRESSURE RATING (kPa)	WEIGHT (KG)	REMARKS
						MIN	MAX			D	H			
ET-1	DOMESTIC COLD WATER	M&E ROOM 121	WATTS	PLT-20	27	4.44	26.6	140	WATER	320	500	1034	7	BLADDER TANK
ET-2	DOMESTIC HOT WATER	M&E ROOM 201	WATTS	PLT-5	5.6	4.44	26.6	140	WATER	200	325	1034	3	BLADDER TANK

NOTES:

ELECTRIC UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL No.	HEATER SPECIFICATIONS					REMARKS
			AIR FLOW (CFM)	CAPACITY (kW)	MOTOR (HP)	ELEC. (V/PH/Hz)	WEIGHT (KG)	
UH-1	QUELLET	OAS10008AM	700	10	1/30	208/1/60	20	24V RELAY FOR REMOTE THERMOSTAT
UH-2	QUELLET	OAS05008AM	700	5	1/30	208/1/60	20	24V RELAY FOR REMOTE THERMOSTAT

NOTES:

SUPPLY FAN SCHEDULE

TAG	FAN TYPE CLASS	MANUFACTURER	MODEL No.	AIR FLOW (L/S)	FAN SPEED (RPM)	ESP (Pa)	MOTOR SIZE (HP)	ELEC. (V/PH/Hz)	VFD/STARTER	WEIGHT (KG)	EMERGENCY OR NORMAL POWER	LOCAL OR BAS CONTROL	MAXIMUM FAN SOUND POWER LEVEL OF SPECIFIED EQUIPMENT MAX. PWL IN DB RE 10W ⁻¹²								REMARKS
													ACTIVE BAND INLET SOUND POWER LABEL								
													63	125	250	500	1000	2000	4000	8000	
SF-1	IN-LINE	PENNBARRY	SQX122-0541GP	400	1684	100	0.5	120/1/60		35	N		73	71	72	66	64	71	62	56	VIBRATION ISOLATION HANGERS, INTERLOCKED WITH FUME HOOD EXHAUST

NOTES:

No.	ISSUANCE	DATE
1	ISSUED FOR DESIGN DEVELOPMENT	01/03/2024
2	ISSUED FOR PERMIT	13/09/2024
3	ISSUED FOR TENDER	26/11/2024

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 UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

TITLE
 MECHANICAL SCHEDULES



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M800

MAKE-UP (VENTILATION) AIR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL No.	SUPPLY FAN						EXHAUST FAN						HEATING PERFORMANCE - HEAT PUMP						COOLING PERFORMANCE - HEAT PUMP						BACKUP HEAT (ELECTRIC)		ELECTRICAL		
			AIR FLOW (L/S)	ESP (Pa)	SPEED (RPM)	MOTOR POWER (HP)	BHP (HP)	VFD/STARTER	AIR FLOW (L/S)	ESP (kPa)	SPEED (RPM)	MOTOR POWER (HP)	BHP (HP)	VFD/STARTER	HEATING CAPACITY (kW)	AIR SIDE			TOTAL COOLING CAPACITY (kW)	SENSIBLE COOLING CAPACITY (kW)	EER	AIR SIDE			PRE-WHEEL HEATING CAPACITY (kW)	POST-HEATING CAPACITY (kW)	VOLTAGE	MCA	MAXIMUM FUSE SIZE		
																AIR FLOW (L/S)	EAT (°C)	LAT (°C)				AIR FLOW (L/S)	EAT DB/WB (°C)	LAT DB/WB (°C)							
MUA-1	ADDISON	PROH 72 B1	860	500	2147	1.5	1.28	VFD	425	125	2261	1	0.27	VFD	15.00	860	6.2	20.8	21.2	14.1	15.6	860	28.3/21.1	14.1/14.0	20	30	575/3/60	95.7	100		

TAG	AIR FLOW (L/S)	ENERGY RECOVERY WHEEL - SUPPLY				ENERGY RECOVERY WHEEL - EXHAUST				MAXIMUM FAN SOUND POWER LEVEL OF SPECIFIED EQUIPMENT MAX. PWL IN DB RE 10W ⁻¹²								MAXIMUM FAN SOUND POWER LEVEL OF SPECIFIED EQUIPMENT MAX. PWL IN DB RE 10W ⁻¹²								FILTERS	WEIGHT (KG)	REFRIGERANT	EMERGENCY OR NORMAL POWER	REMARKS					
		TOTAL ENERGY RECOVERED (kW)		EFFECTIVENESS (%)		EAT DB/WB (°C)		LAT DB/WB (°C)		ACTIVE BAND SOUND POWER LABEL (SUPPLY)				ACTIVE BAND SOUND POWER LABEL (EXHAUST)																					
		SUMMER	WINTER	SUMMER SENS/TOTAL	WINTER SENS/TOTAL	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	63	125	250	500	1000	2000	4000	8000	63	125						250	500	1000	2000	4000
MUA-1	860	10.7	21.4	93/92	96/95	32.2/23.9	-20/-20.5	28.3/21.1	-3.8/-4.6	425	23.8/17.2	21.1/12.2	31.2/23.1	-16/-15.9	49	56	67	66	67	68	65	59	43	51	60	58	57	55	54	46	MERV 13	1150	R454B	N	HOT GAS REHEAT, 600mm ROOF CURB, BACNET CONTROLLER

NOTES:

EXHAUST FAN SCHEDULE

TAG	FAN TYPE CLASS	MANUFACTURER	MODEL No.	AIR FLOW (L/S)	FAN SPEED (RPM)	ESP (Pa)	MOTOR SIZE (HP)	ELEC. (V/PH/Hz)	WEIGHT (KG)	EMERGENCY OR NORMAL POWER	LOCAL OR BAS CONTROL	MAXIMUM FAN SOUND POWER LEVEL OF SPECIFIED EQUIPMENT MAX. PWL IN DB RE 10W ⁻¹²								REMARKS
												ACTIVE BAND INLET SOUND POWER LABEL								
												63	125	250	500	1000	2000	4000	8000	
EF-1	ROOF MOUNTED	PENNBARRY	DX13R-SC	330	1522	125	1/4	120/1/60	20	N	LOCAL	70	71	74	62	58	55	51	45	ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, SPEED CONTROLLER, BACNET
EF-2	ROOF MOUNTED	PENNBARRY	DX13R-SC	330	1522	125	1/4	120/1/60	20	N	LOCAL	70	71	74	62	58	55	51	45	ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, SPEED CONTROLLER, BACNET
EF-3	ROOF MOUNTED	PENNBARRY	DX11R-SC	165	1440	125	1/5	120/1/60	19	N	LOCAL	68	72	68	56	56	53	45	36	ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, SPEED CONTROLLER, BACNET
EF-4	LABORATORY EXHAUST FAN	PENNBARRY	VPLUME 105-5 1X1	470	3728	200	3/4	575/3/60	220	N	LOCAL	89	87	85	85	82	77	77	76	ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, DISCHARGE NOZZLE, BACNET
EF-5	ROOF MOUNTED	PENNBARRY	DX11Q-SC	120	1369	125	1/5	120/1/60	19	N	LOCAL	68	74	63	56	54	52	46	38	ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, SPEED CONTROLLER, BACNET
EF-6	IN-LINE CENTRIFUGAL	PENNBARRY	Z10H-INLINE-SC	125	1086	150	390W	120/1/60	14	N	LOCAL	63	63	59	54	51	51	47	42	VIBRATION ISOLATION HANGERS, BACKDRAFT DAMPER

NOTES:

DIFFUSER & GRILLE SCHEDULE

TAG	UNIT				DAMPER		MATERIAL	FINISH	REMARKS
	MANUFACTURER	MODEL No.	APPLICATION	DUTY	PART OF UNIT	REMOTE IN DUCT			
A	EH PRICE	520D	SUPPLY	-	Y	N	STEEL	BY ARCHITECT	DOUBLE DEFLECTION
B	E.H. PRICE	SDS100	SUPPLY	-	Y	N	ALUMINUM	BY ARCHITECT	C/W SDB PLENUM, CABLE OPERATED FACE DAMPER, 1200MM LONG, DOUBLE SLOT, 25mm SLOT, REFER TO DRAWING FOR NECK SIZE
C	EH PRICE	80 SERIES	RETURN/EXHAUST	-	Y	N	ALUMINUM	BY ARCHITECT	
D	E.H. PRICE	530	RETURN	-	-	-	ALUMINUM	BY ARCHITECT	DOUBLE DEFLECTION

NOTES:

DOMESTIC WATER HEATER SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL No.	CAPACITY (L)	RECOVERY RATE @ 100°F RISE (L/HR)	HEATER ELEMENT (kW)	ELEC. (V/PH/Hz)	WEIGHT (DRY) (KG)	REMARKS
DHWH-1	DOMESTIC HOT WATER	A.O. SMITH	DVE52-12	189	189	12.3	208/3/60	120	MANIFOLD KIT, BMS GATEWAY MODULE
DHWH-2	DOMESTIC HOT WATER	A.O. SMITH	DVE52-12	189	189	12.3	208/3/60	120	MANIFOLD KIT, BMS GATEWAY MODULE

NOTES:

PUMP SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	PUMP SPECIFICATIONS				ELEC. (V/PH/Hz)	EMERGENCY POWER	PRESSURE RATING (kPa)	FLUID	WEIGHT (KG)	REMARKS
					FLOW (L/S)	HEAD (kPa)	SPEED (RPM)	MOTOR POWER (HP)						
P-1	DOMESTIC HOT WATER RECIRCULATION PUMP	M&E ROOM 201	WLO	STAR S 33 ZF	0.1	90	1700	1/4	120/1/60	N	965	WATER	-	
SP-1	WEEPING TILE SUMP PIT	M&E ROOM 121	SULZER	EF 100-2	3.15	135	1750	2	575/3/60	N	-	GROUNDWATER	26	DUPLEX SUMP PUMP SYSTEM COMPLETE WITH CONTROLS, FLOATS, CONNECT TO BAS, PIT SHALL BE 1200x1200x3500 DEEP

NOTES:

SPLIT TYPE AC/HEAT PUMP UNIT SCHEDULE

INDOOR UNITS													OUTDOOR UNITS										REFRIGERANT	EMERGENCY POWER	REMARKS	
TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	FLOW RATE - MEDIUM FLOW (L/S)	ESP (Pa)	COOLING CAPACITY (kW)		HEATING CAPACITY (kW)	MOTOR POWER (kW)	ELEC. (V/PH/Hz)	WEIGHT (KG)	TAG	MANUFACTURER	MODEL No.	AMBIENT TEMPERATURE (°C)	HEAT REJECTION (kW/h)	ELEC. (V/PH/Hz)	SEER	EER	MCA (A)	MOP (A)				WEIGHT (KG)
AC-1	120 LAN ROOM	120 LAN ROOM	DAIKIN	FTKF24AXJU	285	-	6.56	4.80	-	-	208/1/60	14	CU-3	DAIKIN	RKF24AXJU	35	6.56	208/1/60	21	12	14.23	20	46	R32	N	BACNET ADAPTER, LOW AMBIENT COOLING, MAXIMUM REFRIGERANT LENGTH 99 FT, WIND BAFFLE
AC-2	107 LAB	107 LAB	DAIKIN	FTXM12WVJU9	185	-	3.51	-	3.98	-	208/1/60	13	CU-4	DAIKIN	RXM12WVJU9	35	3.51	208/1/60	25.2	13.2	12.3	-	44	R32	N	BACNET ADAPTER, LOW AMBIENT COOLING, MAXIMUM REFRIGERANT LENGTH 82 FT, WIND BAFFLE, MINI UNIVOLT CONDENSATE PUMP KIT

NOTES: PROVIDE INDIVIDUAL POWER CONNECTIONS TO EACH INDOOR AND OUTDOOR UNIT.

No.	ISSUANCE	DATE
1	ISSUED FOR DESIGN DEVELOPMENT	01/03/2024
2	ISSUED FOR PERMIT	13/09/2024
3	ISSUED FOR TENDER	26/11/2024

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
MECHANICAL SCHEDULES

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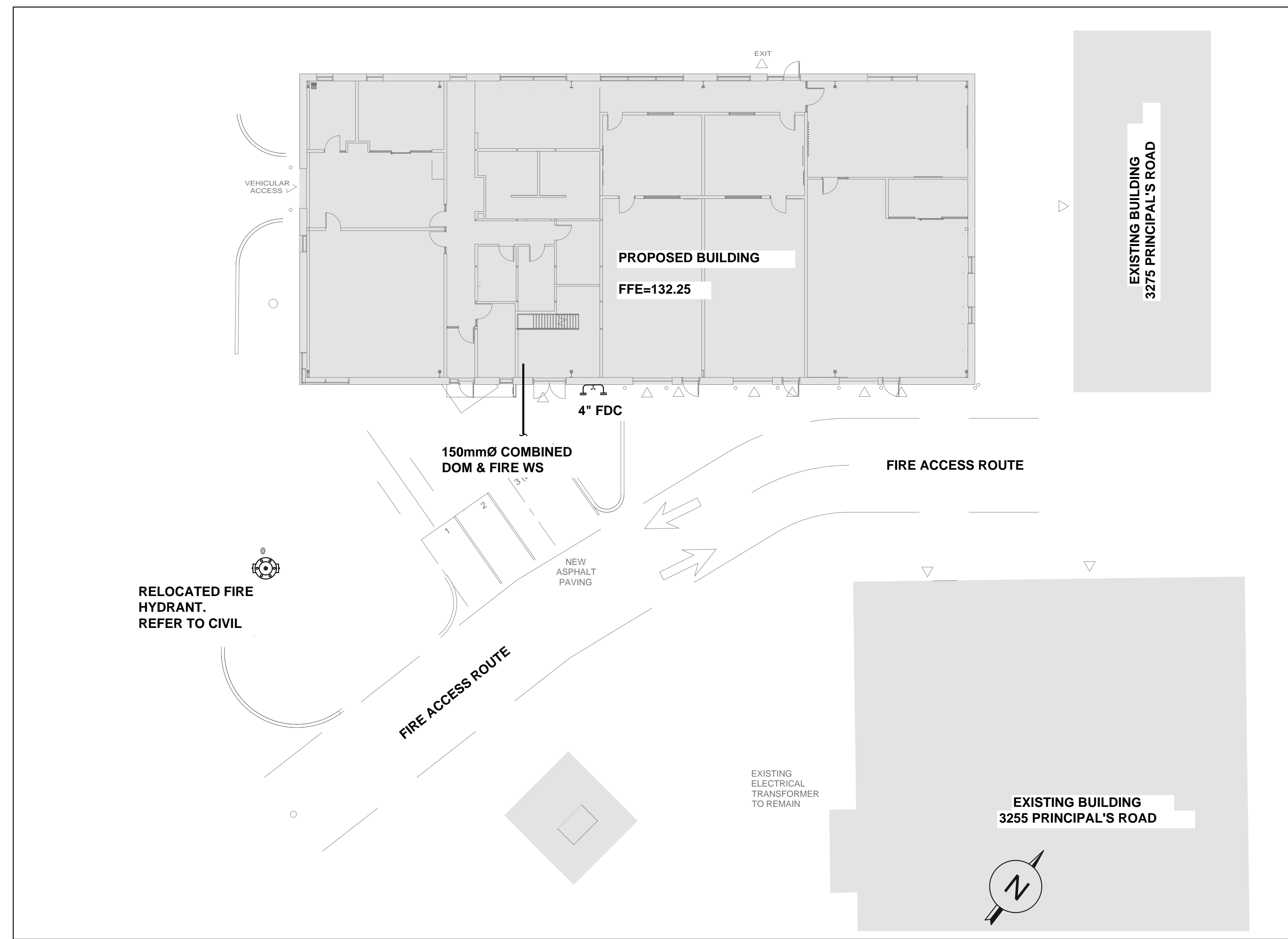
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PRE-ENGINEERED BUILDING UNIVERSITY OF TORONTO

3265 PRINCIPAL'S ROAD,

MISSISSAUGA

ONTARIO



SITE PLAN
SCALE = 1:300

FIRE PROTECTION DRAWING LIST	
DWG. No.	DRAWING TITLE
FP-1.1	SITE PLAN AND GENERAL NOTES
FP-1.2	SPECIFICATION
FP-2.1	NFPA FIGURES AND GENERAL DETAILS
FP-2.2	NFPA FIGURES AND GENERAL DETAILS
FP-2.3	RISER SCHEMATIC & SUPERVISED SCHEDULE
FP-3	PROPOSED SPRINKLER LAYOUT GROUND FLOOR
FP-4	PROPOSED SPRINKLER LAYOUT MEZZANINE FLOOR

DESIGN DATA

- SPRINKLER SYSTEM DESIGN IS IN ACCORDANCE WITH THE ONTARIO BUILDING CODE (2012), AUTHORITY HAVING JURISDICTION REQUIREMENTS, AND WITH NFPA 13 (2013).
- HYDRAULIC REQUIREMENTS ARE IN COMPLIANCE WITH NFPA 13 AND SPRINKLER SPECIFICATIONS.

- CALCULATION #1 - WET PIPE SYSTEM- GROUND FL.

DESIGN CRITERIA

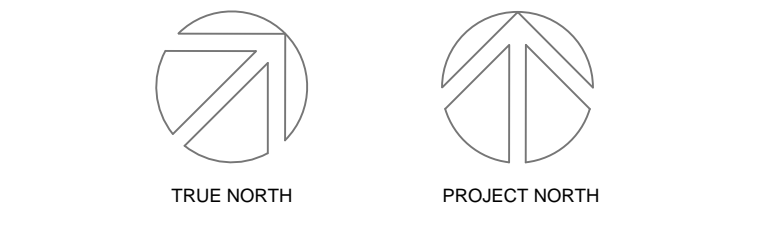
- LAB ORDINARY GROUP 2, 0.20P(M)1900(SQ.FT)(DRY), 1500(SQ.FT)(WET) PLUS 250GPM (TOTAL INSIDE AND OUTSIDE HOSE)
- DESIGN AREA REDUCTION USING QUICK RESPONSE HEADS: 11.2.3.2.3 NFPA 13) INCLUDING E.C. SPRINKLERS ARE USED THROUGHOUT THE SYSTEM, THE SYSTEM AREA SHALL BE PERMITTED TO BE REDUCED WITHOUT REVISING OF THE DENSITY WHEN ALL OF THE FOLLOWING CONDITIONS MEET THE CRITERIA
 - WET PIPE SYSTEM
 - LIGHT OR ORDINARY HAZARD
 - MAX 20'-0" CEILING HEIGHT

CODES AND STANDARDS

- ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE (2012), NFPA 13 (2013), NFPA 14(2013), NFPA20 (2016)

NFPA DETAILS AND GENERAL NOTES.

- SPRINKLER CONTRACTOR PROVIDE ADDITIONAL DRAINS AND INSPECTOR TEST CONNECTION WHERE IT IS REQUIRED.
- SPRINKLERS PROTECTION RESIDENTIAL AREAS INSTALLED NEAR SPECIFIC HEAT SOURCE IDENTIFIED IN TABLE 8.3.2.5(D) SHALL BE INSTALLED IN ACCORDANCE WITH TABLE 8.3.2.5(C)
- FLOW SWITCHES AND CONTROL VALVES ARE TO BE CONNECTED TO FIRE ALARM SYSTEM (BY OTHERS)
- ALL PIPING IS ON THE FOLLOWS:
 - WET SYSTEMS: STEEL PIPE - ALL PIPE SCHED 40 BLACK WITH FLANGED, SCREWED, OR GROOVED ENDS, C-120
- PROVIDE WIRE GUARDS TO SPRINKLER HEADS WHERE SUSCEPTIBLE TO DAMAGE
- ALL HANGERS SHALL BE INSTALLED AND SPACED IN ACCORDANCE WITH NFPA 13 (2013)
- TEST/ DRAIN CONNECTION TO DISCHARGE TO A SUITABLE LOCATION TAMPERS AND WATER FLOW SWITCHES ARE PROVIDED, BUT WIRING BY OTHERS
- SPARE SPRINKLERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA ADJACENT TO THE MAIN RISER. THE STOCK OF SPARE SPRINKLERS SHALL INCLUDE ALL TYPES AND RATING INSTALLED AND SHALL BE AS FOLLOWS AND ASSOCIATED WRENCHES IN THE BUILDING SHALL BE FURNISH FOR THE CABINETS
 - FOR PROTECTED FACILITIES HAVING UNDER 300 SPRINKLERS- NO FEWER THAN SIX SPRINKLERS
 - FOR PROTECTED FACILITIES HAVING 300 TO 1000 SPRINKLERS- NO FEWER THAN 12 SPRINKLERS
 - FOR PROTECTED FACILITIES HAVING OVER 1000 SPRINKLERS- NO FEWER THAN 24 SPRINKLERS
- FIRE STOP IS REQUIRED WHERE PENETRATE IN A RATED WALL/ FLOOR AND MUST BE EQUAL TO THE RATING OF THE WALL/FLOOR BEING PENETRATED WITH U.L.C LISTED FIRE STOP. - OWNERS PROVIDE AND MAINTAIN ASSOCIATE
- PIPING IS TO BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13 FOR 24 HOURS AT 200 PSI AT THE SYSTEM RISER. ALL TESTING MUST BE WITNESSED AND SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE OWNER
- FIRE PROTECTION SYSTEM INSTALLER SHALL CO-ORDINATE WITH ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL DISCIPLINES
- WHERE PIPING PENETRATES RATED WALL AND FLOORS, THE PENETRATION SHALL BE FIRE STOPPED WITH A U.L.C LISTED FIRE STOP SYSTEM



No.	ISSUANCE	DATE
1	ISSUED FOR PERMIT	2024-09-06
2	ISSUED FOR TENDER	2024-11-15
3	RE-ISSUED FOR TENDER	2024-11-19

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PROJECT
PRE-ENGINEERED BUILDING

3265 PRINCIPAL'S ROAD MISSISSAUGA

TITLE
SITE PLAN AND GENERAL NOTES



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FP 1.1

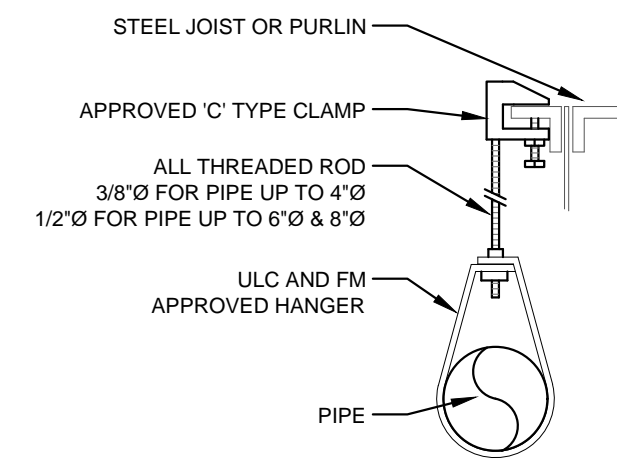


TABLE 9.2.2.1(A) MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN.) 2013 EDITION

	NOMINAL PIPE SIZE (IN.)											
	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
STEEL PIPE EXCEPT THREADED LIGHT WALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL STEEL PIPE	N/A	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A	N/A
COPPER TUBE	8-0	8-0	10-0	10-0	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A	N/A
DUCTILE IRON PIPE	N/A	N/A	N/A	N/A	N/A	15-0	N/A	15-0	N/A	15-0	15-0	15-0

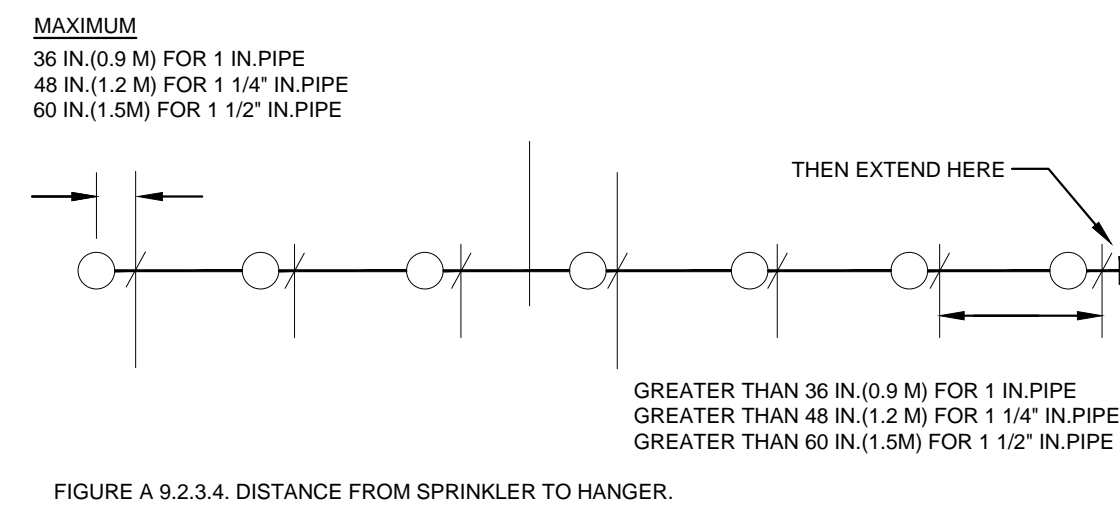


FIGURE A 9.2.3.4. DISTANCE FROM SPRINKLER TO HANGER.

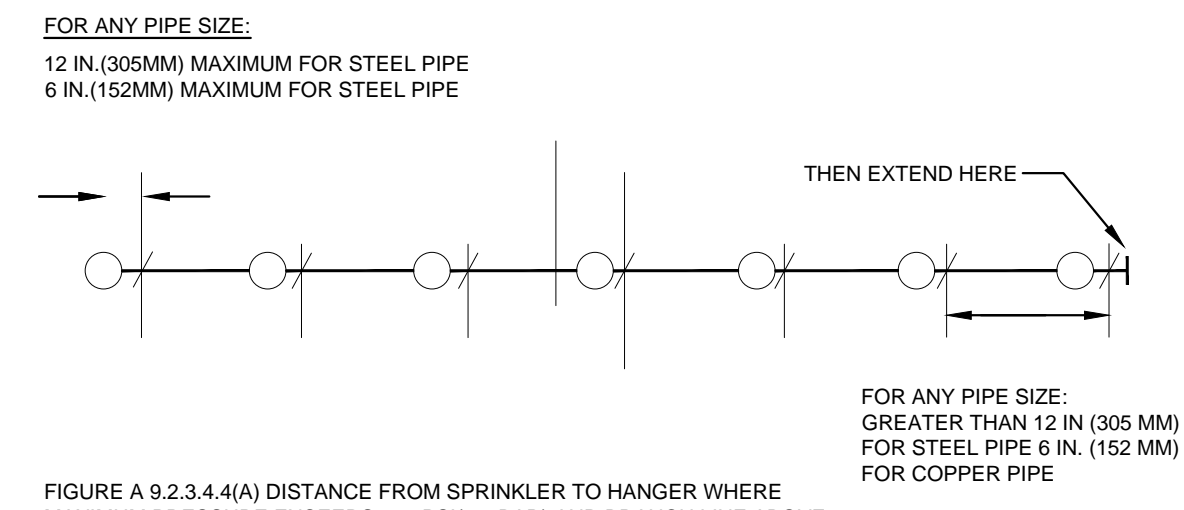
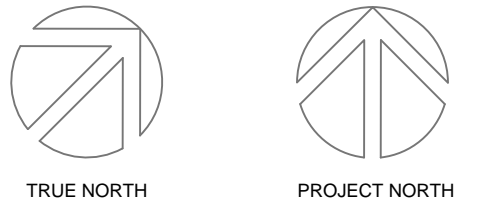


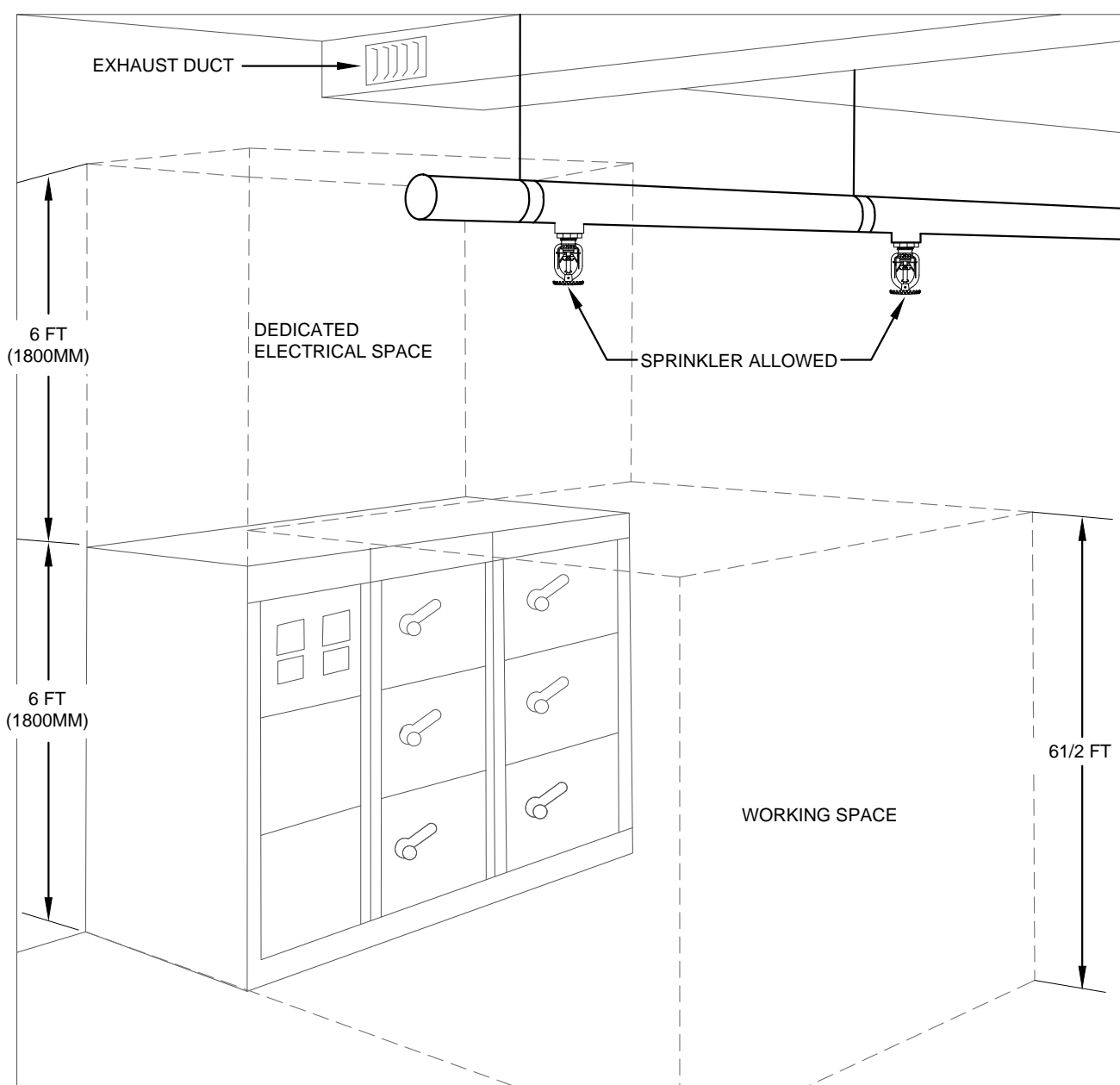
FIGURE A 9.2.3.4(A) DISTANCE FROM SPRINKLER TO HANGER WHERE MAXIMUM PRESSURE EXCEEDS 100 PSI (6.9 BAR) AND BRANCH LINE ABOVE CEILING SUPPLIES PENDENT SPRINKLERS BELOW CEILING.



No.	ISSUANCE	DATE
1	ISSUED FOR PERMIT	2024-09-06
2	ISSUED FOR TENDER	2024-11-15
3	RE-ISSUED FOR TENDER	2024-11-19

1 TYPICAL HANGER INSTALLATION

FP 2.1 SCALE: N.T.S.



- SPRINKLERS AND SPRINKLER PIPING IS PERMITTED IN AND IS PERMITTED TO PASS THROUGH AN ELECTRICAL ROOM AS LONG AS THE PIPING IS NOT WITHIN THE "DEDICATED ELECTRICAL SPACE"
- DEDICATED ELECTRICAL SPACE IS DEFINED AS THE SPACE EQUAL TO THE WIDTH AND THE DEPTH OF THE EQUIPMENT EXTENDING FROM THE FLOOR TO A HEIGHT OF 1.8M ABOVE THE EQUIPMENT OR STRUCTURAL CEILING, WHICHEVER IS LOWER.
- FOREIGN (SPRINKLER PIPING) SYSTEMS ARE ALLOWED IN THE AREA ABOVE THE DEDICATED ELECTRICAL SPACE AS LONG AS THE ELECTRICAL EQUIPMENT IS PROPERLY PROTECTED AGAINST LEAKS OR BREAKS IN THE FOREIGN SYSTEM.
- SO THE SPRINKLER PIPING CAN RUN ABOVE THE DEDICATED ELECTRICAL SPACE 1.8M ABOVE EQUIPMENT AS LONG AS THE EQUIPMENT BELOW IS PROTECTED FROM LEAKS.
- SPRINKLERS SHALL NOT BE REQUIRED IN ELECTRICAL ROOMS WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET.
 1. THE ROOM IS DEDICATED TO ELECTRICAL EQUIPMENT ONLY.
 2. ONLY DRY-TYPE OR LIQUID-TYPE WITH LISTED K-CLASS FLUID ELECTRICAL EQUIPMENT IS USED.
 3. EQUIPMENT IS INSTALLED IN A 2 HR FIRE RATED ENCLOSURE INCLUDING PROTECTION FOR PENETRATIONS.
 4. STORAGE IS NOT PERMITTED IN THE ROOM.

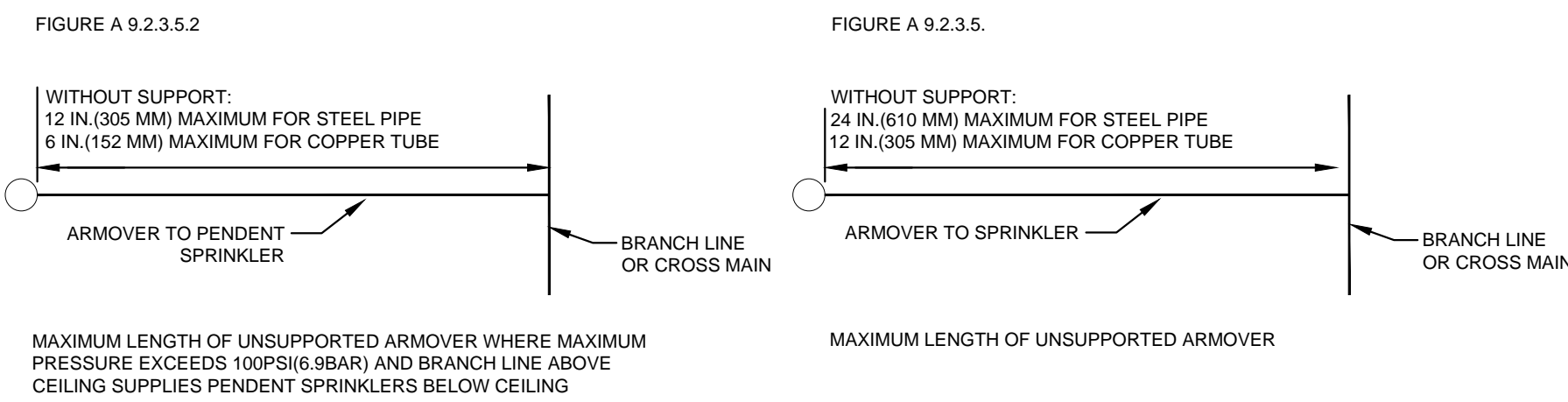


FIGURE A 9.2.3.5.2 WITHOUT SUPPORT: 12 IN. (305 MM) MAXIMUM FOR STEEL PIPE, 6 IN. (152 MM) MAXIMUM FOR COPPER TUBE. MAXIMUM LENGTH OF UNSUPPORTED ARMOVER WHERE MAXIMUM PRESSURE EXCEEDS 100PSI (6.9BAR) AND BRANCH LINE ABOVE CEILING SUPPLIES PENDENT SPRINKLERS BELOW CEILING.

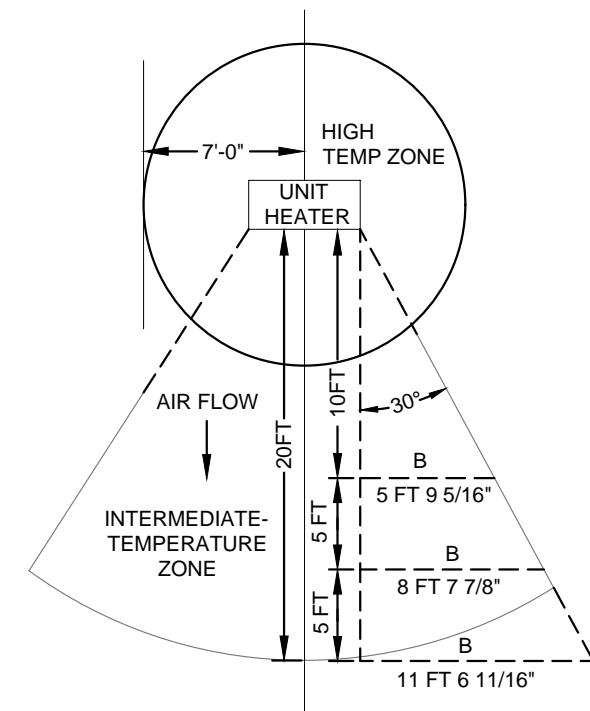
FIGURE A 9.2.3.5. WITHOUT SUPPORT: 24 IN. (610 MM) MAXIMUM FOR STEEL PIPE, 12 IN. (305 MM) MAXIMUM FOR COPPER TUBE. MAXIMUM LENGTH OF UNSUPPORTED ARMOVER.

2 UNSUPPORTED ARMOVER LENGTH

FP 2.1 SCALE: N.T.S.

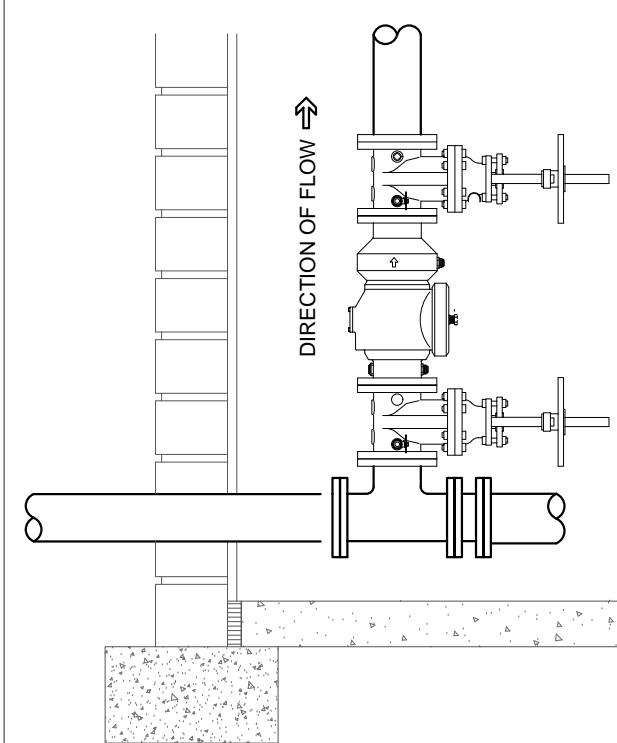
3 SPRINKLERS WITHIN ELECTRICAL ROOM

FP 2.1 SCALE: N.T.S.



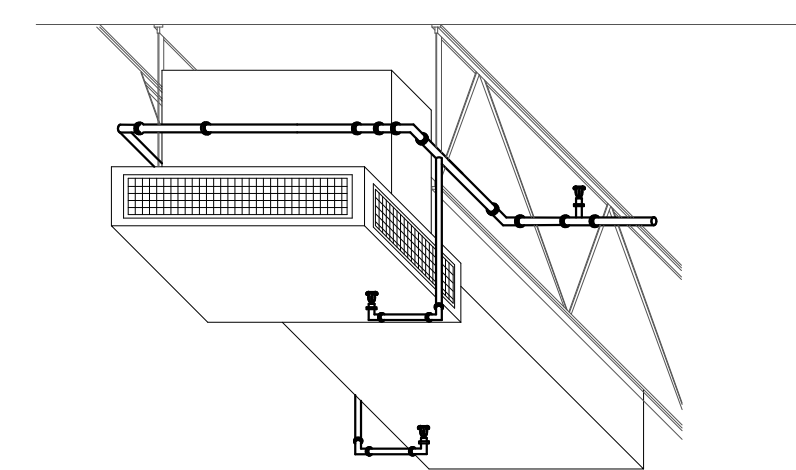
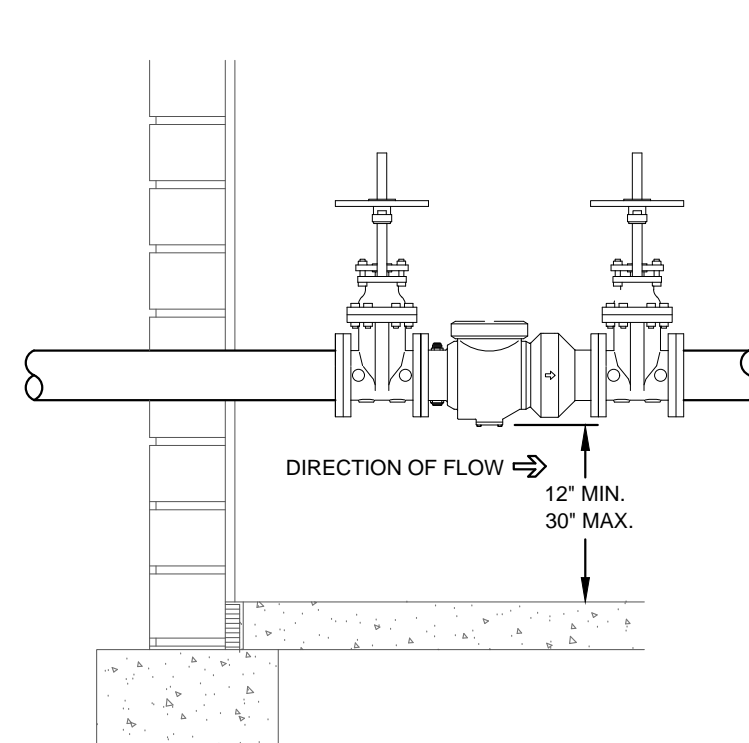
- NOTE:
1. PROVIDE ADDITIONAL SPRINKLER HEADS FOR MECHANICAL ROOMS TO ACCOMMODATE DUCTWORKS.
 2. HIGH TEMPERATURE RATING SPRINKLER TO BE INSTALLED WITHIN 7FT. OF UNIT HEATER.
 3. ALL OF SPRINKLERS ON MECHANICAL ROOMS TO BE CW 1" OUTLET.
 4. SPRINKLER BRANCH LINE TO PROVIDE SPRINKLER PROTECTION (HEADS CW WIRE GUARDS) LOCATED BELOW ALL EXPOSED DUCTWORK AS REQUIRED TO MEET NFPA 13 AND LOCAL AUTHORITY STANDARDS AND REQUIREMENTS, DETERMINE EXTENT OF COVERAGE ON SITE AND EXTEND PIPING AS REQUIRED.

INDOOR VERTICAL INSTALLATION



WILKINS MODEL 350A OR EQUIVALENT

INDOOR HORIZONTAL INSTALLATION



- NOTE:
- UPRIGHT SPRINKLERS SHALL BE INSTALLED UNDER ALL MECHANICAL DUCTS THAT EXCEED 4 FT. IN WIDTH.
 - UPRIGHT SPRINKLER UNDER MECHANICAL MUST BE INSTALLED AT 12" FROM THE EDGE OF THE UNIT

4 TEMPERATURE ZONE AT UNIT HEATER (FIGURE 8.3.2.5)

FP 2.1 SCALE: N.T.S.

5 6" DOUBLE CHECK DETECTOR ASSEMBLY

FP 2.1 SCALE: N.T.S.

6 SPRINKLER UNDER DUCTS

FP 2.1 SCALE: N.T.S.

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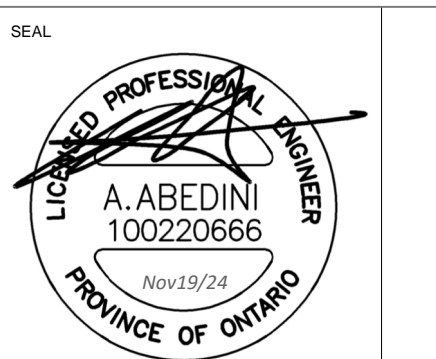


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PRE-ENGINEERED BUILDING
3265 PRINCIPAL'S ROAD MISSISSAUGA

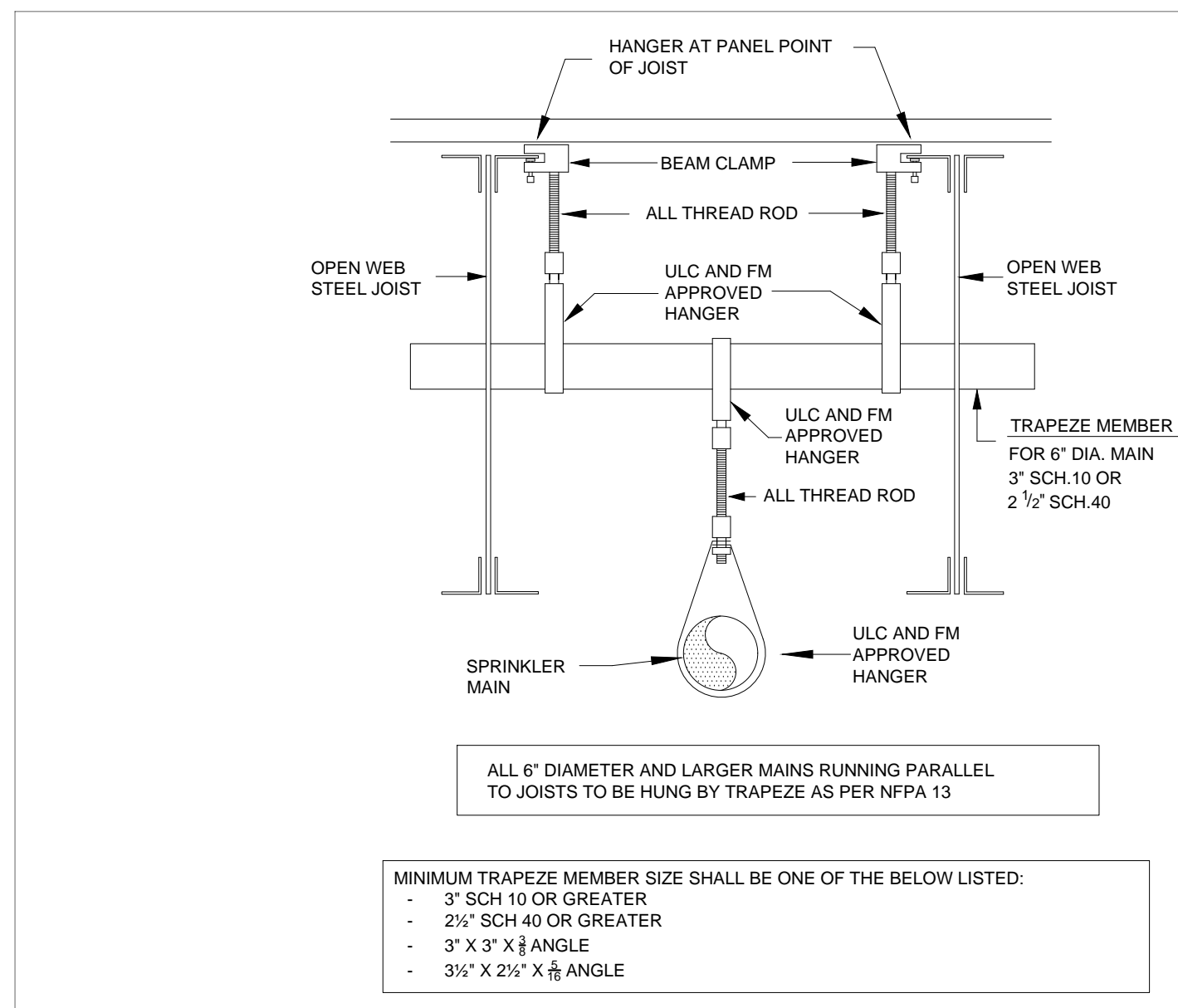
NFPA FIGURES AND GENERAL NOTES

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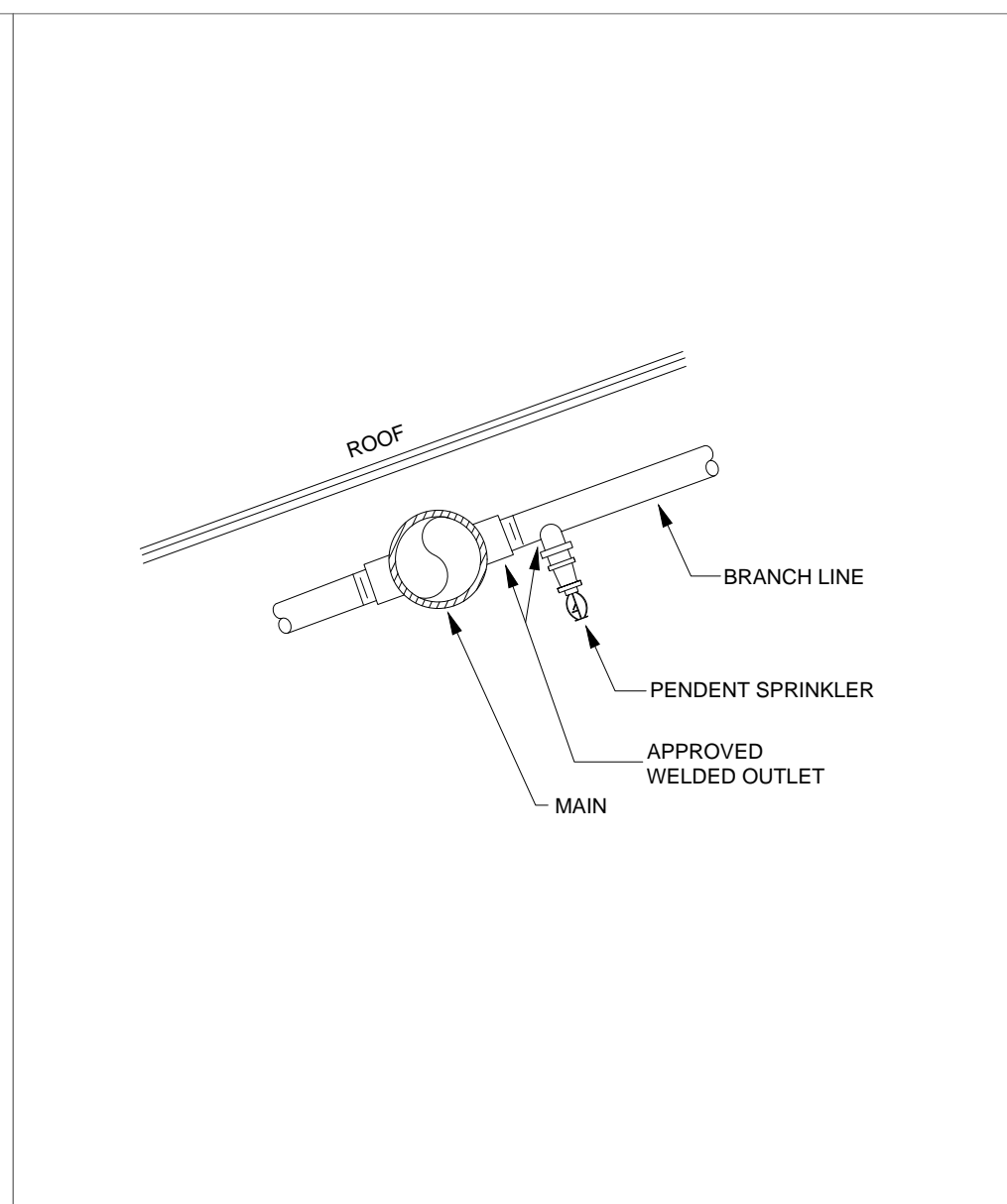


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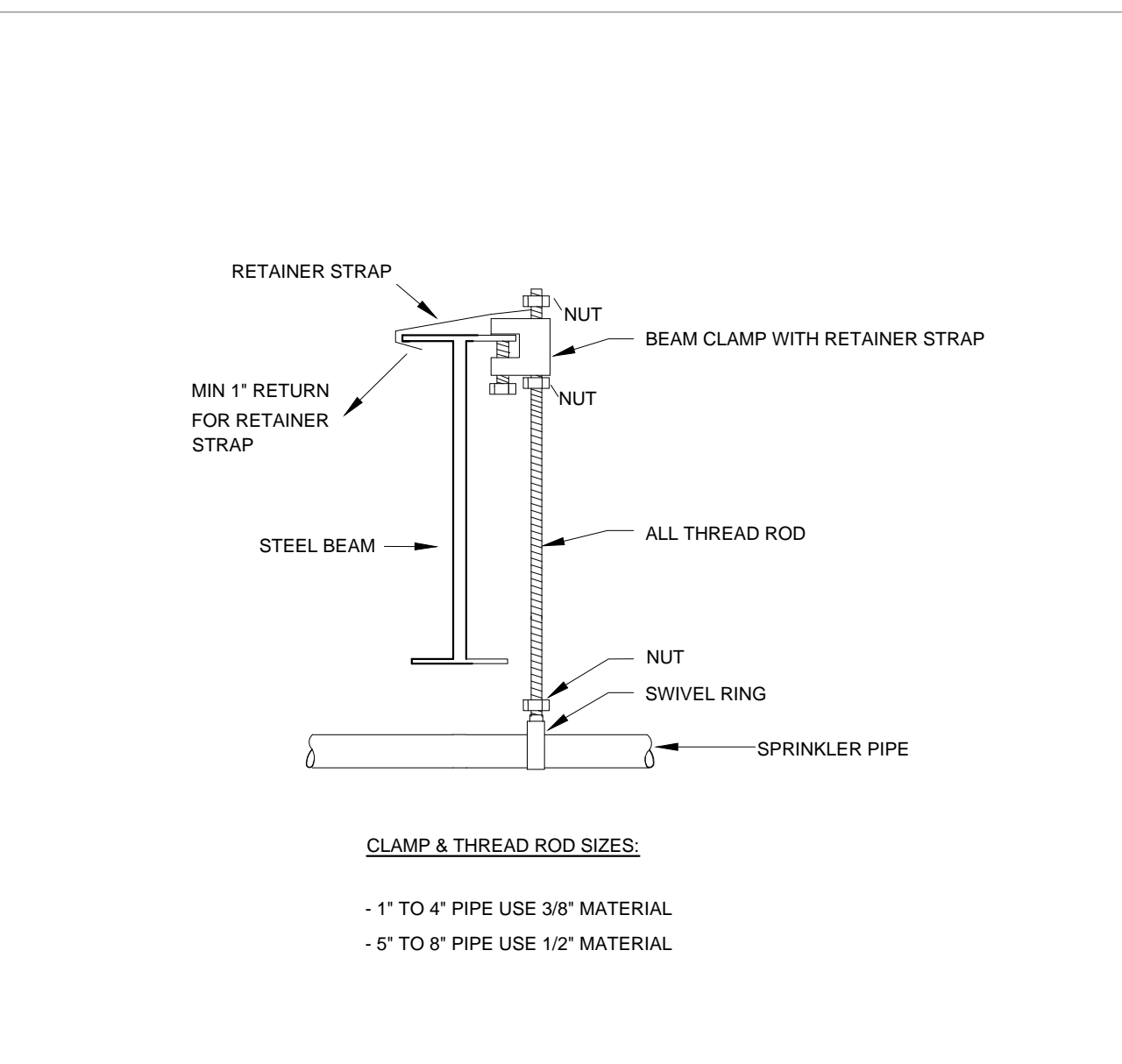
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PROJECT NO: 2023-0059	
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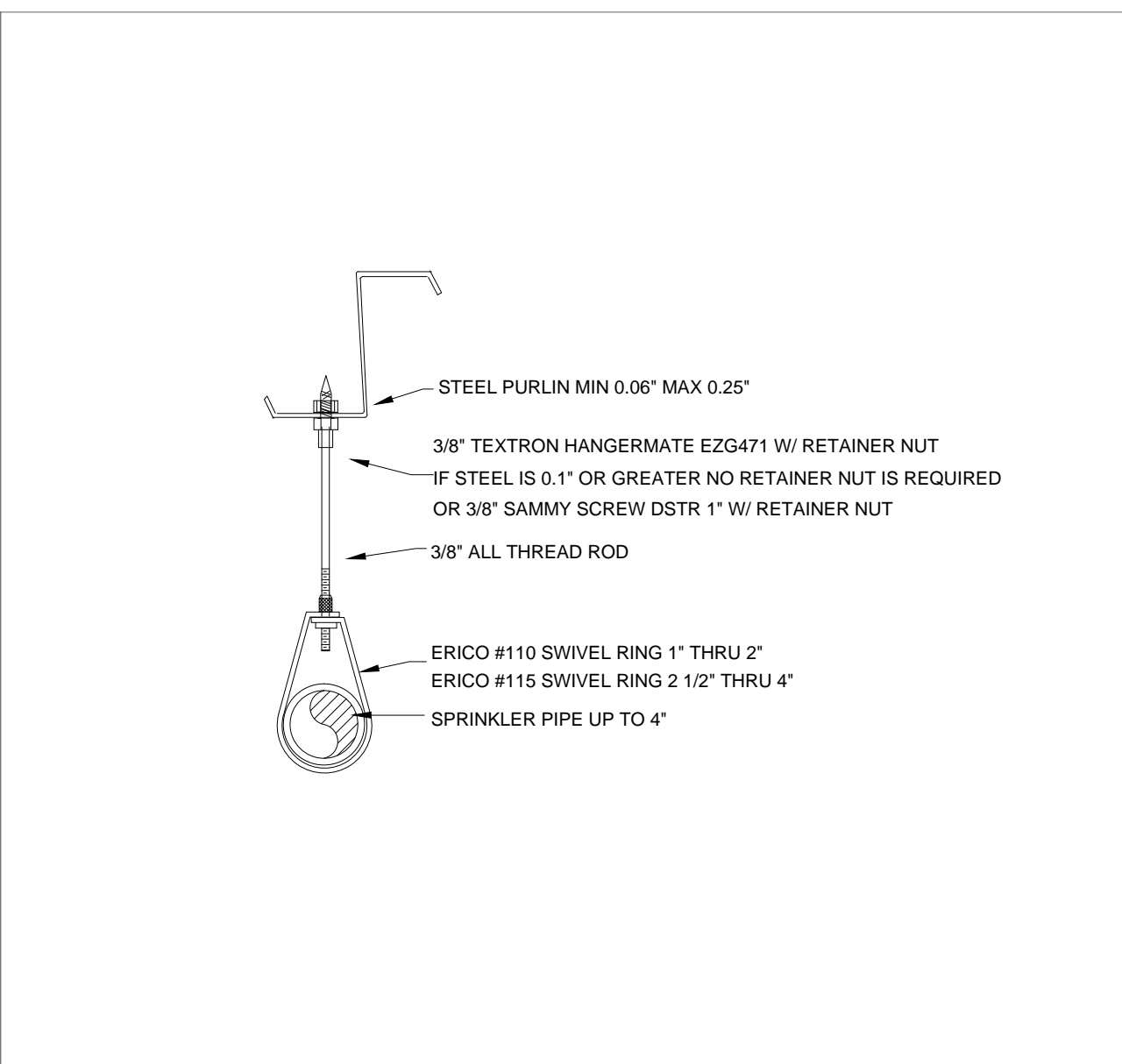
7 MAIN TRAPEZE HANGER DETAIL (PIPE PARALLEL TO JOISTS)
 FP 2.2 SCALE: N.T.S. (AS PER NFPA13)



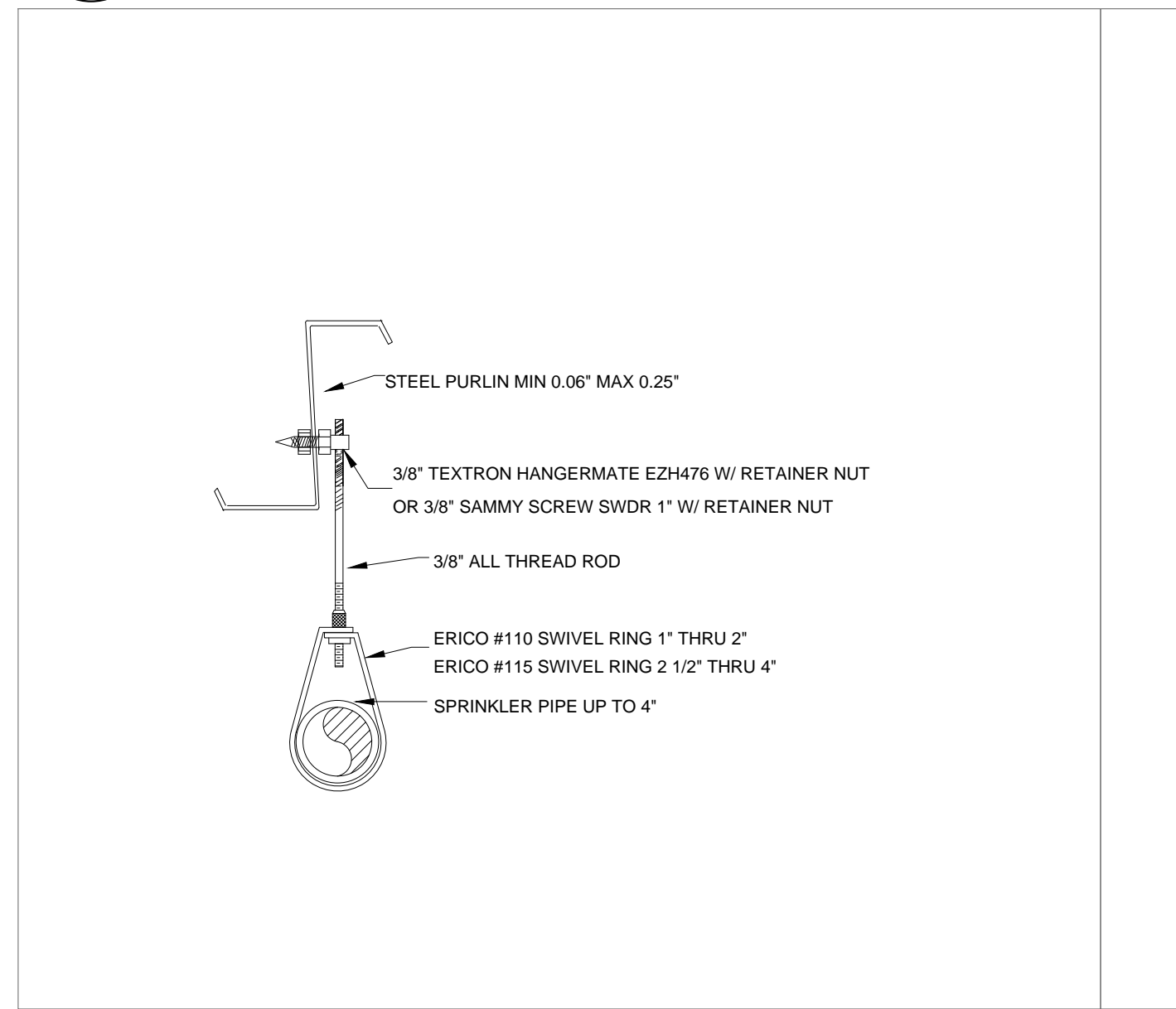
8 LINE RISER DETAILS
 FP 2.2 SCALE: N.T.S.



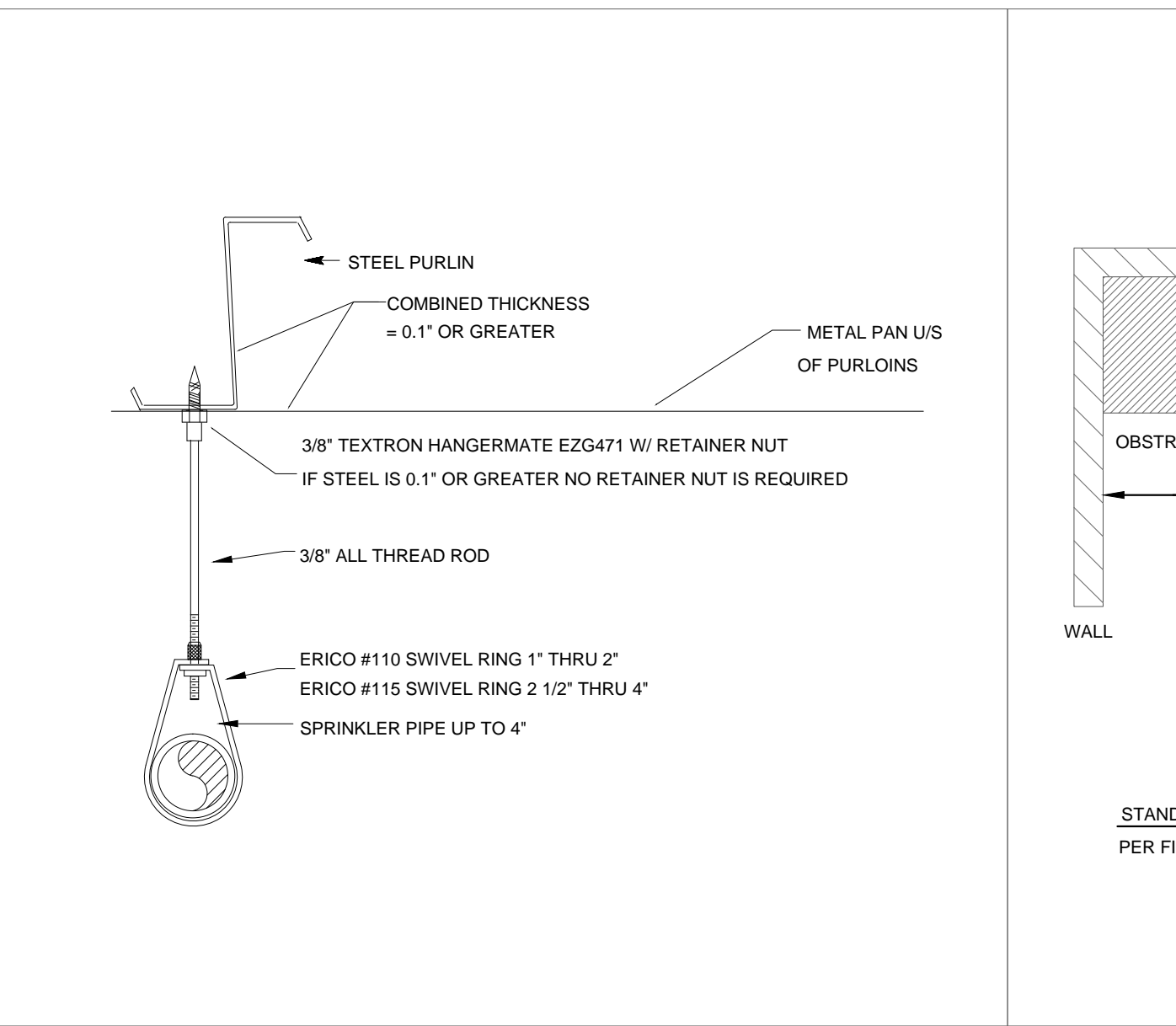
9 BEAM CLAMP HANGER
 FP 2.2 SCALE: N.T.S.



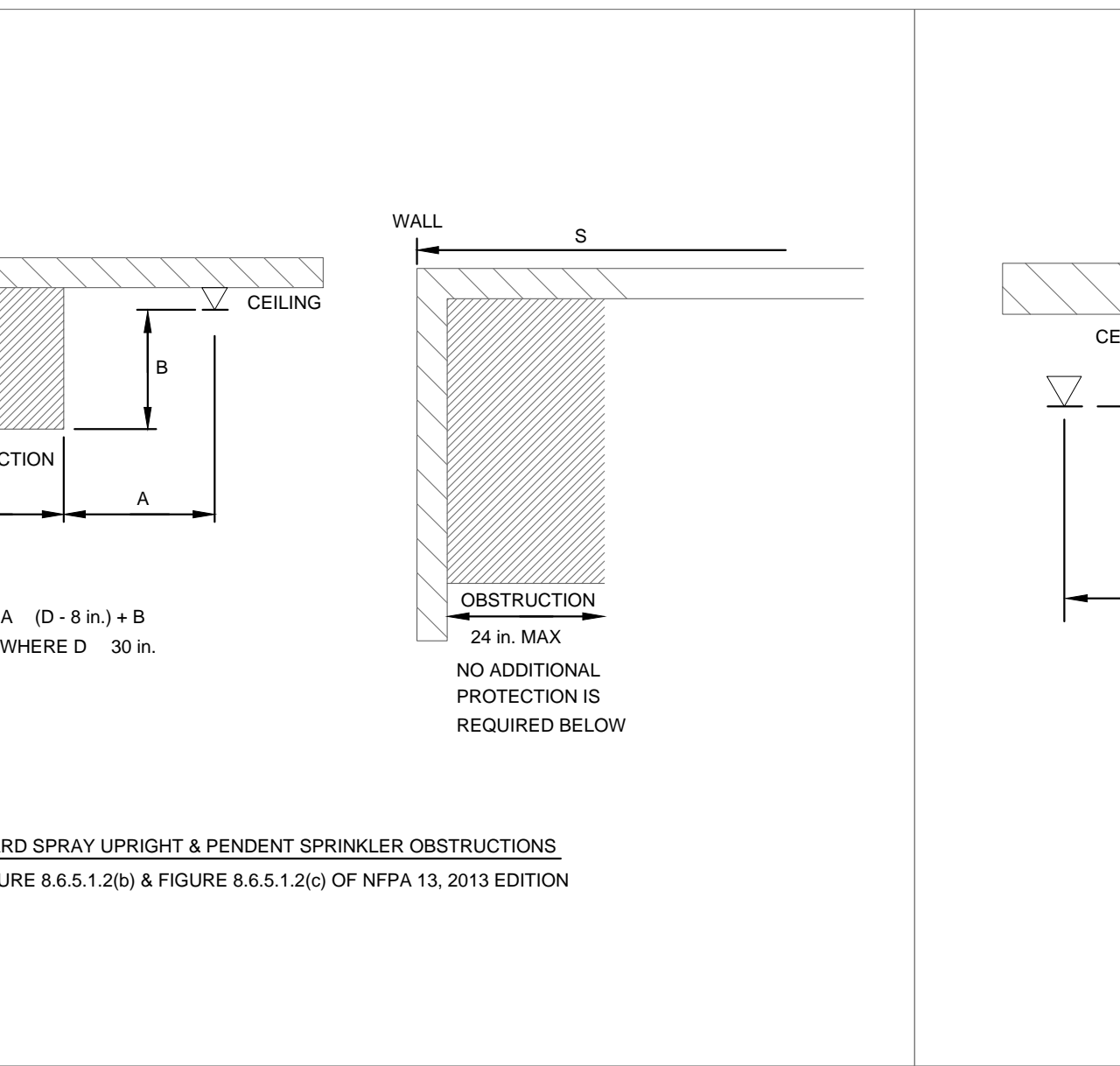
10 TYPICAL PIPE HANGER DETAILS-1
 FP 2.2 SCALE: N.T.S.



11 TYPICAL PIPE HANGER DETAILS-2
 FP 2.2 SCALE: N.T.S.



12 TYPICAL PIPE HANGER DETAILS-3
 FP 2.2 SCALE: N.T.S.



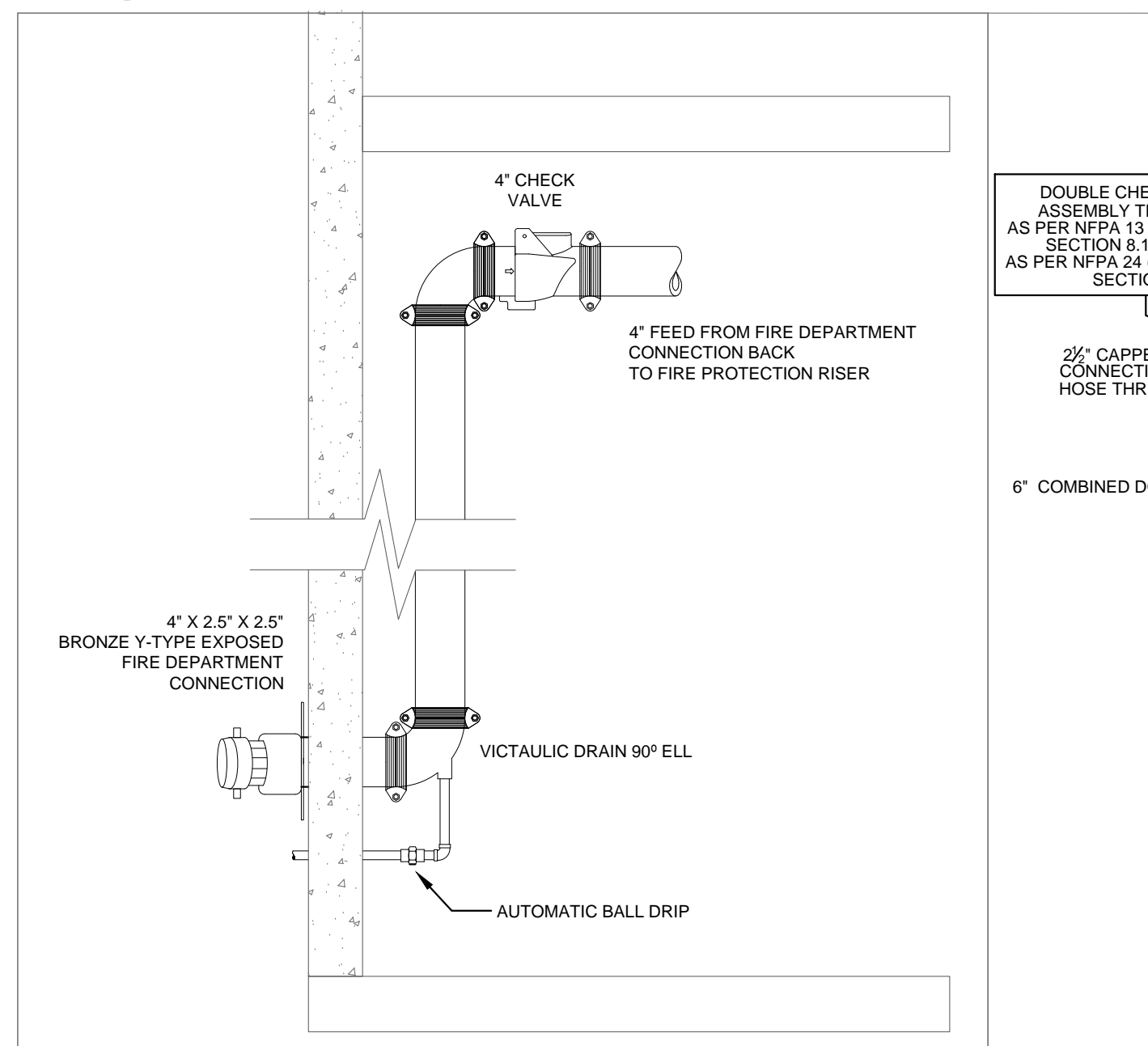
13 OBSTRUCTIONS AGAINST WALL
 FP 2.2 SCALE: N.T.S. (AS PER NFPA13)

DISTANCE FROM SPRINKLER TO SIDE OF CEILING OBSTRUCTION (DIMENSION A)	MAX DISTANCE OF DEFLECTOR ABOVE OBSTRUCTION (DIMENSION B)
LESS THAN 1'-0"	0"
1'-0" TO LESS THAN 1'-6"	2 1/2"
1'-6" TO LESS THAN 2'-0"	3 1/2"
2'-0" TO LESS THAN 2'-6"	5 1/2"
2'-6" TO LESS THAN 3'-0"	7 1/2"
3'-0" TO LESS THAN 3'-6"	9 1/2"

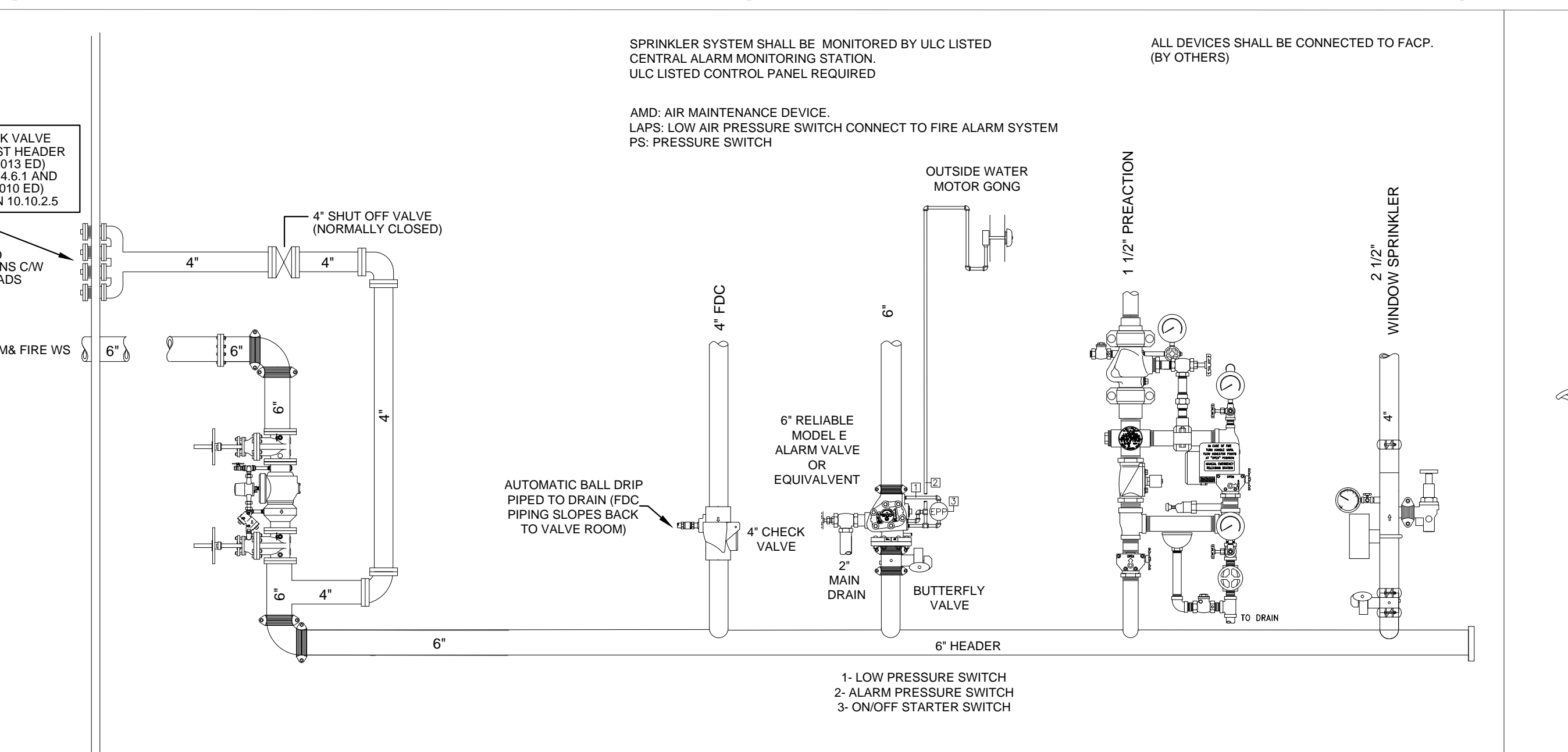
(DIMENSION A)	(DIMENSION B)
3'-6" TO LESS THAN 4'-0"	12"
4'-0" TO LESS THAN 4'-6"	14"
4'-6" TO LESS THAN 5'-0"	16"
5'-0" TO LESS THAN 5'-6"	18"
5'-6" TO LESS THAN 6'-0"	20"
6'-0" TO LESS THAN 6'-6"	24"
6'-6" TO LESS THAN 7'-0"	30"
7'-0" TO LESS THAN 7'-6"	35"

STANDARD SPRAY UPRIGHT & PENDENT SPRINKLER OBSTRUCTIONS PER TABLE 8.6.5.1.2 & FIGURE 8.6.5.1.2(a) OF NFPA 13, 2013 EDITION

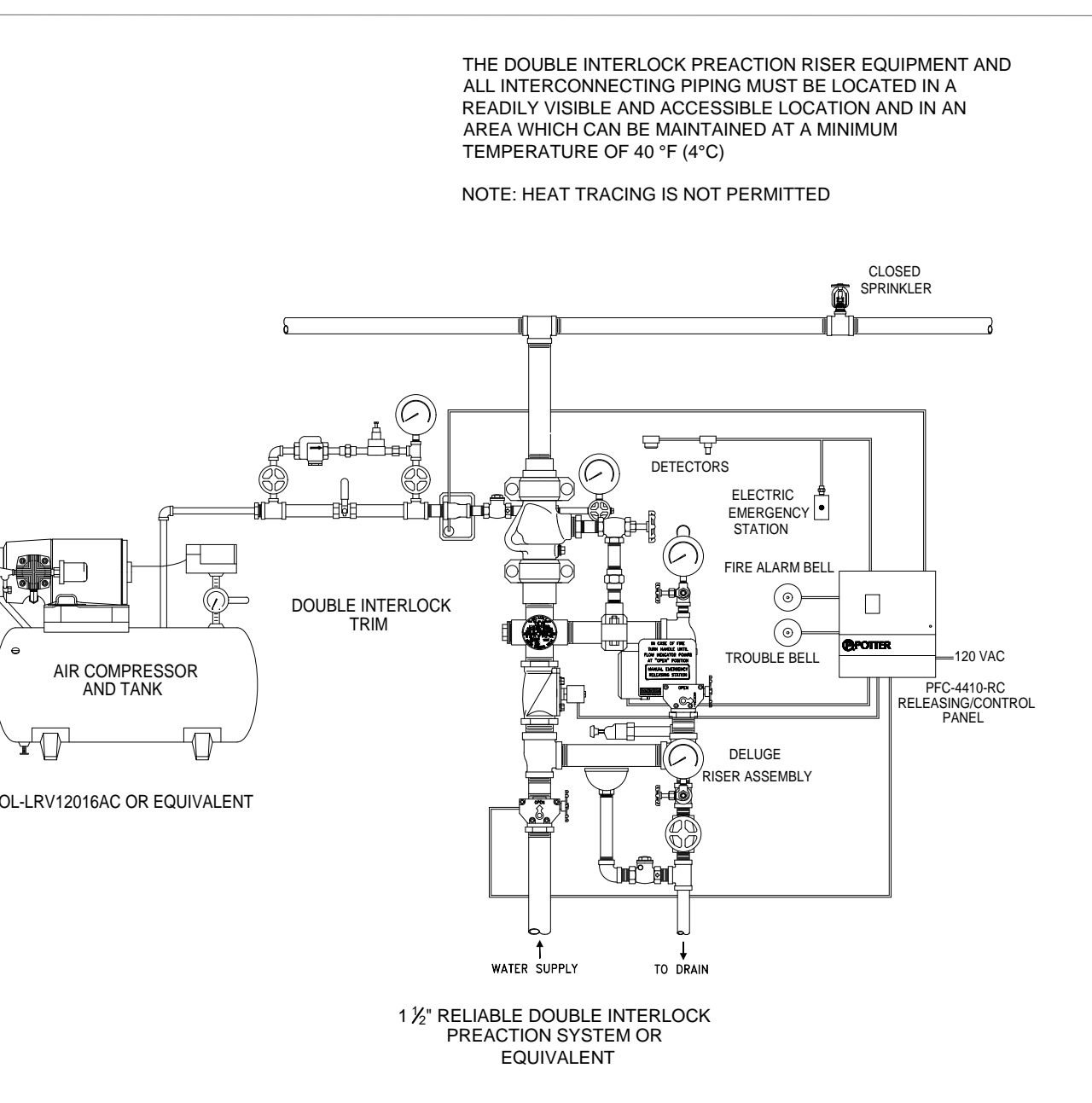
14 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE
 FP 2.2 SCALE: N.T.S.



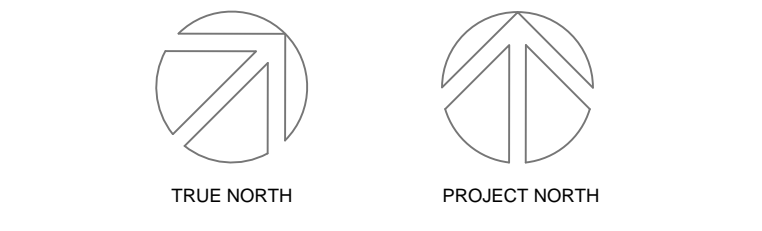
15 FIRE DEPARTMENT CONNECTION
 FP 2.2 SCALE: N.T.S.



16 SPRINKLER HEADERS
 FP 2.2 SCALE: N.T.S.



17 DOUBLE INTERLOCK PREACTION SYSTEM
 FP 2.2 SCALE: N.T.S.



No.	ISSUANCE	DATE
1	ISSUED FOR PERMIT	2024-09-06
2	ISSUED FOR TENDER	2024-11-15
3	RE-ISSUED FOR TENDER	2024-11-19

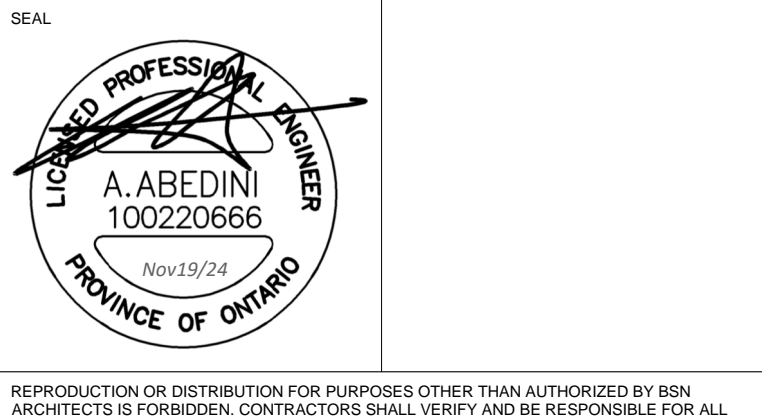
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PROJECT:
 PRE-ENGINEERED BUILDING
 3265 PRINCIPAL'S ROAD MISSISSAUGA

TITLE:
 NFPA FIGURES AND GENERAL NOTES

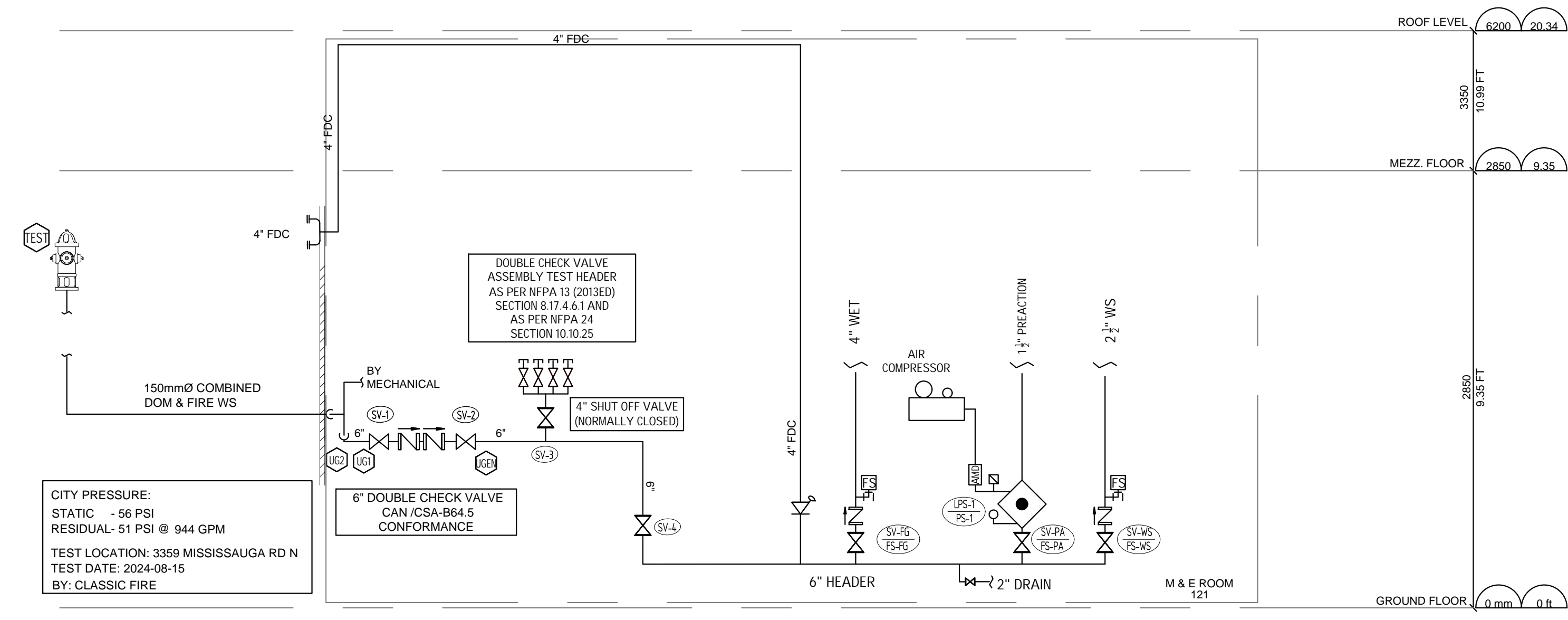


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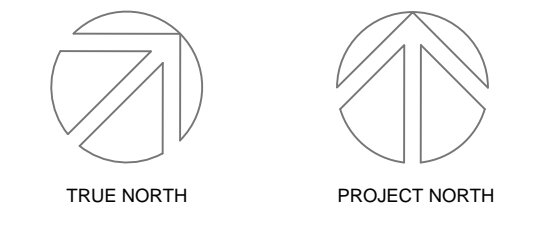
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FIRE PROTECTION SYSTEM SUPERVISED VALVE SCHEDULE		
VALVE NUMBER	DESCRIPTION	LOCATION
SV-1	DOUBLE CHECK VALVE ASSEMBLY IN	M&E ROOM
SV-2	DOUBLE CHECK VALVE ASSEMBLY OUT	M&E ROOM
SV-3	SHUT - OFF VALVE DCVA TEST	M&E ROOM
SV-4	MAIN SHUT - OFF SPRINKLER HEADER	M&E ROOM
SV-FG	WET SPR. SYSTEM ISOLATION (GROUND & MEZZ FLOOR)	M&E ROOM
SV-PA	PREACTION SPR. SYSTEM ISOLATION (GROUND FLOOR)	M&E ROOM
SV-WS	WINDOW SPR. SYSTEM ISOLATION (GROUND FLOOR)	M&E ROOM
LPS-1	LOW AIR PRESSURE GROUND LEVEL (PREACTION)	M&E ROOM

FIRE PROTECTION SYSTEM FLOW SWITCH SCHEDULE		
VALVE NUMBER	DESCRIPTION	LOCATION
FS-FG	WET SPR. SYSTEM FLOW SWITCH (GROUND & MEZZ FLOOR)	M&E ROOM
FS-PA	PREACTION SPR. SYSTEM FLOW SWITCH	M&E ROOM
FS-WS	WINDOW SPR. SYSTEM FLOW SWITCH	M&E ROOM
PS-1	WATER FLOW PS GROUND LEVEL (PREACTION)	M&E ROOM



CITY PRESSURE:
 STATIC - 56 PSI
 RESIDUAL- 51 PSI @ 944 GPM
 TEST LOCATION: 3359 MISSISSAUGA RD N
 TEST DATE: 2024-08-15
 BY: CLASSIC FIRE



No.	ISSUANCE	DATE
1	ISSUED FOR PERMIT	2024-09-06
2	ISSUED FOR TENDER	2024-11-15
3	RE-ISSUED FOR TENDER	2024-11-19

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 3265 PRINCIPAL'S ROAD MISSISSAUGA

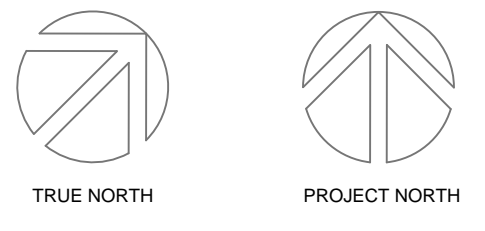
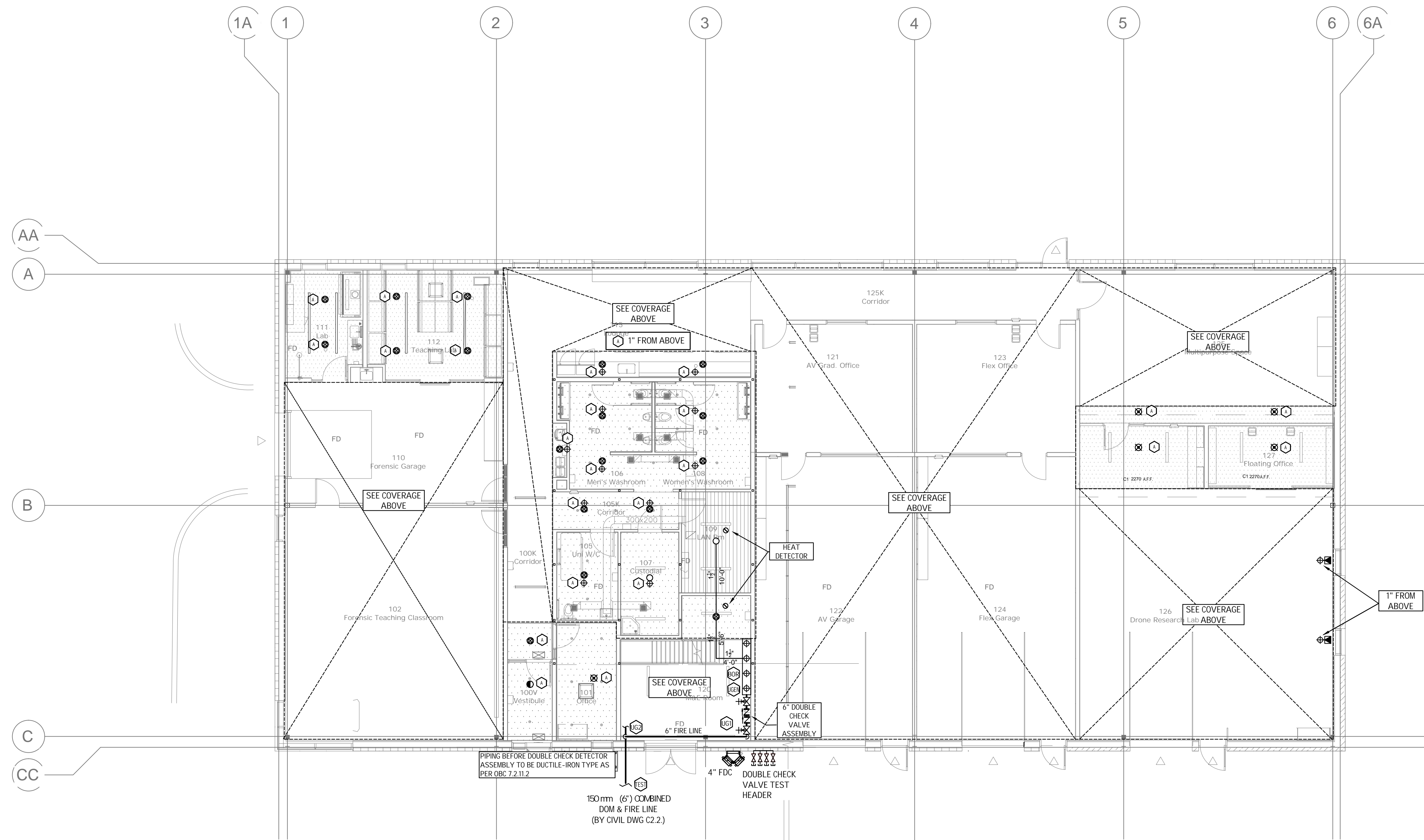
TITLE
 RISER SCHEMATIC & SUPERVISED SCHEDULE

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1	ISSUED FOR REVIEW	2024-09-03
2	ISSUED FOR PERMIT	2024-09-06
3	ISSUED FOR TENDER	2024-11-15
4	RE-ISSUED FOR TENDER	2024-11-19

SPRINKLER HEAD COUNT & LEGEND

SYMBOL	DESCRIPTION	QTY.
○	PENDENT S/C	2
⊗	CONCEALED PENDENT E/C	5
⊗	CONCEALED PENDENT S/C(VKS.4)	18
●	DRY CONCEALED PENDENT S/C	1
⊕	WINDOW SPRINKLERS HORIZONTAL SIDEWALL	2

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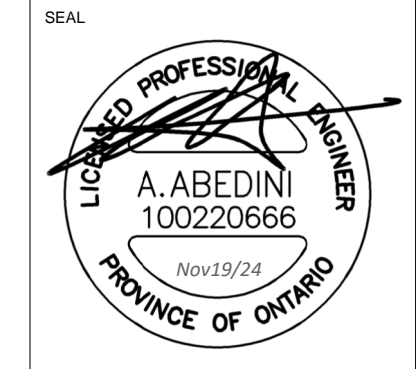


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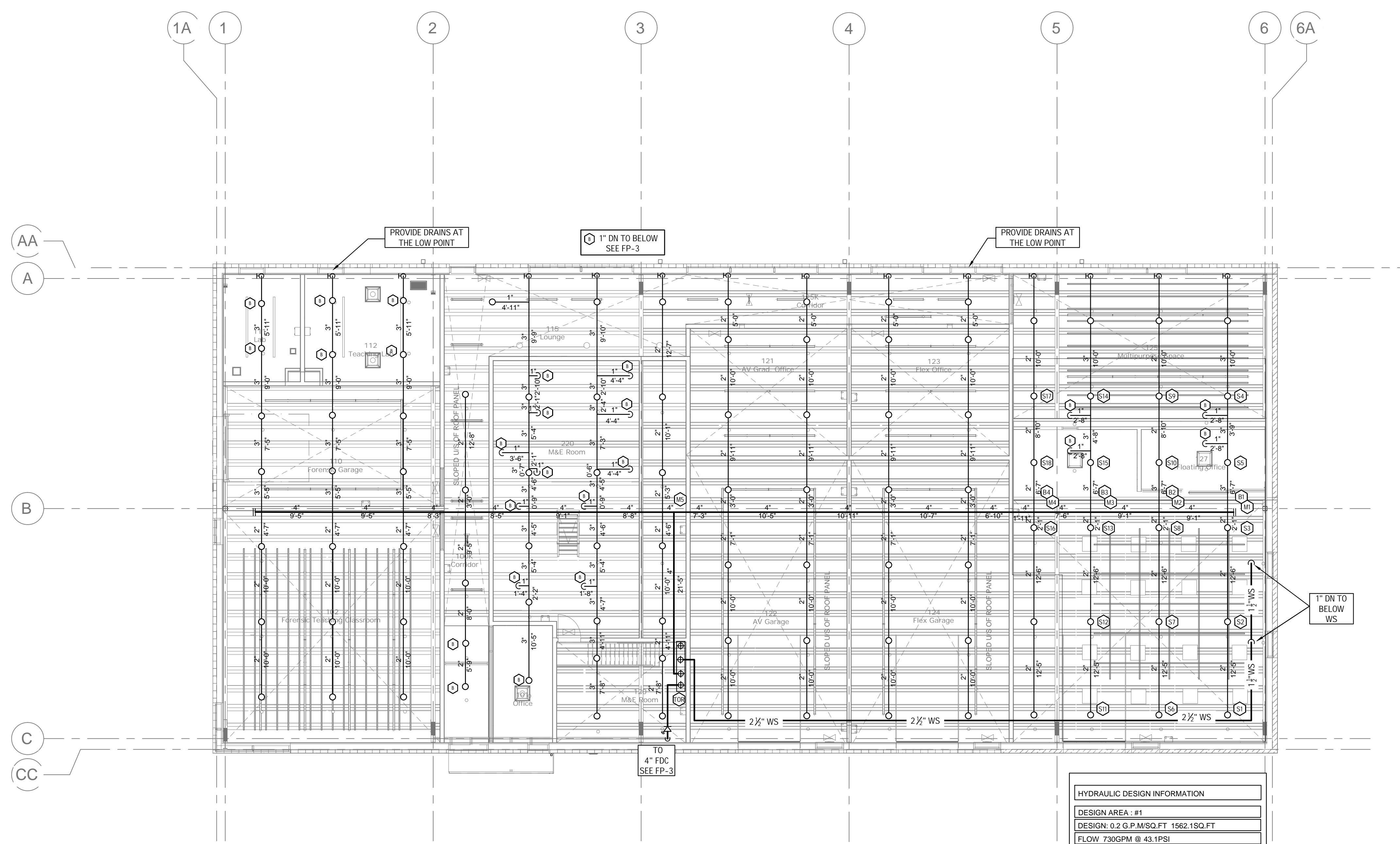
TITLE
 PROPOSED SPRINKLER LAYOUT
 - GROUND FLOOR

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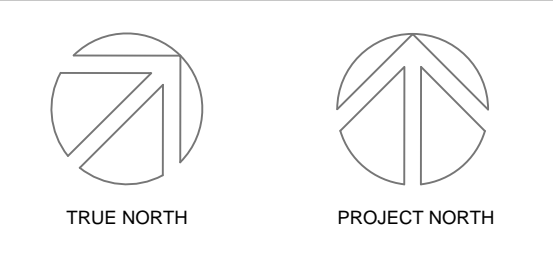


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DATE : AUG 2024	FP 3
PROJECT NO : 2023-0059	
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HYDRAULIC DESIGN INFORMATION	
DESIGN AREA : #1	
DESIGN : 0.2 G.P./MSQ.FT 1562.1SQ.FT	
FLOW 730GPM @ 43.1PSI	
INCLUDES OUTSIDE 250 GPM HOSE ALLOWANCE	
18 SPRINKLERS FLOWING	



No.	ISSUANCE	DATE
1	ISSUED FOR REVIEW	2024-09-03
2	ISSUED FOR PERMIT	2024-09-06
3	ISSUED FOR TENDER	2024-11-15
4	RE-ISSUED FOR TENDER	2024-11-19

SPRINKLER HEAD COUNT & LEGEND

SYMBOL	THREAD SIZE	K-FACTOR	TEMP. RATING	STYLE(MODEL)	RESPONSE	
					Q/R	QTY
○	1/2"	5.6	155°F	PENDENT S/C	O/R	98
⊗	1/2"	11.2	165°F	CONCEALED PENDENT S/C	O/R	-
⊗	1/2"	5.6	155°F	CONCEALED PENDENT S/CS(VKS.6)	O/R	-
●	1"	5.6	155°F	DRY CONCEALED PENDENT S/C	O/R	-
▽	1/2"	5.6	155°F	WINDOW SPRINKLERS HORIZONTAL SIDEWALL	F/R	-

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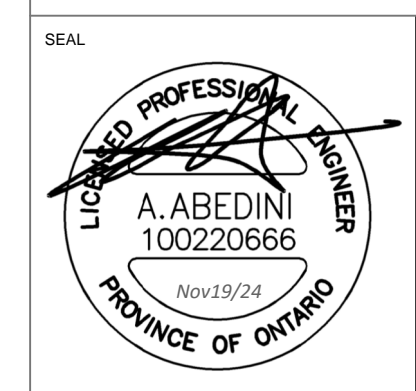


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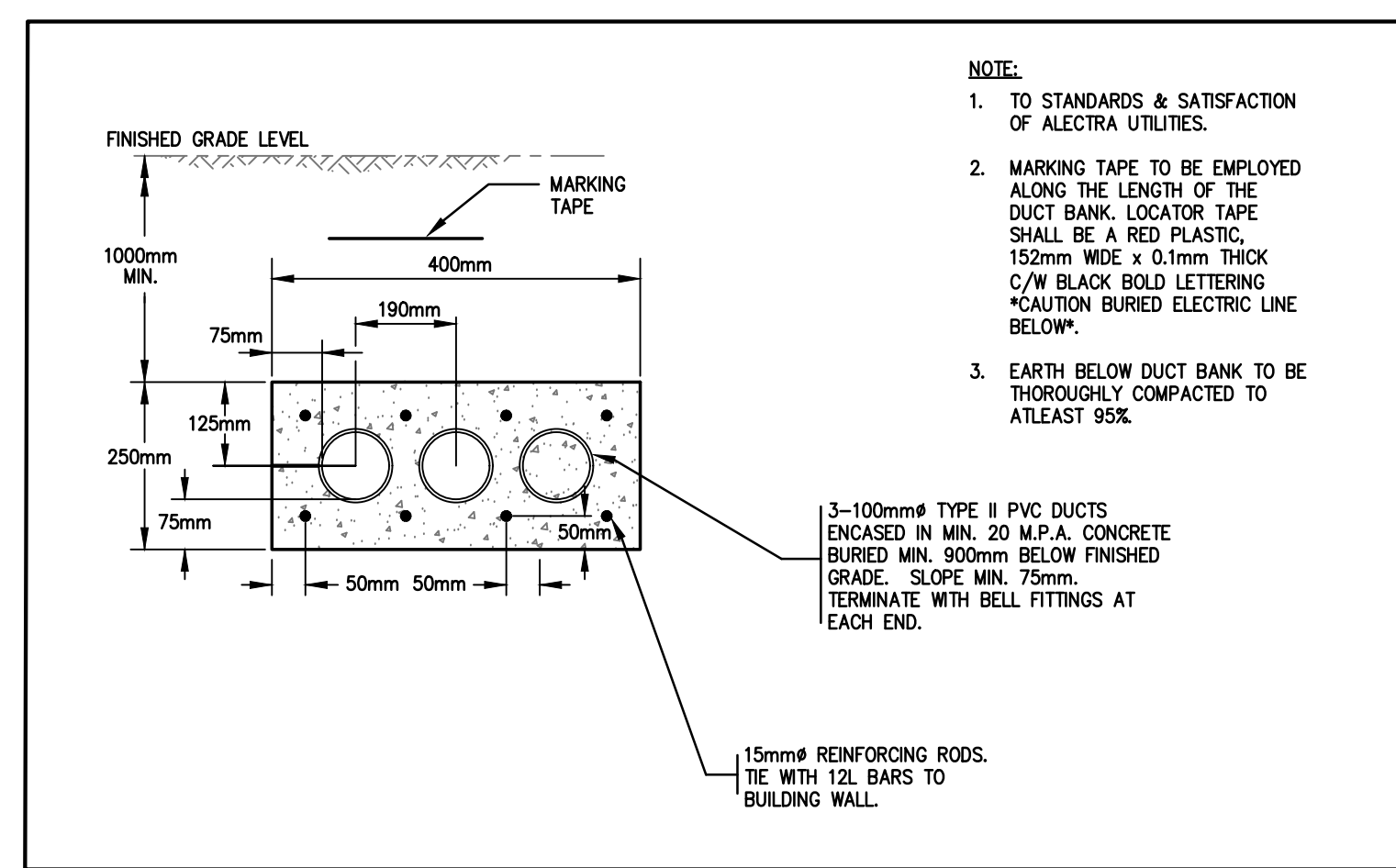
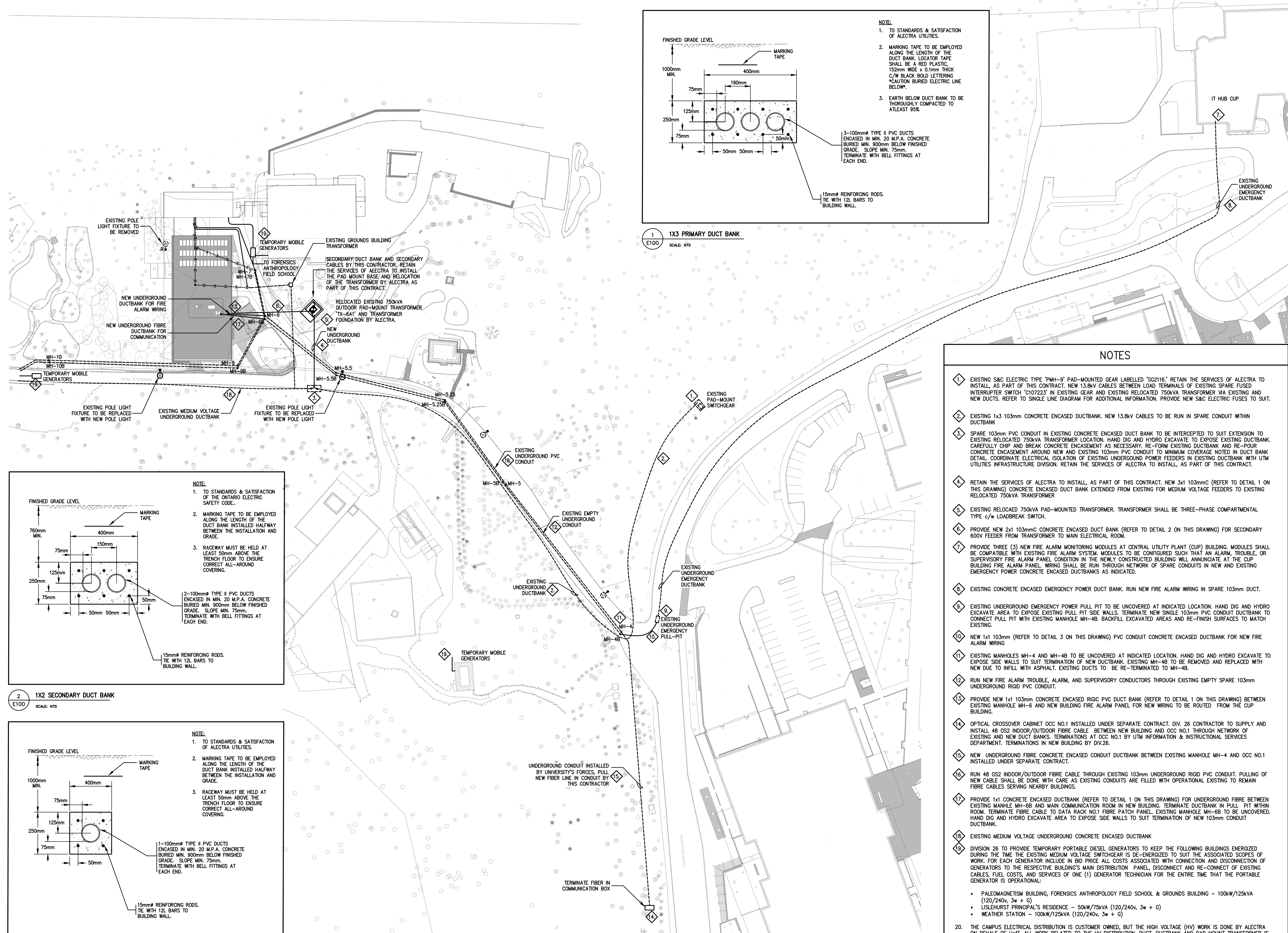
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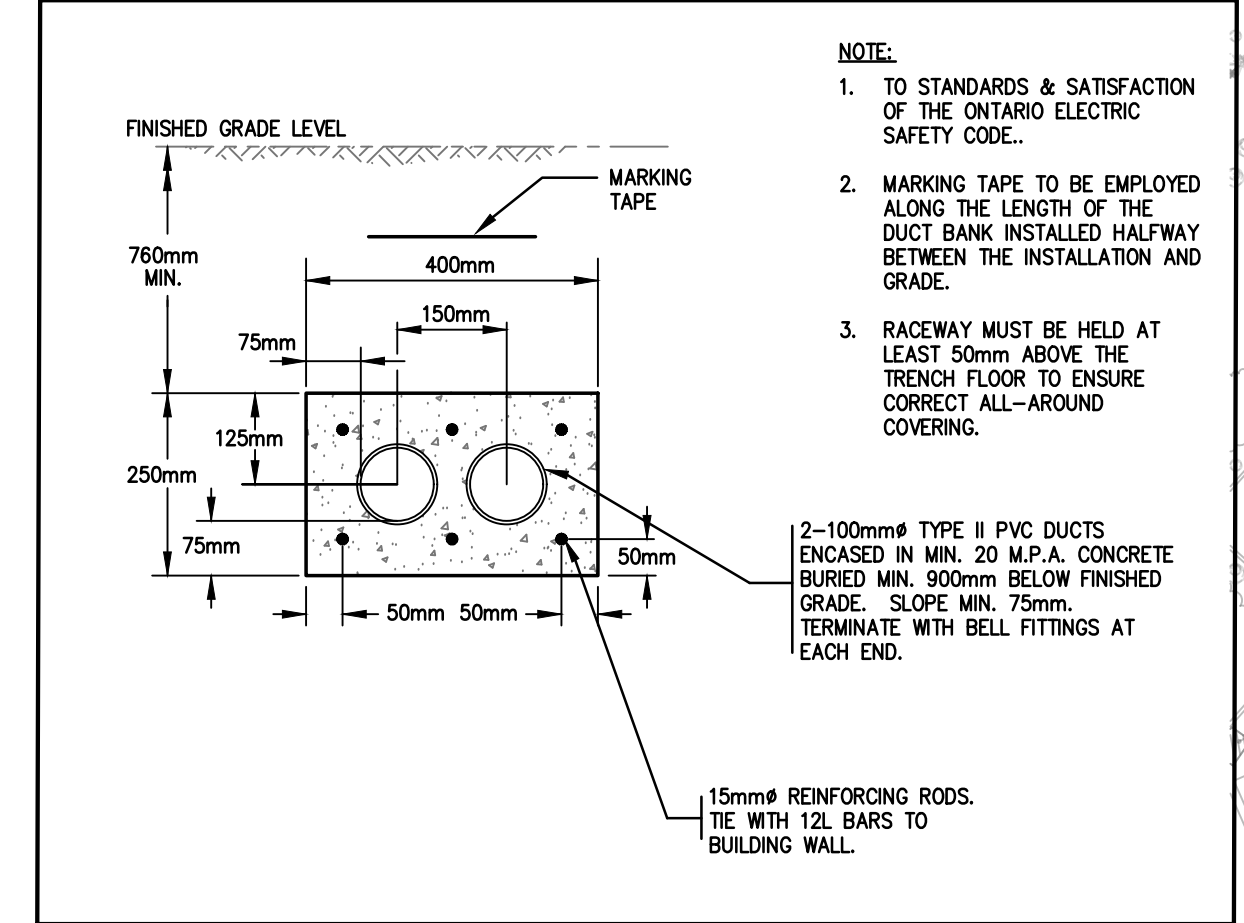


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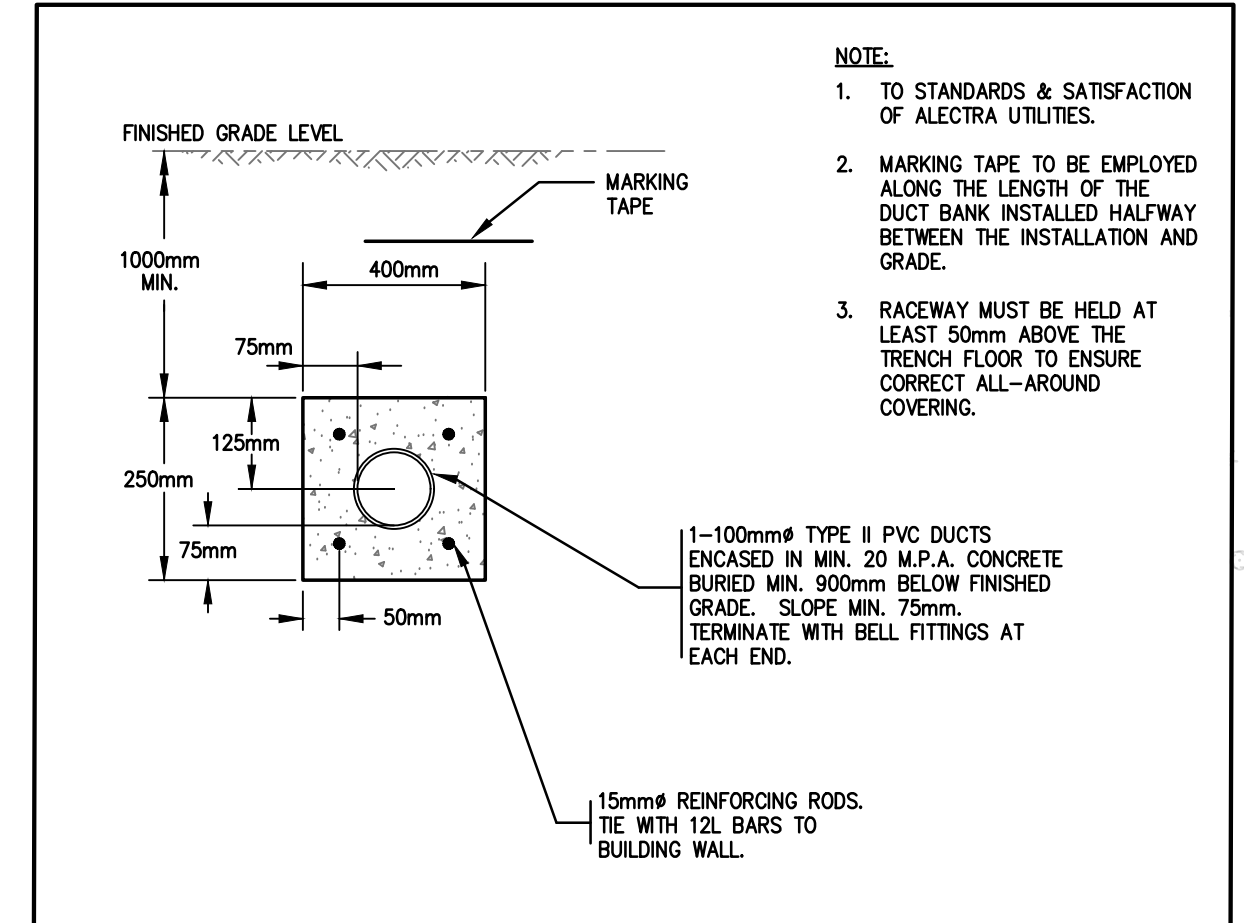
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PROJECT NO : 2023-0059	
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1
E100
1X3 PRIMARY DUCT BANK
SCALE: NTS

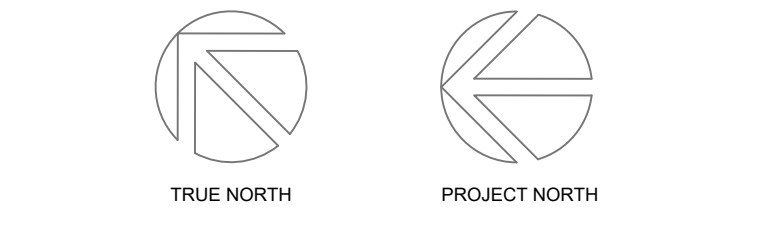


2
E100
1X2 SECONDARY DUCT BANK
SCALE: NTS



3
E100
1X1 FIRE ALARM DUCT BANK
SCALE: NTS

- NOTES**
- EXISTING S&C ELECTRIC TYPE 'PMH-9' PAD-MOUNTED GEAR LABELLED 'SG2116'. RETAIN THE SERVICES OF ALECTRA TO INSTALL, AS PART OF THIS CONTRACT. NEW 13.8kV CABLES BETWEEN LOAD TERMINALS OF EXISTING SPARE FUSED INTERRUPTER SWITCH 'CIG7223' IN EXISTING GEAR AND EXISTING RELOCATED 750kVA TRANSFORMER VIA EXISTING AND NEW DUCTS. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION. PROVIDE NEW S&C ELECTRIC FUSES TO SUIT.
 - EXISTING 1x3 103mm CONCRETE ENCASED DUCTBANK. NEW 13.8kV CABLES TO BE RUN IN SPARE CONDUIT WITHIN DUCTBANK.
 - SPARE 103mm PVC CONDUIT IN EXISTING CONCRETE ENCASED DUCT BANK TO BE INTERCEPTED TO SUIT EXTENSION TO EXISTING RELOCATED 750kVA TRANSFORMER LOCATION. HAND DIG AND HYDRO EXCAVATE TO EXPOSE EXISTING DUCTBANK. CAREFULLY CHIP AND BREAK CONCRETE ENCASUREMENT AS NECESSARY. RE-FORM EXISTING DUCTBANK AND RE-POUR CONCRETE ENCASUREMENT AROUND NEW AND EXISTING 103mm PVC CONDUIT TO MINIMUM COVERAGE NOTED IN DUCT BANK DETAIL. COORDINATE ELECTRICAL ISOLATION OF EXISTING UNDERGROUND POWER FEEDERS IN EXISTING DUCTBANK WITH UTM UTILITIES INFRASTRUCTURE DIVISION. RETAIN THE SERVICES OF ALECTRA TO INSTALL, AS PART OF THIS CONTRACT.
 - RETAIN THE SERVICES OF ALECTRA TO INSTALL, AS PART OF THIS CONTRACT. NEW 3x1 103mmC (REFER TO DETAIL 1 ON THIS DRAWING) CONCRETE ENCASED DUCT BANK EXTENDED FROM EXISTING FOR MEDIUM VOLTAGE FEEDERS TO EXISTING RELOCATED 750kVA TRANSFORMER.
 - EXISTING RELOCATED 750kVA PAD-MOUNTED TRANSFORMER. TRANSFORMER SHALL BE THREE-PHASE COMPARTMENTAL TYPE c/w LOADBREAK SWITCH.
 - PROVIDE NEW 2x1 103mmC CONCRETE ENCASED DUCT BANK (REFER TO DETAIL 2 ON THIS DRAWING) FOR SECONDARY 600V FEEDER FROM TRANSFORMER TO MAIN ELECTRICAL ROOM.
 - PROVIDE THREE (3) NEW FIRE ALARM MONITORING MODULES AT CENTRAL UTILITY PLANT (CUP) BUILDING. MODULES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. MODULES TO BE CONFIGURED SUCH THAT AN ALARM, TROUBLE, OR SUPERVISORY FIRE ALARM PANEL CONDITION IN THE NEWLY CONSTRUCTED BUILDING WILL ANNUNCIATE AT THE CUP BUILDING FIRE ALARM PANEL. WIRING SHALL BE RUN THROUGH NETWORK OF SPARE CONDUITS IN NEW AND EXISTING EMERGENCY POWER CONCRETE ENCASED DUCTBANKS AS INDICATED.
 - EXISTING CONCRETE ENCASED EMERGENCY POWER DUCT BANK. RUN NEW FIRE ALARM WIRING IN SPARE 103mm DUCT.
 - EXISTING UNDERGROUND EMERGENCY POWER PULL PIT TO BE UNCOVERED AT INDICATED LOCATION. HAND DIG AND HYDRO EXCAVATE AREA TO EXPOSE EXISTING PULL PIT SIDE WALLS. TERMINATE NEW SINGLE 103mm PVC CONDUIT DUCTBANK TO CONNECT PULL PIT WITH EXISTING MANHOLE MH-4B. BACKFILL EXCAVATED AREAS AND RE-FINISH SURFACES TO MATCH EXISTING.
 - NEW 1x1 103mm (REFER TO DETAIL 3 ON THIS DRAWING) PVC CONDUIT CONCRETE ENCASED DUCTBANK FOR NEW FIRE ALARM WIRING.
 - EXISTING MANHOLES MH-4 AND MH-4B TO BE UNCOVERED AT INDICATED LOCATION. HAND DIG AND HYDRO EXCAVATE TO EXPOSE SIDE WALLS TO SUIT TERMINATION OF NEW DUCTBANK. EXISTING MH-4B TO BE REMOVED AND REPLACED WITH NEW DUE TO INFILL WITH ASPHALT. EXISTING DUCTS TO BE RE-TERMINATED TO MH-4B.
 - RUN NEW FIRE ALARM TROUBLE, ALARM, AND SUPERVISORY CONDUCTORS THROUGH EXISTING EMPTY SPARE 103mm UNDERGROUND RIGID PVC CONDUIT.
 - PROVIDE NEW 1x1 103mm CONCRETE ENCASED RIGID PVC DUCT BANK (REFER TO DETAIL 1 ON THIS DRAWING) BETWEEN EXISTING MANHOLE MH-6 AND NEW BUILDING FIRE ALARM PANEL FOR NEW WIRING TO BE ROUTED FROM THE CUP BUILDING.
 - OPTICAL CROSSOVER CABINET OCC NO.1 INSTALLED UNDER SEPARATE CONTRACT. DIV. 26 CONTRACTOR TO SUPPLY AND INSTALL 48 OS2 INDOOR/OUTDOOR FIBRE CABLE BETWEEN NEW BUILDING AND OCC NO.1 THROUGH NETWORK OF EXISTING AND NEW DUCT BANKS. TERMINATIONS AT OCC NO.1 BY UTM INFORMATION & INSTRUCTIONAL SERVICES DEPARTMENT. TERMINATIONS IN NEW BUILDING BY DIV.26.
 - NEW UNDERGROUND FIBRE CONCRETE ENCASED CONDUIT DUCTBANK BETWEEN EXISTING MANHOLE MH-4 AND OCC NO.1 INSTALLED UNDER SEPARATE CONTRACT.
 - RUN 48 OS2 INDOOR/OUTDOOR FIBRE CABLE THROUGH EXISTING 103mm UNDERGROUND RIGID PVC CONDUIT. PULLING OF NEW CABLE SHALL BE DONE WITH CARE AS EXISTING CONDUITS ARE FILLED WITH OPERATIONAL EXISTING TO REMAIN FIBRE CABLES SERVING NEARBY BUILDINGS.
 - PROVIDE 1x1 CONCRETE ENCASED DUCTBANK (REFER TO DETAIL 1 ON THIS DRAWING) FOR UNDERGROUND FIBRE BETWEEN EXISTING MANHOLE MH-6B AND MAIN COMMUNICATION ROOM IN NEW BUILDING. TERMINATE DUCTBANK IN PULL PIT WITHIN ROOM. TERMINATE FIBRE CABLE TO DATA RACK NO.1 FIBRE PATCH PANEL. EXISTING MANHOLE MH-6B TO BE UNCOVERED. HAND DIG AND HYDRO EXCAVATE AREA TO EXPOSE SIDE WALLS TO SUIT TERMINATION OF NEW 103mm CONDUIT DUCTBANK.
 - EXISTING MEDIUM VOLTAGE UNDERGROUND CONCRETE ENCASED DUCTBANK
 - DIVISION 26 TO PROVIDE TEMPORARY PORTABLE DIESEL GENERATORS TO KEEP THE FOLLOWING BUILDINGS ENERGIZED DURING THE TIME THE EXISTING MEDIUM VOLTAGE SWITCHGEAR IS DE-ENERGIZED TO SUIT THE ASSOCIATED SCOPES OF WORK. FOR EACH GENERATOR INCLUDE IN BID PRICE ALL COSTS ASSOCIATED WITH CONNECTION AND DISCONNECTION OF GENERATORS TO THE RESPECTIVE BUILDING'S MAIN DISTRIBUTION PANEL, DISCONNECT AND RE-CONNECT OF EXISTING CABLES, FUEL COSTS, AND SERVICES OF ONE (1) GENERATOR TECHNICIAN FOR THE ENTIRE TIME THAT THE PORTABLE GENERATOR IS OPERATIONAL:
 - PALEOMAGNETISM BUILDING, FORENSICS ANTHROPOLOGY FIELD SCHOOL & GROUNDS BUILDING - 100kW/125kVA (120/240, 3w + G)
 - LISLEHURST PRINCIPAL'S RESIDENCE - 50kW/75kVA (120/240, 3w + G)
 - WEATHER STATION - 100kW/125kVA (120/240, 3w + G)
 - THE CAMPUS ELECTRICAL DISTRIBUTION IS CUSTOMER OWNED, BUT THE HIGH VOLTAGE (HV) WORK IS DONE BY ALECTRA ON BEHALF OF UoT. ALL WORK RELATED TO THE HV DISTRIBUTION, DUCT, DUCTBANK AND PAD MOUNT TRANSFORMER IS PART OF THIS CONTRACT, BUT SHALL BE UNDERTAKEN BY ALECTRA. RETAIN THE SERVICES OF ALECTRA TO CONDUCT THIS PORTION OF WORK FOR A FULL AND COMPLETE SYSTEM.



No.	ISSUANCE	DATE
1	ISSUED FOR SD	2023-08-04
2	ISSUED FOR SD COSTING	2023-12-01
3	ISSUED FOR SD	2023-12-21
4	ISSUED FOR SPA	2024-01-19
5	ISSUED FOR DESIGN DEVELOPMENT	2024-03-01
6	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
7	ISSUED FOR PERMIT	2024-09-06
8	ISSUED FOR ESA	2024-10-21
9	ISSUED FOR 100% CD	2024-11-05
10	ISSUED FOR TENDER	2024-11-15

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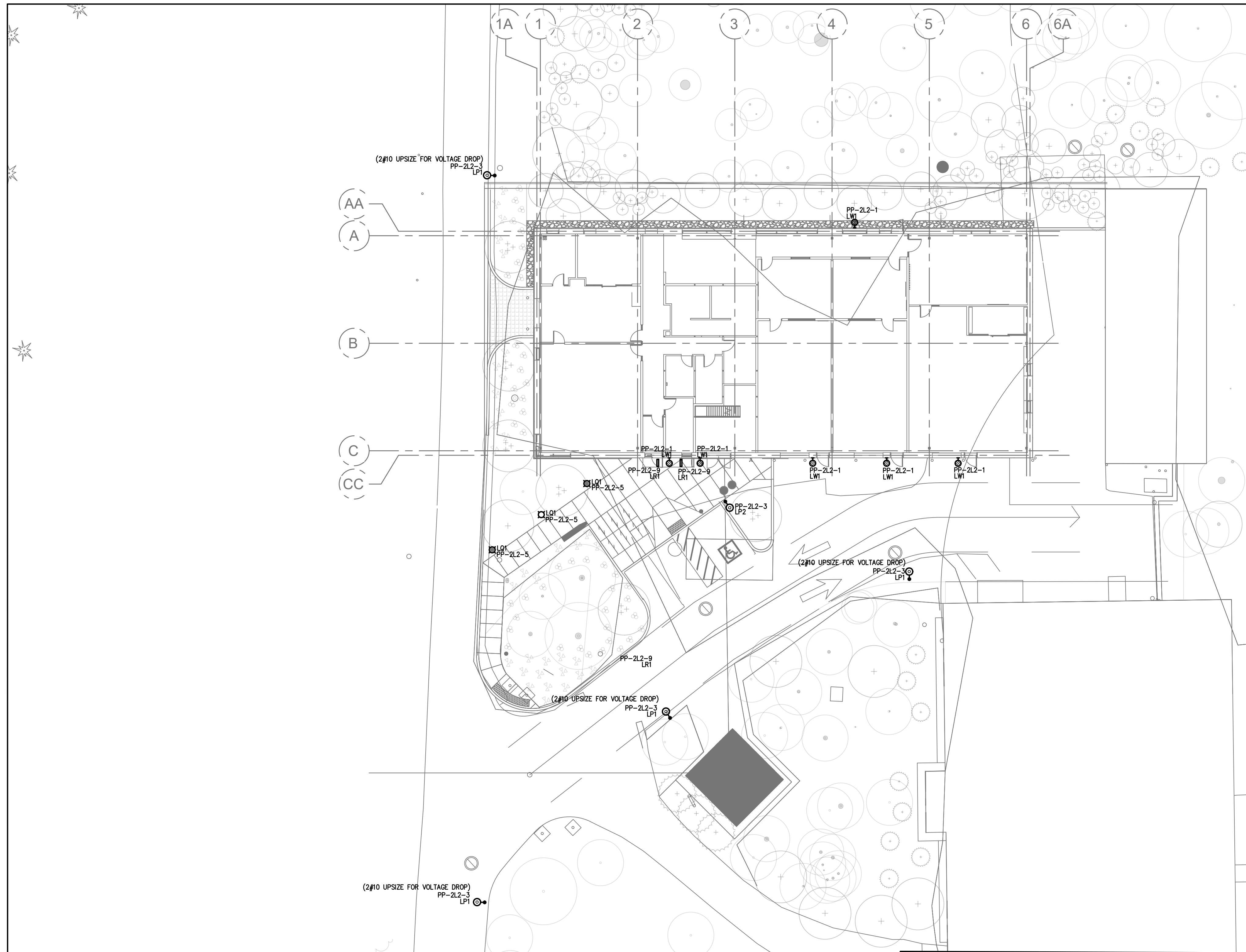
PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
ELECTRICAL SITE PLAN

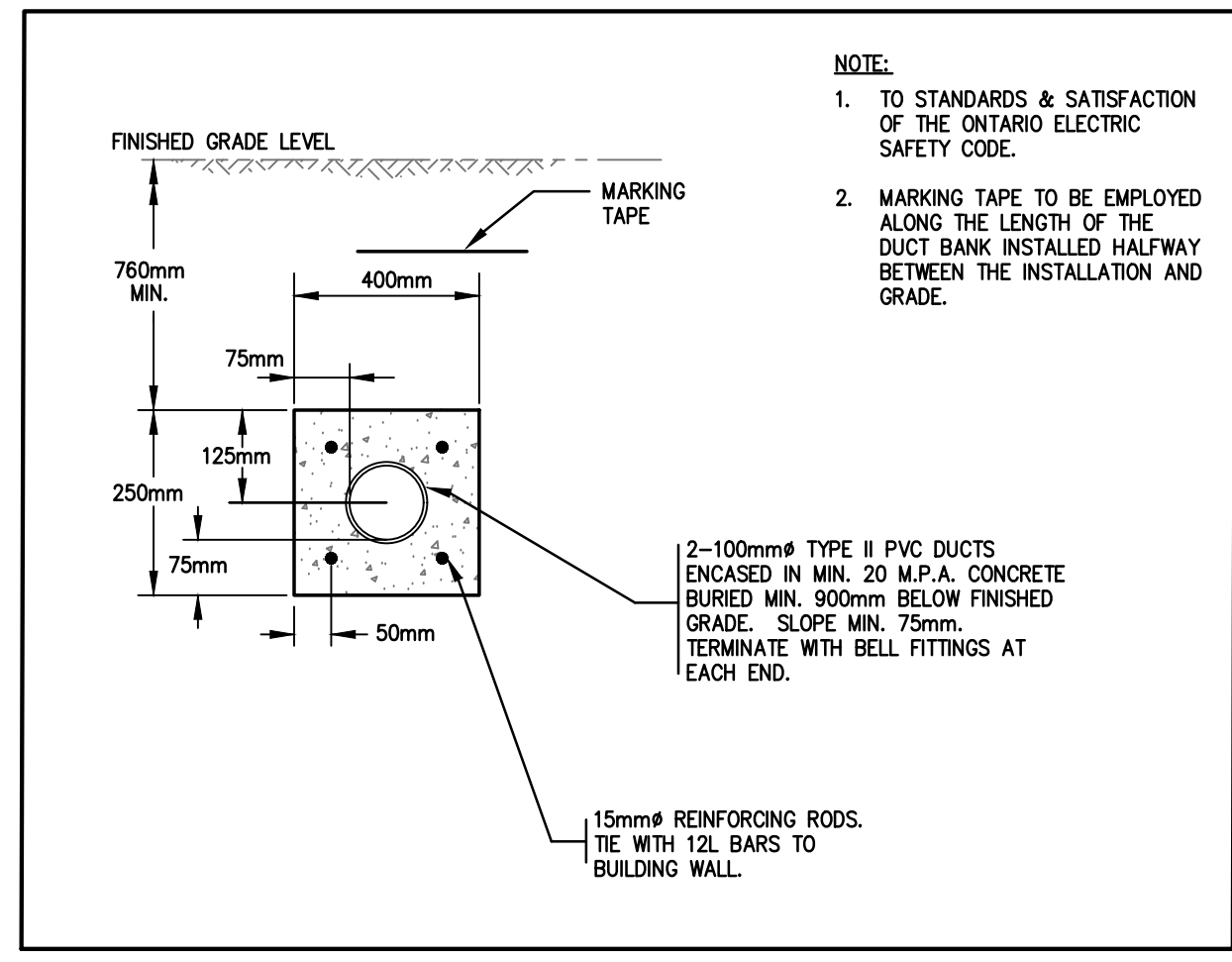


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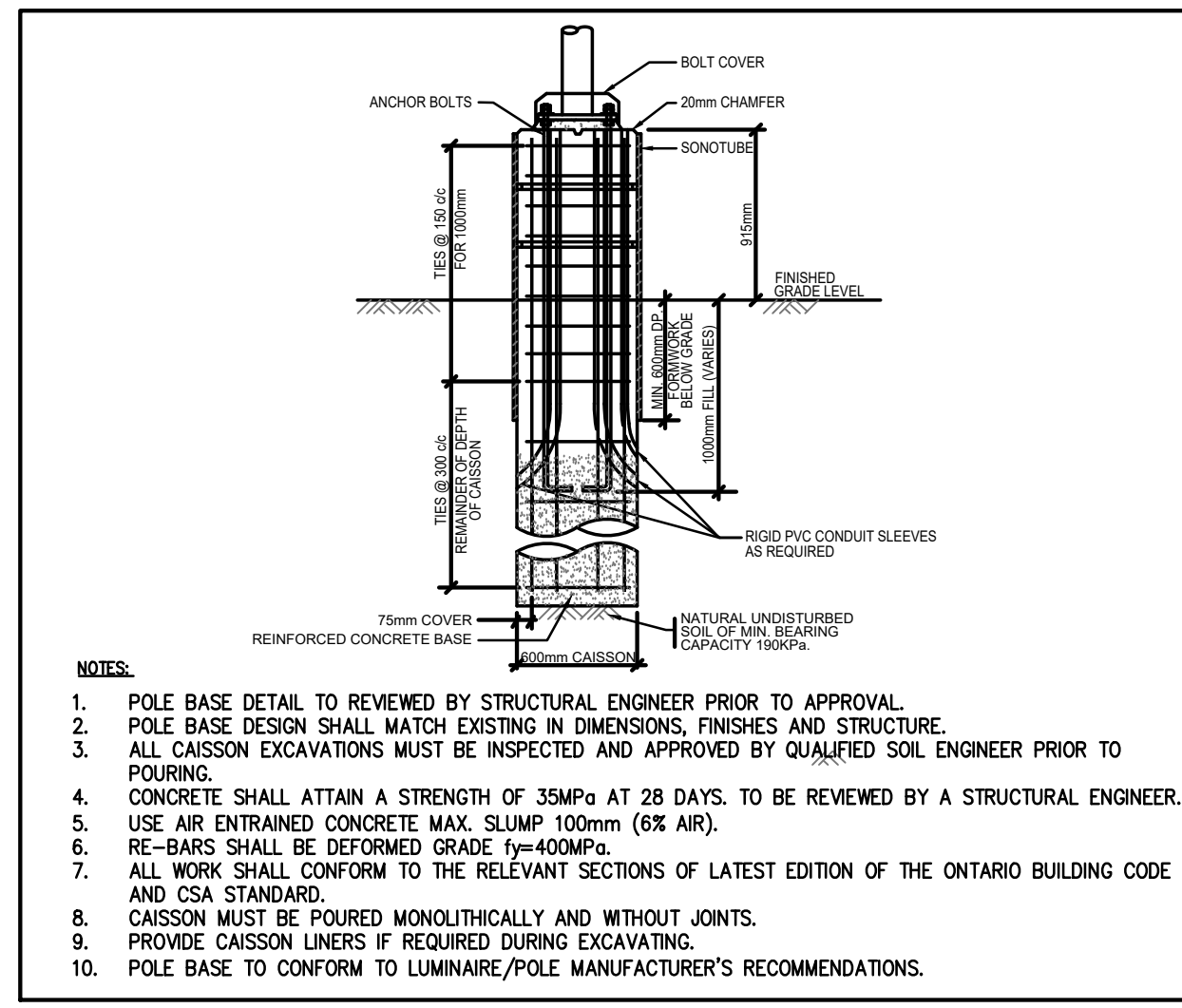
SCALE: N.T.S.	SHEET NO.:
DATE: FEB 2024	
PROJECT NO.: 2023-0059	
DRAWN BY: MP	
CHECKED BY: AT	



NOTES:
 1. ALL SITE LIGHTS TO BE CONTINUED BY SITE LIGHT CONTROLS. REFER TO 6/E-802 FOR DETAILS.



1 DUCTBANK FOR FEEDERS TO SITE LIGHT POLES
 SCALE: NTS

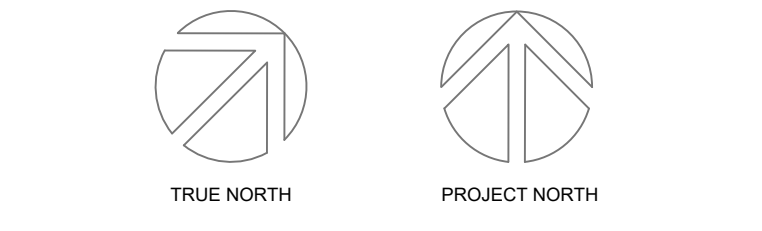


2 TYPICAL LIGHT/SECURITY POLE BASE
 SCALE: NTS

3 ELECTRICAL SITE LIGHTING PLAN
 SCALE: 1:200

UTM-PRE ENGINEERED BUILDING
 Site Lighting Fixture Schedule
 Project No.: 2023-0059
 Issued For

Type	Luminaire Description	Lamp & Wattage	Control Protocol	Input Voltage	Finish	Mounting	Location	Manufacturer & Catalogue #	Notes
LP1	POLE MOUNTED LED FIXTURE WITH TYPE 3 DISTRIBUTION, CORROSION RESISTANT, DIE-CAST ALUMINUM HOUSING. TO BE MOUNTED AT 5500mm.	35W 4748LMNS, 3000K, 80CRI, LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	POLE	SITE LIGHTING	BEACON: VIPER AREA/SITE VP-1-160L-35-3K8-3-LINV POLE: VALMONT PATAGONIA SINGLE ARM POLE OR APPROVED EQUAL	FIXTURES SHALL BE IP65 RATED AND DARK SKY COMPLIANT.
LP2	ASYMMETRIC WIDE BEAM POLE MOUNTED LED FIXTURE WITH TYPE 2 DISTRIBUTION, CONSTRUCTED IF DIE-CAST MARINE GRADE ALUMINUM. TO BE MOUNTED AT 4500mm.	23W 2352LMNS, 3000K, 80CRI, LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	POLE	SITE LIGHTING	BEGA: LIGHT BUILDING ELEMENT 88977+K3 OR APPROVED EQUAL	FIXTURES SHALL BE IP65 RATED AND DARK SKY COMPLIANT.
LQ1	LED BOLLARD MOUNTED ON PLANTER. CONSTRUCTED WITH MARINE GRADE ALUMINUM.	14.5W 13.61LMNS, 3000K, 80CRI, LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	BOLLARD	SITE LIGHTING	BEGA: BOLLARD 95058 OR APPROVED EQUAL	FIXTURES SHALL BE IP65 RATED AND DARK SKY COMPLIANT.
LW1	ARCHITECTURAL LOW PROFILE WALL MOUNTED OUTDOOR LIGHT WITH BUILT-IN NICKEL CADMIUM BATTERY FOR EMERGENCY LIGHTING. PROVIDE PHOTO-SENSOR AND PIR MOTION DETECTOR OPTION. PROVIDE LIGHT SUITABLE FOR -25 TO 50 DEGREES CELSIUS WITH OPTIONAL HEATER OPTION.	3.4W 1600LMNS (AC), 600LMNS (EMS), 3000K, LED		120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	WALL MOUNTED	SITE LIGHTING	HUBBELL COMPASS: CUSO BK-H OR APPROVED EQUAL	FIXTURES SHALL BE IP65 RATED AND DARK SKY COMPLIANT.
LR1	ARCHITECTURAL EXTRUDED ALUMINUM NOMINALLY 2' L X 2' W RECESSED LINEAR FIXTURE.	7.2W/FT, 750LMNS/FT, 3000K, 90CRI LEED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	RECESSED	SITE LIGHTING	AXIS LIGHTING: EXTEND 2 EX2R-750-90-30-SO-2-X-120-DPX-X OR APPROVED EQUAL	FIXTURES SHALL BE IP65 RATED



No.	ISSUANCE	DATE
1	ISSUED FOR SD	2023-08-04
2	ISSUED FOR SD COSTING	2023-12-01
3	ISSUED FOR SD	2023-12-21
4	ISSUED FOR DESIGN DEVELOPMENT	2024-03-01
5	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
6	ISSUED FOR PERMIT	2024-09-06
7	ISSUED FOR ESA	2024-10-21
8	ISSUED FOR 100% CD	2024-11-05
9	ISSUED FOR TENDER	2024-11-15

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PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

TITLE
 ELECTRICAL SITE LIGHTING PLAN



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NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND DOCUMENTS.
2. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATIONS.
3. REFER TO TYPICAL LIGHTING CONTROL DETAIL FOR ADDITIONAL INFORMATION.



No.	ISSUANCE	DATE
1	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
2	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
3	ISSUED FOR PERMIT	2024-09-06
4	ISSUED FOR ESA	2024-10-21
5	ISSUED FOR 100% CD	2024-11-05
6	ISSUED FOR TENDER	2024-11-15

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
LIGHTING LAYOUT

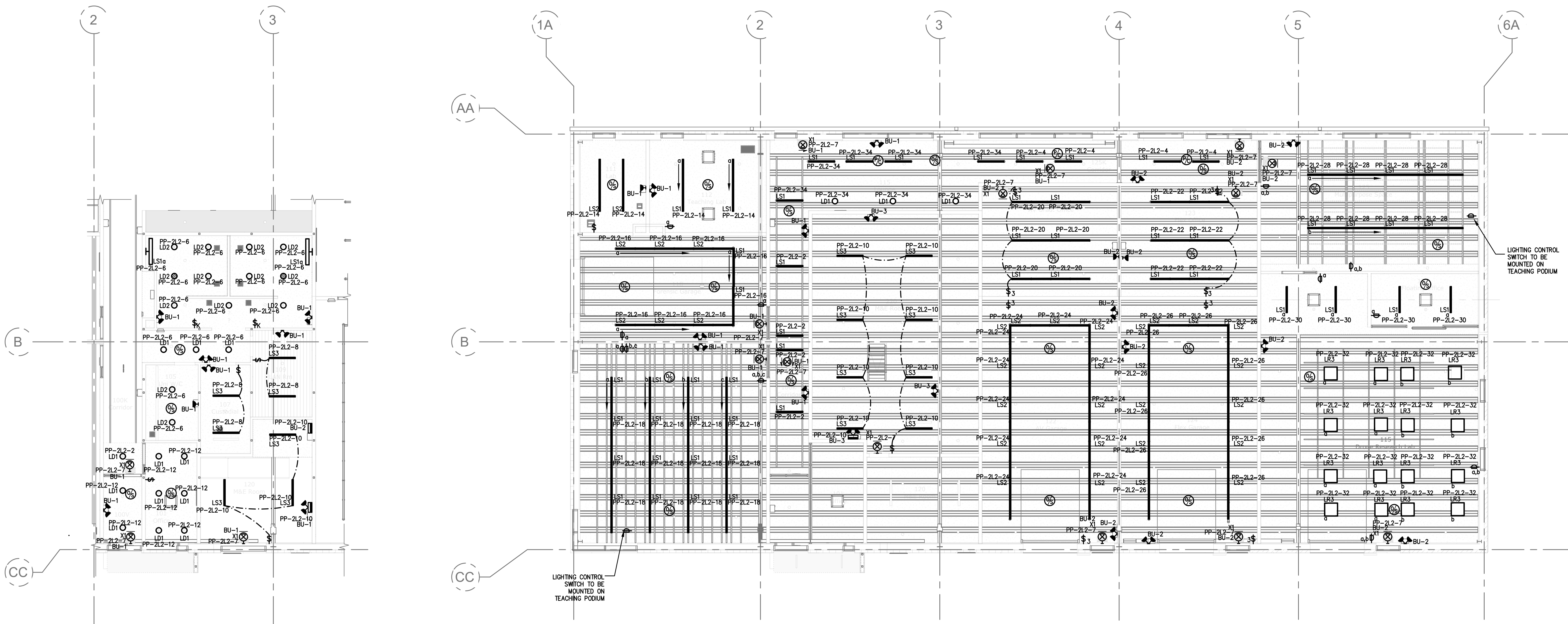
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PROJECT NO.: 2023-0059	
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E201

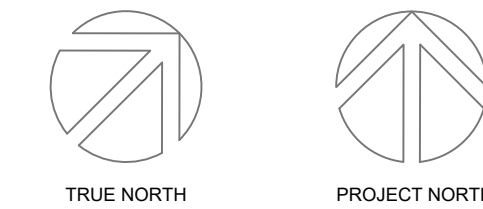


1 LIGHTING PLAN – ENTRY AND SERVICE CORE
E-201 1:100

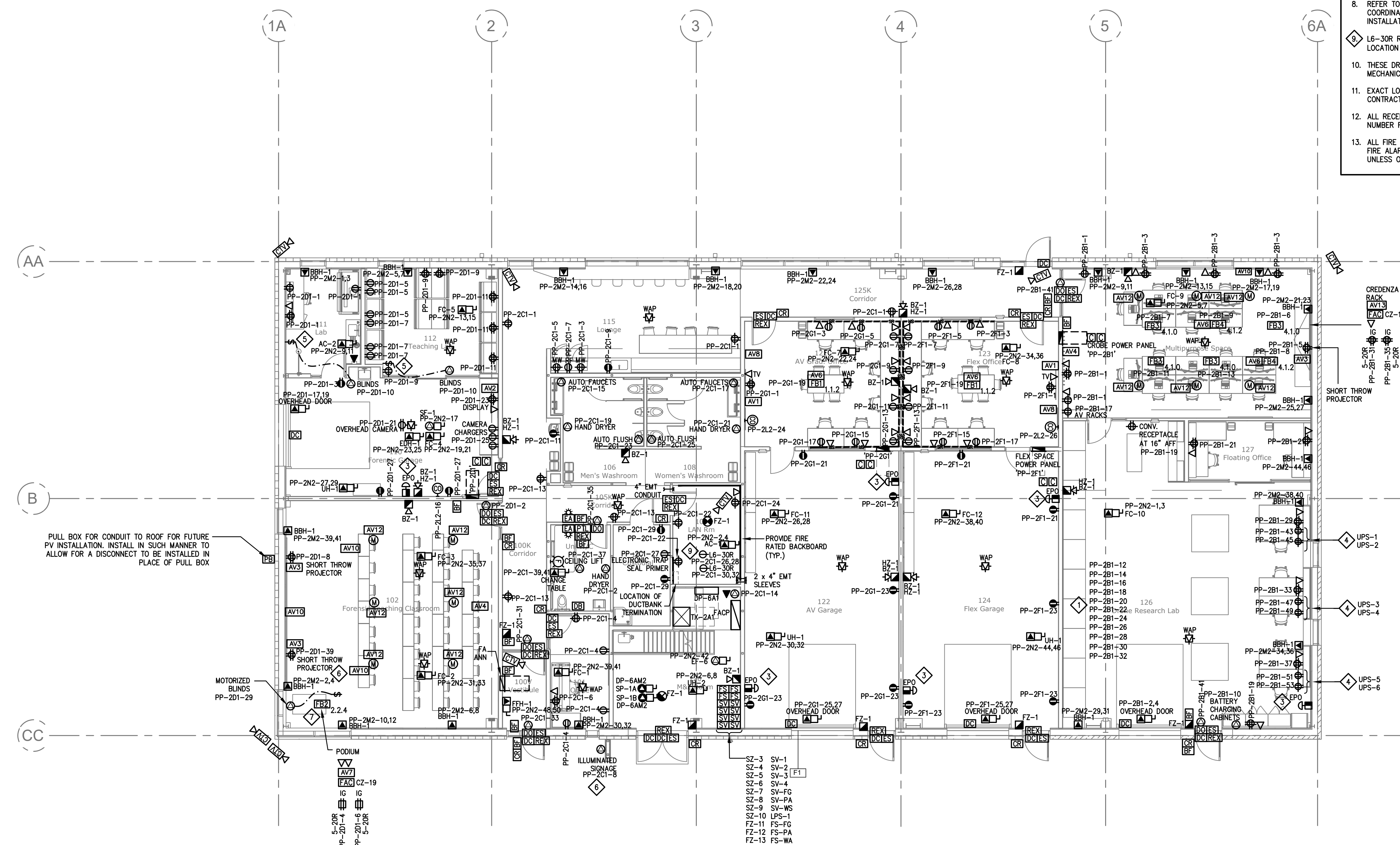
2 LIGHTING PLAN
E-201 1:100

KEY NOTES

1. PROVIDE ROUGH-INS AS LISTED FOLLOWING FOR VARIOUS EQUIPMENTS. FINAL LOCATION AND MOUNTING HEIGHTS TO BE COORDINATED WITH ARCHITECT.
 - 1.1. TEN (10) 5-15R DUPLEX RECEPTACLES WITH DATA CONNECTIONS TO LAPTOPS.
 - 1.2. TWO (2) 5-20R DUPLEX RECEPTACLES.
 - 1.3. TEN (10) 5-15R DUPLEX RECEPTACLES.
2. PROVIDE SEPARATE BACKBOXES AND FACEPLATES FOR POWER AND LOW VOLTAGE DEVICES.
3. PROVIDE PROTECTIVE PLASTIC COVER FOR EPO. PROVIDE RED LAMACOD INDICATING "EMERGENCY POWER OFF" EPO BUTTONS TO BE ENCLOSED IN A CLEAR LIFT COVER.
4. PROVIDE 1800W, LINE INTERACTIVE STANDALONE UPS FOR EACH COMPUTER WORKSTATION (QTY 6). 10MINUTES RUNTIME. UPS SHALL BE APC SMART UPS SERIES SMT2200C. PROVIDE RAISED STAND UNDER UPS SO THAT IT IS NOT SITTING DIRECTLY ON FLOOR. UPS ARE TAGGED UPS 1 TO 6.
5. PROVIDE 2 POSITION MOMENTARY UP & DOWN SWITCH FOR MOTORIZED BLINDS WITH 3#12 WIRE FOR BLINDS CONTROL.
6. ILLUMINATED SIGNAGE TO BE CONTROLLED BY SITE LIGHT CONTROLS. REFER TO 6/E-802.
7. COORDINATE THE FINAL LOCATION OF THE FLOOR BOX WITH AV CONSULTANT PRIOR TO INSTALLATION ON SITE.
8. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATIONS.
9. L6-30R RECEPTACLES TO BE MOUNTED TO REAR OF 12" MANAGER. COORDINATE THE FINAL LOCATION OF THE RECEPTACLES PRIOR TO INSTALLATION ON SITE.
10. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND DOCUMENTS.
11. EXACT LOCATION OF MECHANICAL EQUIPMENT TO BE COORDINATED WITH MECHANICAL CONTRACTOR, CONFIRM EXACT LOCATION WITH ARCHITECT.
12. ALL RECEPTACLES SHALL BE CLEARLY LABELLED WITH PANEL DESIGNATION AND CIRCUIT NUMBER FOLLOWING FINAL INSTALLATION.
13. ALL FIRE ALARM DEVICES SERVING THIS FLOOR, SHALL BE CONNECTED TO THE RESPECTIVE FIRE ALARM ZONE NUMBER AS INDICATED ON THE DRAWING E703 - FIRE ALARM SCHEDULE, UNLESS OTHERWISE NOTED.



No.	ISSUANCE	DATE
1	ISSUED FOR SD	2023-08-04
2	ISSUED FOR SD COSTING	2023-12-01
3	ISSUED FOR SD	2023-12-21
4	ISSUED FOR DESIGN DEVELOPMENT	2024-03-01
5	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
6	ISSUED FOR PERMIT	2024-09-06
7	ISSUED FOR ESA	2024-10-21
8	ISSUED FOR 100% CD	2024-11-05
9	ISSUED FOR TENDER	2024-11-15



PULL BOX FOR CONDUIT TO ROOF FOR FUTURE PV INSTALLATION. INSTALL IN SUCH MANNER TO ALLOW FOR A DISCONNECT TO BE INSTALLED IN PLACE OF PULL BOX

MOTORIZED BLINDS PP-201-29

- SZ-3 SV-1
- SZ-4 SV-2
- SZ-5 SV-3
- SZ-6 SV-4
- SZ-7 SV-FG
- SZ-8 SV-PA
- SZ-9 SV-WS
- SZ-10 LPS-1
- FZ-11 FS-FG
- FZ-12 FS-PA
- FZ-13 FS-WA
- FZ-14 PS-1

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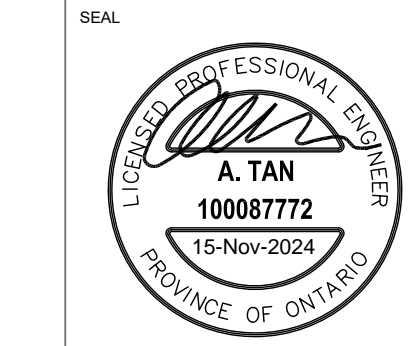


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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
POWER & SYSTEMS LAYOUT - GROUND FLOOR

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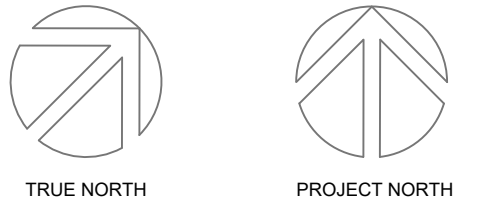
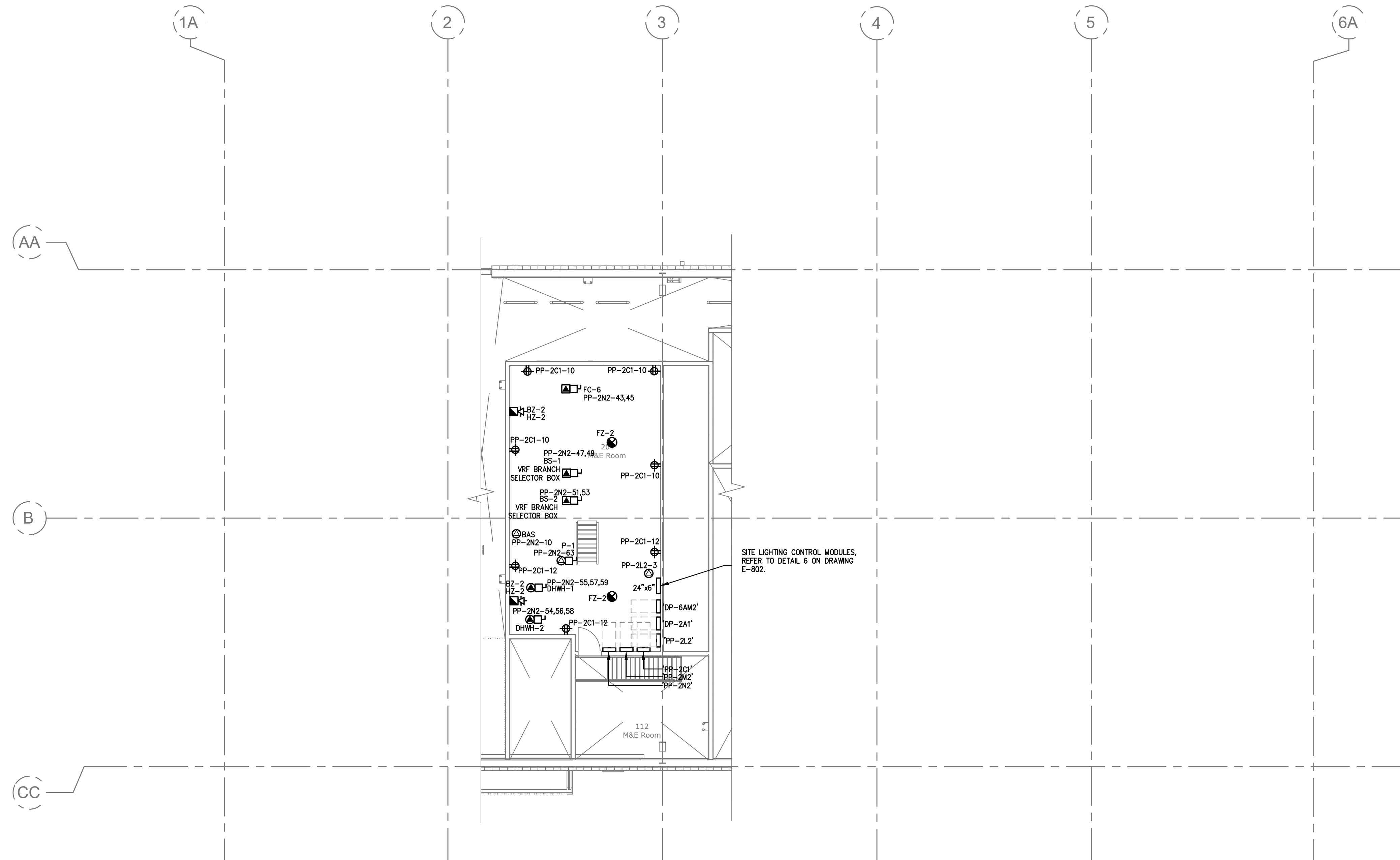


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PROJECT NO: 2023-0059	
DRAWN BY: MP	
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NOTES

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2. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATIONS.
3. EXACT LOCATION OF MECHANICAL EQUIPMENT TO BE COORDINATED WITH MECHANICAL CONTRACTOR.
4. ALL RECEPTACLES SHALL BE CLEARLY LABELLED WITH PANEL DESIGNATION AND CIRCUIT NUMBER FOLLOWING FINAL INSTALLATION.
5. ALL FIRE ALARM DEVICES SERVING THIS FLOOR, SHALL BE CONNECTED TO THE RESPECTIVE FIRE ALARM ZONE NUMBER AS INDICATED ON DRAWING E703 - FIRE ALARM SCHEDULE, UNLESS OTHERWISE NOTED.



No.	ISSUANCE	DATE
1	ISSUED FOR SD	2023-08-04
2	ISSUED FOR SD	2023-12-21
3	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
4	ISSUED FOR PERMIT	2024-09-06
5	ISSUED FOR ESA	2024-10-21
6	ISSUED FOR 100% CD	2024-11-05
7	ISSUED FOR TENDER	2024-11-15

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
POWER & SYSTEMS LAYOUT -
MEZZANINE FLOOR

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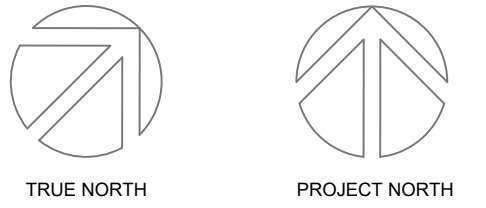
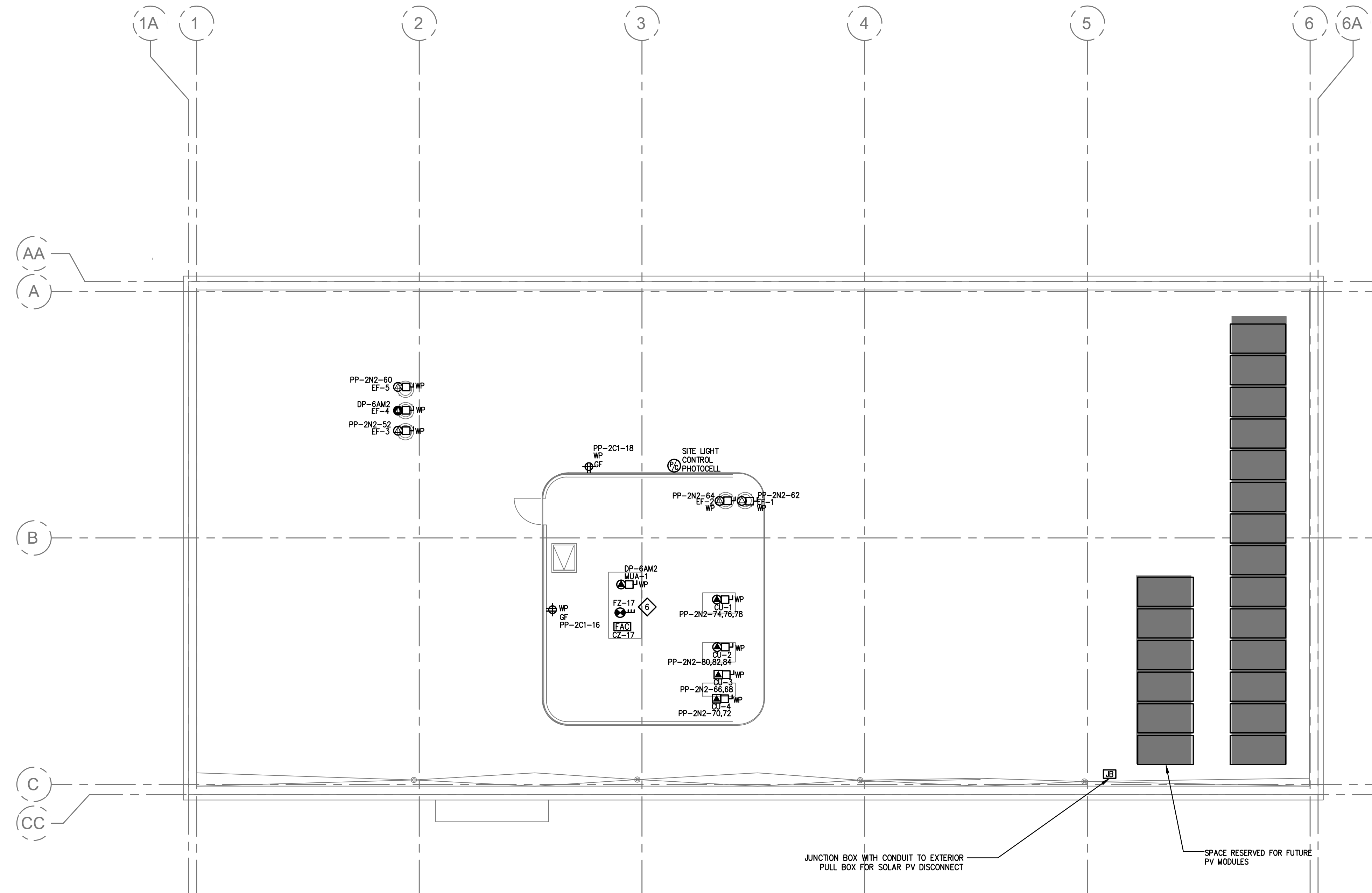


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DATE: FEB 2024
PROJECT NO: 2023-0059
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KEY NOTES

- INSTALL DUCT SMOKE DETECTOR IN STRAIGHT SECTION OF DUCT WORK WHERE THERE IS LAMINAR FLOW
- THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND DOCUMENTS.
- REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATIONS.
- EXACT LOCATION OF MECHANICAL EQUIPMENT TO BE COORDINATED WITH MECHANICAL CONTRACTOR.
- ALL RECEPTACLES SHALL BE CLEARLY LABELLED WITH PANEL DESIGNATION AND CIRCUIT NUMBER FOLLOWING FINAL INSTALLATION.
- ALL FIRE ALARM DEVICES SERVING THIS FLOOR, SHALL BE CONNECTED TO THE RESPECTIVE FIRE ALARM ZONE NUMBER AS INDICATED ON DRAWING E703 - FIRE ALARM SCHEDULE, UNLESS OTHERWISE NOTED.



No.	ISSUANCE	DATE
1	ISSUED FOR SD	2023-08-04
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3	ISSUED FOR SD	2023-12-21
4	ISSUED FOR DESIGN DEVELOPMENT	2024-03-01
5	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
6	ISSUED FOR PERMIT	2024-09-06
7	ISSUED FOR ESA	2024-10-21
8	ISSUED FOR 100% CD	2024-11-05
9	ISSUED FOR TENDER	2024-11-15

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PROJECT
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3359 MISSISSAUGA ROAD

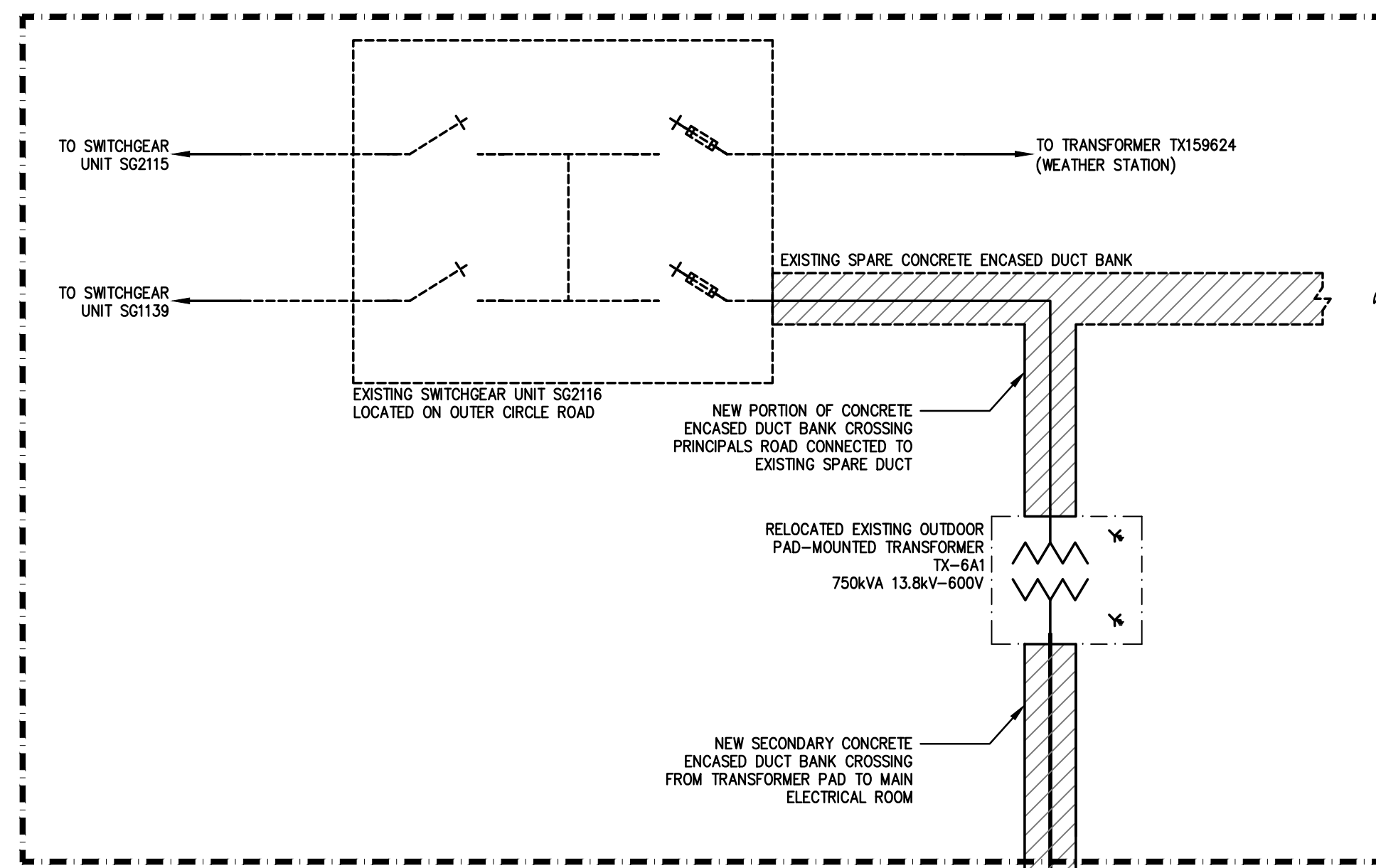
TITLE
POWER & SYSTEMS LAYOUT - ROOF

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DATE : FEB 2024	
PROJECT NO : 2023-0059	
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DIV. 26 CONTRACTOR TO RETAIN ALECTRA TO COMPLETE SCOPE OF WORK. DIVISION OF MATERIAL SUPPLY, INSTALL AND TERMINATIONS SHALL BE AS PER UTM SERVICE AGREEMENT WITH ALECTRA

ALECTRA CONTACT:
ROB ELLIOTT
416-529-0391
ROB.ELLIOTT@ALECTRAPOWERSERVICES.COM

KEY NOTES

1 THIS BUILDING IS SUB-FED FROM THE CENTRAL UTILITIES PLANT, THEREFORE A HYDRO BULK METER IS NOT EQUIPPED IN THIS BUILDING.

2 PROVIDE A DIGITAL CHECK METER WHICH CAN RECORD THE PEAK LOAD OBSERVED IN KW AND KVA FROM ITS LAST RESET. PROVIDE SCHNEIDER ELECTRIC PM5563 METER. THIS METER SHALL BE INTEGRATED INTO THE CAMPUS PME SYSTEM.

RESPONSIBILITY MATRIX

SCOPE	SUPPLY	INSTALL
PRIMARY CABLES	ALECTRA	ALECTRA
SECONDARY CABLES	DIV.26	DIV.26
TERMINATIONS	-	ALECTRA
TRANSFORMER	ALECTRA	ALECTRA
TRANSFORMER PAD	ALECTRA	ALECTRA

NOTES:

1. RETAIN THE SERVICES OF ALECTRA TO PERFORM THE SCOPE OF WORK IDENTIFIED ABOVE AS PART OF THIS CONTRACT

- NOTES**
- ALL FLOOR MOUNTED ELECTRICAL ROOM EQUIPMENT SHALL BE MOUNTED ON A 100MM CONCRETE PAD. THIS CONTRACTOR SHALL PROVIDE THE PADS TO MEET THE REQUIREMENTS OF THE STRUCTURAL DIVISION.
 - ALL MAIN ELECTRICAL ROOM EQUIPMENT IS TO BE SPRINKLERPROOF DESIGNED WITH DRIP SHIELDS.
 - ELECTRICAL SERVICE GROUND MUST CONFORM TO OESC SECTION 36 AND TABLE 51.
 - ALL LIFE SAFETY ELECTRICAL DISTRIBUTION CABLES ARE TO BE 2 HOUR FIRE RATED CABLES (MI) OR ENCLOSED IN A 2 HOUR FIRE RATED ENCLOSURE. CONCRETE ENCASEMENT TO BE 76MM MINIMUM ON ALL SIDES.
 - ALL TRANSFORMERS LOCATED IN MAIN ELECTRICAL ROOM OR MECHANICAL PENTHOUSE ARE TO BE MOUNTED ON NEOPRENE "NSN" PADS WITH 13MM STATIC DEFLECTION. NEOPRENE MOUNTING PADS ARE TO SUPPORT CORE AND COIL FROM DIRECT CONTACT WITH CONCRETE BASE.

No.	ISSUANCE	DATE
1	ISSUED FOR SD	2023-08-04
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4	ISSUED FOR DESIGN DEVELOPMENT	2024-03-01
5	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
6	ISSUED FOR PERMIT	2024-09-06
7	ISSUED FOR ESA	2024-10-21
8	ISSUED FOR 100% CD	2024-11-05
9	ISSUED FOR TENDER	2024-11-15

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PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

ELECTRICAL SINGLE LINE DIAGRAM

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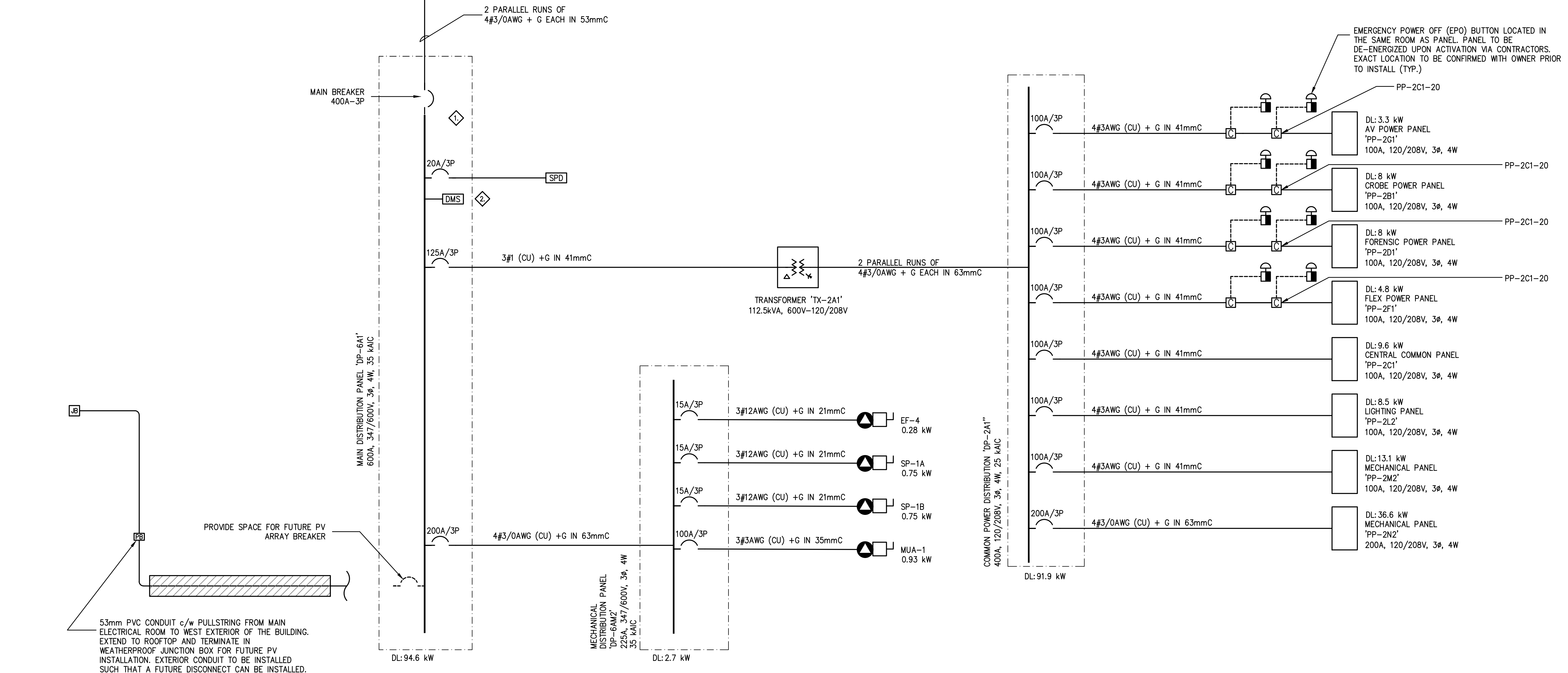
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DATE: FEB 2024

PROJECT NO: 2023-0059

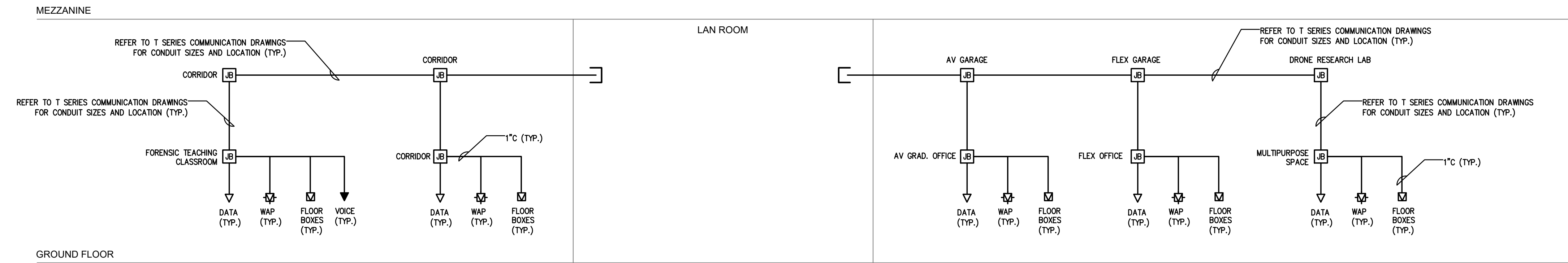
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NOTES

1. PROVIDE A COMPLETE BACK BOX, CONDUIT AND JUNCTION BOX INFRASTRUCTURE SYSTEM C/W PULL STRING FOR THE COMMUNICATIONS CABLES. REFER TO COMMUNICATIONS DRAWING PREPARED BY HIDI WHICH FORMS PART OF THIS CONTRACT. ANY DISCREPANCIES BETWEEN DRAWINGS, THE COMMUNICATIONS DRAWINGS SHALL GOVERN. THIS RISER IS DIAGRAMMATIC ONLY.



1 IT + SECURITY RISER
E501 SCALE: NTS

No.	ISSUANCE	DATE
1	ISSUED FOR 100% CD	2024-11-05
2	ISSUED FOR TENDER	2024-11-15

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
IT & SECURITY RISER DIAGRAMS

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PROJECT NO : 2023-0059	
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SCOPE ITEM	AUDIOVISUAL CONTRACTOR (A.V.C.)	ELECTRICAL CONTRACTOR (E.C.)	GENERAL CONTRACTOR (G.C.)	COMMUNICATIONS CONTRACTOR (C.C.)
AV SYSTEMS CONDUIT, BACKBOXES AND CABLE TRAYS	-	PROVIDE PULL-READY SYSTEM INCLUDING ALL CONDUIT, BACKBOXES AND CABLE TRAYS. ALL CONDUITS TO BE COMPLETE WITH PULLSTRING.	-	-
AV WALLBOX CONNECTOR PLATES, CUSTOM OR STANDARD	PROVIDE. FINISH PER ARCHITECT'S INSTRUCTIONS	-	-	-
AV FLOORBOXES	MODIFY PLATES TO SUIT FLOORBOX AND INSTALL	PROVIDE FLOORBOX; COORDINATE BOX TYPE WITH AV CONSULTANT; SUPPLY SAMPLE IF REQUESTED, SUPPLY BLANK PLATES TO AV CONTRACTOR	-	-
AV SYSTEMS CABLE (LOW VOLTAGE, INCLUDING NETWORK CABLING WITH PATCH CABLES FOR AV SYSTEMS)	PROVIDE	-	-	-
AC OUTLETS FOR DISPLAYS, PROJECTORS, AV EQUIPMENT, FLOORBOXES, ETC	-	PROVIDE	-	-
DIRECT POWER CONNECTIONS FOR AV SYSTEMS RACKS	PROVIDE DISTRIBUTION WITHIN RACK	PROVIDE POWER CIRCUITS AS REQUIRED AT LOCATIONS NOTED ON DRAWINGS. COORDINATE LOCATIONS WITH AV CONTRACTOR. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.	-	-
LAN DROPS FOR OWNER NETWORK	SPECIFY LOCATIONS AND COORDINATE WITH G.C.	-	-	PROVIDE. REFER TO COORDINATION MATRIX FOR LOCATIONS AND QUANTITIES
PATCH CABLING TO CLIENT NETWORK FOR AV DEVICES	INSTALL	-	-	SUPPLY
MILLWORK FURNITURE (TABLES, RACK ENCLOSURES, LECTERNS AND CREDENZAS)	FIT-UP MILLWORK WITH AV DEVICES. COORDINATE WITH DESIGNERS, G.C., E.C. AND FURNITURE/MILLWORK MANUFACTURER	PROVIDE POWER AND LAN CONNECTIVITY SHOWN ON DRAWINGS AND INSTALL ROUGH-INS AS REQUIRED	PROVIDE AND COORDINATE CUTOUTS, WIRING AND DEVICE PLACEMENTS	-
DISPLAY AND PROJECTOR MOUNTING	SUPPLY AND INSTALL STANDARD OR CUSTOM BRACKETS AS REQUIRED	-	PROVIDE BLOCKING AND MISCELLANEOUS METALS AS REQUIRED	-
CEILING MOUNTED LOUDSPEAKER BACKBOXES INTO DRYWALL CEILINGS	PROVIDE	PROVIDE CONDUIT TO SPEAKER BACKBOXES. COORDINATE WITH AV CONTRACTOR ON SITE	PROVIDE CEILING SPEAKER CUTOUTS	-
CEILING MOUNTED LOUDSPEAKERS INTO TILE CEILINGS	PROVIDE	-	PROVIDE CEILING SPEAKER CUTOUTS	-
AV SYSTEMS ELECTRONICS, HARDWARE, RACKS (PERMANENT AND PORTABLE)	PROVIDE; REUSE OWNER SUPPLIED EQUIPMENT AS NOTED IN TENDER DOCUMENTS	-	-	-
AV CONTROL SYSTEM PAGE DESIGN AND TESTING	PROVIDE; WRITE ALL PROGRAMMING CODE; DESIGN AND IMPLEMENT	-	-	-
LOW VOLTAGE RELAY CONTROLLERS (LVC) FOR MOTORIZED PROJECTION SCREENS AND LIFTS	SUPPLY LVC TO E.C.; PROVIDE LOW VOLTAGE CONTROL CABLE	PROVIDE HIGH VOLTAGE CABLE, TERMINATIONS AND LABOR AS REQUIRED	PROVIDE ACCESS HATCH AS REQUIRED FOR BACKBOX ACCESS	-
INTELLIGENT LIGHTING AND BLIND/SHADE SYSTEMS	CONNECT AV CONTROL SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH E.C.	PROVIDE LIGHTING/BLIND SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH A.V.C.	PROVIDE BLINDS SYSTEM AND SHADE MOTOR GROUP CONTROLLERS.	-
CEILING RECESSED PROJECTION SCREENS	PROVIDE	PROVIDE HIGH VOLTAGE CABLE TO LVC	PROVIDE CUTOUT. FINISH CEILING AFTER INSTALLATION.	-
FIRE ALARM CONNECTION	PROVIDE MUTE FUNCTIONALITY ON ALL SOUND SYSTEMS. TO BE TRIGGERED ON ACTIVATION OF FIRE ALARM.	PROVIDE FACP DRY CONTACT RELAY CONNECTION TO AV CONTRACTOR	-	-
REMOVAL OF EXISTING INSTALLED AUDIOVISUAL EQUIPMENT NOT PLANNED FOR REUSE	COORDINATE. IF AV CONTRACTOR IS NOT ONBOARD, COORDINATE WITH AV CONSULTANT.	-	PROVIDE REMOVAL AND DISPOSAL	-

- NOTES:
1) THE SCOPE OF WORK OF THE TRADES AS IT RELATES TO AUDIO VISUAL SYSTEMS IS DESCRIBED IN THE TABLE ABOVE. THE TERM "PROVIDE" MEANS "SUPPLY, INSTALL, TERMINATE, TEST AND COMMISSION"
2) PROVIDE ALL SCOPE INDICATED UNDER ELECTRICAL CONTRACTOR (EC) COLUMN. REFER TO AV DRAWINGS PREPARED BY SMITH AND ANDERSEN WHICH FORMS PART OF THIS CONTRACT

01 DIVISION OF RESPONSIBILITY
E502 SCALE: NTS

AUDIOVISUAL				ELECTRICAL										COMMUNICATION	MECHANICAL	GENERAL
DEVICE DETAILS				REQUIREMENTS										RECEPTACLES	HEAT LOAD	NOTES
SYMBOL NAME	SYMBOL	ID	MOUNTING HEIGHT (TO CENTRE LINE)	FLOOR BOX MODEL	MUDRING BOX	AV BACKBOX/MUDRING SIZE	BACKBOX/MUDRING MOUNTING HEIGHT	VOLTAGE [V]	CURRENT [A]	UNIT POWER [W]	GROUND TYPE	TYPE	QUANTITY	LAN DROPS FOR OWNER NETWORK	UNIT HEAT [BTU]	
65" WALL MOUNT FLAT PANEL DISPLAY		FPD1	1625mm (64") AFF		AV1	(1)2 GANG AV MUDRING + CONDUIT	1830mm (72") AFF	120	2	240	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	818.88	
32" WALL MOUNT FLAT PANEL DISPLAY		FPD2	1625mm (64") AFF		AV2	(1)2 GANG AV MUDRING + CONDUIT	1830mm (72") AFF	120	1	120	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	409.44	
SHORT THROW PROJECTOR		PROJ	2685mm (108") AFF		AV3	(1)2 GANG AV MUDRING + CONDUIT	2685mm (108") AFF	120	4	480	NORMAL	5-15R	(1)QUAD	-	1637.76	
WALL MOUNT PTZ CAMERA		CAM1	2135mm (84") AFF		AV4	(1)2 GANG AV MUDRING + CONDUIT	2135mm (84") AFF	-	-	-	-	-	-	-	-	
CEILING MOUNT PTZ CAMERA		CAM2	AT FINISHED CEILING		AV5	-	-	-	-	-	-	-	-	-	-	
FLOORBOX TABLE MONUMENT		FB1	AT FINISHED FLOOR		AV6	(1)2 GANG OPENING AT FLOORBOX + CONDUIT	AT FINISHED FLOOR	120	1	120	NORMAL	5-15R	(1)DUPEX	(2)NETWORK DROPS	409.44	
PODIUM		FB2	AT FINISHED FLOOR		AV7	(1)4 GANG OPENING AT FLOORBOX + CONDUIT	AT FINISHED FLOOR	120	20.00	2400	ISOLATED	5-20R	(2)DUPEX	(6)NETWORK DROPS	5118	
WALL MOUNT BUTTON CONTROL PANEL		BP	AT SWITCH HEIGHT		AV8	(1)1 GANG AV MUDRING + CONDUIT	AT SWITCH HEIGHT	-	-	-	-	-	-	-	-	
WIRELESS MIC ANTENNA		ANT1	AT FINISHED CEILING		AV9	(1)1 GANG AV BACKBOX + CONDUIT	AT FINISHED CEILING	-	-	-	-	-	-	-	-	
WIRELESS ASSISTIVE LISTENING SYSTEM ANTENNA		ALS	2135mm (84") AFF		AV10	(1)1 GANG AV BACKBOX + CONDUIT	2135mm (84") AFF	-	-	-	-	-	-	-	-	
CEILING MICROPHONE		MIC1	AT FINISHED CEILING		AV11	-	-	-	-	-	-	-	-	-	-	
PENDANT SPEAKERS		S1	AT FINISHED CEILING		AV12	(1)1 GANG AV BACKBOX + CONDUIT	AT FINISHED CEILING	-	-	-	-	-	-	-	-	
CREDENZA RACK		RACK1	AT RECEPTACLE HEIGHT		AV13	(1)PULL BOX SIZED TO CONDUIT REQUIREMENTS + CONDUIT	AT RECEPTACLE HEIGHT	120	20.00	2400	ISOLATED	5-20R	(2)QUAD	(4)NETWORK DROPS	5118	

02 AV COORDINATION MATRIX
E502 SCALE: NTS

RESPONSIBILITY MATRIX						
SYSTEM WORK	ACCESS CONTROL	BIOMETRIC SYSTEM	GUESTROOM ACCESS	VIDEO MANAGEMENT	INTERCOM	DOOR HARDWARE
ROUGH-IN & CONDUIT	ELEC	ELEC	ELEC	ELEC	ELEC	ELEC/DOOR
CABLING & TERMINATION	SEC	SEC/CBL	CBL	CBL	SEC/CBL	DOOR/SEC
FIELD DEVICE INSTALLATION & TERMINATION	SEC	SEC	SEC	SEC	SEC	DOOR/SEC
PROGRAMMING	SEC	SEC	SEC	SEC	SEC	N/A
COMMISSIONING & TESTING	SEC	SEC	SEC	SEC	SEC	DOOR/SEC

ELEC = ELECTRICAL CONTRACTOR (DN. 26)
CBL = STRUCTURED CABLING CONTRACTOR (DN. 27)
SEC = SECURITY CONTRACTOR (DN. 28)
DOOR = DOOR HARDWARE CONTRACTOR (DN. 8)

NOTES:
1. PROVIDE ALL CONDUIT BACKBOX AND PULLSTRING AS SHOWN ON THE SECURITY DRAWINGS PREPARED BY THE HDI GROUP, WHICH FORMS PART OF THIS CONTRACT.

03 SECURITY RESPONSIBILITY MATRIX
E502 SCALE: NTS

No.	ISSUANCE	DATE
1	ISSUED FOR 100% CD	2024-11-05
2	ISSUED FOR TENDER	2024-11-15

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
AV REQUIREMENTS

THEHIDIGROUP
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DATE: FEB 2024
PROJECT NO: 2023-0059
DRAWN BY: MP
CHECKED BY: AT

MECHANICAL EQUIPMENT & MOTOR STARTER SCHEDULE																						
EQUIPMENT			MOTOR								STARTER						POWER				REMARKS	
TAG	DESCRIPTION	LOCATION	KW	HP	VOLTS	PH	FLA (A)	MCA (A)	MOP (A)	FED FROM	TYPE	HAND-OFF-AUTO SELECTOR SWITCH	RUNNING PILOT LIGHT GREEN	OFF PILOT LIGHT RED	N.O.	N.C.	F.A. START UP	F.A. SHUT DOWN	BREAKER SIZE	WIRE SIZE		LIFE SAFETY
FC-1	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	OFFICE 109			208	1	-	0.8	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-2	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	FORENSIC TEACHING CLASSROOM 104			208	1	-	1.4	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-3	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	FORENSIC TEACHING CLASSROOM 104			208	1	-	1.4	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-4	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	FORENSIC GARAGE 105			208	1	-	0.8	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-5	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	TEACHING LAB 108			208	1	-	1.4	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-6	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	LOUNGE 103			208	1	-	1.8	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-7	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	AV. GRAD OFFICE 110			208	1	-	0.8	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-8	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	FLEX OFFICE 112			208	1	-	0.8	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-9	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	MULTIPURPOSE SPACE 114			208	1	-	1.8	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-10	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	DRONE RESEARCH LAB 115			208	1	-	1.8	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-11	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	AV GARAGE 111			208	1	-	0.8	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
FC-12	VARIABLE REFRIGERANT FLOW (INDOOR UNITS)	FLEX GARAGE 113			208	1	-	0.8	15	PP-2N2									15A-2P	2# 12 AWG (CU) IN 21mmC		
CU-1	VARIABLE REFRIGERANT FLOW (OUTDOOR UNITS)				208	3			34.1	35	PP-2N2								35A-3P	3# 10 AWG (CU) IN 21mmC		
CU-2	VARIABLE REFRIGERANT FLOW (OUTDOOR UNITS)				208	3			34.1	35	PP-2N2								35A-3P	3# 10 AWG (CU) IN 21mmC		
BS-1	BRANCH SELECTOR BOX				208	1			0.6	15	PP-2N2								15A-2P	2# 12 AWG (CU) IN 21mmC		
BS-2	BRANCH SELECTOR BOX				208	1			0.6	15	PP-2N2								15A-2P	2# 12 AWG (CU) IN 21mmC		
FFH-1	WALL FORCE FLOW HEATER		2	-	208	1				15	PP-2N2								15A-2P	2# 12 AWG (CU) IN 21mmC		
BBH-1	BASEBOARD HEATER		1.125	-	208	1				15	PP-2N2								15A-2P	2# 12 AWG (CU) IN 21mmC		
EDH-1	DUCT HEATER		12		208	1				80	PP-2N2								80A-2P	2# 8 AWG (CU) IN 21mmC		
UH-1	ELECTRIC UNIT HEATER		-	1/30	208	1				15	PP-2N2								15A-2P	2# 12 AWG (CU) IN 21mmC		
UH-2	ELECTRIC UNIT HEATER		-	1/30	208	1				15	PP-2N2								15A-2P	2# 12 AWG (CU) IN 21mmC		
SF-1	SUPPLY FAN		-	0.5	120	1				15	PP-2N2								15A-1P	2# 12 AWG (CU) IN 21mmC		
MUA-1	MAKE-UP (VENTILATION) AIR UNIT				575	3	76.8	95.7			DP-6AM2								100A-3P	3#3 AWG (CU) IN 35mmC		
EF-1	ROOF MOUNTED EXHAUST FAN			1/4	120	1					PP-2N2								15A-1P	2# 12 AWG (CU) IN 21mmC		
EF-2	ROOF MOUNTED EXHAUST FAN			1/4	120	1					PP-2N2								15A-1P	2# 12 AWG (CU) IN 21mmC		
EF-3	ROOF MOUNTED EXHAUST FAN			1/5	120	1					PP-2N2								15A-1P	2# 12 AWG (CU) IN 21mmC		
EF-4	LABORATORY EXHAUST FAN			3/4	575	3					DP-6AM2								15A-3P	3# 12 AWG (CU) IN 21mmC		
EF-5	ROOF MOUNTED EXHAUST FAN			1/5	120	1					PP-2N2								15A-1P	2# 12 AWG (CU) IN 21mmC		
EF-6	IN-LINE CENTRIFUGAL		0.39	-	120	1					PP-2N2								15A-1P	2# 12 AWG (CU) IN 21mmC		
P-1	DOMESTIC HOT WATER RECIRCULATION PUMP	M&E ROOM 201		1/4	120	1					PP-2N2								15A-1P	2# 12 AWG (CU) IN 21mmC		
SP-1 A&B	WEEPING TILE SUMP PIT	M&E ROOM 121	2		575	3					DP-6AM2								15A-3P	3# 12 AWG (CU) IN 21mmC		
AC-1		120 LAN ROOM			208	1				20	PP-2N2								15A-2P	2# 12 AWG (CU) IN 21mmC		
AC-2		107 LAB			208	1				12.3	PP-2N2								15A-2P	2# 12 AWG (CU) IN 21mmC		
CU-3					208	1				14.23	20	PP-2N2							15A-2P	2# 12 AWG (CU) IN 21mmC		
CU-4					208	1				12.3	20	PP-2N2							15A-2P	2# 12 AWG (CU) IN 21mmC		
DHW-1	DOMESTIC HOT WATER HEATER	M&E ROOM 201			208	3	34	42.5	85		PP-2N2								45A-3P	3# 8 AWG (CU) IN 21mmC		
DHW-2	DOMESTIC HOT WATER HEATER	M&E ROOM 201			208	3	34	42.5	85		PP-2N2								45A-3P	3# 8 AWG (CU) IN 21mmC		

No.	ISSUANCE	DATE
1	ISSUED FOR DESIGN DEVELOPMENT	2024-03-01
2	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
3	ISSUED FOR PERMIT	2024-09-06
4	ISSUED FOR ESA	2024-10-21
5	ISSUED FOR 100% CD	2024-11-05
6	ISSUED FOR TENDER	2024-11-15

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
MECHANICAL SCHEDULE

THEHIDIGROUP
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DATE: FEB 2024
PROJECT NO: 2023-0059
DRAWN BY: MP
CHECKED BY: AT

UTM-PRE ENGINEERED BUILDING

Lighting Fixture Schedule
Project No.: 2023-0059
Issued For



Type	Luminaire Description	Lamp & Wattage	Control Protocol	Input voltage	Finish	Mounting	Location	Manufacturer & Catalogue #	Notes
LD1	NOMINAL 3" DIA. RECESSED ADJUSTABLE DOWNLIGHT.	8W, 800LMNS, 3500K, 90CRI, LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	RECESSED	VESTIBULE & CORRIDOR	ACULUX: INITIA INIT3 INIT3 A-08LM-35K-90CIR-X-EZ1-120-X OR APPROVED EQUAL	
LD2	NOMINAL 3" DIA. RECESSED DOWNLIGHT.	8W, 800LMNS, 3500K, 90CRI, LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	RECESSED	WASHROOMS	ACULUX: INITIA INIT3 INIT3 D-08LM-35K-90CIR-X-EZ1-120-X OR APPROVED EQUAL	
LR3	2'X2' LED FLAT PANEL	45W, 4800LMNS, 4000K, 80CRI, LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	SUSPENDED	DRONE REASERCH LAB	LITHONIA LIGHTING: EPANL LED EPANL-2X2-4800LM-80CRI-40K-MIN10-ZT OR APPROVED EQUAL	
LS1	4FT LENGTH DIRECT LED LINEAR FIXTURE	9.7WFT, 1075LMNS/FT, 4000K, 90CRI, LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	SUSPENDED	CLASSROOMS, CORRIDOR, LOUNGE & MULTIPURPOSE SPACE	A LIGHT: ACL2ST - ACCOLED ACL2ST-4-DLH-40-90CRI-U-X-HE-X OR APPROVED EQUAL	
LS1a	4FT LENGTH DIRECT LED LINEAR TYPE	4.8WFT, 443LMNS/FT, 3500K, 90CRI LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	SURFACE WALL	WASHROOM	A LIGHT: ACL2ST - EAQL2ST-4-DLS-35-90CRI-U-DL-R-x-D OR APPROVED EQUAL	
LS2	4FT/8FT LENGTH VAPOR-TIGHT FEM LED LUMINARE	50W, 8000LMNS, 4000K, 90CRI, LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	SUSPENDED /SURFACE	GARAGES, LAB & TEACHING LAB	LITHONIA LIGHTING: FEM LED FEM-L48-8000LM-X-MD-120-GZ10-40K-90CRI FEM-L96-8000LM-X-MD-120-GZ10-40K-90CRI OR APPROVED EQUAL	
LS3	4FT LENGTH SURFACE MOUNT LED STRIP LUMINARE	35.3W, 4000LMNS, 4000K, 80CRI, LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	SUSPENDED /SURFACE	SERVICE ROOMS	LITHONIA LIGHTING: CSS CSS-L48-4000LM-MVOLT-40K-80CRI OR APPROVED EQUAL	
	DOUBLE REMOTE HEAD	5WLED	NON-DIM	24V	N/A	WALL/CEILING	VARIOUS	BELLUCE CANADA: NOVA SERIES CAT# SR-2-24V-5WLED OR APPROVED EQUAL	
BU W/ REMOTE HEADS	BATTERY UNIT WITH REMOTE DOUBLE HEADS	96W LED	NON-DIM	120V	N/A	WALL/CEILING	VARIOUS	BELLUCE CANADA: NOVA SERIES CAT# NV-24-X-2SR-X-120V OR APPROVED EQUAL	30 MIN RUNTIME UNDER FULL LOAD WITH 20% SPARE CAPACITY
X1	DIE-CAST ALUMINUM PICTOGRAM EDGE-LIT EXIT SIGN	3.5W LED	NON-DIM	120V	N/A	WALL/CEILING	Exit Signs	AIM LIGHT - RPFL SERIES	UTM STANDARD

01 LIGHTING SCHEDULE
E702 NTS

Floor Box Type	No Gangs	Gang Use	Size	Location	Manufacturer & Accessories Product #
FB1	4	1-Power, 1-Data, 2-AV	17-3/4" length x 11-15/16" width x 2-1/2" height	AV Grad. Office, Flex Office	Legrand Wiremold CAT #RFB4R25OG (1) RFBADCE20TR - 20A Receptacle (3) RFBADCE - For Comms & AV Device
FB2	10	2-Power, 2-Data, 4-AV	15-7/8" length x 10-5/8" width x 5-1/2" height	Forensic Teaching Classroom	Legrand Wiremold RFB410R55OG (1) RFB410-2G - 2 Gang Adapter Plate (2) RFBADCE20TR - 20A Receptacle (6) RFBADCE - For Comms & AV Device
FB3	6	4-Power, 1-Data	16-1/4" length x 10-3/8" width x 3" height	Multipurpose Space	Legrand Wiremold RFB46R30OG (4) RFBADCE20TR - 20A Receptacle (1) RFBADCE - For Comms Device
FB4	10	4-Power, 1-Data, 2-AV	15-7/8" length x 10-5/8" width x 5-1/2" height	Multipurpose Space	Legrand Wiremold RFB410R55OG (2) RFB410-2G - 2 Gang Adapter Plate (4) RFBADCE20TR - 20A Receptacle (3) RFBADCE - For Comms & AV Device

NOTES:
1. THIS CONTRACTOR TO PROVIDE RECESSED (FLUSH MOUNTED) FLOOR BOX LEGRAND. RFB SERIES SUITABLE FOR SLAB ON GRADE APPLICATION AS INDICATED ABOVE. BOX SIZE TO ACCOMMODATE # OF OPENINGS, OUTLETS AND NETWORK DROPS INDICATED ABOVE.
2. COVER FINISHES TO BE SELECTED AT THE TIME OF SHOP DRAWINGS REVIEW BY ARCHITECT.

02 FLOOR BOX SCHEDULE
E702 NTS

No.	ISSUANCE	DATE
1	ISSUED FOR DESIGN DEVELOPMENT	2024-03-01
2	ISSUED FOR DESIGN DEVELOPMENT	2024-03-21
3	ISSUED FOR PERMIT	2024-09-06
4	ISSUED FOR ESA	2024-10-21
5	ISSUED FOR TENDER	2024-11-05
6	ISSUED FOR 100% CD	2024-11-05
7	ISSUED FOR TENDER	2024-11-15

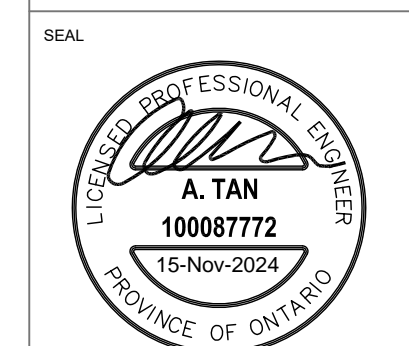
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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
LIGHTING & FLOOR BOX SCHEDULE



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DATE: FEB 2024
PROJECT NO: 2023-0059
DRAWN BY: MP
CHECKED BY: AT

FIRE ALARM SCHEDULE																		
ZONE #	ZONE DESCRIPTION	PULL STATION (FZ)	HEAT OR SMOKE DETECTOR (FZ)	SUPERVISED VALVE (SZ)	SPRINKLER FLOW SWITCH (FZ)	LOSS OF PRESSURE (SZ)	DUCT DETECTOR (FZ)	STARTUP SIGNAL (CZ)	SHUTDOWN SIGNAL (CZ)	STROBE CCT. A (HZ)	STROBE CCT. B (HZ)	HORN CCT. 1 (BZ)	HORN CCT. 2 (BZ)	HANDSET (PZ)	FIRE ALARM CONNECTION (CZ)	AUX. SYSTEM TROUBLE (SZ)	AUX. SYSTEM ALARM (FZ)	REMARKS
1	GROUND	*	*							*	*	*	*					
2	MEZZANINE		*							*	*	*	*					
3	SV-1 DOUBLE CHECK VALVE ASSEMBLY IN			*														
4	SV-2 DOUBLE CHECK VALVE ASSEMBLY OUT			*														
5	SV-3 SHUT - OFF VALVE DCVA TEST			*														
6	SV-4 MAIN SHUT - OFF SPRINKLER HEADER			*														
7	SV-FG WET SPR. SYSTEM ISOLATION (GROUND & MEZZ FLOOR)			*														
8	SV-PA PREACTION SPR. SYSTEM ISOLATION (GROUND FLOOR)			*														
9	SV-W5 WINDOW SPR. SYSTEM ISOLATION (GROUND FLOOR)			*														
10	LPS-1 LOW AIR PRESSURE GROUND LEVEL (PREACTION)			*														
11	FS-FG WET SPR. SYSTEM FLOW SWITCH (GROUND & MEZZ FLOOR)				*													
12	FS-PA PREACTION SPR. SYSTEM FLOW SWITCH				*													
13	FS-W5 WINDOW SPR. SYSTEM FLOW SWITCH				*													
14	PS-1 WATER FLOW PS GROUND LEVEL (PREACTION)				*													
15	BAS COMMUNICATION (ALARM)														*			
16	BAS COMMUNICATION (TROUBLE)														*			
17	MUA-1						*	*							*			UNIT TO SHUTDOWN ONLY WHEN DUCT SMOKE DETECTOR ACTIVATES
18	AV RACK CREDENZA MULTIPURPOSE SPACE														*			
19	AV RACK PODIUM FORENSIC CLASSROOM														*			
	PROVIDE 20% SPARE CAPACITY																	

1 FIRE ALARM SCHEDULE
E703 N.T.S

FIRE ALARM SEQUENCE OF OPERATION
<p>1.0. GENERAL</p> <p>1.1. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF DEVICES. PROVIDE ISOLATION MODULES NOT SHOWN TO MEET ULC524 REQUIREMENTS.</p> <p>1.2. ALL FIRE ALARM RISERS SHALL BE ULC LISTED 2 HOUR FIRE RATED CABLE.</p> <p>2.0. FIRE ALARM SYSTEM</p> <p>2.1. SYSTEM SHALL BE BY MIRCOP, CONVENTIONAL, SINGLE STAGE, CLASS A WIRING. PROVIDE ALL REQUIRED ACCESSORIES, INCLUDING RELAY MODULES, DACT/DIALER, ETC AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM. SYSTEM SHALL BE INTEGRATED TO THE EXISTING NOTIFIER SYSTEM AT CENTRAL UTILITY PLANT (CUP) BUILDING.</p> <p>2.2. ALL ADJACENT FIRE ALARM NOTIFICATION DEVICES TO BE ON ALTERNATING CIRCUITS.</p> <p>2.3. PROVIDE THREE (3) NEW FIRE ALARM MONITORING MODULES AT CENTRAL UTILITY PLANT (CUP) BUILDING. MODULES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. MODULES TO BE CONFIGURED SUCH THAT AN ALARM, TROUBLE, OR SUPERVISORY FIRE ALARM PANEL CONDITION IN THE NEWLY CONSTRUCTED BUILDING WILL ANNUNCIATE AT THE CUP BUILDING FIRE ALARM PANEL.</p> <p>2.4. PROVIDE ALLOWANCE FOR ADDITION OF 10% ADDITIONAL DEVICES TO THE FIRE ALARM SYSTEM WITH ALL ASSOCIATED PROGRAMMING, TO BE AS DIRECTED BY AUTHORITIES HAVING JURISDICTION OR ENGINEER AT LATER DATE.</p> <p>2.5. PROVIDE AND ARRANGE FOR TELEPHONE CONNECTION OF FIRE ALARM SYSTEM TO LOCAL FIRE DEPARTMENT OR ULC LISTED MONITORING COMPANY.</p> <p>2.6. FIRE ALARM RISER WIRING BETWEEN THE FIRE ALARM PANEL AND THE FIRE ALARM ISOLATING MODULES ON EACH FLOOR SHALL BE ULC LISTED 2 HOUR FIRE RATED CABLE.</p> <p>3.0. SEQUENCE OF OPERATION</p> <p>3.1. ACTUATION OF ANY ALARM INITIATING DEVICE IN THIS BUILDING SHALL CAUSE THE FOLLOWING:</p> <p>3.1.1. TURN ON THE RESPECTIVE RED ALARM FOR THE ZONE LED AT THE CONTROL PANEL LOCATED IN THE ELECTRICAL ROOM AND ANNUNCIATOR PANEL LOCATED IN THE VESTIBULE AS INDICATED ON THE PLANS.</p> <p>3.1.2. TURN ON RED LED INDICATOR AND ALARM BUZZER TONE AT MAIN MONITORING PANEL AT CENTRAL UTILITY PLANT AND CAMPUS SAFETY FIRE ALARM PANELS.</p> <p>3.1.3. DISPLAY THE ACTIVATED DEVICE ON THE LCD DISPLAY AT THE MAIN FIRE ALARM CONTROL PANEL AND ALL FIRE ALARM REMOTE ANNUNCIATOR PANELS.</p> <p>3.1.4. A TEMPORAL PATTERN ALARM SIGNAL TONE SHALL OCCUR WITHIN THE CONTROL PANEL AND ANNUNCIATORS.</p> <p>3.1.5. CAUSE ALL AUDIBLE NOTIFICATION DEVICES TO SOUND CONTINUOUSLY WITH TEMPORAL PATTERN THROUGHOUT THE BUILDING UNTIL SILENCED.</p> <p>3.1.5.1. AFTER A PERIOD OF NOT MORE THAN 10 MINUTES, THE SILENCED AUDIBLE SIGNAL DEVICES WILL BE RESTORED TO CONTINUOUS AUDIBLE SIGNAL IF THE ALARM HAS NOT BEEN ACKNOWLEDGED.</p> <p>3.1.6. THE AUDIBLE NOTIFICATION DEVICES SHALL CONTINUE TO SOUND DURING ALARM CONDITIONS UNTIL MANUALLY OR AUTOMATICALLY SILENCED. THE MANUAL SILENCING VIA A SIGNAL SILENCE SWITCH ON THE FIRE ALARM SYSTEM CONTROL PANEL, SHALL BE INHIBITED DURING THE FIRST MINUTE OF ALARM.</p> <p>3.1.7. ACTIVATION OF A SUBSEQUENT ALARM INITIATING DEVICE SHALL REACTIVATE THE ALARM SIGNALS AFTER THEY HAVE EITHER TIMED OUT OR HAVE BEEN MANUALLY SILENCED.</p> <p>3.1.8. CAUSE ANY VISUAL NOTIFICATION DEVICE TO ACTIVATE. VISUAL SIGNALS MUST BE SYNCHRONIZED WITH THE AUDIBLE SIGNALS AND WITH ALL OTHER VISUAL SIGNAL DEVICES IN EACH FLOOR AREA.</p> <p>4.0. INTERLOCK TO MECHANICAL EQUIPMENT</p> <p>4.1. FRESH AIR UNITS</p> <p>4.1.1. UNLESS THE CORRESPONDING DUCT SMOKE DETECTOR IS ACTIVATED, THE FRESH AIR UNIT IS TO CONTINUE TO RUN DURING FIRE ALARM CONDITION. IMMEDIATELY SHUT DOWN FRESH AIR UNIT UPON ACTIVATION OF DUCT SMOKE DETECTOR.</p> <p>5.0. SIGNALS TO MONITORING STATION.</p> <p>5.1. PROVIDE PHONE LINE FOR REMOTE MONITORING SERVICE. REGISTER AND CONNECT TO REMOTE MONITORING SERVICE ON BEHALF OF OWNER.</p> <p>5.2. PROVIDE CONNECTIONS TO FIRE ALARM PANEL AT CENTRAL UTILITY PLANT (C.U.P.). FIRE ALARM PANEL AT C.U.P. SHALL DISPLAY TROUBLE INDICATIONS FOR ALARM TROUBLE OR SUPERVISORY AT THIS NEW FIRE ALARM PANEL.</p> <p>5.3. PROVIDE INDICATIONS AS PER 3.1.2. ABOVE.</p> <p>6.0. INTERLOCK TO AV EQUIPMENT.</p> <p>6.1. UPON ACTIVATION OF FIRE ALARM SYSTEM, SEND SIGNAL TO AV RACK IN CREDENZA (MULTIPURPOSE ROOM) AND PODIUM (TEACHING CLASSROOM) TO MUTE SOUND SYSTEM.</p>

2 FIRE ALARM SEQUENCE OF OPERATION
E703 N.T.S

No.	ISSUANCE	DATE
1	ISSUED FOR PERMIT	2024-09-06
2	ISSUED FOR ESA	2024-10-21
3	ISSUED FOR TENDER	2024-11-05
4	ISSUED FOR 100% CD	2024-11-05
5	ISSUED FOR TENDER	2024-11-15

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

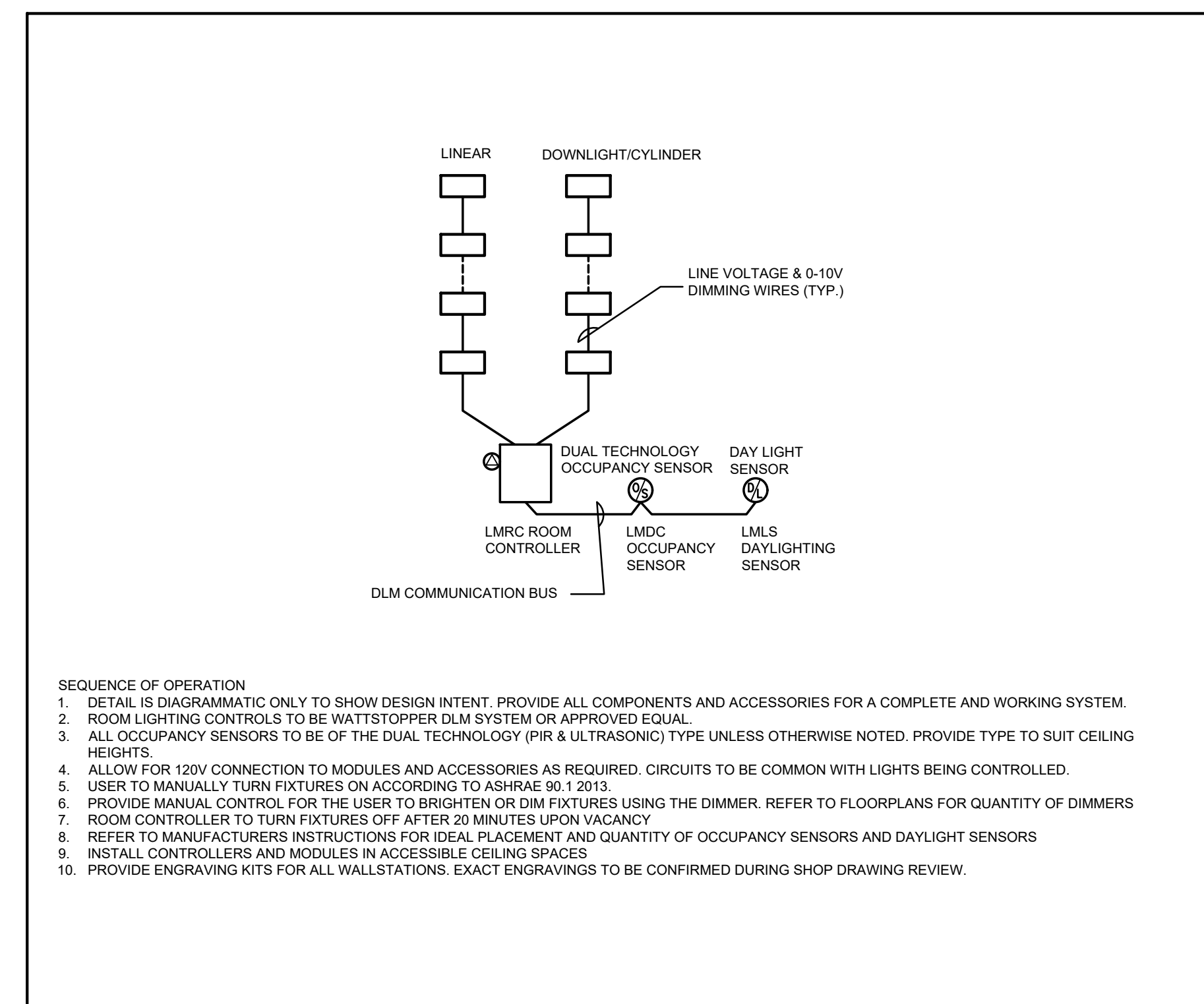
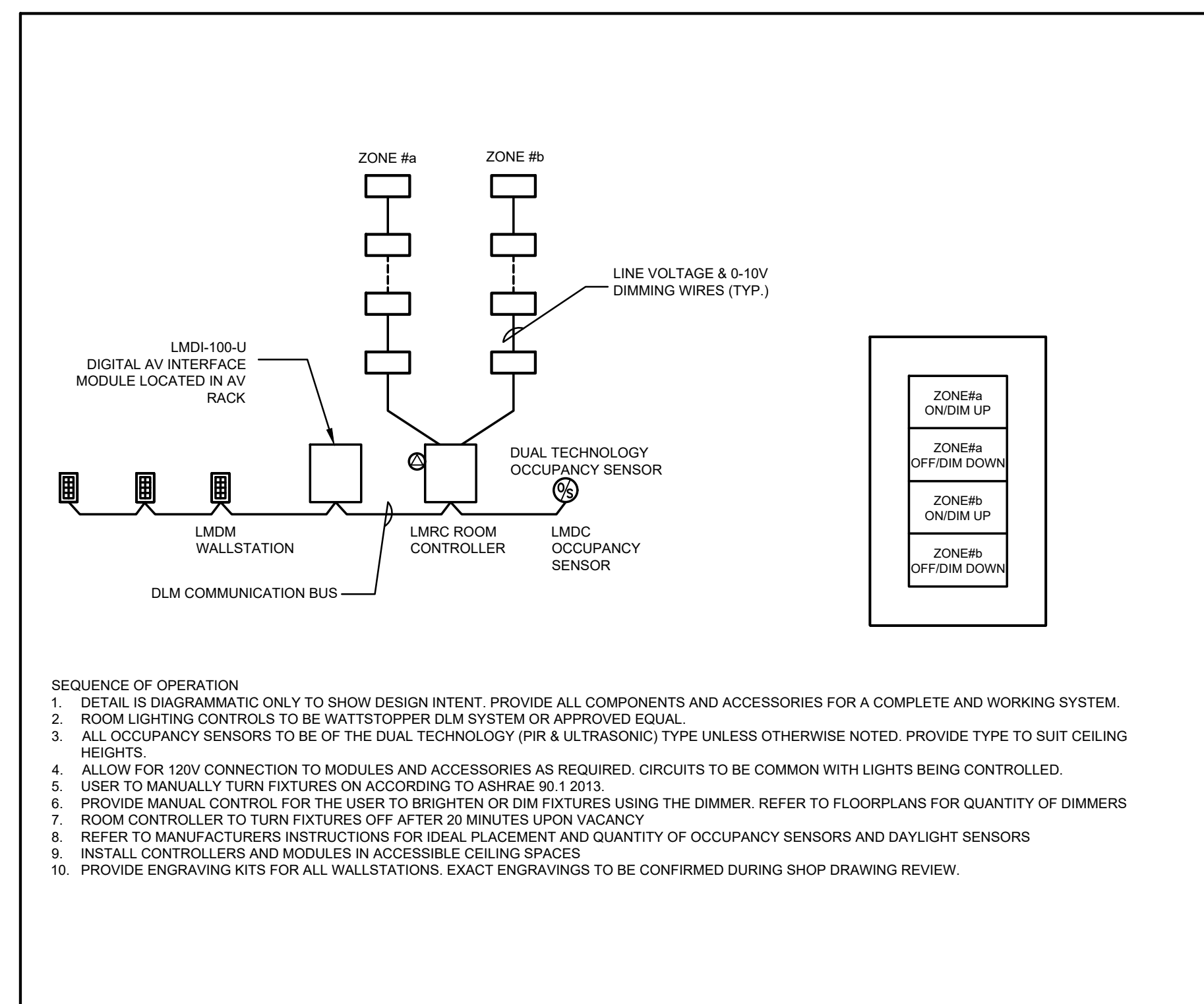
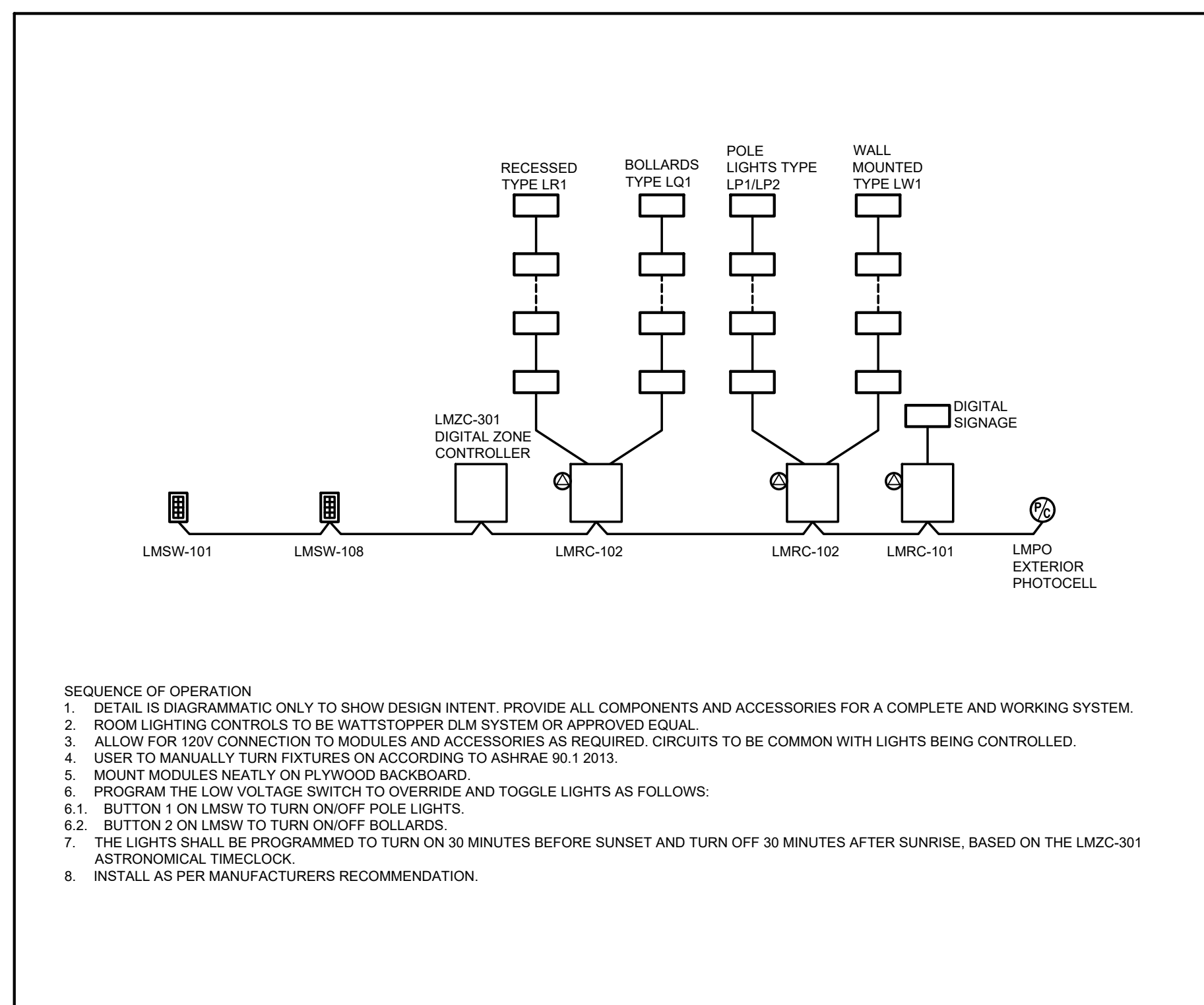
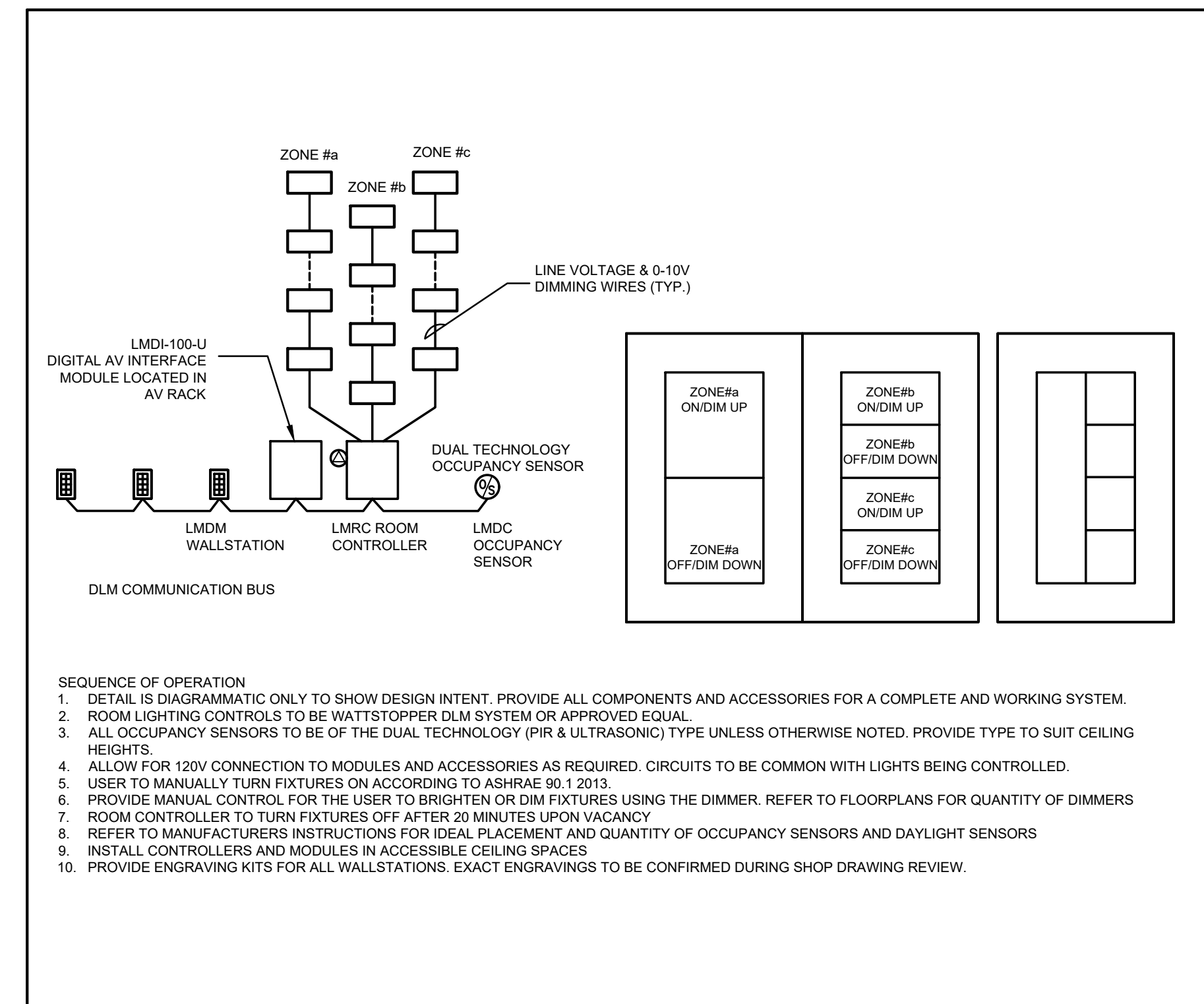
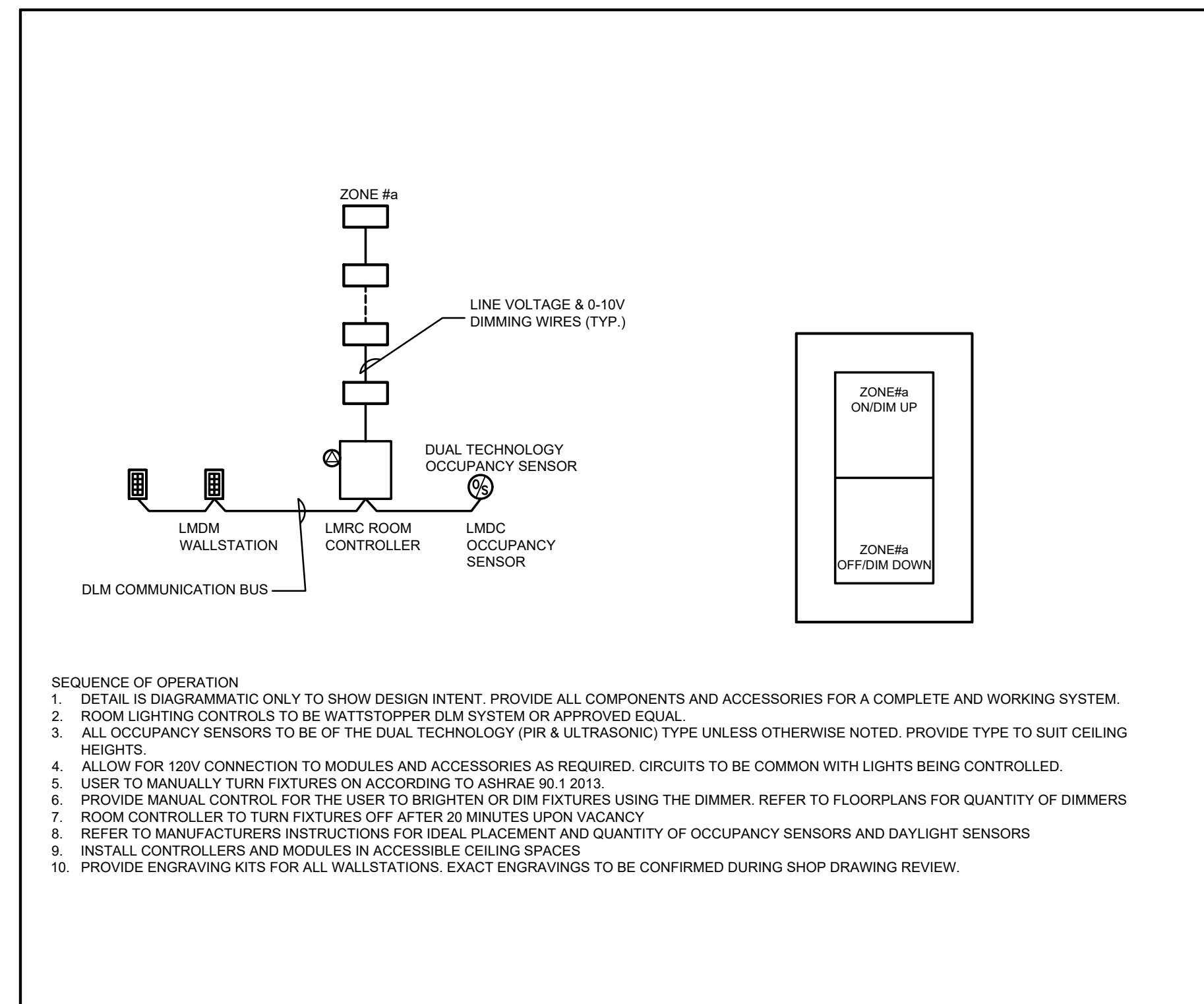
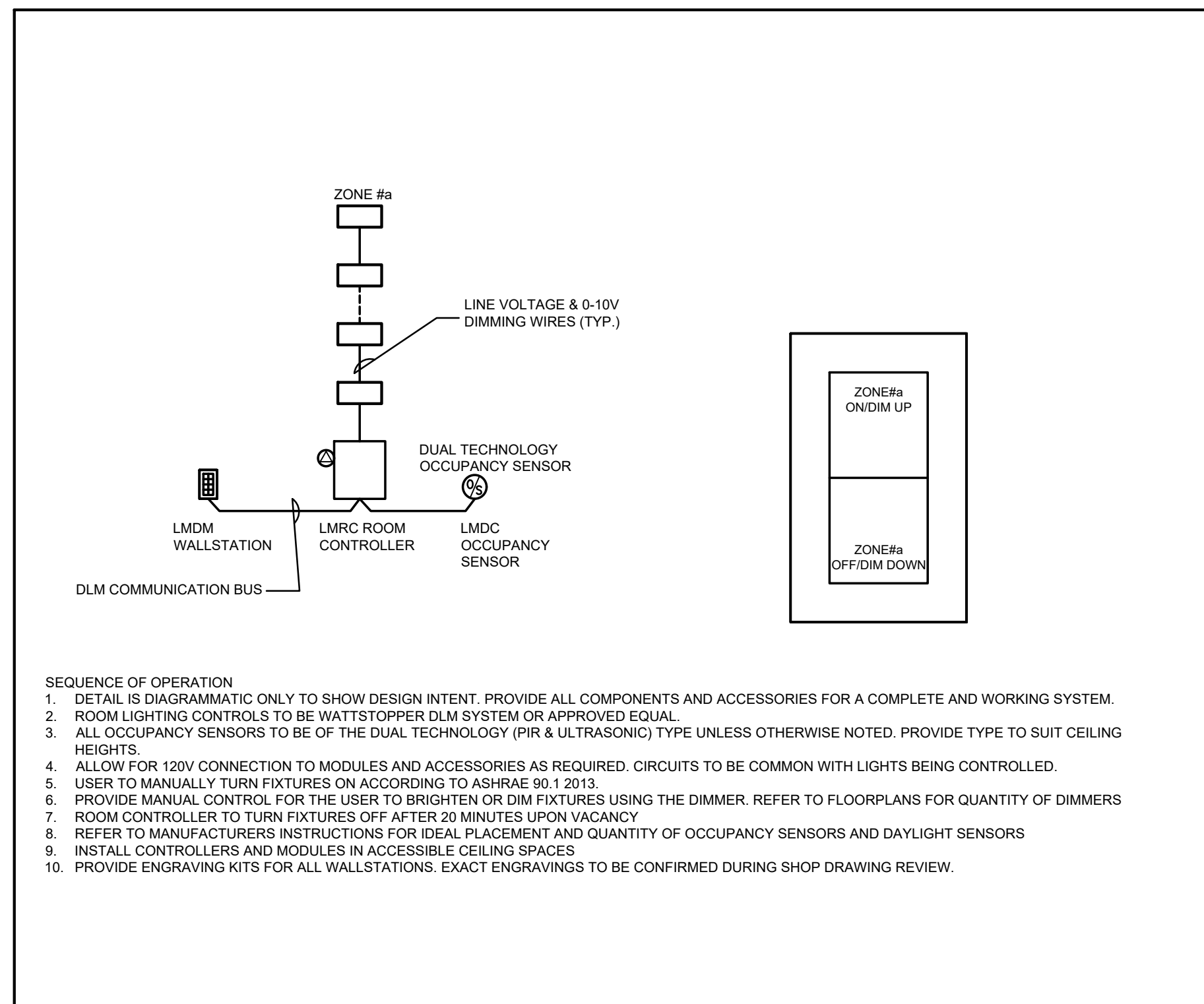
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1	ISSUED FOR ESA	2024-10-21
2	ISSUED FOR 100% CD	2024-11-05
3	ISSUED FOR TENDER	2024-11-15

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TITLE
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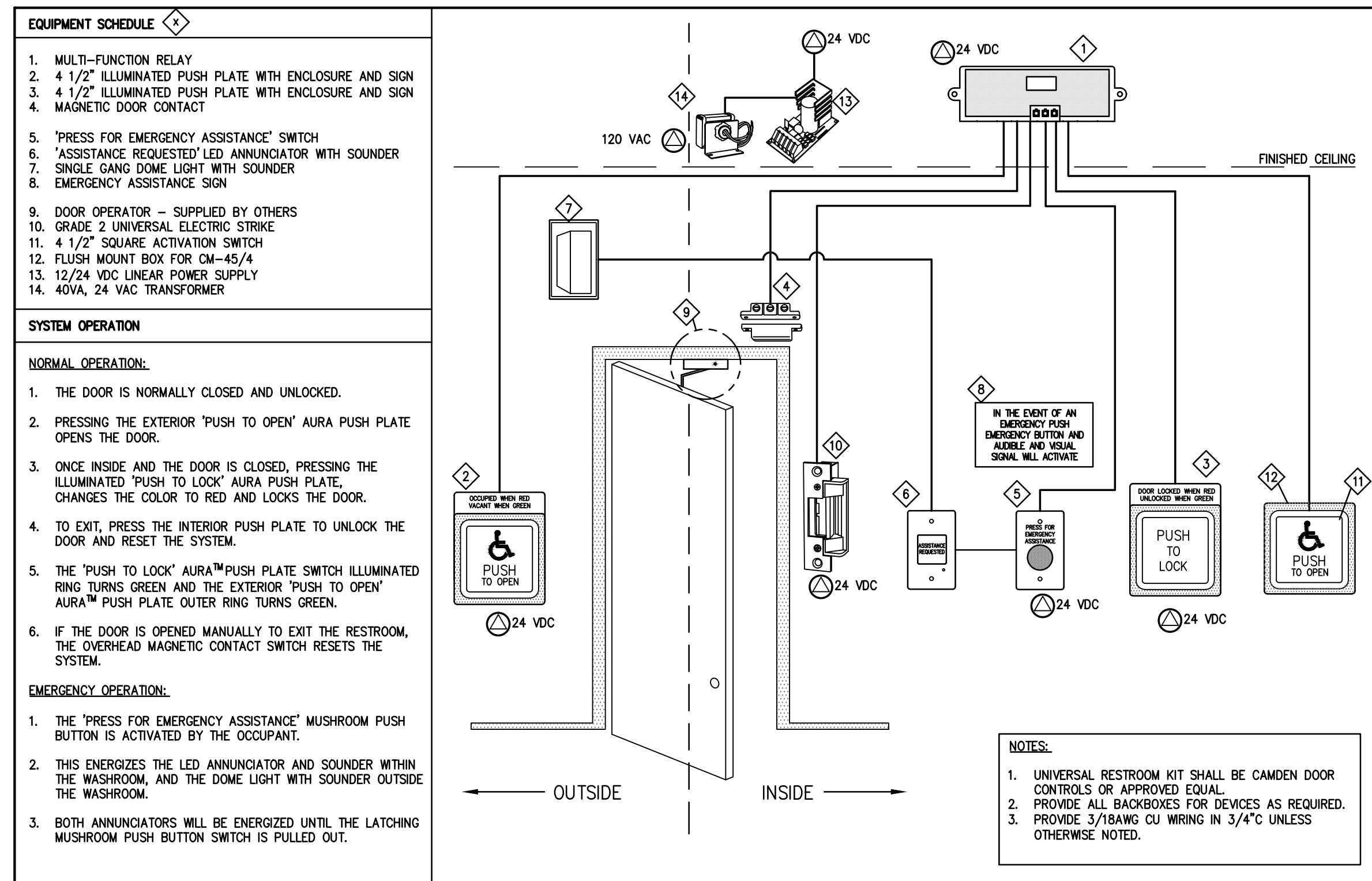
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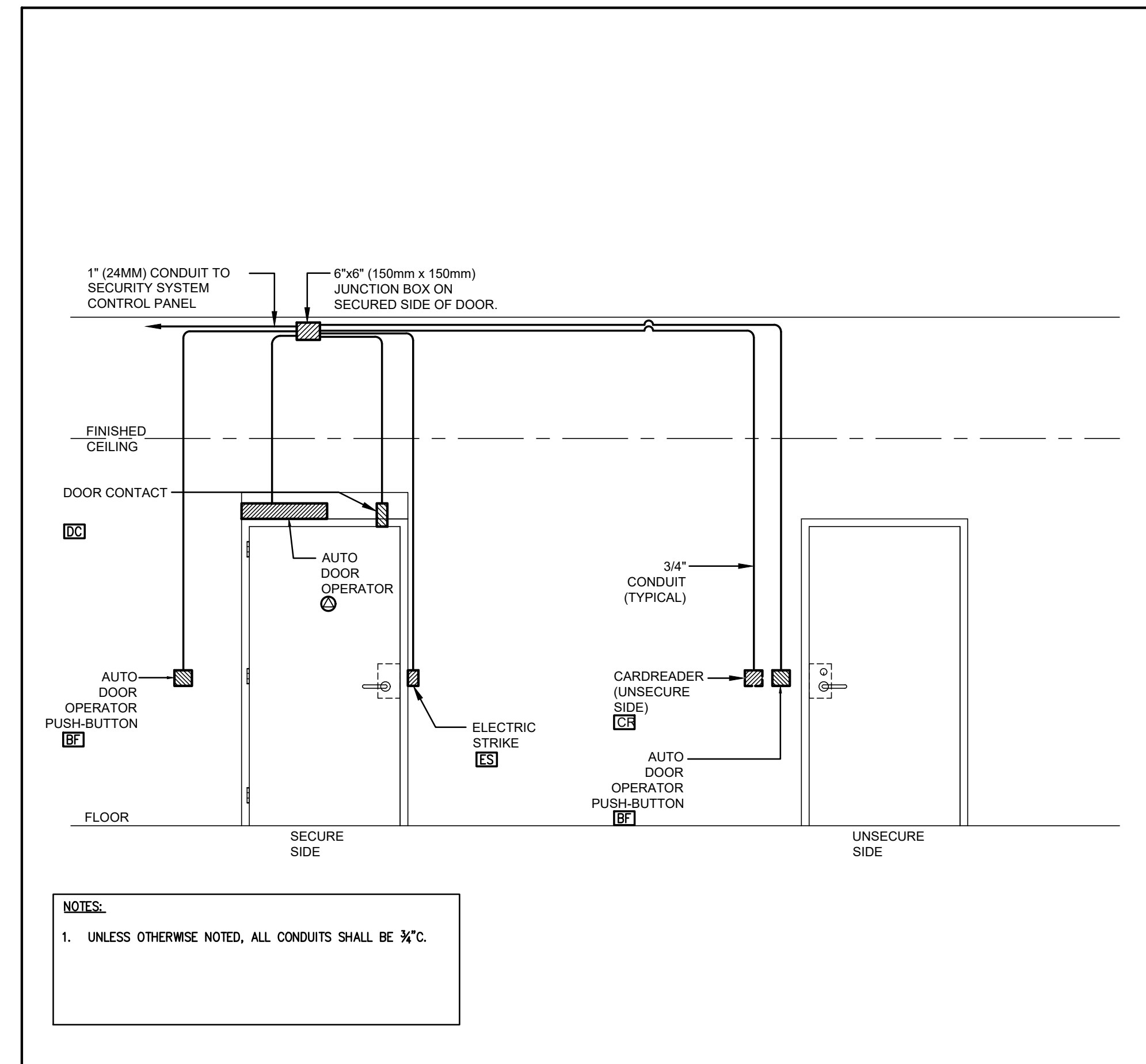
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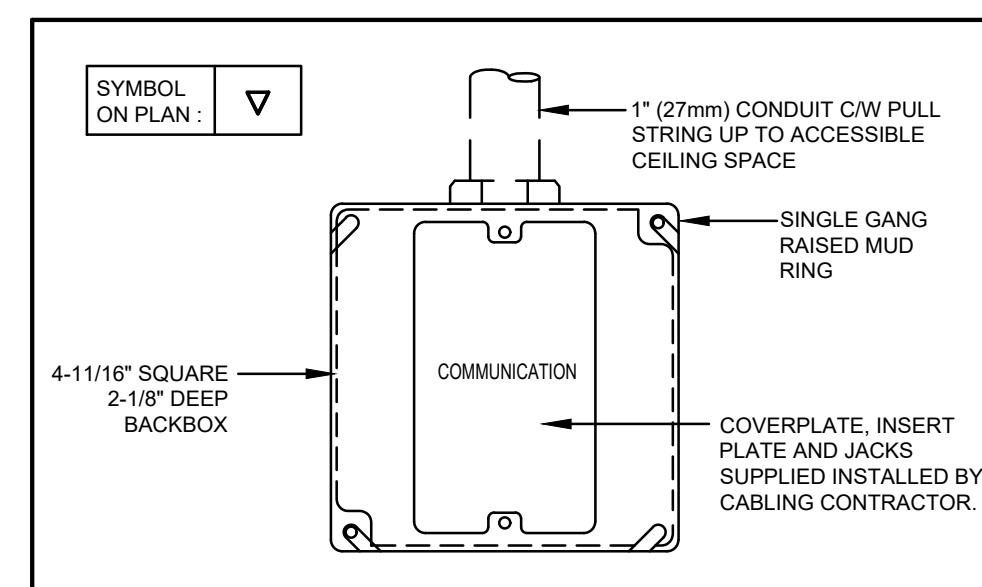
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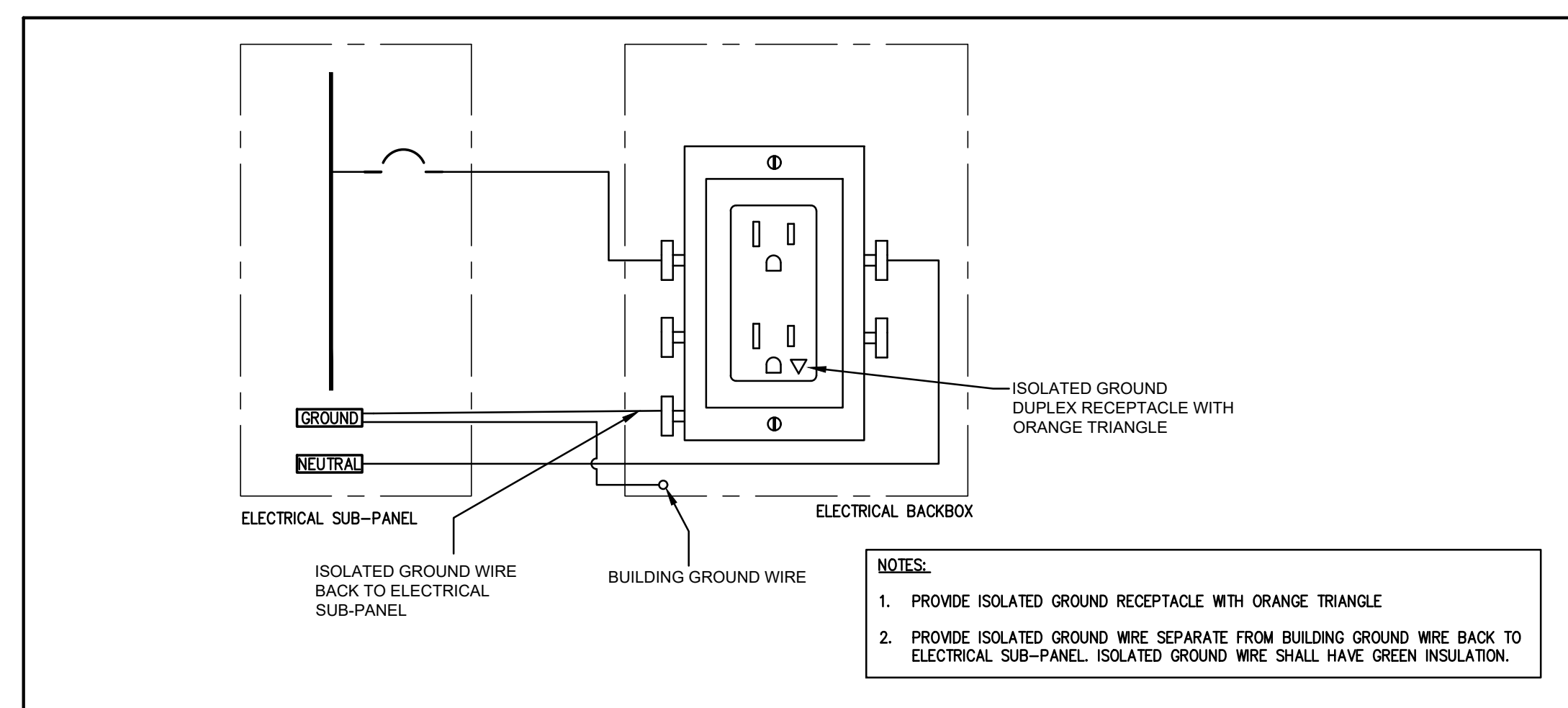
1 UNIVERSAL RESTROOM KIT
E-802 SCALE: NTS



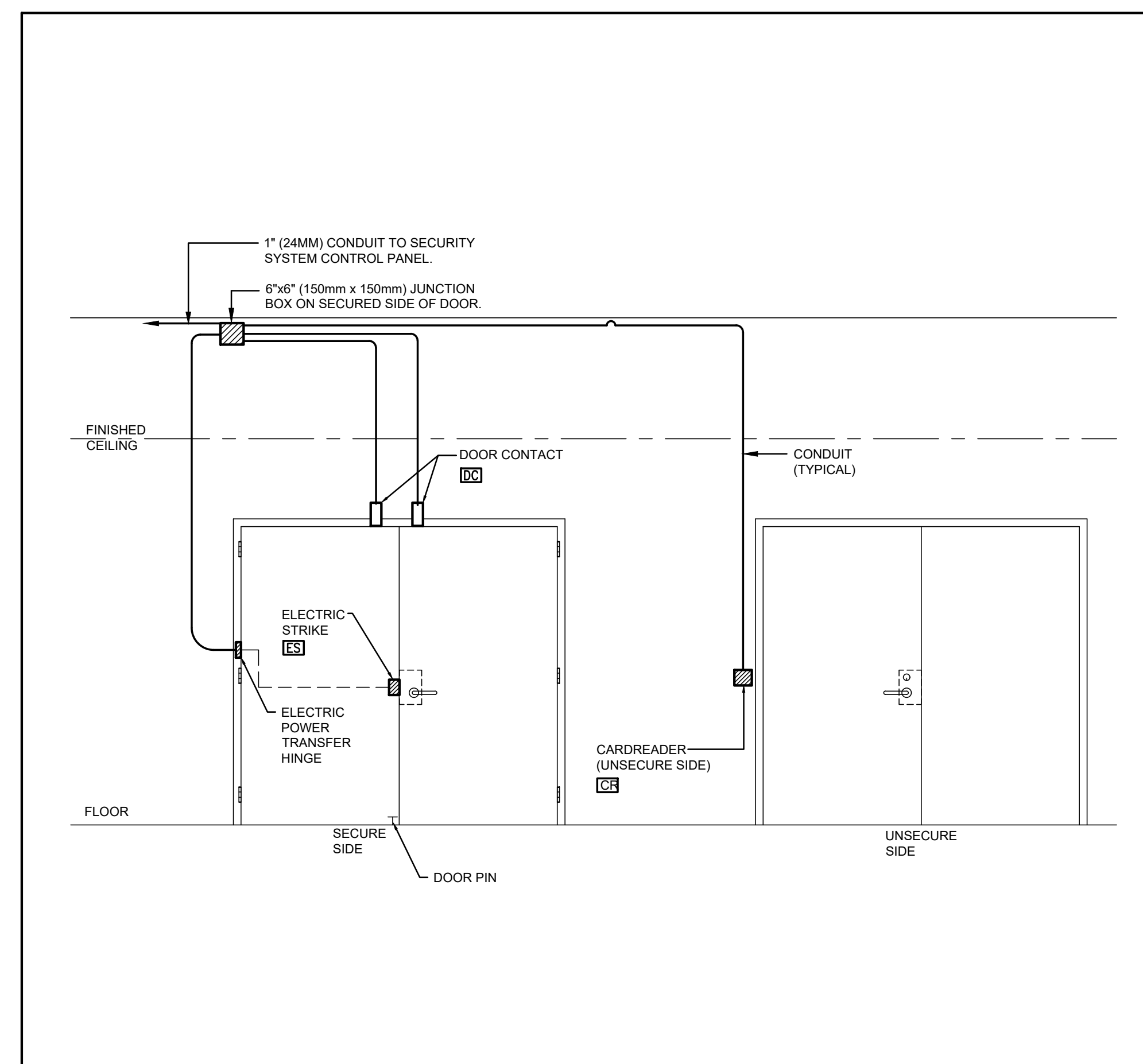
02 TYPICAL SINGLE DOOR WITH ELECTRIC STRIKE
E-802 N.T.S.



04 SINGLE COMMUNICATION WALL OUTLET
E-802 SCALE: NTS



05 ISOLATED GROUND RECEPTACLE
E-802 SCALE: NTS



03 TYPICAL DOUBLE DOOR WITH ELECTRIC STRIKE
E-802 N.T.S.

No.	ISSUANCE	DATE
1	ISSUED FOR PERMIT	2024-09-06
2	ISSUED FOR ESA	2024-10-21
3	ISSUED FOR 100% CD	2024-11-05
4	ISSUED FOR TENDER	2024-11-15

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3359 MISSISSAUGA ROAD

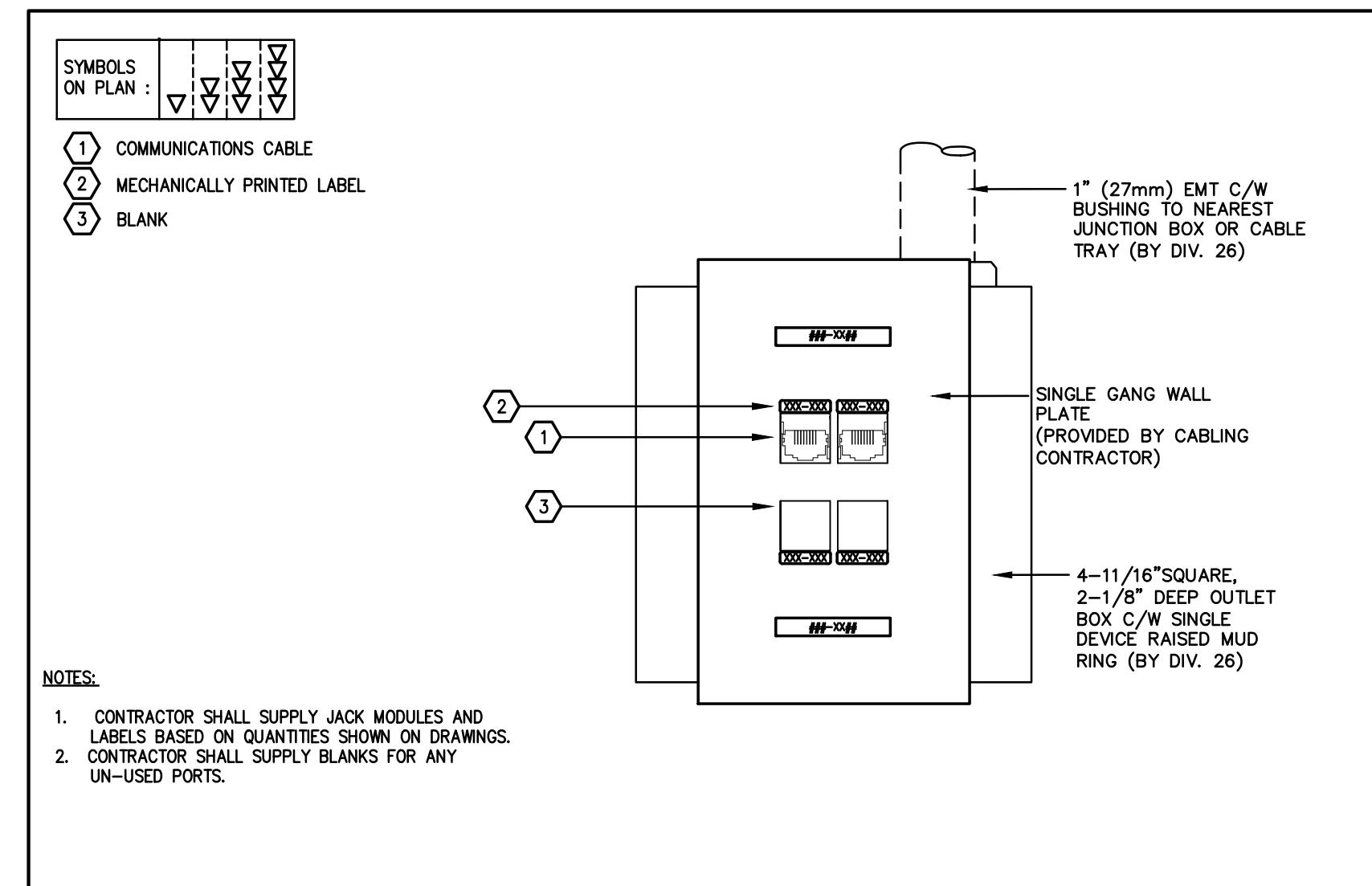
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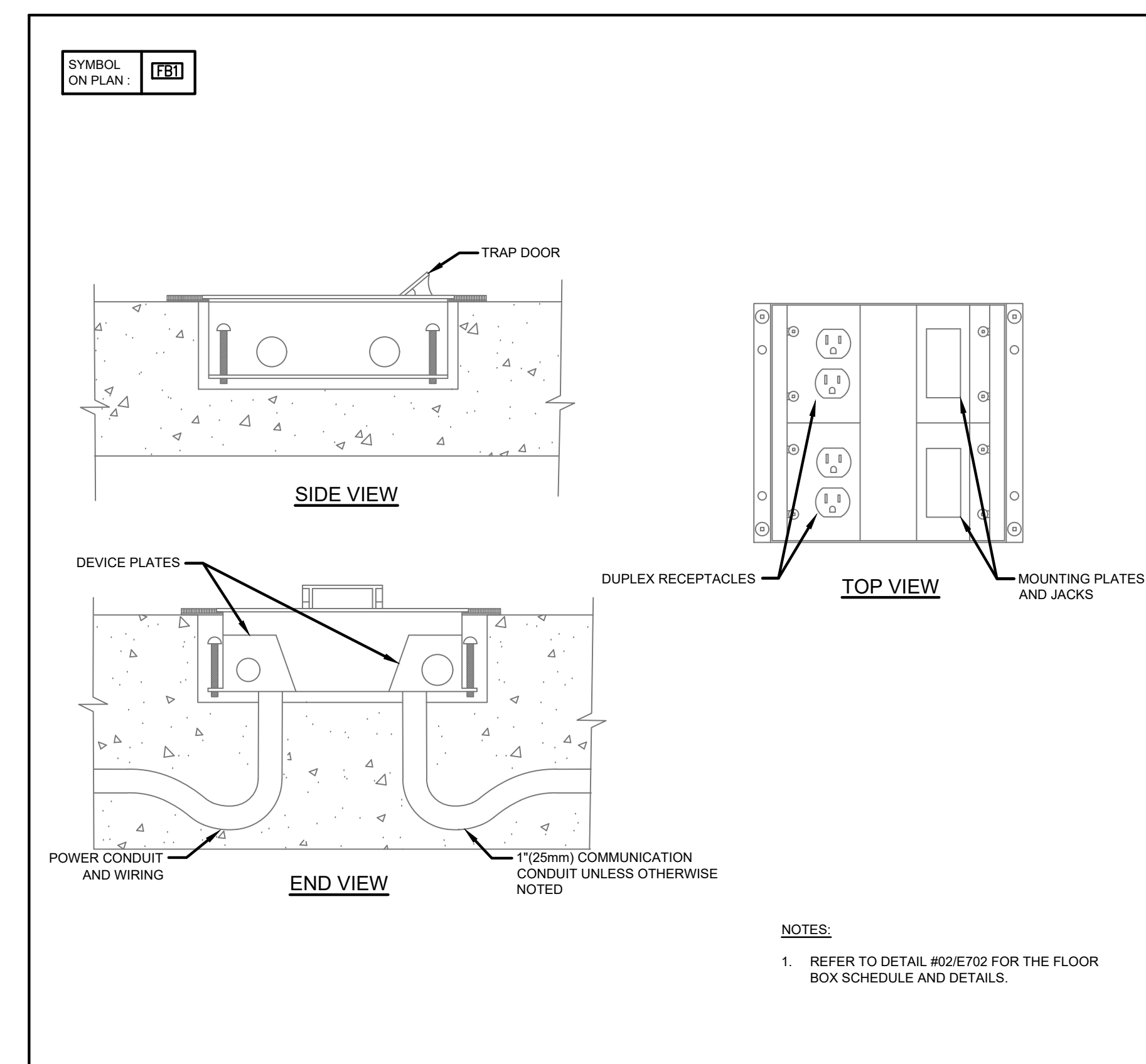


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DATE : FEB 2024	
PROJECT NO : 2023-0059	
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01 COMMUNICATIONS WALL OUTLET DETAIL
E-803 SCALE: N.T.S.



02 FLOOR BOX RECESSED COMBINATION
E-803 SCALE: N.T.S.

No.	ISSUANCE	DATE
1	ISSUED FOR TENDER	2024-11-15

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PROJECT NO: 2023-0059	
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PROJECT NOTES

- DEVICE LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE. COORDINATE FINAL INSTALLATION LOCATIONS AND DETAILS WITH THE ARCHITECT/INTERIOR DESIGNER. REFER TO ARCHITECTURAL DRAWINGS AND REVIEW SITE CONDITIONS FOR INSTALLATION REQUIREMENTS. COORDINATE FINAL DEVICE LOCATIONS TO SUIT SITE CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR REVIEWING ARCHITECTURAL, ELECTRICAL, SECURITY, AND AUDIOVISUAL DRAWINGS.
- ARCHITECTURAL PLAN DRAWING BACKGROUNDS ARE FOR REFERENCE ONLY. REFER TO PROJECT ARCHITECTURAL DRAWINGS AND SITE CONDITIONS. SITE MEASURE FOR EXACT DIMENSIONS AND INSTALLATION REQUIREMENTS.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE TELECOMMUNICATIONS SPECIFICATIONS.
- PROVIDE ALL MOUNTS, BACK BOXES, ADAPTERS, FACEPLATES, BEZELS, TRIM, ETC. UNLESS OTHERWISE NOTED.
- ALL SLAB AND WALL PENETRATIONS TO BE FIRE-STOPPED AS REQUIRED TO MAINTAIN FIRE RATING OF SLAB OR WALL. FIRE STOPPING MATERIAL SHALL BE A TYPE THAT WILL FACILITATE FUTURE MOVES, ADDS, AND CHANGES. OBTAIN APPROVAL FROM THE GC OR OWNER.
- PROVIDE COMPLETE SHOP DRAWINGS WITH PRODUCT NUMBERS/FINISHES HIGHLIGHTED, AND DETAILS FOR ALL PROPOSED INSTALLATIONS. OBTAIN ARCHITECT/INTERIOR DESIGNER APPROVAL FOR ALL INSTALLATIONS.
- COORDINATE ALL INSTALLATIONS AND WORK. OBTAIN ALL NECESSARY APPROVALS AND PERMITS.
- PROVIDE ALL INSTALLATIONS IN COMPLIANCE WITH APPLICABLE CODES AND SITE INSTALLATION STANDARDS AND GUIDELINES.
- OBTAIN ARCHITECT'S/INTERIOR DESIGNER'S APPROVAL FOR INSTALLATION OF ALL DEVICES AND COMPONENTS (THIS INCLUDES COLOUR AND FINISHES).
- NOTIFY THE ARCHITECT/INTERIOR DESIGNER AND ICT CONSULTANT OF ANY DRAWING DISCREPANCIES.
- DO NOT COPY OR DISTRIBUTE THESE TELECOMMUNICATIONS DRAWINGS. UNAUTHORIZED DISTRIBUTION OF ANY PORTION OF THESE DRAWINGS, ELECTRONIC OR PAPER IS PROHIBITED.

ACRONYMS & ABBREVIATIONS

MANY OF THE ACRONYMS AND ABBREVIATIONS BELOW ARE USED IN COMBINATION WITH THE SYMBOLS IN THE TELECOMMUNICATIONS LEGEND TO REFERENCE A SPECIFIC SCOPE OF WORK DESCRIBED IN THE DETAIL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THOROUGHLY ALL DETAILS FOR FURTHER GUIDANCE AND EXPECTATIONS ON SCOPE OF WORK.

AFF	ABOVE FINISHED FLOOR	PB	PULLBOX
AFG	ABOVE FINISHED GRADE	PBB	PRIMARY BONDING BUSBAR
AP	ACCESS PROVIDER	PBX	PRIVATE BRANCH EXCHANGE
BAS	BUILDING AUTOMATION SYSTEM	POP	POINT OF PRESENCE
BFC	BELOW FINISHED CEILING	PR	PAIR
CCTV	CLOSED-CIRCUIT TELEVISION (CABLE FOR SECURITY CAMERA)	R	TO BE REMOVED / RELOCATED
CLG	CEILING	RBP	ROOM BOOKING PANEL
CP	CONSOLIDATION POINT	RE/RE	REMOVE & RE-INSTALL
CRO	CORROSION-RESISTANT OUTLET	RF	RADIO FREQUENCY
DS	DIGITAL SIGNAGE	RL	DEVICE OR OUTLET/CABLE IN RELOCATED POSITION
EF	ENTRANCE FACILITY	RMC	RIGID METALLIC CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RU / U	RACK UNIT (RACK MOUNTING UNIT)
ENT	ELECTRICAL NON-METALLIC TUBING	SBB	SECONDARY BONDING BUSBAR
ESS	ELECTRONIC SAFETY AND SECURITY	SEC	SECURITY
F/UTP	FOILED, UNSHIELDED TWISTED PAIR	SMF	SINGLE-MODE FIBRE
Ex	EXISTING TO REMAIN	SR	SURFACE RACEWAY
GND	GROUND	STP	SHIELDED TWISTED PAIR
IC	INTERCOM	TEMP	TEMPORARY
ICT	INFORMATION AND COMMUNICATIONS TECHNOLOGY	TR	TELECOMMUNICATIONS ROOM
IDF	INTERMEDIATE DISTRIBUTION FRAME	TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
ISP	INTERNET SERVICE PROVIDER	TYP	TYPICAL
JB	JUNCTION BOX	UPS	UNINTERRUPTIBLE POWER SUPPLY
LAN	LOCAL-AREA NETWORK	U/S	UNDERSIDE
LOC	LOCATION	UTP	UNSHIELDED TWISTED PAIR
MC	MAIN CROSS-CONNECT	WAN	WIRE-AREA NETWORK
MCR	MAIN COMPUTER ROOM	WAP	WIRELESS ACCESS POINT
MDF	MAIN DISTRIBUTION FRAME	WP	WALL PHONE
MH	MAINTENANCE HOLE	WPO	WEATHERPROOF OUTLET
MPTL	MODULAR PLUG TERMINATED LINK	WW	WIREWAY
MMF	MULTI-MODE FIBRE		
OFE	OWNER-FURNISHED EQUIPMENT		

TELECOMMUNICATIONS DRAWING LIST

T-001	LEGEND, DRAWING LIST AND PROJECT NOTES
T-002	SPECIFICATIONS
T-101	SITE PLAN
T-201	GROUND FLOOR AND PARTIAL MEZZANINE TELECOM LAYOUTS
T-301	HUB ROOM LAYOUT AND ELEVATION
T-401	DETAILS

TELECOMMUNICATIONS LEGEND

ALL SYMBOLS IN THIS LEGEND REPRESENT THE COMPLETE, END-TO-END INSTALLATION OF COMMUNICATIONS CABLES; TERMINATED, LABELLED, AND TESTED.
 THIS INSTALLATION INCLUDES TERMINATION AT A PATCH PANEL OR BACKBOARD WITHIN THE NEAREST TELECOMMUNICATIONS ROOM/ENCLOSURE, TO THE TERMINATION AT THE SERVICE AREA OUTLET LOCATION IDENTIFIED ON THE FLOORPLANS.
 CONTRACTOR SHALL REVIEW THOROUGHLY ALL TELECOMMUNICATIONS SPECIFICATIONS AND DRAWINGS FOR FURTHER INSTRUCTION ON TERMINATION REQUIREMENTS AND SCOPE OF WORK ASSOCIATED WITH THE SYMBOLS FOUND IN THIS LEGEND.

COPPER LEGEND

OUTLET TYPE	MOUNT TYPE	
DATA / NETWORK 'A'		
▽	WALL	COMMUNICATIONS CABLE(S) DESIGNATED FOR DATA OR NETWORK 'A'. QUANTITIES OF CABLES EXCEEDING ONE (1) PER POSITION ARE INDICATED BY MULTIPLES OF STACKED SYMBOLS AS OUTLINED BELOW. SEE SPECIFICATIONS FOR CABLE/CONNECTOR TYPES, FINISHES, AND LABELLING REQUIREMENTS.
▣	FLOOR	▽ = ONE (1) COMMUNICATIONS CABLE IN A SINGLE ADAPTER/FACEPLATE
⊕	CEILING	▽▽ = TWO (2) COMMUNICATIONS CABLES IN A SINGLE ADAPTER/FACEPLATE
▽	FURNITURE	▽▽▽ = THREE (3) COMMUNICATIONS CABLES IN A SINGLE ADAPTER/FACEPLATE
VOICE / NETWORK 'B'		
▽	WALL	COMMUNICATIONS CABLE(S) DESIGNATED FOR VOICE OR NETWORK 'B'. QUANTITIES OF CABLES EXCEEDING ONE (1) PER POSITION ARE INDICATED BY MULTIPLES OF STACKED SYMBOLS AS DEMONSTRATED ABOVE. SEE SPECIFICATIONS FOR CABLE/CONNECTOR TYPES, FINISHES, AND LABELLING REQUIREMENTS.
▣	FLOOR	
⊕	CEILING	
▽	FURNITURE	
DATA & VOICE / NETWORK 'A' & NETWORK 'B'		
▽	WALL	
▣	FLOOR	
⊕	CEILING	
▽	FURNITURE	
TV		
⊙	WALL	COAXIAL CABLE(S) FOR AV APPLICATIONS. QUANTITIES OF CABLES EXCEEDING ONE (1) PER POSITION ARE INDICATED BY MULTIPLES OF STACKED SYMBOLS AS DEMONSTRATED ABOVE. SEE SPECIFICATIONS FOR CABLE/CONNECTOR TYPES, FINISHES, AND LABELLING REQUIREMENTS.
▣	FLOOR	
⊕	CEILING	
⊙	FURNITURE	

FIBRE LEGEND

FIBRE		
▽	WALL	SMF/MMF COMMUNICATIONS CABLE(S). EACH SYMBOL REPRESENTS TWO (2) STRANDS FOR DUPLEX CONNECTIONS. SEE SPECIFICATIONS FOR CABLE, CONNECTOR/POLISH/TERMINATION TYPES, AND LABELLING REQUIREMENTS.
▣	FLOOR	
⊕	CEILING	
▽	FURNITURE	

MISC. LEGEND

FEED	FEED TYPE
⊕	POWER & COMMUNICATIONS SERVICE POLE (BY DIV. 26)
⊕	POWER & COMMUNICATIONS SERVICE POLE WITH SYSTEMS FURNITURE FEED (BY DIV. 26)
⊕	WALL OR COLUMN FEED TO SYSTEMS FURNITURE (BY DIV. 26)
⊕	FLOOR FEED TO SYSTEMS FURNITURE (BY DIV. 26)
⊙	DRAWING NUMBER / DETAIL CALLOUT
—	SURFACE RACEWAY (BY DIV. 26)

No.	ISSUANCE	DATE
1	ISSUED FOR 50% CD	2024-09-06
2	ISSUED FOR PROGRESS	2024-10-15
3	ISSUED FOR 100% CD	2024-11-05
4	ISSUED FOR TENDER	2024-11-15

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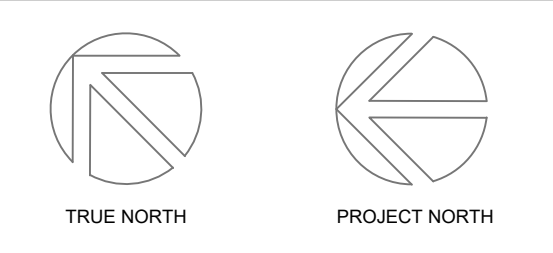
PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

TITLE
 LEGEND, DRAWING LIST AND NOTES

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PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

SITE PLAN

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DATE: FEB 2024

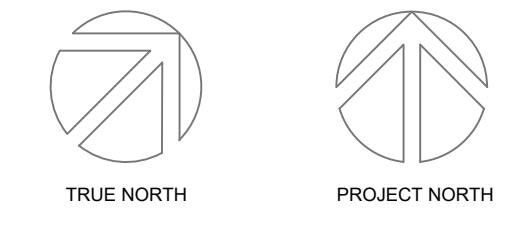
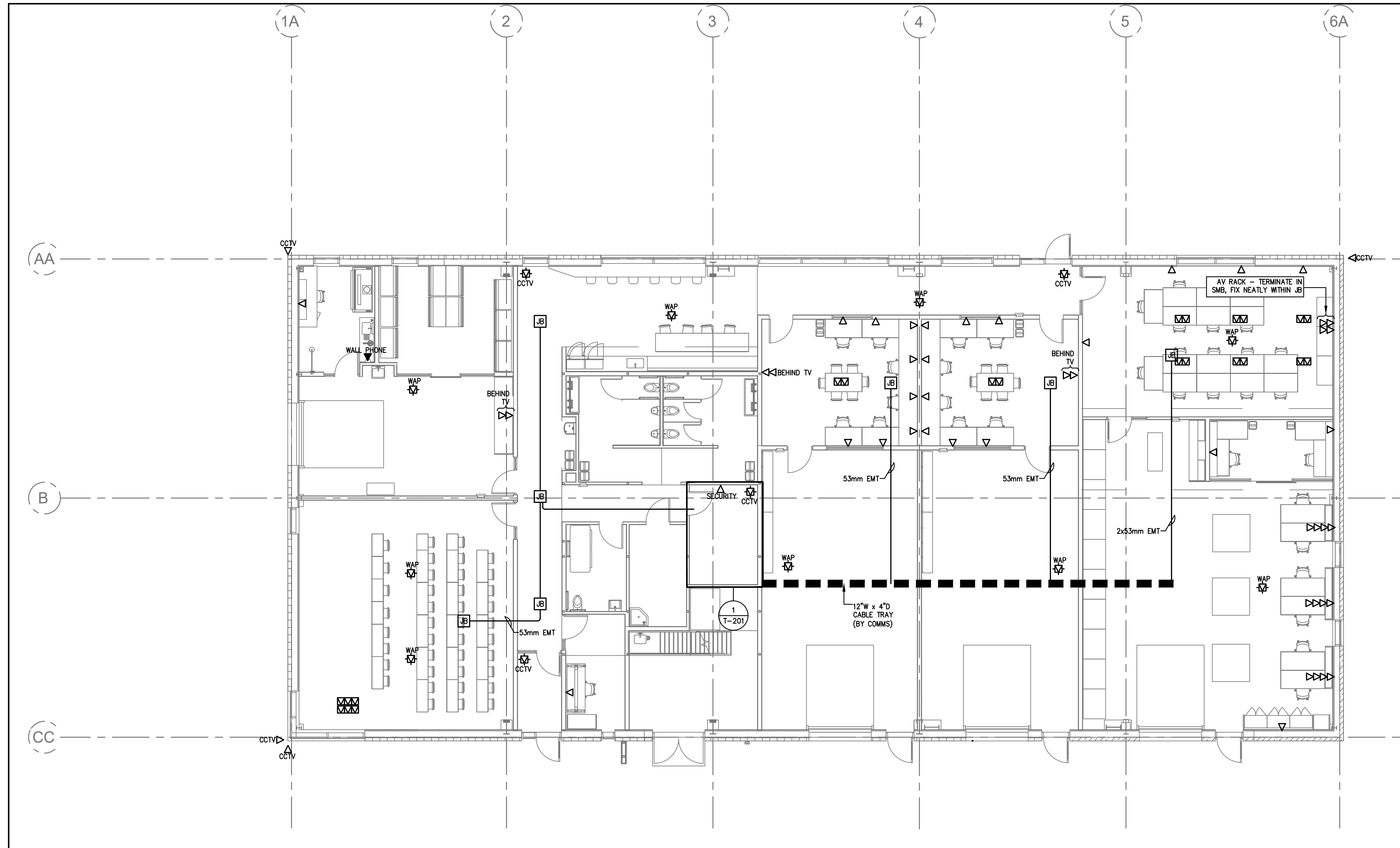
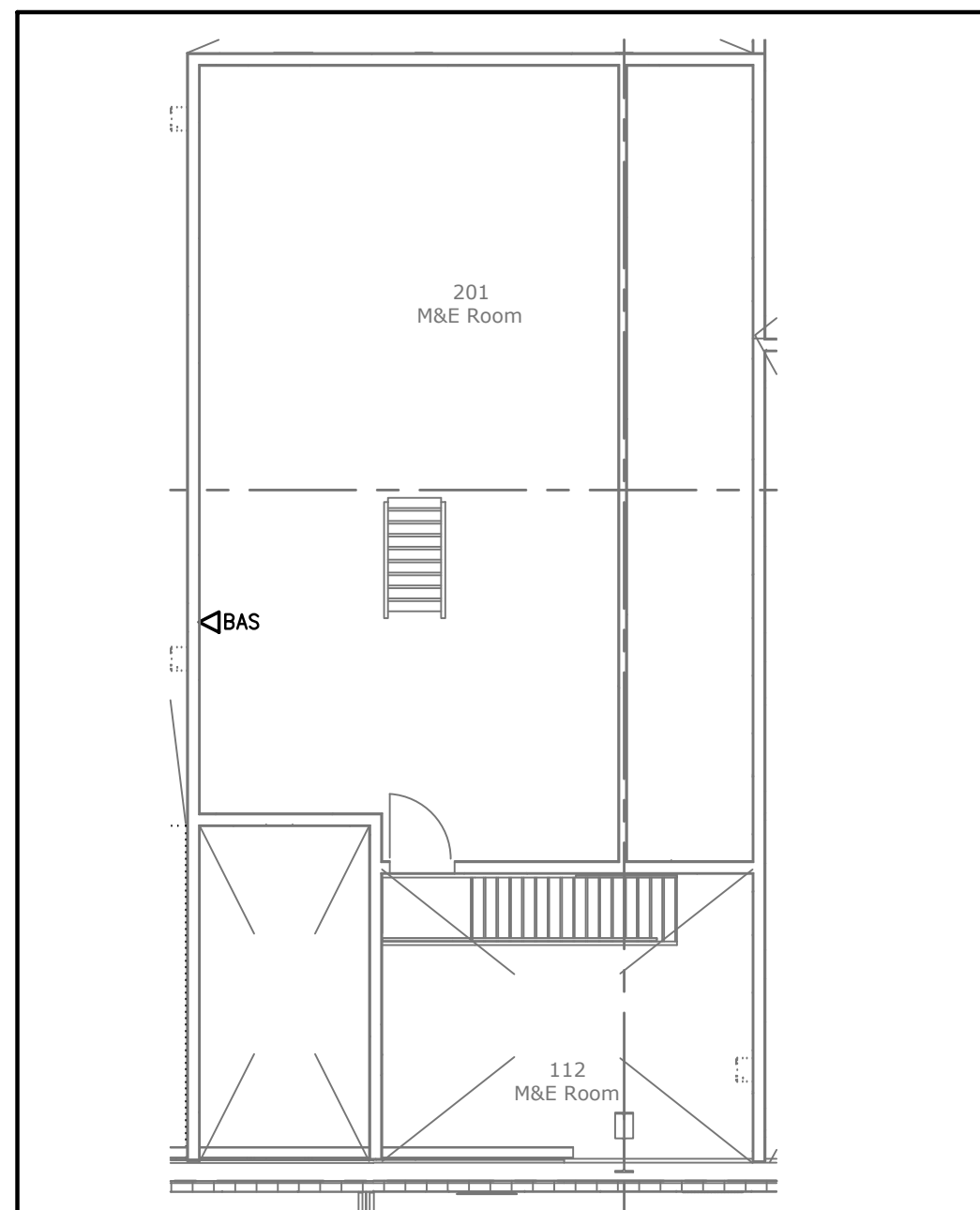
PROJECT NO: 2023-0059

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CHECKED BY: BC

NOTES

◆ CONTRACTOR TO SUPPLY AND INSTALL 48-STRAND OS2 INDOOR/OUTDOOR FIBRE CABLE BETWEEN NEW BUILDING LAN ROOM AND OPTICAL CROSSOVER CABINET (OCC) NO.2 THROUGH NETWORK OF EXISTING AND NEW DUCT BANKS. ALL TERMINATIONS BY DIVISION 27. COORDINATE WITH UTM I&TS.



No.	ISSUANCE	DATE
1	ISSUED FOR 50% CD	2024-09-06
2	ISSUED FOR PROGRESS	2024-10-15
3	ISSUED FOR 100% CD	2024-11-05
4	ISSUED FOR TENDER	2024-11-15

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

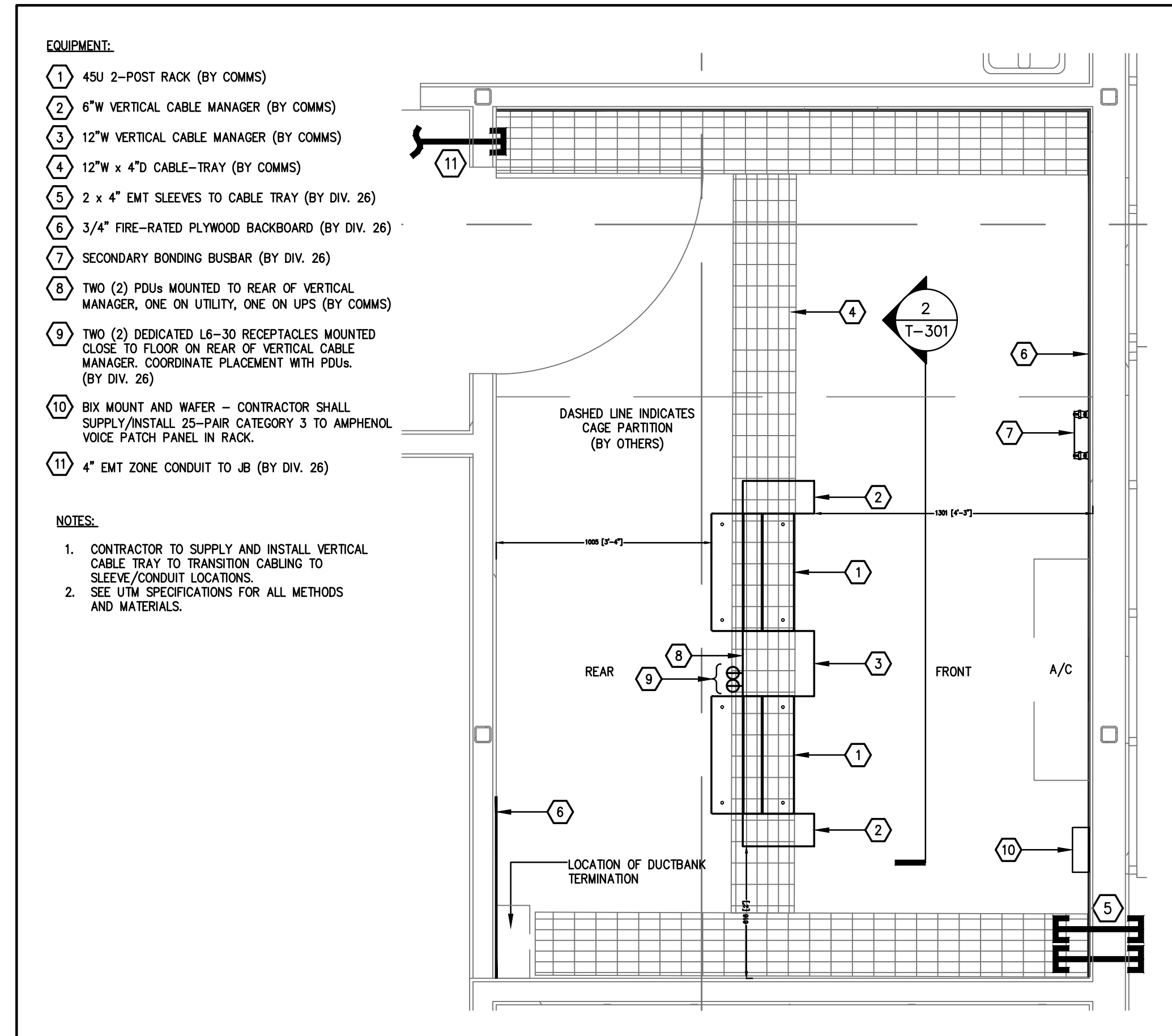
TITLE
GROUND FLOOR AND PARTIAL
MEZZANINE TELECOM LAYOUTS

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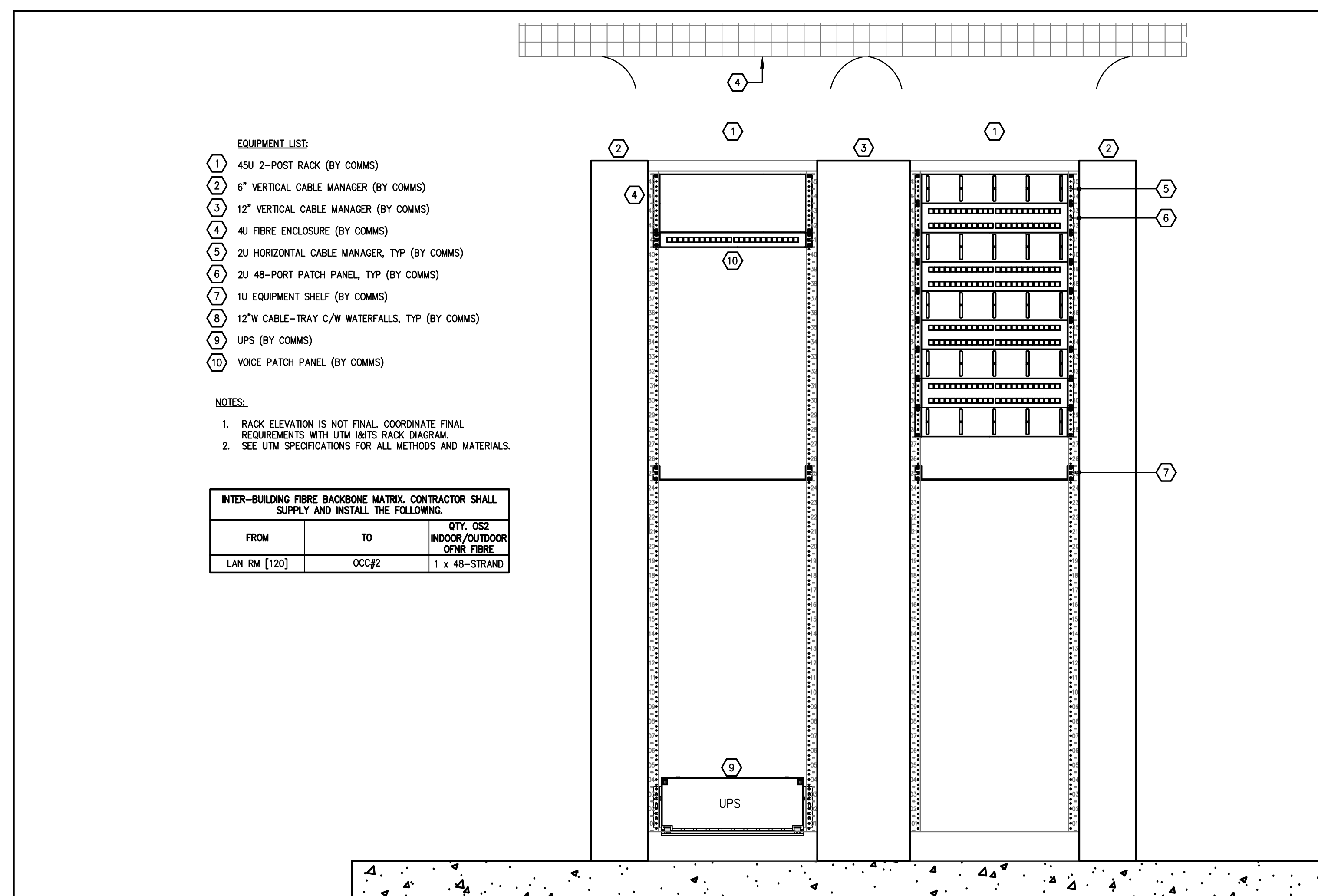
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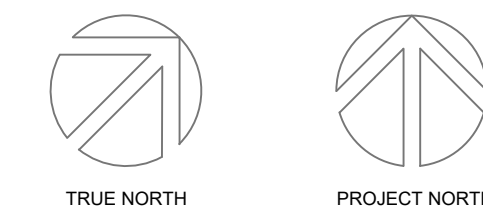
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DATE : FEB 2024	T-201
PROJECT NO : 2023-0059	
DRAWN BY : SS	
CHECKED BY : BC	



01 HUB ROOM LAYOUT
T-301 1:20



2 HUB ROOM ELEVATION
T-301 1:10



No.	ISSUANCE	DATE
1	ISSUED FOR 50% CD	2024-09-06
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3	ISSUED FOR 100% CD	2024-11-05
4	ISSUED FOR TENDER	2024-11-15

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TITLE

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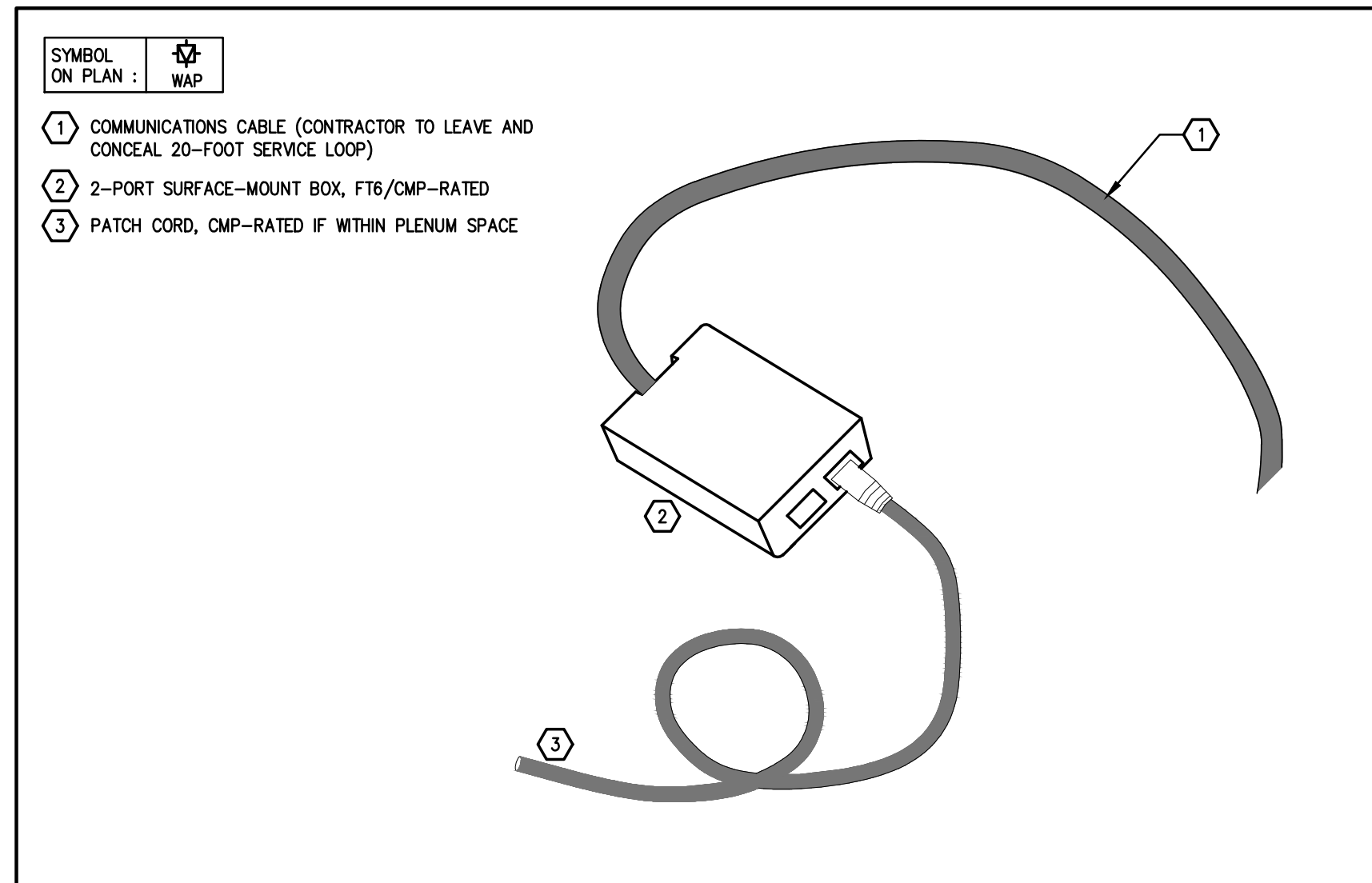
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DATE: FEB 2024

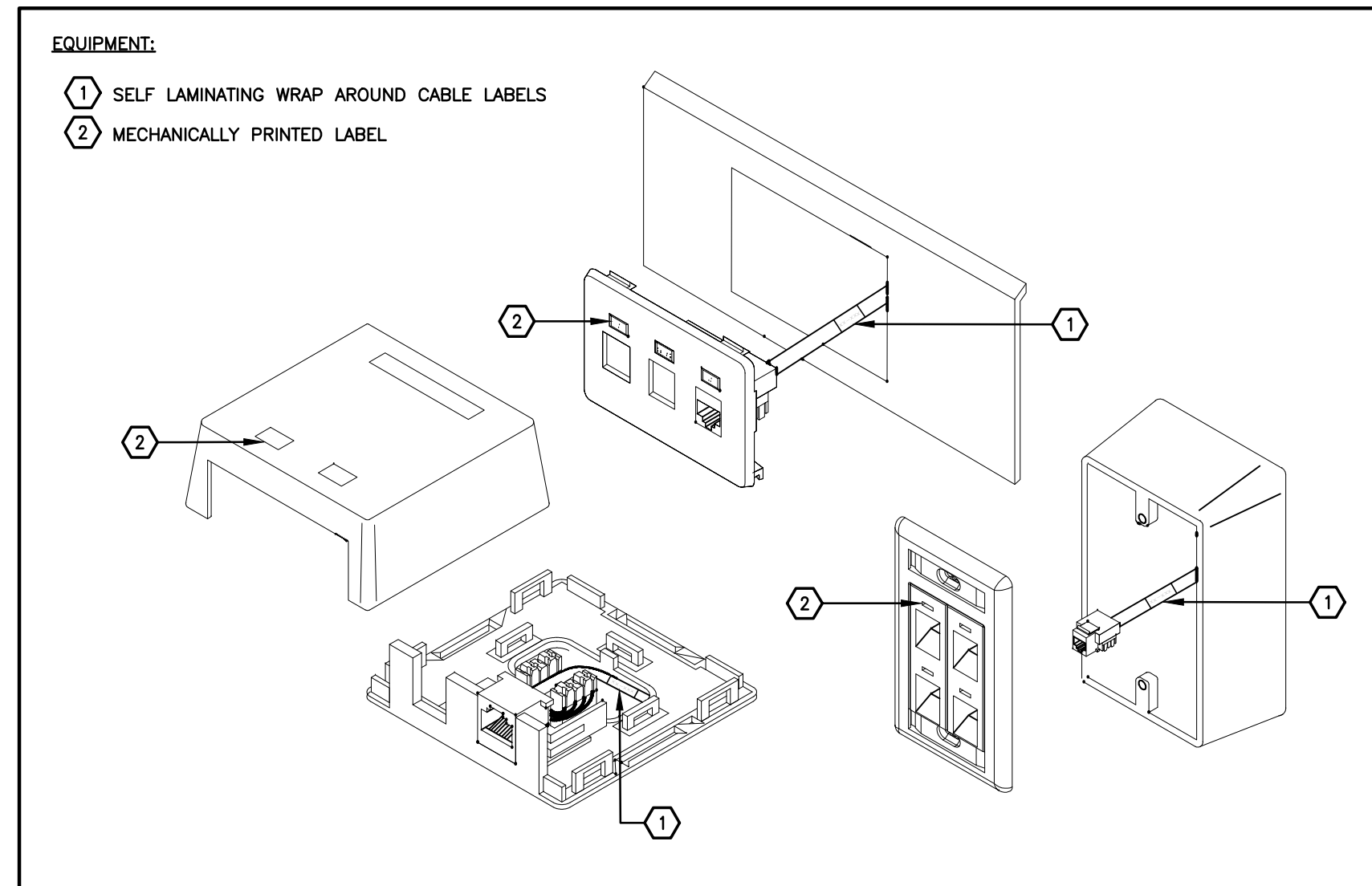
PROJECT NO: 2023-0059

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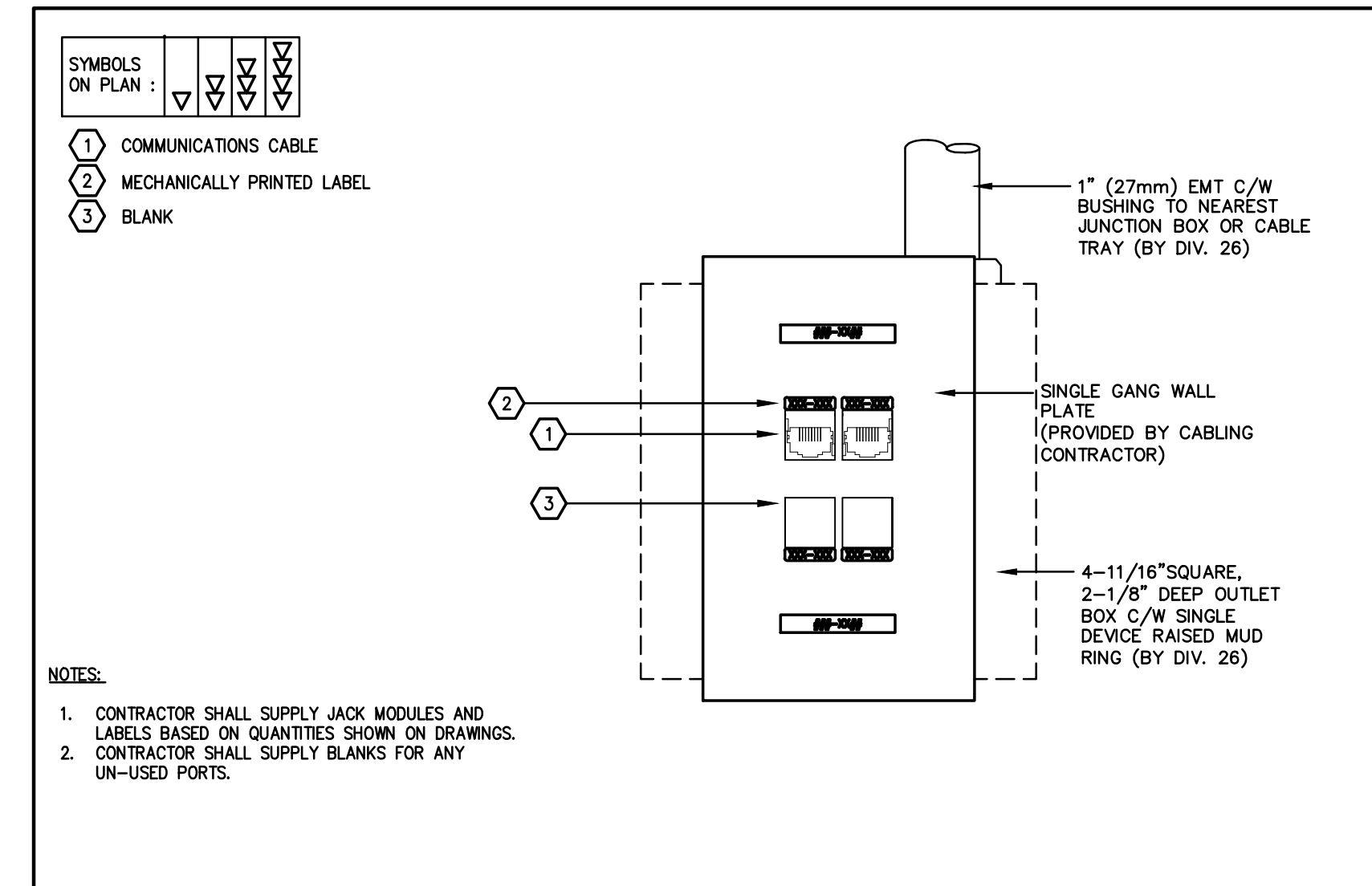
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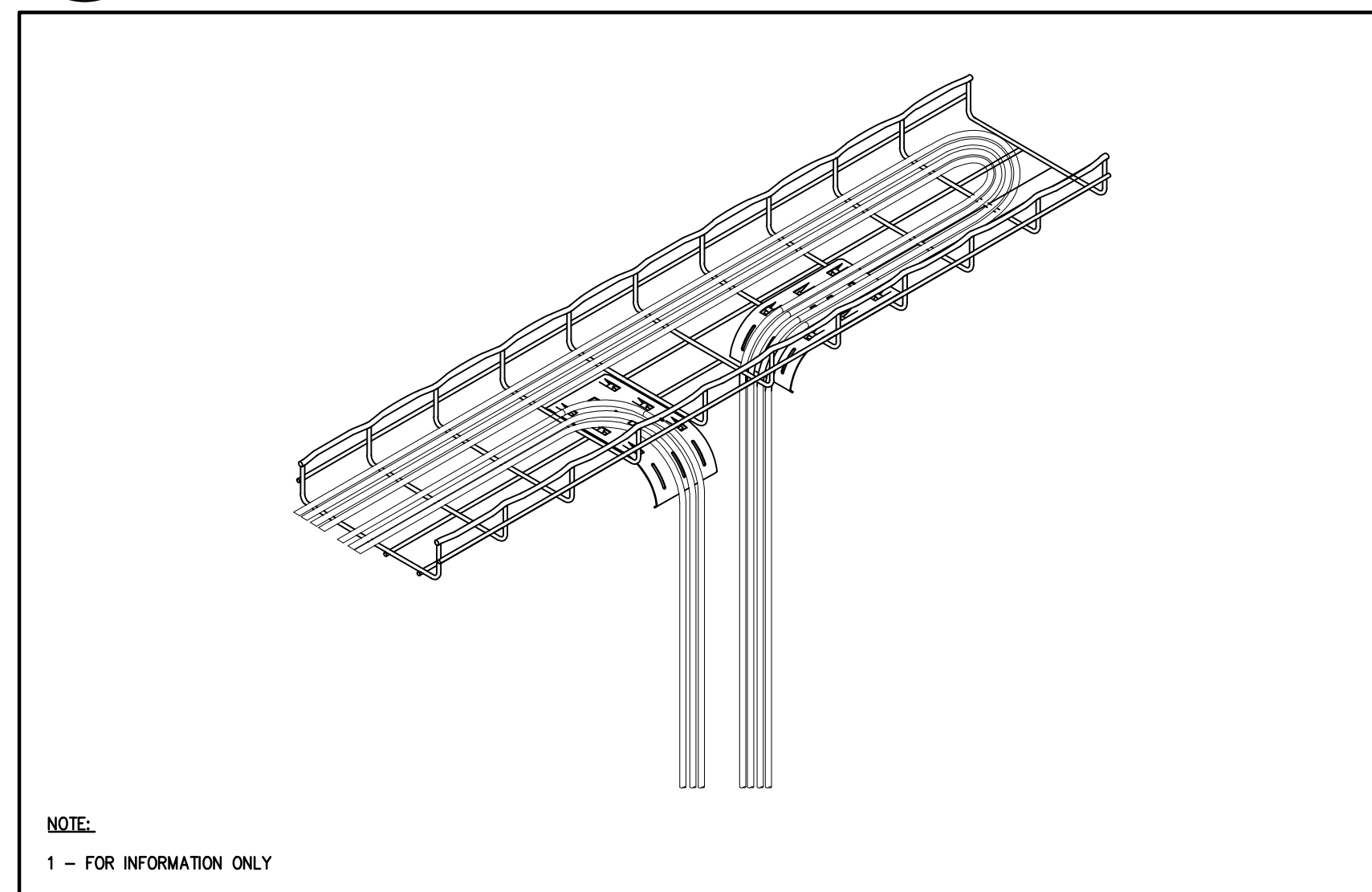
09 2-PORT SURFACE MOUNT BOX
T-401 SCALE: N.T.S.



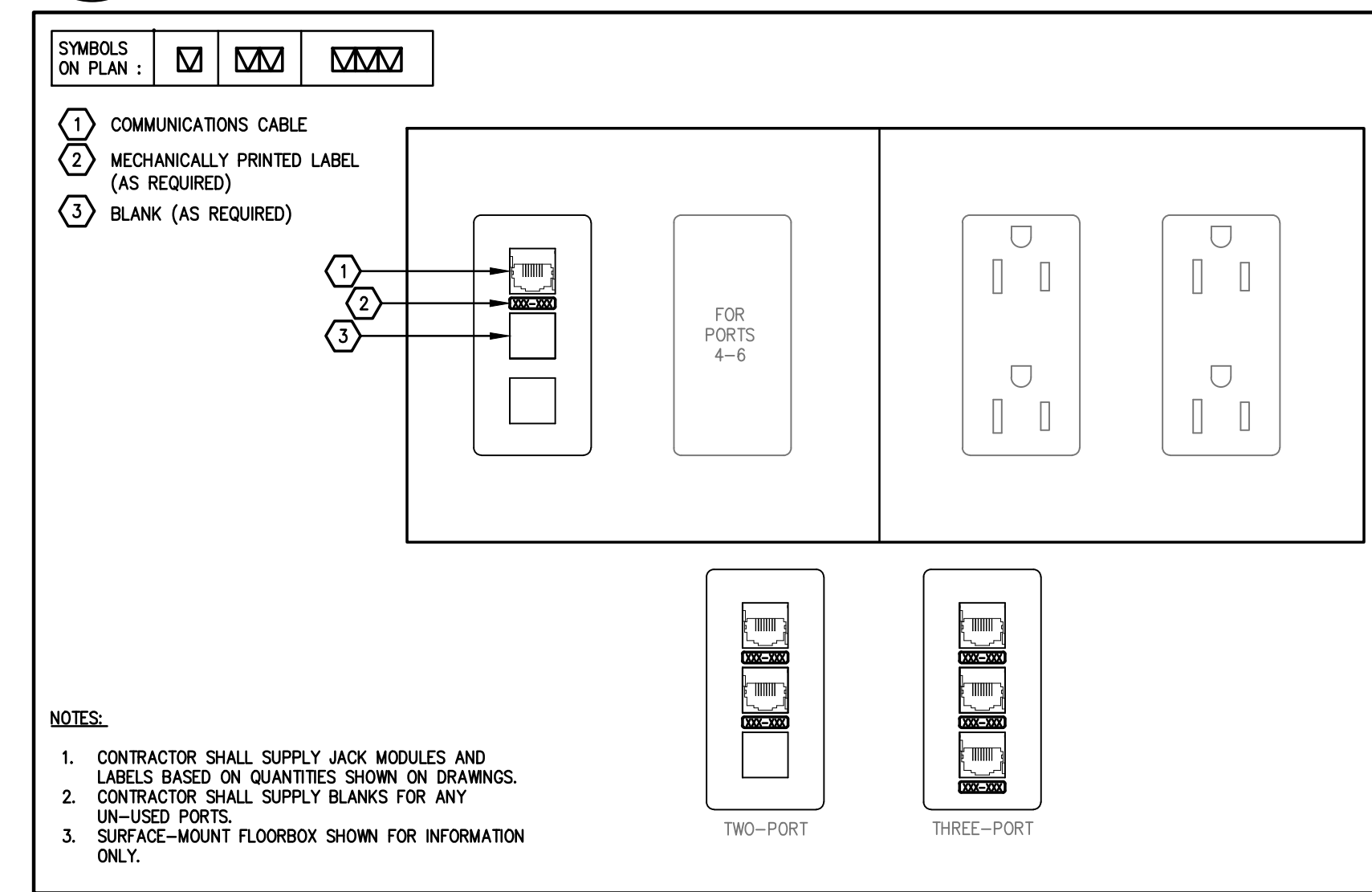
05 FACEPLATE / CABLE LABELLING (TYPICAL)
T-401 SCALE: N.T.S.



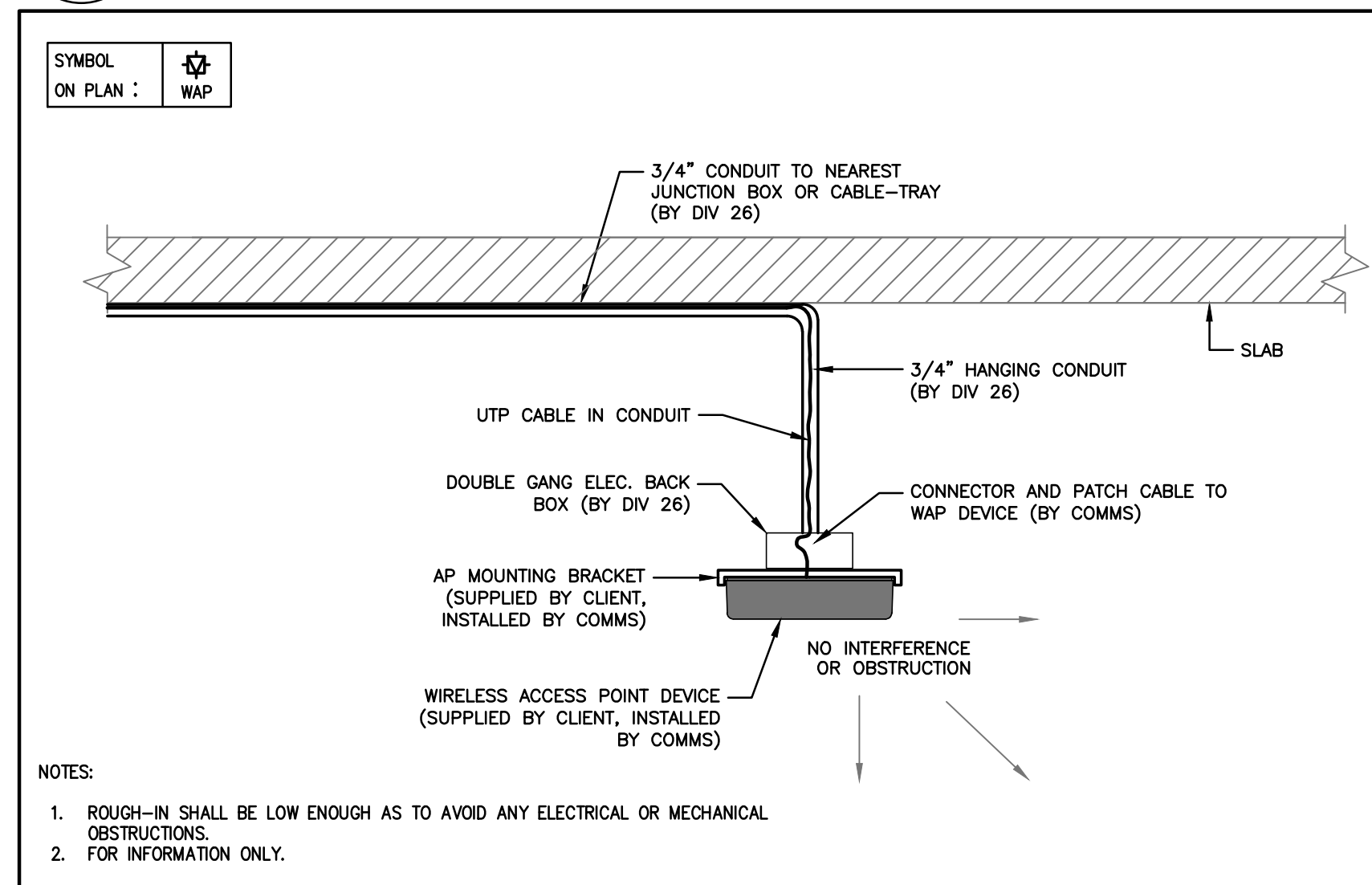
01 COMMUNICATIONS WALL OUTLET DETAIL
T-401 SCALE: N.T.S.



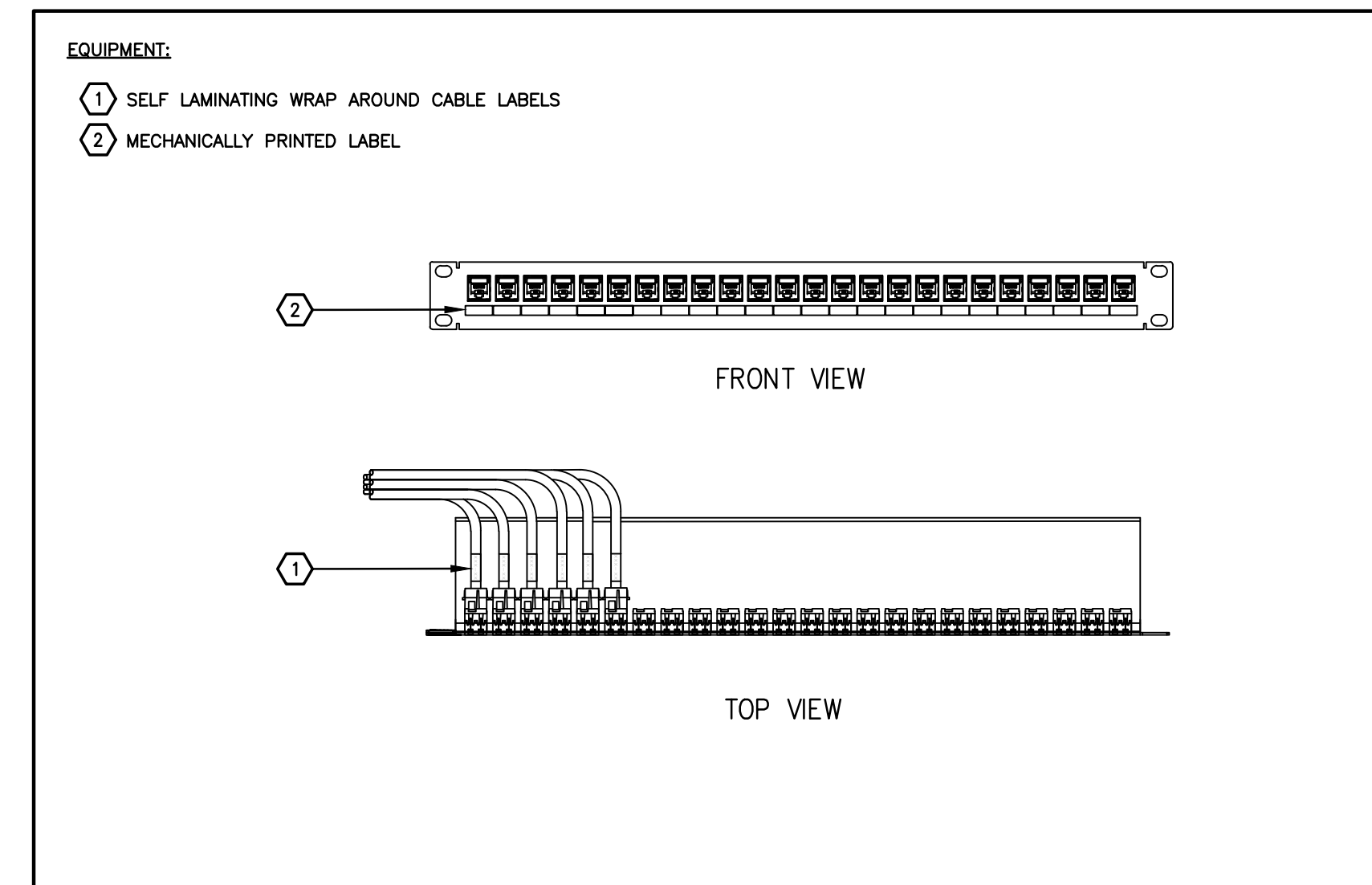
06 CABLE TRAY/WATERFALLS - CABLES SLACK DETAIL
T-401 SCALE: N.T.S.



02 COMMUNICATIONS FLOOR OUTLET DETAIL
T-401 SCALE: N.T.S.



08 WAP MOUNTING DETAIL - OPEN, HARD, OR DESIGN CEILING, TYPICAL
T-401 SCALE: N.T.S.



03 PATCH PANEL / CABLE LABELLING (TYPICAL)
T-401 SCALE: N.T.S.

No.	ISSUANCE	DATE
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DRAWING INDEX

SD-001	DRAWING LIST, NOTES AND LEGEND
SD-002	SPECIFICATIONS
SD-201	GROUND FLOOR SECURITY LAYOUT
SD-401	DETAILS

GENERAL NOTES

- SECURITY DEVICE LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE. COORDINATE FINAL INSTALLATION LOCATIONS AND DETAILS WITH THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS AND REVIEW SITE CONDITIONS FOR INSTALLATION REQUIREMENTS. ALL DETAILS SHOWN SHALL BE ADAPTED AS REQUIRED TO SUIT THE SITE CONDITIONS AND THE SPECIFIC APPLICATION.
- ARCHITECTURAL PLAN DRAWING BACKGROUNDS ARE FOR REFERENCE ONLY. REFER TO PROJECT ARCHITECTURAL DRAWINGS AND SITE CONDITIONS. SITE MEASURE FOR EXACT DIMENSIONS AND INSTALLATION REQUIREMENTS.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE BSS SPECIFICATIONS.
- PROVIDE ALL REQUIRED CUTTING, BORING, PATCHING AND FINISHING NECESSARY TO PROVIDE A COMPLETE INSTALLATION. PROVIDE ALL MOUNTS, BACK BOXES, ADAPTERS, FACEPLATES, BEZELS, TRIM, ETC. UNLESS OTHERWISE NOTED.
- PROVIDE COMPLETE SHOP DRAWINGS AND DETAILS FOR ALL PROPOSED INSTALLATIONS. OBTAIN ARCHITECT'S APPROVAL FOR ALL INSTALLATIONS.
- COORDINATE ALL INSTALLATIONS AND WORK. OBTAIN ALL NECESSARY APPROVALS AND PERMITS.
- PROVIDE ALL INSTALLATIONS IN COMPLIANCE WITH APPLICABLE CODES AND SITE INSTALLATION STANDARDS AND GUIDELINES.
- PROVIDE ALL DEVICES AND INSTALLATIONS WITH A COLOR AND FINISH TO MATCH THE INSTALLATION LOCATION. OBTAIN ARCHITECT'S APPROVAL FOR ALL INSTALLATION OF DEVICES AND COMPONENTS.
- NOTIFY THE ARCHITECT AND CONSULTANT OF ANY DRAWING DISCREPANCIES.
- ALL SECURITY SYSTEM CABLING SHALL BE INSTALLED WITHIN DEDICATED CONDUIT. PROVIDE ALL CONDUIT SLEEVES FOR SECURITY SYSTEM CABLING.
- CONDUIT SIZES INDICATED ON THE DRAWINGS AND HOME RUN SIZES SHOWN ON DETAIL SHEETS ARE TO BE CONSIDERED THE MINIMUM SIZE TO BE INSTALLED. PROVIDE LARGER OR ADDITIONAL CONDUIT IF REQUIRED. CONDUIT SIZES INDICATE DEDICATED HOME RUNS, BUT MAY BE COMBINED WITH OTHER LOCATIONS BY SYSTEM TYPE (CCTV, PACS, SIS) AS LONG AS CEC MAXIMUM FILL REQUIREMENTS ARE MAINTAINED. PROVIDE LARGER CONDUIT SIZES FOR COMBINED DEVICE HOME RUNS.
- UNLESS NOTED OTHERWISE, ALL CONDUIT AND BACKBOXES SHALL BE INSTALLED CONCEALED WITHIN WALLS AND ABOVE FINISHED CEILINGS. OBTAIN APPROVAL FOR ANY PROPOSED INSTALLATION OF EXPOSED OR SURFACE CONDUIT, DEVICES, ETC.
- SECURITY WIRING, CONDUIT AND JUNCTION BOXES SHALL BE INSTALLED ON THE SECURE SIDE OF DOOR (INSIDE SECURE SPACE).
- REFER TO THE BUILDING ELECTRICAL DRAWINGS FOR THE ELECTRICAL DISTRIBUTION PANEL AND POWER SUPPLY DETAILS.
- DO NOT COPY OR DISTRIBUTE THESE SECURITY DRAWINGS. UNAUTHORIZED DISTRIBUTION OF ANY PORTION OF THESE DRAWINGS, ELECTRONIC OR PAPER, IS PROHIBITED.

ABBREVIATIONS

ABBR.	DEVICE
1	REFER TO DRAWING NOTE 1
AFF	= ABOVE FINISHED FLOOR
AFG	= ABOVE FINISHED GRADE
CLG	= CEILING
EX	= EXISTING TO REMAIN
NIC	= NOT IN CONTRACT
PB	= PULL BOX
R	= EXISTING TO DEMO (REMOVE)
RL	= EXISTING TO RELOCATE
RP	= RELOCATED POSITION
TEMP	= TEMPORARY
TYP	= TYPICAL
UPS	= UNINTERRUPTIBLE POWER SUPPLY
UN	= UNLESS OTHERWISE NOTED
WP	= WEATHERPROOF

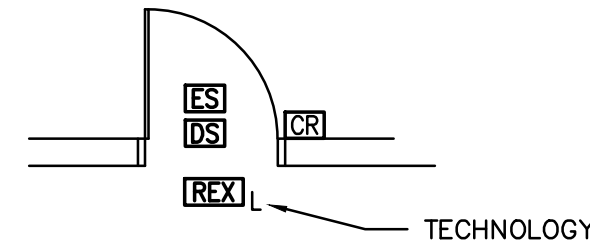
RESPONSIBILITY MATRIX

SYSTEM WORK	ACCESS CONTROL	BIOMETRIC SYSTEM	GUESTROOM ACCESS	VIDEO MANAGEMENT	INTERCOM	DOOR HARDWARE
ROUGH-IN & CONDUIT	ELEC	ELEC	ELEC	ELEC	ELEC	ELEC/DOOR
CABLING & TERMINATION	SEC	SEC/CBL	CBL	CBL	SEC/CBL	DOOR/SEC
FIELD DEVICE INSTALLATION & TERMINATION	SEC	SEC	SEC	SEC	SEC	DOOR/SEC
PROGRAMMING	SEC	SEC	SEC	SEC	SEC	N/A
COMMISSIONING & TESTING	SEC	SEC	SEC	SEC	SEC	DOOR/SEC

ELEC = ELECTRICAL CONTRACTOR (DIV. 26)
CBL = STRUCTURED CABLING CONTRACTOR (DIV. 27)
SEC = SECURITY CONTRACTOR (DIV. 28)
DOOR = DOOR HARDWARE CONTRACTOR (DIV. 8)

BUILDING SECURITY SYSTEM (BSS) LEGEND

DEVICE TAG LEGEND



PHYSICAL ACCESS CONTROL SYSTEM (PACS)

[CR] T	PROXIMITY CARD READER (STANDARD) NO TAG = STANDARD WALL MOUNT E = ELEVATOR L = INTEGRAL TO LOCK SET K = WITH INTEGRAL KEYPAD T = TIME AND ATTENDANCE READER V = LONG RANGE / VEHICLE M = MULLION MOUNT
[GL] T	WIRELESS ELECTRONIC LOCK: G = WIRELESS GUESTROOM LOCK W/ INTEGRAL CARD READER AND DOOR STATUS (CONNECTED TO GUESTROOM MANAGEMENT SYSTEM) B = WIRELESS BACK OF HOUSE LOCK W/ INTEGRAL CARD READER AND DOOR STATUS (CONNECTED TO HOTEL ELECTRONIC ACCESS CONTROL SYSTEM) X = WIRELESS LOCK WITH EXIT TRIM AND DOOR STATUS E = WIRED GUEST ELEVATOR CARD READER R = WIRED GUEST REMOTE CARD READER C/W EXTERNAL HARDWARE
[KP] T	KEYPAD O = OVERRIDE OR DISARM I = INTRUSION SYSTEM KEYPAD
[BO] T	BIOMETRIC ENTRY DEVICE F = FINGERPRINT C = FINGERPRINT W/ INTEGRAL CARD READER I = IRIS SCAN H = HAND GEOMETRY

VIDEO MANAGEMENT SYSTEM (VMS)

[MON] T	VIDEO SURVEILLANCE MONITOR
[CAM] T	FIXED CAMERA NO TAG = INTERIOR DOME CAMERA (RECESSED) S = DOME CAMERA (SURFACE MOUNT) E = ELEVATOR MOUNT P = POLE MOUNT F = SOFFIT MOUNTED W = WALL MOUNT 180/360 = 180°/360° PANORAMIC VIEW CAMERA PD = PENDANT MOUNT H = THERMAL CAMERA IR = INFRARED CAMERA
[PTZ] T	PTZ CAMERA NO TAG = INTERIOR PTZ P = POLE MOUNT PTZ H = THERMAL CAMERA
[KEY] T	VIDEO CONTROL KEYBOARD
[REC] T	RECORDING EQUIPMENT N = NETWORK VIDEO RECORDER D = DIGITAL VIDEO RECORDER (ANALOG) A = AUDIO RECORDER
[ENC] T	ANALOG TO DIGITAL VIDEO ENCODER

LOCKING DEVICES & ACCESSORIES

[EL] T	ELECTRONIC LOCK X = WITH INTEGRAL REQUEST TO EXIT SWITCH E = ELECTRIC LATCH RETRACTION P = PANIC HARDWARE L = INTEGRAL TO LOCK SET D = PANIC HARDWARE W/ DELAYED EGRESS M = WITH INTEGRAL LATCH BOLT MONITORING
[ES] T	ELECTRIC STRIKE M = WITH INTEGRAL LATCH BOLT MONITORING H = HEADER MOUNT STRIKE R = RIM MOUNT
[ML] T	MAGNETIC LOCK B = MAGNETIC LOCK WITH INTEGRAL BOND SENSOR
[PT] T	POWER TRANSFER HINGE (BY OTHERS)
[CO] T	CONTROL OUTPUT RELAY A = AUTO DOOR OPERATOR O = OVERHEAD DOOR T = TURNSTILES V = VEHICLE BARRIER / BOLLARD / GATE E = ELEVATOR CONTROL

COMMUNICATIONS

[IC] T	INTERCOM STATION NO TAG = AUDIO SUB STATION M = INTERCOM MASTER STATION V = AUDIO/VIDEO SUB STATION E = DIRECTORY ENTRY PHONE P = PARKING/DURESS ASSISTANCE STATION VM = AUDIO/VIDEO MASTER STATION
[TEL] T	TELEPHONE DIALER D = DIGITAL (VOIP) V = VOICE (PBX) M = 24/7 MONITORING
[RX] T	TRANSCEIVER/COMMUNICATION DEVICE C = WIRELESS CARD READER V = WIRELESS VEHICLE FOB READER L = WIRELESS LOCK SET G = WIRELESS GUESTROOM CARD READER W = WIRED DOOR GATEWAY
[NET] T	NETWORK SWITCH NO TAG = STANDARD SWITCH C = CORE SWITCH
[FO] T	FIBER OPTIC TRANSCEIVER V = VIDEO D = DATA TX = TRANSMITTER RX = RECEIVER
[RF] T	RF VIDEO/DATA TRANSCEIVER

SENSORS & INPUT DEVICES

[DS] T	DOOR POSITION SWITCH NO TAG = STANDARD MAGNETIC I = INTEGRAL TO LOCK SET O = OVERHEAD DOOR T = CABINET TAMPER SWITCH
[PB] T	PUSH BUTTON D = DURESS R = REMOTE RELEASE C = CALL A = ALARM ACKNOWLEDGEMENT
[REQ] T	REQUEST TO EXIT DEVICE M = MOTION SENSOR P = PUSH BUTTON T = TOUCHLESS SENSOR L = INTEGRAL TO LOCK SET K = KEY SWITCH
[MD] T	MOTION DETECTOR NO TAG = MICROWAVE IR = INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC B = BURRIED INTRUSION
[GB] T	GLASS BREAK SENSOR
[ID] T	INTRUSION/DETECTION DEVICE V = VIBRATION F = FENCE MOUNTED FIBER OPTIC B = BURIED COAXIAL CABLE P = PHOTO BEAM SENSOR
[SEN] T	MONITORING SENSOR B = TEMPERATURE W = WATER L = LATCH H = HUMIDITY S = SAFE P = PARKING BARRIER POSITION
[KS] T	MANUALLY OPERATED KEY SWITCH
[FA] T	ADDRESSABLE FIRE ALARM RELEASE RELAY
[MPS] T	MANUAL PULL STATION C/W AUXILIARY CONTACT (BY OTHERS)

COMPUTER & PERIPHERAL COMPONENTS

[SRV] T	SERVER COMPUTER/CPU A = PHYSICAL ACCESS CONTROL V = VIDEO MANAGEMENT I = INTERCOM EXCHANGE F = FRONT OF HOUSE DOOR LOCKING
[MKS] T	MONITORING WORKSTATION A = PHYSICAL ACCESS CONTROL V = VIDEO MANAGEMENT R = VISITOR REGISTRATION / KIOSK G = GUARD TOUR B = BADGING
[KVM] T	RACK MOUNTED KVM SWITCH WITH INTEGRAL KEYBOARD, MOUSE AND LCD SCREEN
[PRN] T	PRINTER A = ALARM REPORT C = CARD/ID V = VISITOR BADGE
[ENC] T	ENCODER DEVICE NO TAG = KEY CARD ENCODER B = BIOMETRIC ENROLMENT

BARRIERS & VEHICLE CONTROLS

[TS] T	TURNSTILE F = FULL HEIGHT O = OPTICAL
[VB] T	VEHICLE CONTROL BARRIER NO TAG = PARKING ARM B = RISING BOLLARD S = SLIDING GATE W/ WEDGE O = OVERHEAD GRILLE/SHUTTER
[PC] T	PARKING CONTROL DEVICE A = AUTOMATIC VEHICLE ID READER W = WIRELESS RECEIVER T = TICKET DISPENSER F = PAY ON FOOT STATION P = PAY IN LANE STATION L = LOT FULL SIGNAGE
[VS] T	VEHICLE SENSOR NO TAG = INDUCTION LOOP B = BEAM DETECTOR

MISCELLANEOUS SECURITY COMPONENTS

[SCR] T	SCREENING DEVICE M = METAL DETECTOR T = TAG SENSOR (EAS) H = HANDCAG X-RAY C = CARGO/MAIL X-RAY L = LUGGAGE X-RAY
[ICP] T	INTELLIGENT CONTROL PANEL NO TAG = PACS V = VOICE INTERCOM I = INTRUSION P = PARKING
[RFP] T	REMOTE FIELD PANEL NO TAG = PACS F = FENCE DETECTION
[PS] T	POWER SUPPLY L = ELECTRIC LOCK M = MAGNETIC LOCK / FAIL SAFE P = PANEL C = CAMERA I = INTERCOM A = AUXILIARY DEVICES
[AA] T	AUDIBLE/VISIBLE ALARM DEVICE NO TAG = LOCAL AUDIBLE ALARM B = BUZZER C = SPEAKER CHIME V = AUDIBLE W/ STROBE
[VA] T	VISUAL ALARM DEVICE NO TAG = STROBE LIGHT L = LED INDICATOR (IN CUSTOM ENCLOSURE OR FACE PLATE)
[FP] [APD] [BF]	20mm FIRE RATED PLYWOOD AUTOMATIC DOOR OPERATOR WITH BARRIER-FREE PUSH BUTTONS (BY OTHERS)

No.	ISSUANCE	DATE
1.	ISSUED FOR 50% CD	09-06-2024
2.	ISSUED FOR PERMIT	10-11-2024
3.	ISSUED FOR 100% CD	11-06-2024
4.	ISSUED FOR TENDER	11-15-2024

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PROJECT NO : 2023-0059	
DRAWN BY : BS	SD-001
CHECKED BY : DR	

SPECIFICATIONS

GENERAL SCOPE OF WORK

- SUPPLY AND INSTALL ALL MATERIALS, EQUIPMENT, PROGRAMMING, TESTING, AND COMMISSIONING NECESSARY TO PROVIDE A TURN-KEY BUILDING SECURITY SYSTEM (BSS) SOLUTION, INCLUDING ALL SYSTEMS, EQUIPMENT, AND FUNCTIONALITY DESCRIBED ON THESE DOCUMENTS.
- CONNECT BSS COMPONENTS TO BUILDING FIRE ALARM SYSTEM (FAS) AND COORDINATE WITH BUILDING FAS TO ENSURE ALL INSTALLATIONS ARE COMPLIANT WITH BUILDING CODES. INCLUDE ALL NECESSARY FEES AND LABOUR FOR PERMITS AND INSPECTIONS REQUIRED WITH AUTHORITIES HAVING JURISDICTION (AHJ).
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND INDUSTRY BEST PRACTICES.
- INSTALL ALL BSS EQUIPMENT IN COMPLIANCE WITH TYPICAL DETAILS AND SCHEMATICS ISSUED WITHIN THESE DOCUMENTS.
- ENSURE ALL EQUIPMENT IS GROUNDED AND BONDED TO THE PROVIDED GROUNDING SYSTEM.
- PROVIDE THE END-USER WITH TRAINING FOR ALL SYSTEMS PROVIDED. PROVIDE TWO (2) TRAINING SESSIONS OF FOUR (4) HOURS EACH. INCLUDE SYSTEM ADMINISTRATION, CONFIGURATION, OPERATOR, AND SYSTEM MAINTENANCE TRAINING. SUBMIT TRAINING AGENDA TO OWNER AND CONSULTANT TWO (2) WEEKS PRIOR TO TRAINING DATE FOR APPROVAL AND SCHEDULING AS FOLLOWS:
- PROVIDE WARRANTY FOR ALL BSS COMPONENTS PROVIDED. WARRANTY SHALL BE EFFECTIVE FOR ONE (1) YEAR PAST THE AGREED TO SUBSTANTIAL COMPLETION DATE. MAINTENANCE DURING THE WARRANTY PERIOD SHALL BE INCLUDED IN THE BSS CONTRACT.
- COORDINATE ALL INSTALLATIONS WITH OWNER, ARCHITECT, AND CONSULTANT TO ENSURE AND MAINTAIN INTEGRITY AND CONSTRUCTION OF SECURE DOORS, WALLS, AND ENCLOSURES.
- PROVIDE LABELLING FOR ALL ICPs, RFTs, OTHER PANELS, ENCLOSURES AND CABLING, INDICATED ON THE RECORD DOCUMENTATION.
- COMPLETE A COMPREHENSIVE COMMISSIONING PROCESS WITH THE OWNER AND CONSULTANT TO ENSURE EACH SYSTEM PERFORMS TO THE FUNCTIONALITY AS SPECIFIED IN THESE DOCUMENTS.
- PROVIDE AS-BUILT DOCUMENTATION, INCLUDING DRAWINGS, OPERATOR, AND MAINTENANCE MANUALS FOR ALL BSS COMPONENTS.

PHYSICAL ACCESS CONTROL SYSTEM (PACS)

- PACS ARE EXISTING GENETEC, LOCATED ON THE MAIN CAMPUS.
- PACS MAY BE PROVIDED IN A SINGLE BOX SOLUTION IN CONJUNCTION WITH THE VMS FOR THIS PROJECT.
- ACCESS CONTROL PANEL EQUIPMENT SHALL BE MERCURY AUTHENTIC HARDWARE, NO ACCEPTED ALTERNATES.
- PACS SHALL BE CAPABLE OF:
 - SUPPORTING MULTIPLE CREDENTIAL FORMATS (MINIMUM OF 26-BIT PROX, ICLASS, AND MIFARE FORMATS).
 - INTEGRATION TO ELEVATOR CONTROL SYSTEM FOR FLOOR SELECTIVE CONTROL.
 - LOGGING ALL SYSTEM EVENTS AND ACTIONS TO A DATABASE, WITH A MINIMUM OF ONE HUNDRED THOUSAND (100,000) RECORDS TO BE RETAINED.
- SECURITY CONTRACTOR SHALL:
 - SUPPLY ALL NECESSARY GENETEC LICENCE.
 - SUPPLY ALL ASSOCIATED LABOR, EQUIPMENT, AND PERIPHERALS NECESSARY FOR THE INTENDED FUNCTIONALITY.
 - SUPPLY ALL PACS EQUIPMENT WITH SUFFICIENT BATTERY BACKUP FOR EIGHT (8) CONTINUOUS HOURS OF OPERATION UPON FAILURE OF MAINS POWER.
 - SUPPLY ALL PACS POWER SUPPLIES, CONTROL PANELS, AND BATTERY ENCLOSURES WITH TAMPER SWITCHES FOR DETECTION. ENCLOSURES COMMON TO A SINGLE LOCATION MAY SHARE ONE (1) COMMON ALARM, CONNECTED IN SERIES.
 - INSTALL ALL INPUT DEVICES WITH END OF LINE (EOL) RESISTORS FOR CIRCUIT SUPERVISION. EOL RESISTORS SHALL BE INSTALLED AT THE FIELD DEVICE. EOL RESISTORS INSTALLED AT THE CONTROLLER OR PANEL LOCATION SHALL NOT BE PERMITTED.
 - COMPLETE THE COMMISSIONING PROCESS WITH THE OWNER AND CONSULTANT BY DEMONSTRATING THE FULL FUNCTION OF EACH PACS DOOR AND DEVICE, INCLUDING VALID/INVALID CARD READ, VALID/INVALID BIOMETRIC READ, DOOR FORCED AND OPEN ALARMS, ETC.

VIDEO MANAGEMENT SYSTEM (VMS)

- VMS IS A EXISTING GENETEC SOLUTION, LOCATED ON CAMPUS.
- COORDINATE, FOCUS AND ADJUST FIELD OF VIEW (FOV) FOR EACH CAMERA WITH OWNER AND CONSULTANT.

SURVEILLANCE CAMERAS

- CAMERAS FOR THE VMS SHALL BE AXIS COMMUNICATIONS.
 - EXTERIOR CAMERAS
 - SHALL BE AXIS P3265-LVE
 - INTERIOR CAMERAS
 - SHALL BE AXIS P3265-LVE

FIELD DEVICES

- CARD READERS
 - CARD READERS SUPPLIED SHALL BE CAPABLE OF READING MULTIPLE CREDENTIAL FORMATS AND TECHNOLOGIES.
 - HID MULTICLASS SE OR EQUIVALENT.
 - REQUEST TO EXIT MOTION DETECTOR
 - REQUEST TO EXIT MOTION DETECTOR SHALL BE PROGRAMMED ONLY TO SHUNT DOOR CONTACT ALARM, AND SHALL NOT RELEASE DOOR LOCK.
 - KANTECH T-REX/L, BOSCH DS160, HONEYWELL IS320 OR EQUIVALENT.
 - MONITORING CONTACTS
 - DOORS
 - SHALL BE RECESS MOUNTED, EITHER ¾" OR 1" IN DIAMETER.
 - GE/INTERLOGIX 1076/1078 SERIES OR EQUIVALENT.
 - OVERHEAD DOORS
 - SHALL BE FIXED TO THEIR MOUNTING LOCATIONS USING APPROPRIATE HARDWARE.
 - GE/INTERLOGIX 2200 SERIES OR EQUIVALENT.
 - TAMPER SWITCHES
 - SHALL BE FIXED TO THE ENCLOSURE USING APPROPRIATE HARDWARE.
 - ADEMO BSS, POTTER SIGNAL PSW-22, OR EQUIVALENT.
 - AUTOMATIC OPERATOR SEQUENCER
 - SHALL BE INSTALLED AT ACCESS CONTROL DOORS REQUIRING AUTOMATIC OPERATORS TO MEET THE SEQUENCE OF OPERATIONS NOTED IN THE INTEGRATION SECTION.
 - CAMDEN CONTROLS CX-22 OR EQUIVALENT.

DOOR HARDWARE

- SUPPLY ALL DOOR HARDWARE AT PACS DOORS, INCLUDING BUT NOT LIMITED TO TRANSFER HINGES, DOOR CONTACTS.
- PROVIDE ALL LOCKSMITH SERVICES NECESSARY FOR CLEAN AND COMPLETE INSTALLATION OF ALL DOOR HARDWARE.
- SECURITY CONTRACTOR SHALL:
 - SUPPLY AND INSTALL ALL LOCKS AND LOCK POWER SUPPLIES TO PROVIDE POWER.
 - SUPPLY ALL LOCK POWER SUPPLIES WITH SUFFICIENT BATTERY BACKUP FOR EIGHT (8) CONTINUOUS HOURS OF OPERATION UPON FAILURE OF MAINS POWER.

NETWORK CABLING INFRASTRUCTURE

- CAT6 NETWORK INFRASTRUCTURE SUPPORTING ALL BSS EQUIPMENT SHALL BE INSTALLED BY DIVISION 27.

No.	ISSUANCE	DATE
1.	ISSUED FOR 50% CD	09-06-2024
2.	ISSUED FOR PERMIT	10-11-2024
3.	ISSUED FOR 100% CD	11-06-2024
4.	ISSUED FOR TENDER	11-15-2024

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
SPECIFICATIONS

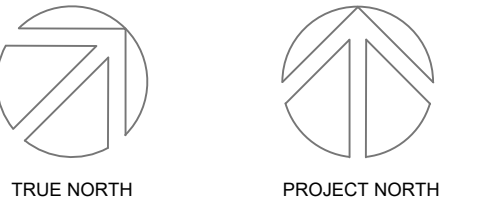
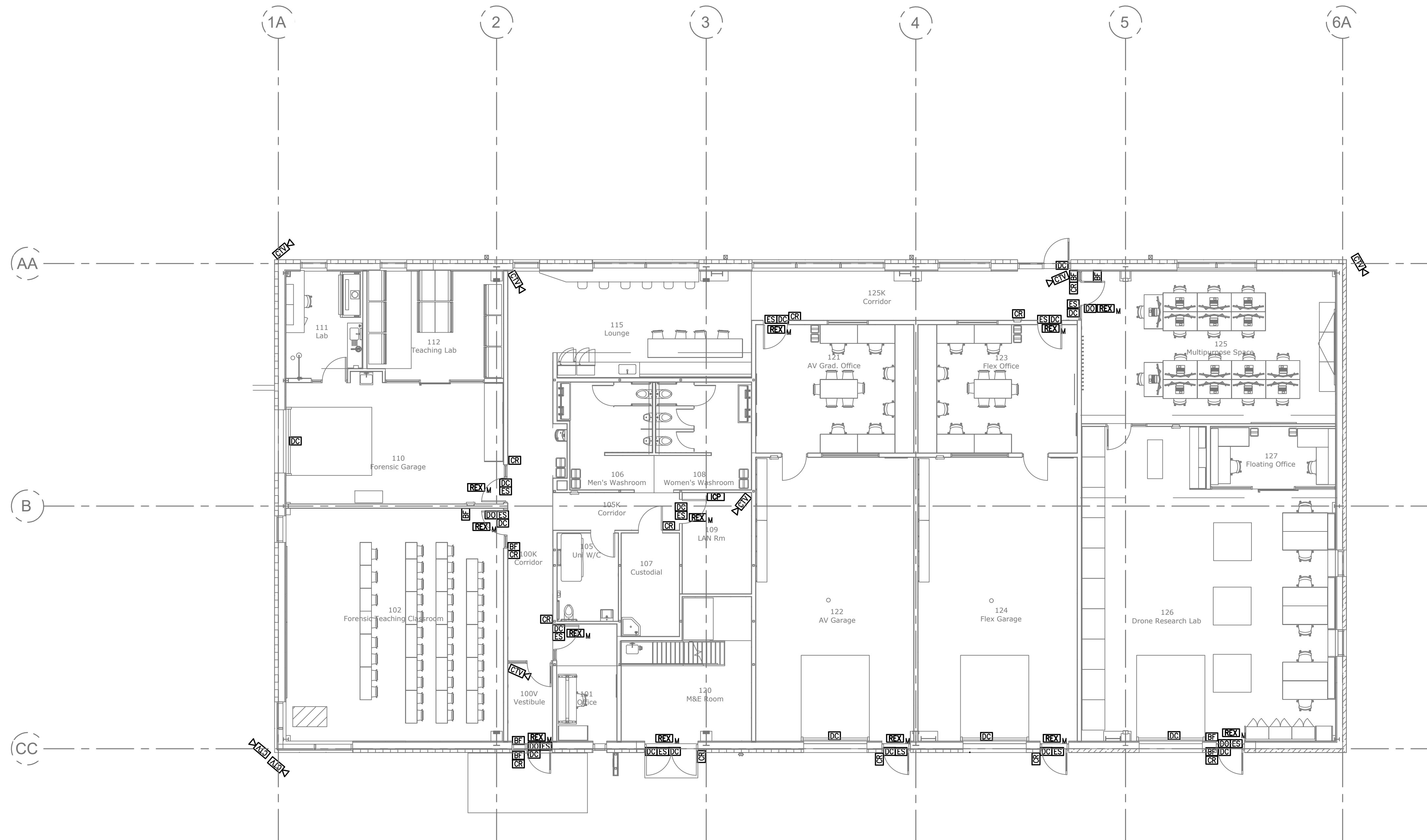


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SCALE : N.T.S.	SD-002
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : SS	
CHECKED BY : DR	



No.	ISSUANCE	DATE
1.	ISSUED FOR 50% CD	09-06-2024
2.	ISSUED FOR PERMIT	10-11-2024
3.	ISSUED FOR 100% CD	11-06-2024
4.	ISSUED FOR TENDER	11-15-2024

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PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
GROUND FLOOR SECURITY LAYOUT

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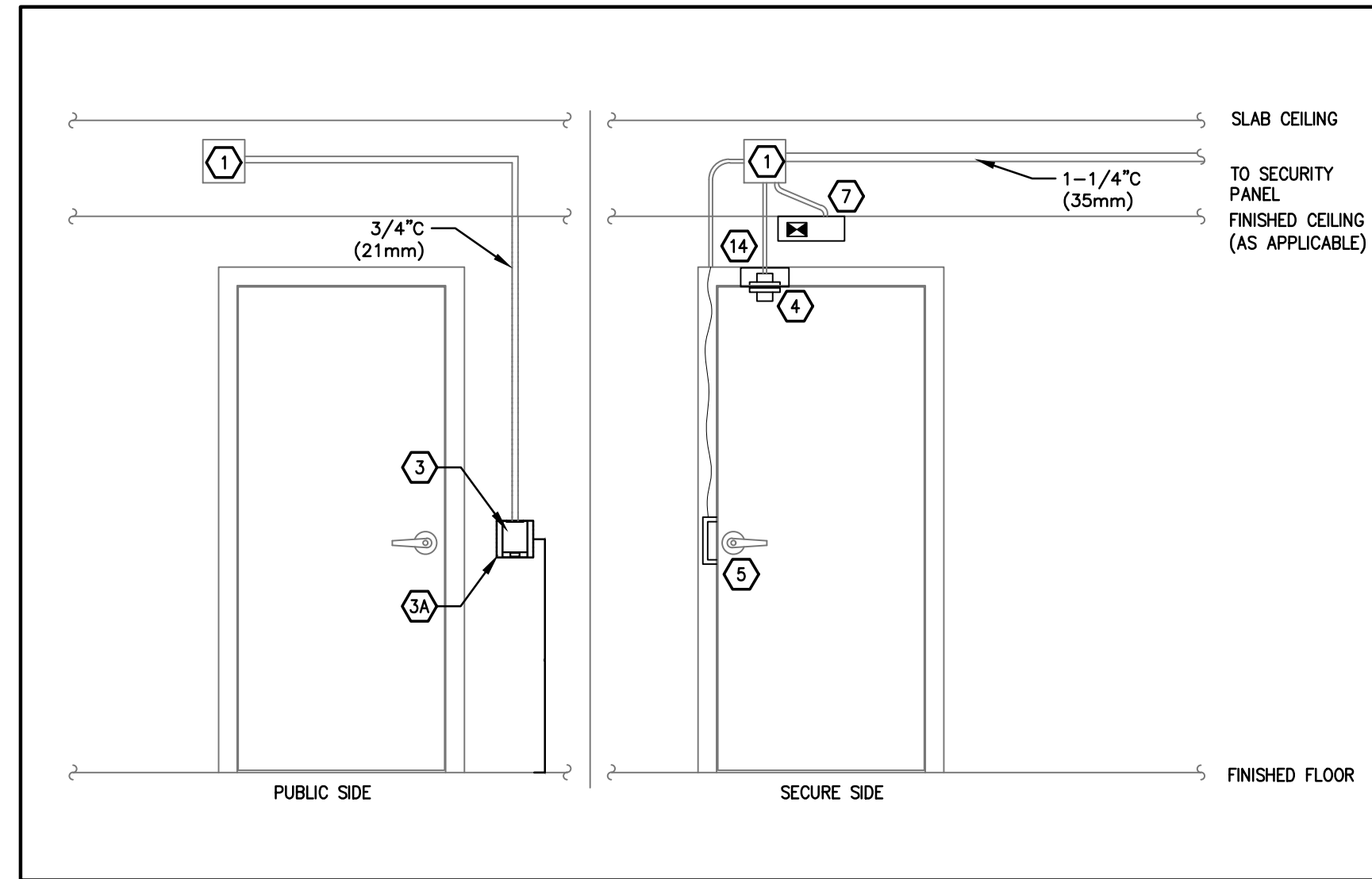
SD-201

DOOR LEGEND & MATERIALS

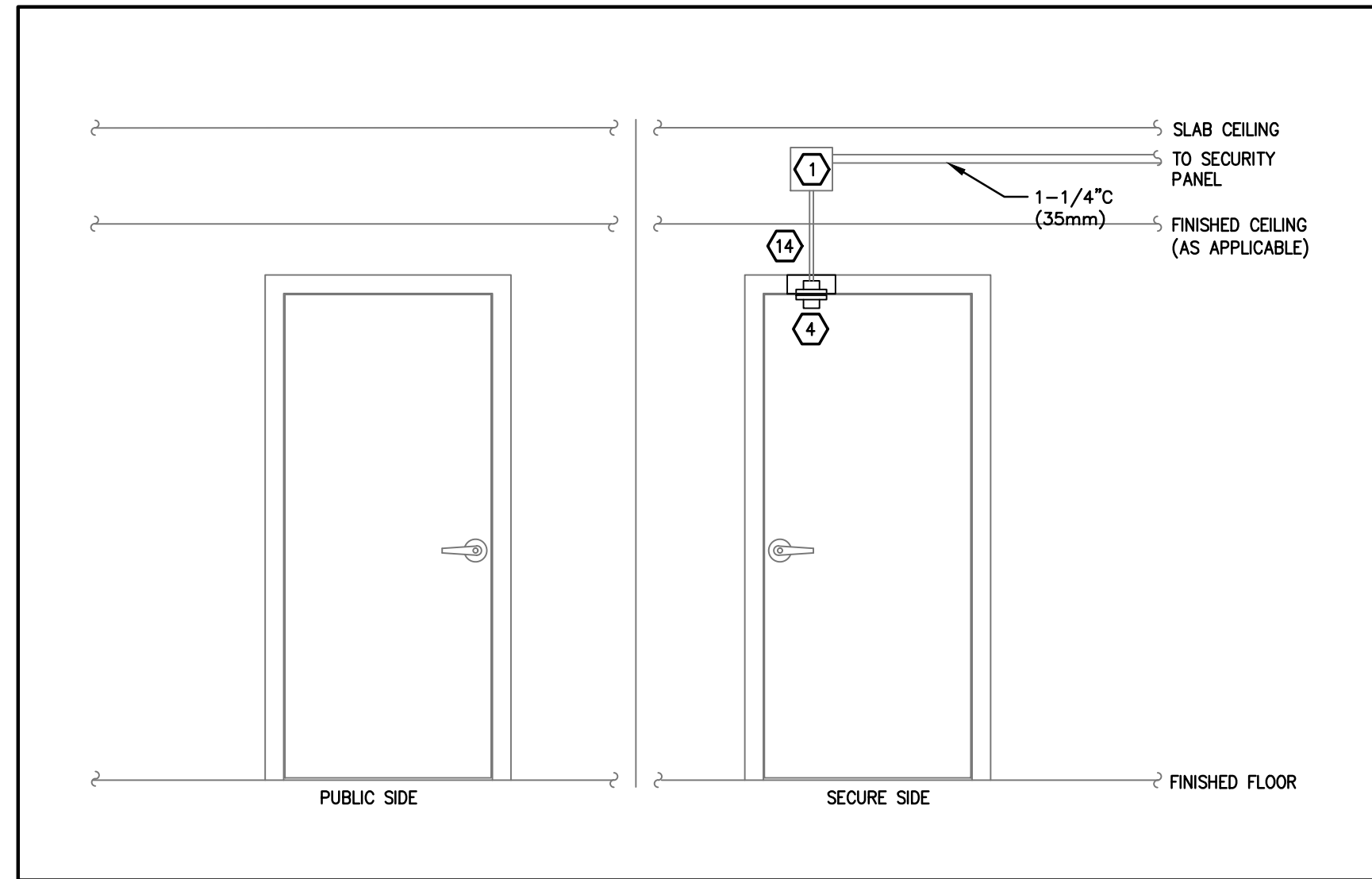
- ① SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR (BY ELECTRICAL)
- ② MAGNETIC LOCK
- ③ PROXIMITY CARD READER
- ③A DOUBLE GANG BACK BOX W/ SINGLE GANG TRIM PLATE (BY ELECTRICAL)
- ④ RECESSED DOOR POSITION SWITCH
- ⑤ ELECTRIC STRIKE
- ⑥ POWER TRANSFER HINGE
- ⑦ REQUEST TO EXIT MOTION DETECTOR
- ⑧ REQUEST TO EXIT PUSH BUTTON
- ⑨ AUTO DOOR OPERATOR EQUIPMENT (BY DOOR HARDWARE)
- ⑩ CONCEALED LATCHING DURESS BUTTON
- ⑪ SINGLE GANG LATCHING DURESS
- ⑫ MANUAL FIRE ALARM PULL STATION C/W AUXILIARY CONTACTS (BY FIRE ALARM CONTRACTOR)
- ⑬ MECHANICAL FLUSH BOLT
- ⑭ DUST BOX / MORTAR SHIELD IN FRAME AS REQUIRED (BY DOOR HARDWARE)
- ⑮ OVER HEAD DOOR POSITION SENSOR WITH FLEXIBLE ARMOR CONDUIT
- ⑯ AUTOMATIC DOOR OPERATOR PUSHBUTTON (BY DOOR HARDWARE)
- ⑰ GUESTROOM WIRELESS LOCKSET W/ INTEGRATED CARD READER AND DOOR POSITION SWITCH
- ⑱ WIRELESS LOCK GATEWAY
- ⑲ PANIC BAR
- ⑳ RETRACTABLE LATCH
- ㉑ FOH REMOTE CARD READER BEHIND DECORATIVE PLATE
- ㉒ ELECTRIC MORTISE LOCK W/ INTEGRATED REQUEST TO EXIT
- ㉓ WIRELESS LOCK SET WITH INTEGRATED CARD READER, DOOR SWITCH, AND REQUEST TO EXIT
- ㉔ INTERCOM
- ㉕ ELECTRIFIED PANIC W/ INTEGRATED REQUEST TO EXIT
- ㉖ WIRED LOCK GATEWAY
- ㉗ GUESTROOM MANAGEMENT SYSTEM CONTROLLER BY GUESTROOM MANAGEMENT

LINE TYPES LEGEND

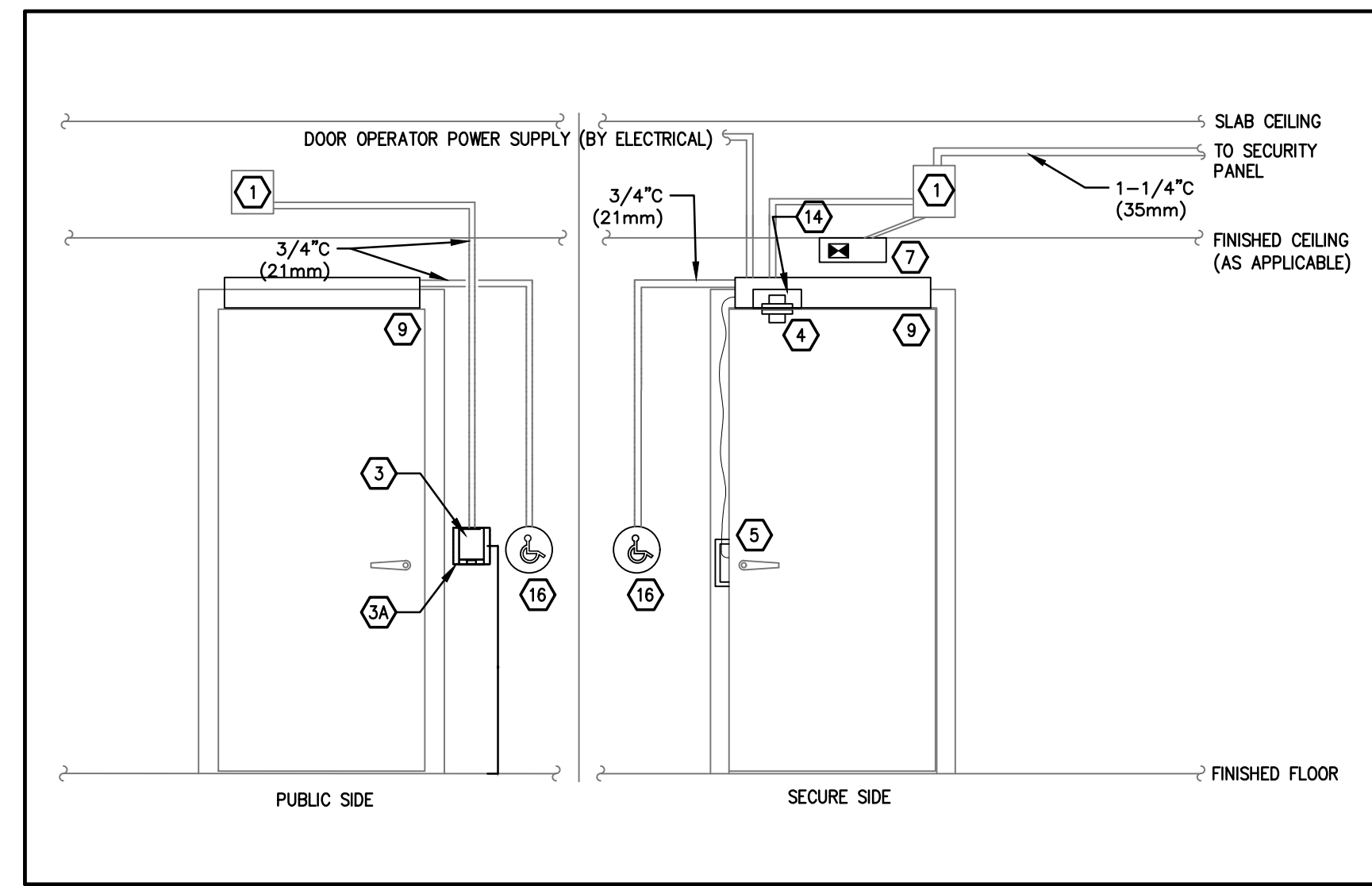
- CABLE RAN INSIDE DOOR FRAMES/DOORS
- CONDUIT INSTALLED IN WALL SPACE
- CONDUIT INSTALLED IN CEILING SPACE



01 SINGLE DOOR W/ READER IN, ELECTRIC STRIKE
SD-401 SCALE: N.T.S.



02 MONITORED SINGLE DOOR
SD-401 SCALE: N.T.S.



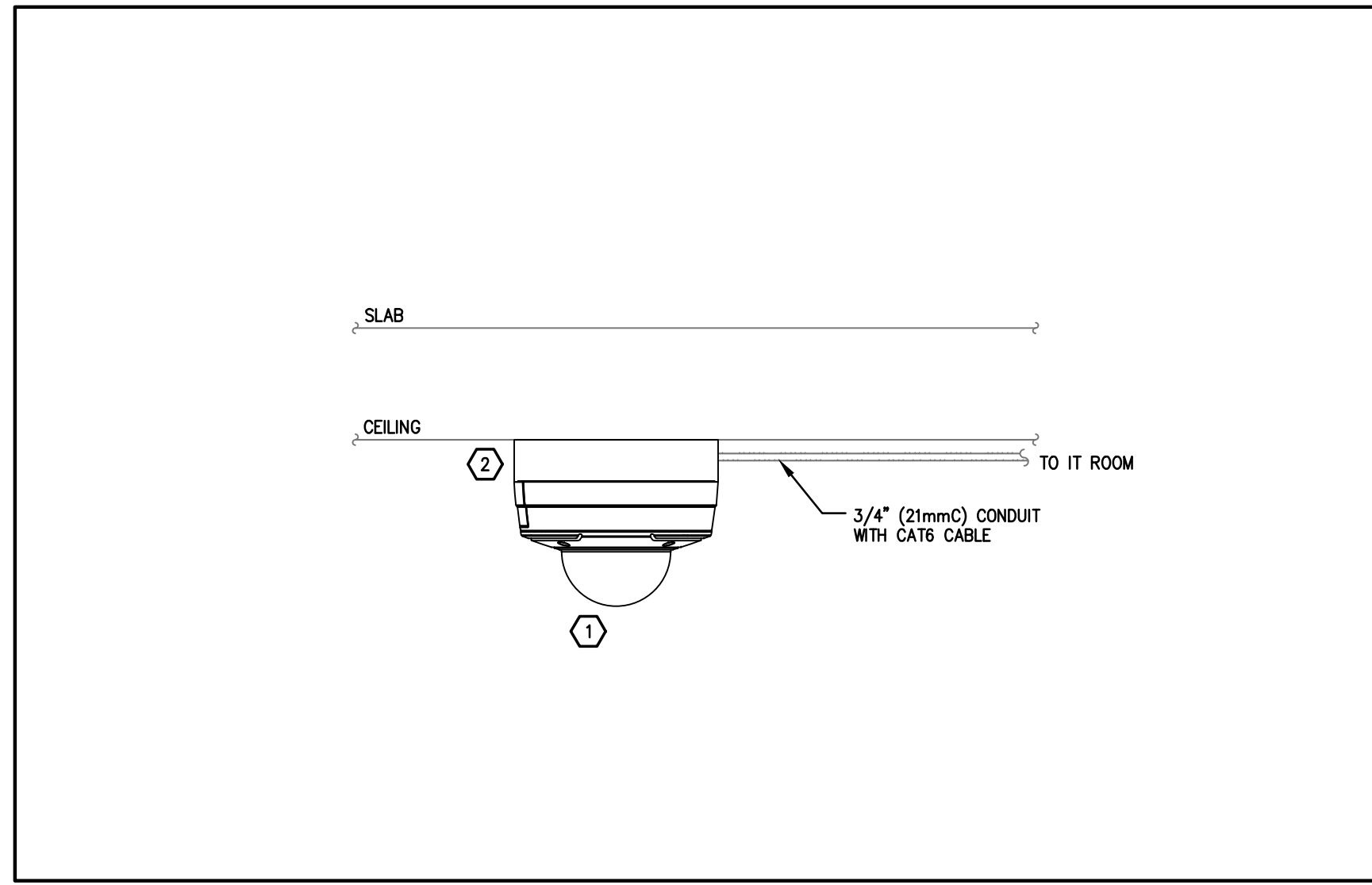
03 SINGLE DOOR W/ READER IN, BARRIER FREE, ELECTRIC STRIKE
SD-401 SCALE: N.T.S.

CAMERA LEGEND & MATERIALS

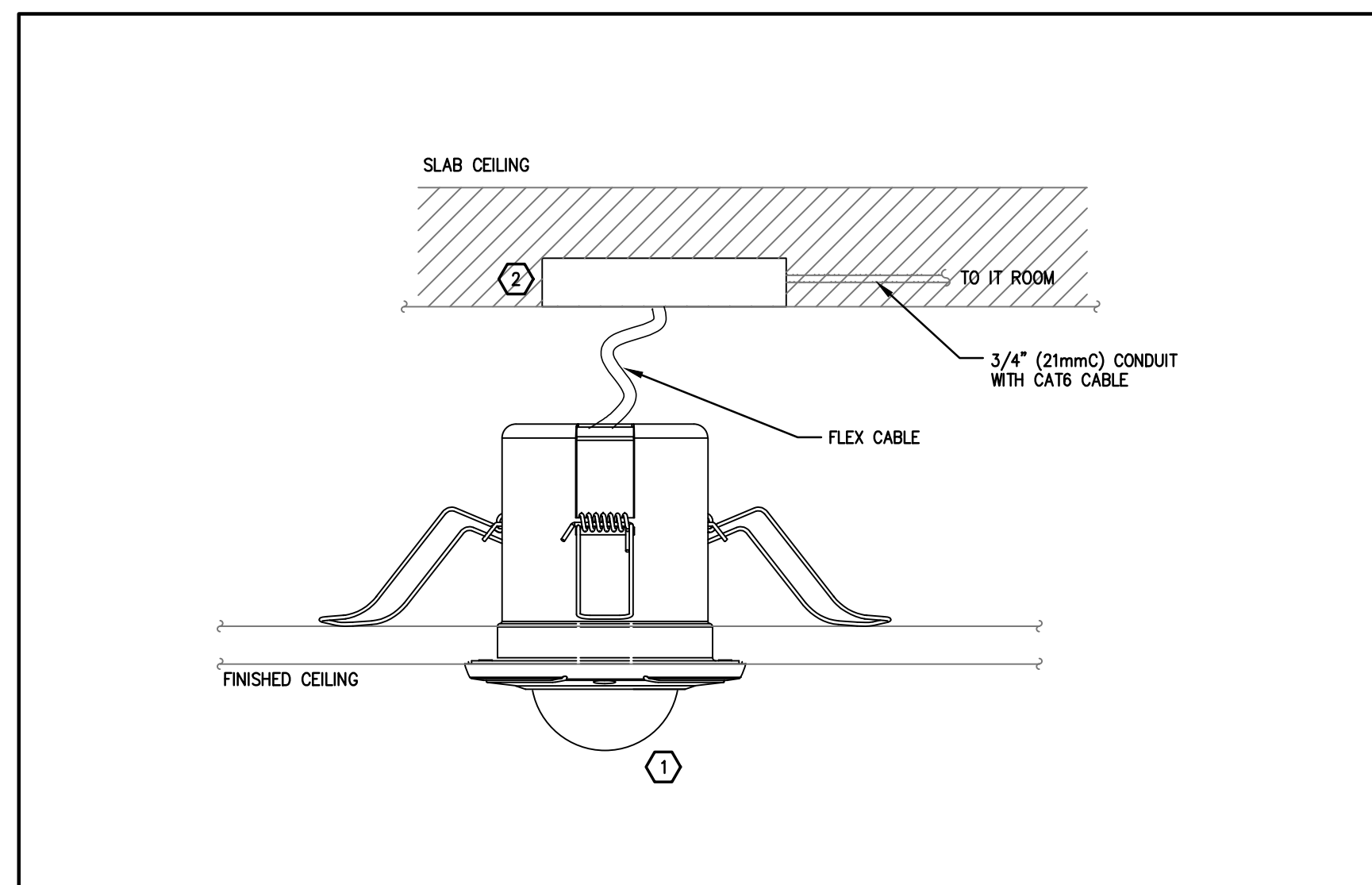
- ① SECURITY CAMERA
- ② SECURITY JUNCTION BOX
- ③ UTP MEDIA CONVERTOR
- ④ POE INJECTOR
- ⑤ CAMERA POWER SUPPLY
- ⑥ RECEPTACLE (BY ELECTRICAL CONTRACTOR)
- ⑦ PENDANT ADAPTOR
- ⑧ SECURITY JUNCTION BOX
- ⑨ STEEL STRAPS
- ⑩ PENDANT KIT
- ⑪ AUXILIARY DEVICE (GLASS BREAK, AUDIBLE ALARM, MOTION DETECTOR, ETC.)
- ⑫ BLUE STROBE LIGHT
- ⑬ PUSH RED BUTTON FOR ASSISTANCE
- ⑭ SPEAKER
- ⑮ MICROPHONE
- ⑯ VIDEO CAMERA FOR ASSISTANCE STATION
- ⑰ PARAPET MOUNT

LINE TYPES LEGEND

- CABLE RAN INSIDE DOOR FRAMES/DOORS
- CONDUIT INSTALLED IN WALL SPACE



04 TYPICAL SURFACE MOUNT CAMERA
SD-401 SCALE: N.T.S.



05 TYPICAL RECESSED MOUNTED CAMERA
SD-401 SCALE: N.T.S.

No.	ISSUANCE	DATE
1.	ISSUED FOR 50% CD	09-06-2024
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3.	ISSUED FOR 100% CD	11-06-2024
4.	ISSUED FOR TENDER	11-15-2024

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PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

DETAILS

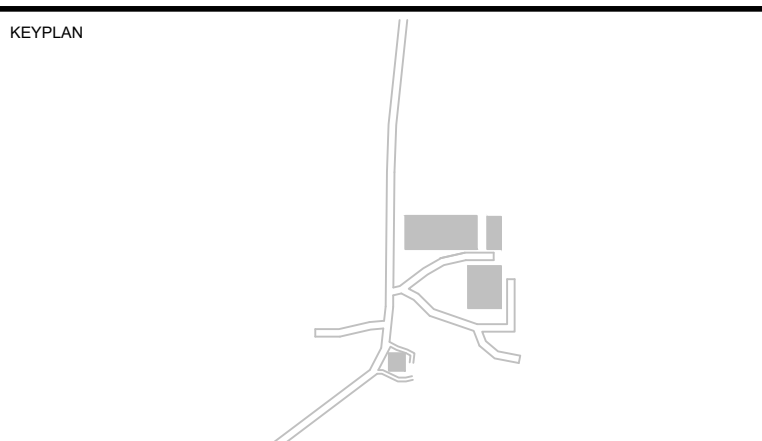
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DATE: FEB 2024	
PROJECT NO: 2023-0059	
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SD-401

UNIVERSITY OF TORONTO MISSISSAUGA - ROBOTICS LABORATORY ENVIRONMENT BUILDING

3359 MISSISSAUGA ROAD
AUDIO-VISUAL SYSTEMS DRAWINGS
ISSUED FOR AV TENDER - 2024.11.15



SCOPE ITEM	AUDIOVISUAL CONTRACTOR (A.V.C.)	ELECTRICAL CONTRACTOR (E.C.)	GENERAL CONTRACTOR (G.C.)	COMMUNICATIONS CONTRACTOR (C.C.)
AV SYSTEMS CONDUIT, BACKBOXES AND CABLE TRAYS	–	PROVIDE PULL-READY SYSTEM INCLUDING ALL CONDUIT, BACKBOXES AND CABLE TRAYS. ALL CONDUITS TO BE COMPLETE WITH PULLSTRING.	–	–
AV WALLBOX CONNECTOR PLATES, CUSTOM OR STANDARD	PROVIDE, FINISH PER ARCHITECT'S INSTRUCTIONS	–	–	–
AV FLOORBOXES	MODIFY PLATES TO SUIT FLOORBOX AND INSTALL	PROVIDE FLOORBOX; COORDINATE BOX TYPE WITH AV CONSULTANT; SUPPLY SAMPLE IF REQUESTED, SUPPLY BLANK PLATES TO AV CONTRACTOR	–	–
AV SYSTEMS CABLE (LOW VOLTAGE, INCLUDING NETWORK CABLING WITH PATCH CABLES FOR AV SYSTEMS)	PROVIDE	–	–	–
AC OUTLETS FOR DISPLAYS, PROJECTORS, AV EQUIPMENT, FLOORBOXES, ETC	–	PROVIDE	–	–
DIRECT POWER CONNECTIONS FOR AV SYSTEMS RACKS	PROVIDE DISTRIBUTION WITHIN RACK	PROVIDE POWER CIRCUITS AS REQUIRED AT LOCATIONS NOTED ON DRAWINGS. COORDINATE LOCATIONS WITH AV CONTRACTOR. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.	–	–
LAN DROPS FOR OWNER NETWORK	SPECIFY LOCATIONS AND COORDINATE WITH C.C.	–	–	PROVIDE. REFER TO COORDINATION MATRIX FOR LOCATIONS AND QUANTITIES
PATCH CABLING TO CLIENT NETWORK FOR AV DEVICES	INSTALL	–	–	SUPPLY
MILLWORK FURNITURE (TABLES, RACK ENCLOSURES, LECTERNS AND CREDENZAS)	FIT-UP MILLWORK WITH AV DEVICES, COORDINATE WITH DESIGNERS, G.C., E.C. AND FURNITURE/MILLWORK MANUFACTURER	PROVIDE POWER AND LAN CONNECTIVITY SHOWN ON DRAWINGS AND INSTALL ROUGH-INS AS REQUIRED	PROVIDE AND COORDINATE CUTOUTS, WIRING AND DEVICE PLACEMENTS	–
DISPLAY AND PROJECTOR MOUNTING	SUPPLY AND INSTALL STANDARD OR CUSTOM BRACKETS AS REQUIRED	–	PROVIDE BLOCKING AND MISCELLANEOUS METALS AS REQUIRED	–
CEILING MOUNTED LOUDSPEAKER BACKBOXES INTO DRYWALL CEILINGS	PROVIDE	PROVIDE CONDUIT TO SPEAKER BACKBOXES. COORDINATE WITH AV CONTRACTOR ON SITE	PROVIDE CEILING SPEAKER CUTOUTS	–
CEILING MOUNTED LOUDSPEAKERS INTO TILE CEILINGS	PROVIDE	–	PROVIDE CEILING SPEAKER CUTOUTS	–
AV SYSTEMS ELECTRONICS, HARDWARE, RACKS (PERMANENT AND PORTABLE)	PROVIDE; REUSE OWNER SUPPLIED EQUIPMENT AS NOTED IN TENDER DOCUMENTS	–	–	–
AV CONTROL SYSTEM PAGE DESIGN AND TESTING	PROVIDE; WRITE ALL PROGRAMMING CODE; DESIGN AND IMPLEMENT	–	–	–
LOW VOLTAGE RELAY CONTROLLERS (LVC) FOR MOTORIZED PROJECTION SCREENS AND LIFTS	SUPPLY LVC TO E.C.; PROVIDE LOW VOLTAGE CONTROL CABLE	PROVIDE HIGH VOLTAGE CABLE, TERMINATIONS AND LABOR AS REQUIRED	PROVIDE ACCESS HATCH AS REQUIRED FOR BACKBOX ACCESS	–
INTELLIGENT LIGHTING AND BLIND/SHADE SYSTEMS	CONNECT AV CONTROL SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH E.C.	PROVIDE LIGHTING/BLIND SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH A.V.C.	PROVIDE BLINDS SYSTEM AND SHADE MOTOR GROUP CONTROLLERS.	–
CEILING RECESSED PROJECTION SCREENS	PROVIDE	PROVIDE HIGH VOLTAGE CABLE TO LVC	PROVIDE CUTOUT. FINISH CEILING AFTER INSTALLATION.	–
FIRE ALARM CONNECTION	PROVIDE MUTE FUNCTIONALITY ON ALL SOUND SYSTEMS. TO BE TRIGGERED ON ACTIVATION OF FIRE ALARM.	PROVIDE FACP DRY CONTACT RELAY CONNECTION TO AV CONTRACTOR	–	–
REMOVAL OF EXISTING INSTALLED AUDIOVISUAL EQUIPMENT NOT PLANNED FOR REUSE	COORDINATE. IF AV CONTRACTOR IS NOT ONBOARD, COORDINATE WITH AV CONSULTANT.	–	PROVIDE REMOVAL AND DISPOSAL	–
THE SCOPE OF WORK OF THE TRADES AS IT RELATES TO AUDIO VISUAL SYSTEMS IS DESCRIBED IN THE TABLE ABOVE. THE TERM "PROVIDE" MEANS "SUPPLY, INSTALL, TERMINATE, TEST AND COMMISSION"				

2 DIVISION OF RESPONSIBILITY
AV000

AV DRAWING LIST	
DWG NO.	DRAWING TITLE
AV000	AV DRAWING LIST
AV001	AV LEGENDS, NOTES & COORDINATION MATRIX
AV101A	GROUND LEVEL – AV DEVICE FLOOR PLAN
AV101B	GROUND LEVEL – AV DEVICE FLOOR RCP
AV200	AV ELEVATIONS
AV300	AV CONDUIT NOTES
AV301	AV RISER DIAGRAMS
AV400	AV DETAILS
AV401	AV DETAILS
AV500	AV FUNCTIONALS
AV501	AV FUNCTIONALS
AV502	AV FUNCTIONALS

1 DRAWING LIST
AV000

No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

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TITLE
AV DRAWING LIST

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Baird Sampson Neuert

416.363.8877 bsnarchitects.com

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SCALE: 1:100 SHEET NO: **AV000**

DATE: _____

PROJECT NO: _____

DRAWN BY: S.R.

CHECKED BY: P.G.

AUDIOVISUAL				ELECTRICAL							COMMUNICATION	MECHANICAL	GENERAL	
DEVICE DETAILS				REQUIREMENTS							LAN DROPS FOR OWNER NETWORK	HEAT LOAD	NOTES	
SYMBOL NAME	SYMBOL	ID	MOUNTING HEIGHT (TO CENTRE LINE)	AV BACKBOX/MUDRING SIZE	BACKBOX/MUDRING MOUNTING HEIGHT	VOLTAGE [V]	CURRENT [A]	UNIT POWER [W]	GROUND TYPE	TYPE		QUANTITY		UNIT HEAT [BTU]
65" WALL MOUNT FLAT PANEL DISPLAY		FPD1	1625mm (64") AFF	(1)2 GANG AV MUDRING	1830mm (72") AFF	120	2	240	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	818.88	
32" WALL MOUNT FLAT PANEL DISPLAY		FPD2	1625mm (64") AFF	(1)2 GANG AV MUDRING	1830mm (72") AFF	120	1	120	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	409.44	
SHORT THROW PROJECTOR		PROJ	2685mm (106") AFF	(1)2 GANG AV MUDRING	2685mm (106") AFF	120	4	480	NORMAL	5-15R	(1)QUAD	-	1637.76	
WALL MOUNT PTZ CAMERA		CAM1	2135mm (84") AFF	(1)2 GANG AV MUDRING	2135mm (84") AFF	-	-	-	-	-	-	-	-	
CEILING MOUNT PTZ CAMERA		CAM2	AT FINISHED CEILING	-	-	-	-	-	-	-	-	-	-	
FLOORBOX TABLE MONUMENT		FB1	AT FINISHED FLOOR	(1)2 GANG OPENING AT FLOORBOX	AT FINISHED FLOOR	120	1	120	NORMAL	5-15R	(1)DUPLX	(2)NETWORK DROPS	409.44	
PODIUM		FB2	AT FINISHED FLOOR	(1)4 GANG OPENING AT FLOORBOX	AT FINISHED FLOOR	120	20.00	2400	ISOLATED	5-20R	(2)DUPLX	(6)NETWORK DROPS	5118	DEDICATED CIRCUITS REQUIRED, WITH ISOLATED GROUND, FIRE ALARM, LIGHTING INTERCONNECTION REQUIRED.
WALL MOUNT BUTTON CONTROL PANEL		BP	AT SWITCH HEIGHT	(1)1 GANG AV MUDRING	AT SWITCH HEIGHT	-	-	-	-	-	-	-	-	
WIRELESS MIC ANTENNA		ANT1	AT FINISHED CEILING	(1)1 GANG AV BACKBOX	AT FINISHED CEILING	-	-	-	-	-	-	-	-	
WIRELESS ASSISTIVE LISTENING SYSTEM ANTENNA		ALS	2135mm (84") AFF	(1)1 GANG AV BACKBOX	2135mm (84") AFF	-	-	-	-	-	-	-	-	
CEILING MICROPHONE		MIC1	AT FINISHED CEILING	-	-	-	-	-	-	-	-	-	-	
PENDANT SPEAKERS		S1	AT FINISHED CEILING	(1)1 GANG AV BACKBOX	AT FINISHED CEILING	-	-	-	-	-	-	-	-	
CREDENZA RACK		RACK1	AT RECEPTACLE HEIGHT	(1)PULL BOX SIZED TO CONDUIT REQUIREMENTS	AT RECEPTACLE HEIGHT	120	20.00	2400	ISOLATED	5-20R	(2)QUAD	(4)NETWORK DROPS	5118	DEDICATED CIRCUITS REQUIRED, WITH ISOLATED GROUND, FIRE ALARM & LIGHTING INTERCONNECTION REQUIRED.

3 AV001 AV COORDINATION MATRIX

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS AND SPECIFICATION. ANY DISCREPANCIES OR CONFLICT BETWEEN CONSULTANT'S DRAWINGS FOR A/V SCOPE, SHALL BE REPORTED TO S+A IMMEDIATELY FOR CLARIFICATION.
- ALL EQUIPMENT AND CABLING HAVE BEEN SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR IS TO PROVIDE SHOP DRAWINGS FOR ALL HARDWARE, FIXTURES AND EQUIPMENT, FOR CONSULTANT'S APPROVAL PRIOR TO PURCHASE.
- ALL DEVICE LOCATIONS ARE SCHEMATIC ONLY. EXACT LOCATIONS SHOULD BE LOCATED USING ARCHITECTURAL OR INTERIOR DESIGN DRAWINGS. IF LOCATION IS UN-CLEAR A REQUEST FOR INFORMATION SHOULD BE ISSUED.
- CONTRACTOR TO ENSURE ALL WORK INSTALLATIONS ARE IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR MUST REVIEW SITE AND ENSURE ALL AV WORK WITHIN EXTENT IS INCLUDED IN THE AV CONTRACT.
- CARE AND ATTENTION SHALL BE MADE TO ALL DRAWING NOTES AND ITEMS INCLUDED WITHIN SPECIFICATION FOR INCLUSION IN SCOPE OF WORK. QUESTIONS OR CONCERNS SHALL BE REPORTED TO CONSULTANT BY THE BIDDER PRIOR TO AWARD FOR TENDER. OTHERWISE, SUCCESSFUL BIDDER ASSUMES ALL RESPONSIBILITY FOR INCLUDING ALL EQUIPMENT AND PROVISIONS AS STATED WITHIN THE DRAWING AND SPECIFICATION PACKAGE IN SCOPE OF WORK.
- ALL EQUIPMENT INSTALLATIONS SHALL ADHERE TO EXACT MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS. ANY INSTALLATIONS NOT MEETING CORRECT INSTALLATION METHODS AS OUTLINED BY THE MANUFACTURER SHALL BE RECTIFIED TO OPERATE AS INTENDED AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR TO COORDINATE ON SITE WITH OTHER TRADES FOR EXACT LOCATION AND MOUNTING HEIGHTS OF REQUIRED BACKBOXES AND RECEPTACLES FOR DISPLAYS, PROJECTORS, SPEAKERS AND OTHER AV EQUIPMENT. ALL RECEPTACLES SHALL BE CONCEALED BEHIND EQUIPMENT.
- ALL EQUIPMENT MUST BE SECURELY FASTENED AND INSTALLED TO SUPPORT WEIGHT, USER FUNCTION AND OPERATION. SCREENS SHALL BE ANCHORED TO STUDS AND SUPPORTED BY THREADED RODS AND CHAIN LINKS. PROJECTOR POLE MOUNTS AND DISPLAYS SHALL ALSO BE ANCHORED TO STUDS, AS REQUIRED TO SUPPORT EQUIPMENT FUNCTION. CONTRACTOR TO WARRANTY INSTALLATION FROM ANY IMPROPER INSTALLATION WITH NO EXPENSE TO THE USER.
- AV CONTRACTOR SHALL INCLUDE FOR ALL MISCELLANEOUS CONNECTORS, SIGNAL CONVERTERS, SIGNAL REPEATERS, EXPANSION MODULES, POLE EXTENSIONS, SHELVING, MOUNTING HARDWARE ETC. THAT IS NOT STATED BUT IS REQUIRED TO COMPLETE THE SCOPE OF WORK AND PROVIDE THE SYSTEM FUNCTIONALITY AS WAS INTENDED WITH NO DEGRADATION IN QUALITY AND PERFORMANCE. ANY CONCERNS WITH RESPECT TO EQUIPMENT NOT INCLUDED WITHIN THE SCOPE OF WORK SHALL BE REPORTED TO THE CONSULTANT PRIOR TO TENDER CLOSE FOR INCLUSION. FAILURE TO DO SO WILL BE AT THE EXPENSE OF THE BIDDER/SUCCESSFUL CONTRACTOR DURING CONSTRUCTION AND EXTRAS WILL NOT BE TOLERATED.
- REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND SECURITY DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH AUDIOVISUAL SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
- DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHES/DETAIL UNLESS INDICATED SPECIFICALLY ON AN ELEVATION DRAWING.
- DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
- INFORM THE ENGINEER'S REPRESENTATIVE AND GC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.

1 GENERAL NOTES - AUDIOVISUAL BIDDER INFORMATION

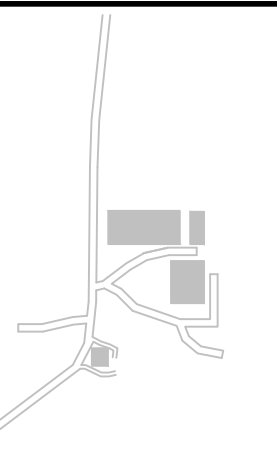
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AUDIO VISUAL SYSTEM	PROJ-## 	PROJECTOR.
	DEVICE IDENTIFICATION NUMBER	LIFT-## 	PROJECTOR ON LIFT.
RACK-## 	AV EQUIPMENT RACK RACK 'ID' DESIGNATION: 'AV' = FREE STANDING EQUIPMENT RACK. 'CR' = CREDENZA RACK. 'RC' = RACK ON CASTERS.	SCR-## 	PROJECTION SCREEN. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)
TAG-## 	WALL MOUNT FLAT PANEL DISPLAY. DISPLAY 'TAG' DESIGNATION: 'FPD' = FLAT PANEL DISPLAY. 'IAD' = INTERACTIVE DISPLAY. 'DS' = DIGITAL SIGNAGE DISPLAY. 'MW' = MEDIA WALL DISPLAY(S). SEE DRAWING FOR QUANTITIES. 'VW' = VIDEO WALL NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)	TAG-## 	CEILING RECESSED SPEAKER. 'S' = AV SPEAKER. 'POS' = PAGING SPEAKER.
TAG-## 	CEILING MOUNT FLAT PANEL DISPLAY. DISPLAY 'TAG' DESIGNATION: 'PMD' = POLE MOUNT FLAT PANEL DISPLAY. 'PDD' = POLE MOUNT DUAL FLAT PANEL DISPLAYS. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)	TAG-## 	SURFACE MOUNT SPEAKER. 'TAG' DESIGNATION: 'S' = AV SPEAKER. 'POS' = PAGING SPEAKER. 'SC' = SPEAKER CLUSTER
TAG-## 	WALL MOUNT AV INTERFACE. 'TAG' DESIGNATION: 'RSD' = ROOM SCHEDULING DISPLAY. 'MRD' = MEETING ROOM DISPLAY. 'CTL' = TOUCH CONTROL PANEL. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)	TAG-## 	WALL MOUNT ANTENNA. 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA. 'ALS' = ASSISTIVE LISTENING ANTENNA.
TAG-## 	BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR. 'TAG' DESIGNATION: 'BP' = BUTTON PANEL. 'VC' = VOLUME CONTROL. 'SC' = SCREEN CONTROL (FOR PROJECTION SCREENS).	TAG-## 	CEILING MOUNT ANTENNA. 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA. 'ALS' = ASSISTIVE LISTENING ANTENNA.
FB-## 	FLOORBOX CONNECTION FOR TABLETOP CONNECTIVITY.	MIC-## 	CEILING MOUNT MICROPHONE.
CAM-## 	WALL MOUNT AV CAMERA.	AV-## 	AV MUDRING AV INPUT PLATE. (1 GANG) (2 GANG)
CAM-## 	CEILING MOUNT AV CAMERA.	AV-## 	AV BACKBOX. (1 GANG) (2 GANG) (3 GANG)
OC-## 	OCCUPANCY SENSORS.	AV 	AV CABLE PULL BOX. SIZE DESIGNATION: '6X6' = 6X6X6 AV CABLE PULL BOX. '12X12' = 12X12X6 AV CABLE PULL BOX.
PT-## 	PARTITION SENSORS.		

2 AUDIO-VISUAL LEGEND

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS. REFER TO AV COORDINATION MATRIX OR AV CONSULTANT DRAWINGS FOR BACKBOX SIZE, MOUNTING HEIGHT, AND ALL INFRASTRUCTURE REQUIREMENTS.



KEEP PLAN



No.	ISSUANCE	DATE
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TITLE
AV LEGENDS, NOTES & COORDINATION MATRIX



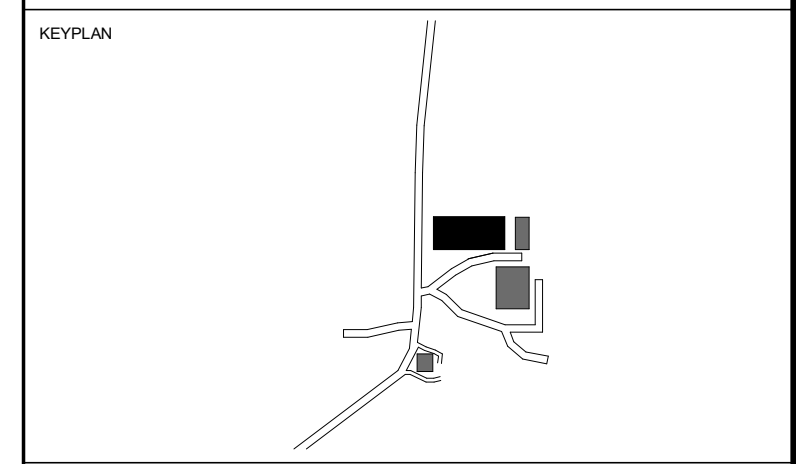
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AV001

DRAWING NOTE:
 (N-1) INFRASTRUCTURE ONLY. FOR FUTURE USE. REFER TO AV001 (AV COORDINATION MATRIX) FOR REQUIREMENTS.



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 University of Toronto Mississauga

PROJECT
 Robotics Laboratory Environment Building
 3350 Mississauga Road

TITLE
 GROUND FLOOR - AV DEVICE FLOOR PLAN

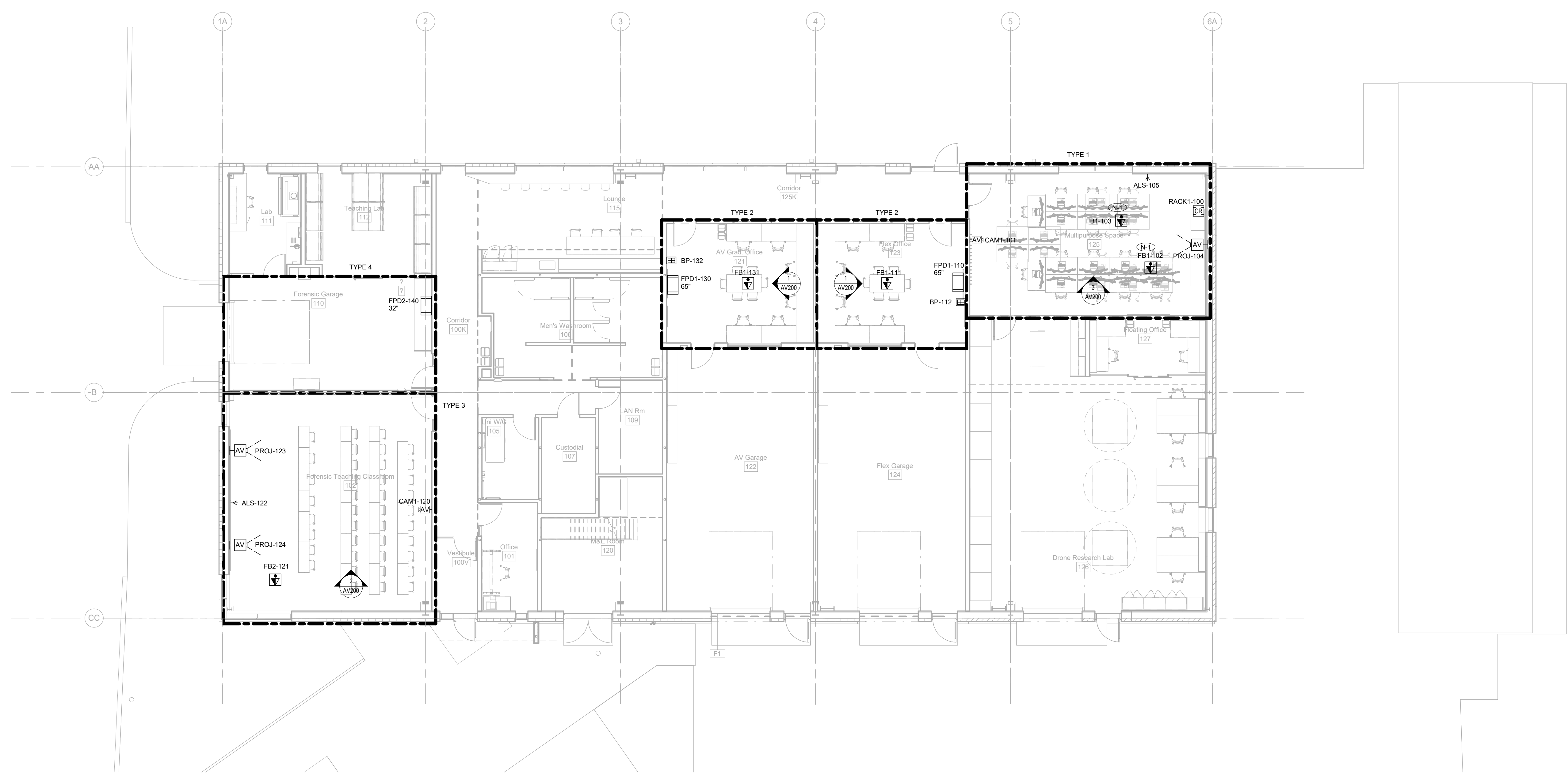
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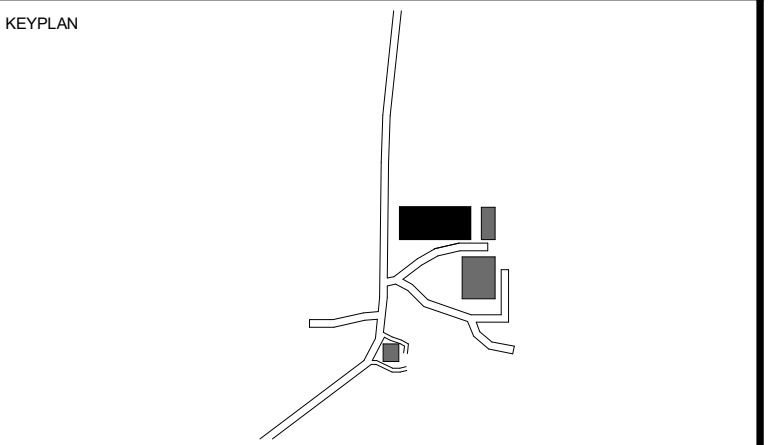
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DRAWN BY:	Author
CHECKED BY:	Checker
SHEET NO.:	AV101A



DRAWING NOTE:
 (N-1) THE CAMERA BE CEILING-MOUNTED, 360 DEGREE RANGE, ABOVE THE VEHICLE LOCATION, SLIGHTLY TOWARDS THE REAR SIDE. THE CAMERA SHOULD BE POSITIONED BELOW THE LIGHT FIXTURES, WHICH ARE AT 3650MM AFF.



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PROJECT
 Robotics Laboratory Environment Building
 3350 Mississauga Road

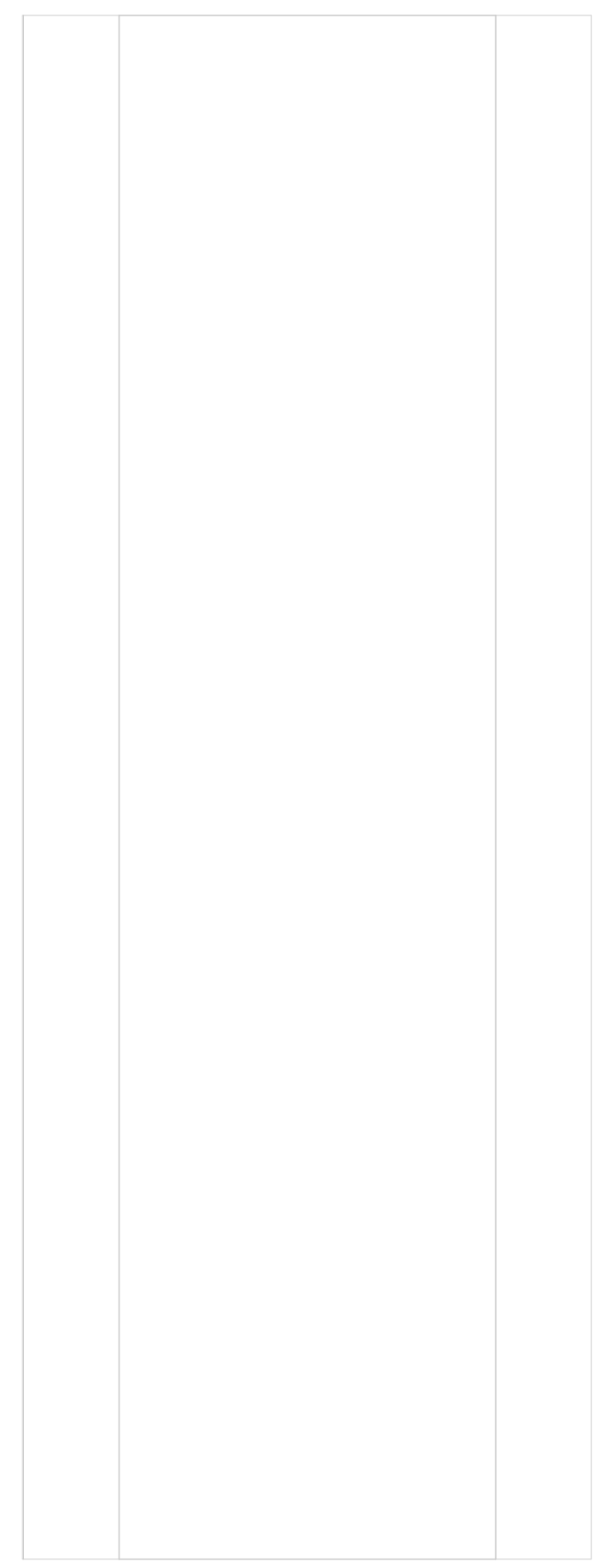
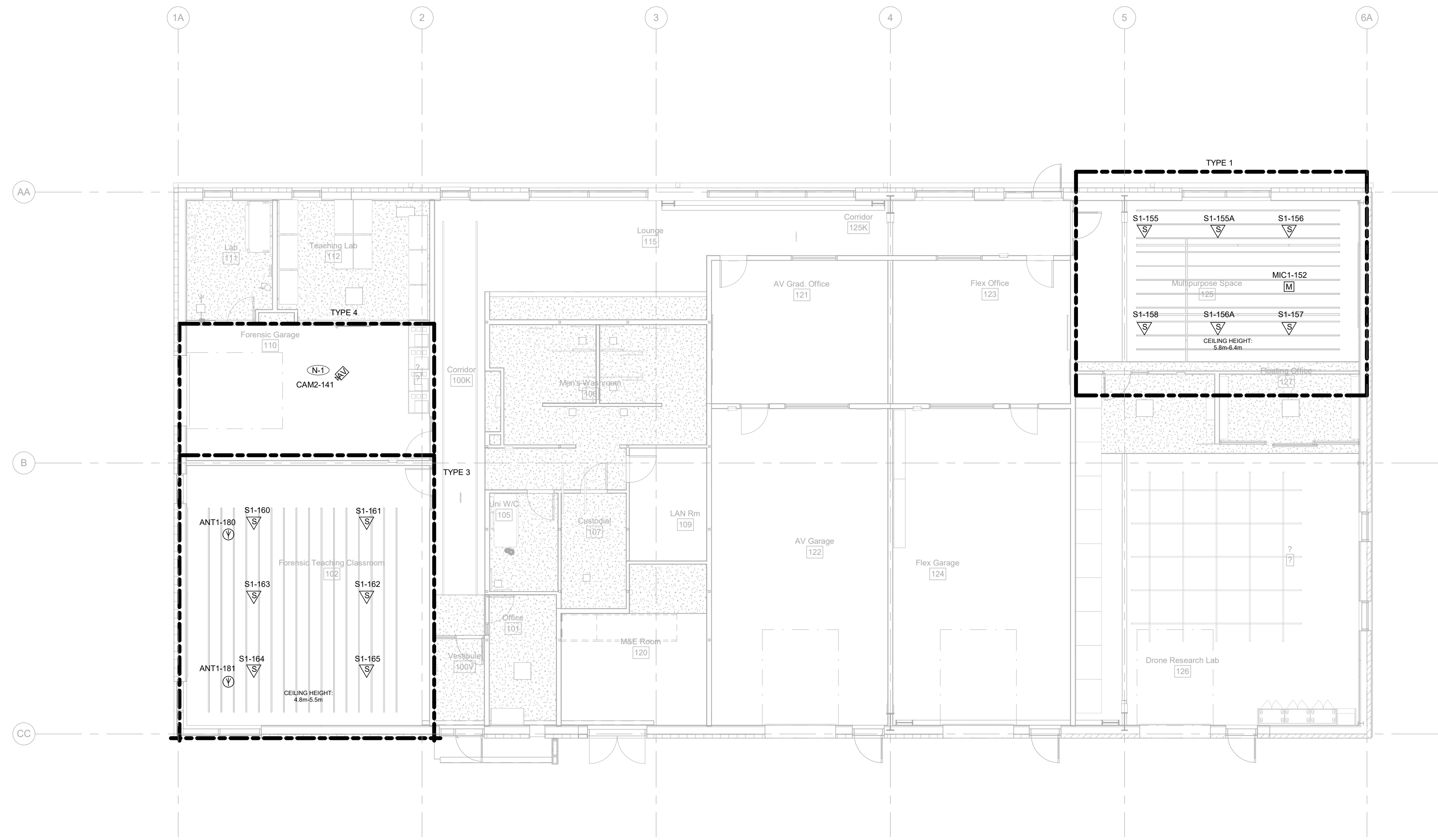
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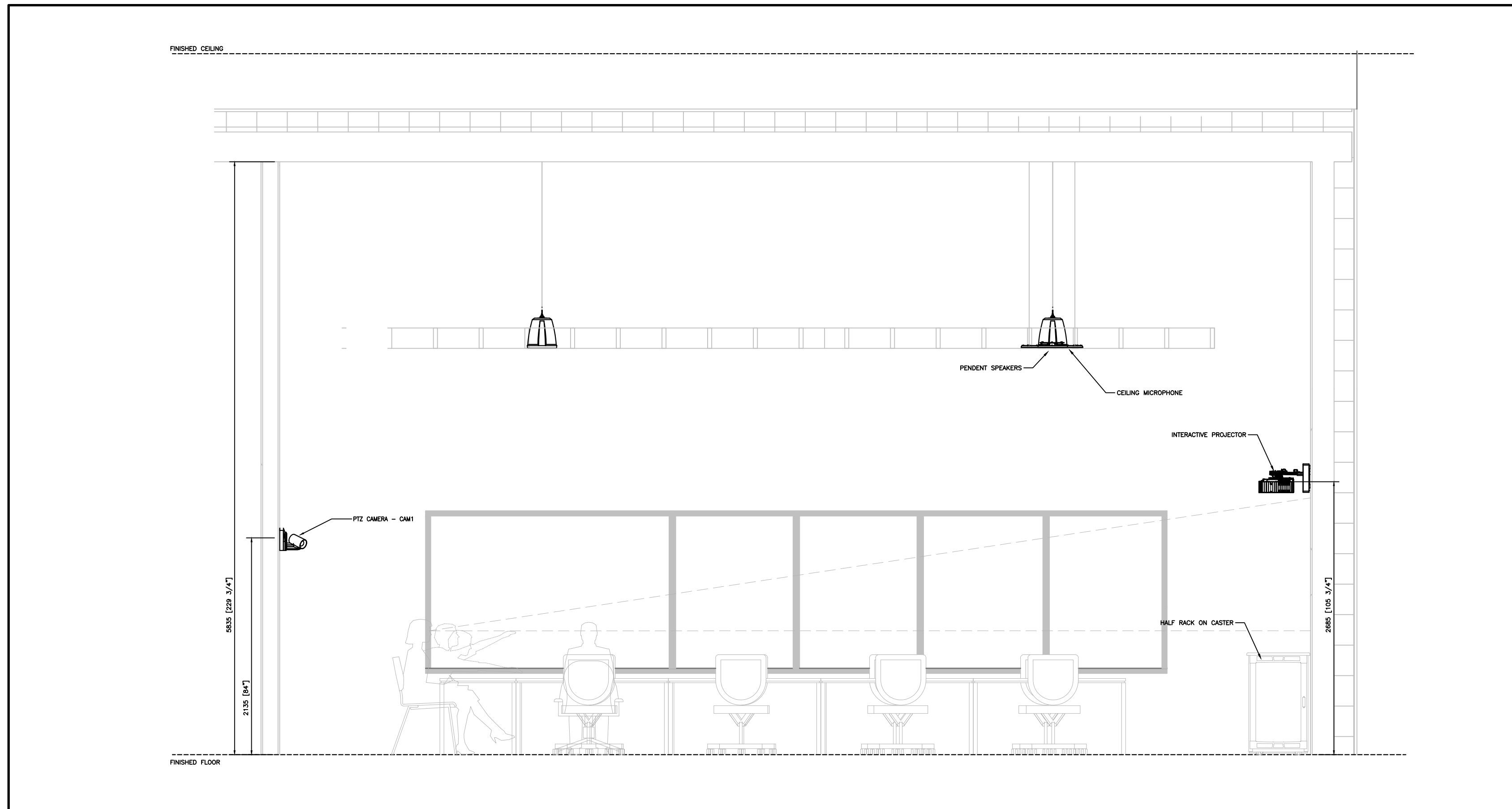
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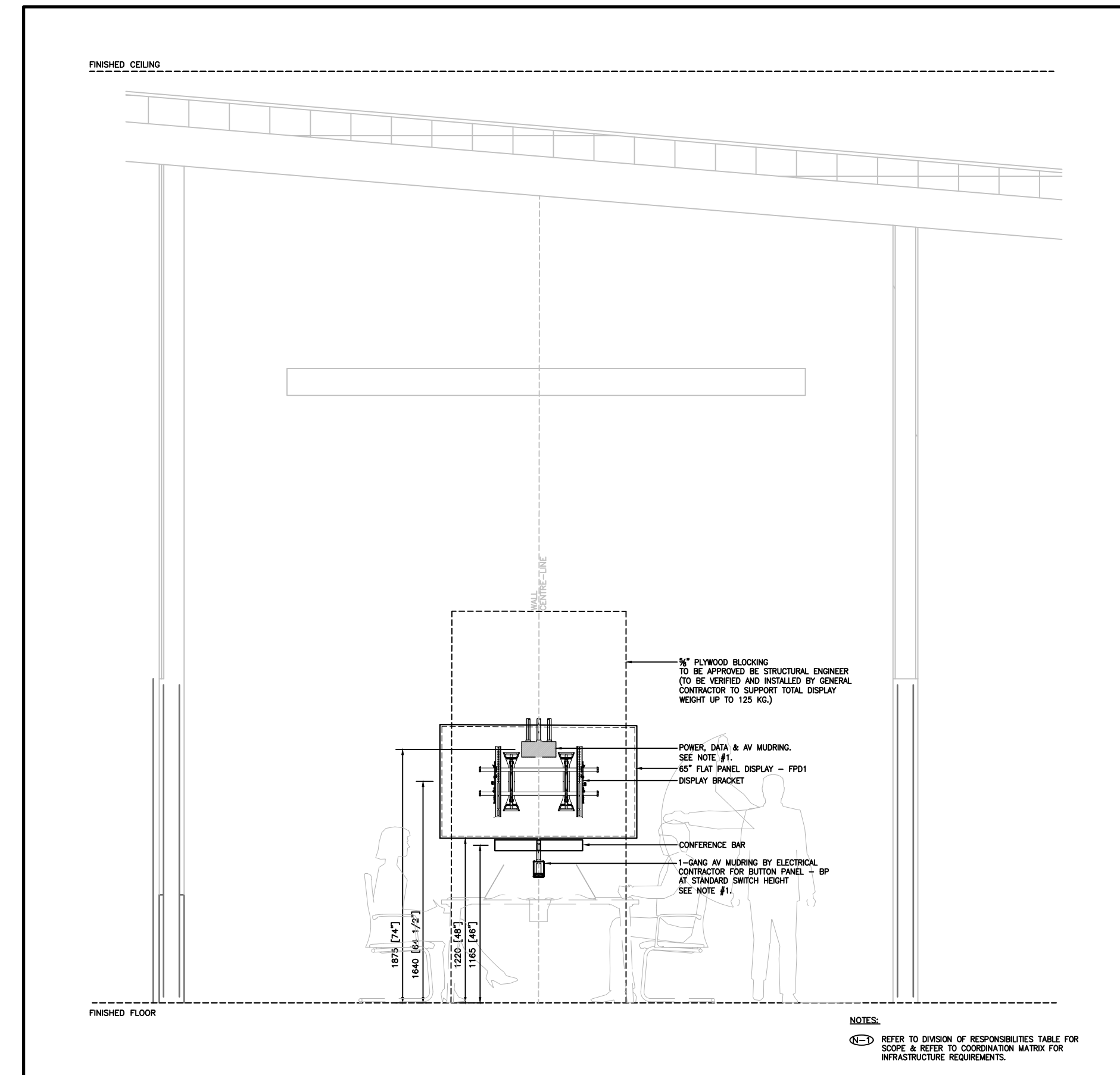
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SHEET NO:	AV101B

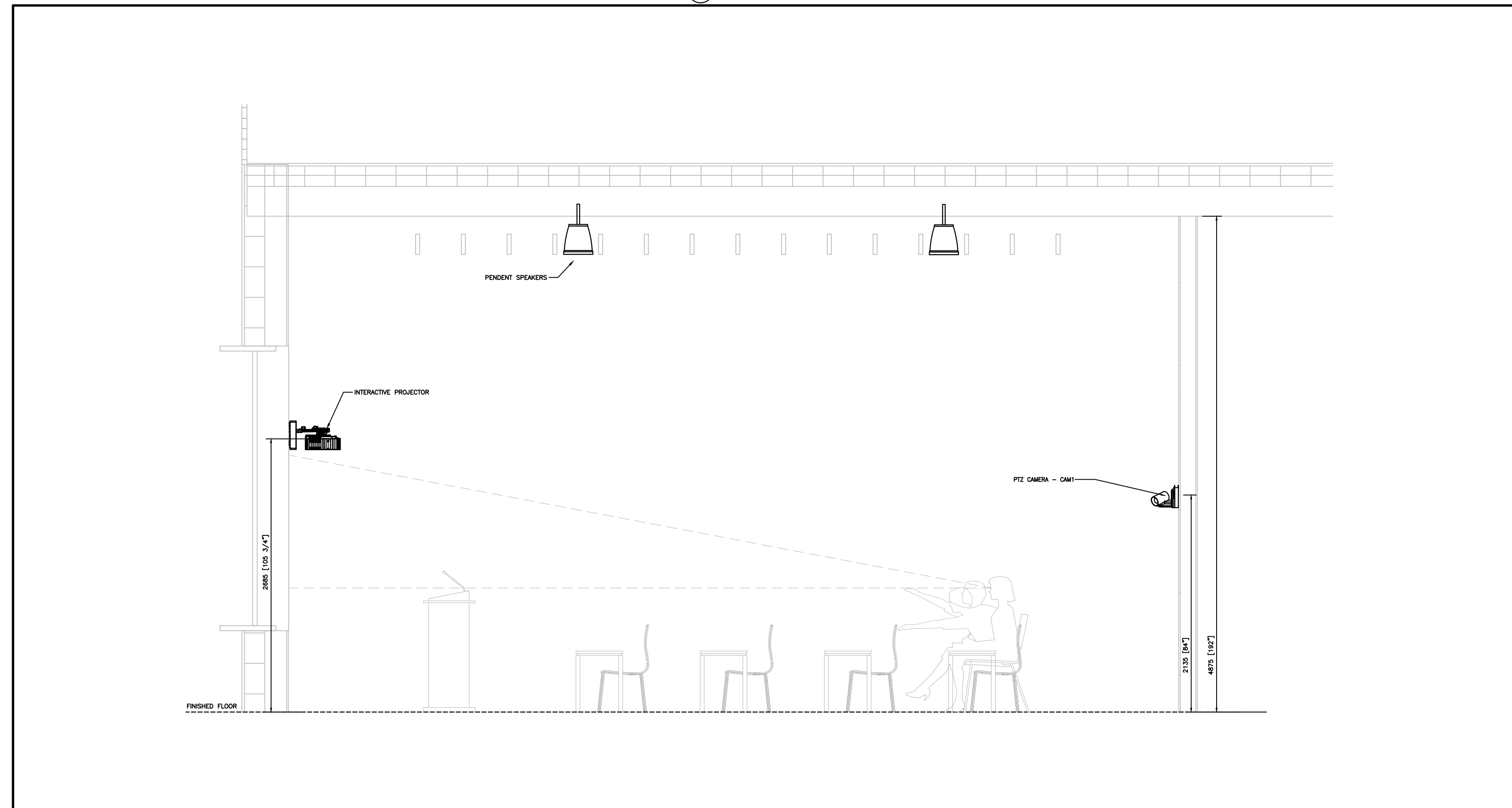




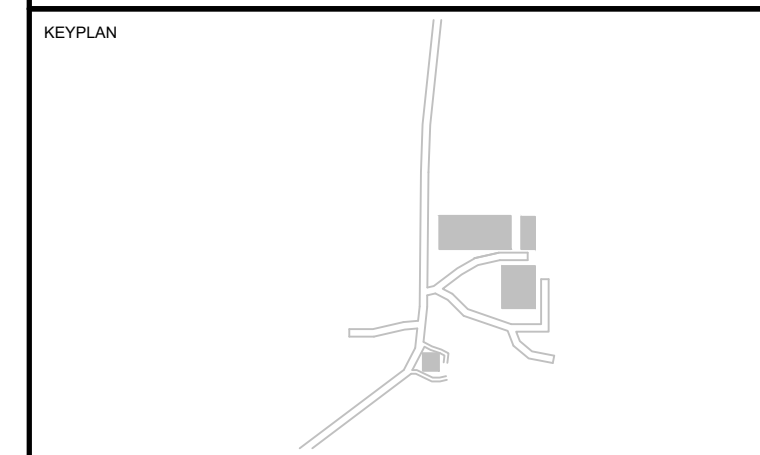
1 TYPE 1 - MULTIPURPOSE ROOM
AV DEVICE SIDE ELEVATION



1 TYPE 2 - AV GRAD & FLEX SPACE OFFICES
AV DEVICE ELEVATION



2 TYPE 3 - FORENSIC TEACHING LAB
AV DEVICE SIDE ELEVATION



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CONDUIT SIZES	
IMPERIAL	METRIC
1/2"	16MM
3/4"	21MM
1"	1"
1-1/4"	35MM
1-1/2"	1.5"
2"	53MM
2-1/2"	65MM
3"	78MM
4"	103MM

4 CONDUIT SIZE CONVERSIONS

UNLESS NOTED ON RISER, PROVIDE THE FOLLOWING CONDUIT SIZES AND QUANTITY:

- ALL BUTTON PANEL CONDUITS ARE (1) 1" [1"]
- ALL WALL PLATE CONDUITS ARE MINIMUM (1) 1.5" [41mm]
- ALL SPEAKER CONDUITS ARE MINIMUM (1) 1" [1"]
- ALL ANTENNA CONDUITS ARE MINIMUM (1) 1.5" [41mm]
- ALL FLOORBOX CONDUITS ARE MINIMUM (2) 1.5" [41mm]
- ALL DISPLAY CONDUITS ARE MINIMUM (1) 1" [1"]
- ALL CONTROL PANELS ARE MINIMUM (1) 1" [1"]
- ALL PROJECTORS ARE MINIMUM (1) 1" [1"]
- ALL PROJECTION LIFTS ARE MINIMUM (1) 1.25" [35mm]
- ALL PROJECTION SCREENS ARE MINIMUM (1) 0.75" [21mm]

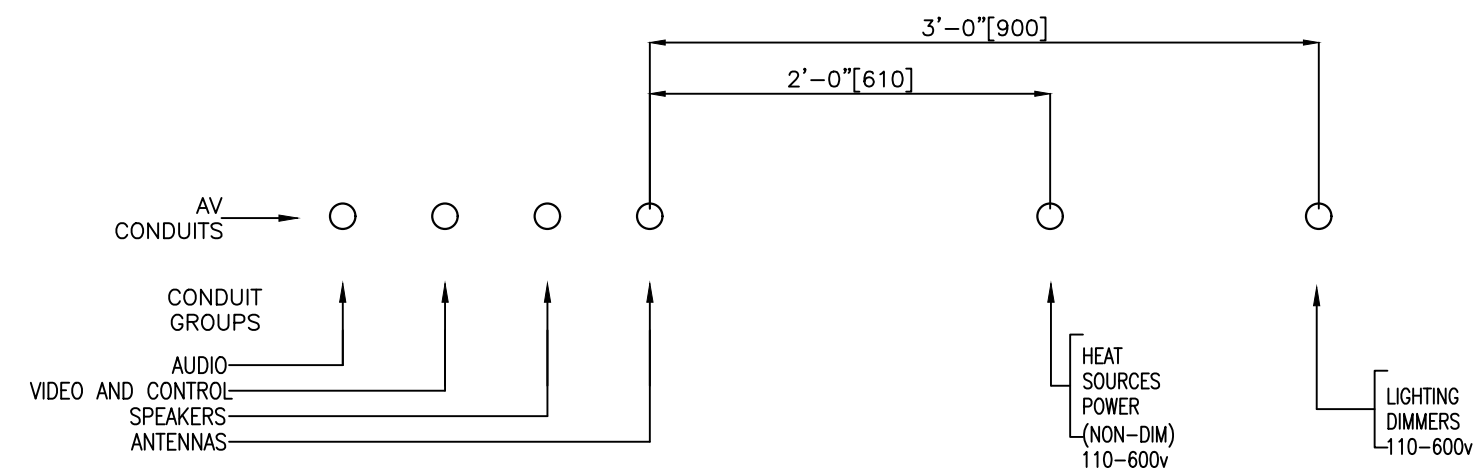
5 CONDUIT SIZES

AUDIO-VISUAL CONDUIT SEPARATION CRITERIA

1. DO NOT RUN AV CONDUITS PARALLEL TO AC AND LIGHTING CONDUITS. WHERE RUNS ARE PARALLEL, ADHERE TO THE SEPARATION SHOWN BELOW:

LENGTH OF RUN PARALLEL TO HIGH VOLTAGE CONDUITS meters (feet)	MIN. SEPARATION OF AV CONDUITS FROM AC CONDUITS mm (inch)	MIN. SEPARATION OF AV CONDUITS FROM DIMMER CONDUITS mm (inch)
<= 1.8 (6)	150 (6)	228 (9)
1.8 (6) to 9.1 (30)	300 (12)	406 (16)
>= 9.1 (30)	600 (24)	812 (32)

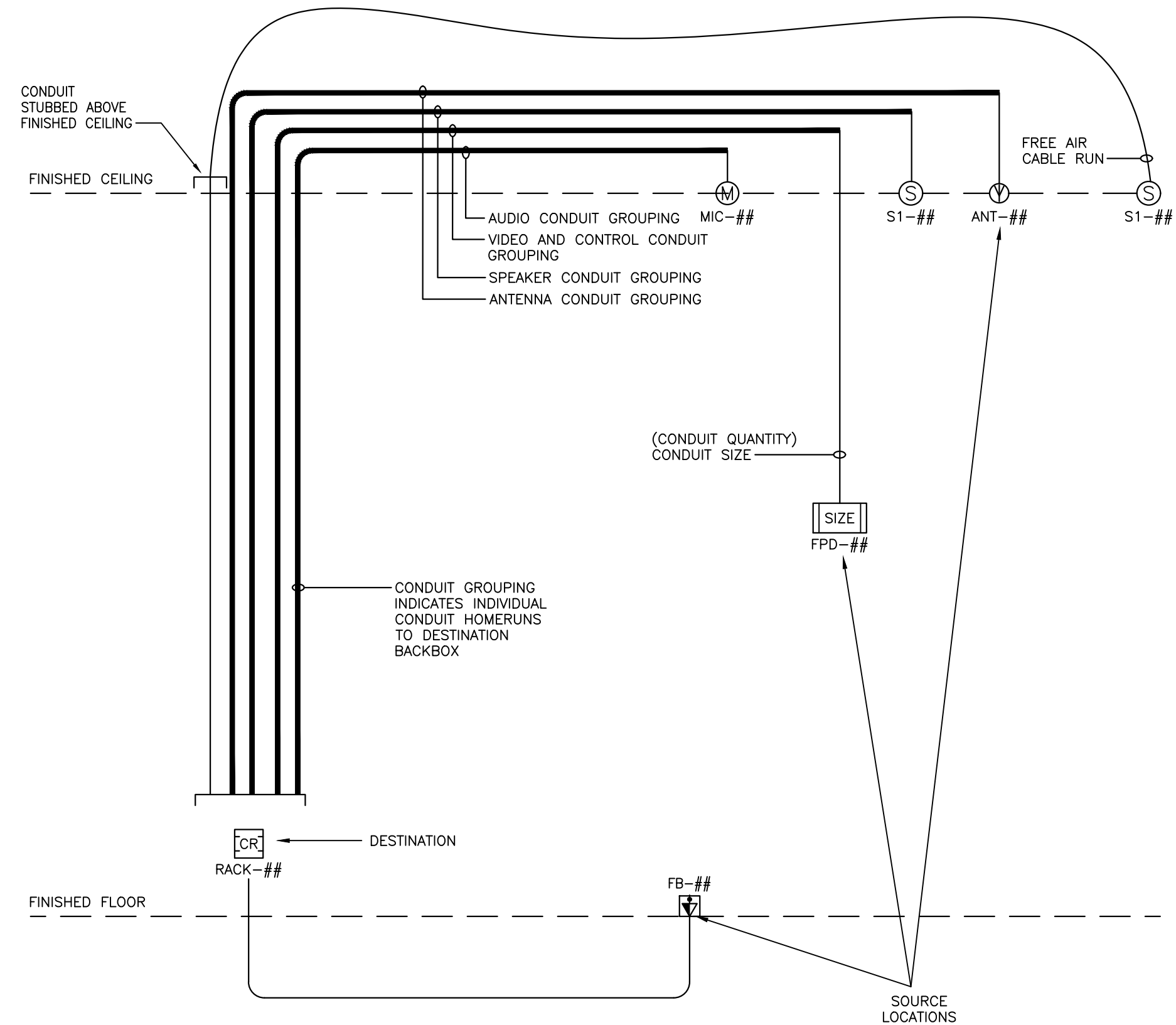
2. WHERE SYSTEM CONDUITS ARE RUN TOGETHER AND PARALLEL THEY SHALL BE IN THE FOLLOWING ORDERED SEQUENCE, STARTING AT THE SIDE FURTHEST FROM AC CONDUITS:



- 3. WHERE AUDIO-VISUAL CONDUITS CROSS HIGH VOLTAGE CONDUITS, CROSSINGS SHOULD BE AS CLOSE TO 90° AS POSSIBLE.
- 4. AV CONDUITS CONTAINING MICROPHONE CABLE SHOULD BE RUN AS FAR AS POSSIBLE FROM HIGH VOLTAGE CONDUITS. WHEN MULTIPLE AV CONDUITS ARE PROVIDED, ENSURE CONDUIT DESIGNATED FOR MICROPHONE CABLE IS FURTHEST AWAY FROM HIGH VOLTAGE CONDUIT.
- 5. NOTIFY AV CONSULTANT IF AV CONDUITS ARE TO BE RUN AT A DISTANCE CLOSER THAN RECOMMENDED SEPARATIONS.
- 6. ALL DIMENSIONS ARE MINIMUM VALUES.
- 7. FOR RUNS OF LENGTH GREATER THAN 75', DOUBLE ALL VALUES.
- 8. IF NOT PHYSICALLY POSSIBLE TO PROVIDE THE SEPARATION SPECIFIED FOR PARALLEL RUNS FOR DISTANCES OVER 75' WRAP THE EXTERIOR OF THE SIGNAL CONDUIT IN 1/32" THICK LEAD SHEET.

2 AUDIO-VISUAL CONDUIT SEPARATION CRITERIA SCALE: NTS

Cable pathway shall not exceed 300 ft. Pathways that exceed 300 ft must be coordinated with the Systems Designer and AV Contractor.



3 RISER DIAGRAM DEFINITION

GENERAL

- 1. SUPPLY AND INSTALL NETWORKS OF CONDUITS (INCLUDING PULLBOXES AND JUNCTION BOXES) AND BACKBOXES, READY FOR PULLING OF WIRE TO CAPTURE THE REQUIREMENTS SHOWN ON AV DRAWINGS.
- 2. THE DESCRIPTION OF CONDUIT SYSTEMS AS SHOWN IN AV SCHEDULES AND RISERS IS SCHEMATIC ONLY AND IS INTENDED TO CONVEY THE REQUIREMENTS OF THE AV CONDUIT SYSTEM SUCH THAT THE AV SYSTEMS WILL FUNCTION CORRECTLY.

BACKBOXES

- 1. THE TERM "BACKBOX" INCLUDES TERMINATION BOXES MOUNTED TO WALLS, CEILINGS AND IN FLOORS. ALL BACKBOXES TO BE SUPPLIED WITH UTILITY COVERS, FASTENED IN PLACE.
- 2. THE DRAWINGS SHOW APPROXIMATELY WHERE BACKBOXES ARE TO BE LOCATED. FOR EXACT LOCATIONS, SEE ARCHITECTURAL DRAWINGS OR OBTAIN DIRECTION FROM THE ARCHITECT. THE LOCATIONS OF SOME PULL-BOXES AND JUNCTION BOXES ARE INDICATED FOR REFERENCE. THEIR EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD, SUBJECT TO THE REQUIREMENTS SHOWN HEREIN AND IN THE DRAWINGS.
- 3. PROVIDED THAT THE STATED REQUIREMENTS ARE MET, THE ELECTRICAL CONTRACTOR MAY USE ITS DISCRETION TO ADJUST THE DESIGN OF THE CONDUIT NETWORK TO CONFORM TO SITE CONDITIONS AND REALIZE ECONOMIES IN MATERIALS AND/OR PHYSICAL SPACE. EXAMPLES OF SUCH CONDITIONS ARE AS FOLLOWS:
 - ROUTING OF CONDUIT FROM POINT TO POINT MAY BE CHANGED TO RUN VIA AVAILABLE BUILDING LINES AND ACCESSIBLE AREA
 - WITH SHARE GROUPS, MANY SMALLER CONDUITS MAY BE COMBINED INTO FEWER LARGER CONDUITS THAT THE STATED FILL RATIO IS OBSERVED AND NET CAPACITY IS NOT REDUCED.

NOMENCLATURE

- 1. CONSULT AV DRAWINGS FOR DETAILS OF BACKBOX INSTALLATION REQUIREMENTS (SIZE, MOUNTING HEIGHT, ETC.).
- 2. EACH BACKBOX IS IDENTIFIED BY SYSTEM CODE ACCORDING TO THE AV SYSTEM(S) CABLES THAT WILL BE TERMINATED THERE.

SIZE

- 1. UNLESS NOTED OTHERWISE, SIZE CONDUIT ACCORDING TO REQUIREMENTS OF WIRES TO BE CONTAINED THEREIN. THE QUANTITY AND TYPES OF CABLES SHALL BE PROVIDED BY THE AV CONTRACTOR.
- 2. THE FILL RATIO SHALL NOT EXCEED 40%.

MATERIALS

- 1. ALL BACKBOXES TO BE MANUFACTURED OF STEEL.
- 2. ALL BACKBOXES TO BE 75MM (3") DEEP OR GREATER, EXCEPT CEILING LOUDSPEAKER BACKBOXES, WHICH ARE SPECIFIED SEPARATELY.
- 3. ALL SUSPENDED BACKBOXES SHALL INCLUDE AT LEAST ONE REDUNDANT CHAIN TO BE FASTENED TO THE CEILING SLAB OR OTHER STRUCTURAL MEMBER FOR SEISMIC AND FIRE SAFELY PURPOSES. TENSION RATING OF CHAIN AND FASTENERS TO MEET CODE REQUIREMENTS.
- 4. WHERE NOTED ON DRAWINGS, USE RIGID CONDUIT UP TO 2400MM (8'-0") ABOVE FINISHED FLOOR WHERE EXPOSED INDOORS AND SUBJECT TO DAMAGE. USE EPOXY COATED RIGID CONDUIT WHERE EXPOSED IN CORROSIVE AREAS INDOORS.
- 5. UNLESS NOTED OTHERWISE, PVC CONDUIT, BUSHINGS AND CONNECTIONS ARE NOT ACCEPTABLE.
- 6. ALL EXPOSED SURFACE-MOUNTED GANG BACKBOXES (i.e. MOUNTED TO EXPOSED CONCRETE COLUMNS OR WALLS) SHALL BE SIMILAR TO WIREMOLD V5744-SERIES, ALLOWING FOR ALL COVER PLATES TO NOT OVERHANG BACKBOX. STANDARD METAL ELECTRICAL BACKBOXES ARE NOT ACCEPTABLE.

INSTALLATION

- 1. COORDINATE BACKBOX LOCATIONS AS REQUIRED WITH ELECTRICAL POWER RECEPTACLES AND LIGHT SWITCHES TO PRESENT A UNIFORM APPEARANCE TO THE SATISFACTION OF THE ARCHITECT.
- 3. MOUNT SURFACE OR RECESSED ACCORDING TO LOCAL FINISH REQUIREMENTS, AT THE DISCRETION OF THE ARCHITECT.
- 4. MARK BACKBOXES IN THE FIELD CONSISTENT WITH THE DRAWINGS FOR IDENTIFICATION PURPOSES. USE PERMANENT MARKER TO MARK ID AND SYSTEM CODE ON THE FACING SURFACE OF THE BACKBOX.
- 5. COORDINATE CEILING BACKBOXES WITH OTHER SERVICES IN CEILING SUCH THAT BACKBOXES ARE CLEAR OF INTERFERENCES AND DIRECTLY ACCESSIBLE FROM BELOW.
- 6. IN OPEN CEILINGS, WHERE CHAIN OR STRUT IS THE PRIMARY HANGING SUPPORT, ENSURE THAT LOUDSPEAKER ARE SUSPENDED PLUMB AND LEVEL AT CONSISTENT HEIGHT ABOVE FINISHED FLOOR.
- 7. WHERE LOUDSPEAKER BACKBOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULLSTRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.
- 8. ALL JUNCTION BOXES MUST BE ACCESSIBLE AFTER THE INSTALLATION OF WALL FINISHES AND OTHER PERMANENT BUILDING FEATURES

CONDUIT ORGANIZATION

- 1. UNLESS NOTED OTHERWISE, PROVIDE A SEPARATE NETWORK CONNECTING ALL BACKBOXES OF EACH SYSTEM, AS IDENTIFIED ON THE DRAWINGS.
- 2. UNLESS NOTED OTHERWISE, PROVIDE CONDUIT TO JOIN EVERY BACKBOX TO THE NETWORK(S), WHETHER OR NOT THE CONDUIT IS SPECIFICALLY DESCRIBED HEREIN.

BONDING

- 1. ALL CONDUIT, PULL BOXES AND JUNCTION BOXES TO BE CONTINUOUSLY GROUNDED BY MEANS OF BONDING STRAPS LINKING EACH ELEMENT.
- 2. LOW VOLTAGE CONDUITS SHALL BE MECHANICALLY AND ELECTRICALLY ISOLATED FROM SOUND SYSTEM EQUIPMENT RACKS. AT RACKS, USE ISOLATED CONNECTION, SUCH AS PVC BUSHING, SUCH THAT CONDUIT REMAINS ISOLATED FROM THE RACK. CONNECT LOW VOLTAGE CONDUITS WITH HEAVY INSULATED GROUND WIRE TO THE NEAREST GROUND OF A UTILITY PANEL.

PROXIMITIES AND ROUTING

- 1. AV CONDUITS AND AC CONDUITS RUN IN PARALLEL SHOULD BE SEPARATED BY A DISTANCE OF 24" FOR RUNS LESS THAN 75'. FOR PARALLEL RUNS GREATER THAN 75' DOUBLE ALL VALUES.
- 2. DO NOT RUN WIRING, BACKWAYS AND CONDUIT NEAR POWER TRANSFORMERS, LIGHTING DIMMERS, POWER CONTROL EQUIPMENT, HEAVY CURRENT SWITCHGEAR, FUSEBOARDS, FLUORESCENT BALLASTS, MOTORS, OR ANY OTHER EQUIPMENT WHICH RADIATES EM.
- 3. CROSS CONDUITS OF POWER SYSTEMS AT 90 DEGREES.
- 4. UNUSUALLY HEAVY CURRENT DEMANDS IN ADJACENT CONDUIT OR LONG PARALLEL RUNS MAY DICTATE GREATER SEPARATION TO AVOID INTERFERENCE IN THE SOUND AND VIDEO. IDENTIFY SUCH INSTANCES ON SITE AND CONSULT WITH ELECTRICAL CONSULTANT FOR RESOLUTION PRIOR TO INSTALLATION OF CONDUITS.
- 6. WHERE CONDUIT CROSSES ACOUSTICAL JOINTS, PROVIDE ISOLATION METHODS AS SHOWN IN ARCHITECTURAL DETAIL.
- 7. CONDUIT EXPANSION FITTINGS TO BE PROVIDED WHEN CROSSING BUILDING EXPANSION JOINTS. CROSSING TO BE DONE AT 90 DEGREES TO JOINT.
- 8. ALL WALL-MOUNTED PAGING LOUDSPEAKER AND ATTENUATOR BACKBOXES ARE TO BE SERVED BY CONDUIT ROUTED INTO CEILING SPACE ABOVE.

INSTALLATION

- 1. BEND RADIUS OF CONDUIT MUST BE NO LESS THAN 10 (TEN) TIMES THE CONDUIT DIAMETER. BEND CONDUIT WITHOUT HEATING, REPLACE CONDUIT IF CHINKED OR FLATTENED MORE THAN 1/10 OF THE ORIGINAL DIAMETER.
- 2. MINIMUM DISTANCE BETWEEN TWO PULL BOXES TO INCLUDE A MAXIMUM OF 2 (TWO) 90 DEGREE BENDS OR EQUIVALENT UP TO 180 DEGREES, OR 30M (100') OF CONDUIT, WHICHEVER IS LESS.
- 3. MARK ALL CONDUITS IN THE FIELD FOR IDENTIFICATION PURPOSES. FOR RISERS, SHOW SHARE GROUP LETTER AT EVERY JUNCTION BOX. FOR HORIZONTAL RUNS, SHOW DEVICE LOCATION ID AND SHARE GROUP LETTER AT EVERY JUNCTION BOX.

PULL STRINGS

- 1. FISH PULL-STRINGS THROUGH ALL NETWORKS. AT EACH END OF EACH PULL-STRING, LABEL STRING WITH ID OF OTHER END. SECURE BOTH ENDS OF STRING TO CONDUIT OUTSIDE BACKBOX TO PREVENT IT FROM RE-ENTERING CONDUIT.
- 2. WHERE LOUDSPEAKER BACK BOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULL STRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.
- 3. FASTEN UTILITY COVERS TO ALL BACKBOXES.

1 AV CONDUIT AND BACKBOX NETWORK SCALE: NTS



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CONSULTANT LOGO
Smith + Andersen
1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
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AV CONDUIT NOTES

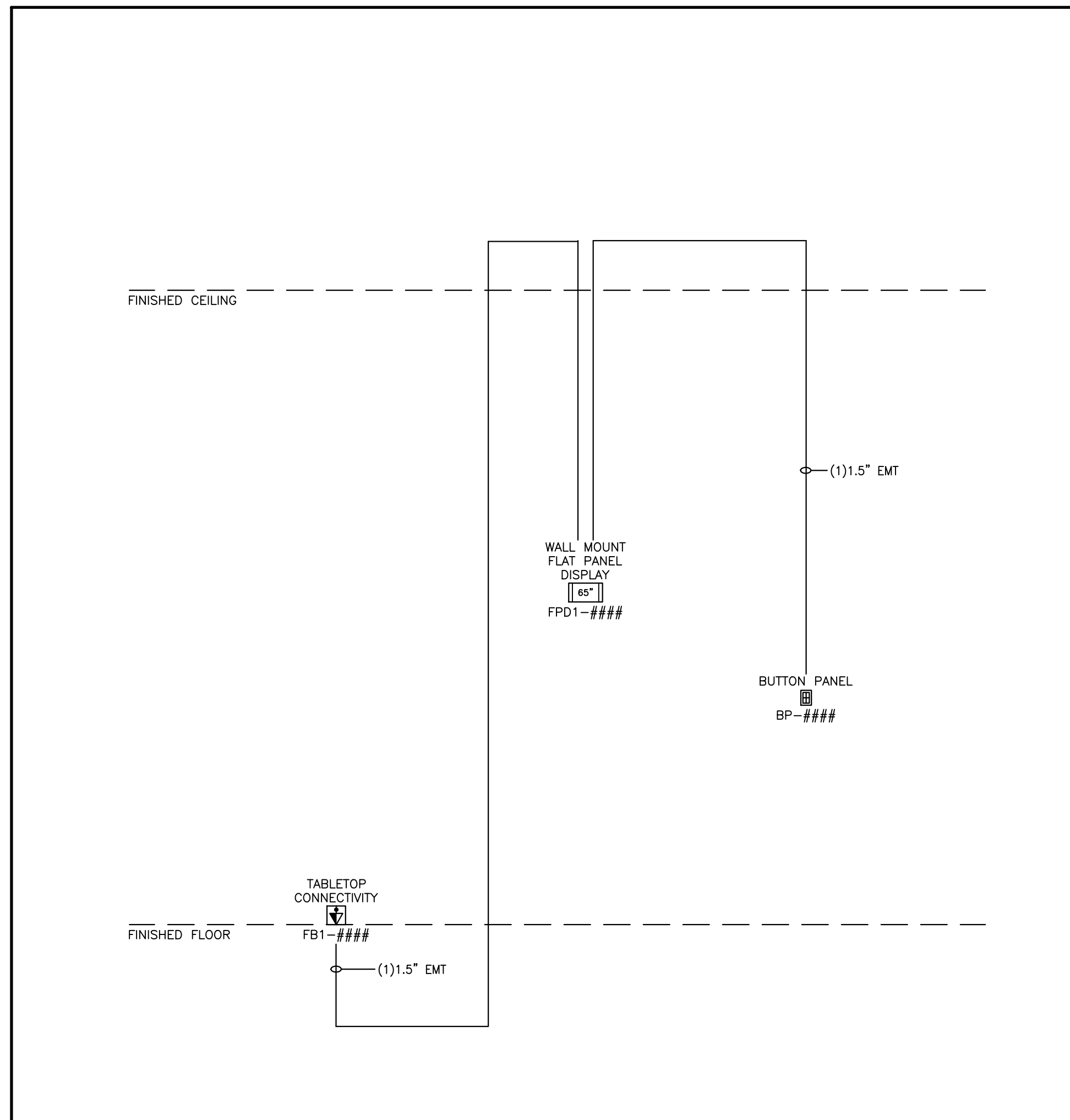
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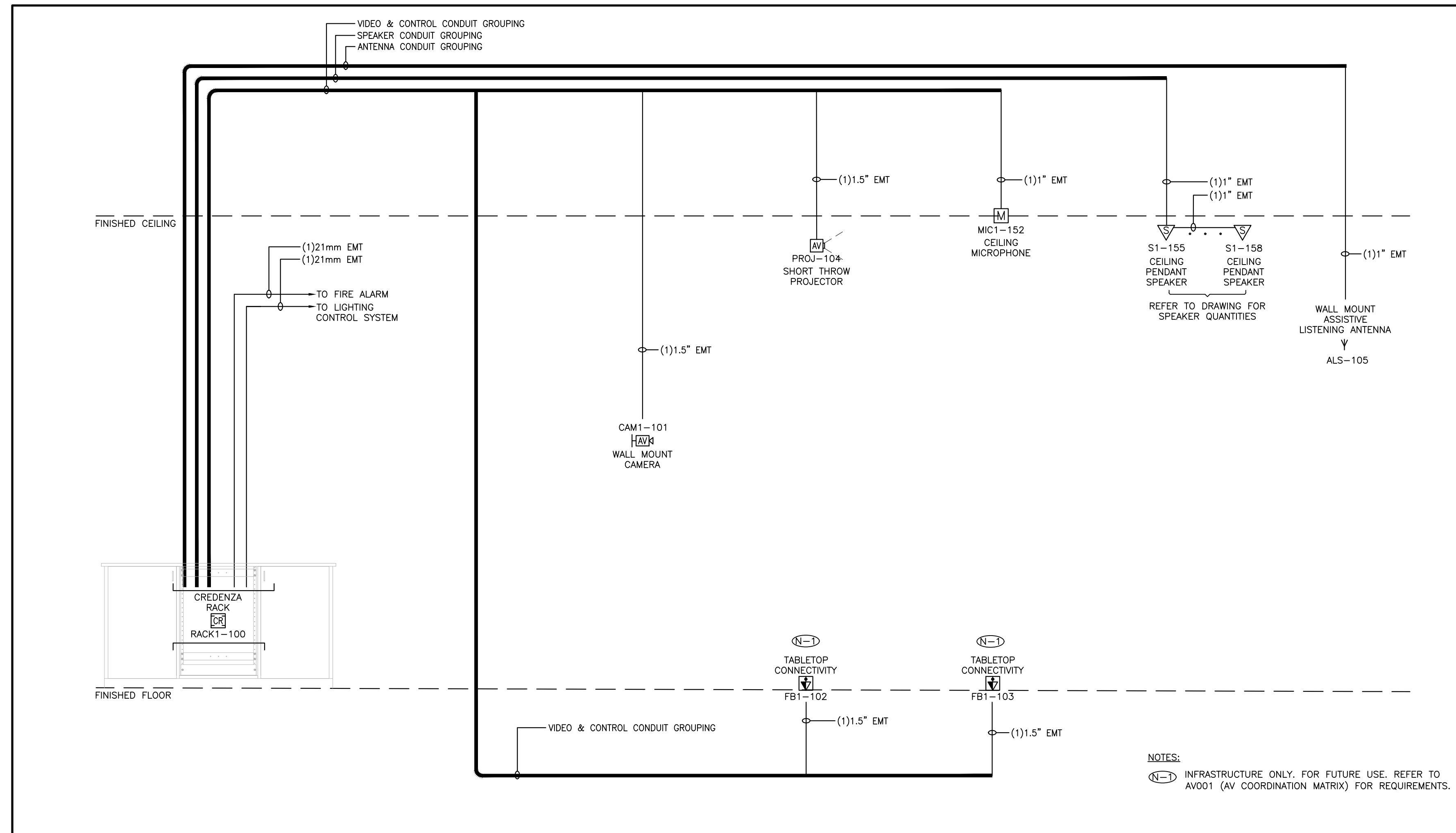
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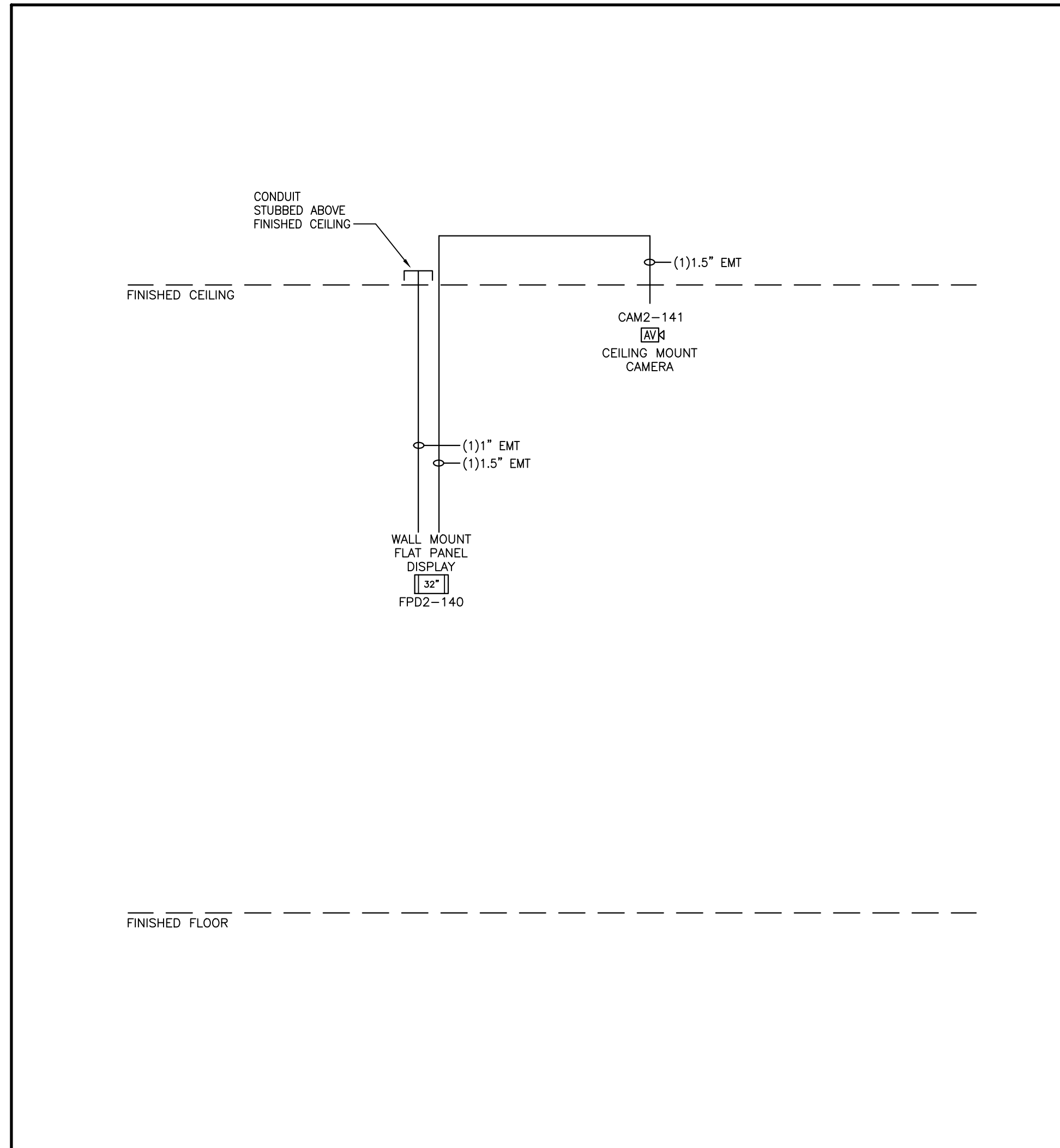
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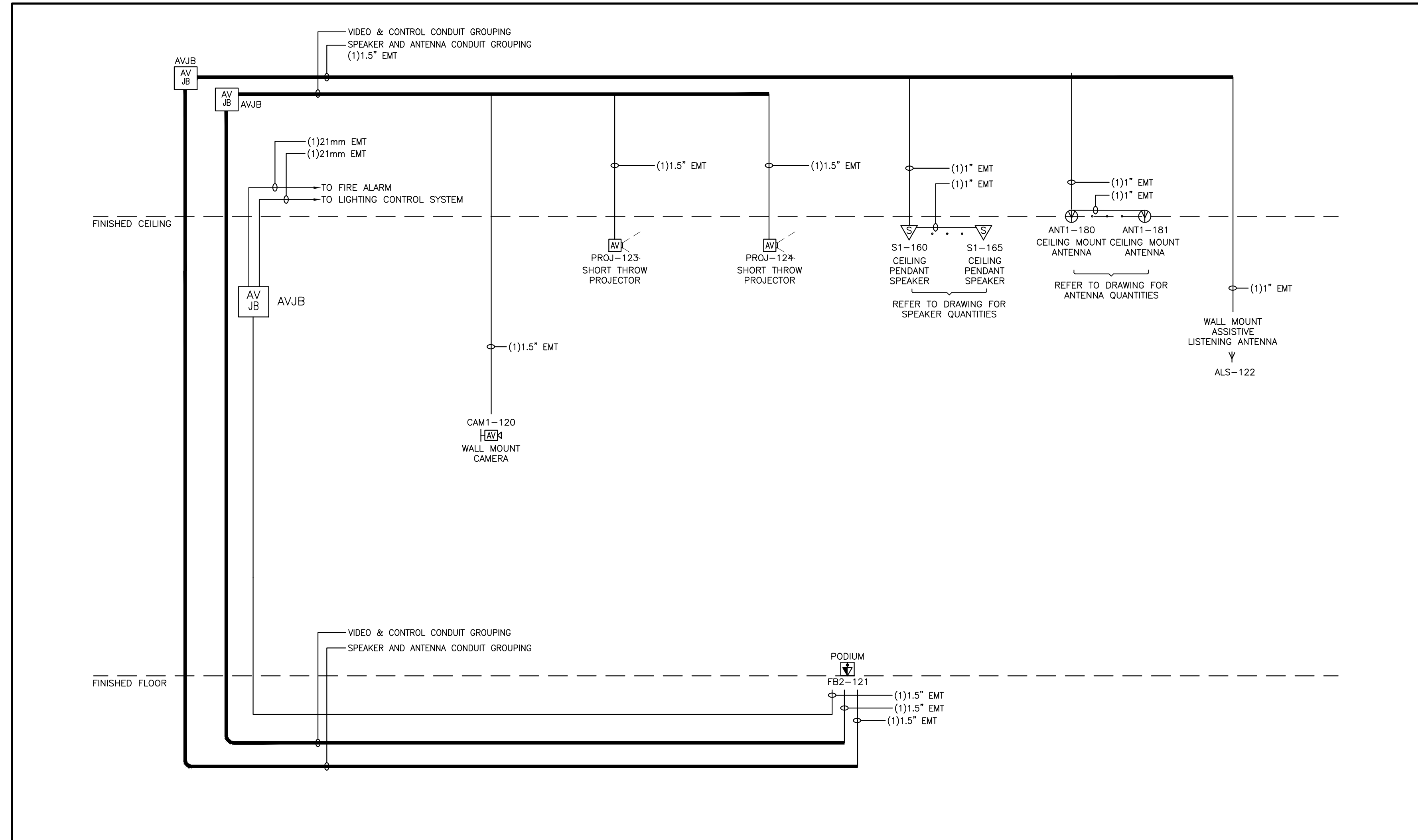
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AV301 TYPE 2 - AV GRAD & FLEX SPACE OFFICES
AV RISER DIAGRAM



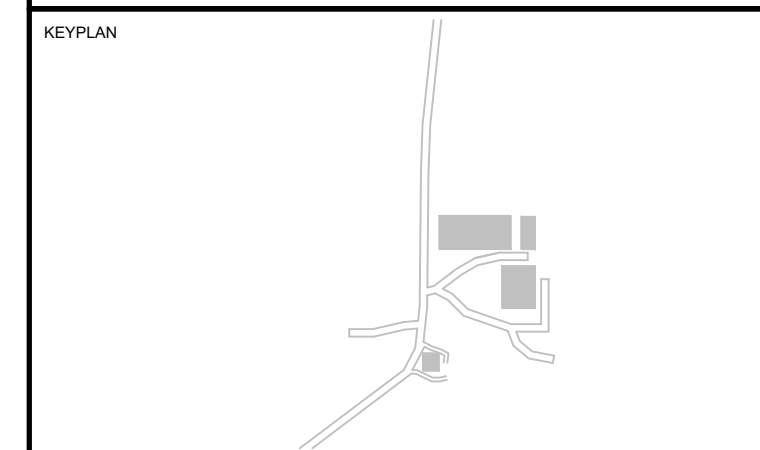
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AV301 TYPE 1 - MULTI-PURPOSE SPACE
AV RISER DIAGRAM



4
AV301 TYPE 4 - FORENSIC GARAGE
AV RISER DIAGRAM



2
AV301 TYPE 3 - FORENSIC TEACHING LAB
AV RISER DIAGRAM



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 PROJECT

TITLE
AV RISER DIAGRAMS

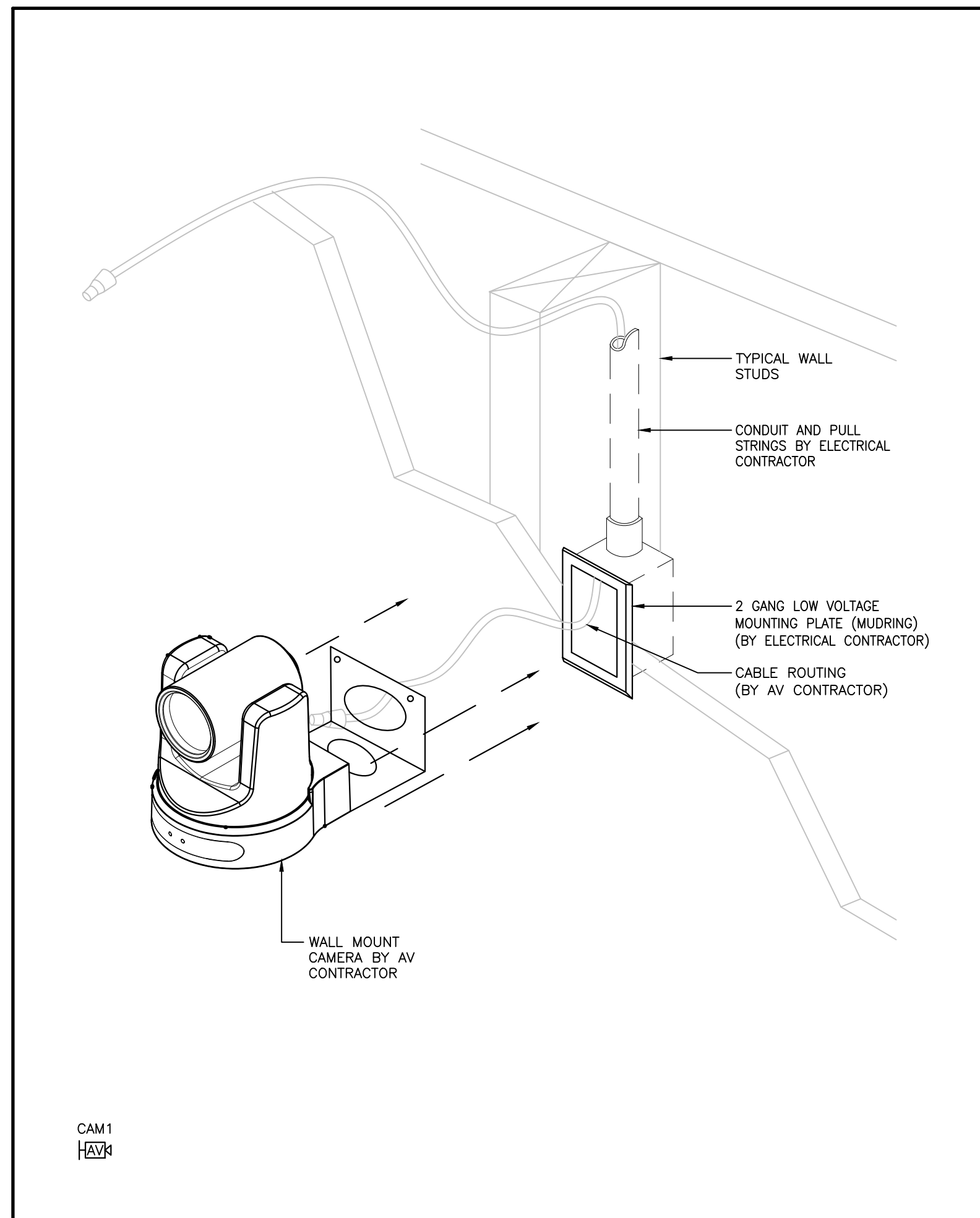
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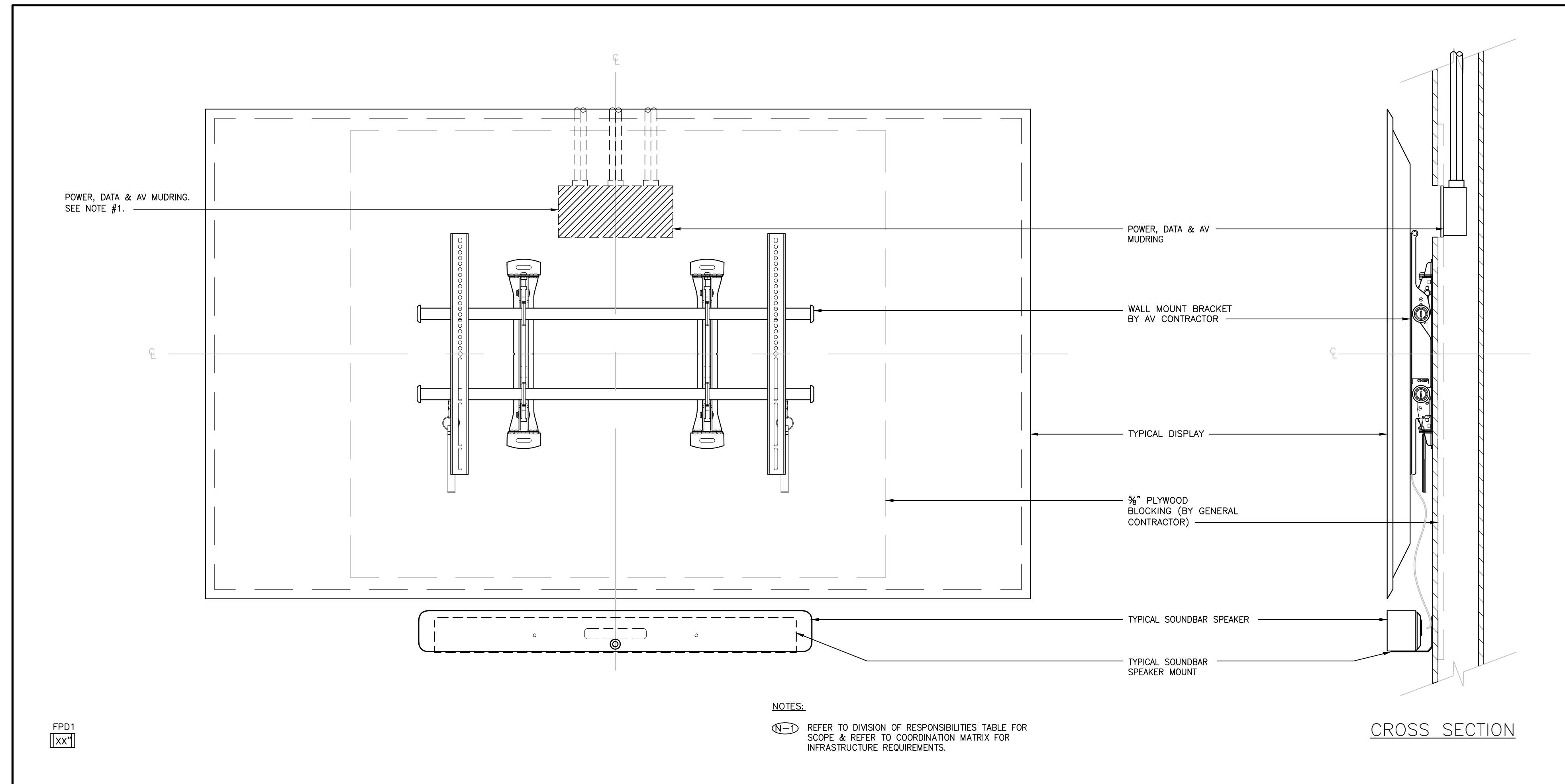
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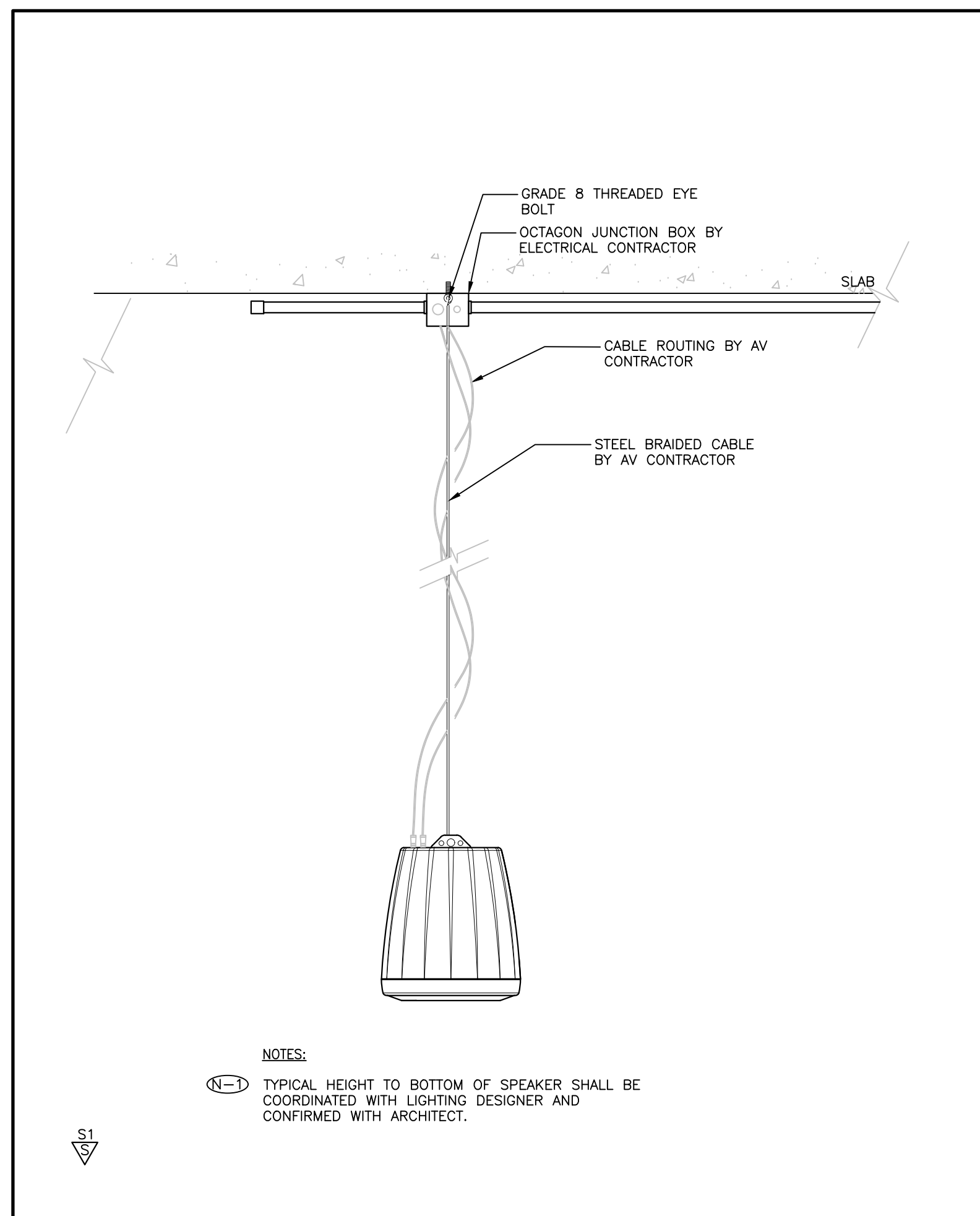
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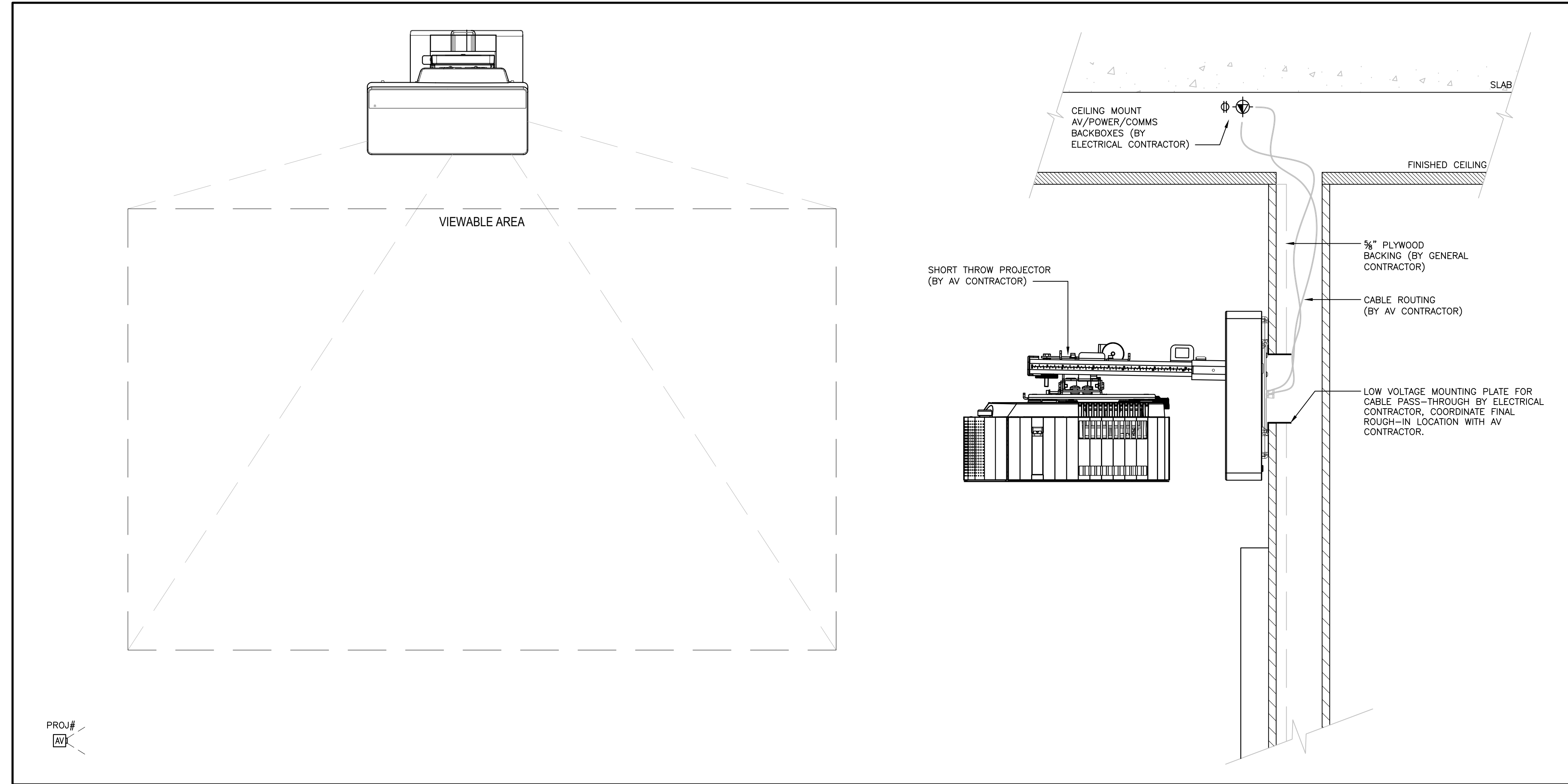
3 WALL MOUNT CAMERA
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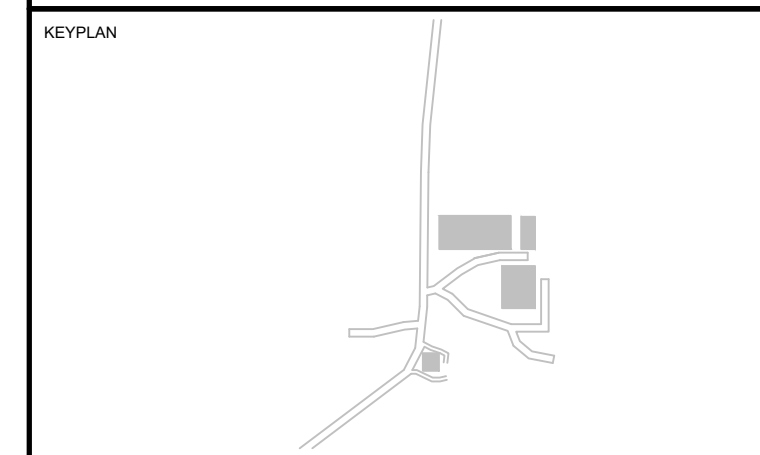
1 WALL MOUNT DISPLAY W/ SOUND BAR
SCALE: NTS



4 PENDANT SPEAKER
SCALE: NTS



2 SHORT THROW PROJECTOR
SCALE: NTS



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CONSULTANT LOGO
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1-416-487-8151 smithandandersen.com

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PROJECT

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AV DETAILS

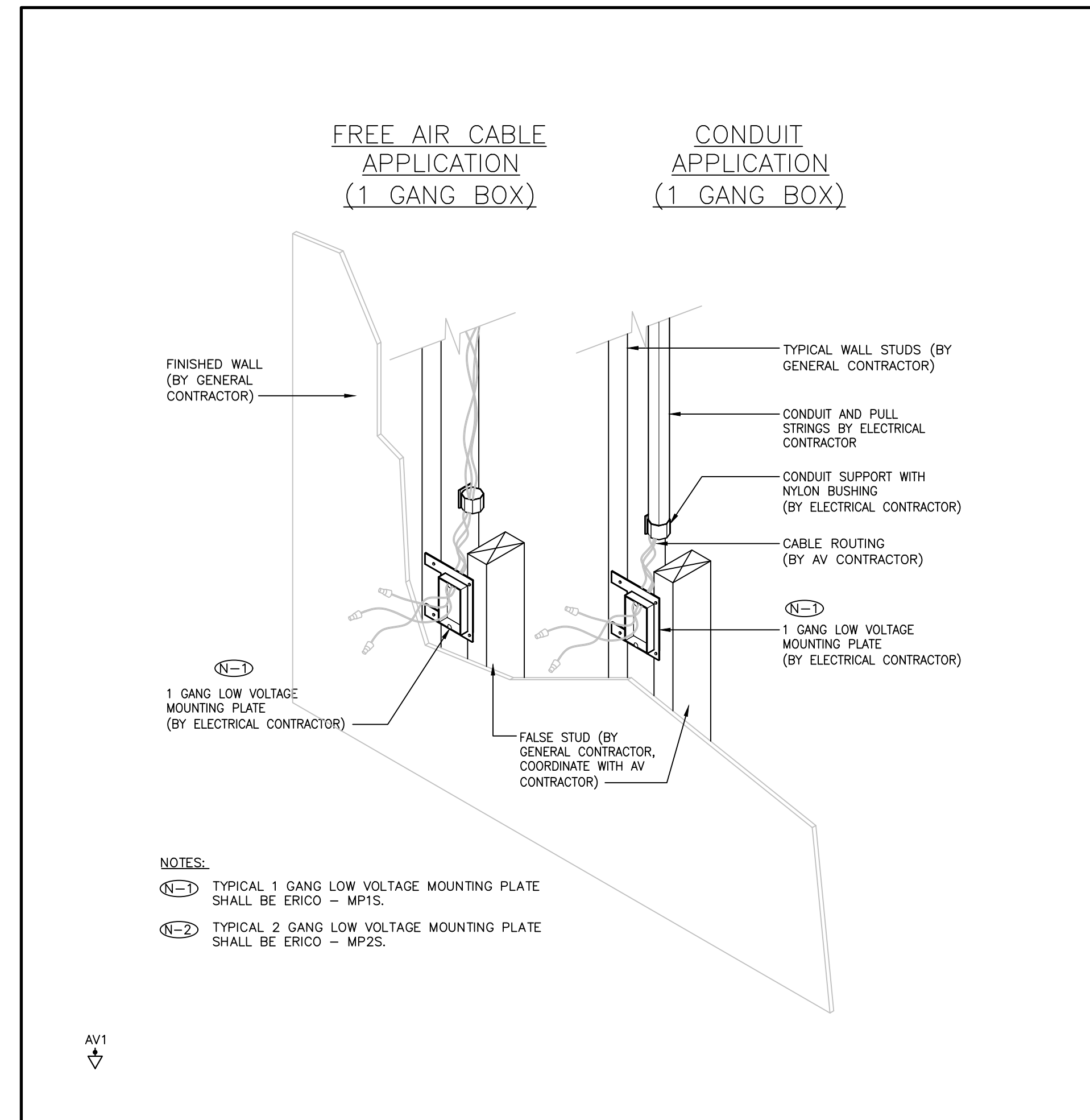
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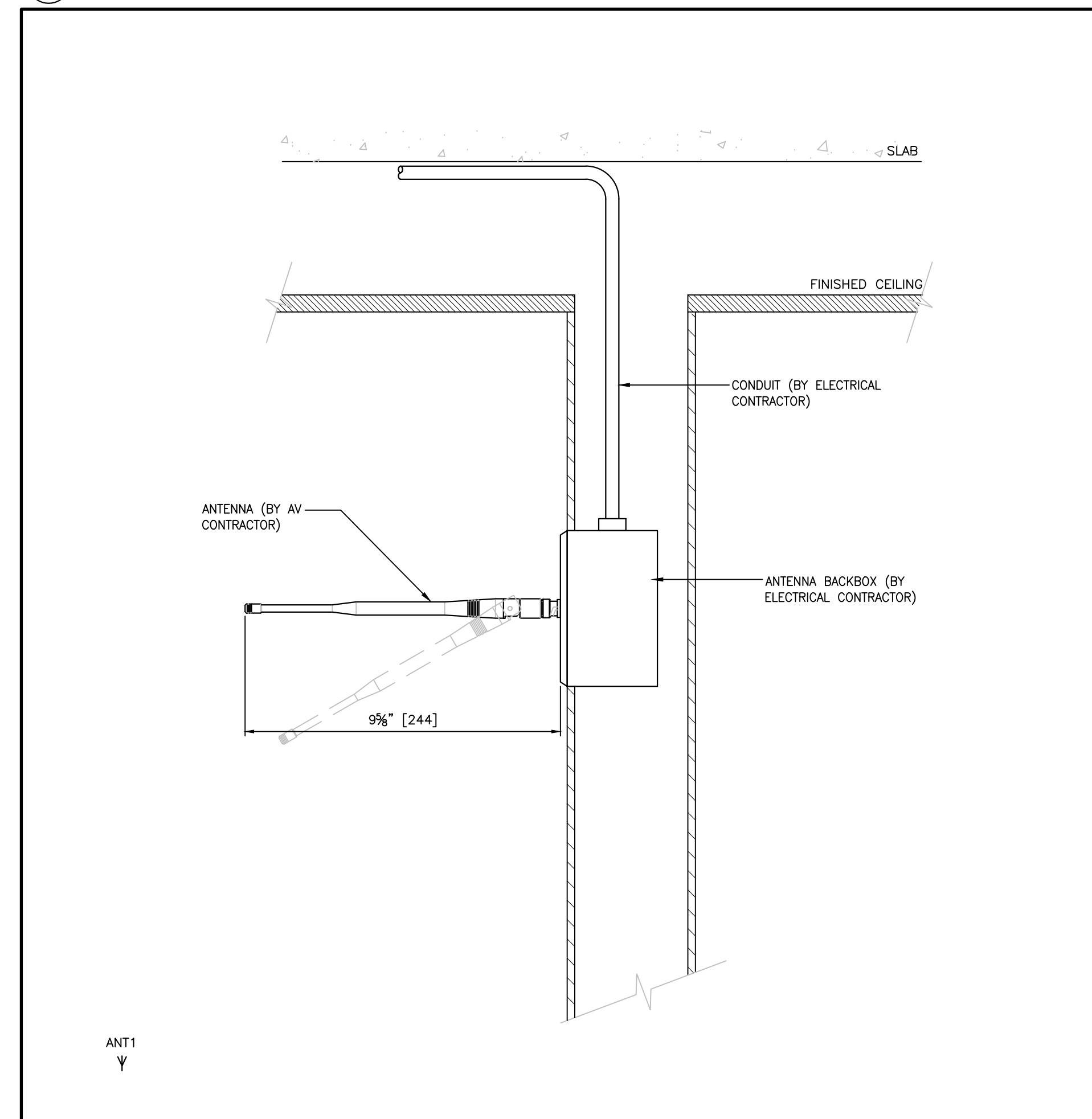
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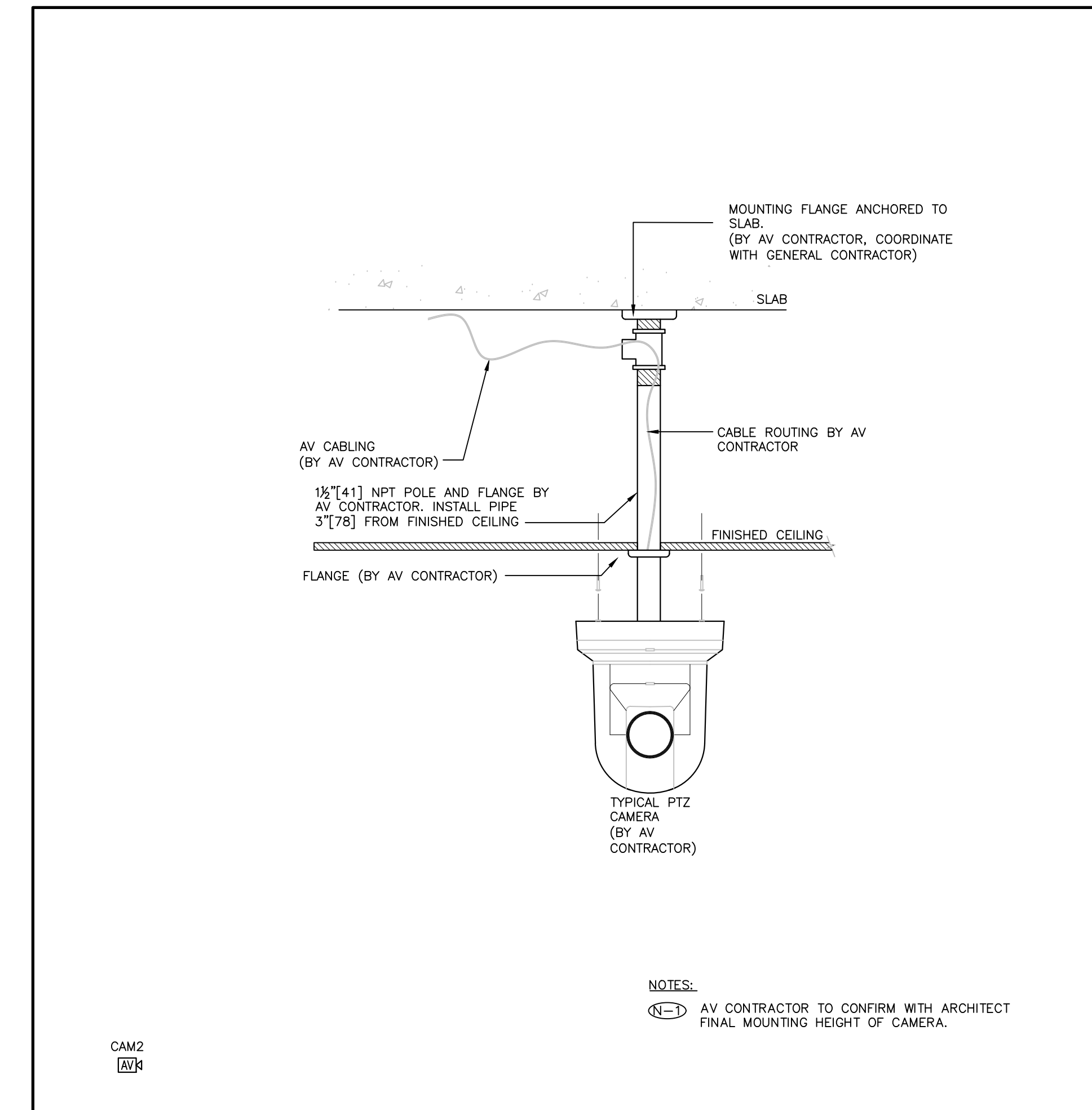
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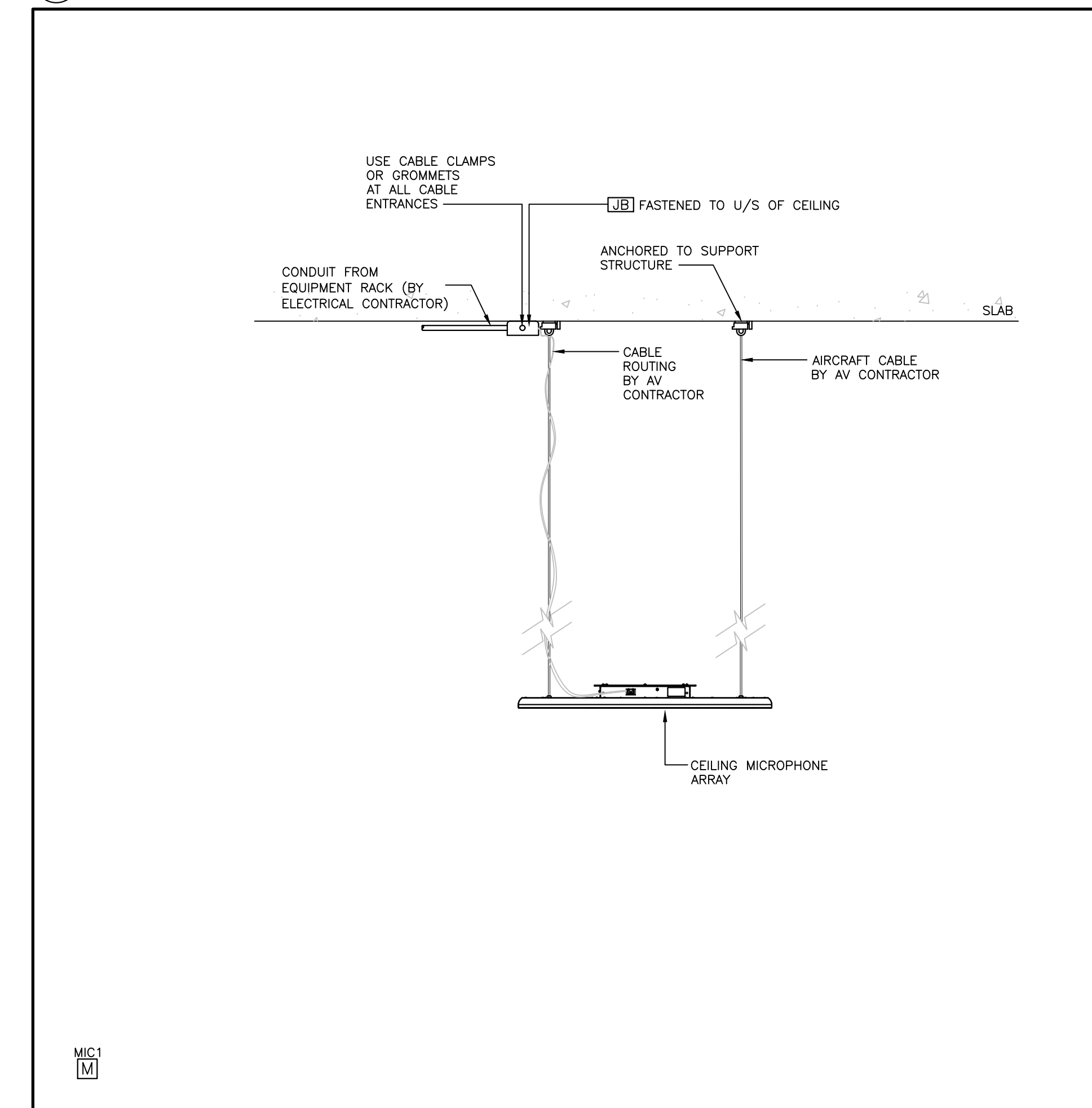
3 LOW VOLTAGE MOUNTING PLATE
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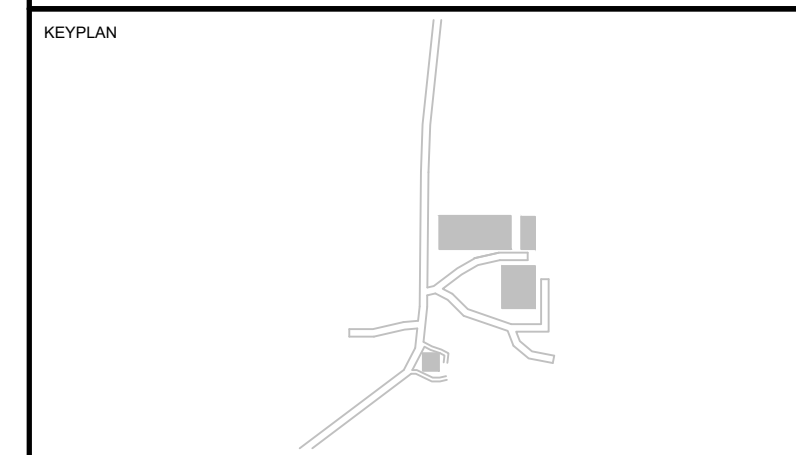
4 WALL MOUNTED ANTENNA
SCALE: NTS



1 CEILING MOUNT CAMERA
SCALE: NTS



2 TYPICAL CEILING MICROPHONE ARRAY WITH AIRCRAFT CABLES
SCALE: NTS



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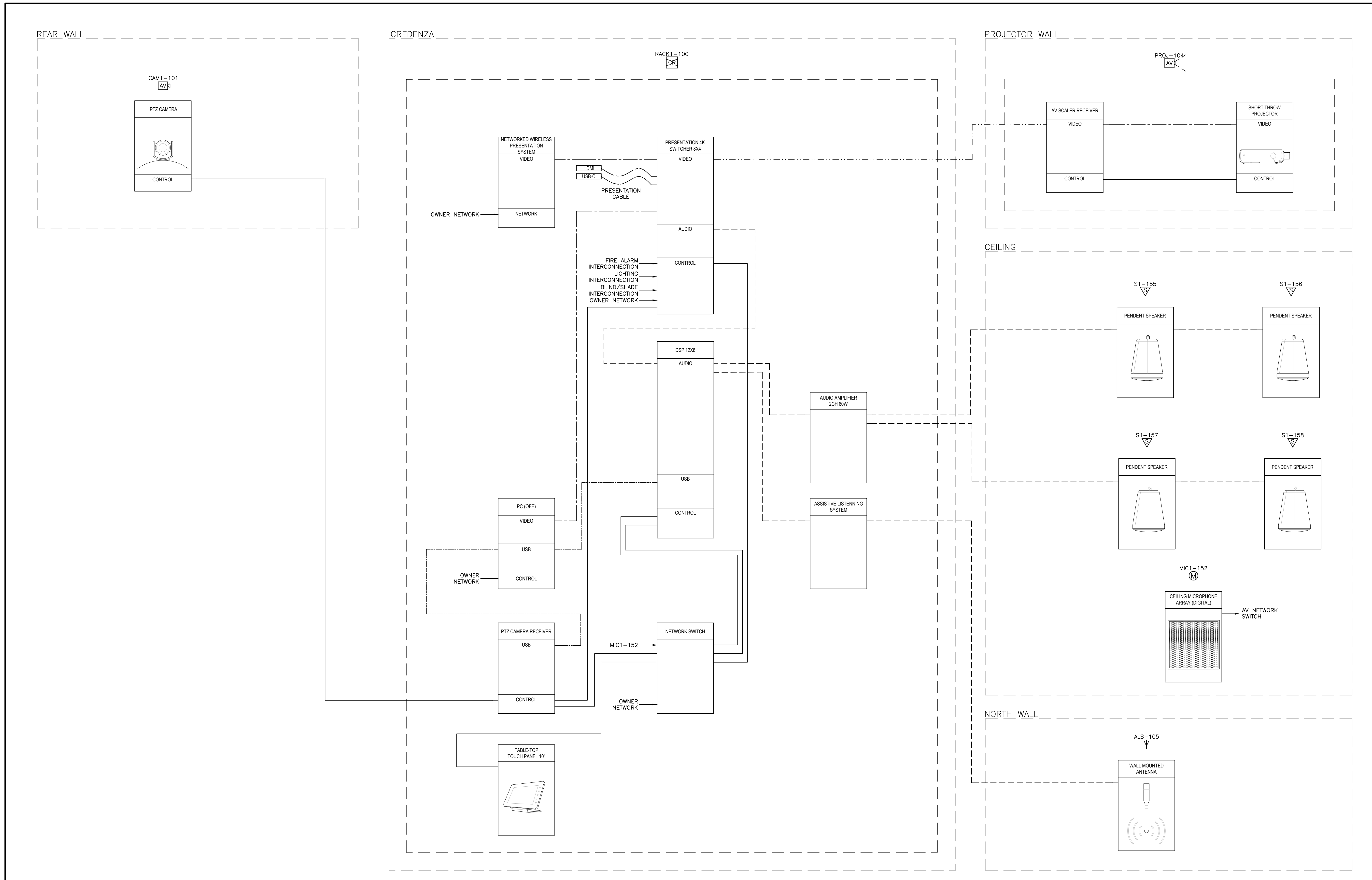
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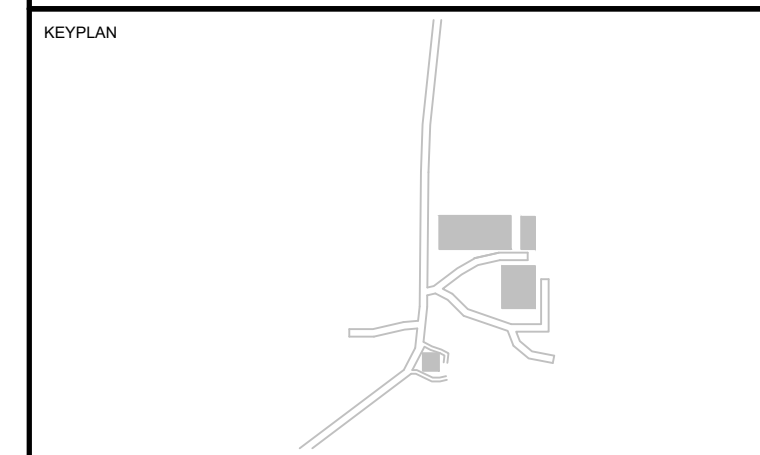
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1 TYPE 1 - MULTI-PURPOSE SPACE
AV500 TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

LEGEND	
HDB898T	-----
VIDEO	-----
AUDIO	-----
CONTROL	-----
USB	-----



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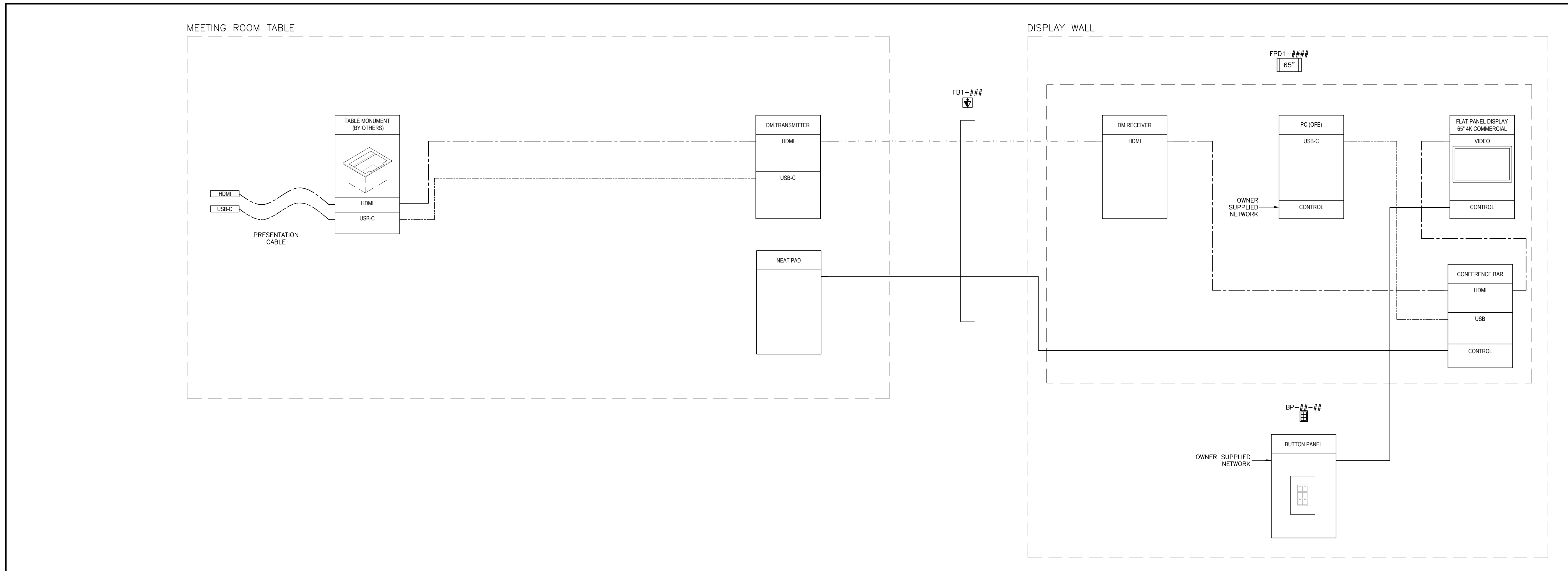
TITLE
AV FUNCTIONALS

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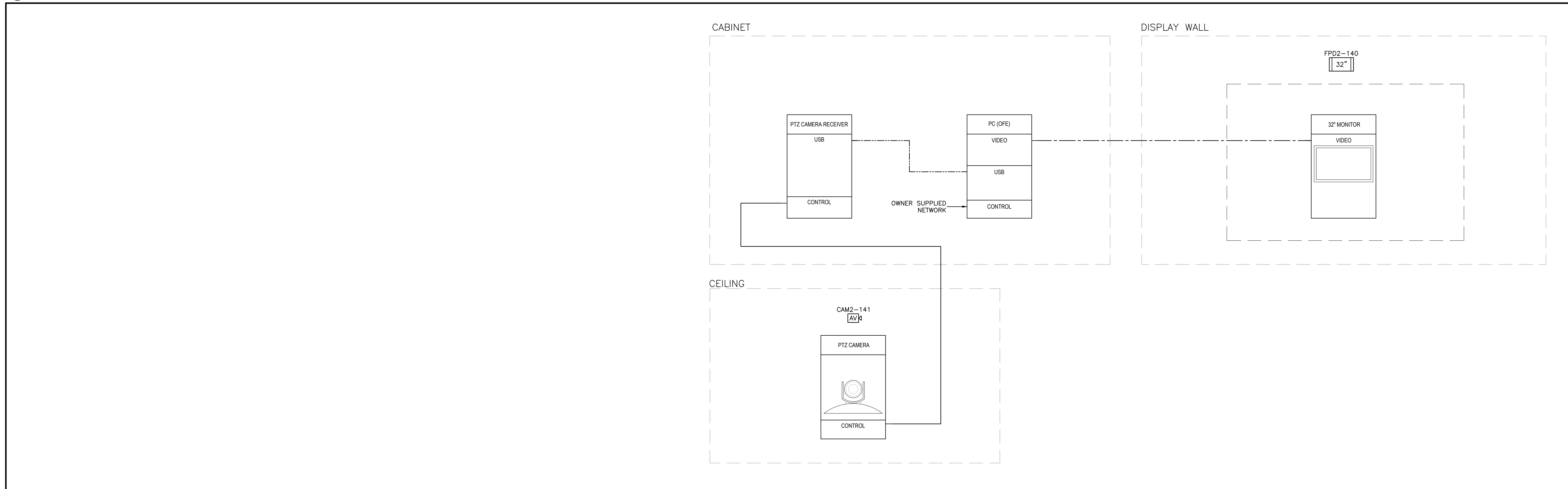
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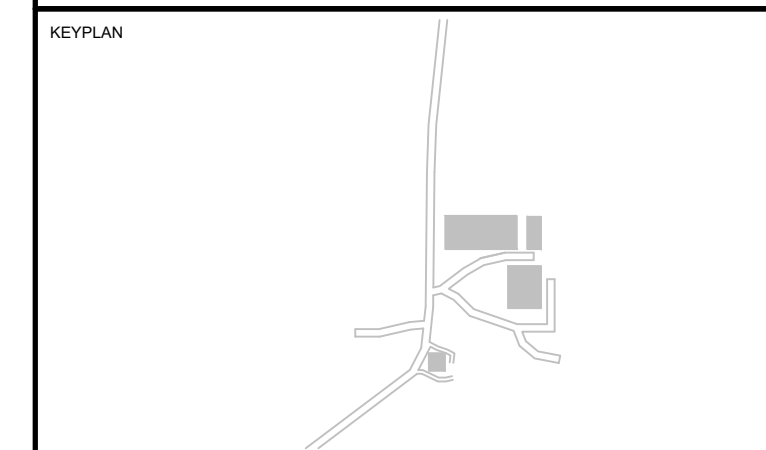


1 TYPE 2 - AV GRAD & FLEX SPACE OFFICES
TYPICAL SYSTEM FUNCTIONAL SCHEMATIC



2 TYPE 4 - FORENSIC GARAGE
TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

LEGEND	
HDB898T	-----
VIDEO	-----
AUDIO	-----
CONTROL	-----
USB	-----



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TITLE
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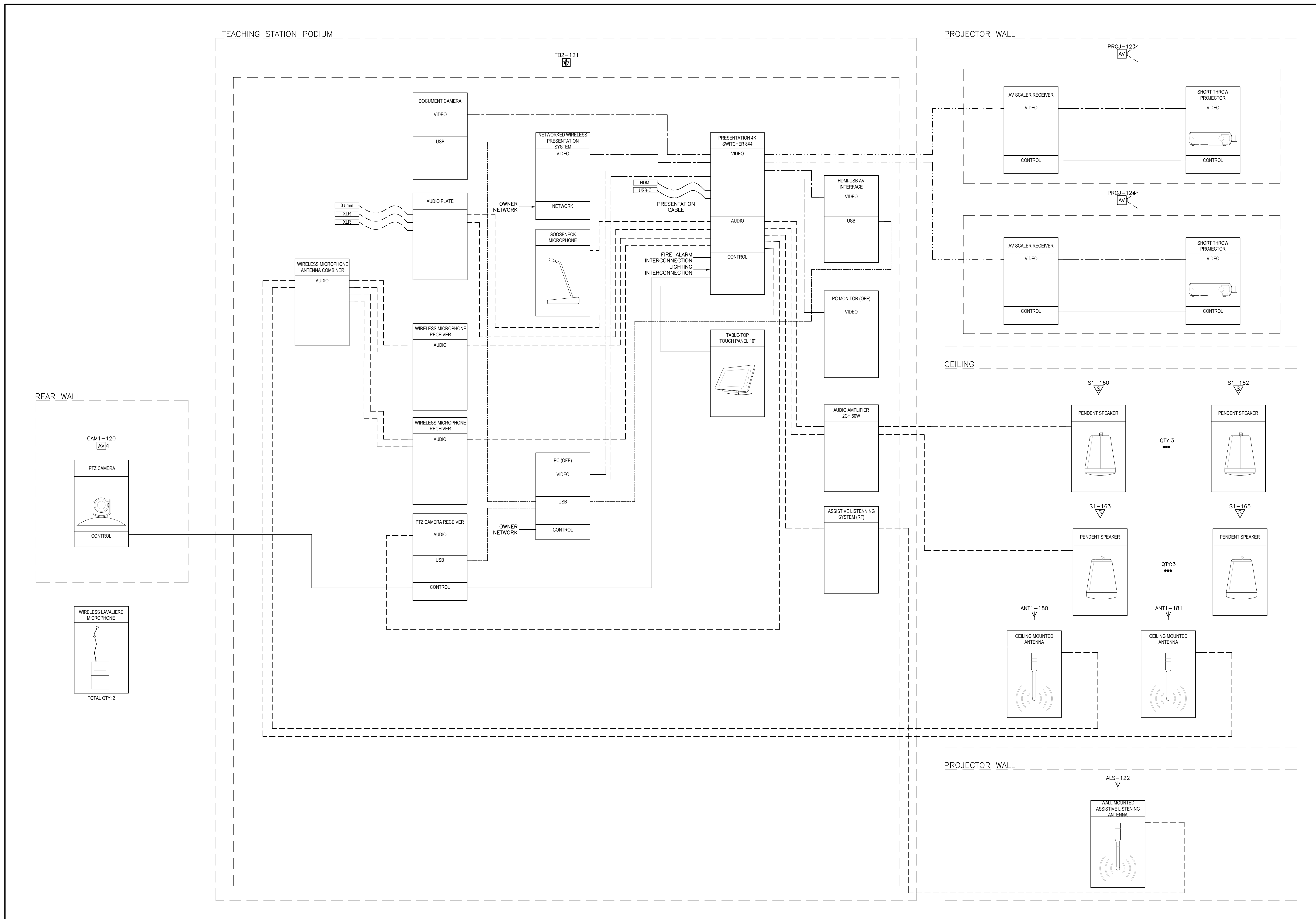
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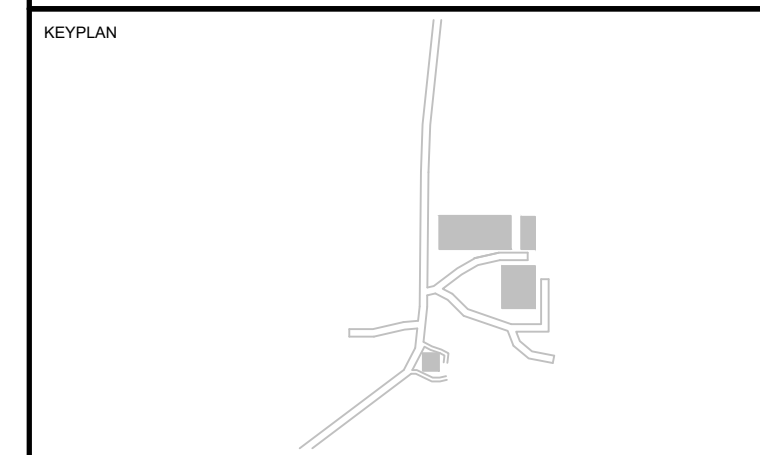
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1 TYPE 3 - FORENSIC TEACHING CLASSROOM
TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

LEGEND	
HD0898T	-----
VIDEO	-----
AUDIO	-----
CONTROL	-----
USB	-----



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