



# YORK REGION PRS #33 RFTC 397-21

2960 TESTON ROAD, VAUGHAN

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

STRUCTURAL CONSULTANT  
**SALAS O'BRIEN**  
2235 VICTORIA PARK AVE #1100  
TORONTO, ON M2J 5B5  
TEL: (416) 635-9970  
WWW.SALASOBRIEN.COM

MECHANICAL CONSULTANT  
**ZON ENGINEERING**  
465 PINEBUSH RD UNIT 5  
CAMBRIDGE, ON N1T 2J4  
TEL: 1-888-338-8363  
WWW.ZONENGINEERING.COM

ELECTRICAL CONSULTANT  
**KIRKLAND ENGINEERING**  
570 WATER STREET  
PETERBOROUGH, ON K9H 3M8  
TEL: (705) 745-2631  
WWW.KIRKLANDENG.COM

LANDSCAPE CONSULTANT  
**HARRINGTON MCAVAN LTD**  
41 MAIN ST UNIONVILLE UNIT 102  
UNIONVILLE, ON L3R 2E5  
TEL: (905) 294-9292  
WWW.HARRINGTONMCAVAN.COM

SITE SERVICING CONSULTANT  
**MGM CONSULTING INC.**  
400 BRONTE STREET SOUTH  
MILTON, ON L9T 0H7  
TEL: (905) 875-1228  
WWW.MGM.ON.CA

## ARCHITECTURAL DRAWING LIST

SHEET	TITLE
A0.0	DRAWING INDEX & OBC MATRIX
A0.1	GUIDE TO USE OF DRAWINGS, TYPICAL DETAIL LIST, ABBREVIATIONS
A0.2	EXTERIOR & INTERIOR ASSEMBLIES
A0.3	FIXTURE MOUNTING HEIGHTS
A1.1	FIRE, LIFE SAFETY AND AODA REQUIREMENTS
A1.2	OBC LIMITING DISTANCE REVIEW
A2.1	SITE SURVEY
A2.2	SITE DEMOLITION, SITE DETAILS
A2.3	TREE INVENTORY / REMOVAL / PRESERVATION PLAN
A2.4	SITE PLAN & SITE STATISTICS
A2.5	LAYOUT PLAN - SITE
A2.6	SITE PLAN DETAILS
A2.7	SITE PLAN DETAILS
A2.8	CANOPY DETAILS/ FOUNDATION & ROOF PLANS
A3.1	FOUNDATION PLAN
A3.2	LAYOUT PLAN - FOUNDATION & GROUND FLOOR
A3.3	FLOOR PLAN
A3.4	FLOOR PLAN - INTERIOR PARTITION LAYOUT
A3.5	VEHICLE BAY, I.T. ROOM, CREW AREA ELEVATIONS & DETAILS
A3.6	VEHICLE BAY ELEVATIONS AND DETAILS
A4.1	ROOF PLAN
A4.2	LAYOUT PLAN - EDGE OF DECK
A5.1	BUILDING ELEVATIONS
A6.1	CLADDING, GLAZING AND LOUVER ELEVATIONS
A7.1	BUILDING SECTIONS
A7.2	BUILDING SECTIONS
A8.1	WALL SECTIONS
A8.2	WALL SECTIONS
A9.1	FLOOR FINISH AND FURNITURE PLAN
A9.2	FLOOR PLAN FINISH DETAILS
A10.1	REFLECTED CEILING PLAN
A11.1	WASHROOM PLANS, ELEVATIONS & DETAILS
A12.1	MILLWORK PLANS, ELEVATIONS & DETAILS
A12.2	MILLWORK DETAILS
A13.1	DOOR FINISH SCHEDULE

## STRUCTURAL DRAWING LIST

SHEET	TITLE
S0-00	LEAD SHEET
S1-01	FOUNDATION PLAN
S1-02	ROOF FRAMING PLAN
S2-01	FOUNDATION DETAILS
S3-01	ROOF SECTIONS
S4-01	GENERAL NOTES
S4-02	TYPICAL DETAILS
S4-03	TYPICAL DETAILS
S4-04	TYPICAL DETAILS
M0.1	COVER SHEET / SITE PLAN
M1.0	SCHEDULES
M1.1	SCHEDULES
M2.0	PLUMBING & DRAINAGE
M3.0	HEATING PLAN
M3.1	COOLING
M3.2	VENTILATION
M3.4	PART PLANS
M5.0	SCHEMATICS
M5.1	DETAILS
M5.2	DETAILS
M5.3	DETAILS
M6.0	FIRE PROTECTION

## MECHANICAL DRAWING LIST

SHEET	TITLE
M0.1	COVER SHEET / SITE PLAN
M1.0	SCHEDULES
M1.1	SCHEDULES
M2.0	PLUMBING & DRAINAGE
M3.0	HEATING PLAN
M3.1	COOLING
M3.2	VENTILATION
M3.4	PART PLANS
M5.0	SCHEMATICS
M5.1	DETAILS
M5.2	DETAILS
M5.3	DETAILS
M6.0	FIRE PROTECTION

## ELECTRICAL DRAWING LIST

SHEET	TITLE
E1	LEGEND AND SCHEDULE DRAWING LIST
E2	ELECTRICAL SITE PLAN
E3	TBD
E4	POWER AND SYSTEMS PLAN
E5	SECURITY PLAN
E6	LIGHTING PLAN
E7	FIRE ALARM PLAN AND DETAILS
E8	PANEL SCHEDULES AND SINGLE LINE DIAGRAM
E9	LIGHTING CONTROL SCHEMATICS
E10	TBD

## LANDSCAPE DRAWING LIST

SHEET	TITLE
L1	LANDSCAPE PLANS AND DETAILS

## CIVIL DRAWING LIST

SHEET	TITLE
CV-1	REMOVALS AND EROSION & SEDIMENT CONTROL PLAN
CV-2	GRADING PLAN
CV-3	SERVICING PLAN

## ONTARIO BUILDING CODE DATA MATRIX

### PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY

Name of Practice Address 1 Address 2		Thomas Brown Architects Inc. 197 Spadina Avenue, Suite 500 Toronto, ON M5T 2C8		Name of Project Location/Address Contact		York Region Paramedic Response Station #33 2960 Teston Road, Vaughan Chris Kubbanga	
3.00 BUILDING CODE VERSION		O.Reg. 332/12		LAST AMENDMENT		O.Reg. 511/20	
3.01 PROJECT TYPE		New Construction				[A] 1.1.2.	
		Construction of New Paramedic Response Station					
3.02 MAJOR OCCUPANCY CLASSIFICATION		OCCUPANCY		USE		3.1.2.1.(1)	
		D F3		Business & Personal Services Low Hazard Industrial		Office Storage Garage	
3.03 SUPERIMPOSED MAJOR OCCUPANCIES		N/A				3.2.2.7.	
3.04 BUILDING AREA (m²)		DESCRIPTION		EXISTING		NEW	
		Building Footprint		0.00		386.00	
		TOTAL		-		386.00	
3.05 GROSS AREA (m²)		DESCRIPTION		EXISTING		NEW	
		1st Storey		0.00		386.00	
		TOTAL		-		386.00	
3.06 MEZZANINE AREA (m²)		DESCRIPTION		EXISTING		NEW	
		N/A		0.00		0.00	
		TOTAL		-		-	
3.07 BUILDING HEIGHT		1 0		STOREYS ABOVE GRADE STOREYS BELOW GRADE		7.50 (m) ABOVE GRADE	
3.08 HIGH BUILDING		No				3.2.11.	
3.09 NUMBER OF STREETS/ FIREFIGHTER ACCESS		1		STREET(S)		3.2.2.10. & 3.2.5.	
3.10 BUILDING CLASSIFICATION (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY)		3.2.2.56. 3.2.2.79.		Group D, up to 2 Storeys, Sprinklered Group F, Division 3, up to 2 Storeys, Sprinklered		3.2.2.20-83.	
3.11 SPRINKLER SYSTEM		Required		PROVIDED:		Entire Building	
		DESCRIBE		Sprinkler System is part of Contract scope		3.2.1.5. & 3.2.2.17.	
3.12 STANDPIPE SYSTEM		Not Required				3.2.9	
3.13 FIRE ALARM SYSTEM		Required		TYPE PROVIDED		Single Stage	
		Fire Alarm System provided as part of Contract				3.2.4.	
3.14 WATER SERVICE/ SUPPLY IS ADEQUATE		Yes					
3.15 CONSTRUCTION TYPE		RESTRICTIONS		Combination Permitted		3.2.2.20-83.	
		ACTUAL		Noncombustible		HEAVY TIMBER CONSTRUCTION	
						N/A	
3.16 IMPORTANCE CATEGORY		Post-Disaster		-		4.1.2.1.(3), 14.1.2.1.B.	
3.17 SEISMIC HAZARD INDEX (IE Fa Sa (0.2)) =		0.31		Seismic Design Required for Table 4.1.8.18. Items 6 to 21		4.1.8.18.(1)	
3.18 REASONING FOR REQUIREMENT		Importance Category				4.1.8.18.(2)	
3.19 OCCUPANT LOAD		FLOOR LEVEL/AREA		OCCUPANCY TYPE		BASED ON	
		First Floor		Group D		Design of space	
		TOTAL				10	
3.20 HAZARDOUS SUBSTANCES		No				3.3.1.2. & 3.3.1.19.	
3.21 REQUIRED FIRE...		1.5 Hr 1hr		Storage Garage Separation Between Group D & F3 Mechanical / Electrical Room (Service Room)		3.3.5.6 3.6.2.1	
3.22 REQUIRED FIRE RESISTANCE RATINGS		HORIZONTAL ASSEMBLY		RATING (H)		LISTED DESIGN NO. ULC OR ASSEMBLY SB-2	
		FLOORS		45 min		N/A	
		MEZZANINE		N/A		N/A	
		ROOF		N/A		N/A	
		SUPPORT ASSEMBLY		RATING (H)		LISTED DESIGN NO. ULC OR ASSEMBLY SB-2	
		FLOORS		45 min		N/A	
		MEZZANINE		N/A		N/A	
		ROOF		N/A		N/A	
3.23 SPATIAL SEPARATION		WALL		EBF AREA (m2)		L.D. (m) OBC	
		North		150		6.00	
		West		102		9.00	
		East		147		9.00	
		South		145		9.00	
		WALL		L.D. (m) OBC		L.D. (m) ACTUAL	
		North		6.00		6.80	
		West		9.00		14.10	
		East		9.00		24.70	
		South		9.00		18.60	
3.24 BARRIER-FREE DESIGN		Yes				3.8.	
3.25 BARRIER-FREE ENTRANCES		No. of ENTRANCES PEDESTRIAN ENTRANCES		1		3.8.1.2	
		No. of ENTRANCES REQ'D TO BE BARRIER FREE		1		3.8.1.2	
3.26 BUILDING EXISTS		DESCRIPTION		REQUIRED		PROVIDED	
		Ground Floor		2		7	
3.27 LOCATION OF EXITS		OCCUPANCY		REQUIRED		PROVIDED	
		Business & Personal Services		40m Max			
		Low Hazard Industrial		45m Max			
3.28 PLUMBING FIXTURE REQUIREMENTS		RATIO:		MALE:FEMALE = 50:50 EXCEPT AS NOTED OTHERWISE		3.7.4.	
		FLOOR LEVEL/AREA		OCCUPANT LOAD		OBC SENTENCE	
		First Floor Male		5		3.7.4.7	
		First Floor Female		5		3.7.4.7	
3.29 ENERGY EFFICIENCY		COMPLIANCE PATH:		ASHRAE 90.1-2013 +SB10 Division 3 Chapter 2		FIXTURES REQUIRED	
		CLIMATIC ZONE:		ZONE 6		FIXTURES PROVIDED	
3.30 BUILDING ENVELOPE REQUIREMENTS		DESCRIPTION		REQUIRED		PROVIDED	
		ROOF, ENTIRELY ABOVE DECK:		R-35 ci		R-35	
		WALLS ABOVE GRADE, MASS:		R-19 ci		R-21.5	
		WALLS ABOVE GRADE, STEEL FRAMED:		R-13 + R15 ci		R-13 + R15 ci	
		SLAB-ON-GRADE (UNHEATED)		R-15 for 48in		R-15	
3.31 NOTES							



ABBREVIATION LIST		ABBREVIATION LIST		ABBREVIATION LIST		ABBREVIATION LIST	
ABBREV.	WORD	ABBREV.	WORD	ABBREV.	WORD	ABBREV.	WORD
A & @	AND ABOVE FINISH FLOOR	FAPS	FIRE ALARM PULL STATION	MAX	MAXIMUM	S.	SOUTH
A.F.F	ARCHITECTURAL	FD	FLOOR DRAIN	MECH	MECHANICAL	S.C.S.	SOLID CORE STEEL
AL	ALUMINUM	FDN	FOUNDATION	MED	MEDIUM	S.C.W.	SOLID CORE WOOD
ARCH	ARCHITECTURAL	FE	FIRE EXTINGUISHER	MFG	MANUFACTURING	S.M.	SHEET METAL
ATC	ACOUSTIC TILE CEILING	FEC	FIRE EXTINGUISHER CABINET	MFR	MANUFACTURER	S.N.D.	SANITARY NAPKIN DISPENSER
AUTO	AUTOMATIC	FHC	FIRE HOSE CABINET	MIR	MIRROR	S.P.	STEEL PLATE
		FIN	FINISH	MIN	MINIMUM	S.S.	STAINLESS STEEL
		FLR	FLOOR	MISC	MISCELLANEOUS	S.SK.	SERVICE SINK
		FRR	FIRE RESISTANCE RATING	MM	MILLIMETER	S.T.C.	SOUND TRANSMISSION CLASS
B	BOTTOM OF	FRTS	FIRE ROUTE SIGN	MTC COORD	MULTIPLE TRADE COORDINATION REQUIRED	SC(O)T	SCUPPER - OVERFLOW TYPE
B.O	BETWEEN	FT	FEET FOOT			SCHED	SCHEDULE
BAB	ROOF ANCHOR - BOLT AROUND BEAM	FTG	FOOTING	MTD	MOUNTED	SECT.	SECTION
BD	BOARD			MTL	METAL	SER.	SERVICE
BF	BARRIER FREE	G	GYPSUM WALL BOARD	MWLLBD(L)	MURPHY WALL BED - LATERAL	SH.	SHOWER
BIT	BITUMINOUS	G.W.B	GAUGE	MWLLBD(V)	MURPHY WALLBED - VERTICAL	SHLV.	SHELVING
BLDG	BUILDING	GA	GALVANIZED			SIM.	SIMILAR
BLKG	BLOCKING	GL	GLAZING	N	NORTH	SQ.	SQUARE
BS	BLACK-OUT WINDOW SHADE	GND	GROUND	N.S	NON-SLIP	SQ.FT.	SQUARE FEET, SQUARE FOOT
		GYP	GYPSUM BOARD	N.T.S	NOT TO SCALE	SSUR	SOLID SURFACING (MATERIAL)
C				NFWH	NOT-FREEZE WALL HYDRANT	SSUR(S)	SOLID SURFACE (MATERIAL) FOR ISLAND COUNTERTOPS
C.B.U	CONCRETE BLOCK UNIT			NIC	NOT IN CONTACT		
C.L.	CENTERLINE			NO	NUMBER	SSUR(W/S)	SOLID SURFACE (MATERIAL) FOR WINDOW SILLS
C.M.U	CONCRETE MASONRY UNIT	H		O		STA	STANDARD
CW	COMPLETE WITH	H.S.P	HOSE STAND PIPE	O.C.	ON CENTER	STD.	STATION
CASH	CASH ALLOWANCE ITEM	H.V.A.C	HEATING, VENTILATION, AIR CONDITIONING	O.D.	OUTSIDE DIAMETER	STL	STEEL
CAB	CABINET	HB	HOSE BIB	O.H.	OVERHEAD	STOR.	STORAGE
CHAN	CHANNEL	HD	HAND DRYER	OPG.	OPENING	STRUCT.	STRUCTURAL
CL	CLOSET	HDA	HEAVY DUTY ASPHALT	OPR.	OPPOSITE	SUSP.	SUSPENDED
CLG	CEILING	HDW	HARDWARE	ORN.	ORNAMENTAL	SYS.	SYSTEM
CONTR	COUNTER	HLR	HORIZONTAL LIFELINE FALL PROTECTION SYSTEM - ROOF MOUNTED	OZ.	OUNCE	T	TONGUE AND GROOVE
COL	COLUMN			P		T.&G.	TONGUE AND GROOVE
CONC	CONCRETE	HLW	HORIZONTAL LIFELINE FALL PROTECTION SYSTEM-WALL MOUNTED	P.B.	PUSH BUTTON	T.T.D.	TOILET TISSUE DISPENSER
CONST	CONSTRUCTION	HM	HOLLOW METAL	P.C.	PRECAST	T.T.H.	TOILET TISSUE HOLDER
CONT	CONTINUOUS	HORIZ	HORIZONTAL	P.P.	PUSH PLATE	T/O	TOP OF
CONTR	CONTRACTOR	HR	HOUR	P.T.D.	PAPER TOWEL DISPENSER	TEL	TELEPHONE
CORR	CORRIDOR	HT	HEIGHT	PAR.	PARALLEL	TEMP.	TEMPERATURE
CPT	CARPET			PART	PARTITION	THR.	THRESHOLD
CR	CARD READER			PER	PERIMETER	THRU.	THROUGH
CT	CERAMIC FLOOR TILE	I	INSIDE DIAMETER	PERP.	PERPENDICULAR	TOFM	TOILET - FLOOR MOUNTED
CTB	CERAMIC TILE BASE	I.D	INSIDE DIAMETER	PL	PLATE	TOWM	TOILET - WALL MOUNTED
CWT	CERAMIC WALL TILE	IN	INCH/INCHES	PLAM.	PLASTIC LAMINATE	TV.	TELEVISION
		INFO	INFORMATION	PL.F.	PLATFORM	TYP.	TYPICAL
D		INSUL	INSULATION	PNL.	PANEL	U	
D.F	DRINKING FOUNTAIN	INT	INTERIOR	PNT	PANT	U.L.C.	UNDERWRITERS' LABORATORIES CANADA
D.O	DOOR OPERATOR			PR	PAIR	U.N.O.	UNLESS NOTED OTHERWISE
DET	DETAIL	J		PREFAB	PREFABRICATED	U.O.S.	UNLESS OTHERWISE SPECIFIED
DIA	DIAMETER	J.C	JANITOR CLOSET	PRFN	PREFINISHED	U.S.S.	UNDER SIDE OF STRUCTURE
DIM	DIMENSION	JT	JOINT	PT	PORCELAIN TILE	UNFN.	UNFINISHED
DN	DOWN			PVC.	PUSH TO LOCK	UR.	URNAL
DR	DOOR	K					
DS	DOWNSPOUT	K.P	KICK PLATE				
DWG	DRAWING						
DWR	DRAWER	L					
		L.F	LINEAR FOOT				
E		L.H	LEFT HAND				
E.W	EACH WAY	L.P	LOW POINT				
EFG	ENTRANCE FLOOR GRILLE	LAM	LAMINATE				
EL	ELEVATION	LAV	LAVATORY	R			
ELECT	ELECTRICAL	LDA	LIGHT DUTY ASPHALT	R.D.	RADIUS	W	
ELEV	ELEVATOR	LNO	LINOLEUM	R.D.	ROOF DRAIN	W.	WEST
EMER	EMERGENCY	LKR	LOCKER	R.H.	RIGHT HAND	W.C.	WATER CLOSET
ENCL	ENCLOSURE	LNT	LINTEL	R.O.	ROUGH OPENING	W.M.	WIRE MESH
ENR	ENTRANCE ENTRY	LRG	LARGE	R.W.	RAIN WATER	W.O.	WINDOW OPENING
EQ	EQUAL	LVL	LEVEL	RCA	REINFORCED CONCRETE APRON	W.W.F.	WELDED WIRE FABRIC
EQUIP	EQUIPMENT	LVR	LOUVER	REF.	REFRIGERATOR	W/	WITH
ES	ELECTRIC STRIKE	LVR.O	LOUVER OPENING	REQD	REQUIRED	W/O	WITHOUT
EXIST	EXISTING	M		RES.	RESIDENTIAL	WD.	WOOD
EXP	EXPOSED	M	METER	REX	REQUEST TO EXIT	WRGBB	WATER RESISTENT GYPSUM BACKING BOARD
EXT	EXTERIOR	M.O	MASONRY OPENING	RM	ROOM	WS	WINDOW SHADE
F		M.P	METAL PLATE	RSL	RESILIENT	WT	WALL TILE
F.A	FIRE ALARM	MAINT	MAINTENANCE	S			
		MAS	MASONRY				

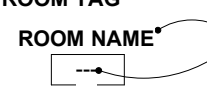
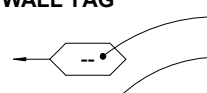


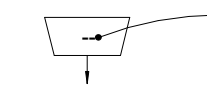

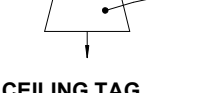
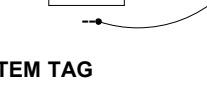
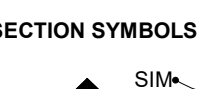

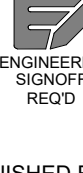

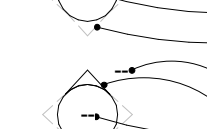
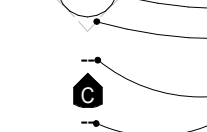

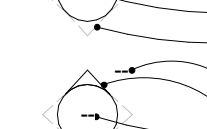
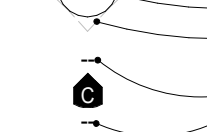
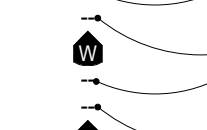
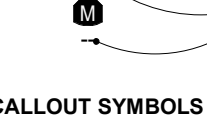
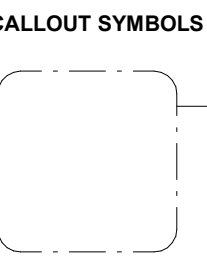








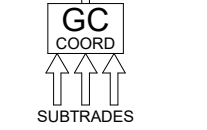


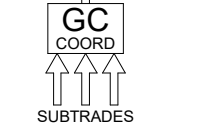
SPECIFIED ITEMS (TOTAL QTY)		
TAG	DESCRIPTION	QUANTITY
DEFIB	DEFIB (OWNER SUPPLIED/ INSTALLED UNDER CONTRACT)	1
ACCESS CORRIDOR		
TB-1	TACKBOARD	1
WB-2	WHITEBOARD	1
FEC	FIRE EXTINGUISHER CABINET (RECESSED)	2
CH	COAT HOOK	5
CREW LOUNGE		
WSBO	WINDOW SHADE c/w BLACKOUT SHADE	2
DINING AREA		
WSBO	WINDOW SHADE c/w BLACKOUT SHADE	2
LOCKER ROOM		
L	LOCKERS AS SPECIFIED (REFER TO DRAWINGS FOR LAYOUT)	18
MECH / ELEC ROOM		
FEC	FIRE EXTINGUISHER CABINET (RECESSED)	1
MENS WASHROOM		
CH	COAT HOOK	2
GBR	GRAB BAR	1
GBR+GBR-L SET	GRAB BAR SET (1 STRAIGHT + 1 L-SHAPED)	1
MI-T	BARRIER FREE TILTED MIRROR	1
RSH	RECESSED SOAP HOLDER	1
RSPH	RECESSED SHAMPOO HOLDER	1
RSS	RETRACTABLE SHOWER SEAT	1
SC+R	SHOWER CURTAIN	1
SD	SOAP DISPENSER	1
TTD	TOILET TISSUE DISPENSER	1
VEHICLE BAY		
CD	CORD DROP	2
FEC	FIRE EXTINGUISHER CABINET (RECESSED)	2
EW	EYE WASH (FOOT OPERATED)	1
HR	HOSE REEL - WALL MOUNTED	1
WOMENS WASHROOM		
CH	COAT HOOK	2
GBR	GRAB BAR	1
GBR+GBR-L SET	GRAB BAR SET (1 STRAIGHT + 1 L-SHAPED)	1
MI-T	BARRIER FREE TILTED MIRROR	1
RSH	RECESSED SOAP HOLDER	1
RSPH	RECESSED SHAMPOO HOLDER	1
RSS	RETRACTABLE SHOWER SEAT	1
SC+R	SHOWER CURTAIN	1
SD	SOAP DISPENSER	1
TTD	TOILET TISSUE DISPENSER	1
WRITE UP ROOM		
TB-1	TACKBOARD	1
Grand total: 62		

SPECIFIED ITEMS (BY LOCATION)		
TAG	DESCRIPTION	QUANTITY
DEFIB	DEFIB (OWNER SUPPLIED/ INSTALLED UNDER CONTRACT)	1
ACCESS CORRIDOR		
TB-1	TACKBOARD	1
WB-2	WHITEBOARD	1
FEC	FIRE EXTINGUISHER CABINET (RECESSED)	2
CH	COAT HOOK	5
CREW LOUNGE		
WSBO	WINDOW SHADE c/w BLACKOUT SHADE	2
DINING AREA		
WSBO	WINDOW SHADE c/w BLACKOUT SHADE	2
LOCKER ROOM		
L	LOCKERS AS SPECIFIED (REFER TO DRAWINGS FOR LAYOUT)	18
MECH / ELEC ROOM		
FEC	FIRE EXTINGUISHER CABINET (RECESSED)	1
MENS WASHROOM		
CH	COAT HOOK	2
GBR	GRAB BAR	1
GBR+GBR-L SET	GRAB BAR SET (1 STRAIGHT + 1 L-SHAPED)	1
MI-T	BARRIER FREE TILTED MIRROR	1
RSH	RECESSED SOAP HOLDER	1
RSPH	RECESSED SHAMPOO HOLDER	1
RSS	RETRACTABLE SHOWER SEAT	1
SC+R	SHOWER CURTAIN	1
SD	SOAP DISPENSER	1
TTD	TOILET TISSUE DISPENSER	1
VEHICLE BAY		
CD	CORD DROP	2
FEC	FIRE EXTINGUISHER CABINET (RECESSED)	2
EW	EYE WASH (FOOT OPERATED)	1
HR	HOSE REEL - WALL MOUNTED	1
WOMENS WASHROOM		
CH	COAT HOOK	2
GBR	GRAB BAR	1
GBR+GBR-L SET	GRAB BAR SET (1 STRAIGHT + 1 L-SHAPED)	1
MI-T	BARRIER FREE TILTED MIRROR	1
RSH	RECESSED SOAP HOLDER	1
RSPH	RECESSED SHAMPOO HOLDER	1
RSS	RETRACTABLE SHOWER SEAT	1
SC+R	SHOWER CURTAIN	1
SD	SOAP DISPENSER	1
TTD	TOILET TISSUE DISPENSER	1
WRITE UP ROOM		
TB-1	TACKBOARD	1

TYPICAL DETAILS LIST		
SHEET NUMBER	DIVISION	DETAIL VIEW NAME
Division 0 - Schedules		
A0.3	Division 0 - Schedules	00-0004 - FMH-1 - FIXTURE MOUNTING HEIGHTS
A0.3	Division 0 - Schedules	00-0005 - FMH-2 - FIXTURE MOUNTING HEIGHTS
A0.3	Division 0 - Schedules	00-0006 - FMH-3 - FIXTURE MOUNTING HEIGHTS
A13.1	Division 0 - Schedules	00-0001 - DR-1 - DOOR LEGEND AND FRAME TYPES
Division 2 - Site Construction		
A2.2	Division 2 - Site Construction	2-0002 - CF-1 - CONSTRUCTION FENCING
A2.2	Division 2 - Site Construction	2-0003 - CBST-1 - CBST DETAILS
A2.2	Division 2 - Site Construction	2-0004 - CS-1 - CONSTRUCTION SIGN
A2.2	Division 2 - Site Construction	2-0007 - SCF-1 - SEDIMENT CONTROL FENCING
A2.4	Division 2 - Site Construction	2-0016 - SUR-1 - ASPHALT AND CONCRETE SURFACES
A2.6	Division 2 - Site Construction	2-0008 - ADDA PARK-1 - ADDA PARKING SPACE DETAILS
A2.6	Division 2 - Site Construction	2-0008 - ADDA RAMP-1 ADDA PARKING SPACE DETAILS
A2.6	Division 2 - Site Construction	2-0011 - CD-1 - CURB DETAILS
A2.6	Division 2 - Site Construction	2-0012 - CD-2 - CURBS AND RAMP DETAILS - SIDEWALKS AND DRIVEWAY ENTRANCES
A2.6	Division 2 - Site Construction	2-0013 - CD-3 - ADDA RAMP DETAILS
A2.6	Division 2 - Site Construction	2-0062 - GD-2 - GENERATOR DETAIL (EXTERIOR)
A2.7	Division 2 - Site Construction	2-0009 - BF-1 - HCP SIGN FLEXPOST
A2.7	Division 2 - Site Construction	2-0014 - CLF-1 - CHAIN LINK FENCE DETAILS
A2.7	Division 2 - Site Construction	2-0015 - FP-1 - FLAG POLE BASE
A2.7	Division 2 - Site Construction	2-0017 - TF-1 - TYPICAL FENCE DETAILS
A2.7	Division 2 - Site Construction	2-0019 - LS-2 - LIGHT STANDARD LOW BASE DETAIL
A2.7	Division 2 - Site Construction	2-0060 - DPS - DIGITAL PYLON SIGNAGE
A2.7	Division 2 - Site Construction	2-0081 - MS - MUNICIPAL SIGNAGE
A8.2	Division 2 - Site Construction	2-0001 - CBFP-1 -CARDBOARD TEMPORARY FLOOR PROTECTION
Division 3 - Concrete		
A2.6	Division 3 - Concrete	3-0001 - CAA-1 - CONCRETE TRANSITION APRON TYPICAL (ASPHALT)
A3.1	Division 3 - Concrete	3-0004 - FS-1 - FROST SLAB DETAILS
A3.2	Division 3 - Concrete	3-0003 - CJ - TYPICAL CONCRETE JOINTS
A3.2	Division 3 - Concrete	3-0005 - SE-1 - SLAB EDGE DETAIL
A3.2	Division 3 - Concrete	3-0006 - SE-2 - SLAB EDGE DETAIL BAY DOORS
Division 4 - Masonry		
A1.1	Division 4 - Masonry	4-0050 - TOW MASONRY PARALLEL TO DECK FLUTES
A1.1	Division 4 - Masonry	4-0051 - TOW MASONRY PERPENDICULAR TO DECK FLUTES
A1.1	Division 4 - Masonry	4-0052 - TOW MASONRY PERPENDICULAR TO OWSJ / BEAM
A1.1	Division 4 - Masonry	4-0053 - TOW MASONRY PARALLEL TO OWSJ / BEAM
A3.3	Division 4 - Masonry	4-0011 - MASONRY DETAIL AT WINDOW OPENINGS
Division 5 - Metals		
A2.7	Division 5 - Metals	5-0006 - BO-1 - TYPICAL BOLLARD DETAILS
A2.8	Division 5 - Metals	INTERMEDIATE HANGER HAT DETAIL
A2.8	Division 5 - Metals	PERFORATED ALUMINUM FIN PATTERN DETAIL
A2.8	Division 5 - Metals	PERFORATED FIN SECTION
A2.8	Division 5 - Metals	PERIMETER HANGER HAT DETAIL
A3.3	Division 5 - Metals	5-0024 - FFD-2 - FOUR FOLD DOOR JAMB DETAIL
A3.3	Division 5 - Metals	5-0029 - OHD-2 - OVERHEAD DOOR JAMB DETAIL
A3.6	Division 5 - Metals	5-0021 - FFD SURROUND DETAILS - FOUR FOLD DOORS
A3.6	Division 5 - Metals	5-0022 - OHD SURROUND DETAILS - OVERHEAD DOORS
Division 6 - Wood and Plastics		
A11.1	Division 6 - Wood and Plastics	6-0010 - MW-WSRMVANBF - BARRIER FREE MILLWORK WASHROOM VANITY
A11.1	Division 6 - Wood and Plastics	6-0016 - MW-2 -WRBNCH - WOOD BENCH DETAIL
A12.1	Division 6 - Wood and Plastics	6-0000 - MW-O - RNNY
A12.2	Division 6 - Wood and Plastics	6-0000 - MW-CA-(U)DR1SLF R12DR
A12.2	Division 6 - Wood and Plastics	6-0000 - MW-K - 2DRFR
A12.2	Division 6 - Wood and Plastics	6-0000 - MW-K - DSPNCH
A12.2	Division 6 - Wood and Plastics	6-0000 - MW-K-(U)DR1SHLF/3DW
A12.2	Division 6 - Wood and Plastics	6-0000 - MW-K-(U)2DR1SHLF/2DR2DWR
A12.2	Division 6 - Wood and Plastics	6-0000 - MW-K-(U)2DR1SHLF/2DR2SK
A12.2	Division 6 - Wood and Plastics	6-0000 - MW-K-(U)2DRMRW/2DR2DWR
A12.2	Division 6 - Wood and Plastics	6-0000 - MW-K-1 - 2DWR2DR
A12.2	Division 6 - Wood and Plastics	6-0000 - MW-O-(U)2DR1SHLF/3DWRPED
A12.2	Division 6 - Wood and Plastics	6-0002 - MW - COUNTERTOP - BKSPLSH - TILE
A12.2	Division 6 - Wood and Plastics	6-0002 - MW - COUNTERTOP - K - STAINLESS STEEL
A12.2	Division 6 - Wood and Plastics	6-0003 - MW - WORKSURFACE -1 - SSUR
Division 7 - Thermal and Moisture Protection		
A1.1	Division 7 - Thermal and Moisture Protection	7-0020 - TOW FIRE RATED - METAL TRACK DEFLECTION DETAIL
A1.1	Division 7 - Thermal and Moisture Protection	7-0021 - TOW METAL TRACK DEFLECTION DETAIL
A1.1	Division 7 - Thermal and Moisture Protection	7-0022 - TOW EXTERIOR WALLS - DECK PARALLEL TO DECK FLUTES
A1.1	Division 7 - Thermal and Moisture Protection	7-0023 - TOW EXTERIOR WALLS - DECK PERPENDICULAR TO DECK FLUTES
A1.1	Division 7 - Thermal and Moisture Protection	7-0029 - FD-1 - TYPICAL FIRE DAMPER INSTALLATION
A4.1	Division 7 - Thermal and Moisture Protection	7-0005 - RWL(CH)-1 RAIN WATER LEADER DETAIL
A4.1	Division 7 - Thermal and Moisture Protection	7-0012 - REJ-2 ROOF EXPANSION JOINT DETAILS - TORCH DOWN
A8.1	Division 7 - Thermal and Moisture Protection	7-0003 - AB-1 - AIR BARRIER DETAILS
Division 8 - Openings		
A3.6	Division 8 - Openings	8-0001 - FFD-1 - FOUR FOLD DOOR DETAILS
A3.6	Division 8 - Openings	8-0010 - OHD-1 - OVERHEAD DOOR DETAILS
A8.2	Division 8 - Openings	8-0001 - DSFFD-1 - DANGER SIGN @ FOUR FOLD DOORS
Division 9 - Finishes		
A3.2	Division 9 - Finishes	9-0008 - TD-FD-1 - TYPICAL FLOOR DRAIN - SLAB ON GRADE
A3.2	Division 9 - Finishes	9-0008-1 - TD-SO-1 - TYPICAL SHOWER DRAIN - SLAB ON GRADE
A9.2	Division 9 - Finishes	9-0002 - SSUR-1 - SOLID SURFACE SILL DETAIL
A9.2	Division 9 - Finishes	9-0006 - TD-1 - TYPICAL TILE DETAILS - THINSET (WALL + FLOOR)
A9.2	Division 9 - Finishes	9-0011 - BFSS-1 - SHOWER STALL - BARRIER FREE - FRAMED WALLS
A10.1	Division 9 - Finishes	9-0021 - CTRANS-1 - TYPE 'A' - GYPSUM BOARD BULKHEAD (GB-B) TO ADJACENT CEILINGS
A10.1	Division 9 - Finishes	9-0022 - CTRANS-2 - TYPE 'B' - GYPSUM BOARD DIVIDER TO ADJACENT CEILINGS
Division 10 - Specialties		
A0.3	Division 10 - Specialties	10-0052 - ECS - UNIVERSAL WASHROOMS
A1.1	Division 10 - Specialties	10-0060 - FE-FIRE EXTINGUISHER
A3.2	Division 10 - Specialties	10-0001 - TD-1 - TRENCH DRAIN DETAIL
A9.1	Division 10 - Specialties	10-0050 - IS-INTERIOR SIGNS
A9.2	Division 10 - Specialties	10-0007 - WTB-1 WHITEBOARD / TACKBOARD DETAILS
A10.1	Division 10 - Specialties	10-0012 - LCKR - DETAIL
A10.1	Division 10 - Specialties	10-0012 - LKTR-1 LOCKER TRIM (METAL FASCIA)
A11.1	Division 10 - Specialties	10-0006 - SCR-1 - SHOWER CURTAIN ROD AND HOOK
Division 11 - Equipment		
A2.6	Division 11 - Equipment	11-0003 - IWS-1 - INCOMING WATER SERVICE
A3.3	Division 11 - Equipment	11-0007 - HB-1 - WALL HYDRANT (NFWH) DETAIL
A12.2	Division 11 - Equipment	11-0004 - CHST - CHARGING STATION
Division 12 - Furnishings		
A3.2	Division 12 - Furnishings	12-0002 - FG-1 FLOOR GRILL
A10.1	Division 12 - Furnishings	12-0001 - WS-1 WINDOW SHADES

17 A0.1

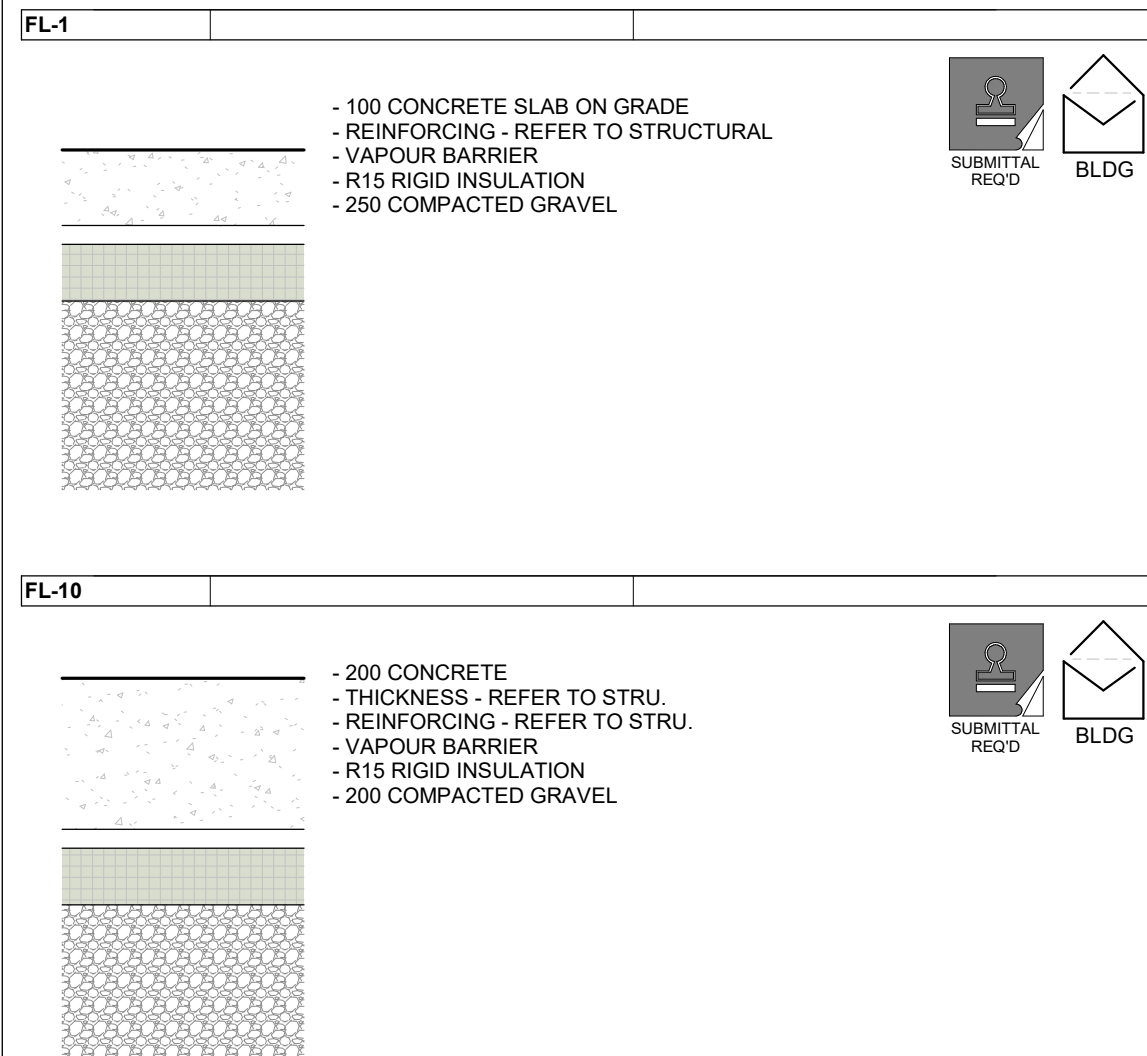
00-0001 - GUIDE TO USE OF DRAWINGS

<div><b>ROOM TAG</b></div> <div></div> <div><b>ROOM NAME</b></div>	<div>IDENTIFIES ROOM NAME</div> <div>IDENTIFIES ROOM NUMBER</div> <div>WHERE SHOWN - INDICATES OCCUPANT LOAD OR ROOM AREA</div>	<div>READ THE GENERAL NOTES. THEY CONTAIN INFORMATION THAT IS ESSENTIAL TO UNDERSTANDING THE SCOPE OF WORK.</div> <div>IT IS STRONGLY ADVISED THAT THE CONTRACTOR ENSURE ALL SUBTRADES REFER AND COORDINATE WITH A-SERIES DRAWINGS IN THE EXECUTION OF THEIR RESPECTIVE SCOPE OF WORK.</div> <div><b>DIMENSIONS</b></div> <div><div>1. THE SOFTWARE USED TO PRODUCE THESE DRAWINGS IS VERY PRECISE IN TERMS OF DIMENSIONING. FOR LAYOUT PURPOSES, DIMENSIONS CAN BE ROUNDED TO THE NEAREST 3MM INCREMENT.</div><div>2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK.</div><div>3. ALL DRAWINGS AND SPECIFICATIONS (HARD AND SOFT COPIES) ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON COMPLETION OF THE WORK.</div></div> <div><b>WALL TAG</b></div> <div></div> <div>IDENTIFIES WALL TYPE</div> <div>WHERE SHOWN - INDICATES HEIGHT OF WALL BOTTOM OF WALL FROM FINISH FLOOR BELOW AND HEIGHT OF WALL. TYPICALLY APPEARS ON REFLECTED CEILING PLANS AT BULKHEADS ETC.</div> <div><b>DOOR TAG</b></div> <div></div> <div>IDENTIFIES DOOR TYPE</div> <div><b>DOOR # DOOR TYPE</b></div> <div>IDENTIFIES DOOR NUMBER</div> <div><b>WINDOW TAG</b></div> <div></div> <div>IDENTIFIES WINDOW / CURTAIN WALL TYPE</div> <div><b>FLOOR TAG</b></div> <div></div> <div>IDENTIFIES FLOOR TYPE</div> <div><b>FLOOR FINISH TAG</b></div> <div></div> <div>IDENTIFIES FLOOR FINISH</div> <div><b>ROOF TAG</b></div> <div></div> <div>IDENTIFIES ROOF TYPE</div> <div><b>CEILING TAG</b></div> <div></div> <div>IDENTIFIES CEILING TYPE</div> <div>IDENTIFIES HEIGHT OF CEILING ABOVE FINISHED FLOOR BELOW</div> <div><b>ITEM TAG</b></div> <div></div> <div>IDENTIFIES ITEM BY A CODE OR DESIGNATION FOR REFERENCE TO SPECIFICATIONS OR SCHEDULES</div>	<div><b>SEQUENTIAL NUMBERING</b></div> <div><div>1. SOME ELEMENTS IN THE PROJECT MAY BE SEQUENTIALLY NUMBERED.</div><div>2. WHERE PROJECT ELEMENTS ARE SEQUENTIALLY NUMBERED, THOSE NUMBERS SHALL BE USED IN THE PREPARATION OF ANY REQUIRED SUBMITTALS.</div></div> <div></div> <div><b>ENGINEERED SUBMITTAL REQUIRED</b></div> <div>INDICATES WHERE A STAMPED ENGINEERED DRAWING IS REQUIRED TO BE SUBMITTED PRIOR TO FABRICATION/INSTALLATION</div> <div></div> <div><b>ENGINEERED SIGN-OFF REQUIRED</b></div> <div>INDICATES WHERE AN REVIEW SIGN-OFF LETTER IS REQUIRED TO BE SUBMITTED TO CONFIRM INSTALLATION COMPLIANCE</div>
<div><b>SECTION SYMBOLS</b></div> <div></div> <div><b>SIM</b></div> <div>IDENTIFIES WHEN DETAIL IS SIMILAR TO ANOTHER DETAIL</div> <div>THREE FILLED TRIANGLES INDICATES SECTION TYPE - BUILDING SECTION</div> <div>IDENTIFIES DETAIL NUMBER ON SHEET</div> <div>IDENTIFIES SHEET NUMBER</div> <div></div> <div><b>SIM</b></div> <div>IDENTIFIES WHEN DETAIL IS SIMILAR TO ANOTHER DETAIL</div> <div>THREE OPEN TRIANGLES INDICATES SECTION TYPE - WALL SECTION</div> <div>IDENTIFIES DETAIL NUMBER ON SHEET</div> <div>IDENTIFIES SHEET NUMBER</div> <div></div> <div><b>SIM</b></div> <div>IDENTIFIES WHEN DETAIL IS SIMILAR TO ANOTHER DETAIL</div> <div>SINGLE FILLED TRIANGLE INDICATES SECTION TYPE - DETAIL SECTION</div> <div>IDENTIFIES DETAIL NUMBER ON SHEET</div> <div>IDENTIFIES SHEET NUMBER</div>	<div><b>ELEVATION SYMBOLS</b></div> <div></div> <div>IDENTIFIES DETAIL NUMBER ON SHEET</div> <div>FILLED TRIANGLE INDICATES ELEVATION TYPE - BUILDING</div> <div>IDENTIFIES SHEET NUMBER</div> <div>TRIANGLE LOCATION INDICATES DIRECTION OF VIEW</div> <div></div> <div>IDENTIFIES DETAIL NUMBER ON SHEET</div> <div>OPEN TRIANGLE INDICATES ELEVATION TYPE - DETAIL</div> <div>IDENTIFIES SHEET NUMBER</div> <div>TRIANGLE LOCATION INDICATES DIRECTION OF VIEW</div> <div></div> <div><b>CLADDING ELEVATION</b></div> <div>IDENTIFIES DETAIL NUMBER ON SHEET</div> <div>IDENTIFIES SHEET NUMBER</div> <div></div> <div><b>GLAZING (WINDOW) ELEVATION</b></div> <div>IDENTIFIES DETAIL NUMBER ON SHEET</div> <div>IDENTIFIES SHEET NUMBER</div> <div></div> <div><b>MILLWORK ELEVATION</b></div> <div>IDENTIFIES DETAIL NUMBER ON SHEET</div> <div>IDENTIFIES SHEET NUMBER</div>	<div><b>CALLOUT SYMBOLS</b></div> <div></div> <div><b>SIM</b></div> <div>IDENTIFIES WHEN DETAIL IS SIMILAR TO ANOTHER DETAIL</div> <div>IDENTIFIES DETAIL NUMBER ON SHEET</div> <div>IDENTIFIES SHEET NUMBER</div>	
<div><b>AOOA SYMBOL</b></div> <div></div> <div>INDICATES THAT AN ITEM IS REQUIRED TO MEET REQUIREMENTS OF THE AODA (ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT) OR SIMILAR TYPE REQUIREMENT</div> <div><b>AOOA WASHROOM - ACCESSIBLE SYMBOL</b></div> <div></div> <div>INDICATES WHERE A WASHROOM IS TO BE CONSTRUCTED IN ACCORDANCE WITH AODA REQUIREMENTS FOR ACCESSIBLE WASHROOMS</div> <div><b>AOOA WASHROOM - UNIVERSAL SYMBOL</b></div> <div></div> <div>INDICATES WHERE A WASHROOM IS TO BE CONSTRUCTED IN ACCORDANCE WITH AODA REQUIREMENTS FOR UNIVERSAL WASHROOMS</div>	<div><b>FIRE RATING SYMBOL</b></div> <div></div> <div>INDICATES THAT ITEM IS OR MAY BE REQUIRED TO BE CONSTRUCTED WITH A FIRE RATING</div>	<div><b>BUILDING ENVELOPE SYMBOL</b></div> <div></div> <div><b>BLDG</b></div> <div>INDICATES THAT COMPONENT OR ASSEMBLY IS PART OF THE BUILDING ENVELOPE AS REFERENCED BY THE ONTARIO BUILDING CODE. CONTINUITY OF THE BUILDING ENVELOPE IS TO BE MAINTAINED THROUGH THE ENTIRE BUILDING</div> <div><b>CASH ALLOWANCE SYMBOL</b></div> <div></div> <div><b>CA ITEM</b></div> <div>INDICATES THAT AN ITEM WILL BE PURCHASED OR SUPPLIED UNDER THE CONTRACT CASH ALLOWANCE. REFER TO CASH ALLOWANCE SECTION OF SPECIFICATION FOR DETAILS AND/OR EXCLUSIONS</div> <div><b>MULTIPLE TRADE COORDINATION SYMBOL</b></div> <div></div> <div><b>GC COORD</b></div> <div>INDICATES CIRCUMSTANCES THAT MAY REQUIRE SPECIFIC COORDINATION EFFORT. THIS SYMBOL IS PROVIDED AS AN AID TO THE CONTRACTOR TO ENSURE PROPER EXECUTION OF THE WORK BY SUBTRADES.</div> <div>IN NO WAY IS IT INTENDED TO DICTATE MEANS OR METHODS OF EXECUTION</div> <div><b>BUILDING ENTRANCE SYMBOL</b></div> <div></div> <div><b>E</b></div> <div>INDICATES THE LOCATION OF BUILDING ENTRANCES. OFTEN CODE-RELATED</div> <div><b>SITE ACCESS SYMBOL</b></div> <div></div> <div>INDICATES THE LOCATION OF SITE ENTRANCES DURING CONSTRUCTION.</div> <div><b>SITE ACCESS</b></div>	<div><b>NIC (NOT IN CONTRACT) SYMBOL</b></div> <div></div> <div><b>NIC</b></div> <div>INDICATES THAT AN ITEM IS "NOT IN CONTRACT"</div> <div><b>INTERFERENCE COORDINATION SYMBOL</b></div> <div></div> <div><b>COORD INTERFERENCE</b></div> <div>INDICATES CIRCUMSTANCES THAT MAY REQUIRE COORDINATION FOR INTERFERENCES. THIS SYMBOL IS PROVIDED AS AN AID TO THE CONTRACTOR TO ENSURE PROPER EXECUTION OF THE WORK BY SUBTRADES</div> <div>IN NO WAY IS IT INTENDED TO DICTATE MEANS OR METHODS OF EXECUTION</div> <div><b>CLARITY SYMBOL</b></div> <div></div> <div>INDICATES A DRAWING VIEW THAT HAS BEEN FILTERED OR SIMPLIFIED TO DEMONSTRATE A PARTICULAR DETAIL OR RELATIONSHIP. IN NO WAY WILL THESE VIEWS BE USED AS THE BASIS FOR A REDUCTION IN PROJECT SCOPE</div>

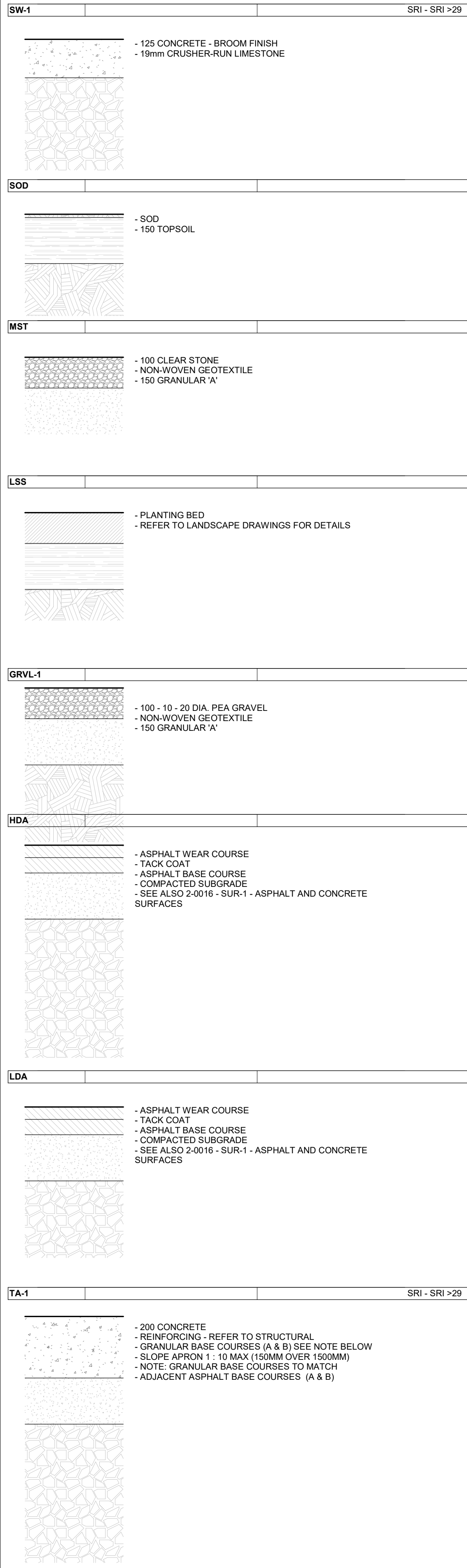
PRINTING THESE DRAWINGS ARE BEST PRINTED IN COLOUR OR GRAYSCALE. PRINTING THEM IN BLACK AND WHITE MAY DEGRADE REPRODUCTION QUALITY.



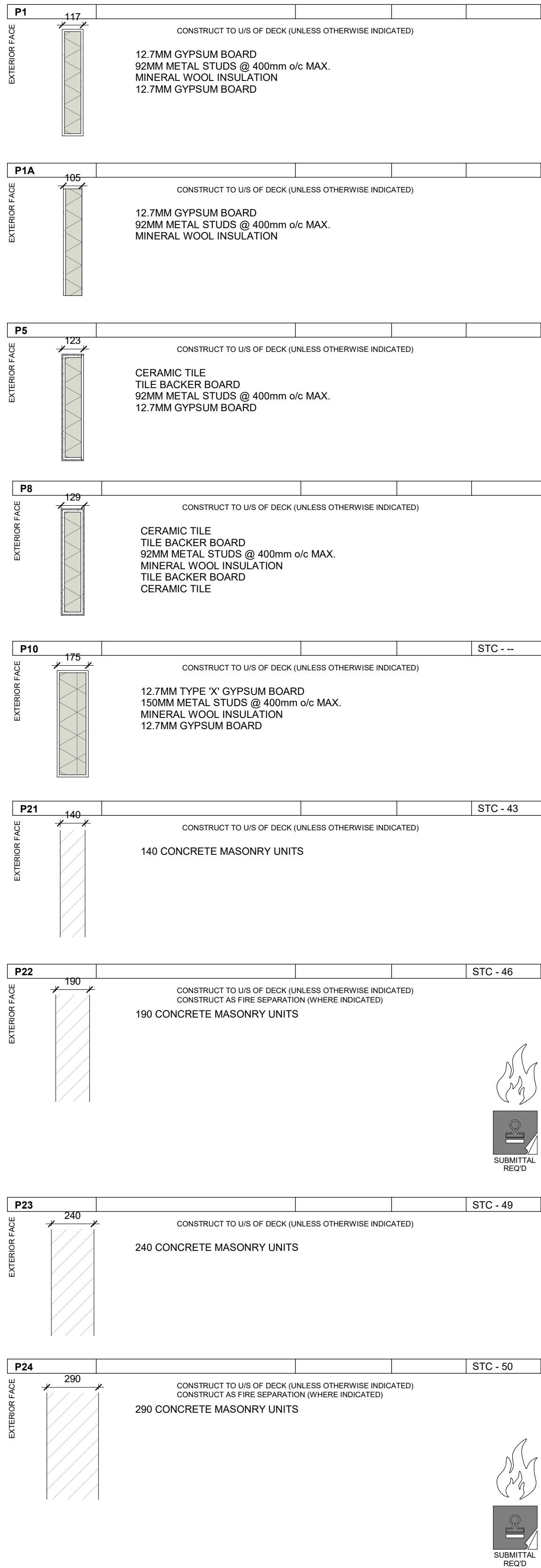
## 2 FLOOR ASSEMBLIES - INTERIOR



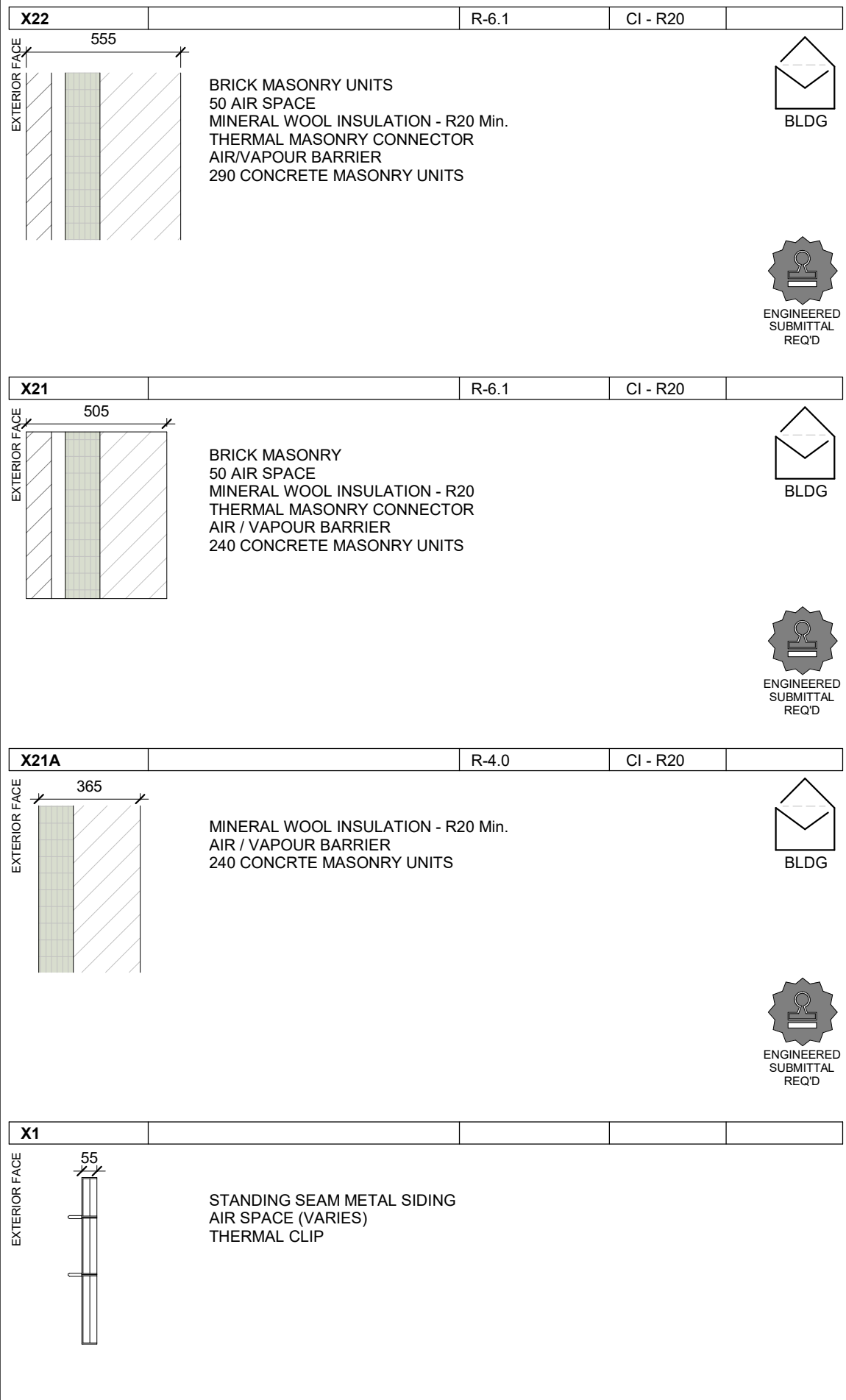
## 3 FLOOR ASSEMBLIES - EXTERIOR



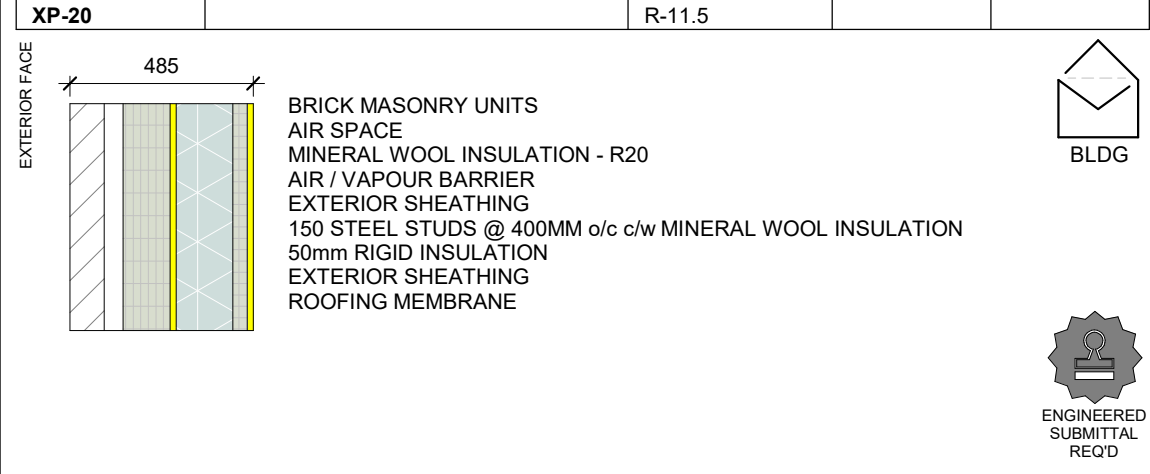
## 8 WALL ASSEMBLIES - INTERIOR



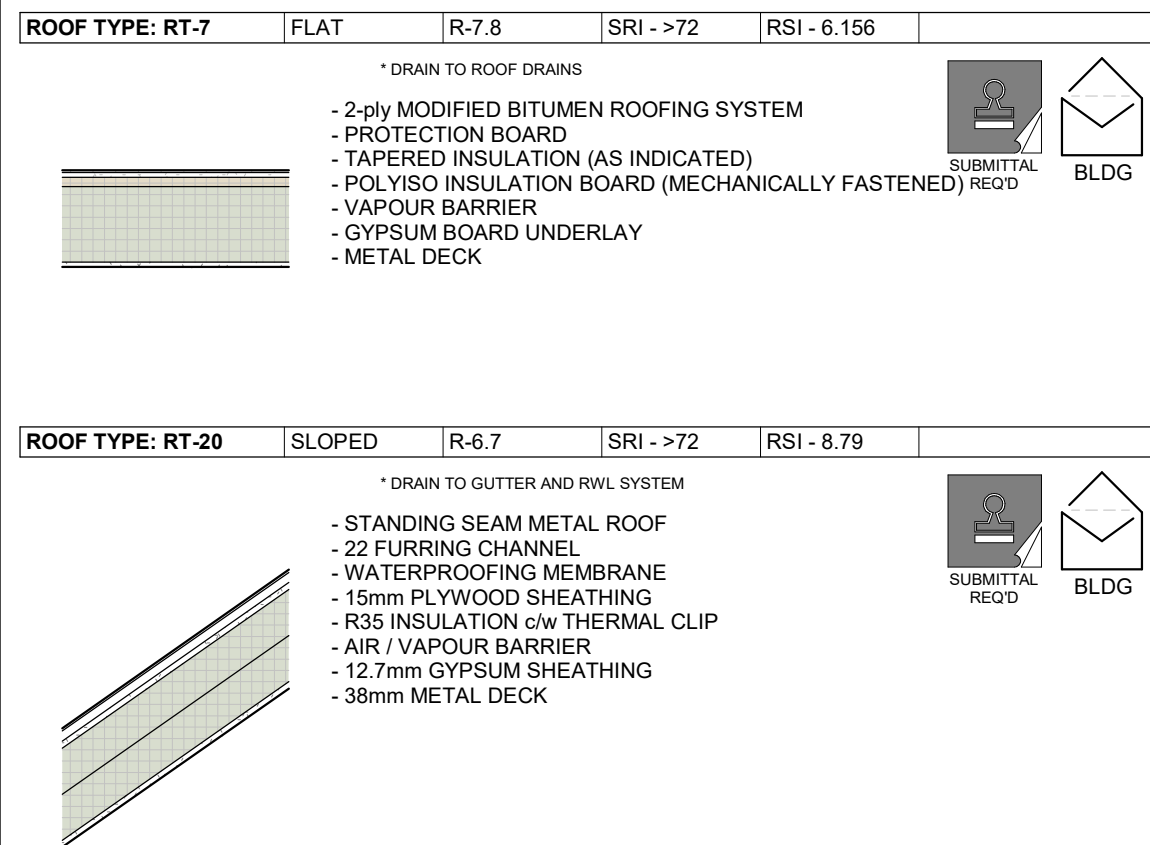
## 6 WALL ASSEMBLIES - EXTERIOR



## 5 WALL ASSEMBLIES - PARAPET



## 4 ROOF ASSEMBLIES



## 1 / A0.2

## A700 GENERAL NOTES - WALL ASSEMBLIES

## EXTERIOR WALL ASSEMBLIES

- THE SPECIFICATIONS, INSTALLATION, AND PERFORMANCE OF AIR BARRIER SYSTEMS AND VAPOUR BARRIERS MUST MEET OR EXCEED DIV. 8 PART 5 OF THE ONTARIO BUILDING CODE.
- THE REQUIREMENTS FOR AN AIR BARRIER AND A VAPOUR BARRIER ARE INTENDED TO BE PROVIDED AS CONTINUOUS PLANES WITHIN THE BUILDING ENVELOPE. ENSURE CONTINUITY OF AIR AND VAPOUR MEMBRANES BETWEEN COMPONENTS, TO ADJACENT CONSTRUCTION AND AT ALL PENETRATIONS TO PREVENT OR RETARD PASSAGE OF MOISTURE LADEN AIR AND/OR THE DIFFUSION OF WATER VAPOUR.
- EXTERIOR ASSEMBLIES NOTING STUD FRAMING SHALL BE CONSTRUCTED USING WIND-LOAD BEARING FRAMING DESIGNED TO CARRY REQUIRED LATERAL LOADS. PROVIDE ENGINEERED SHOP DRAWING PRIOR TO COMMENCEMENT OF WORK.

## INTERIOR WALL ASSEMBLIES

## LOAD BEARING PARTITIONS (INTERIOR)

WHERE A PARTITION IS A LOAD BEARING WALL, REFER TO THE STRUCTURAL DRAWINGS FOR DESIGN REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO THE COMMENCEMENT OF WORK.

## STEEL STUD FRAMED PARTITIONS (INTERIOR)

- ALL PARTITIONS ARE TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
- PROVIDE DEFLECTION DETAIL AT TOP OF ALL WALLS THAT ABUT UNDERSIDE OF DECK OR STRUCTURE. SEE ALSO TOP OF WALL DETAILS AS INDICATED.
- WHERE SOUND ATTENUATION BATTS ARE CALLED FOR ON THE WALL TYPE, SEAL PERIMETER OF WALLS AND AROUND PENETRATIONS THROUGH WALLS WITH ACOUSTIC SEALANT. APPLY CONTINUOUS ACOUSTIC SEALANT TO BOTH SIDES OF TRACK AT THE JUNCTIONS WITH FLOORS AND ROOF DECKS, AND AROUND PENETRATIONS TO PARTITIONS. RECESSED OUTLETS ARE TO BE STAGGERED SO THAT ONLY ONE OUTLET IS INSTALLED BETWEEN TWO STUDS.
- DO NOT FASTEN METAL STUDS TO CURTAIN WALL MULLIONS OR TEE BAR GRIDS.
- WHERE INTERIOR DOORS ARE CLOSE TO AN INSIDE CORNER, PROVIDE MIN. CLEARANCE FROM DOOR JAMB TO ADJACENT WALL AS INDICATED ON DETAIL TITLED 'FRAME TYPES'

## MASONRY PARTITIONS (INTERIOR)

- HEIGHT OF CONCRETE MASONRY UNIT WALLS TO BE TO UNDERSIDE OF FLOOR/ROOF DECK ABOVE UNLESS OTHERWISE NOTED.
- WHERE CONCRETE UNIT MASONRY WALLS ABUT REINFORCED CONCRETE WALLS AND PIERS, RAKE BACK MORTAR JOINT WHERE THE TWO MATERIALS MEET AND PROVIDE CONTINUOUS SEALANT

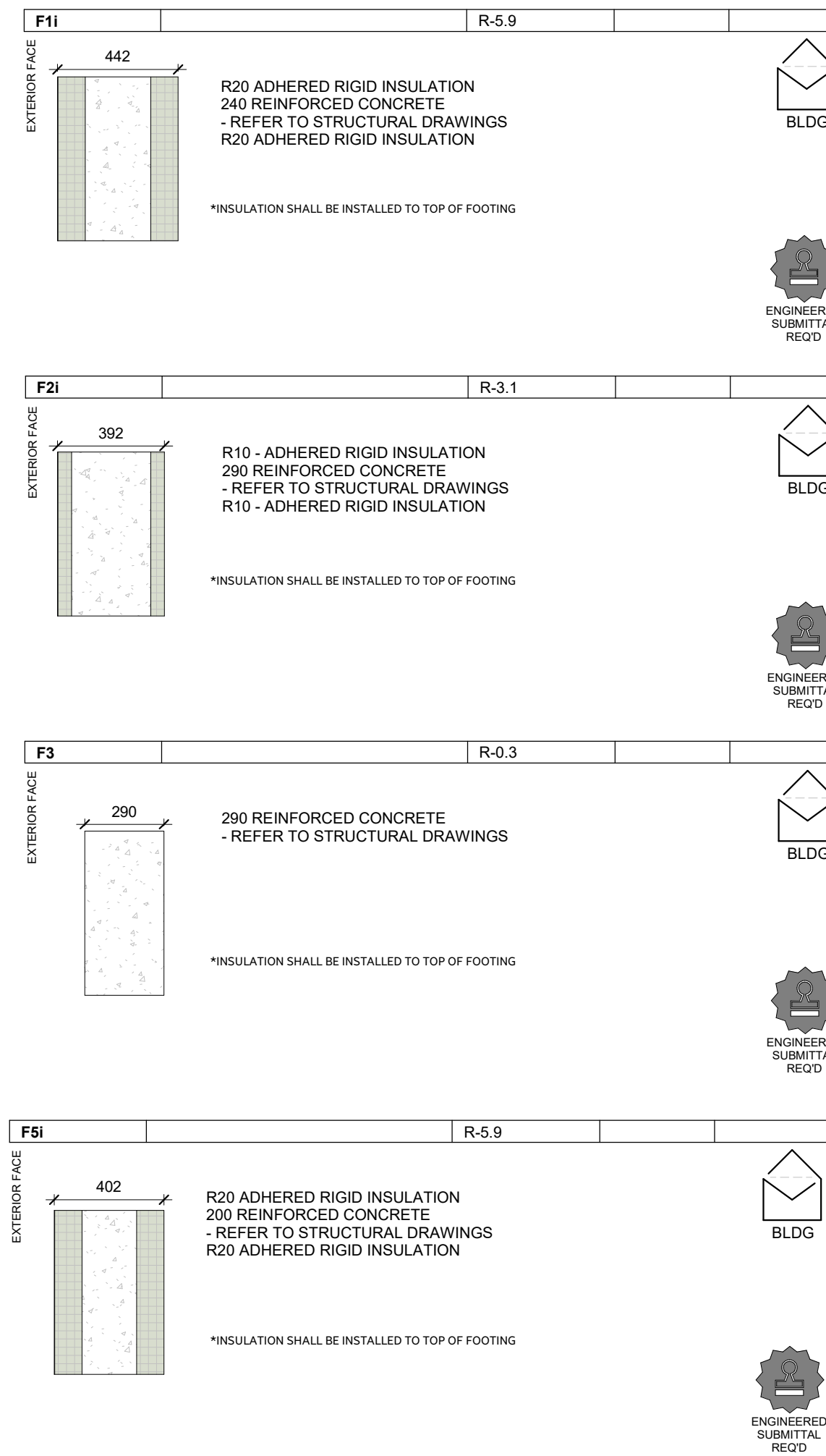
## FIRE RATED PARTITIONS (INTERIOR)

- FOR WALL ASSEMBLIES THAT BEAR THE NOTE "CONSTRUCT AS FIRE SEPARATION WHERE NOTED", THE ASSEMBLY SHALL BE CONSTRUCTED AS A FIRE SEPARATION AT THE LOCATIONS INDICATED IN THE CONTRACT DRAWINGS.
- AT RECESSED PANEL INSTALLATIONS (E.G. ELECTRICAL PANELS) WITHIN RATED WALLS PROVIDE FOR CONTINUITY OF THE REQUIRED RATING BEHIND THE PANEL. REFER TO THE ONTARIO BUILDING CODE DIVISION B, SECTION 3.1.9.2 FOR REQUIREMENTS FOR COMBUSTIBILITY OF SERVICE PENETRATIONS AND SECTION 3.1.10.2 FOR RATING OF FIREWALLS.
- WHERE FIRE RATED PARTITIONS ABUT NON-RATED PARTITIONS THE FIRE RATED ASSEMBLY SHALL BE CONTINUOUS AND UNINTERRUPTED BY THE ABUTTING WALLS TO MAINTAIN A CONTINUOUS FIRE SEPARATION.
- SEAL PERIMETER OF FIRE RATED WALLS AND AROUND PENETRATIONS THROUGH FIRE RATED WALLS WITH APPROVED FIRESTOP MATERIALS. **DO NOT** SEAL CLEARANCE SPACES WITHIN FIRE DAMPERS. SEAL ONLY IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

## BLOCKING FOR MILLWORK &amp; SPECIALTIES

- PROVIDE BLOCKING IN PARTITIONS AND WALLS (INTERIOR AND EXTERIOR) FOR THE FOLLOWING:
  - WINDOW FRAMES, MILLWORK, FIXTURES AND FITTINGS, HANDRAILS, GRAB BARS, TACKBOARDS, WHITEBOARDS, MIRRORS, WASHROOM ACCESSORIES AND OTHER ITEMS **AS REQUIRED**.

## 7 WALL ASSEMBLIES - FOUNDATION



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

## ISSUE OR REVISION

NO.	ISSUED FOR	DATE
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

YORK REGION PRS #33 RFTC  
397-21

PROJECT :

CLIENT :

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

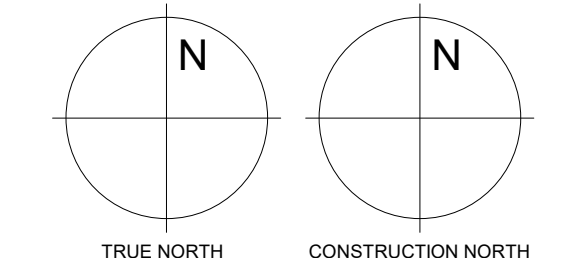
ARCHITECT  
**THOMASBROWNARCHITECTS**  
167 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

EXTERIOR &  
INTERIOR  
ASSEMBLIES

ORIENTATION

DATE  
2020-11-18

PROJECT No.

1622

DRAWING No.

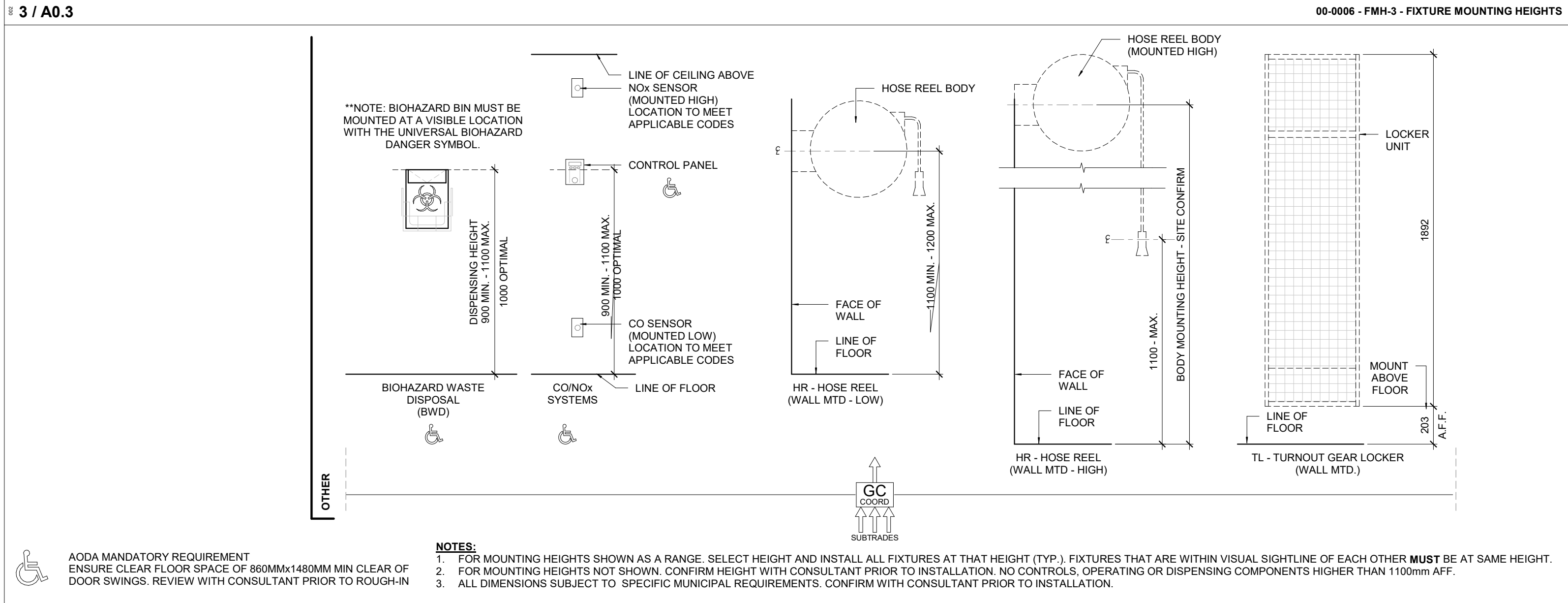
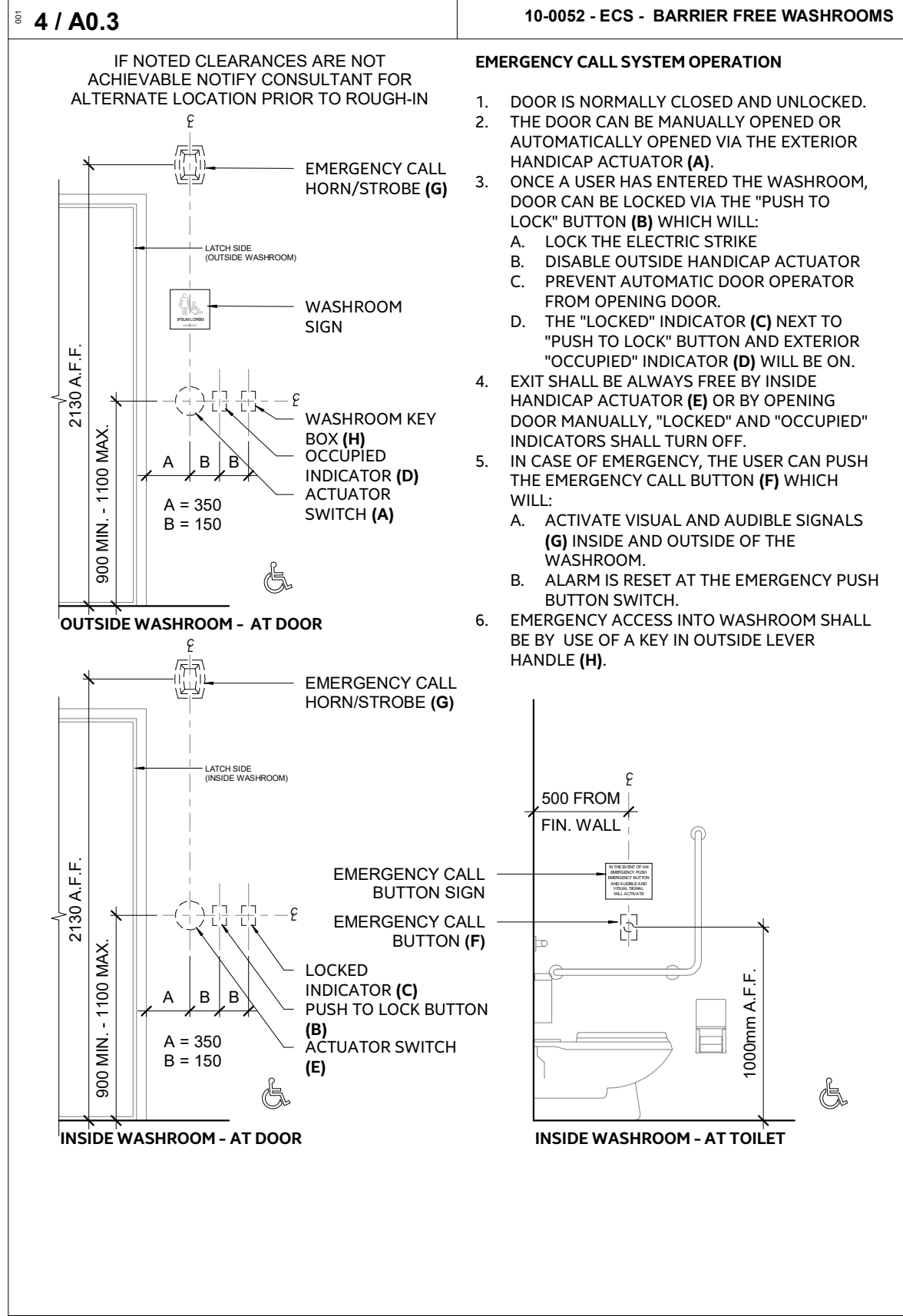
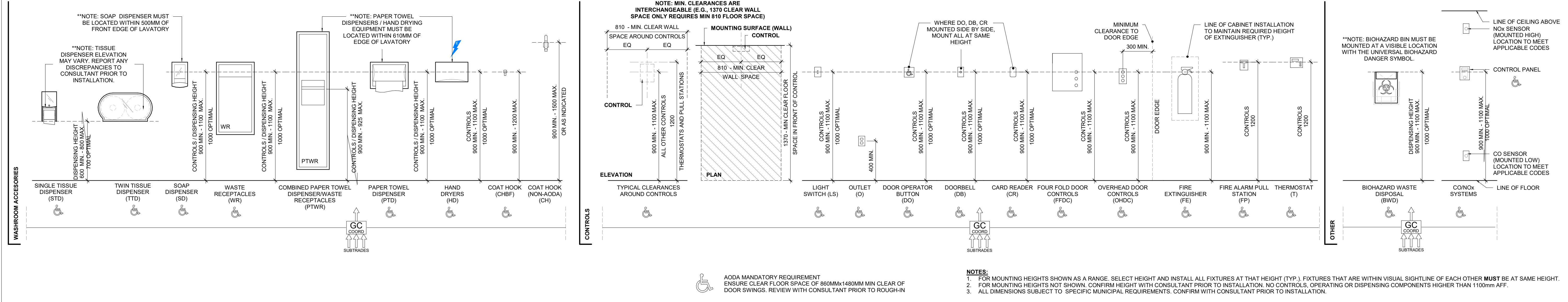
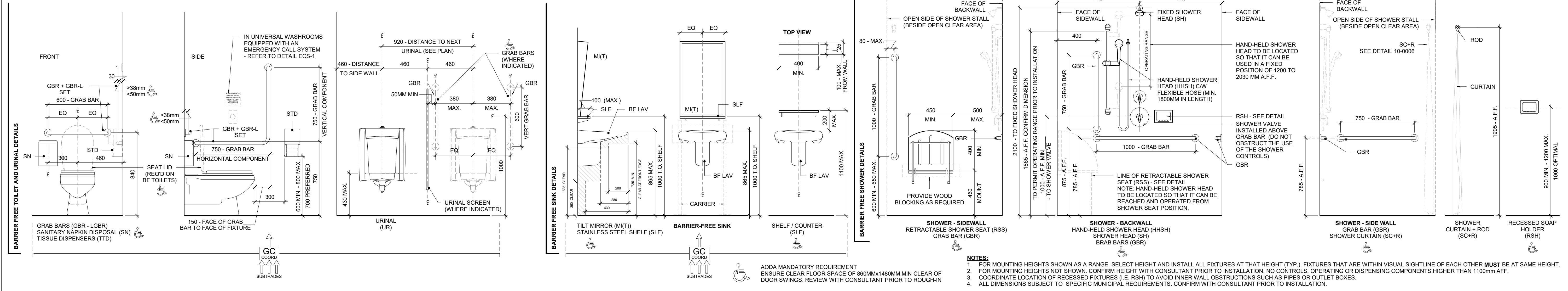
A0.2

REVISION

19

2025-11-02 9:55:12 PM





ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT :

CLIENT

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

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

PROFESSIONAL SEAL

DWG TITLE

FIXTURE MOUNTING  
HEIGHTS

ORIENTATION

DATE  
2020-11-19

PROJECT NO.

1622

DRAWING NO.

A0.3

REVISION

19

YORK REGION PRS #33 RFTC  
397-21

2960 TESTON ROAD, VAUGHAN



**8 / A1.1** 4-0050 - TOW MASONRY PARALLEL TO DECK FLUTES

**MASONRY WALL PARALLEL TO DECK FLUTES**

**FIRE RATED DETAIL**  
REF: ULC No. HW-D-0513 OR EQUIVALENT

PACK FIRESTOP MATERIAL (DECK PLUGS PREFERRED) TO FILL GAP BETWEEN TOP OF WALL AND DECK, FILLING FLUTES. SEAL EXPOSED FACES TO MAINTAIN REQUIRED FIRE RATING / SMOKE SEAL

**NON-FIRE RATED DETAIL**  
SIMILAR TO ABOVE SUBSTITUTING FIRESTOP MATERIAL WITH MINERAL WOOL (DECK PLUGS PREFERRED) AND FIRESTOP SEALANT WITH TROWELLED SEALANT

STRUCTURAL FRAMING REFER TO STRUCTURAL DRAWINGS

**NOTES:**

- TOP OF WALL DETAILS AT FIRE RATED ASSEMBLIES TO EXTEND RATING TO U/S OF DECK (REFER TO ASSEMBLIES SCHEDULE)
- ALL FIRESTOP COMPONENTS TO BE IN ACCORDANCE WITH SPECIFICATIONS

**9 / A1.1** 4-0051 - TOW MASONRY PERPENDICULAR TO DECK FLUTES

**MASONRY WALL PERPENDICULAR TO DECK FLUTES**

**FIRE RATED DETAIL**  
REF: ULC No. HW-D-0513 OR EQUIVALENT

PACK FIRESTOP MATERIAL (DECK PLUGS PREFERRED) TO FILL GAP BETWEEN TOP OF WALL AND DECK, FILLING FLUTES. SEAL EXPOSED FACES TO MAINTAIN REQUIRED FIRE RATING / SMOKE SEAL

**NON-FIRE RATED DETAIL**  
SIMILAR TO ABOVE SUBSTITUTING FIRESTOP MATERIAL WITH MINERAL WOOL (DECK PLUGS PREFERRED) AND FIRESTOP SEALANT WITH TROWELLED SEALANT

**NOTES:**

- TOP OF WALL DETAILS AT FIRE RATED ASSEMBLIES TO EXTEND RATING TO U/S OF DECK (REFER TO ASSEMBLIES SCHEDULE)
- ALL FIRESTOP COMPONENTS TO BE IN ACCORDANCE WITH SPECIFICATIONS

**10 / A1.1** 4-0052 - TOW MASONRY PERPENDICULAR TO OWSJ / BEAM

**MASONRY WALL PERPENDICULAR TO OWSJ AND / OR BEAM**

**FIRE RATED DETAIL**  
REF: ULC No. HW-D-0513 OR EQUIVALENT

PACK FIRESTOP MATERIAL (DECK PLUGS PREFERRED) TO FILL GAP BETWEEN TOP OF JOIST / BEAM AND DECK, FILLING FLUTES. SEAL EXPOSED FACES TO MAINTAIN REQUIRED FIRE RATING / SMOKE SEAL

**NON-FIRE RATED DETAIL**  
SIMILAR TO ABOVE SUBSTITUTING FIRESTOP MATERIAL WITH MINERAL WOOL AND FIRESTOP SEALANT WITH TROWELLED SEALANT

**NOTES:**

- TOP OF WALL DETAILS AT FIRE RATED ASSEMBLIES TO EXTEND RATING TO U/S OF DECK (REFER TO ASSEMBLIES SCHEDULE)
- ALL FIRESTOP COMPONENTS TO BE IN ACCORDANCE WITH SPECIFICATIONS

**11 / A1.1** 4-0053 - TOW MASONRY PARALLEL TO OWSJ / BEAM

**MASONRY WALL PARALLEL TO OWSJ AND / OR BEAM**

**FIRE RATED DETAIL**  
REF: ULC No. HW-D-0513 OR EQUIVALENT

PACK FIRESTOP MATERIAL (DECK PLUGS PREFERRED) TO FILL GAP BETWEEN TOP OF JOIST / BEAM AND DECK, FILLING FLUTES. SEAL EXPOSED FACES TO MAINTAIN REQUIRED FIRE RATING / SMOKE SEAL

**NON-FIRE RATED DETAIL**  
SIMILAR TO ABOVE SUBSTITUTING FIRESTOP MATERIAL WITH MINERAL WOOL (DECK PLUGS PREFERRED) AND FIRESTOP SEALANT WITH TROWELLED SEALANT

**NOTES:**

- TOP OF WALL DETAILS AT FIRE RATED ASSEMBLIES TO EXTEND RATING TO U/S OF DECK (REFER TO ASSEMBLIES SCHEDULE)
- ALL FIRESTOP COMPONENTS TO BE IN ACCORDANCE WITH SPECIFICATIONS

**3 / A1.1** 7-0020 - TOW FIRE RATED - METAL TRACK DEFLECTION DETAIL

**FIRE RATED DETAIL - MAINTAIN REQUIRED FIRE RESISTANCE RATING OVER ENTIRE ASSEMBLY**

**4 / A1.1** 7-0021 - TOW METAL TRACK DEFLECTION DETAIL

**FIRE RATED DETAIL - MAINTAIN REQUIRED FIRE RESISTANCE RATING OVER ENTIRE ASSEMBLY**

**5 / A1.1** 7-0022 - TOW EXTERIOR WALLS - DECK PARALLEL TO DECK FLUTES

**EXTERIOR WALL PARALLEL TO DECK FLUTES**

**NOTES:**

- DETAIL APPLIES TO ALL AREAS WHERE CONDITION EXISTS REGARDLESS OF WALL TYPE

**6 / A1.1** 7-0023 - TOW EXTERIOR WALLS - DECK PERPENDICULAR TO DECK FLUTES

**EXTERIOR WALL PERPENDICULAR TO DECK FLUTES**

**NOTES:**

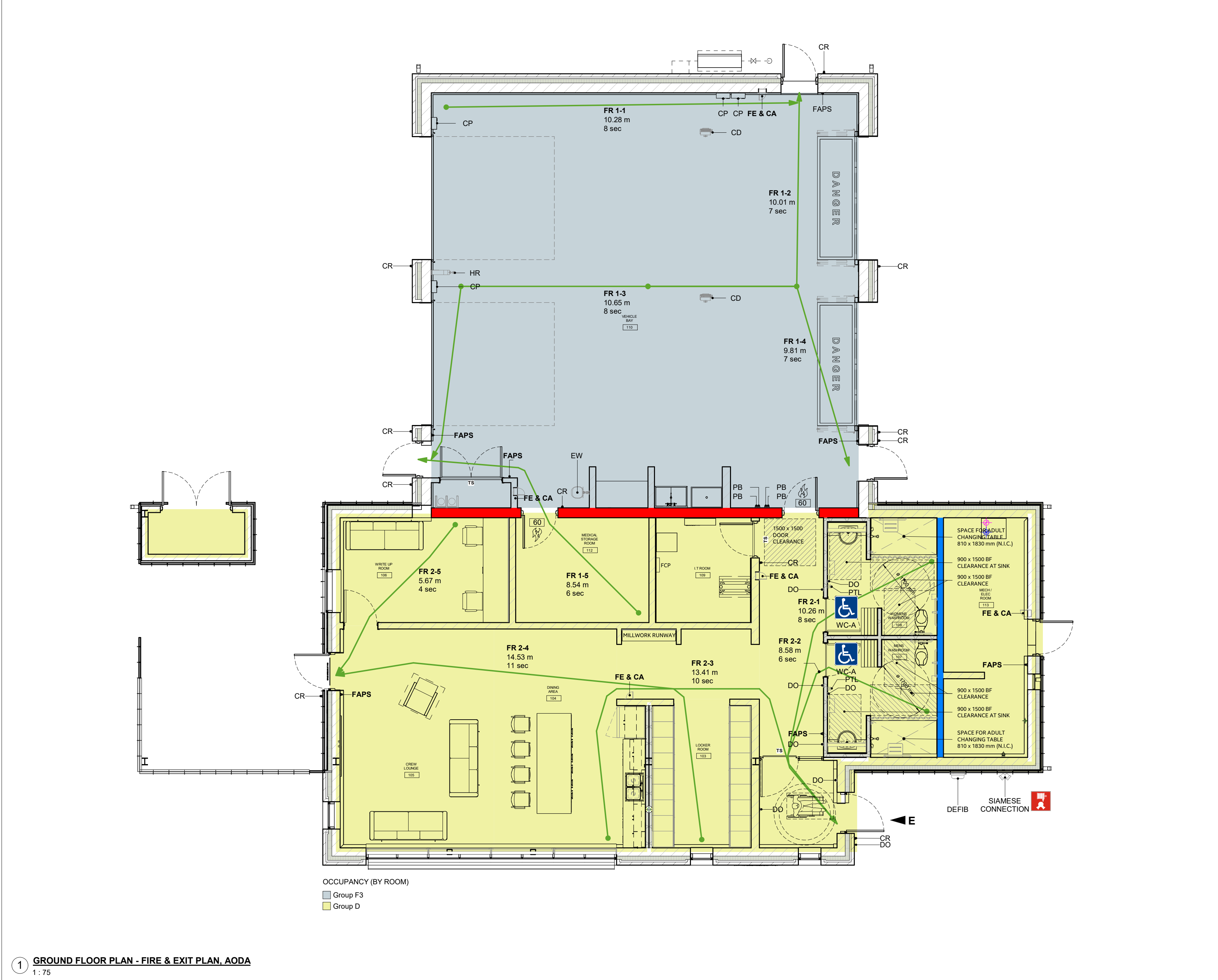
- DETAIL APPLIES TO ALL AREAS WHERE CONDITION EXISTS REGARDLESS OF WALL TYPE

**7 / A1.1** 7-0029 - FD-1 - TYPICAL FIRE DAMPER INSTALLATION

**NOTES:**

- DETAIL APPLIES TO ALL SPECIFIED DAMPER TYPES.
- VERTICAL INSTALLATION SHOWN, DETAIL ALSO APPLIES TO HORIZONTAL INSTALLATIONS
- THE INTENT OF THIS DETAIL IS TO PROVIDE SUPPLEMENTARY INFORMATION TO MANUFACTURERS' INSTRUCTIONS. ALL DAMPERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS
- NO MATERIAL WITHIN EXPANSION SPACE. NO SEALANTS AT RETAINING ANGLES UNLESS DIRECTED BY AUTHORITIES HAVING JURISDICTION. IF SO DIRECTED, PROVIDE ONLY MANUFACTURER APPROVED SEALANT

CONFIRM ASSEMBLY RATING PRIOR TO INSTALLATION. DAMPER RATING MUST MATCH ASSEMBLY RATING (TYP.)



**2 / A1.1** 10-0060 - FE-FIRE EXTINGUISHER

**FIRE EXTINGUISHER AND CABINET SPECIFICATIONS**

1 EACH FIRE EXTINGUISHER CABINET SHALL BE NATIONAL FIRE EQUIPMENT MODEL # 100RS RECESSED 1.6 MM PRIME COATED STEEL CABINET WITH 2.8 MM GAUGE DOOR AND TRIM, 4.8 MM THICK LEXAN VIEWING PANEL AND CORBIN LATCH.

2 SUPPLY IN EACH F.E. CABINET AND WHERE SHOWN, U.L.C. #3A/10BC (2.27 KG) RATED PRESSURE POWER MULTI-PURPOSE FIRE EXTINGUISHER COMPLETE WITH ENAMEL STEEL JACKET, PRESSURE GAUGE, LOCKING PIN, HOSE AND NOZZLE, HANGER BRACKET.

3 PROVIDE U.L.C. #3A-10BC (2.27 KG) CLASS A, B, AND C FIRE CLASSIFICATION RATED PRESSURE POWER MULTI-PURPOSE FIRE EXTINGUISHER WITH BAKED ENAMEL STEEL CASING, PRESSURE GAUGE AND HANGER; (TOTAL OF 6 UNIT REQUIRED).

**FIRE EXIT TRAVEL DISTANCE**

FROM ROOM	TO ROOM	ID	LENGTH	SPEED	TIME
VEHICLE BAY 110	VEHICLE BAY 110	FR 1-1	10.28 m	4.8 km/h	7.7 s
VEHICLE BAY 110	VEHICLE BAY 110	FR 1-2	10.01 m	4.8 km/h	7.5 s
VEHICLE BAY 110	VEHICLE BAY 110	FR 1-3	10.65 m	4.8 km/h	7.9 s
VEHICLE BAY 110	VEHICLE BAY 110	FR 1-4	9.81 m	4.8 km/h	7.3 s
MEDICAL STORAGE ROOM 112	VEHICLE BAY 110	FR 1-5	8.54 m	4.8 km/h	6.4 s
WOMENS WASHROOM 108	MECH / ELEC ROOM 113	FR 2-1	10.26 m	4.8 km/h	7.6 s
MENS WASHROOM 107	MECH / ELEC ROOM 113	FR 2-2	8.58 m	4.8 km/h	6.4 s
DINING AREA 104	MECH / ELEC ROOM 113	FR 2-3	13.41 m	4.8 km/h	10.0 s
LOCKER ROOM 103	CREW LOUNGE 105	FR 2-4	14.53 m	4.8 km/h	10.8 s
WRITE UP ROOM 106	CREW LOUNGE 105	FR 2-5	5.67 m	4.8 km/h	4.2 s

**LEGEND - FIRE PLAN**

SYMBOL	DESCRIPTION
E	ENTRANCE/EXIT
SP	SIAMESE FIRE DEPARTMENT CONNECTION
AS	AUTOMATIC SPRINKLER - ENTIRE BUILDING
FCP	FIRE ALARM CONTROL PANEL
GAP	GENERATOR ANNUNCIATOR PANEL
FAPS	FIRE ALARM PULL STATION
SD	SINGLE / DOUBLE EMERGENCY LIGHT, BATTERY-POWERED
IL	ILLUMINATED EXIT SIGN, SINGLE FACE
ST	STROBE
SDCO	COMBINED SMOKE/CO DETECTOR
FEC	FIRE EXTINGUISHER CABINET c/w FIRE EXTINGUISHER
1.5hr	1.5hr FIRE SEPARATION
1hr	1hr FIRE SEPARATION
45min	45min FIRE SEPARATION
BF	BF PATH OF TRAVEL MIN. 1100

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

**ISSUE OR REVISION**

NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

**YORK REGION PRS #33 RFTC**  
**397-21**

2960 TESTON ROAD, VAUGHAN

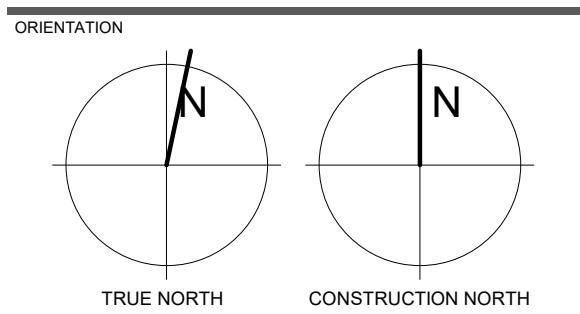
PROJECT: CLIENT:

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

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

PROFESSIONAL SEAL

DWG TITLE  
**FIRE, LIFE SAFETY AND AODA REQUIREMENTS**



DATE  
**2020-11-18**

PROJECT No.  
**1622**

DRAWING No.  
**A1.1**

REVISION  
**19**

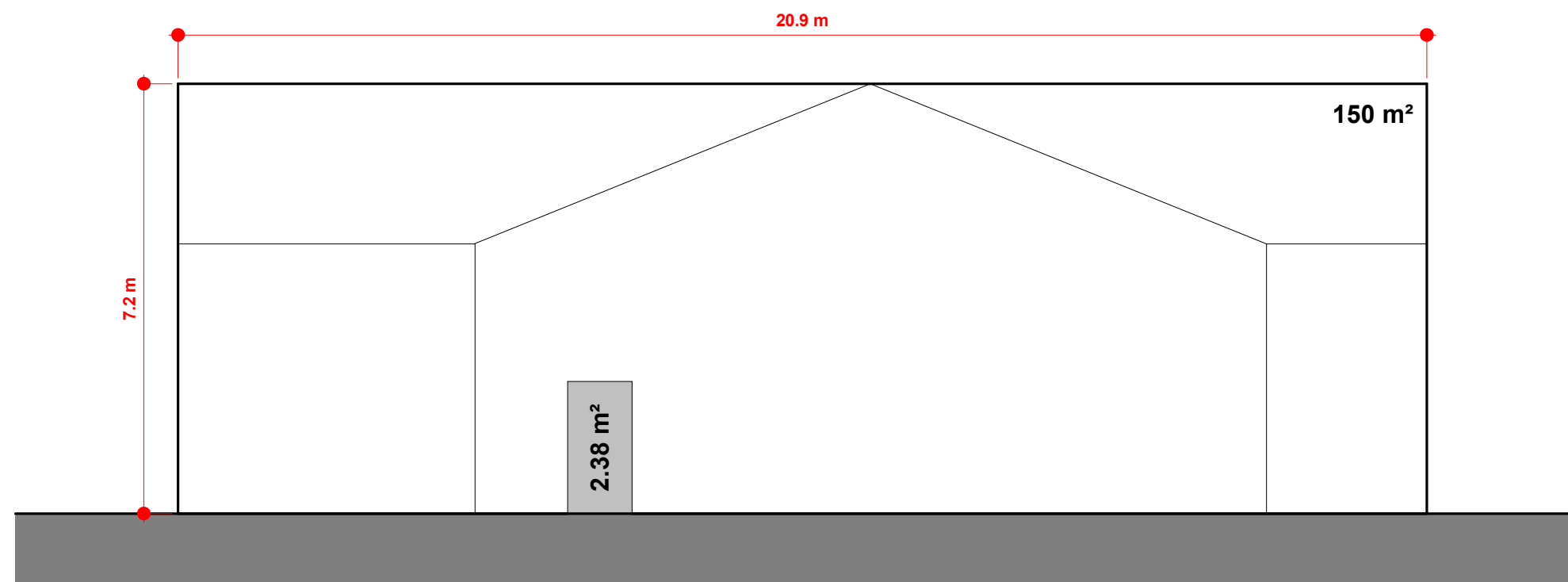
2025-11-02 9:55:16 PM



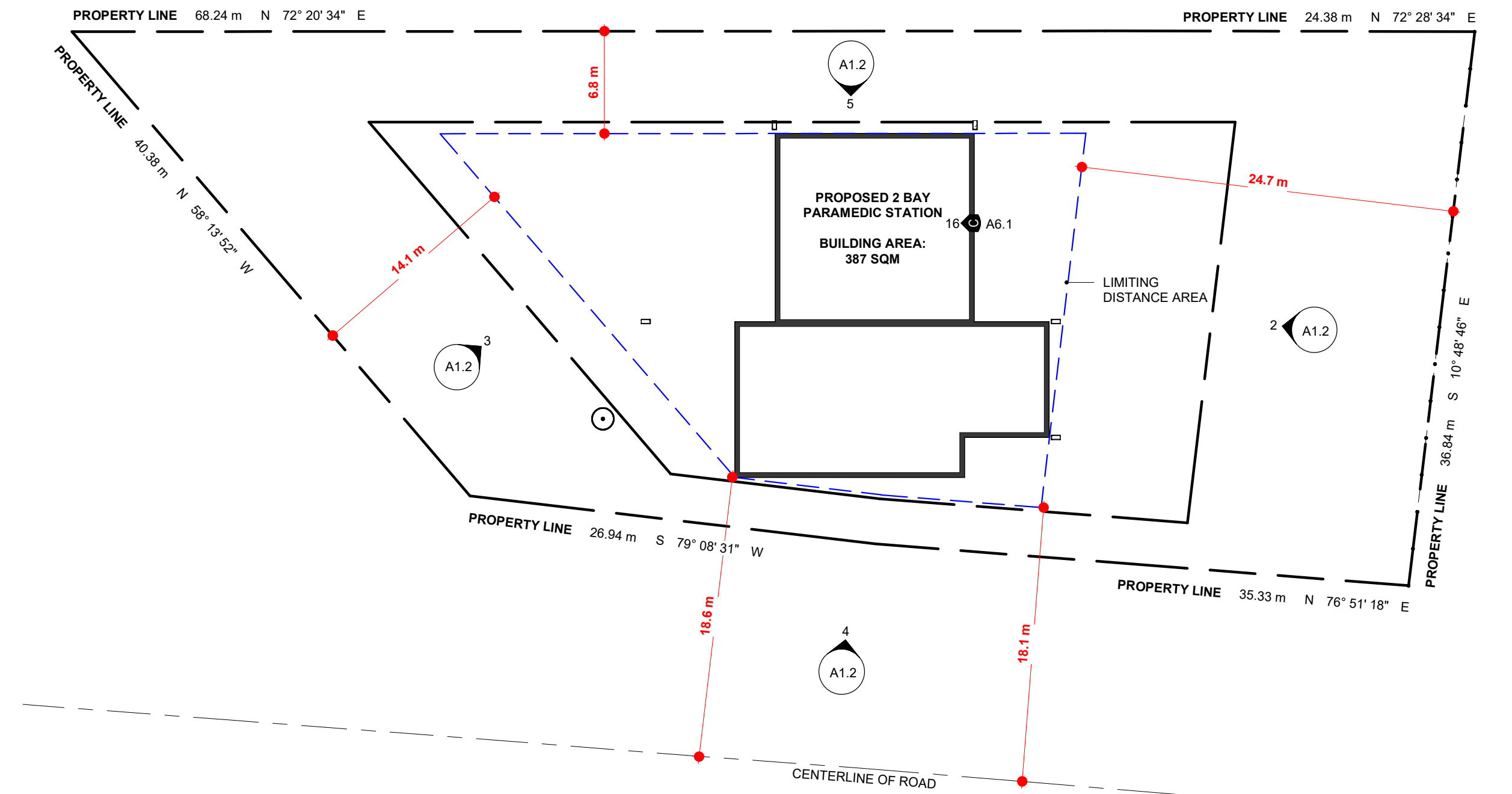
**ISSUE OR REVISION**

Actual Exposing Building Face (m²):	150.0	(1)	EBF: Exposing building face		
Actual Limiting Distance (m):	6.8	(2)	LD: Limiting distance		
Unprotected Wall Opening Area (m²):	2.4	(3)	UPO: Unprotected opening percentage (max.)		
Exposing Building Face Length (m):	20.9	(4)			
Exposing Building Face Height (m):	7.2	(5)	Limiting Distances from the Tables		
Actual Ratio (L/H OR H/L)	20.853:7.174	(6)	Less Than and More Than		
Permitted Ratio (L/H OR H/L)	N/A	(7)	the Actual Limiting Distance from the Drawings.		
Fire Resistance Rating	45min		LD_1 (< 6.758 m actual) LD_2 (> 6.758 m actual)		
			<table><tr><td>6.0</td><td>7.0</td></tr></table>	6.0	7.0
6.0	7.0				
			Limiting Distance from OBC Tables		

	Area of Exposing Building Face from OBC Tables	Max. Area of Unprotected Openings at LD_1	Max. Area of Unprotected Openings at LD_2
EBF_1 (< 150 m2 actual):	100.0	68.0	88.0
EBF_2 (> 150 m2 actual):	150.0	52.0	66.0
Intermediate Interpolated Unprotected Opening % Values:		52.0	66.0
Final Interpolated Unprotected Opening % Value:		62.6%	
Unprotected Opening % Value Proposed:		1.6%	



5 **LD - NORTH ELEVATION**  
1 : 100



1 **SITE PLAN - LIMITING DISTANCE**  
1 : 300

ONTARIO BUILDING CODE DATA MATRIX

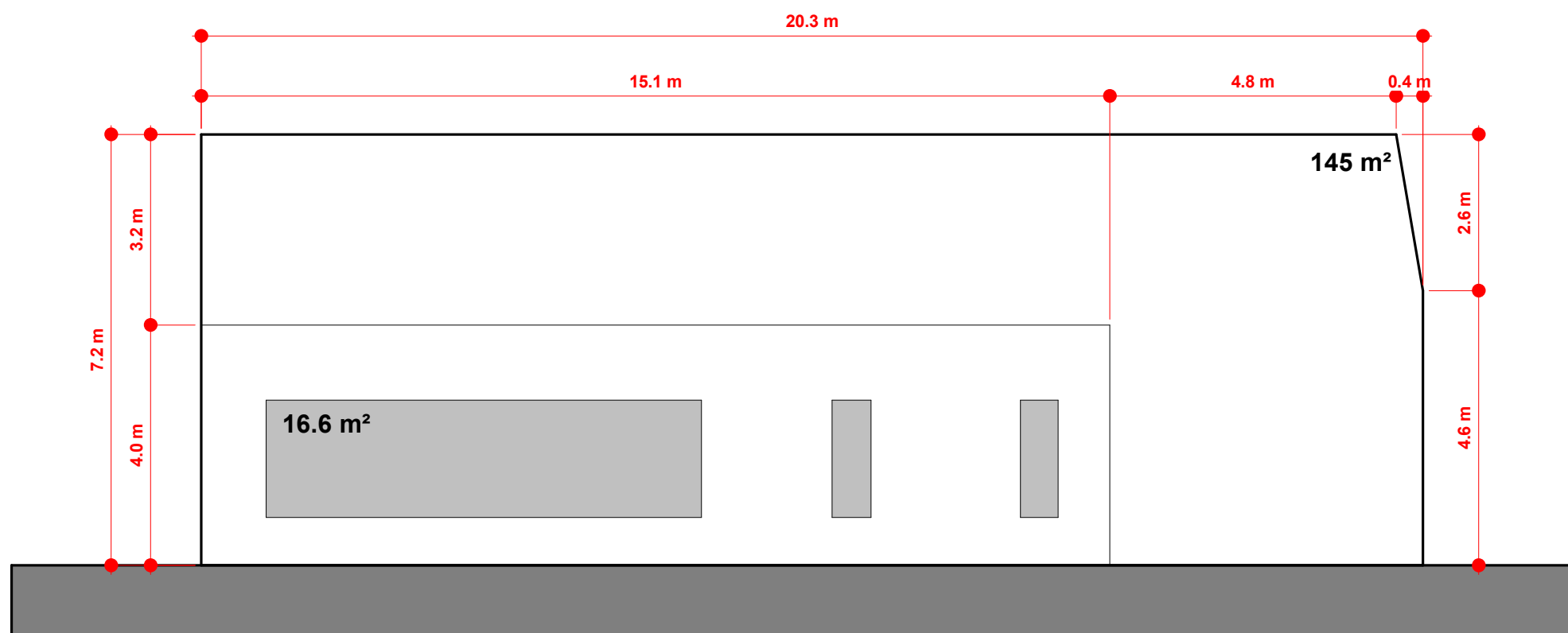
---

SPATIAL SEPARATION INTERPOLATION SUPPLEMENT OBC 3.2.3.1.

## EAST BUILDING ELEVATION

Actual Exposing Building Face (m²):	145.0	(1)	EBF: Exposing building face		
Actual Limiting Distance (m):	18.6	(2)	LD: Limiting distance		
Unprotected Wall Opening Area (m):	16.6	(3)	UPO: Unprotected opening percentage (max.)		
Exposing Building Face Length	20.3	(4)			
Exposing Building Face Height	7.2	(5)	Limiting Distances from the Tables		
Actual Ratio (L/H OR H/L)	20.329:7.174	(6)	Less Than and More Than		
Permitted Ratio (L/H OR H/L)	N/A	(7)	the Actual Limiting Distance from the Drawings.		
Fire Resistance Rating	N/R		LD_1 (< 18.59 m actual) LD_2 (> 18.59 m actual)		
			<table><tr><td>9.0</td><td>19.0</td></tr></table>	9.0	19.0
9.0	19.0				
			Limiting Distance from OBC Tables		

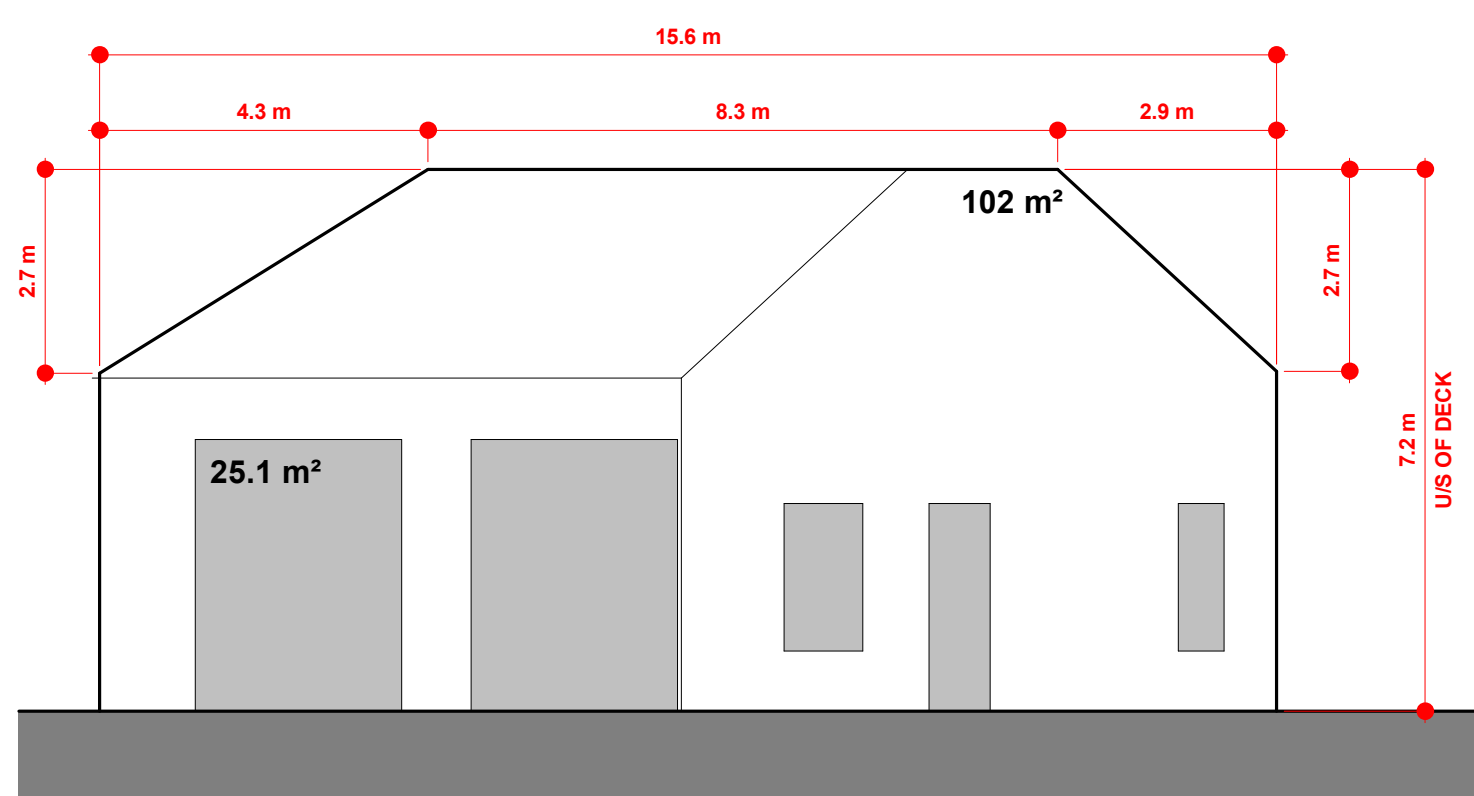
	Area of Exposing Building Face from OBC Tables	Max. Area of Unprotected Openings at LD_1	Max. Area of Unprotected Openings at LD_2
EBF_1 (< 145 m2 actual):	100.0	100.0	100.0
EBF_2 (> 145 m2 actual):	150.0	100.0	100.0
Intermediate Interpolated Unprotected Opening % Values:		100.0	100.0
Final Interpolated Unprotected Opening % Value:		100.0%	
Unprotected Opening % Value Proposed:		11.4%	



4 **LD - SOUTH ELEVATION**  
1 : 100

Actual Exposing Building Face (m <sup>2</sup> ):	<b>102.0</b>	(1)	EBF: Exposing building face
Actual Limiting Distance (m):	<b>14.1</b>	(2)	LD: Limiting distance
Unprotected Wall Opening Area (m <sup>2</sup> ):	<b>25.1</b>	(3)	UPO: Unprotected opening percentage (max.)
Exposing Building Face Length	<b>15.6</b>	(4)	
Exposing Building Face Height	<b>7.2</b>	(5)	Limiting Distances from the Tables
Actual Ratio (L/H OR H/L)	<b>15.578:7.174</b>	(6)	Less Than and More Than
Permitted Ratio (L/H OR H/L)	<b>N/A</b>	(7)	the Actual Limiting Distance from the Drawings.
Fire Resistance Rating	<b>N/R</b>		LD_1 (< 14.062 m...) LD_2 (> 14.062 m...)
			<b>9.0</b> <b>15.0</b> Limiting Distance from OBC Tables

	Area of Exposing Building Face from OBC Tables	Max. Area of Unprotected Openings at LD_1	Max. Area of Unprotected Openings at LD_2
EBF_1 (< 102 m2 actual):	100.0	100.0	100.0
EBF_2 (> 102 m2 actual):	150.0	100.0	100.0
Intermediate Interpolated Unprotected Opening % Values:		100.0	100.0
Final Interpolated Unprotected Opening % Value:		100.0%	
Unprotected Opening % Value Proposed:		24.6%	



③ **LD - WEST ELEVATION**  
1 : 100

Actual Exposing Building Face (m²):	<b>146.7</b>	(1)	EBF: Exposing building face
Actual Limiting Distance (m):	<b>24.7</b>	(2)	LD: Limiting distance
Unprotected Wall Opening Area (m²):	<b>33.8</b>	(3)	UPO: Unprotected opening percentage (max.)
Exposing Building Face Length	<b>22.7</b>	(4)	
Exposing Building Face Height	<b>7.2</b>	(5)	
Actual Ratio (L/H or H/L)	<b>22.7:7.174</b>	(6)	
Permitted Ratio (L/H or H/L)	<b>N/A</b>	(7)	
Fire Resistance Rating	<b>N/R</b>		

Limiting Distances from the Tables

Less Than and More Than

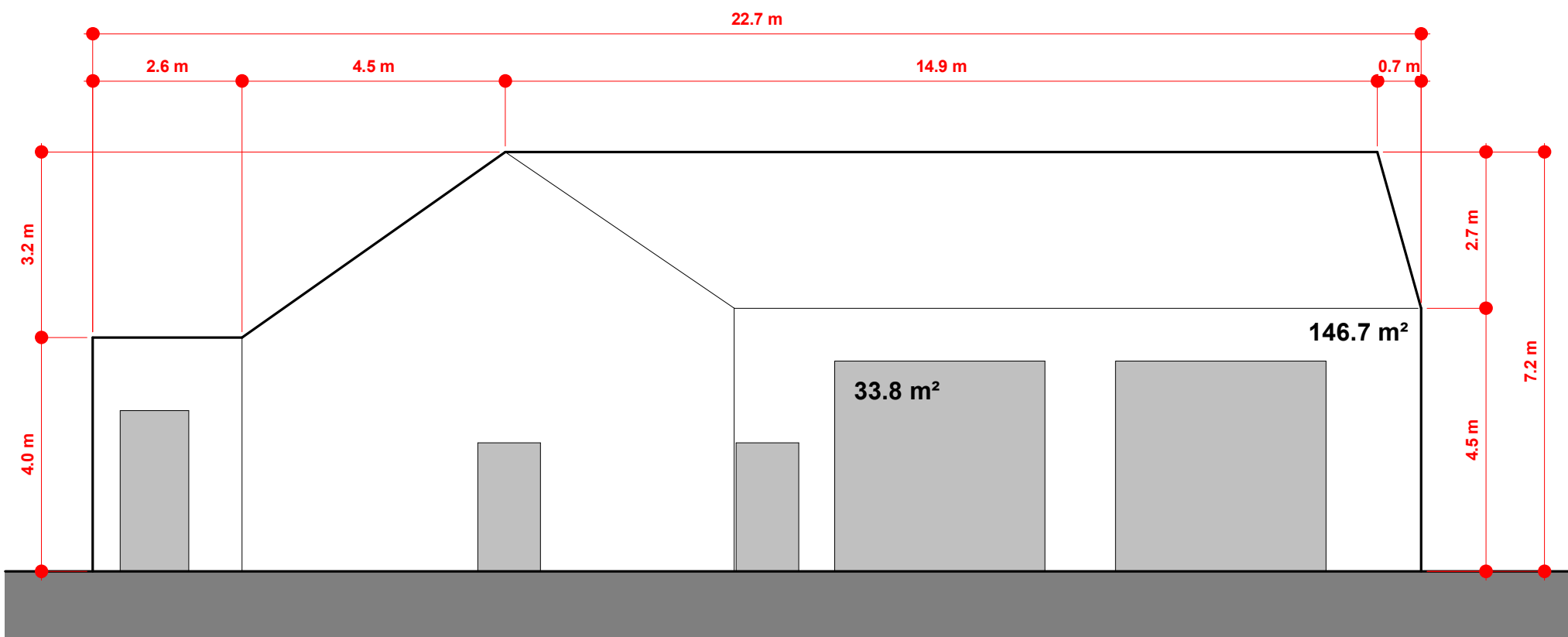
the Actual Limiting Distance from the Drawings.

LD\_1 (< 24.709 m) ... LD\_2 (> 24.709 m) ...

<b>9.0</b>	<b>25.0</b>
------------	-------------

Limiting Distance from OBC Tables

	Area of Exposing Building Face from OBC Tables	Max. Area of Unprotected Openings at LD_1	Max. Area of Unprotected Openings at LD_2
EBF_1 (< 146.7 m2 actual):	100.0	100.0	100.0
EBF_2 (> 146.7 m2 actual):	150.0	100.0	100.0
Intermediate Interpolated Unprotected Opening % Values:		100.0	100.0
Final Interpolated Unprotected Opening % Value:		100.0%	
Unprotected Opening % Value Proposed:		23.0%	



② **LD - EAST ELEVATION**  
1 : 100

PROJECT :

**CLIENT**

ARCHITECT

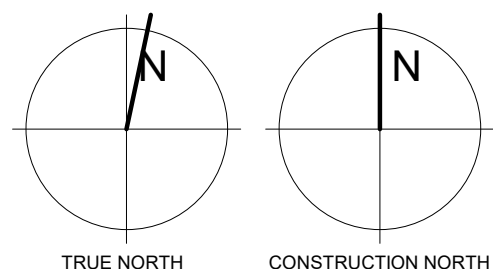
**THOMASBROWNARCHITECTS**  
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

## OBC LIMITING DISTANCE REVIEW

## ORIENTATION



DATE 2020-11-18

PROJECT No. \_\_\_\_\_

1622

DRAWING No.

## A1.2

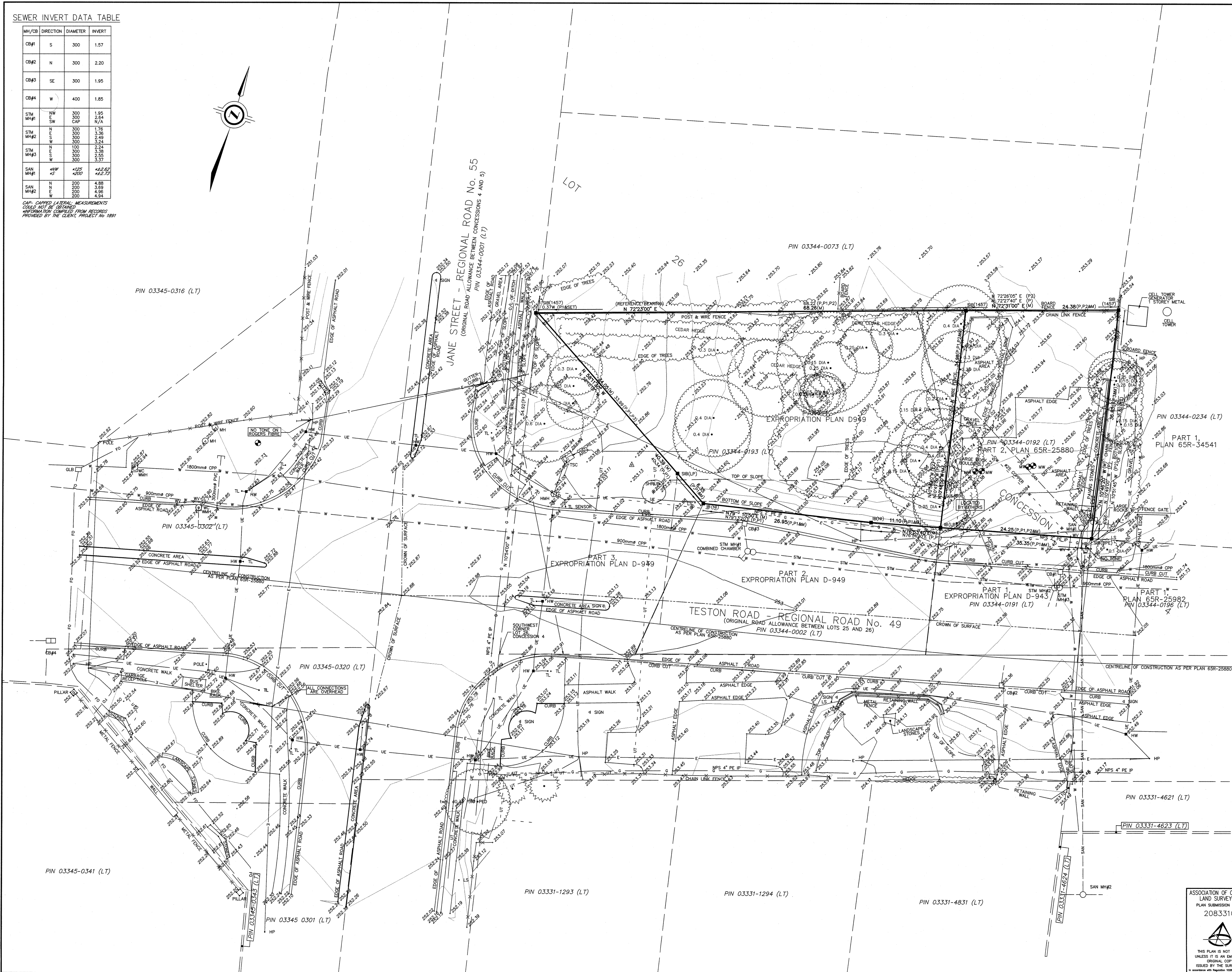
2960 TESTON ROAD, VAUGHAN



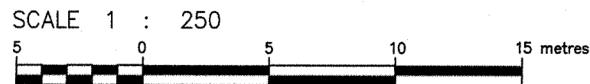
SEWER INVERT DATA TABLE

MH/CB	DIRECTION	DIAMETER	INVERT
CB#1	S	300	1.57
CB#2	N	300	2.20
CB#3	SE	300	1.95
CB#4	W	400	1.85
STM MH#1	NW	300	1.95
STM MH#1	SW	300	2.54
STM MH#2	N	300	1.78
STM MH#2	W	300	3.36
STM MH#2	W	300	2.44
STM MH#3	N	100	2.24
STM MH#3	W	300	3.36
STM MH#3	W	300	2.26
STM MH#3	W	300	3.37
SAN MH#1	NW	425	222.82
SAN MH#1	SW	425	222.71
SAN MH#2	N	200	4.88
SAN MH#2	N	200	3.69
SAN MH#2	W	200	4.86
SAN MH#2	W	200	4.94

CAN. CHIPPED MATERIAL MEASUREMENTS  
COULD NOT BE OBTAINED.  
INFORMATION COMPILED FROM RECORDS  
PROVIDED BY THE CLIENT. PROJECT NO. 1891



PLAN OF SURVEY OF  
**PART OF LOT 26**  
**CONCESSION 4**  
GEOGRAPHIC TOWNSHIP OF VAUGHAN  
NOW IN THE  
**CITY OF VAUGHAN**  
REGIONAL MUNICIPALITY OF YORK



J. D. BARNES LIMITED  
© COPYRIGHT 2019

**METRIC** DISTANCES AND ELEVATIONS SHOWN ON THIS PLAN ARE IN METRES  
AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

**NOTES**

BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS,  
UTM ZONE 17, NAD 83 (CSRS) (2010.0).

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY  
THE COMBINED SCALED FACTOR OF 0.999735.

FOR BEARING COMPARISONS, A ROTATION OF 1°01'20" COUNTER-CLOCKWISE WAS  
APPLIED TO BEARINGS ON P AND P1

FOR BEARING COMPARISONS, A ROTATION OF 1°02'55" COUNTER-CLOCKWISE WAS  
APPLIED TO BEARINGS ON P2

ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM(CVD-28.78)  
AND ARE DERIVED FROM THE CITY OF VAUGHAN BENCH MARK NO. 34-9  
HAVING A PUBLISHED ELEVATION OF 234.384 METRES

**LEGEND**

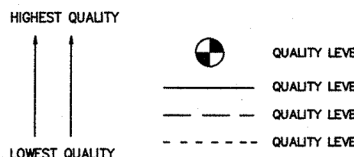
■	DENOTES SURVEY MONUMENT FOUND
□	DENOTES SURVEY MONUMENT SET
SIB	DENOTES STANDARD IRON BAR
IB	DENOTES IRON BAR
M	DENOTES MEASURED
P	DENOTES PLAN 65R-25880
P1	DENOTES EXPROPRIATION PLAN D-949
P2	DENOTES SURVEYORS REAL PROPERTY REPORT BY R.G. McRIBBON LTD. DATED
P3	DENOTES PLAN 65R-34541
LP	DENOTES LLOYD & PURCELL LTD. O.L.S.
1457	DENOTES R.J. STEWART, O.L.S.
NI	DENOTES NOT IDENTIFIABLE
JOB	DENOTES J.D. BARNES LIMITED
CB	DENOTES SINGLE CATCHBASIN
DCB	DENOTES DOUBLE CATCHBASIN
HW	DENOTES HANDWELL
MH	DENOTES MANHOLE
STM MH	DENOTES STORM MANHOLE
WMH	DENOTES WATER MANHOLE
HP	DENOTES HYDRO POLE
LS	DENOTES LIGHT STANDARD
TSC	DENOTES TRAFFIC SIGNAL CONTROL
TL	DENOTES TRAFFIC SIGNAL
H	DENOTES FIRE HYDRANT
WV	DENOTES WATER VALVE
C/L	DENOTES CENTERLINE
MW	DENOTES MONITORING WELL
DE	DENOTES DECIDUOUS TREE
MB	DENOTES MAILBOX
STW	DENOTES UNDERGROUND STORM SEWER
G	DENOTES UNDERGROUND GAS LINE
W	DENOTES UNDERGROUND WATER LINE
UE	DENOTES UNDERGROUND HYDRO LINE
E	DENOTES OVERHEAD HYDRO LINE
UT	DENOTES UNDERGROUND TELEPHONE LINE
FO	DENOTES UNDERGROUND FIBRE OPTIC LINE
T	DENOTES OVERHEAD TELEPHONE LINE
GLB	DENOTES GROUND LEVEL BOX
OHM	DENOTES HYDRO MANHOLE
PE	DENOTES POLYETHYLENE FEEDSTOCK
NES	DENOTES NOMINAL PIPE SIZE
PE IP	DENOTES POLYETHYLENE INTERMEDIATE PRESSURE
PVC	DENOTES POLYVINYL CHLORIDE
CPP	DENOTES CONCRETE PRESSURE PIPE

ALL SET SIBS AND PB MONUMENTS WERE USED DUE TO LACK OF OVERBURDEN  
AND/OR PROXIMITY OF UNDERGROUND UTILITIES IN ACCORDANCE WITH  
SECTION 11 (4) OF OREG. 522/91

**UNDERGROUND UTILITY NOTES**

THE UTILITY DATA DEPICTED ON THIS DRAWING WERE ACQUIRED IN ACCORDANCE  
WITH ASCE STANDARD 38-02. THE INFORMATION IS SHOWN BY ATTRIBUTED QUALITY  
LEVELS WHICH ARE DEFINED AS FOLLOWS:

**DATA QUALITY LEVEL**



QUALITY LEVEL "A" - INFORMATION OBTAINED BY ACTUAL PHYSICAL EXPOSURE  
OF TARGETED UTILITIES AND SUBSEQUENT MEASUREMENT OF THE EXPOSED  
PRECISE HORIZONTAL AND VERTICAL POSITION.

QUALITY LEVEL "B" - INFORMATION OBTAINED USING GEOPHYSICAL LOCATE  
TECHNIQUES TO IDENTIFY THE EXISTENCE AND APPROXIMATE HORIZONTAL  
POSITION OF THE DESIGNATED UTILITIES.

QUALITY LEVEL "C" - INFORMATION OBTAINED BY SURVEYING AND PLOTTING  
VISIBLE UTILITY FEATURES, AND BY USING PROFESSIONAL JUDGMENT IN  
CORRELATING THIS INFORMATION TO THE QUALITY "D" INFORMATION OBTAINED.

QUALITY LEVEL "D" - INFORMATION DERIVED FROM UTILITY RECORDS OR VERBAL  
RECOLLECTIONS.

ALL SERVICES ARE QUALITY "D" UNLESS NOTED OTHERWISE.  
LEVEL "D" RECORD INFORMATION SHOWN ON THIS PLAN HAVE BEEN PLOTTED  
APPROXIMATELY AS PER THE RECORDS FOUND AND COULD NOT BE FIELD VERIFIED  
WITHIN THE SCOPE OF THIS PROJECT. IF FURTHER VERIFICATION IS REQUIRED,  
IT IS SUGGESTED THAT LEVEL "A" METHODOLOGIES BE EMPLOYED.

**CAUTION: CALL BEFORE YOU DIG**

THIS PLAN IS INTENDED FOR DESIGN PURPOSES ONLY. OTHER BURIED UTILITIES MAY  
EXIST WHICH ARE NOT SHOWN DUE TO INSUFFICIENT INFORMATION OR IMPROPER  
CONTACT. ANY CONTACT WITH OR DAMAGE TO ANY UTILITIES SHOWN OR NOT SHOWN  
TO CONSTRUCTION OR BREAKING GROUND.  
IT IS THE RESPONSIBILITY OF THE CONTRACTOR/BUILDER TO ENSURE THE  
APPROPRIATE LEGAL REQUIREMENTS ARE MET.

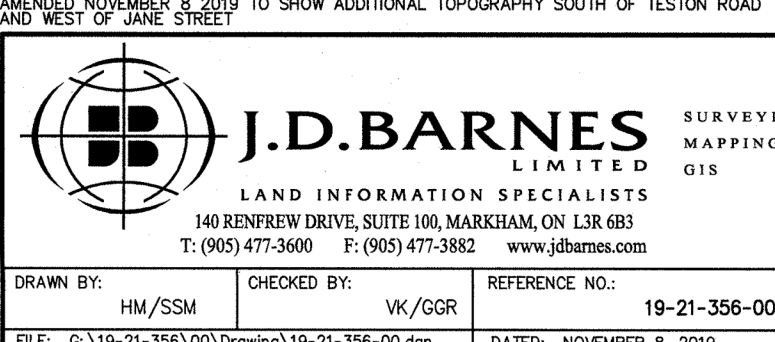
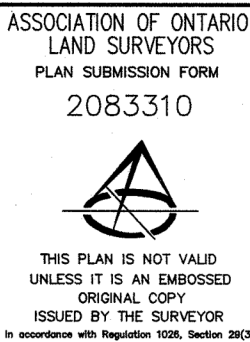
**SURVEYOR'S CERTIFICATE**

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEY  
ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS  
MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON AUGUST 23, 2019.

JULIAN 23, 2020  
DATE  
GREG G. ROBINSON  
ONTARIO LAND SURVEYOR

SUBSURFACE UTILITY FIELD WORK WAS COMPLETED ON THE 28TH DAY OF AUGUST, 2019  
MEMORANDUM NO. 8, 2019 TO SHOW ADDITIONAL TOPOGRAPHY SOUTH OF TESTON ROAD  
AND WEST OF JANE STREET



DRAWN BY: HM/SSM CHECKED BY: VK/GGR REFERENCE NO.: 19-21-356-00  
FILE: G:\19-21-356\00\Drawings\19-21-356-00.dgn PLOTTED: NOVEMBER 8, 2019  
DATE: 1/22/2020

**ISSUE OR REVISION**

NO.	ISSUED FOR	DATE
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
13	TRCA PERMIT	2023.07.11
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT:

CLIENT:

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

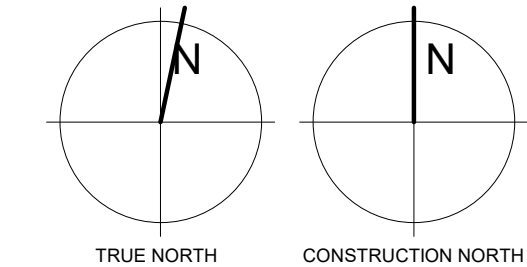
ARCHITECT  
**THOMASBROWNARCHITECTS**  
187 SPADINA AVENUE, SUITE 500 1 TORONTO ONTARIO M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

**SITE SURVEY**

ORIENTATION



DATE  
2020-11-18

PROJECT NO.

1622

DRAWING NO.

A2.1

REVISION

19

2025-11-02 9:55:19 PM

2960 TESTON ROAD, VAUGHAN

**YORK REGION PRS #33 RFTC**  
**397-21**



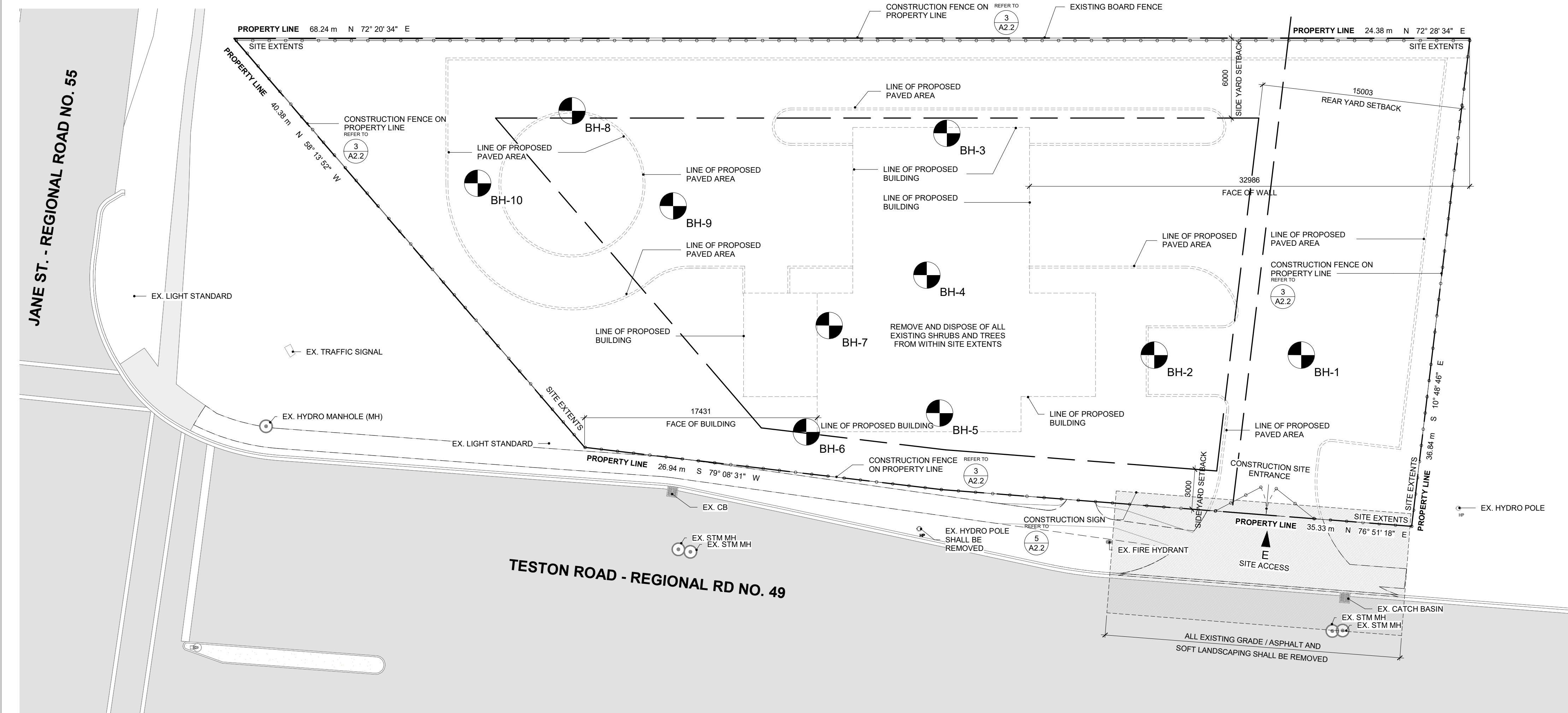
ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
4	SPA SUBMISSION 1	2020.08.11
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT:  
CLIENT  
PROFESSIONAL SEAL  
DWG TITLE  
ORIENTATION  
DATE  
PROJECT No.  
DRAWING No.  
REVISION

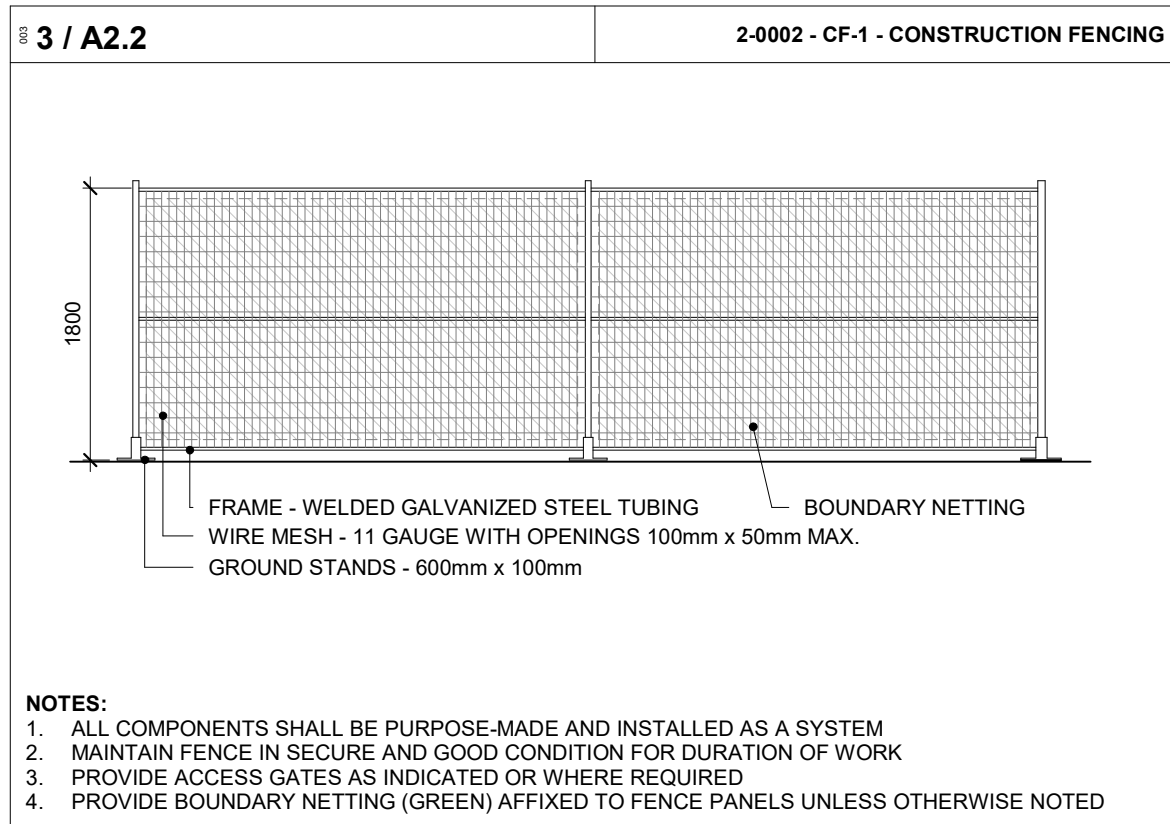
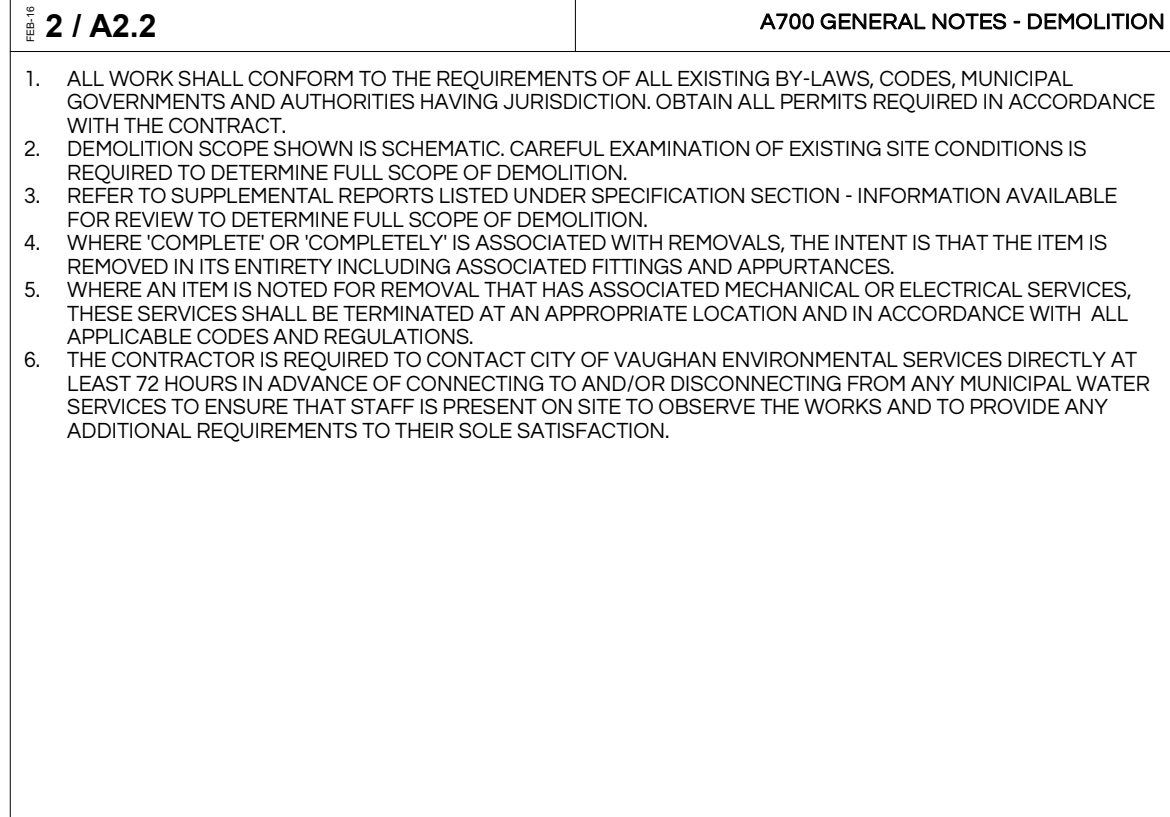
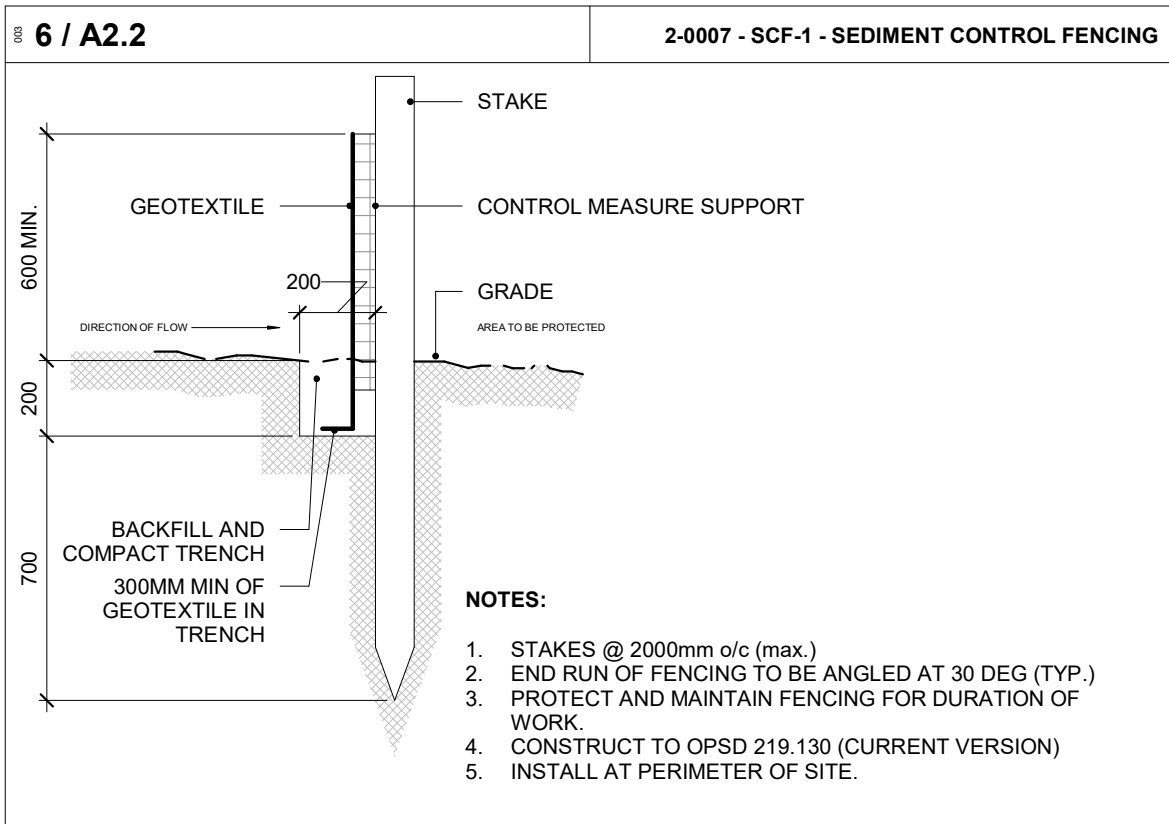
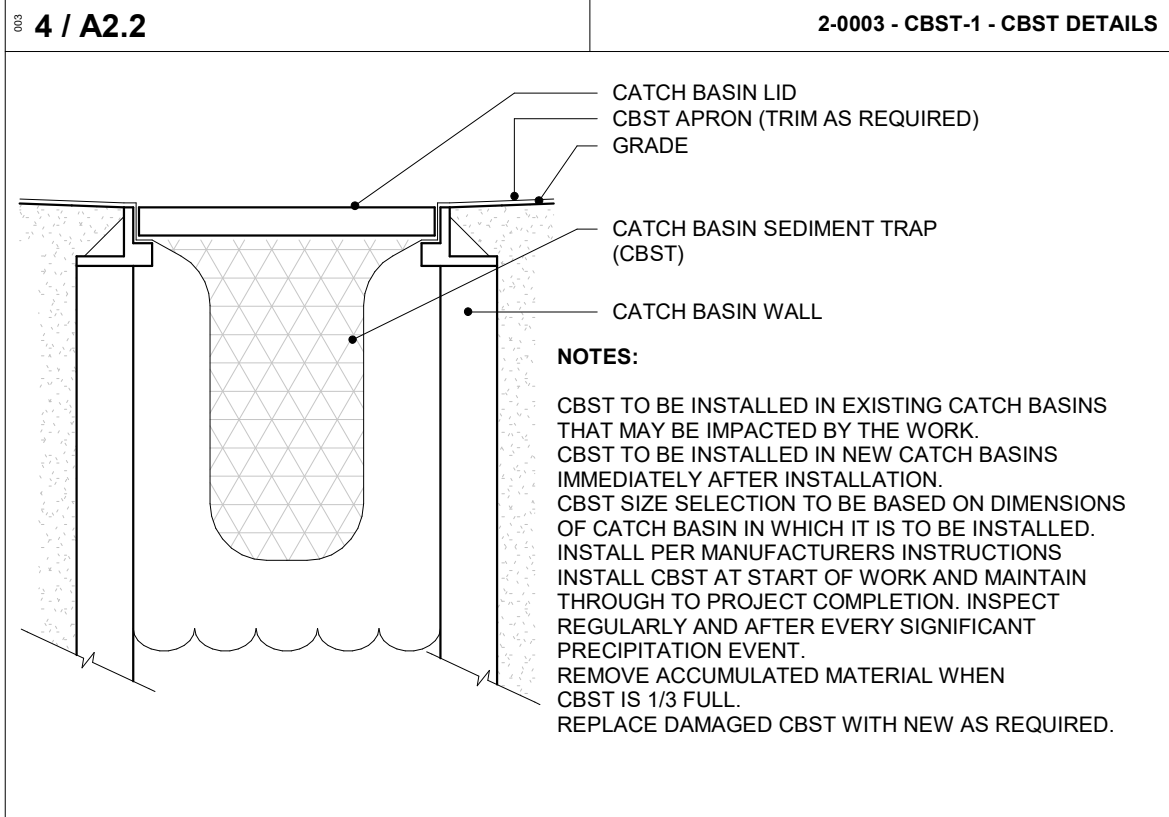
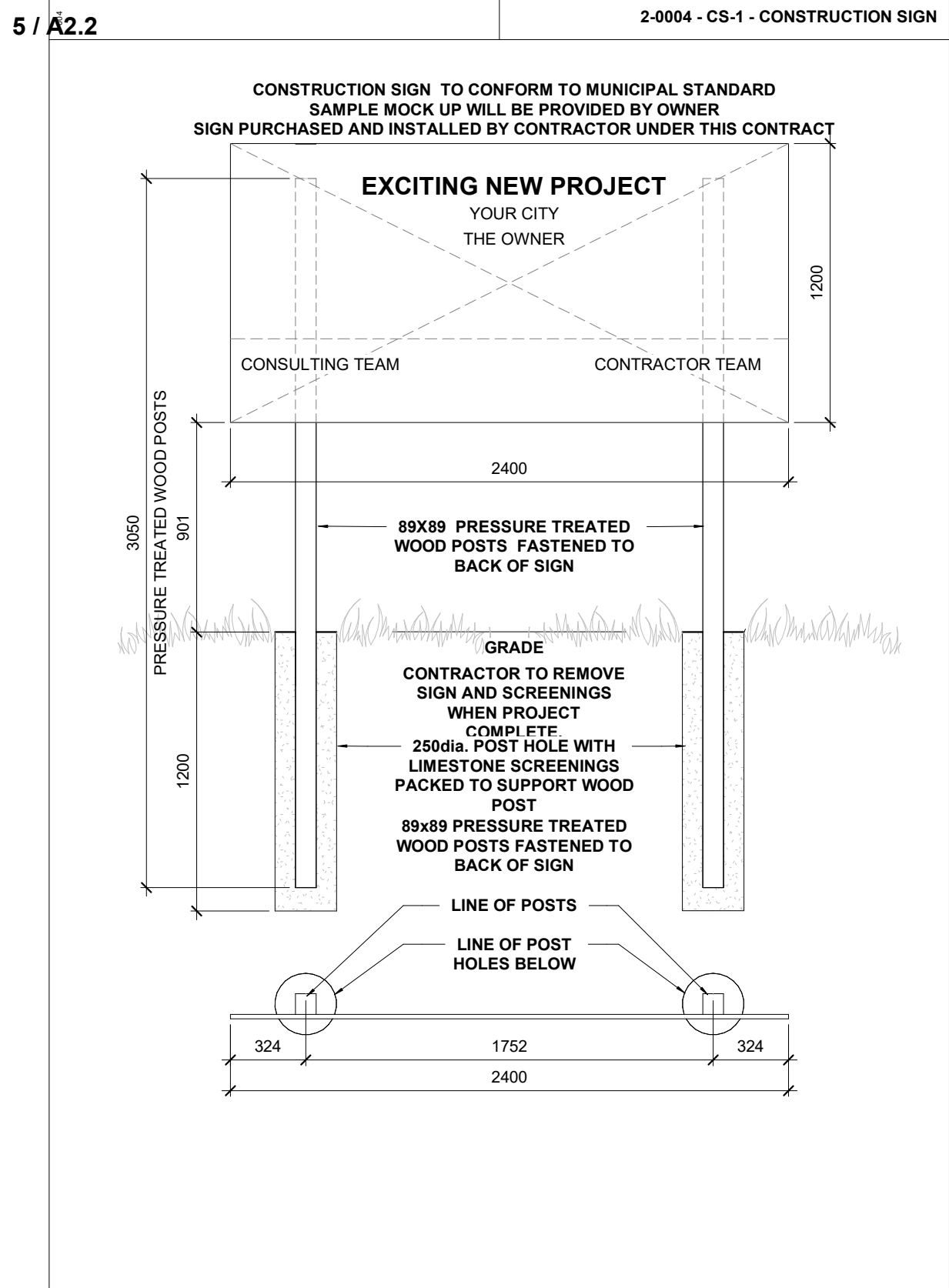
YORK REGION PRS #33 RFTC  
397-21  
2960 TESTON ROAD, VAUGHAN

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

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



1 DEMOLITION - SITE PLAN  
1 : 200



2025-11-02 9:55:20 PM



ISSUE OR REVISION

NO.	ISSUED FOR	DATE
11	SPA SUBMISSION 2	2023.06.05
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
16	SPA SUBMIT	2024-03-20
17	SPA SUBMISSION	2024-08-20
19	TENDER	2025-10-30

YORK REGION PRS #33 RFTC  
397-21

2960 TESTON ROAD, VAUGHAN

PROJECT:

CLIENT:

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

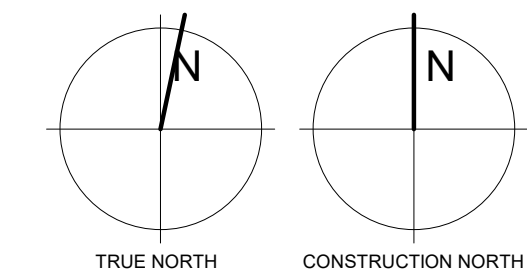
ARCHITECT  
**THOMASBROWNARCHITECTS**  
107 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO M5T 2S8

PROFESSIONAL SEAL

DWG TITLE

TREE INVENTORY /  
REMOVAL /  
PRESERVATION PLAN

ORIENTATION



DATE

2020-11-18

PROJECT NO.

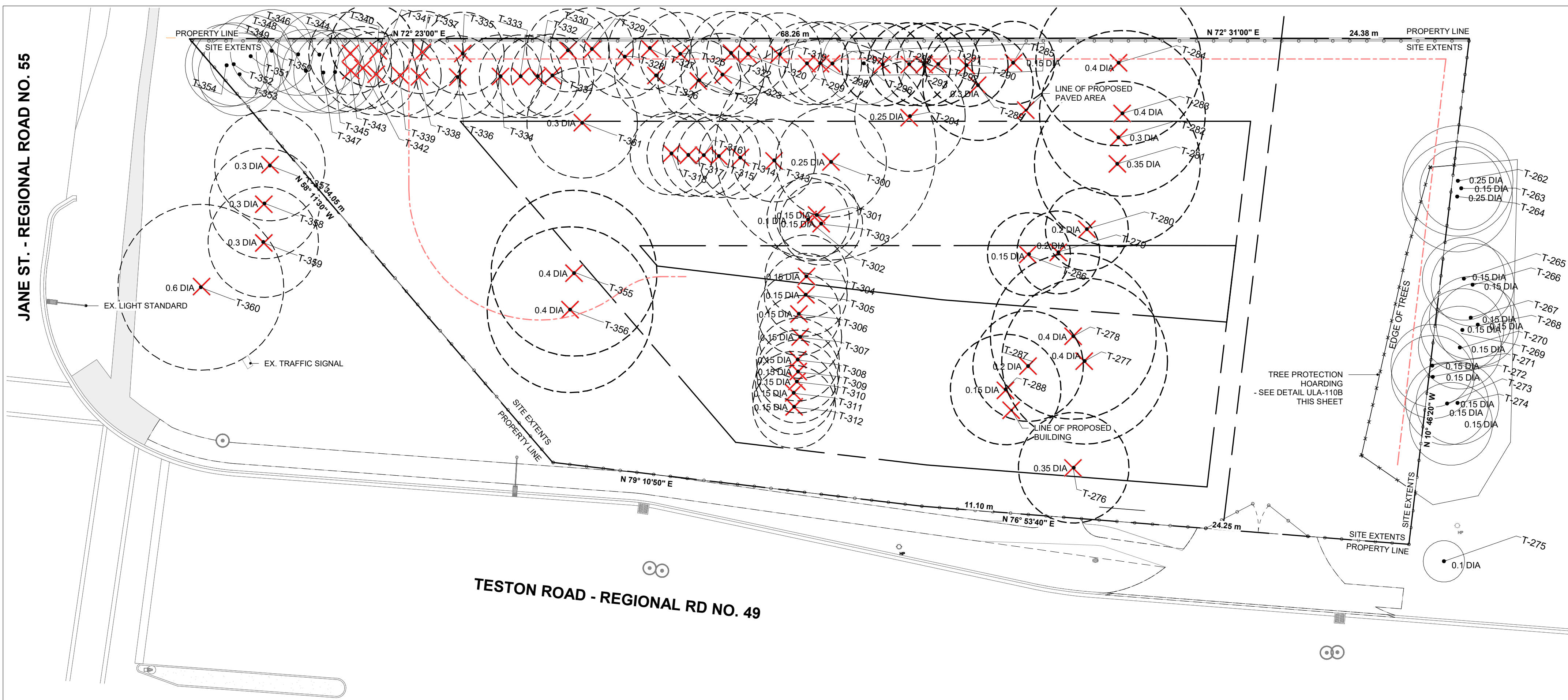
1622

DRAWING NO.

A2.3

REVISION

19





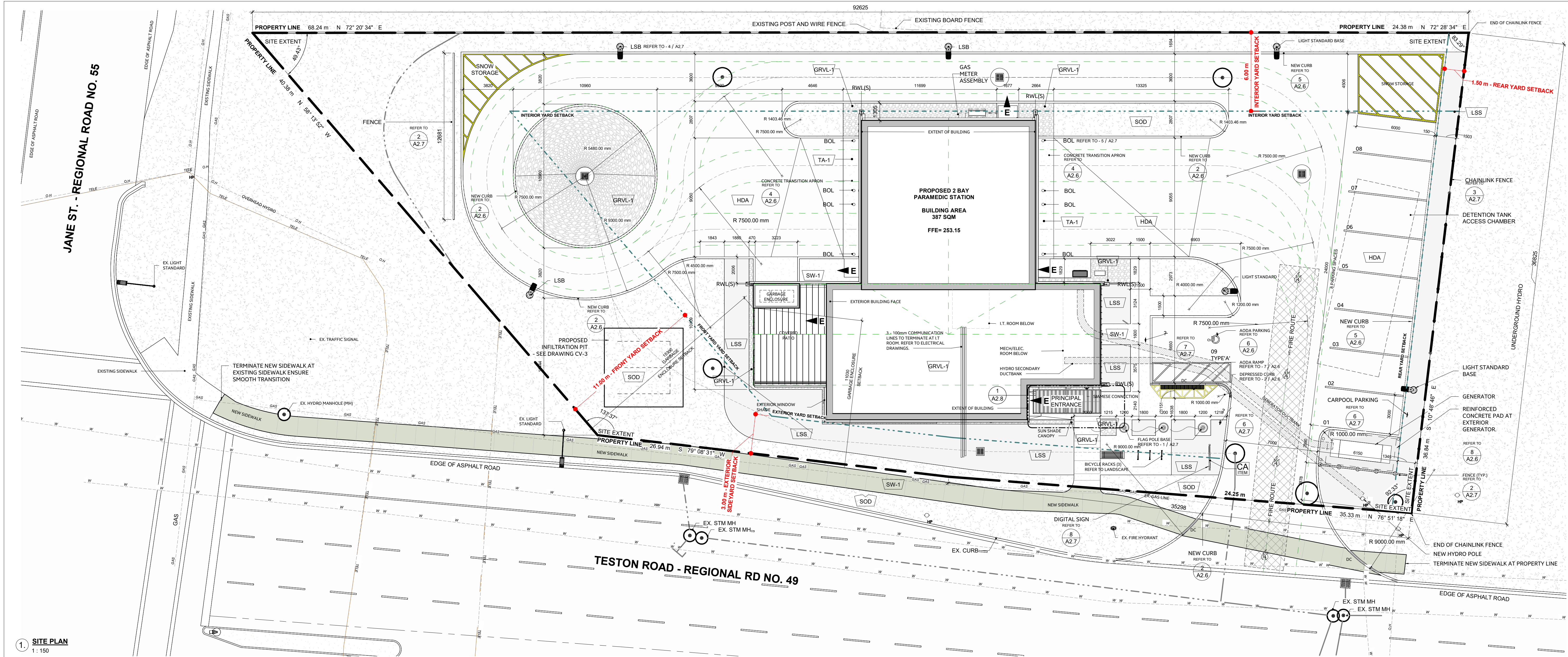
PROJECT SITE STATISTICS DATA					
ZONING INFORMATION					
ITEM	DESCRIPTION	DESCRIPTION			
1	ZONING BY-LAW	BY-LAW 1-88			
2	ZONING CATEGORY	AGRICULTURE (A)			
3	PERMITTED USES	PUBLIC BUILDING			
4	LOT AND PLAN NUMBER	PRT LOT 6 - PRT 28.3, CONC. 4, Plan 65R-25880			
LOT REQUIREMENTS		REQUIRED		PROPOSED	
5	LOT AREA	2,588.00	m²	2,588.00	m²
6	LOT FRONTAGE MINIMUM	N/R	m	N/R	m
7	LOT COVERAGE MAXIMUM %	20.00	%	14.91	%
8	LANDSCAPED AREA MINIMUM	258.80	m²	730.42	m²
9	GREEN ROOF AREA	N/R	m²	N/A	m²
10	FRONT YARD LANDSCAPE MINIMUM	N/R	%	N/R	%
11	HARDSCAPED AREA (HIGH ALBEDO)	N/R	m²	151.00	m²
12	PAVED AREA	N/R	m²	1,320.58	m²
PRINCIPAL BUILDING REQUIREMENTS		REQUIRED		PROPOSED	
13	BUILDING HEIGHT MAXIMUM	11.00	m	6.00	m
14	FLOOR SPACE INDEX	0.20	FSI	0.15	FSI
15	BUILDING FOOTPRINT	517.60	m²	386.00	m²
16	GROSS BUILDING AREA	N/R	m²	386.00	m²
17	ESTABLISHED GRADE	N/R	m		m
PARKING / LOADING / BICYCLE SPACES		REQUIRED		PROPOSED	
18	PARKING SPACES	13		9	
19	PARKING SPACES FOR PERSONS WITH...	1		1	
20	BICYCLE PARKING	2		2	
21	LOADING SPACES	N/R		0	
BUILDING TO PROPERTY SETBACKS		REQUIRED		PROPOSED	
22	FRONT YARD SETBACK (PER MV A064/21)	11.00	m	11.00	m
23	SIDE YARD SETBACK (PER MV A064/21)	3.00	m	3.00	m
24	REAR YARD SETBACK (PER MV A064/21)	1.5	m	1.50	m
25	SIDE YARD SETBACK (PER MV A064/21)	6.00	m	6.00	m
LANDSCAPE BUFFER PROPERTY SETBACKS		REQUIRED		PROPOSED	
26	LANDSCAPE SETBACK FRONT YARD	6.00	m	3.00	m
27	LANDSCAPE SETBACK SIDE YARD	0.00	m	1.50	m
28	LANDSCAPE SETBACK REAR YARD	0.00	m	3.00	m
29	LANDSCAPE SETBACK SIDE YARD	0.00	m	3.00	m

3 / A2.4		2-0016 - SUR-1 - ASPHALT AND CONCRETE SURFACES	
870 - TOTAL THICKNESS	HDA HEAVY DUTY ASPHALT	OPSS HL3	
	ASPHALT PAVING	OPSS HL8	
	BASE	OPSS GRANULAR A BASE	
720 - TOTAL THICKNESS	LDA LIGHT DUTY ASPHALT	OPSS HL3	
	ASPHALT PAVING	OPSS HL8	
	BASE	OPSS GRANULAR A BASE	
950 - TOTAL THICKNESS	RCA REINFORCED CONCRETE APRON	CONCRETE SLAB ON GRADE COMPLETE WITH 15M EPOXY COATED REINFORCING, T+B, B.E.W @ 400mm o/c	
	BASE	OPSS GRANULAR B - TYPE 1	
	SUB-BASE	OPSS GRANULAR B - TYPE 1	
150 - TOTAL THICKNESS	SW-1 / SW-2 SIDEWALK SECTION	CONCRETE SLAB ON GRADE	
	SIDEWALK	6MIL POLYETHYLENE VAPOUR BARRIER (UNDER SLAB)	
	BASE	OPSS GRANULAR A BASE	
NOTE: SW-1 SIDEWALK - 150 CONCRETE SLAB ON GRADE - TOTAL THICKNESS (T) 300MM SW-2 SIDEWALK - 200 CONCRETE SLAB ON GRADE - TOTAL THICKNESS (T) 350MM THICKNESS INCREASED TO 200MM OR AS REQ'D TO MEET MUNICIPAL REQUIREMENT AT DRIVEWAY ENTRANCES. CONFIRM MUNICIPAL REQUIREMENTS PRIOR TO PROCEEDING.			
NOTES: 1. REFER ALSO TO GEOTECHNICAL REPORT(S) TO CONFIRM LAYER THICKNESSES. REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO PROCEEDING. 2. CONCRETE SHALL BE CLASS C2, 32MPa, 5-8% AIR CONTENT WITH A MAX. SLUMP OF 80MM			

2 / A2.4		A700 GENERAL NOTES - SITE PLAN	
1. THE CONTRACT CONSISTS OF ALL WORK WITHIN THE 'PROPERTY LINE' AND/OR 'SITE EXTENTS' LINE AS INDICATED PLUS ANY WORK SPECIFICALLY NOTED OUTSIDE OF THAT LINE OR AS REQUIRED TO DELIVER A OPERATIONAL, FUNCTIONING PROJECT. 2. THE TERM 'SITE EXTENTS' REFERS TO THE AREA THAT THE CONTRACTOR IS REQUIRED TO ENCLOSE WITH CONSTRUCTION FENCING FOR THE DURATION OF THE WORK. 3. ALL WORK DONE OUTSIDE OF THESE LIMITS MUST BE EXECUTED IN STRICT ACCORDANCE WITH THE STANDARDS OF THE MUNICIPALITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION. MAKE GOOD AT NO ADDITIONAL COST TO THE OWNER OR MUNICIPALITY ANY DAMAGE CAUSED BY THIS CONSTRUCTION TO MATERIALS OR FINISHES BEYOND THE 'PROPERTY LINE' INDICATED. 4. CONTRACTOR IS TO RESTRICT ALL WORK, EQUIPMENT AND MATERIALS STORAGE TO AREA(S) WITHIN THE 'PROPERTY LINE' EXCEPT WHERE NOTED OTHERWISE. PRIMARY SITE ACCESS POINT & CONSTRUCTION PARKING IS TO BE CONFIRMED WITH OWNER. NO PARKING IS PERMITTED IN THE MUNICIPAL RIGHT-OF-WAY. 5. LOCATE EXCAVATED MATERIALS & TOPSOIL PILES SO AS NOT TO IMPEDE PROGRESS OF THE WORK OR AS DIRECTED. 'DOUBLE HANDLING' OF MATERIALS AS A RESULT OF CONTRACTOR PLANNING OR EXECUTION OF THE WORK WILL NOT BE CONSIDERED AS A BASIS FOR CLAIM. AT COMPLETION OF THE PROJECT, ANY EXCESS MATERIAL IS TO BE REMOVED AND AREA MADE GOOD TO CONSULTANTS SATISFACTION. 6. FOR TRENCHING & BACKFILLING OF ALL SERVICE LINES AND DIVISION OF RESPONSIBILITY REFER TO APPROPRIATE SPECIFICATION SECTIONS AND DRAWINGS. TRENCHING & BACKFILLING NOT IDENTIFIED BY A PARTICULAR SUB-TRADE WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE TRENCHING AND BACKFILLING. GRADE FINISHED WORK TO MATCH SURROUNDING SURFACES. 7. NOTE THAT THE EXACT LOCATIONS OF ALL NEW MECHANICAL & ELECTRICAL ITEMS ARE APPROXIMATE UNLESS DIMENSIONS ARE GIVEN. ADJUST LOCATIONS AS REQUIRED AND AS APPROVED BY CONSULTANT TO SUIT SITE CONDITIONS. 8. NOTE THAT ALL MECHANICAL AND ELECTRICAL UNDERGROUND AND ABOVEGROUND SERVICE LINES INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATELY AS POSSIBLE FROM INFORMATION SUPPLIED. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT TYPES, LOCATIONS, DEPTHS AND MARKING ALL UNDERGROUND AND ABOVEGROUND SERVICES WITHIN ALL AREAS OF CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO GAS LINES, WATER LINES, ELECTRICAL LINES, TELEPHONE, CABLE TV ETC. VERIFY EXACT LOCATIONS WITH THE APPROPRIATE AUTHORITIES BEFORE EXCAVATING. 9. PRIOR TO COMMENCING WORK TO PLACE VERTICAL ELEMENTS SUCH AS FLAGPOLES AND LIGHT STANDARDS ENSURE ADEQUATE CLEARANCE FROM EXISTING ABOVE GROUND ELEMENTS SUCH AS OVERHEAD WIRES CABLES ETC. NOTIFY THE CONSULTANT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK. 10. ALL FINISHED PAVING AND GRADING TO BE TO NEW LEVELS SHOWN. ALL DRAINAGE TO BE POSITIVE. LEAVING NO POCKETS IN FINISHED GRADE. FINISHED GRADING TO SLOPE MINIMUM 1:12 AND ASPHALT TO SLOPE MAX 1:10 AWAY FROM BUILDING UNLESS SHOWN OTHERWISE. NEW GRADES TO MEET EXISTING GRADES FALLING AWAY FROM BUILDING AND FEATHERED OUT EVENLY. 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF CONSTRUCTION TO FACILITATE AS-BUILT DRAWINGS. 12. CO-ORDINATE ALL WORK NOTED HERE WITH THE SPECIFICATION DOCUMENTS - FOR GENERAL REQUIREMENTS, EXISTING CONDITIONS, EXCAVATION & BACKFILLING, LANDSCAPING, ETC AS REQUIRED FOR COMPLETE SITE RELATED WORK.		GC COORD SURFACES COORD INTERFERENCE	



1 KEY PLAN  
1 : 2500



1 SITE PLAN  
1 : 150

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
11	SPA SUBMISSION 2	2023.06.05
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
15	SPA SETBACK REV.	2023-10-31
16	SPA SUBMIT	2024-03-20
19	TENDER	2025-10-30

# YORK REGION PRS #33 RFTC 397-21

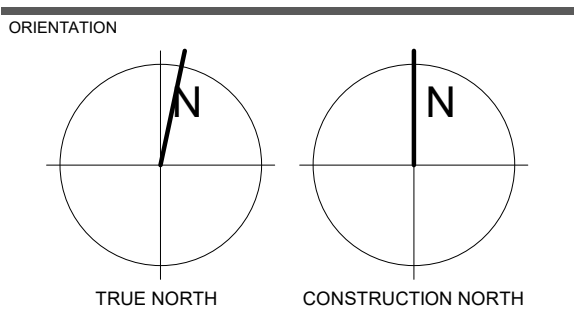
2960 TESTON ROAD, VAUGHAN

PROJECT:  
CLIENT:

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.  
ARCHITECT  
THOMASBROWNARCHITECTS  
167 SPADINA AVENUE, SUITE 508 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

## SITE PLAN & SITE STATISTICS



DATE	2020-11-18
PROJECT NO.	1622
DRAWING NO.	A2.4
REVISION	19

2025-11-02 9:55:33 PM



ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
8	90% CONTRACT DOCUMENTS	2020.12.03
11	SPA SUBMISSION 2	2023.06.05
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT:  
**YORK REGION PRS #33 RFTC**  
**397-21**

2960 TESTON ROAD, VAUGHAN

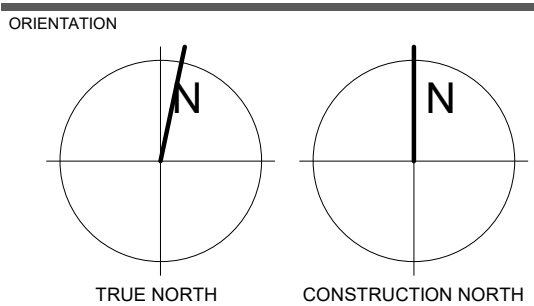
CLIENT

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

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

PROFESSIONAL SEAL

DWG TITLE  
**LAYOUT PLAN - SITE**

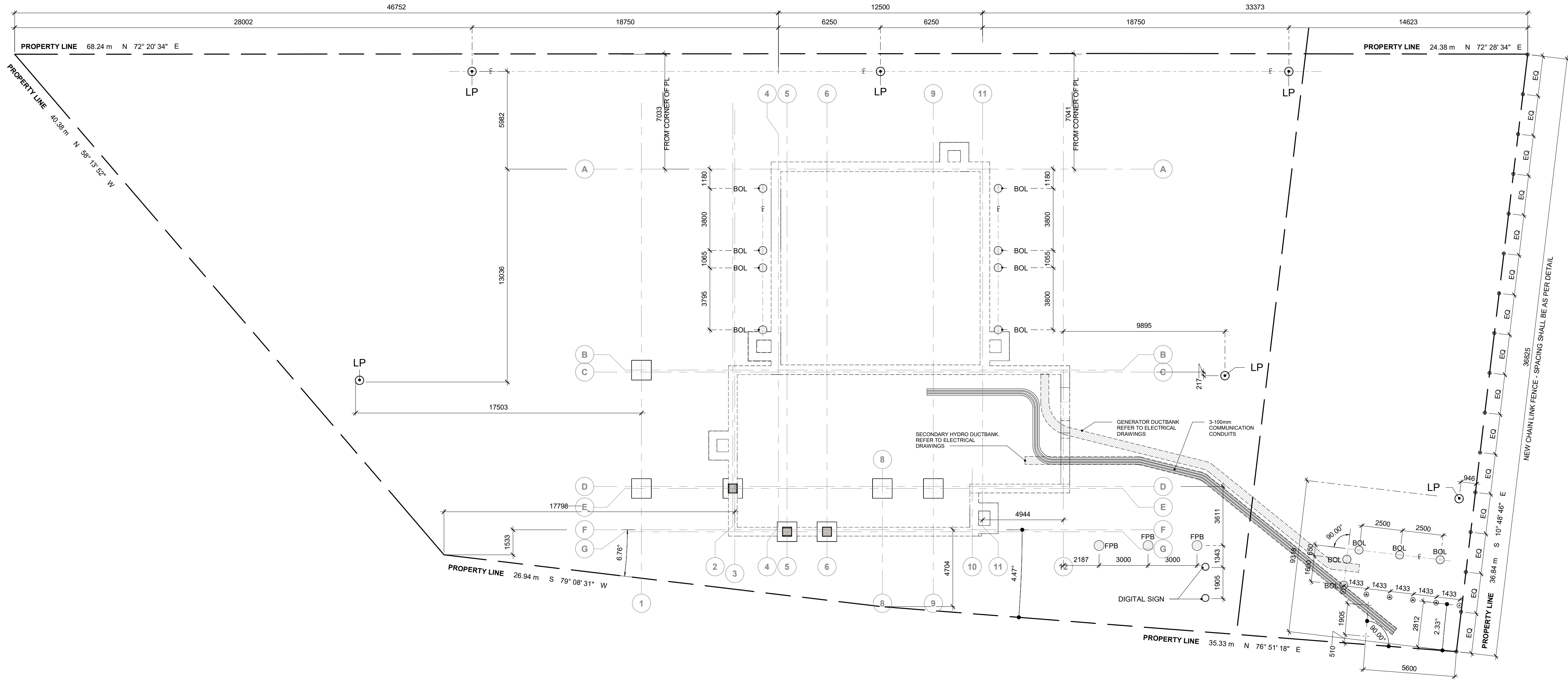


DATE  
**2020-11-18**

PROJECT No.  
**1622**

DRAWING No.  
**A2.5**

REVISION  
**19**

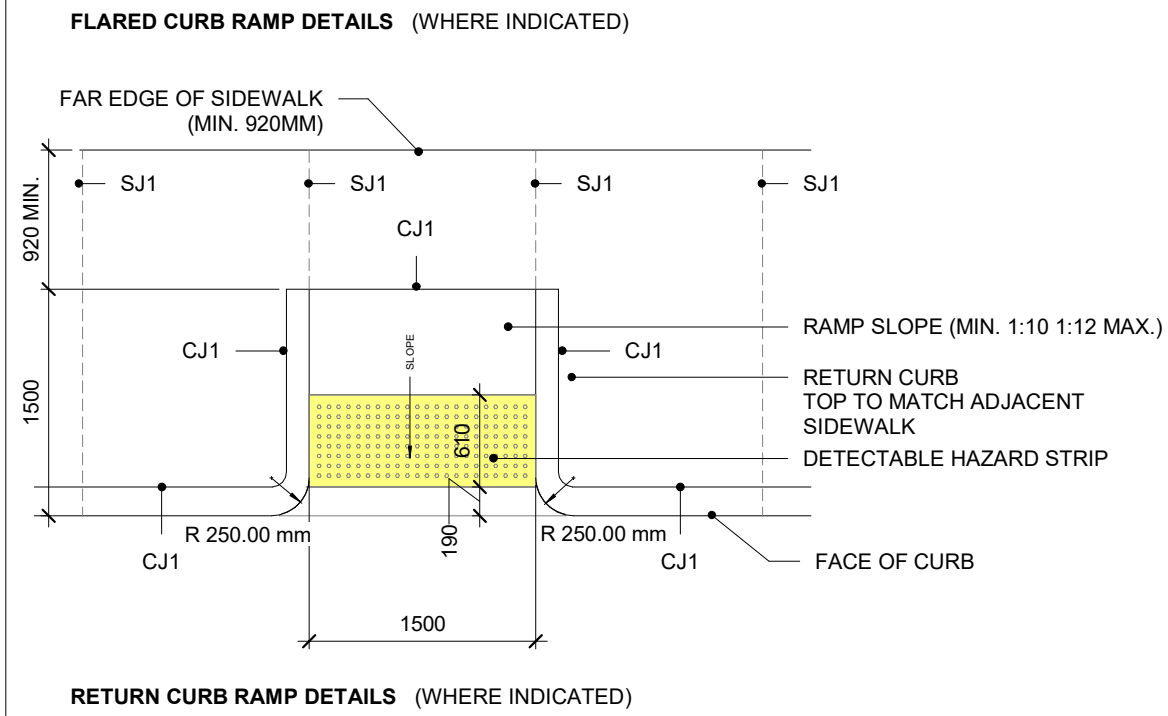
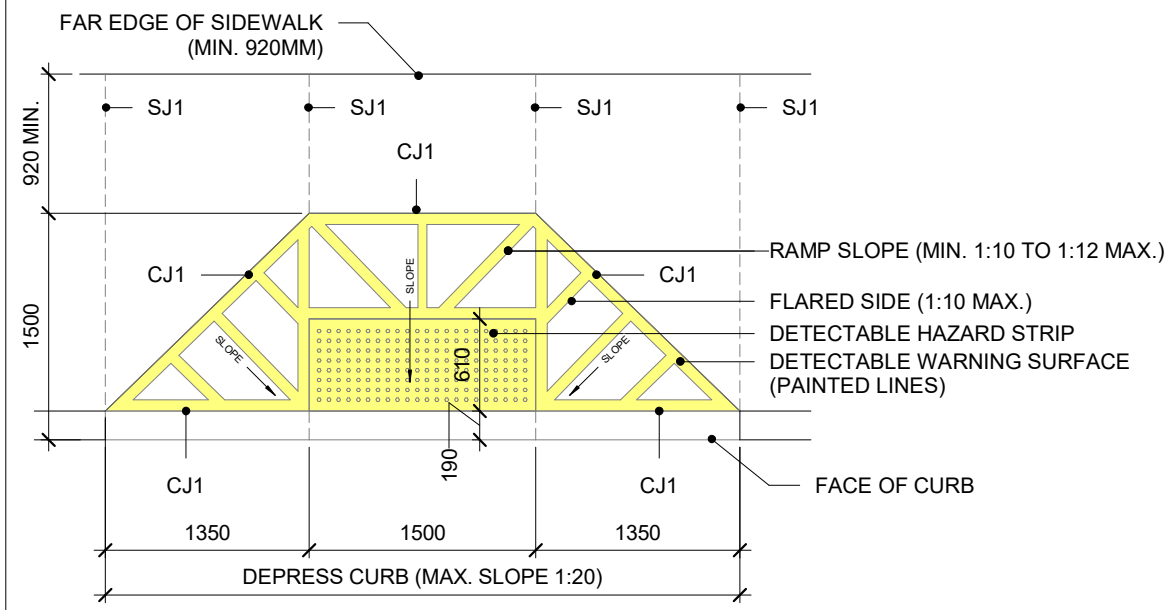


1 LAYOUT PLAN - SITE PLAN  
1 : 150

2025-11-02 9:55:34 PM

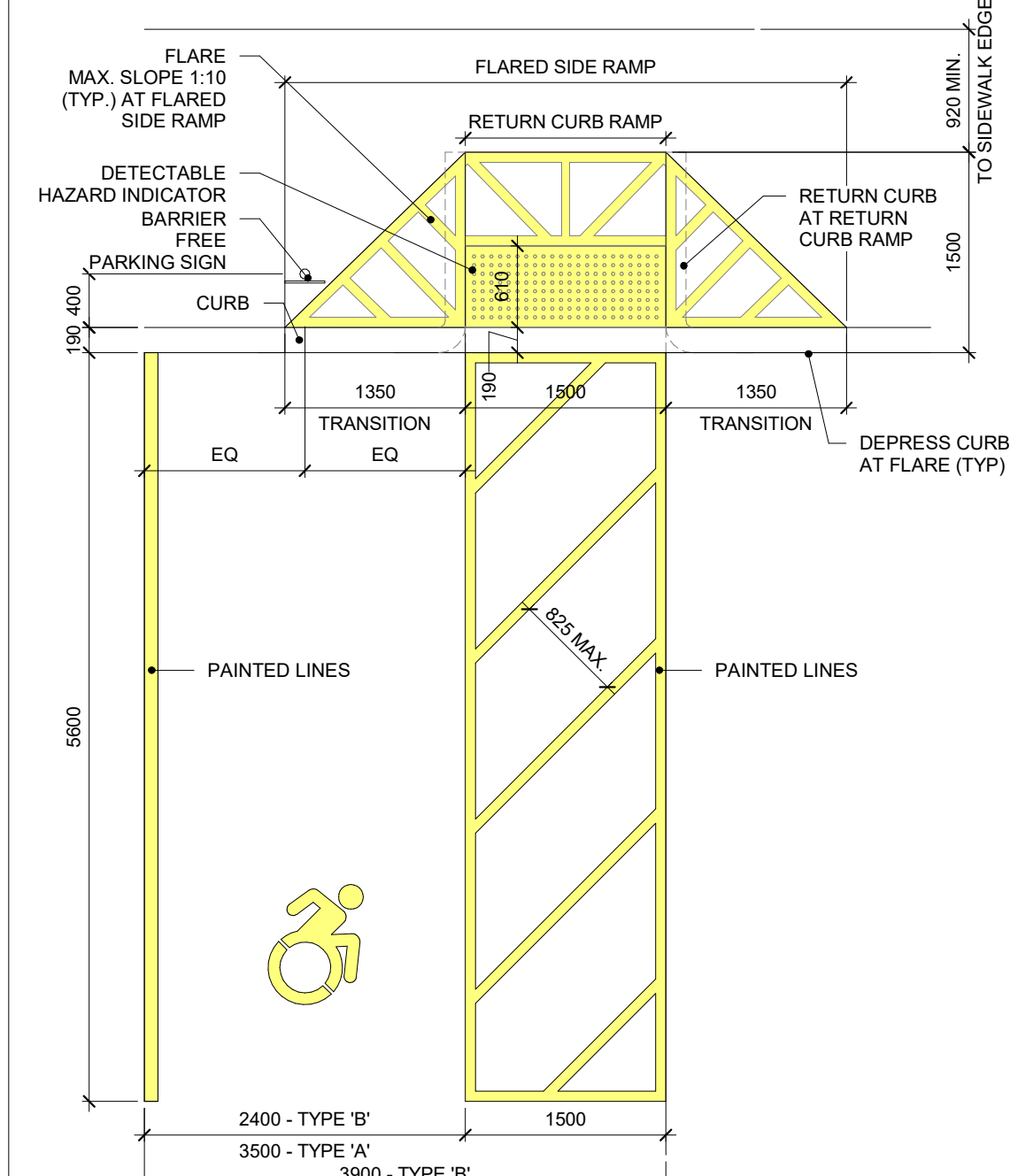


7 / A2.6 2-0008 - AODA RAMP-1 AODA PARKING SPACE DETAILS



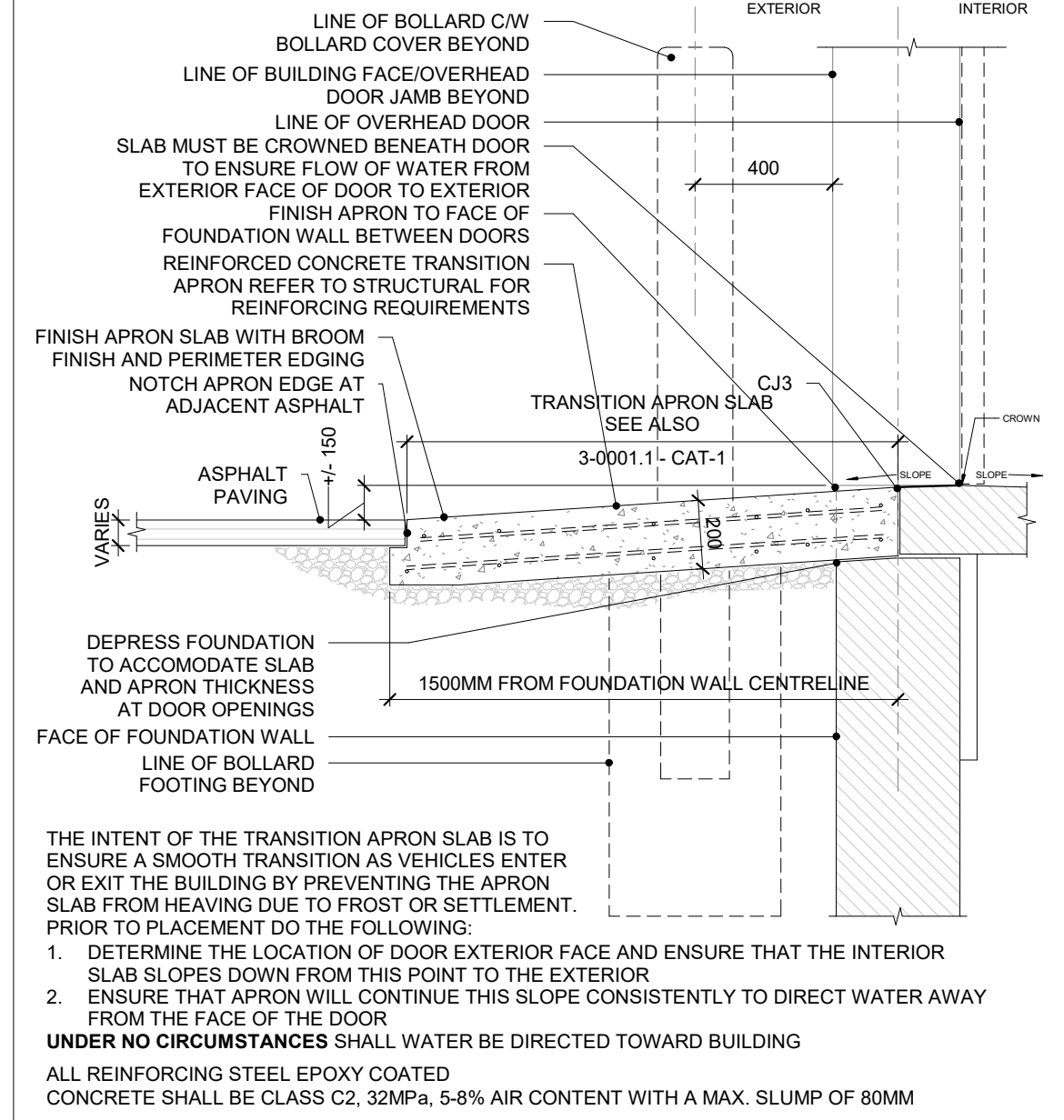
AODA MANDATORY REQUIREMENT

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



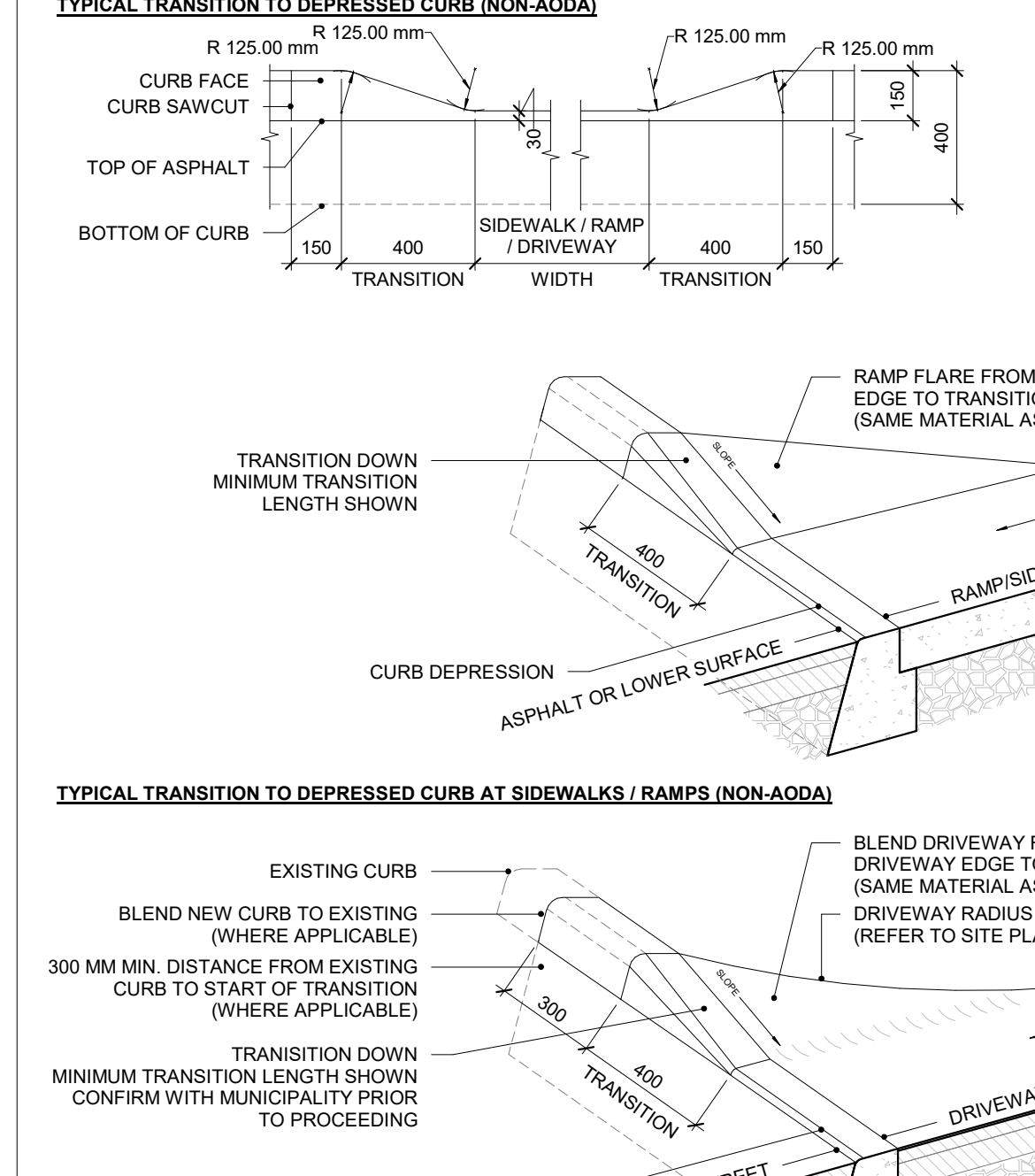
AODA MANDATORY REQUIREMENT

4 / A2.6 3-0001 - CAA-1 - CONCRETE TRANSITION APRON TYPICAL (ASPHALT)



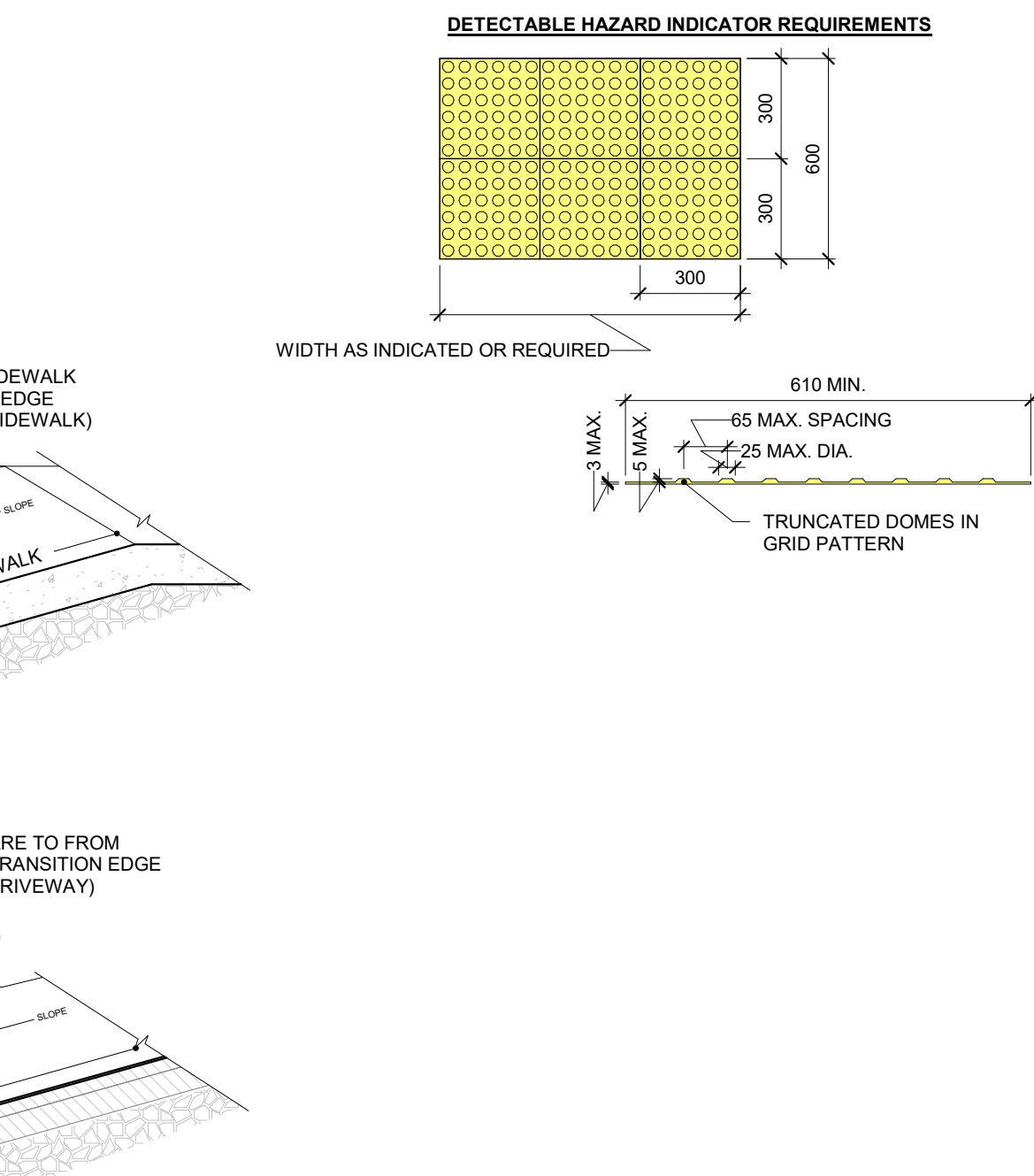
AODA MANDATORY REQUIREMENT

2 / A2.6 2-0012 - CD-2 - CURB AND RAMP DETAILS - SIDEWALKS AND DRIVEWAY ENTRANCES



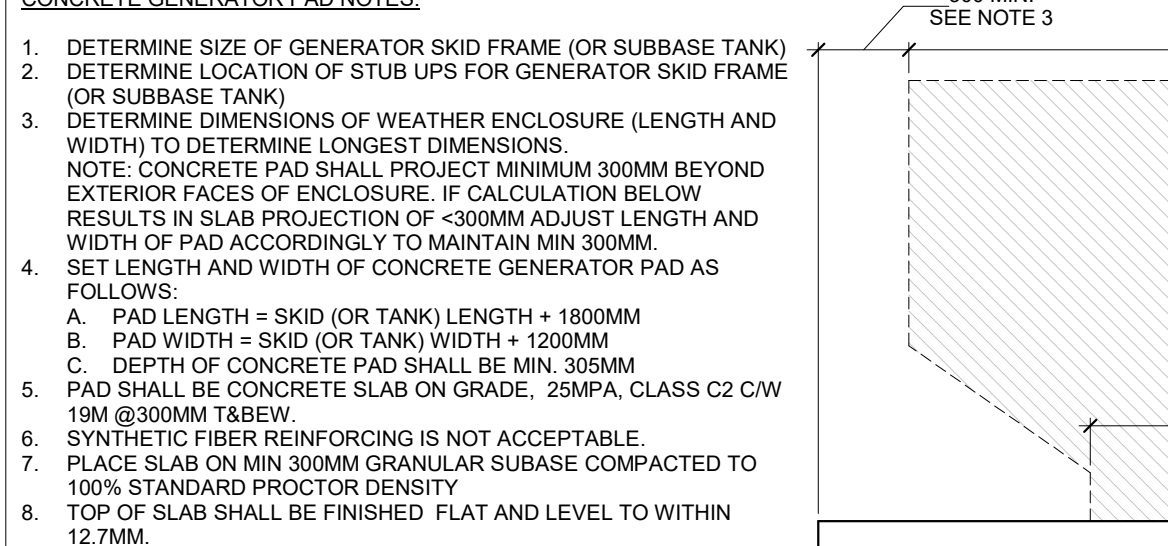
AODA MANDATORY REQUIREMENT

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



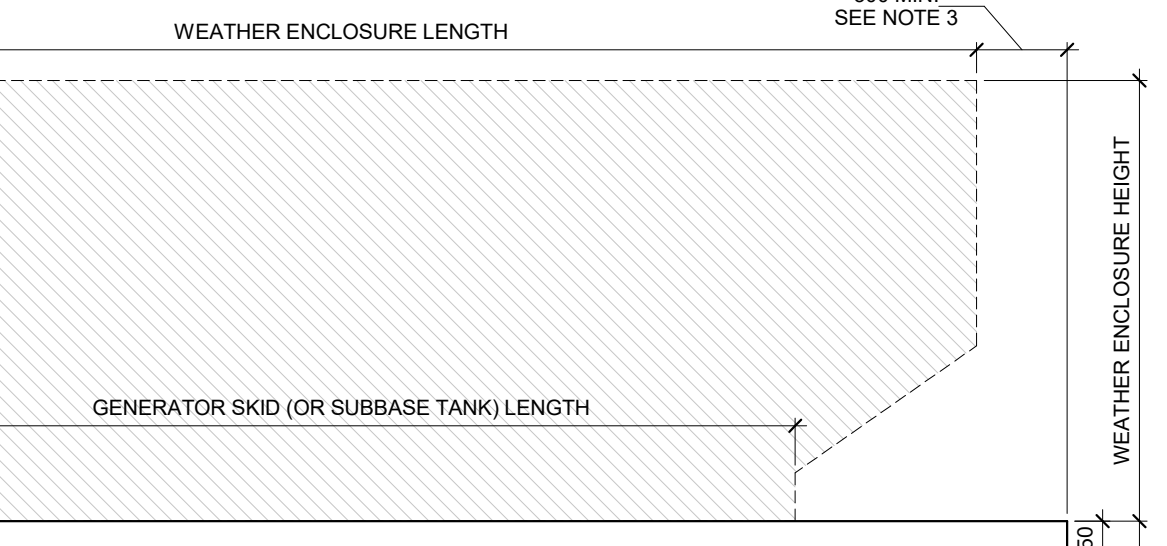
AODA MANDATORY REQUIREMENT

8 / A2.6 11-0007 - GD-2 - GENERATOR DETAIL (EXTERIOR)



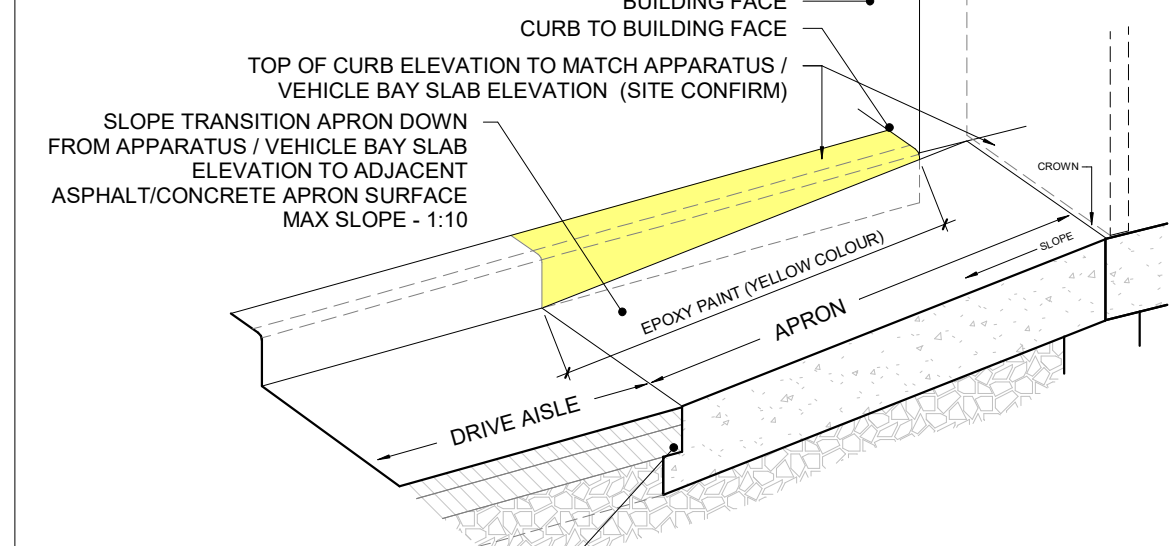
AODA MANDATORY REQUIREMENT

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



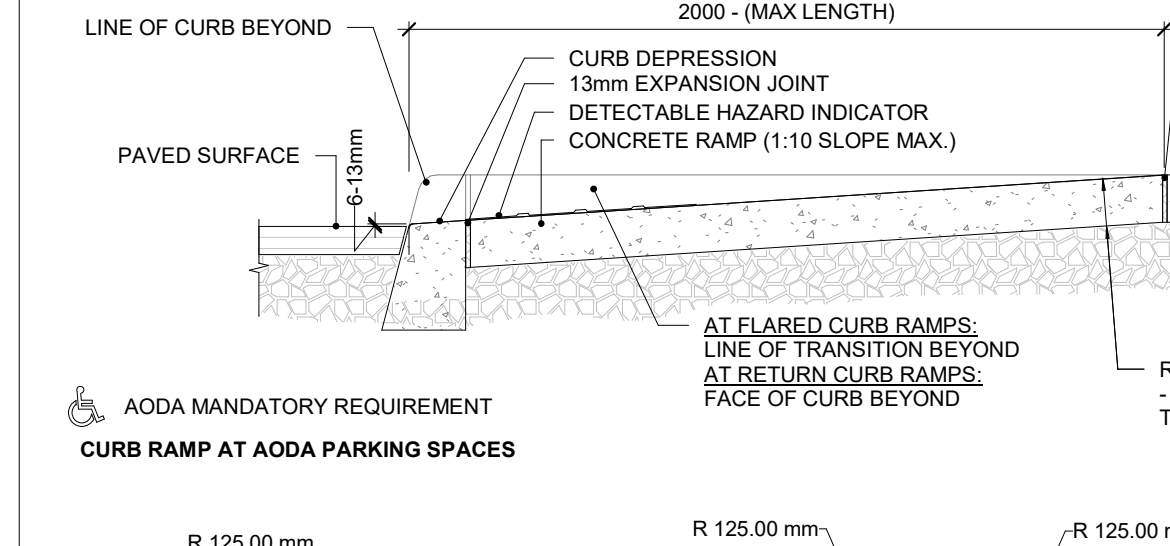
AODA MANDATORY REQUIREMENT

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



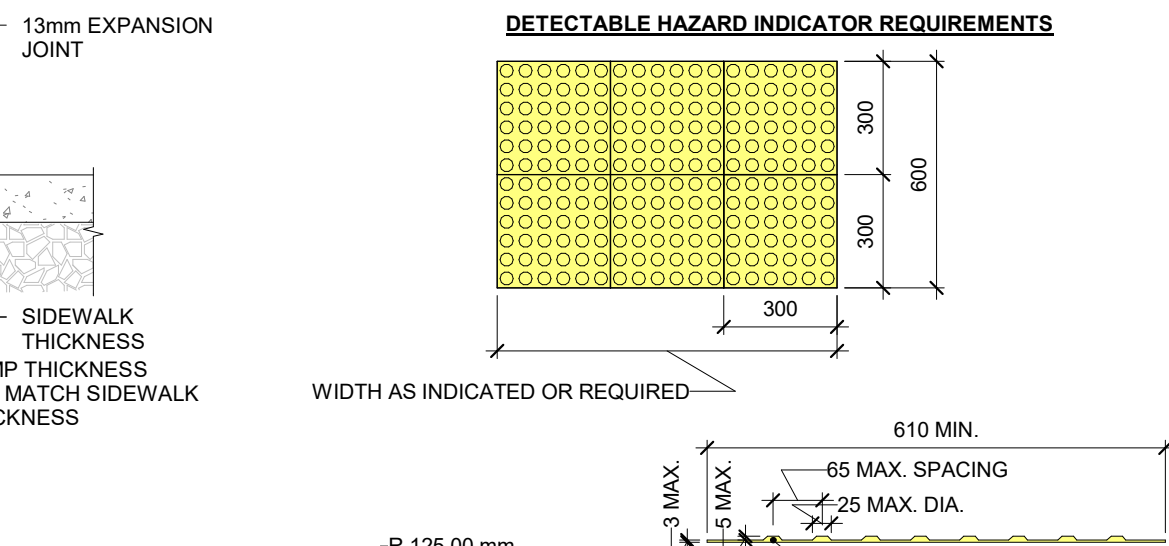
AODA MANDATORY REQUIREMENT

1 / A2.6 2-0013 - CD-3 - AODA RAMP DETAILS



AODA MANDATORY REQUIREMENT

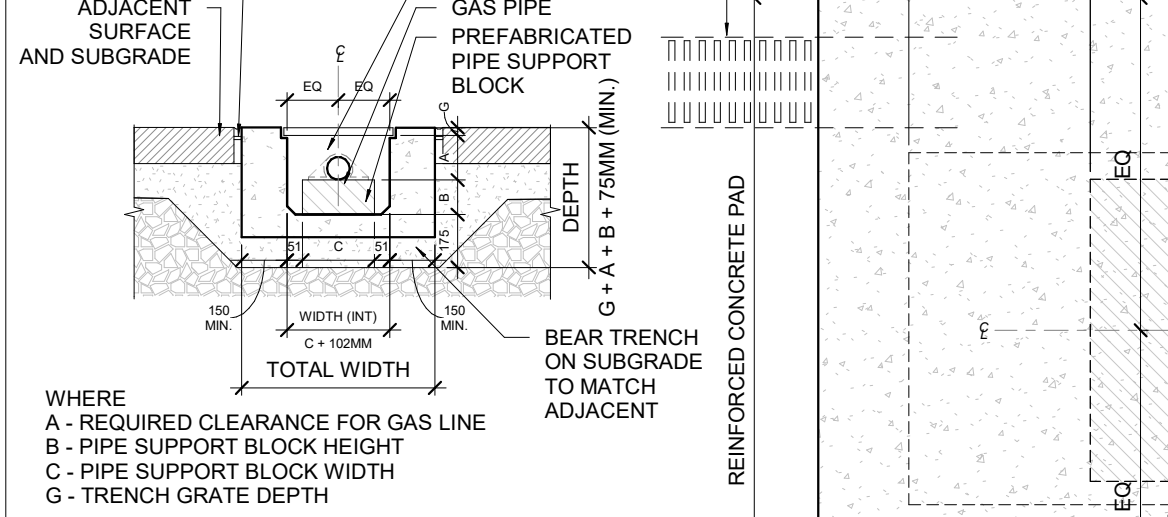
2-0013 - CD-3 - AODA RAMP DETAILS



AODA MANDATORY REQUIREMENT

AS PART OF SHOP DRAWING SUBMISSION, CONFIRM GENERATOR PAD WEIGHT MEETS GENERATOR REQUIREMENTS. IF PAD DOES NOT MEET GENERATOR REQUIREMENTS ADJUST PAD DIMENSIONS TO SUIT CONDITION. CONTRACTOR TO COORDINATE WITH SUPPLIERS / MANUFACTURERS ACCORDINGLY.

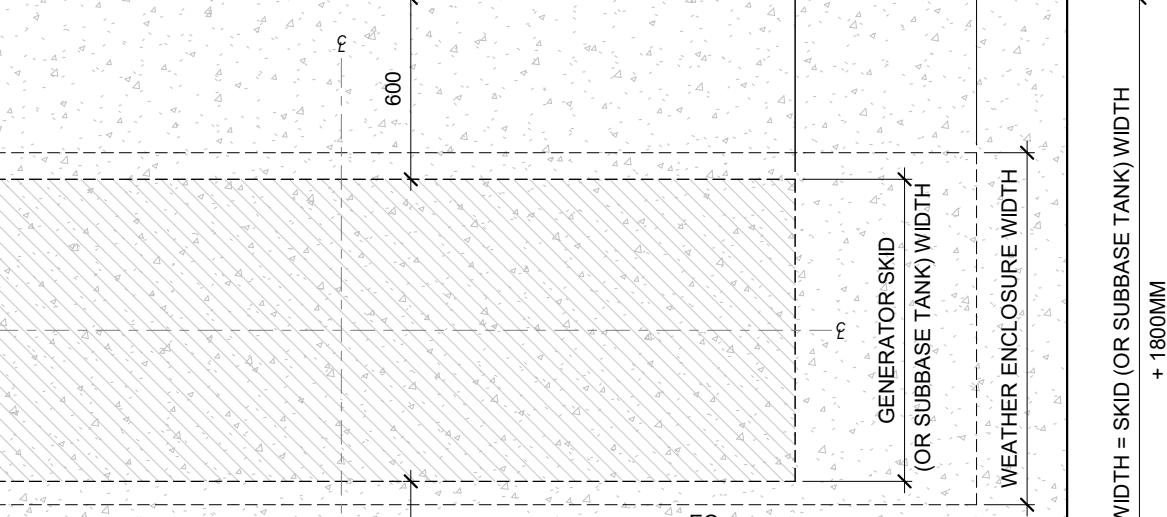
\*\* WHERE GAS LINE TO GENERATOR IS BELOW GRADE REFER TO GAS TRENCH SUPPLY DETAIL (BELOW) INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODES



AODA MANDATORY REQUIREMENT

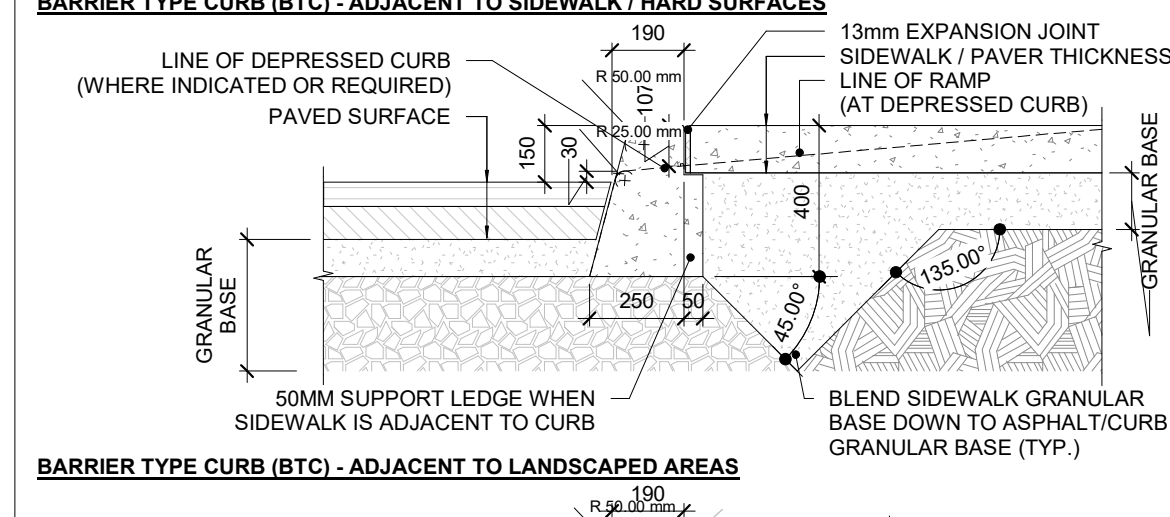
11-0007 - GD-2 - GENERATOR DETAIL (EXTERIOR)

\*\* WHERE GAS LINE TO GENERATOR IS BELOW GRADE REFER TO GAS TRENCH SUPPLY DETAIL (BELOW) INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODES



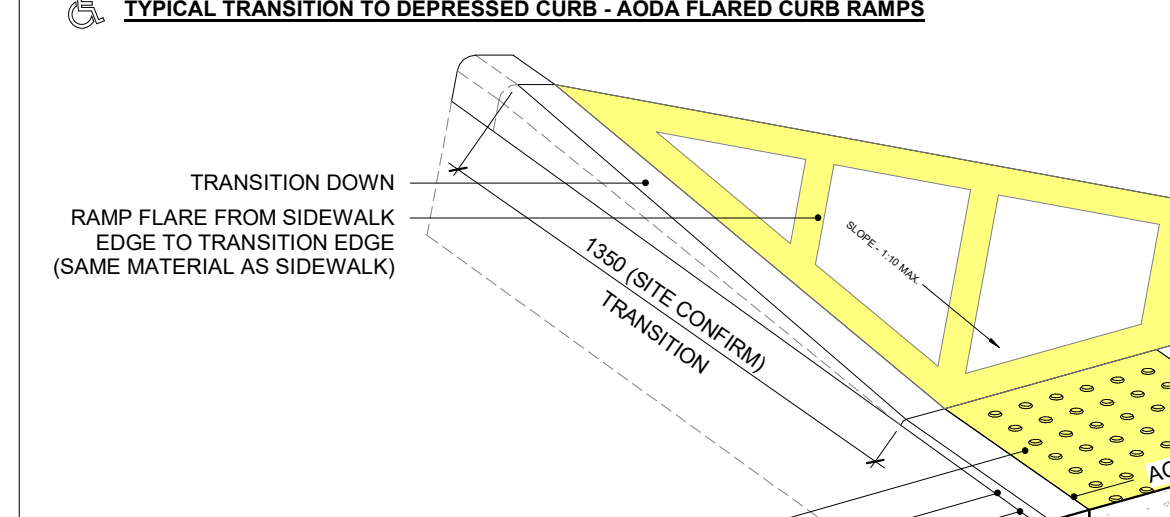
AODA MANDATORY REQUIREMENT

5 / A2.6 2-0011 - CD-1 - CURB DETAILS



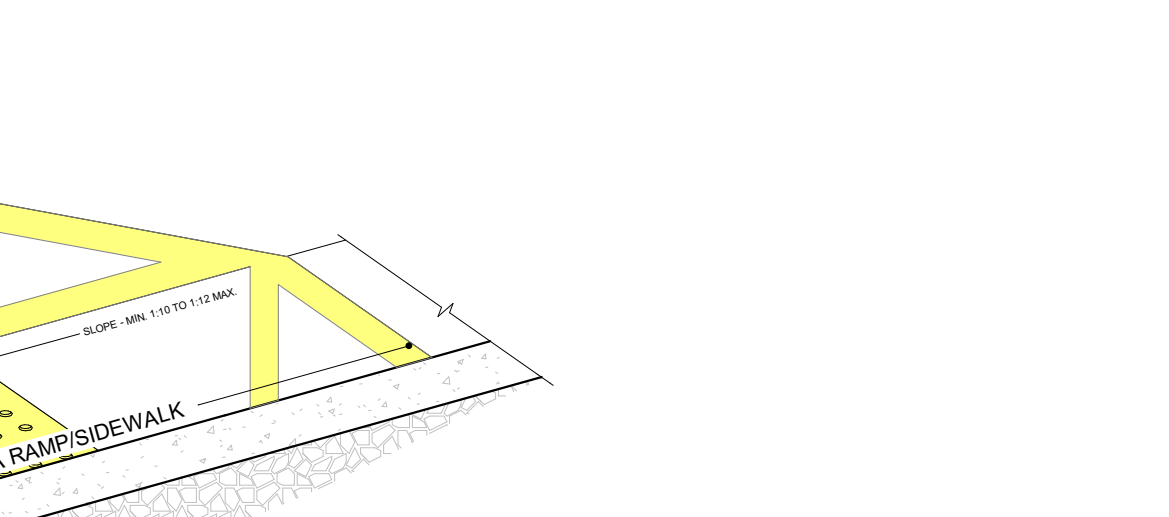
AODA MANDATORY REQUIREMENT

2-0011 - CD-1 - CURB DETAILS



AODA MANDATORY REQUIREMENT

11-0003 - IWS-1 - INCOMING WATER SERVICE



AODA MANDATORY REQUIREMENT

AS PART OF SHOP DRAWING SUBMISSION, CONFIRM GENERATOR PAD WEIGHT MEETS GENERATOR REQUIREMENTS. IF PAD DOES NOT MEET GENERATOR REQUIREMENTS ADJUST PAD DIMENSIONS TO SUIT CONDITION. CONTRACTOR TO COORDINATE WITH SUPPLIERS / MANUFACTURERS ACCORDINGLY.

\*\* WHERE GAS LINE TO GENERATOR IS BELOW GRADE REFER TO GAS TRENCH SUPPLY DETAIL (BELOW) INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODES



AODA MANDATORY REQUIREMENT

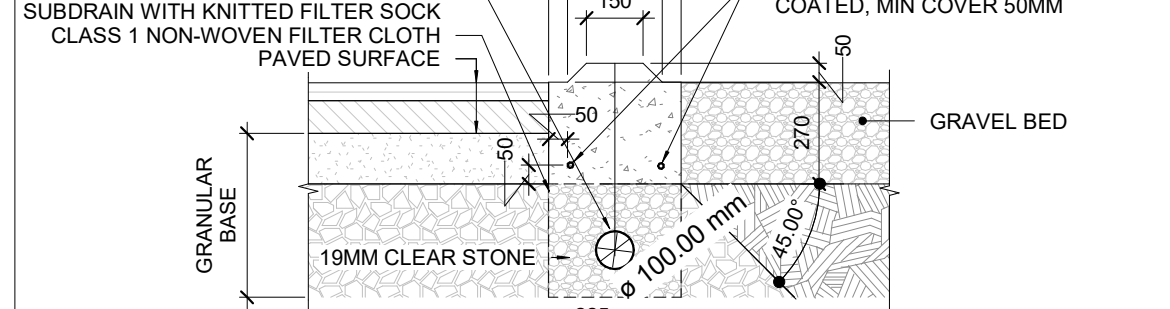
11-0007 - GD-2 - GENERATOR DETAIL (EXTERIOR)

\*\* WHERE GAS LINE TO GENERATOR IS BELOW GRADE REFER TO GAS TRENCH SUPPLY DETAIL (BELOW) INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODES

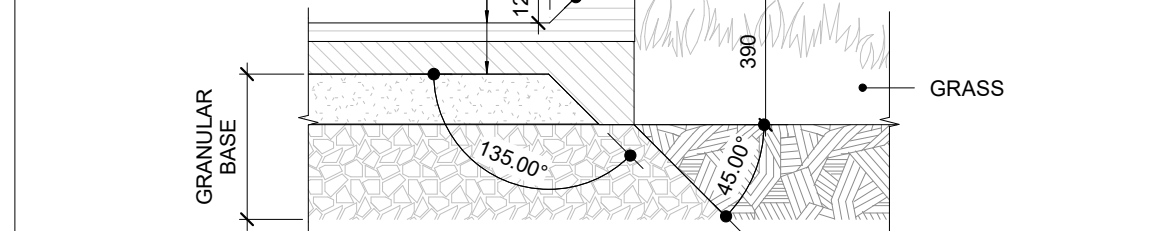


AODA MANDATORY REQUIREMENT

FLUSH TYPE CURB (FTC)

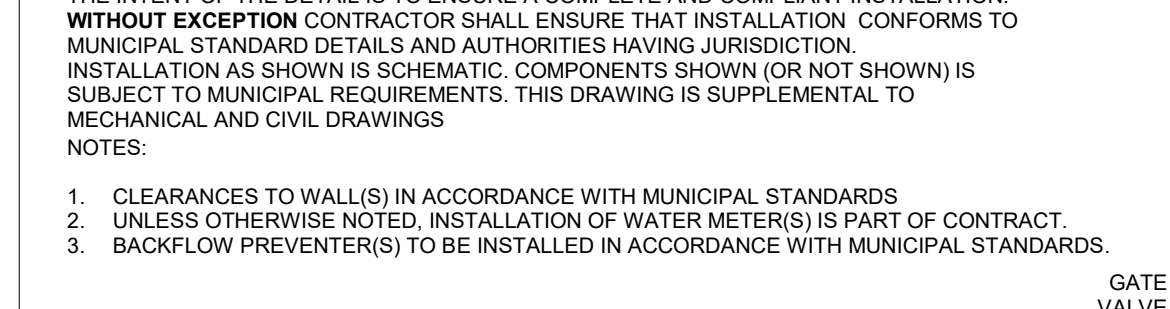


ASPHALT ROLLED TYPE CURB (ARTC)

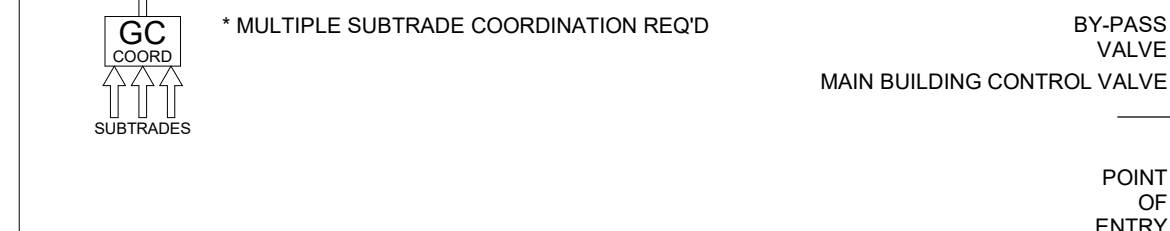


AODA MANDATORY REQUIREMENT

3 / A2.6 11-0003 - IWS-1 - INCOMING WATER SERVICE

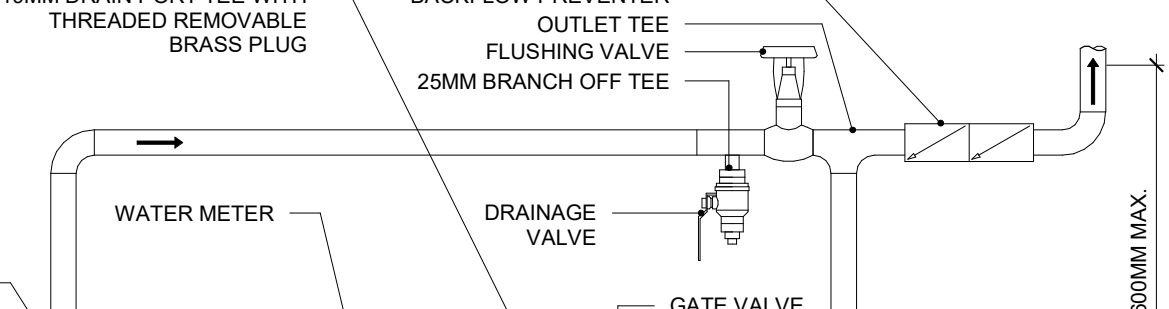


11-0003 - IWS-1 - INCOMING WATER SERVICE

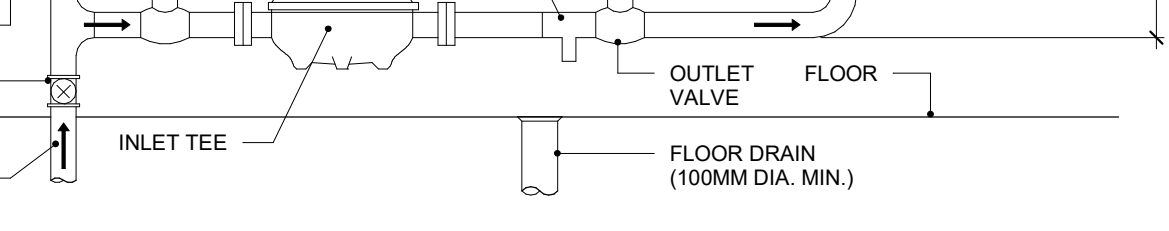


AODA MANDATORY REQUIREMENT

11-0003 - IWS-1 - INCOMING WATER SERVICE



11-0003 - IWS-1 - INCOMING WATER SERVICE



AODA MANDATORY REQUIREMENT

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
7	SPA ZONING REVIEW SUBMISSION	2020.11.10
8	90% CONTRACT DOCUMENTS	2020.12.03
11	SPA SUBMISSION 2	2023.06.05
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

YORK REGION PRS #33 RFTC  
397-21  
2960 TESTON ROAD, VAUGHAN

PROJECT:

CLIENT:

ARCHITECT

THOMASBROWNARCHITECTS

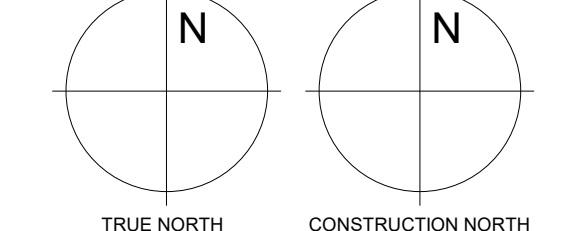
187 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

SITE PLAN DETAILS

ORIENTATION



DATE

2020-11-18

PROJECT NO.

1622

DRAWING NO.

A2.6

REVISION

19



6 / A2.7

305  
TYPICAL  
106  
273  
10  
457  
70  
40  
PANTONE 287 C  
150  
PANTONE 287 C

SIGN TYPE  
'VPS'

1. STANDARD FONT TYPE IS FUTURA MDBT IN PANTONE 287 C
2. WHITE BACKGROUND

305  
TYPICAL  
106  
273  
10  
457  
70  
40  
PANTONE 287 C  
150  
PANTONE 287 C

SIGN TYPE  
'IFS'

1. STANDARD FONT TYPE IS FUTURA MDBT IN PANTONE 287 C
2. WHITE BACKGROUND

305  
TYPICAL  
106  
273  
10  
457  
70  
40  
PANTONE 287 C  
150  
PANTONE 287 C

SIGN TYPE  
'NES'

1. STANDARD FONT TYPE IS ARIAL BOLD IN RED
2. WHITE BACKGROUND

305  
TYPICAL  
106  
273  
10  
457  
70  
40  
PANTONE 287 C  
150  
PANTONE 287 C

SIGN TYPE  
'FRS'

1. STANDARD FONT TYPE IS ARIAL BOLD IN BLACK
2. WHITE BACKGROUND

#### POST MOUNTED SIGN - FIXED POST

##### SIGN FACE

- 1.6mm THICK ALUMINUM SIGN BLANK
- HOLES - METRO PUNCH

##### MOUNTING

MOUNT SIGN FACE TO POST WITH TWO GALVANIZED 12mm HEX HEAD BOLTS AND NUTS WITH FLAT WASHERS ON BOTH SIDES. LEAVE NO MORE THAN THREE (3) EXPOSED THREADS BEYOND FACE OF POST.

##### POST

75mm dia. GALVANIZED STEEL POST c/w POST CAP IN 300mm dia. CONCRETE FOOTING

\* ALL SIGNS SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS.

CONFIRM PRIOR TO INSTALLATION

800  
TYPICAL

**STOP**

SIGN TYPE  
"RA-1"

1. STANDARD FONT TYPE IS HIGHWAY GOTHIC C IN WHITE
2. RED BACKGROUND
3. WHITE BORDER

305  
TYPICAL

150  
TYPICAL

**PEDESTRIAN  
AHEAD**

SIGN TYPE  
"PED-A"

1. STANDARD FONT TYPE IS ARIAL BOLD IN BLACK
2. WHITE BACKGROUND

4 / A2.7

2-019 - LSB - LOW - LIGHT STANDARD LOW BASE POLY

**LOW BASE**

CAST IN-PLACE CONCRETE BASE

GALVANIZED STEEL 'U' BOLTS AS SUPPLIED BY POLE MANUFACTURER

ALUMINUM COLOR ACCENT BAND

PREFABRICATED CONCRETE FORM

REMOVE PREFABRICATED FORM WITHIN 24 HOURS OF POUR. WIRE BRUSH TO REMOVE REMAINING FORM MATERIAL. USE RUBBING STONE TO REMOVE ROUGH EDGES AND VERTICAL SEAMS.

IF THERE IS RISK OF DAMAGE DURING SUBSEQUENT WORK, FORM HALVES CAN BE WIRE TIED AROUND FINISHED WORK TO PROTECT FROM DAMAGE UNTIL WORK IS COMPLETE GRADE.

510 DIA.  
460 DIA.

POLE CENTERLINE 900mm FROM BACK FACE OF CURB. (WHERE APPLICABLE)

900

LIGHT POLE POLE BASE COVER LOCK NUTS LEVELING NUTS ACCENT BAND

50 ABOVE

50

BACK FACE OF CURB

TOP OF CONVENTIONAL FIBER TUBE FORM AT 50 BELOW FINISHED GRADE

30mm RIGID PVC CONDUIT SLEEVE - 915 RADIUS (REFER TO ELECTRICAL)

15mm RIGID CONDUIT SLEEVE FOR GROUND CONNECTION AS REQUIRED & SPECIFIED-SEE DWGS. (REFER TO NOTE 8-20M REINFORCED RODS & 10M TIES PER ONTARIO PROVINCIAL STANDARD DRAWING OPSD-2200.01

BASE BURIAL DEPTH 'D' (SEE ALSO NOTE 5)

900

FIBER FORM

19MM DIA. 3M LONG COPPER COATED STEEL GROUNDING ROD (SCHEMATIC LOCATION ON SITE)

460 DIA.

POLE LENGTH (m)	BASE BURIAL DEPTH 'D' (m)	REINFORCING ROD LENGTH (m)
2.6	1.50	H + 1.50
5.6	2.15	H + 2.00
7.0	2.15	H + 2.00
7.8	2.15	H + 2.00
8.7	2.45	H + 2.30
9.0	2.45	H + 2.30
10.5	2.60	H + 2.45

NOTES:

- CAST-IN-PLACE CONCRETE MECHANICALLY VIBRATED AND HAND TAPPED TO ENSURE BEST FINISHED RESULT. TOP OF BASE SHALL BE TROWELLED SMOOTH AND LEVEL.
- NOTE: POOR FINISHED RESULTS WILL BE REJECTED AND REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
- CONCRETE SHALL BE 25mpa, 5% AIR ENTRAINED, CLASS-C2 EXPOSURE. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONCRETE FOUNDATION. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLANT PRIOR TO SETTING CONCRETE SLEEVES.
- PROVIDE A 19mm DIAMETER 3000mm STEEL COPPER COATED GROUND ROD ADJACENT TO POLES IN ACCORDANCE WITH ESA AND ANY OTHER AUTHORITIES HAVING JURISDICTION. CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR.
- POLE BASE BURIAL DEPTH SHALL BE IN ACCORDANCE WITH TABLE (INSERT). POLE INSTALLATION IS SUBJECT TO SOIL CONDITIONS. POLE INSTALLATION IS SUBJECT TO SOIL CONDITIONS. INDEPENDENT INSPECTION AND TESTING COMPANY TO CONFIRM SUBGRADE CAPACITY PRIOR TO PLACEMENT.

2 / A2.7

2-0030 - TF-2 - TYPICAL FENCE PANEL

**TYPICAL FENCE PANEL**

1. HORIZONTAL COMPOSITE FENCE BOARDS SCREWED TO PT WOOD CLEAT @ 150MM o/c (10 MM GAP). SCREWS TO BE PAN-HEAD TYPE. PRE-DRILL FENCE BOARDS PRIOR TO INSTALLATION.
2. PT WOOD CLEAT BOLTED TO FENCE POSTS. BOLTS SHALL BE 9.5mm DIA. CARRIAGE BOLTS C/W WASHERS & NYLON INSERT LOCK NUTS (4 BOLTS PER BOARD). COUNTERSINK NUT AND WASHER AS SHOWN

**FENCE SECTION**

1200  
MIN. POST HEIGHT  
300 DIA.  
MIN. FOOTING DEPTH  
960  
PATIO (OR BACK) SIDE  
TOP ANGLE (INSTALL LEVEL & 90deg. TO FENCE POSTS)  
LINE OF VERTICAL FENCE POST BEYOND  
LINE OF PT WOOD CLEAT BOLTED TO ANGLE  
COMPOSITE BOARD (HORIZONTAL)  
BOTTOM ANGLE (INSTALL LEVEL & 90deg. TO FENCE POSTS)  
SLOPE TOP OF FOOTING  
FINISHED GRADE

**TOP OF FENCE**

102x76x4.8 TOP ANGLE (102 LEG AT TOP)  
BACK-TO-BACK 1.89x102x4.8 ANGLES (FENCE POSTS) (102 LEG AT BACK)  
38x89 PT WOOD CLEAT BOLTED TO ANGLE. FENCE BOARD SCREWED TO CLEAT  
32 x140 COMPOSITE BOARD (5/4 NOMINAL)  
BACK-TO-BACK L76x76x4.8 ANGLES (FENCE POSTS)  
38x89 PT WOOD CLEAT BOLTED TO ANGLE  
32 x140 COMPOSITE BOARD (5/4 NOMINAL)  
76x76x4.8 BOTTOM TOP OF FOOTING

**BASE OF FENCE**

**PLAN FENCE DETAIL**

CONCRETE FOOTING  
PATIO (OR BACK) SIDE  
CHAMFER CLEAT TO SEAT TIGHT INTO FENCE POST (TYP.)  
TOP OF FOOTING  
32 x140 COMPOSITE BOARD (5/4 NOMINAL)  
BOTTOM ANGLE BELOW (TOP ANGLE ABOVE)  
PT WOOD CLEAT BOLTED TO CARRIAGE CLEAT & WASHERS - 4 PER CLEAT  
FENCE POSTS  
TOP OF FOOTING  
GATE LATCH  
GATE HINGES

GATE SWING (SEE ALSO 2-0017 - TF-2)

**NOTES:**

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

ALL STEEL GALVANIZED  
ENGINEERED  
SUBMITTAL  
SIGNOFF  
RECORD



ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
18	100% CLIENT REVIEW	2024-09-05
19	TENDER	2025-10-30

PROJECT:  
**YORK REGION PRS #33 RFTC**  
**397-21**

2960 TESTON ROAD, VAUGHAN

CLIENT

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

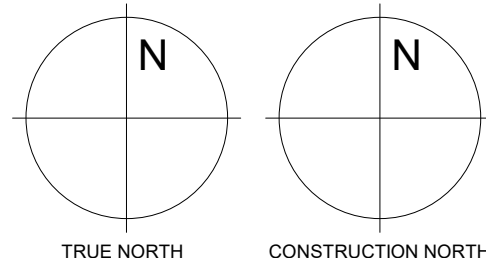
ARCHITECT  
**THOMASBROWNARCHITECTS**  
187 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

**CANOPY DETAILS/  
FOUNDATION &  
ROOF PLANS**

ORIENTATION

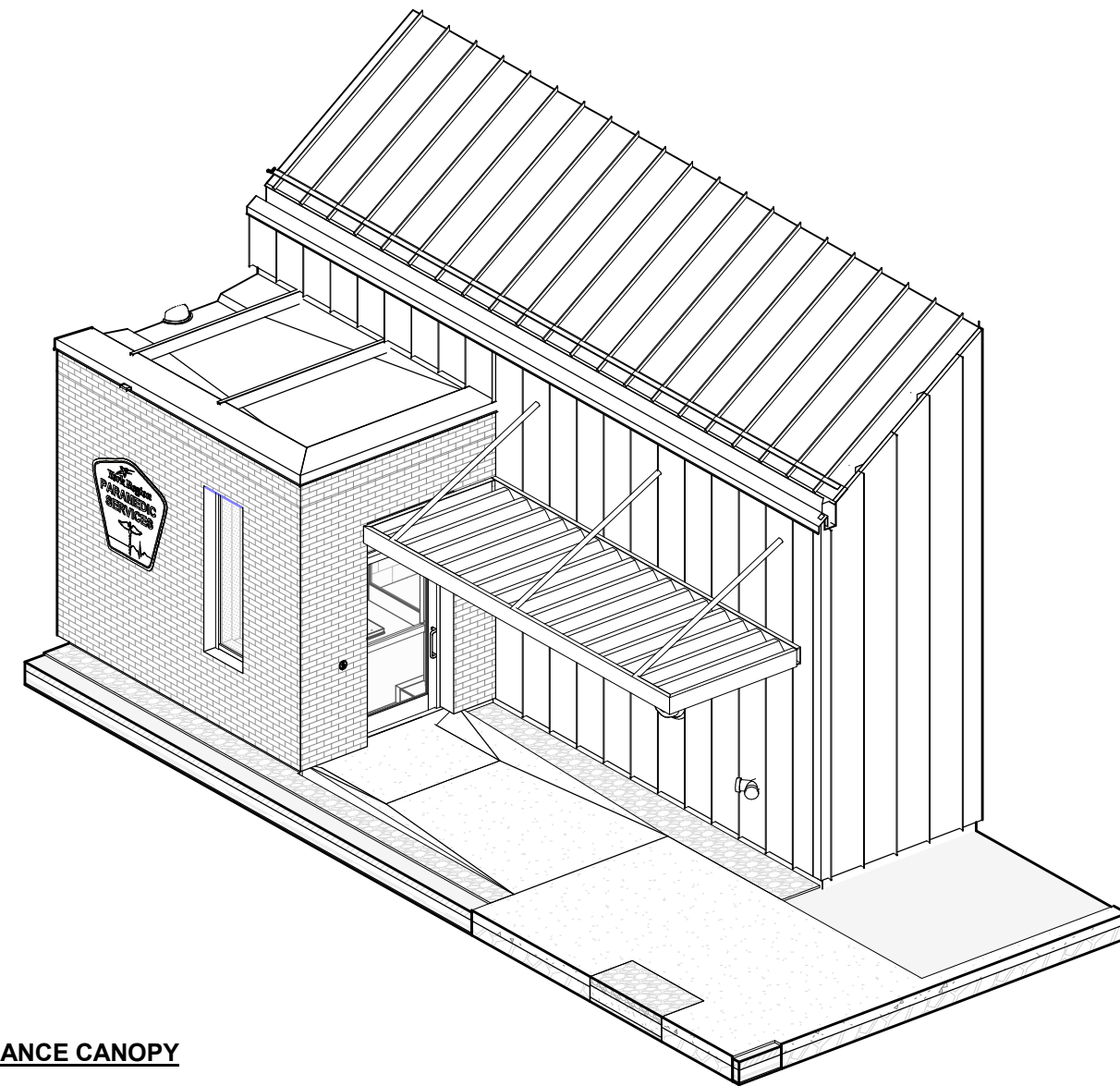


DATE  
**2020-11-18**

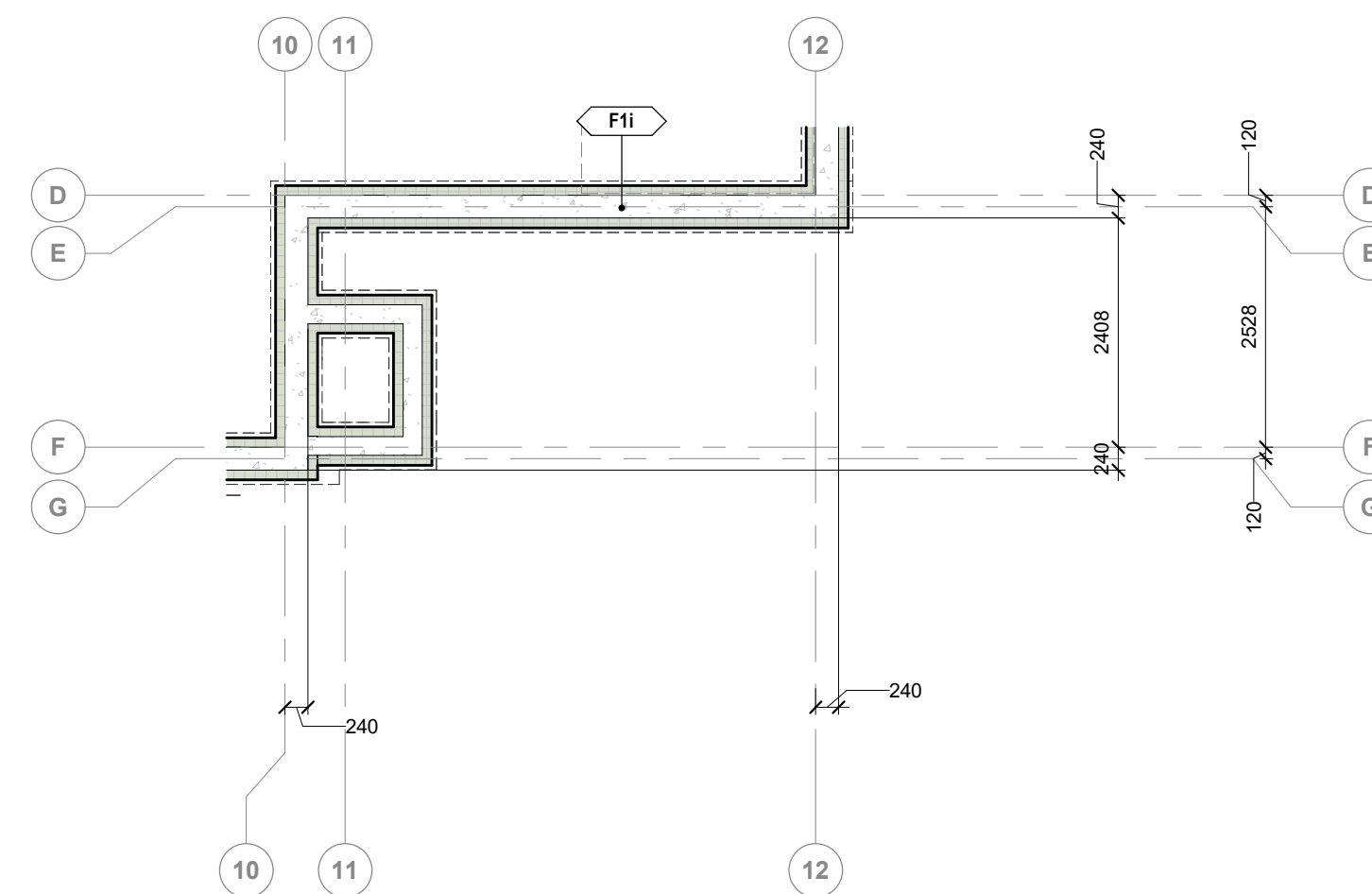
PROJECT No.  
**1622**

DRAWING No.  
**A2.8**

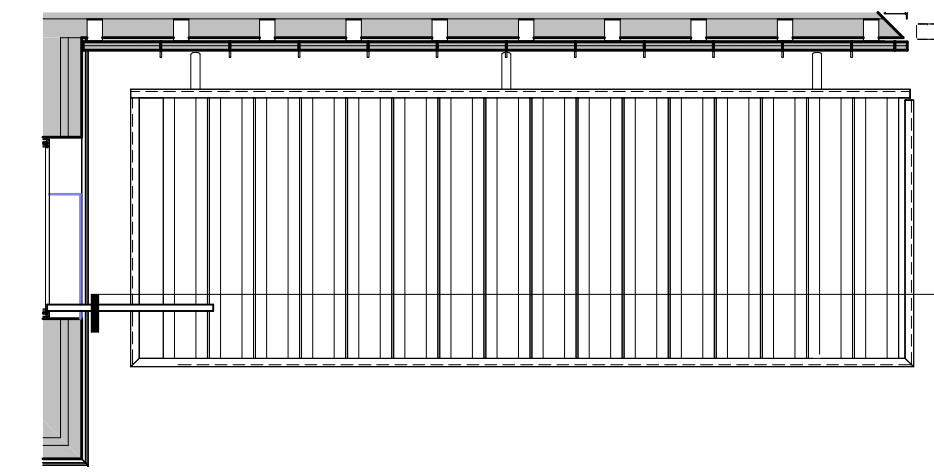
REVISION  
**19**



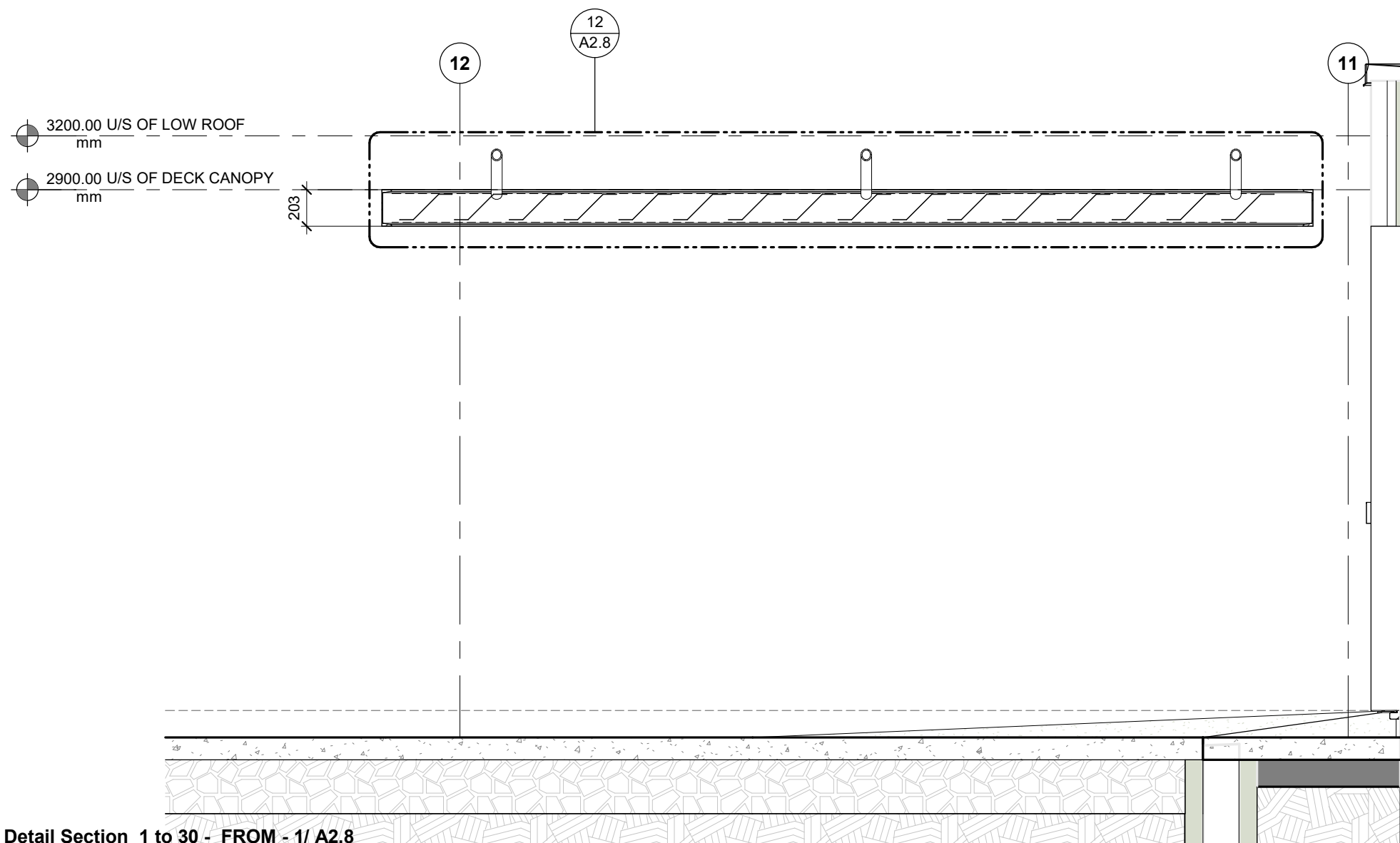
5 **ENTRANCE CANOPY**



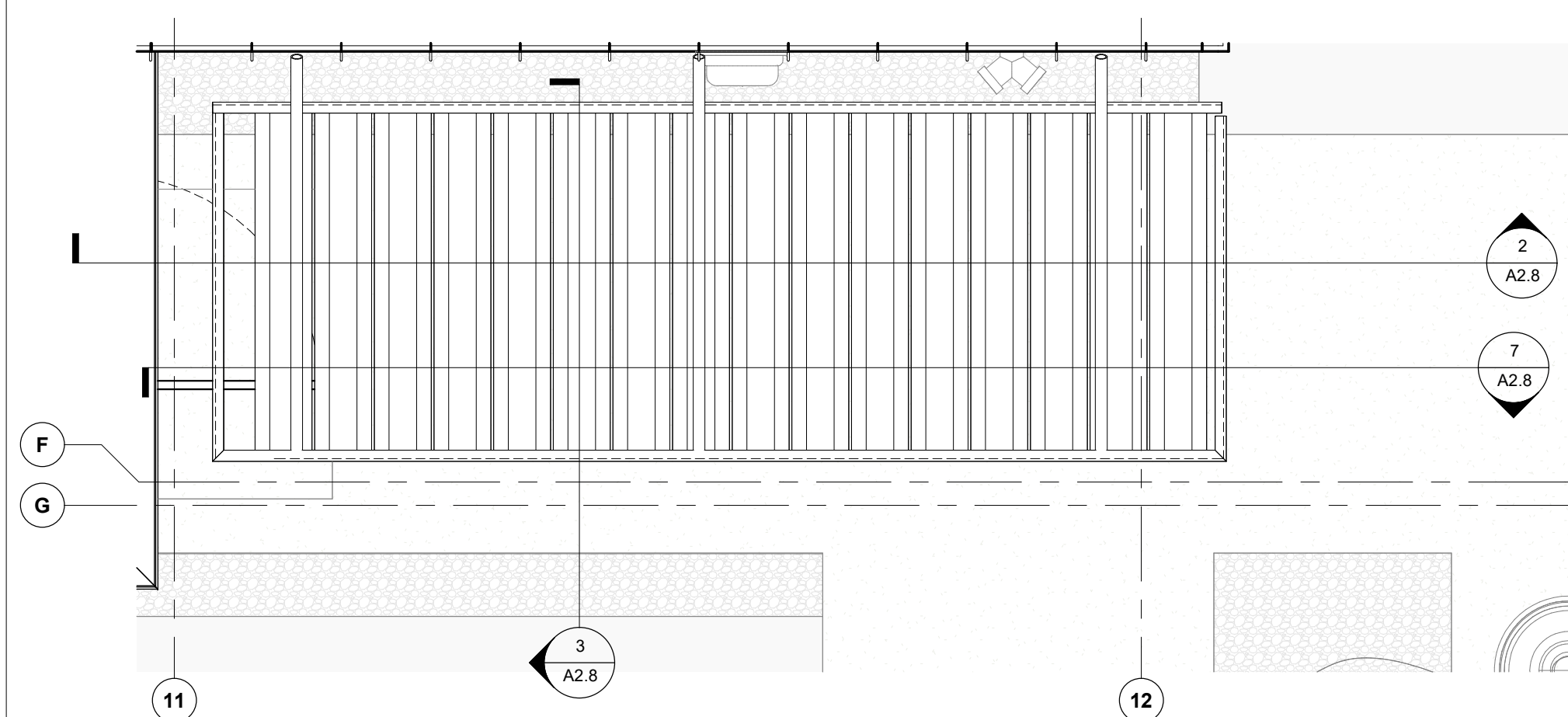
4 **2 - Floor Plans - FROM - 2/ 0000**  
1 : 75



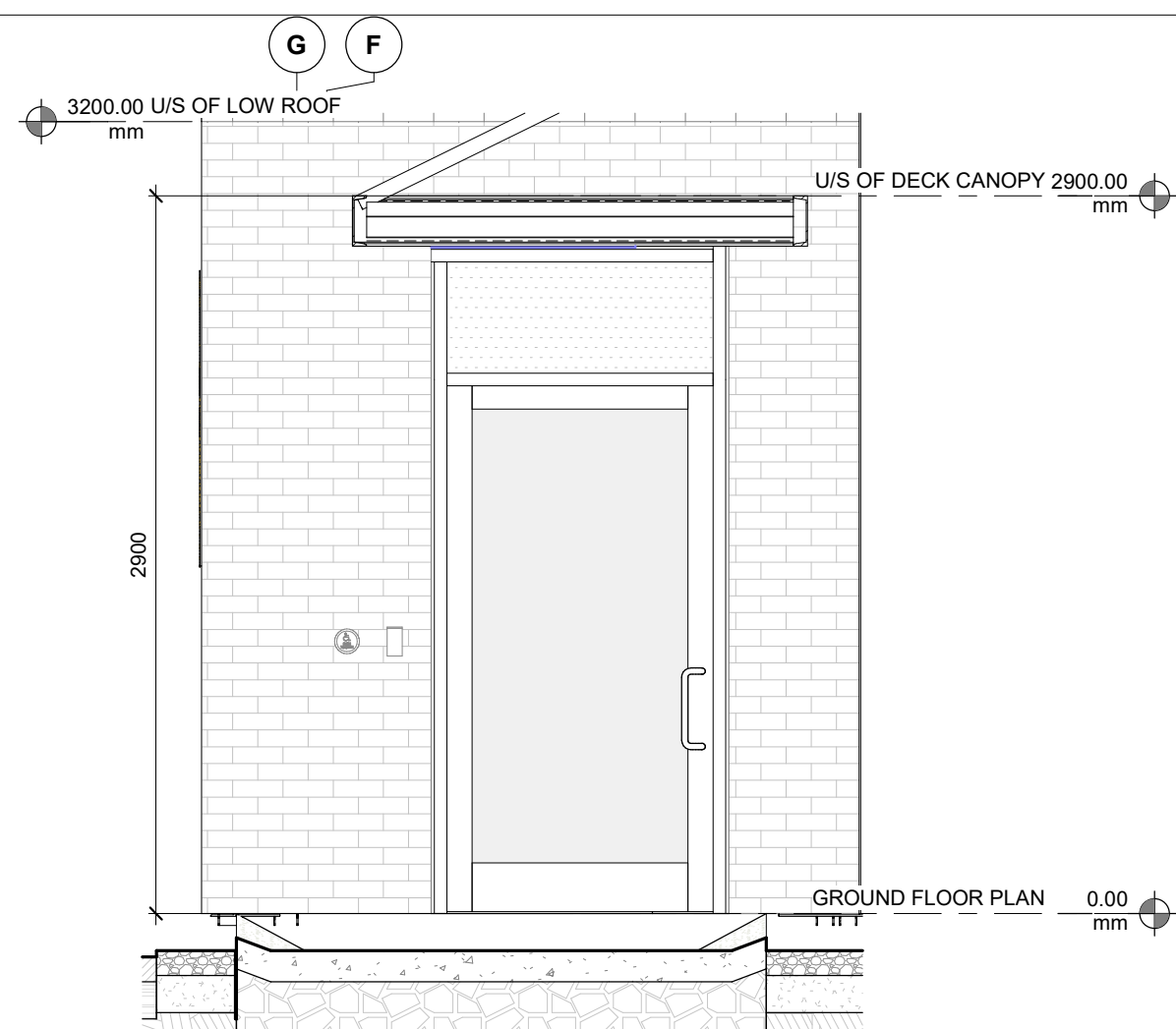
6 **1 - Ceiling Plans - FROM - 1/ A10.1**  
1 : 50



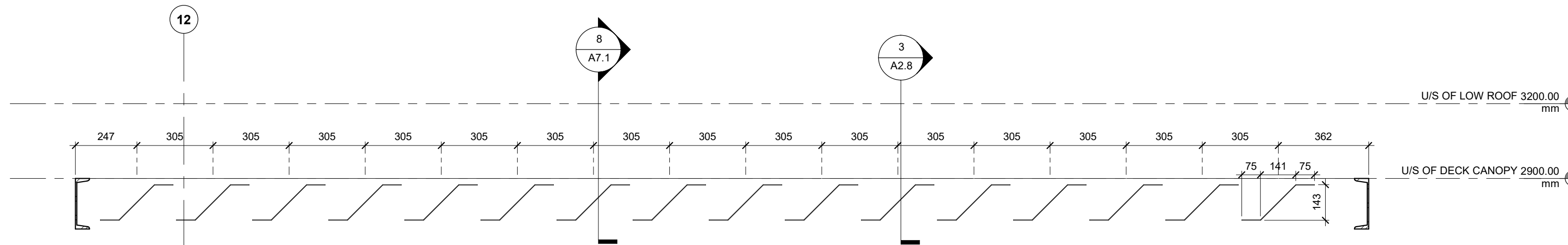
7 **Detail Section 1 to 30 - FROM - 1/ A2.8**  
1 : 30



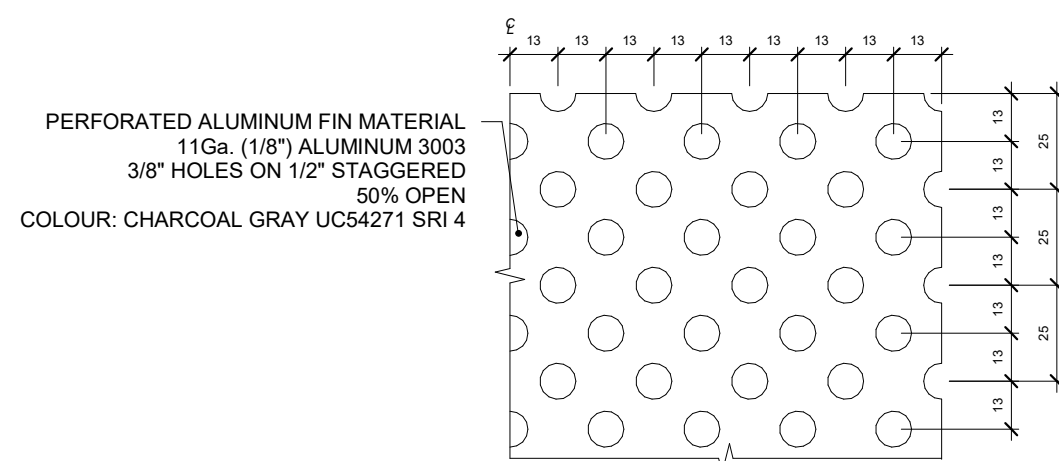
1 **2 - Floor Plans - FROM - 1/ A2.4**  
1 : 30



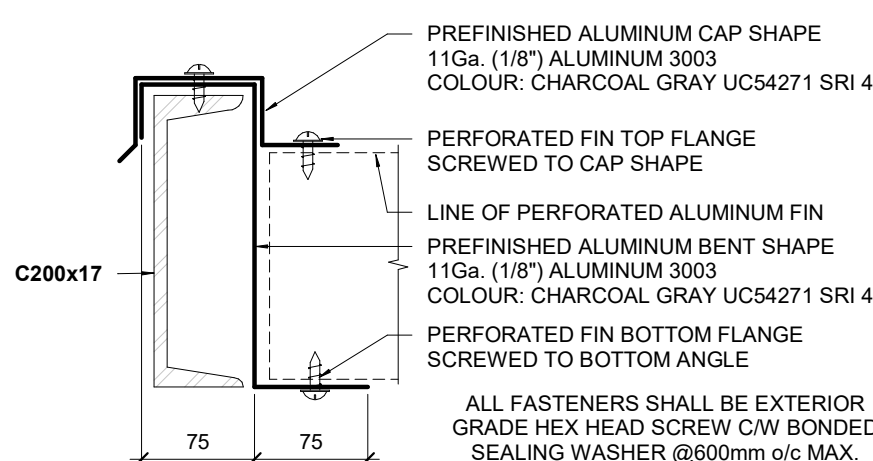
3 **Detail Section 1 to 30 - FROM - 1/ A2.8**  
1 : 30



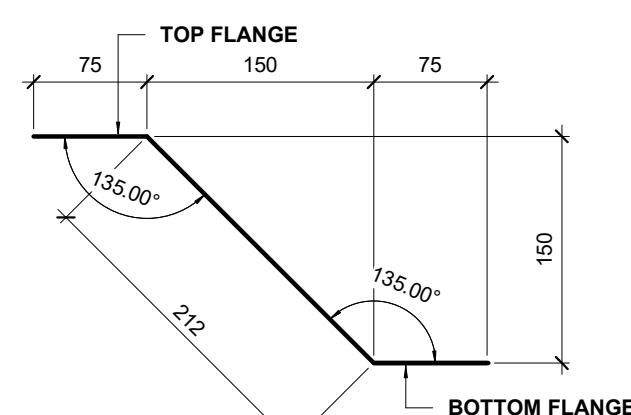
12 **Wall Section 1 to 25 - FROM - 7/ A2.8**  
1 : 15



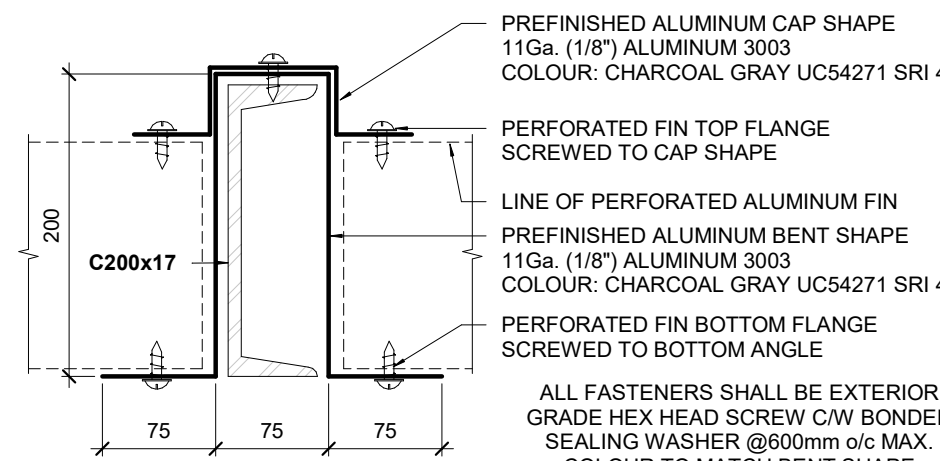
9 **PERFORATED ALUMINUM FIN PATTERN DETAIL**  
1 : 2



11 **PERIMETER HANGER HAT DETAIL**  
1 : 5



10 **PERFORATED FIN SECTION**  
1 : 5

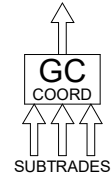


8 **INTERMEDIATE HANGER HAT DETAIL**  
1 : 5



2 / A3.1 A700 GENERAL NOTES - FOUNDATION PLAN

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



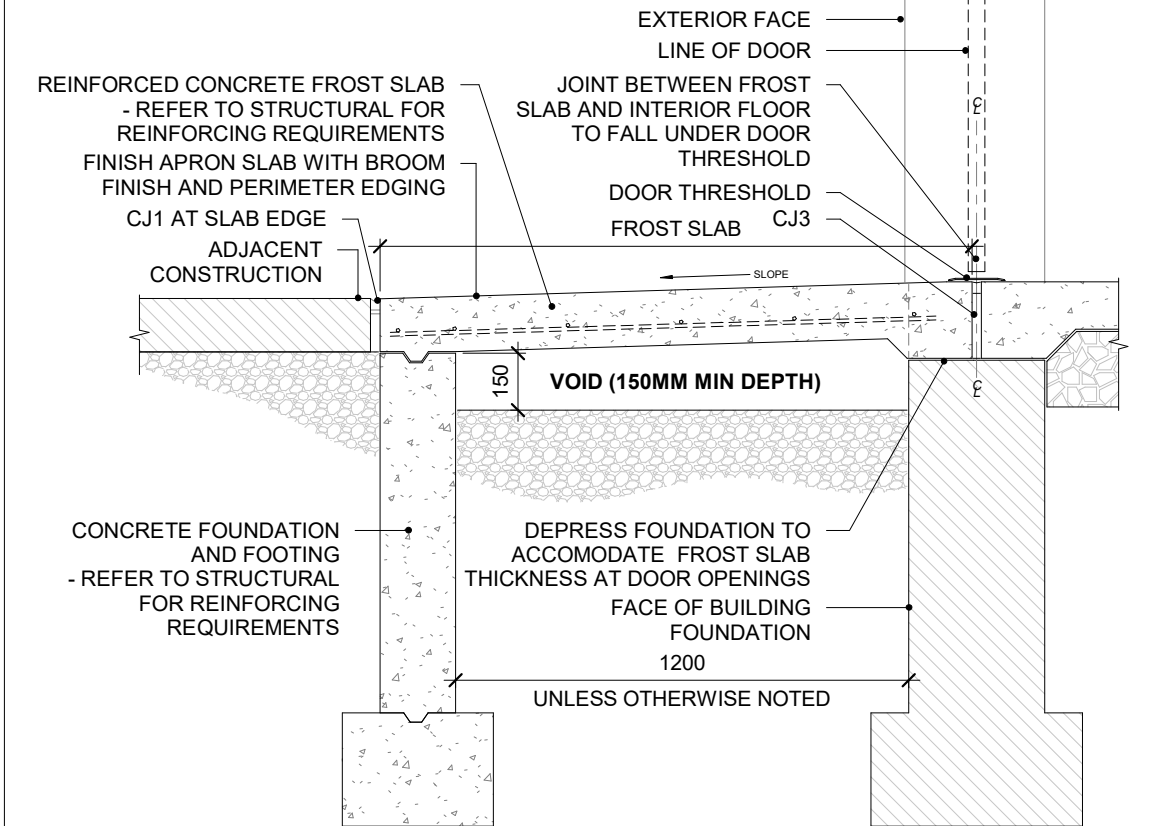
3 / A3.1 3-0004 - FS-1 - FROST SLAB DETAILS

THE INTENT OF THE FROST SLAB IS TO PROTECT THE EXTERIOR SLAB FROM HEAVING DUE TO FROST OR SETTLEMENT THEREBY ENSURING THAT THE TOP OF EXTERIOR SLABS ALIGN WITH THE TOP OF INTERIOR FLOORS

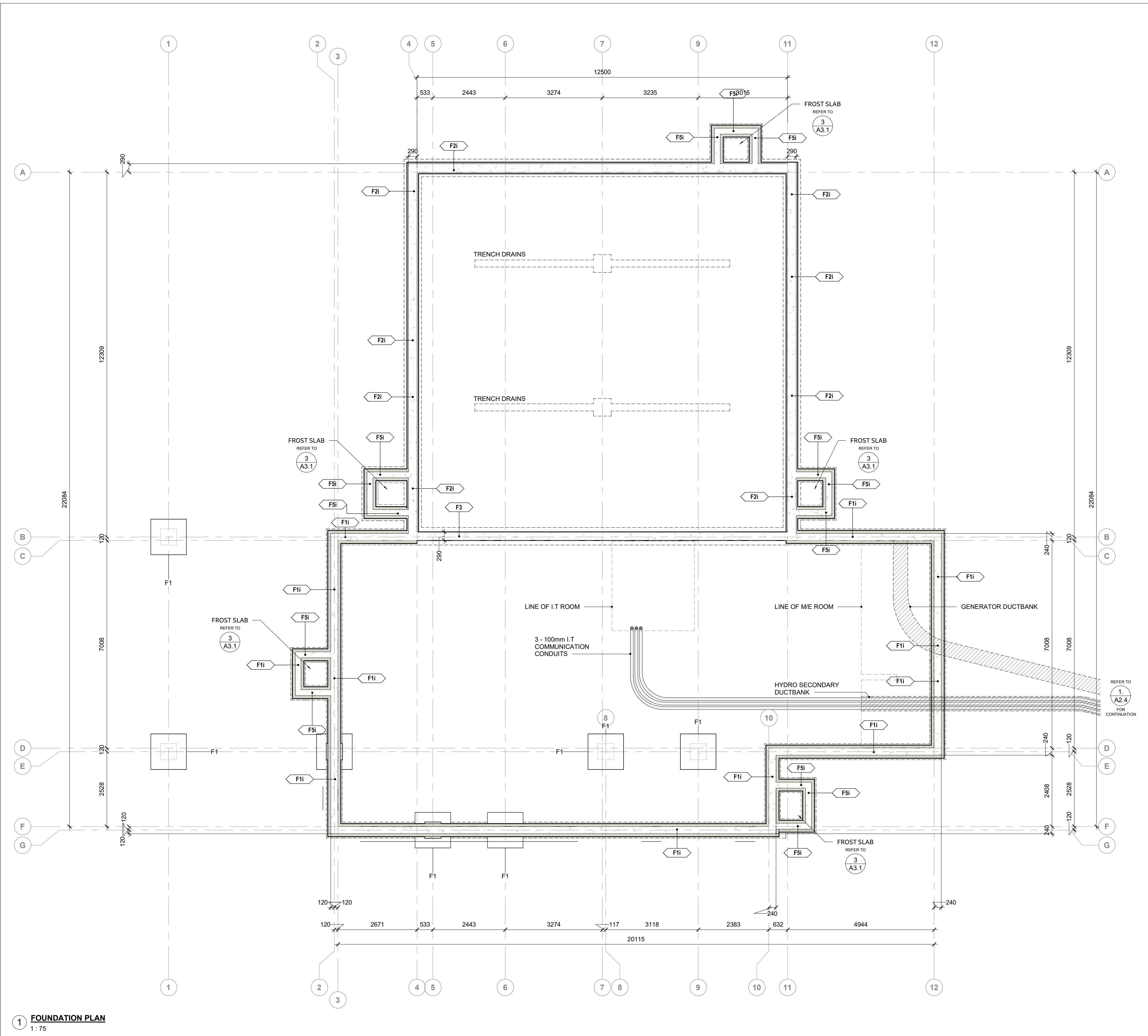
PRIOR TO PLACEMENT DO THE FOLLOWING:

- DETERMINE THE LOCATION OF DOOR THRESHOLD AND ENSURE THAT C/J JOINT FALLS UNDERNEATH
- ENSURE THAT FROST SLAB SLOPES DOWN FROM C/J JOINT TO DIRECT WATER AWAY FROM BUILDING

**UNDER NO CIRCUMSTANCES SHALL WATER BE DIRECTED TOWARD BUILDING**



ALL REINFORCING STEEL EPOXY COATED



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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT: YORK REGION PRS #33 RFTC 397-21

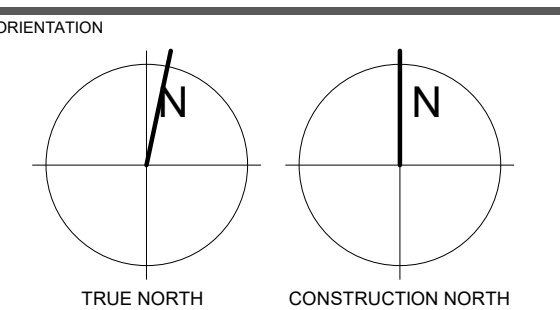
CLIENT: 2960 TESTON ROAD, VAUGHAN

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

ARCHITECT THOMASBROWNARCHITECTS 167 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE FOUNDATION PLAN



DATE 2020-11-18

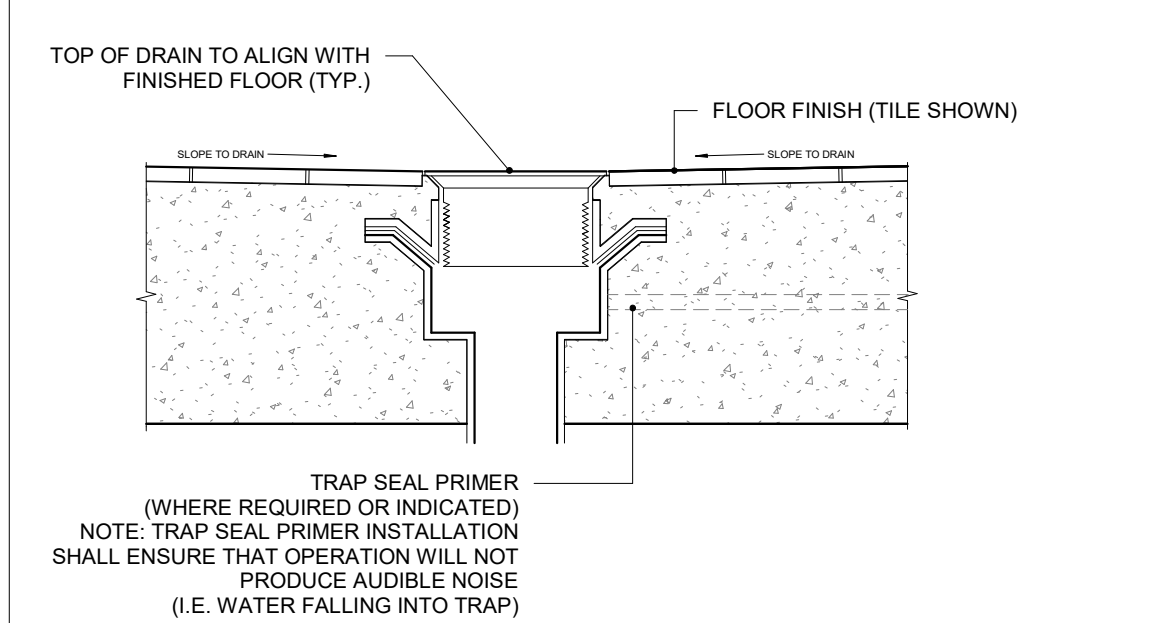
PROJECT No. 1622

DRAWING No. A3.1 REVISION 19

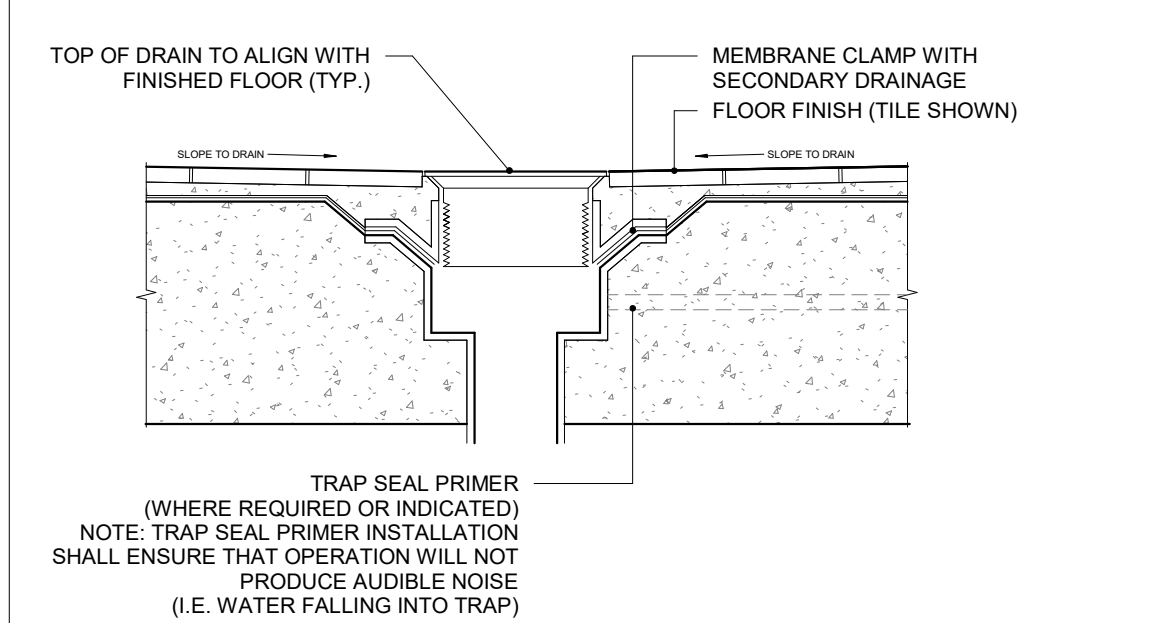
2025-11-02 9:55:39 PM



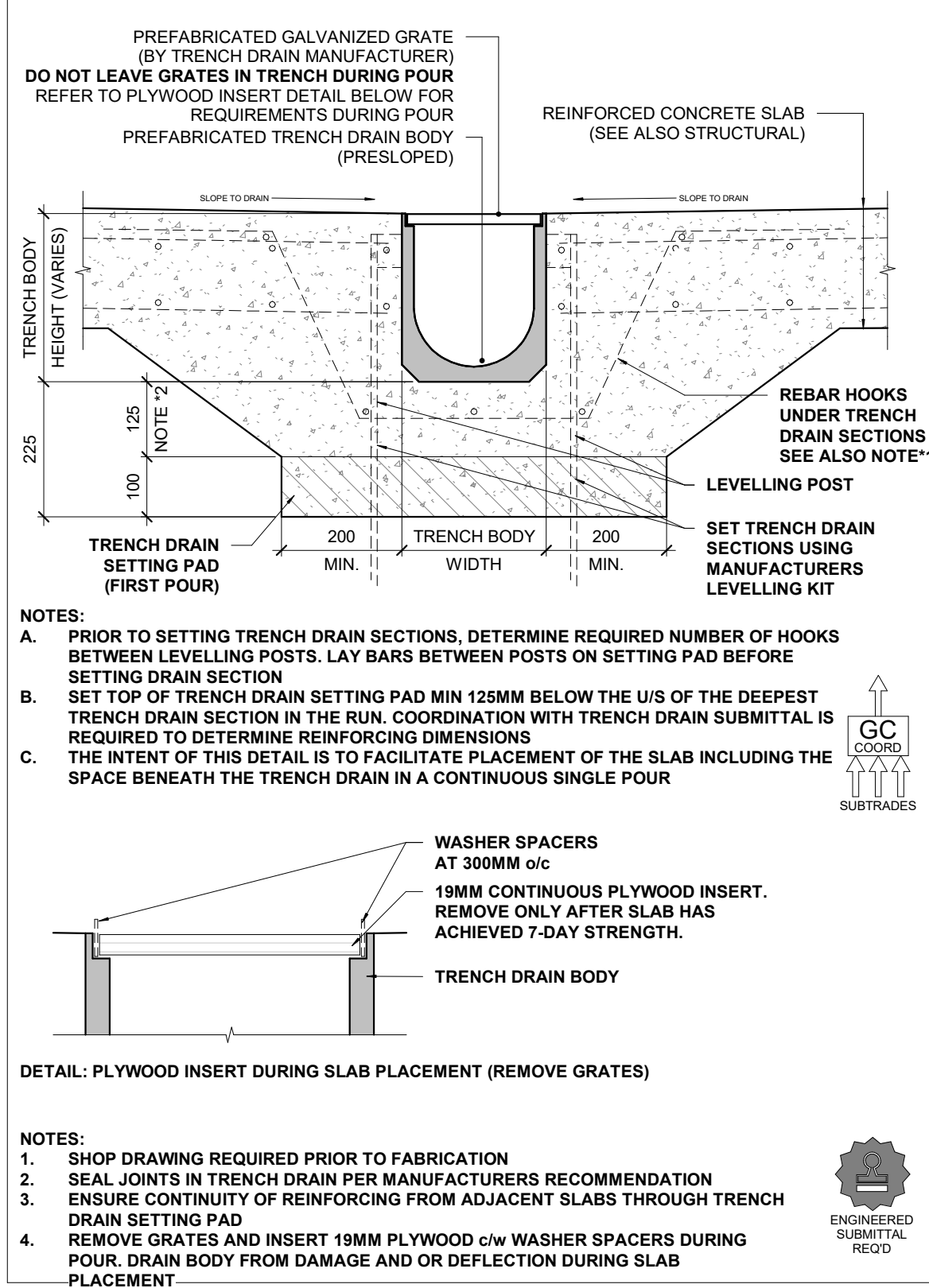
4 / A3.2 9-0008 - FD-1 - TYPICAL FLOOR DRAIN - SLAB ON GRADE



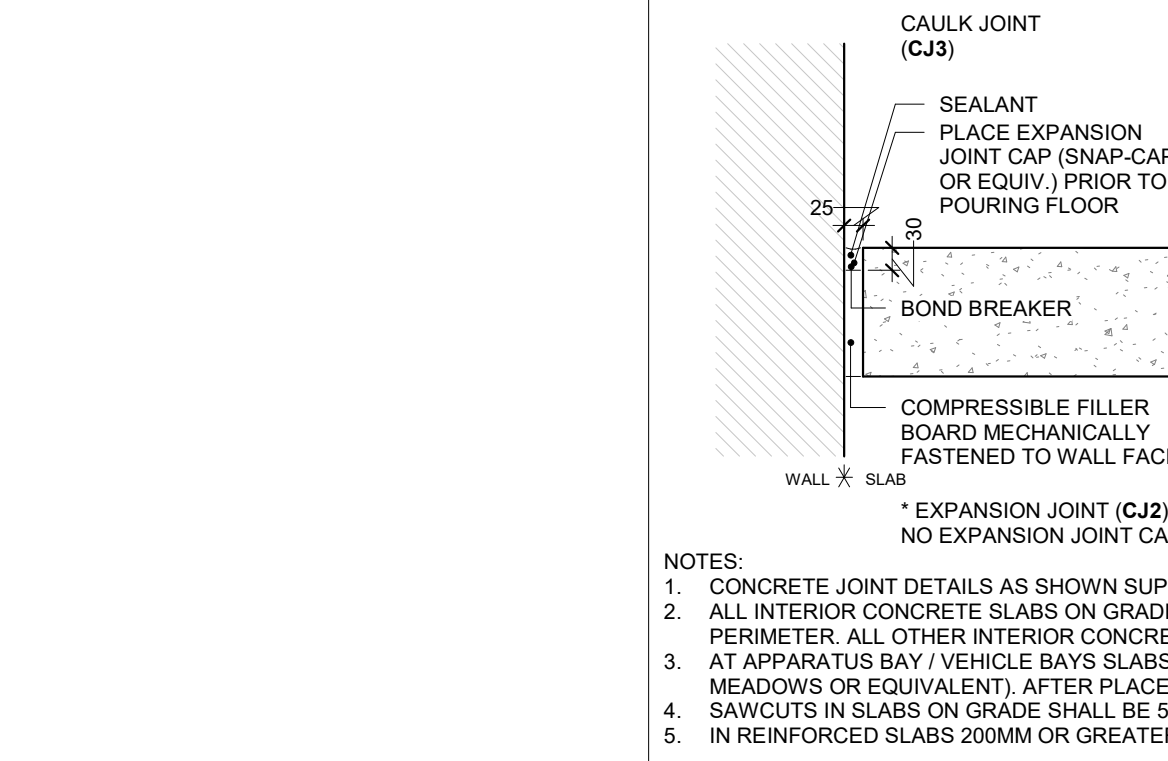
5 / A3.2 9-0008.1 - SD-1 - TYPICAL SHOWER DRAIN - SLAB ON GRADE



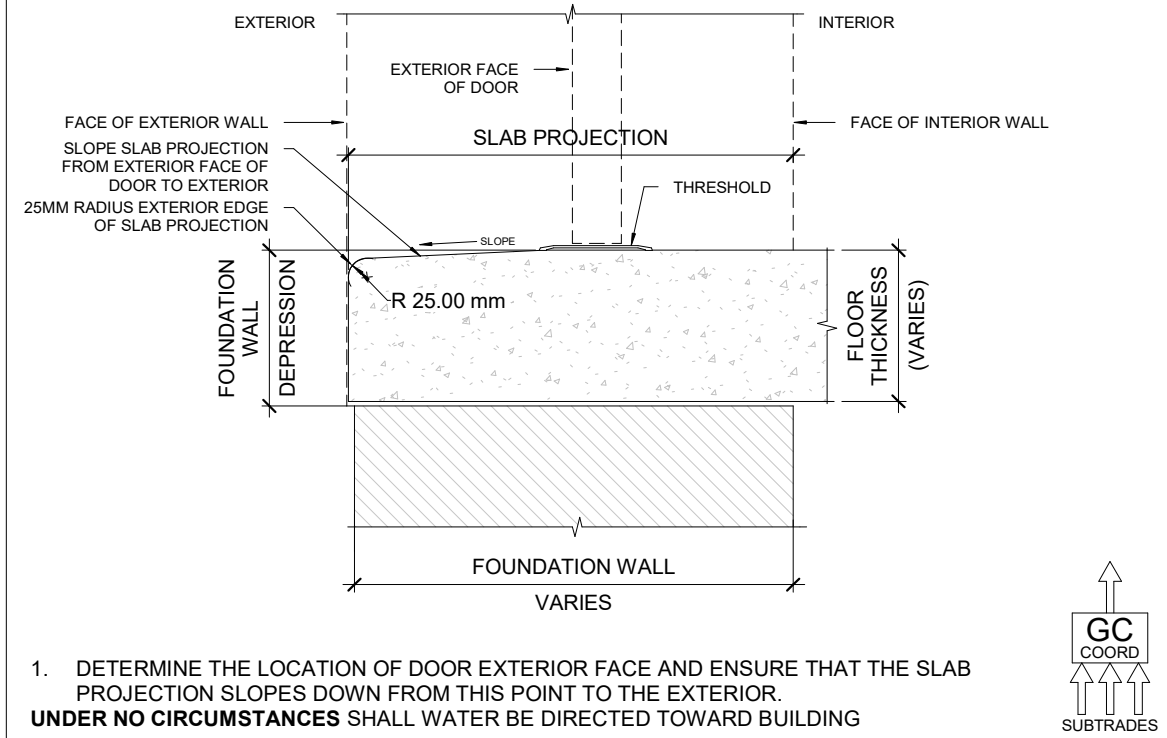
7 / A3.2 10-0001 - TD-1 - TRENCH DRAIN DETAIL



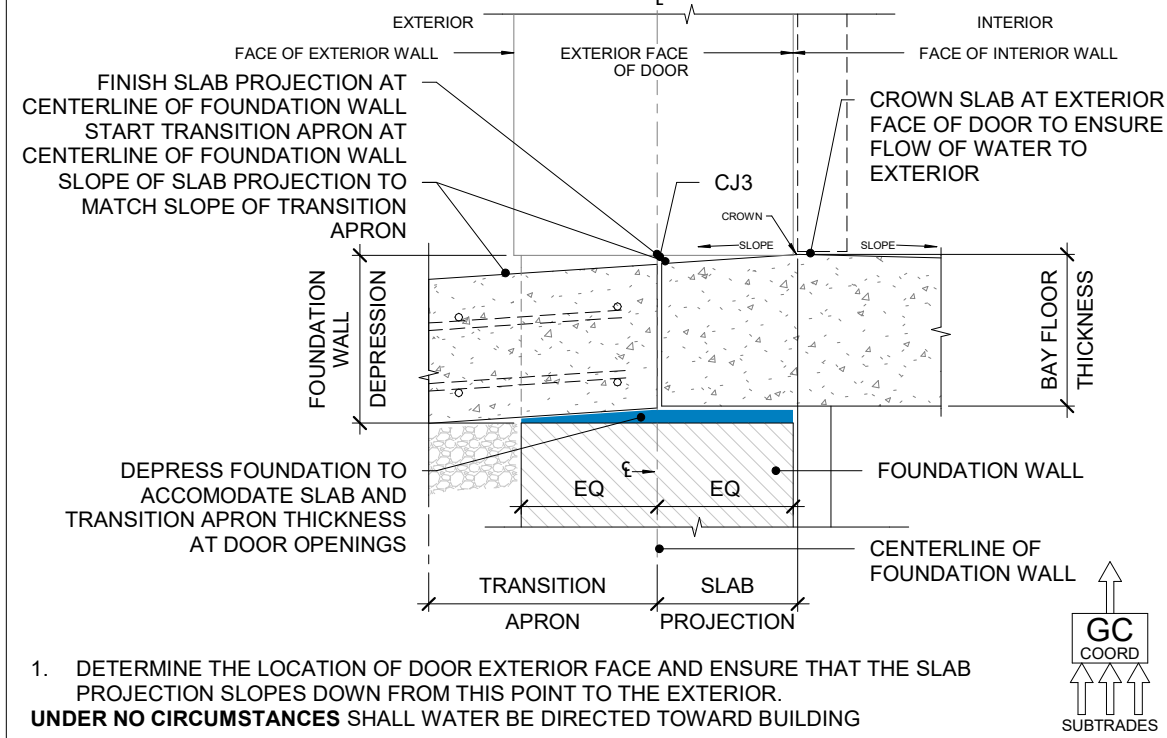
8 / A3.2 3-0003 - CJ - TYPICAL CONCRETE JOINTS



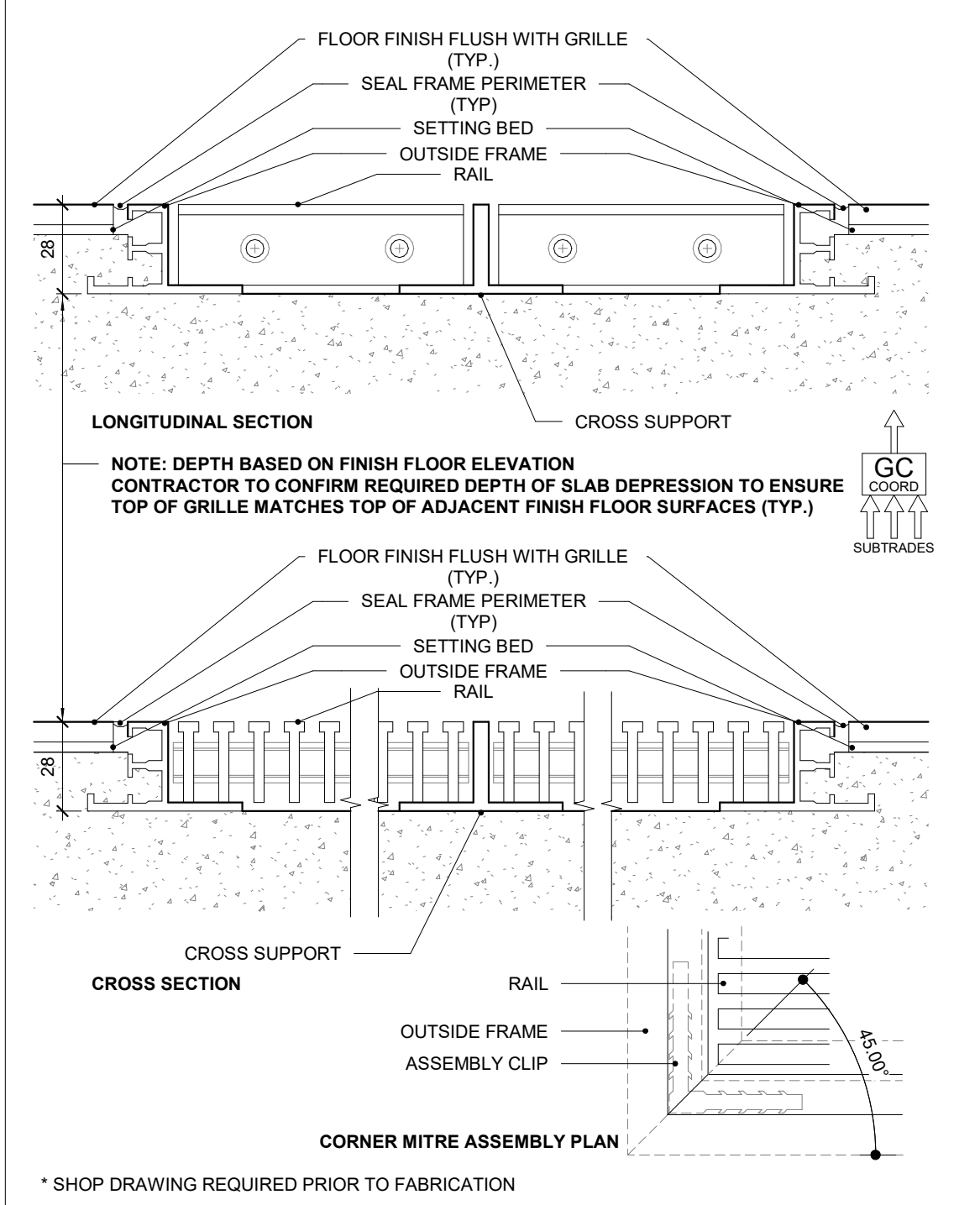
2 / A3.2 3-0005 - SE-1 - SLAB EDGE DETAIL



3 / A3.2 3-0006 - SE-2 - SLAB EDGE DETAIL BAY DOORS

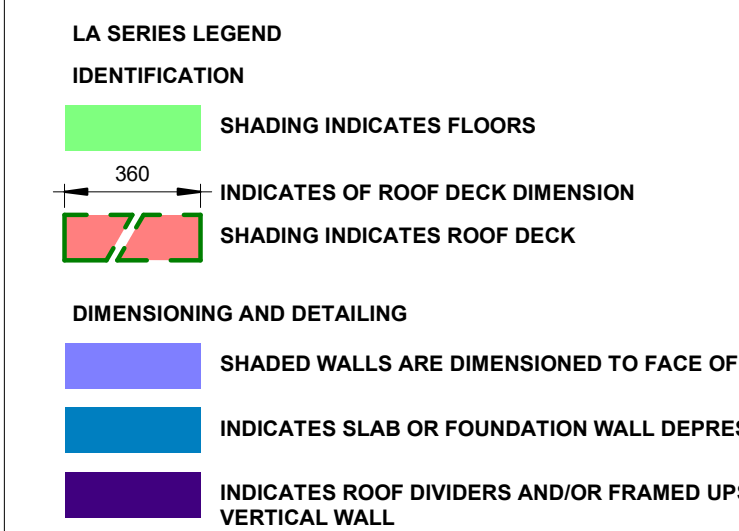


6 / A3.2 12-0002 - FG-1 FLOOR GRILL

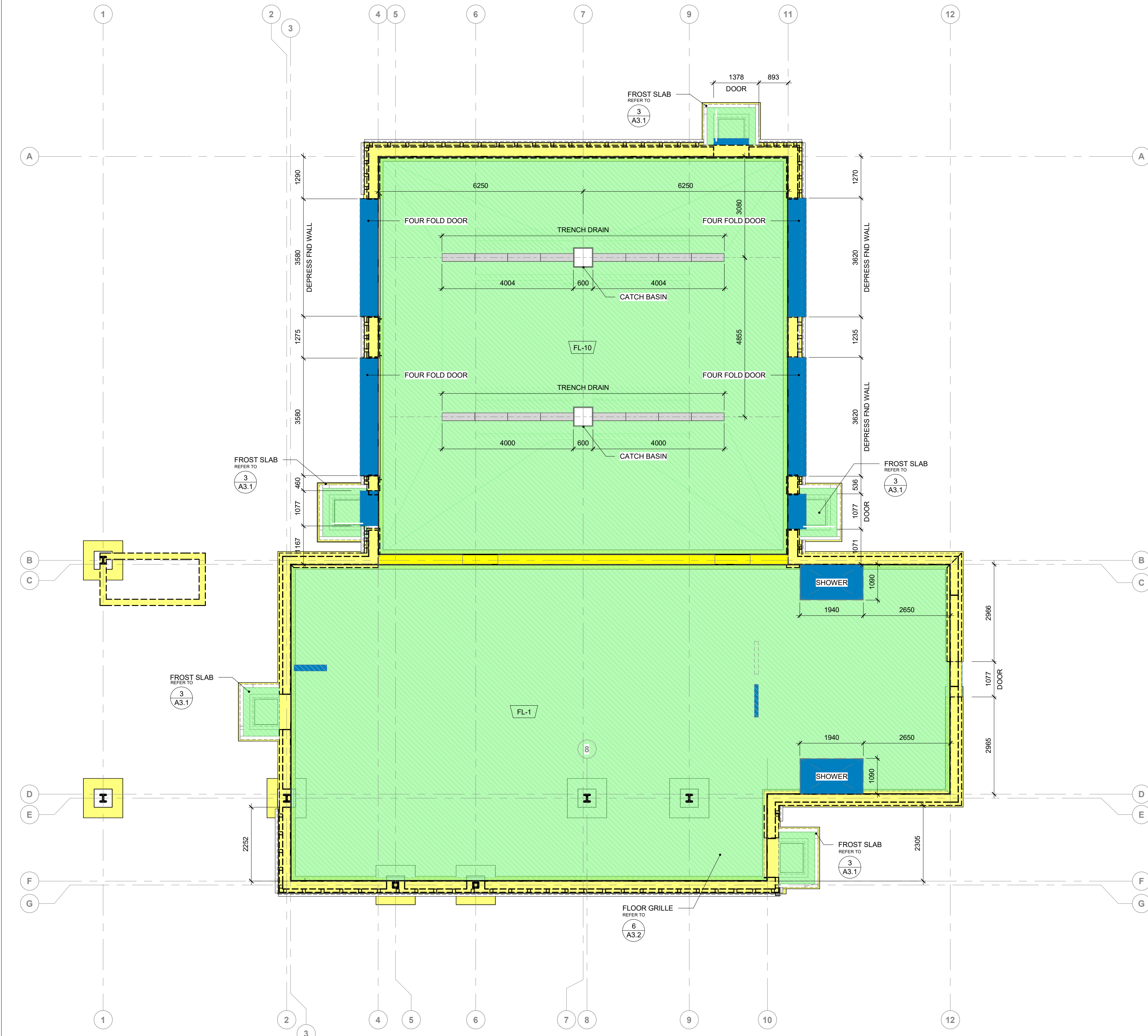


1 LAYOUT PLAN - FOUNDATION & GROUND FLOOR

1:75



NOTE  
A - CONCRETE UPSTAND  
RAISED CONCRETE FOUNDATION  
WALL FOR FERRO BRACKET AT  
BRICK LOCATIONS



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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

YORK REGION PRS #33 RFTC  
397-21  
2960 TESTON ROAD, VAUGHAN

PROJECT:

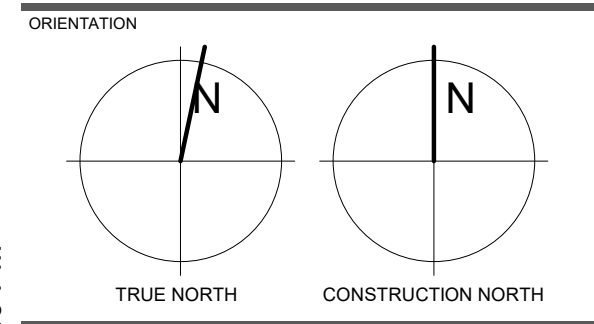
CLIENT

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

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

PROFESSIONAL SEAL

LAYOUT PLAN -  
FOUNDATION &  
GROUND FLOOR



DWG TITLE	2020-11-18
DATE	1622
PROJECT NO.	1622
DRAWING NO.	A3.2
REVISION	19

2025-11-02 9:55:40 PM



3 / A3.3

A700 GENERAL NOTES - APPARATUS / VEHICLE BAYS

APPARATUS / VEHICLE BAY SLABS ARE REINFORCED CONCRETE SLABS THAT MUST BE PREPARED PROPERLY PRIOR TO EXECUTION. LISTED BELOW ARE ITEMS THAT MUST BE COORDINATED TO ENSURE A SUCCESSFUL RESULT.

- WHERE SLABS ABUT A WALL, THE WALL MUST BE SMOOTH AND FREE OF PROJECTIONS SO THAT THE EXPANSION JOINT SITS DIRECTLY AGAINST THE WALL. THIS ALLOWS FOR A CLEAN AND CONSISTENT CAULKED JOINT WHEN FINISHED.
- EXPANSION JOINT MUST BE SET WITH AN EXPANSION JOINT CAP (SNAP-CAP AS MANUFACTURED BY WR MEADOWS OR EQUIVALENT). AFTER PLACEMENT OF SLAB, REMOVE TOP OF EXPANSION JOINT CAP AND CAULK JOINT.
- WHERE SLABS ABUT OVERHEAD DOORS OR DOOR OPENINGS, SLAB MUST BE CROWNED BENEATH DOOR TO ENSURE FLOW OF WATER FROM EXTERIOR FACE OF DOOR TO EXTERIOR. AT DOOR OPENINGS, EXTEND SLAB TO MIDDLE OF SUPPORTING FOUNDATION WALL TO ABUT TO REINFORCED EXTERIOR CONCRETE APRON.
- TRENCH DRAINS MUST BE PROPERLY SET IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND MANUFACTURERS RECOMMENDATIONS PRIOR TO PLACEMENT OF SLABS. PROVIDE PROPER SPACERS IN TOP OF TRENCH DRAIN TO ENSURE THAT EDGE RAILS DON'T DEFLECT DURING PLACEMENT / FINISHING OF SLAB. FAILURE TO DO THIS MAY RESULT IN IMPROPER FIT OF TRENCH DRAIN GRATES.
- COORDINATE SAWCUTTING OF SLAB TO PREVENT EXCESSIVE RAVELLING (TOO EARLY) OR CRACKING (TOO LATE).

GC COORD

SUBTRADES

2 / A3.3

4-0011 - MASONRY DETAIL AT WINDOW / DOOR OPENINGS

INNER FACE OF CAVITY  
PT WOOD BLOCKING AROUND PERIMETER OF OPENING  
EXTERIOR FACE OF WINDOW OR DOOR FRAMING (DOOR FRAME SHOWN DASHED)  
ALLOW SUFFICIENT DEPTH FOR BACKER ROD AND CAULK  
AT VERTICAL SIDES OF OPENINGS WHERE BACK FACE OF MASONRY IS IN FRONT OF EXTERIOR FACE OF WINDOW / DOOR FRAME  
RETURN MASONRY VENEER TO CLOSE GAP

GC COORD

SUBTRADES

4 / A3.3

11-0007 - HB-1 - WALL HYDRANT (NFWH) DETAIL

PROVIDE CONTINUOUS SEAL AROUND HOUSING (TYP.)  
WALL HYDRANT HOUSING  
ALIGN LOCATION OF NON FREEZE WALL HYDRANT (NFWH) SUPPLY WITHIN NEAREST INTERIOR WALL  
WHERE APPLICABLE PROVIDE SMOOTH FACE MASONRY UNIT AT HOUSING TO ENSURE FLUSH INSTALLATION (TYP.)  
FINISHED FLOOR ELEVATION  
600 MIN / ROOM MAX

GC COORD

SUBTRADES

NOTES:

5 / A3.3

5-0024 - FFD-2 - FOUR FOLD DOOR JAMB DETAIL

WALL ASSEMBLY  
FIT ELECTRICAL BOX (SINGLE GANG - 89mm DEEP) FOR SENSOR AT WALL FACE AT INTERIOR SIDE WITHIN CAVITY. CONFIRM LOCATION PRIOR TO EXTERIOR WALL FINISH INSTALLATION  
DRILL JAMB FOR DOOR SENSOR. SENSOR SHALL BE 600MM A.F.F. COORDINATE WITH DOOR SUPPLIER FOR SENSOR REQUIREMENTS  
LINE OF WALL FACE AT INTERIOR SIDE WITHIN CAVITY  
OW - OPENING WIDTH  
JD - JAMB DEPTH  
PW-L / PW-R  
PREFABRICATED FOUR FOLD DOOR FRAME WELDED TO STEEL JAMB PLATE

GC COORD

SUBTRADES

GC COORD

SUBTRADES

GC COORD

SUBTRADES

6 / A3.3

5-0029 - OHD-2 - OVERHEAD DOOR JAMB DETAIL

WALL  
WALL WIDTH VARIES  
JD - JAMB DEPTH  
OW - OPENING WIDTH  
TRACK GUARD BY OVERHEAD DOOR MANUFACTURER  
OVERHEAD DOOR ROLLER AND TRACK ASSEMBLY WELDED TO JAMB EXTENSION  
PW-L / PW-R

GC COORD

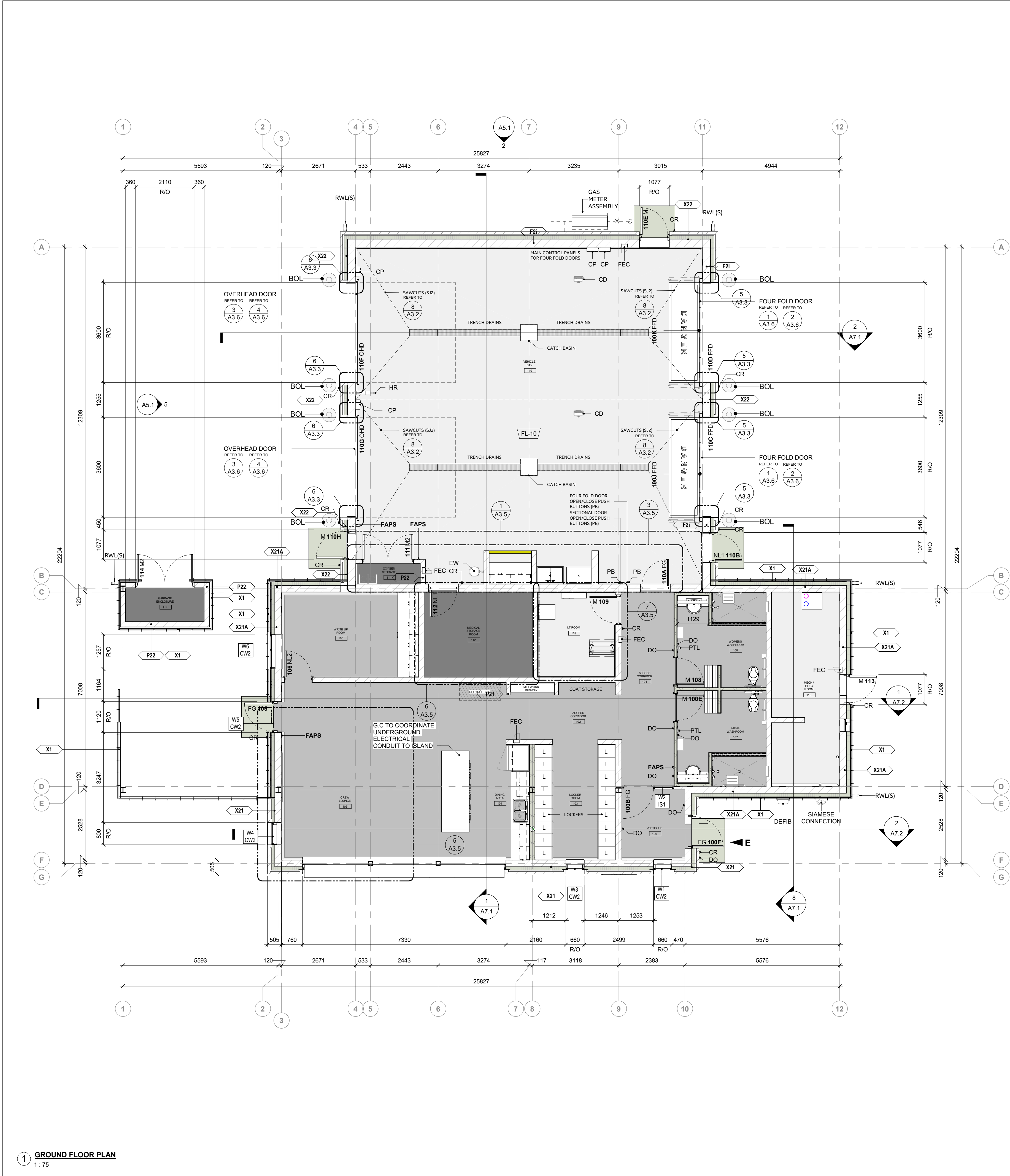
SUBTRADES

GC COORD

SUBTRADES

GC COORD

SUBTRADES



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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
18	100% CLIENT REVIEW	2024-08-05
19	TENDER	2025-10-30

PROJECT:

CLIENT:

YORK REGION PRS #33 RFTC

397-21

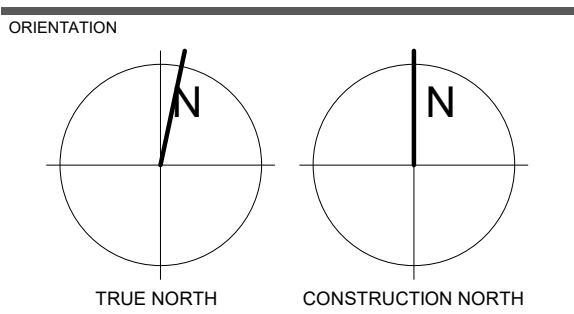
2960 TESTON ROAD, VAUGHAN

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

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

PROFESSIONAL SEAL

DWG TITLE  
FLOOR PLAN



DATE	2020-11-18
PROJECT No.	1622
DRAWING No.	A3.3
REVISION	19

2025-11-02 9:55:41 PM



2960 TESTON ROAD, VAUGHAN

PROJECT:

CLI

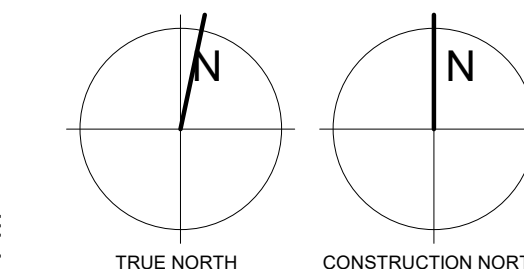
ARCHITECT  
**THOMASBROWNARCHITECTS**  
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

FLOOR PLAN -  
INTERIOR PARTITION  
LAYOUT

## ORIENTATION



DATE 2020-11-18

PROJECT No. \_\_\_\_\_

PROJECT No. \_\_\_\_\_

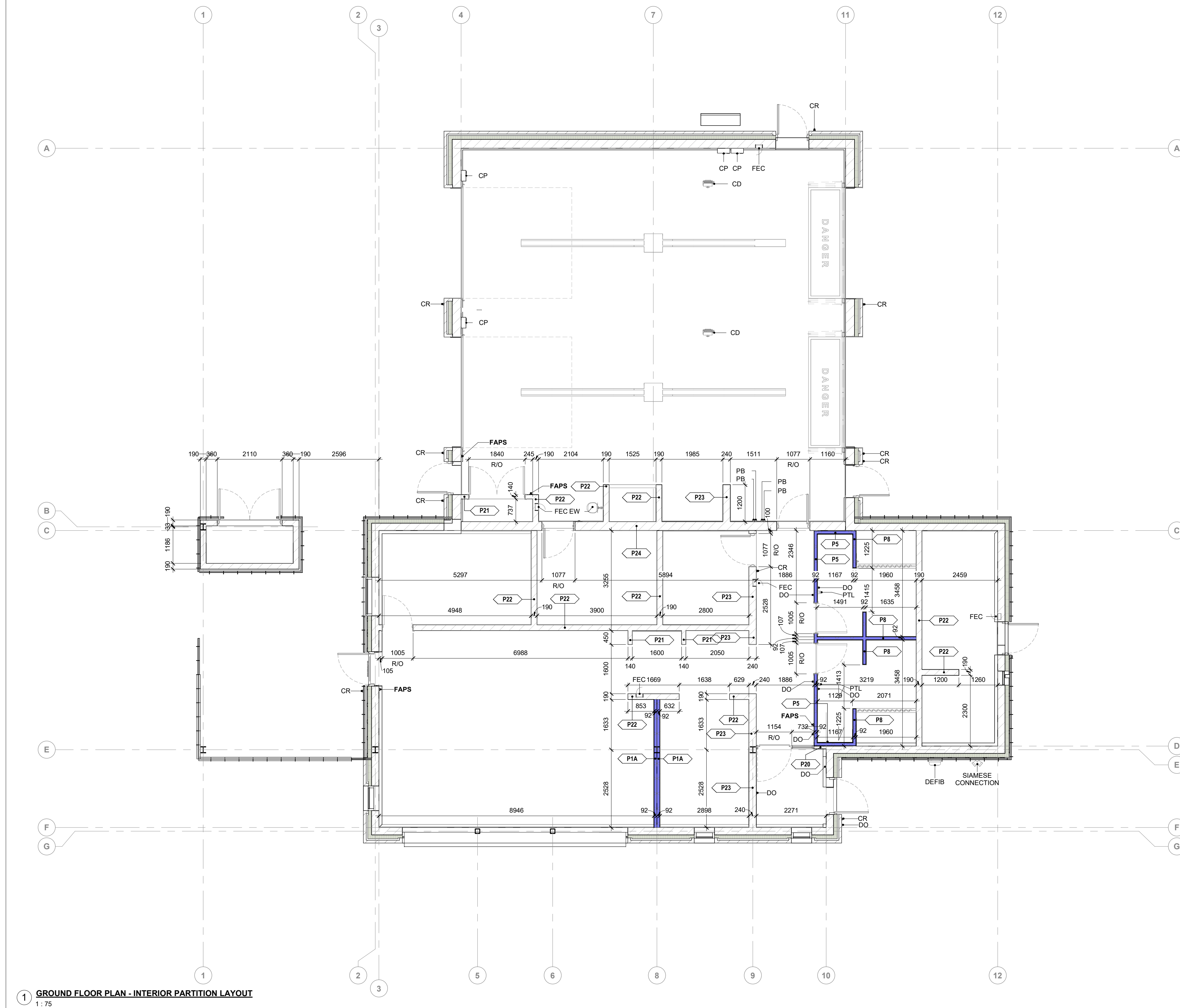
1622

DRAWING No.

### A3.4

DRAWING No.

REVISION  
19






### LA SERIES LEGEND

### IDENTIFICATION

- SHADING INDICATES FLOORS
- 360
- INDICATES OF ROOF DECK DIMENSION
- SHADING INDICATES ROOF DECK

## DIMENSIONING AND DETAILING

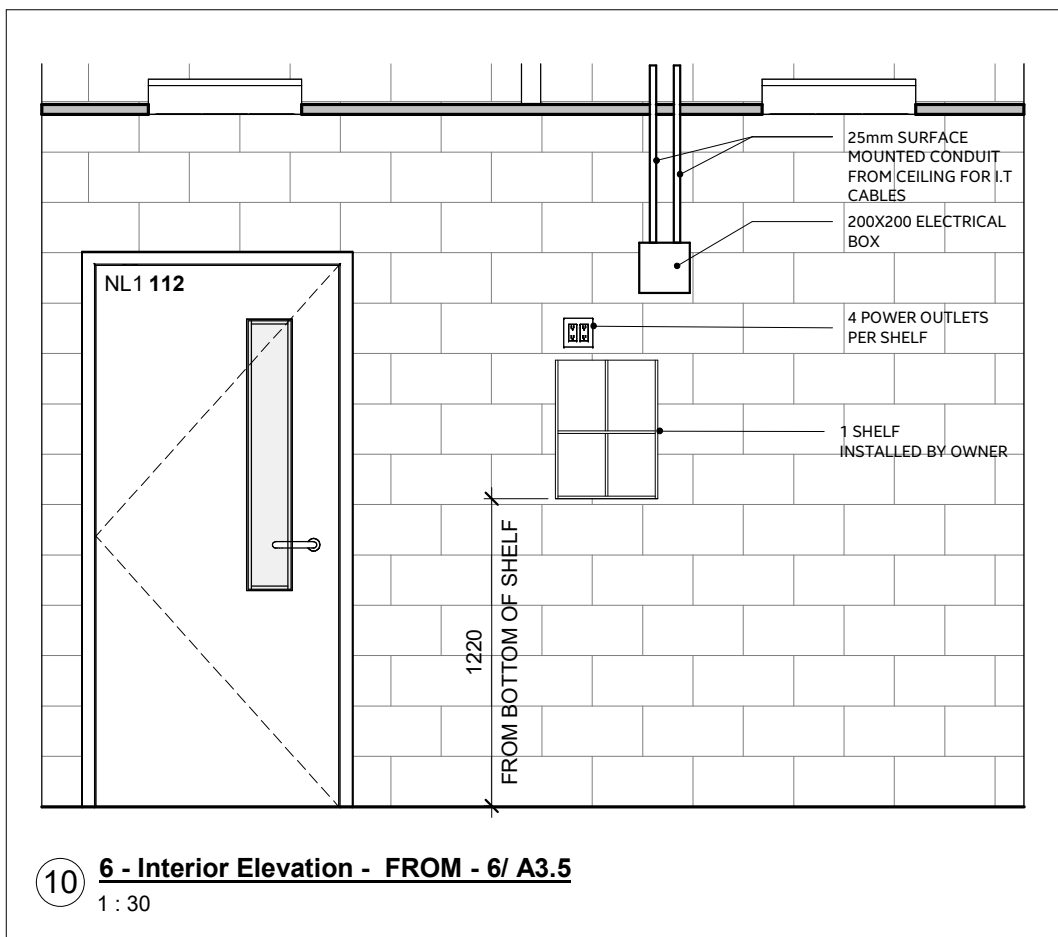
- |   |  |
|---|--|
|  | SHADED WALLS ARE DIMENSIONED TO FACE OF STUD                                       |
|  | INDICATES SLAB OR FOUNDATION WALL DEPRESSIONS                                      |
|  | INDICATES ROOF DIVIDERS AND/OR FRAMED UPSTANDS WHERE ROOF DECK ABUTS VERTICAL WALL |

2 / A3.4

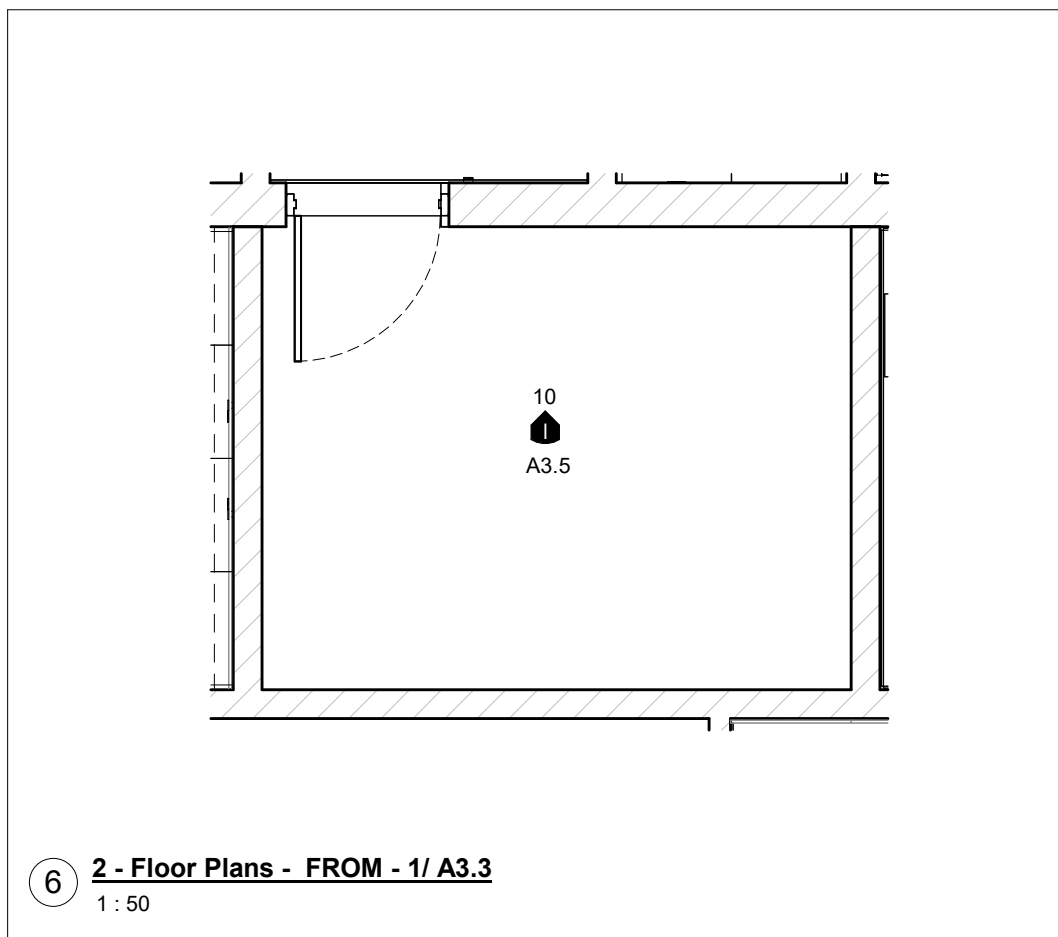
A700 GENERAL NOTES - LA  
SERIES

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

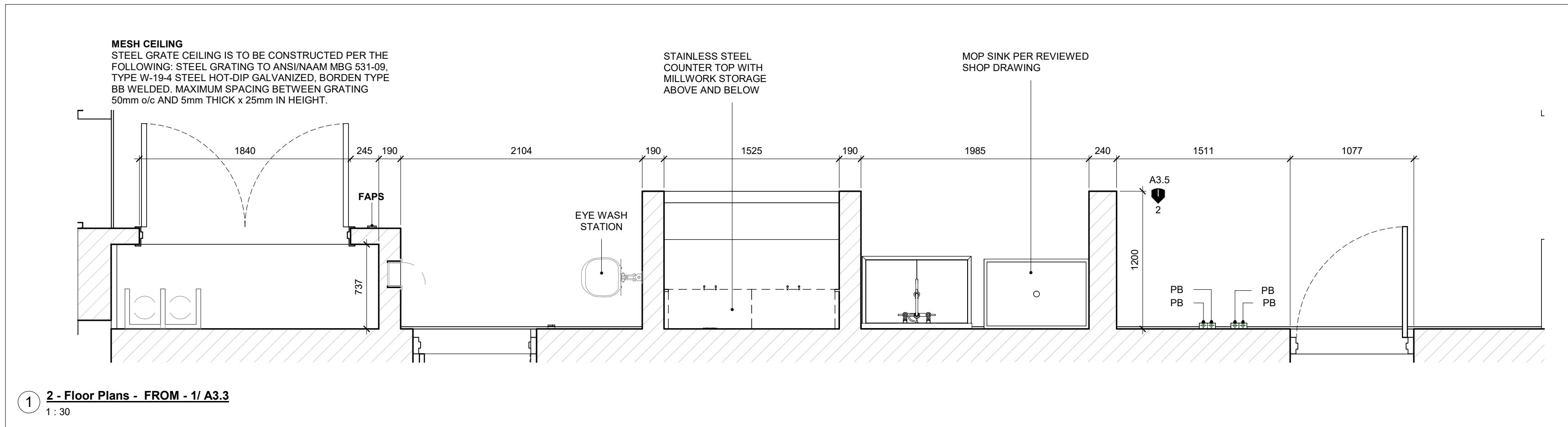




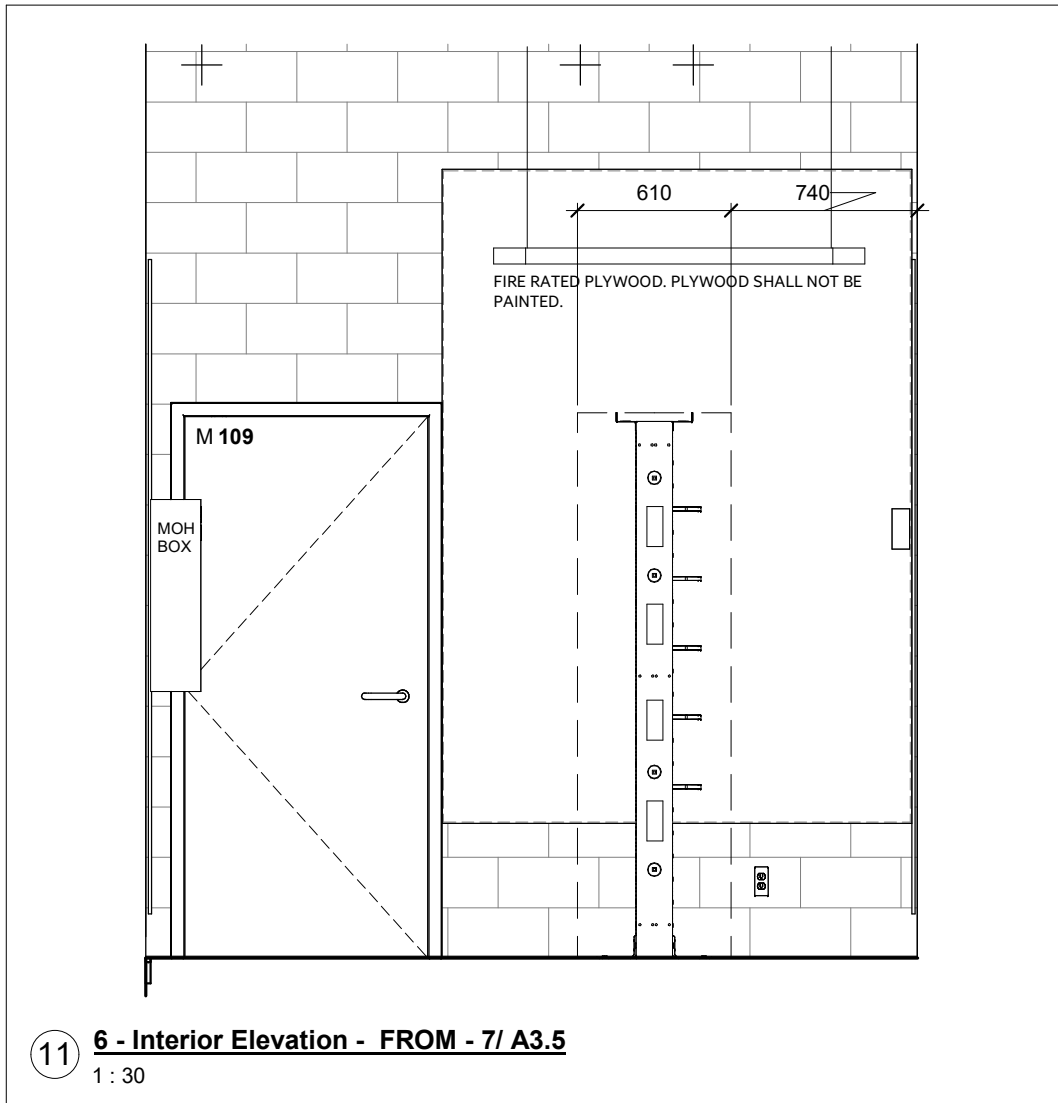
10 6 - Interior Elevation - FROM - 6/ A3.5  
1 : 30



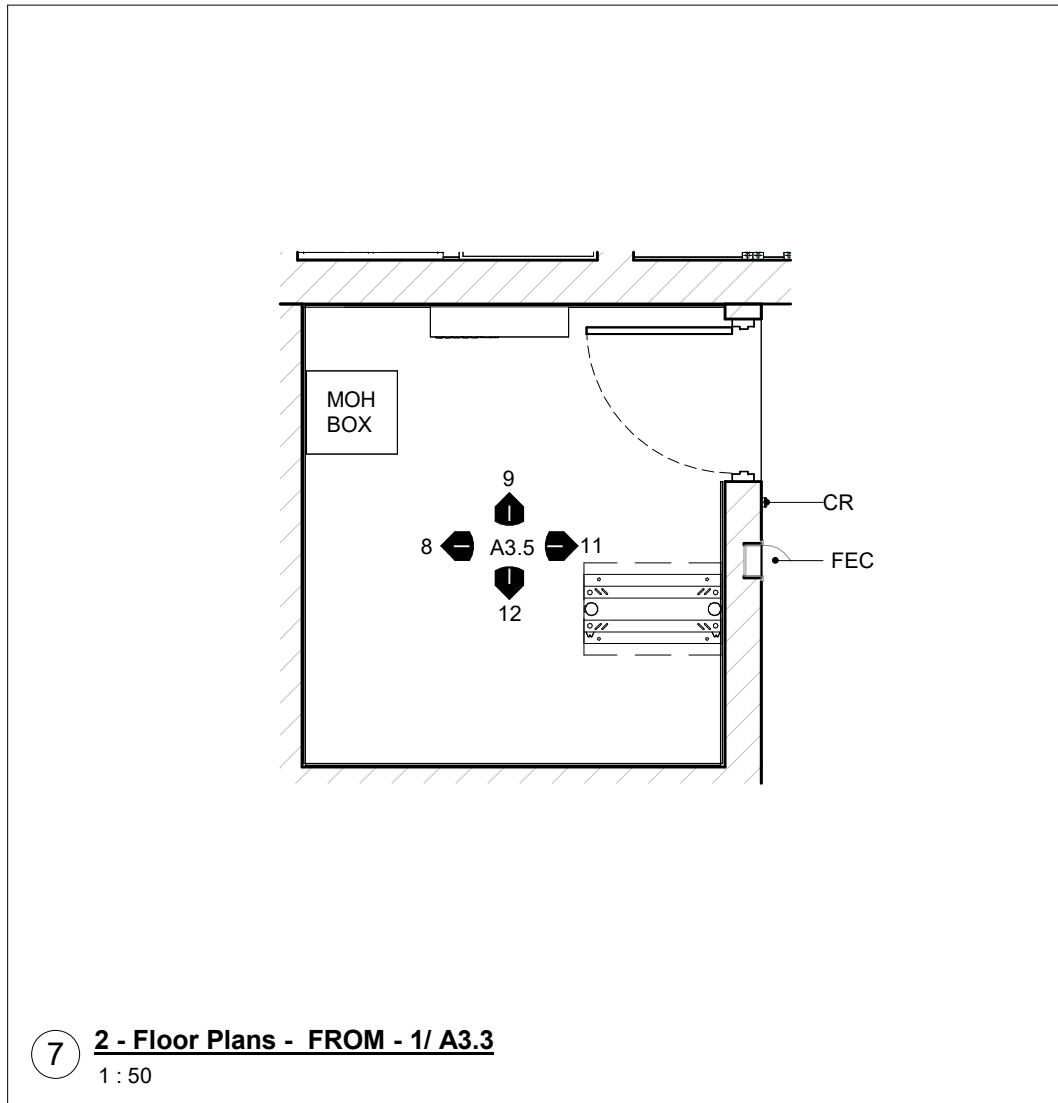
6 2 - Floor Plans - FROM - 1/ A3.3  
1 : 50



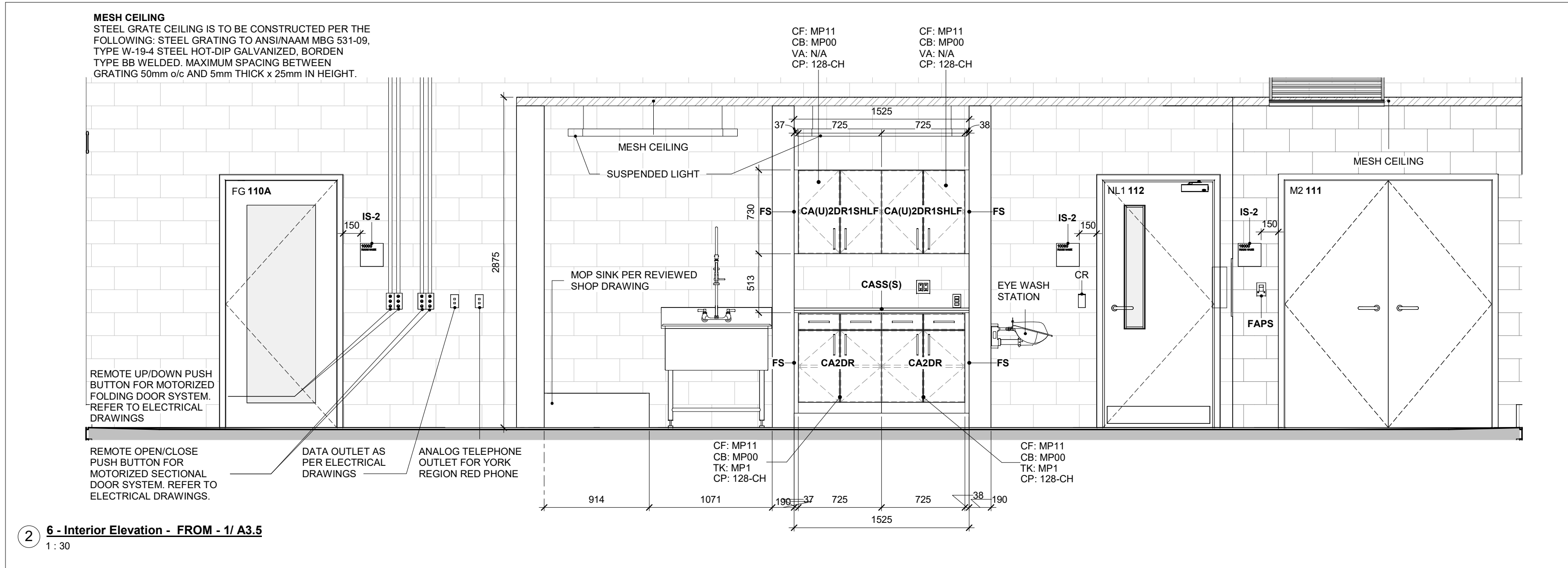
1 2 - Floor Plans - FROM - 1/ A3.3  
1 : 30



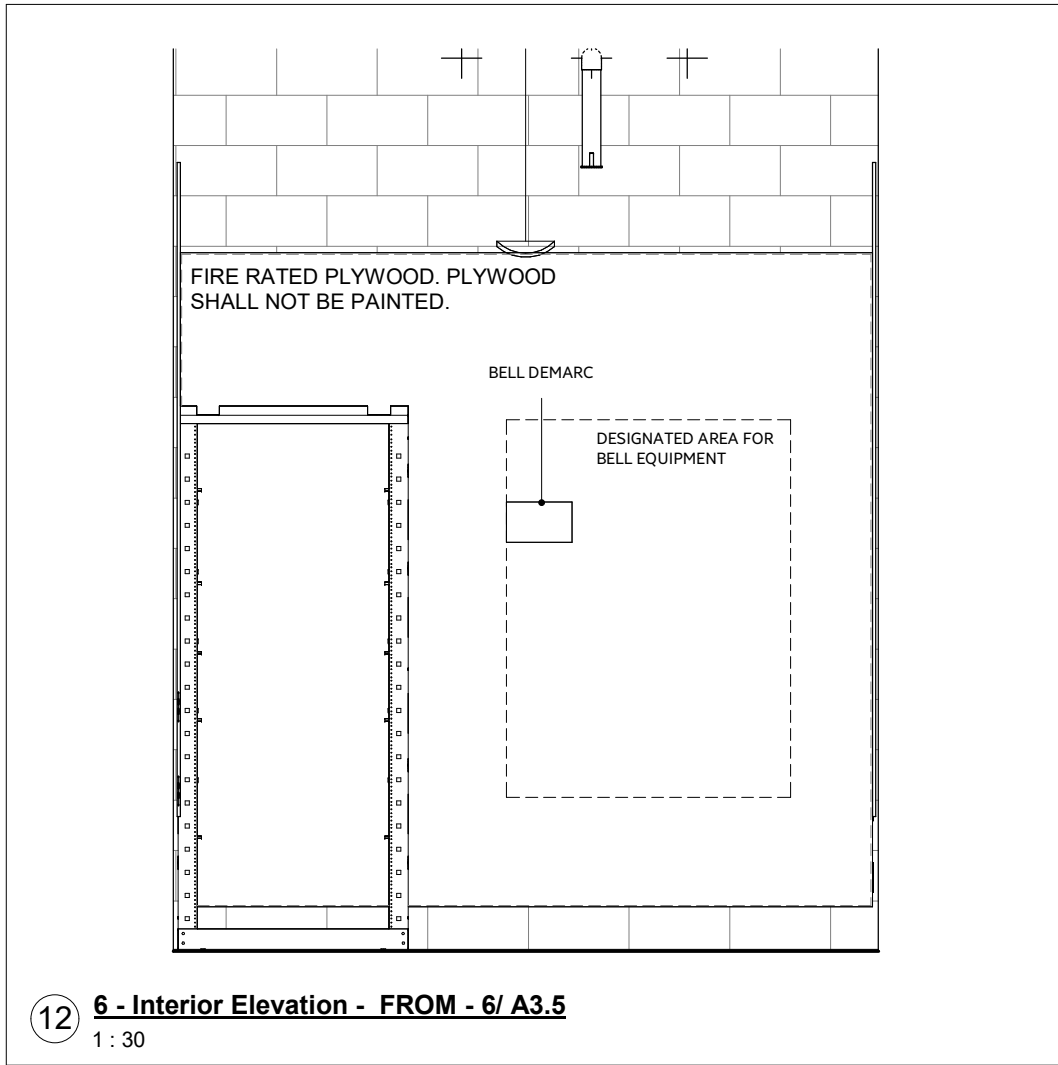
11 6 - Interior Elevation - FROM - 7/ A3.5  
1 : 30



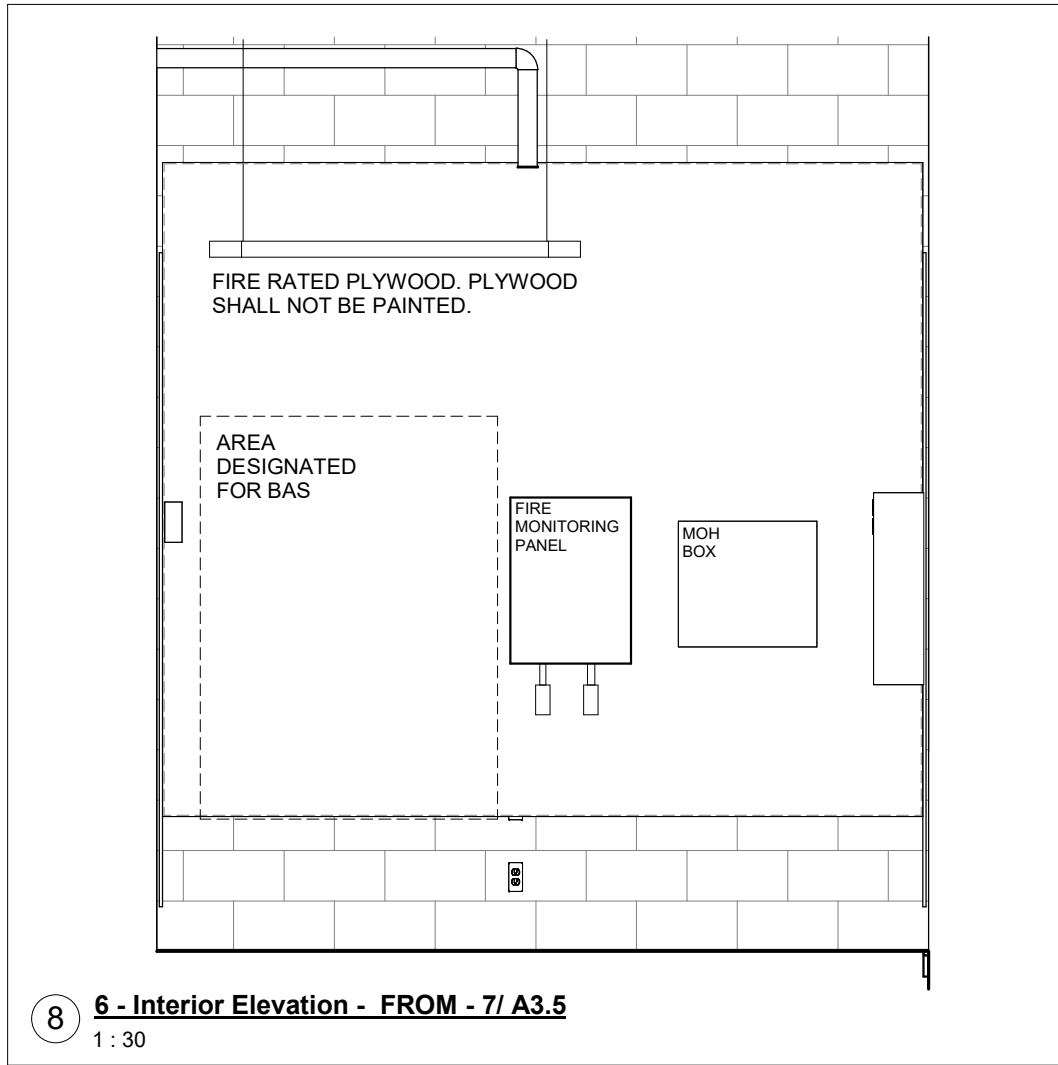
7 2 - Floor Plans - FROM - 1/ A3.3  
1 : 50



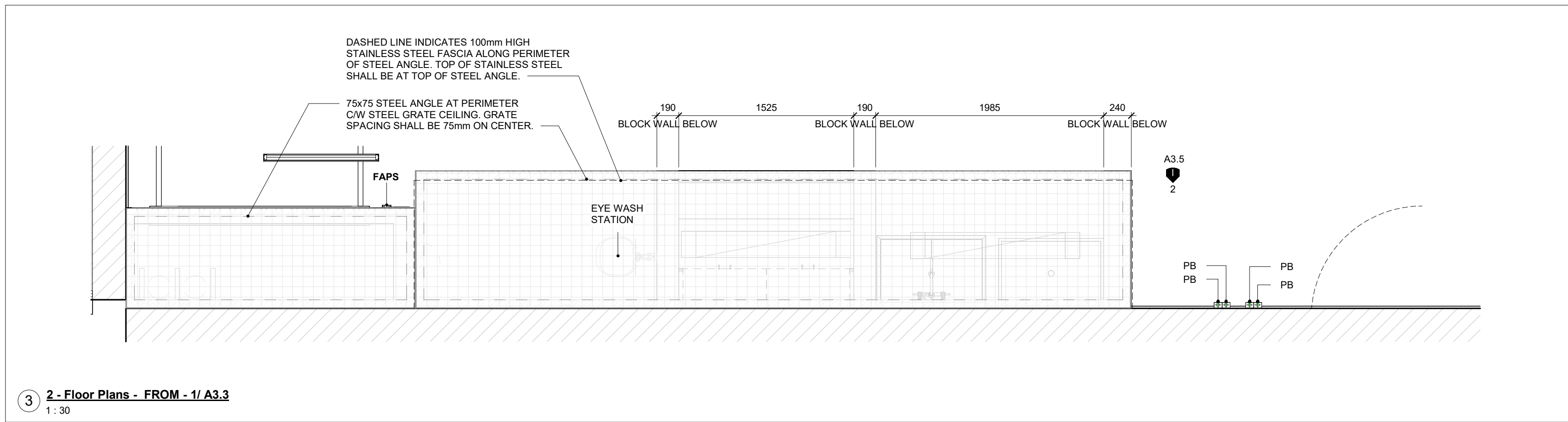
2 6 - Interior Elevation - FROM - 1/ A3.5  
1 : 30



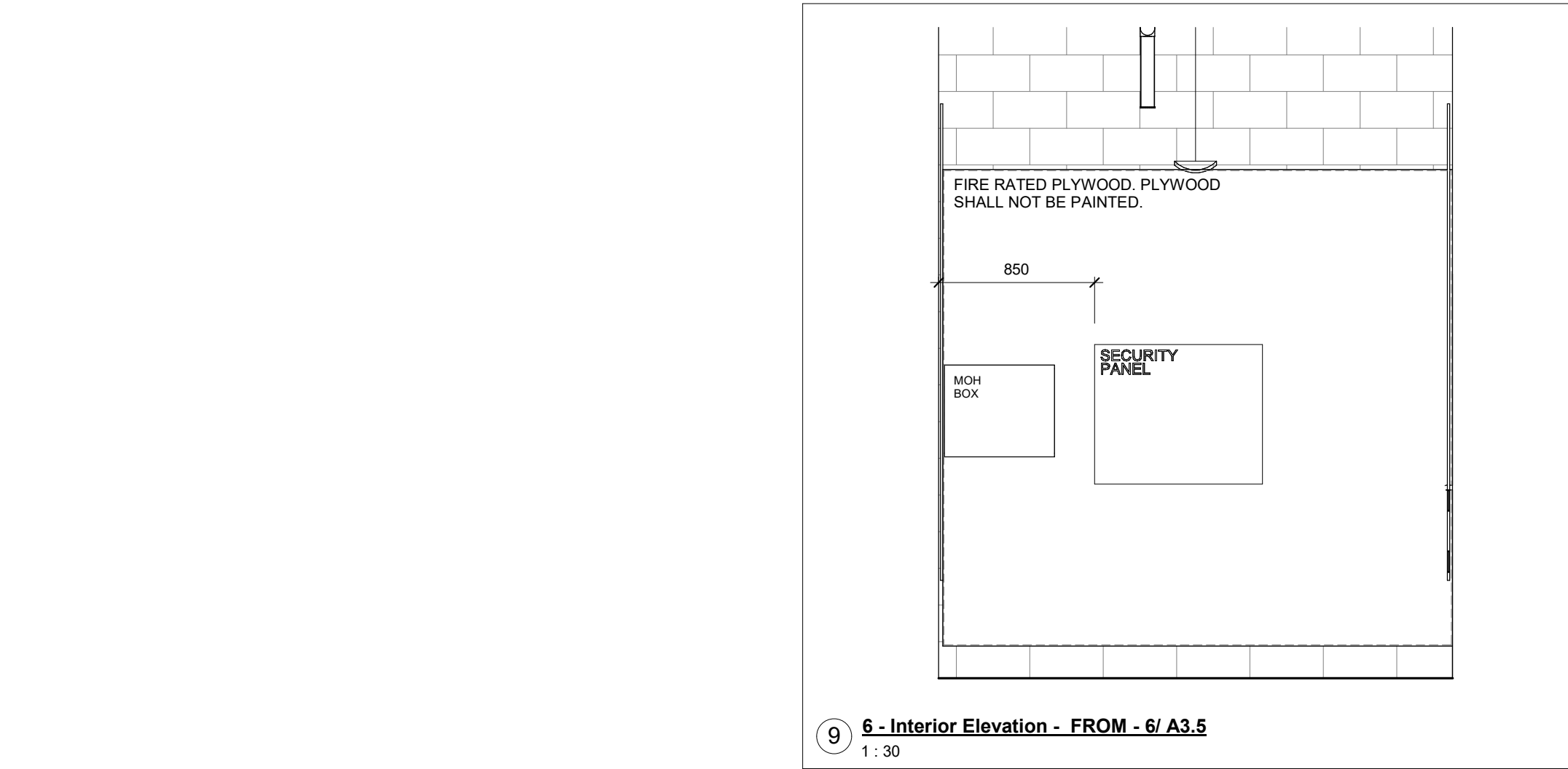
12 6 - Interior Elevation - FROM - 6/ A3.5  
1 : 30



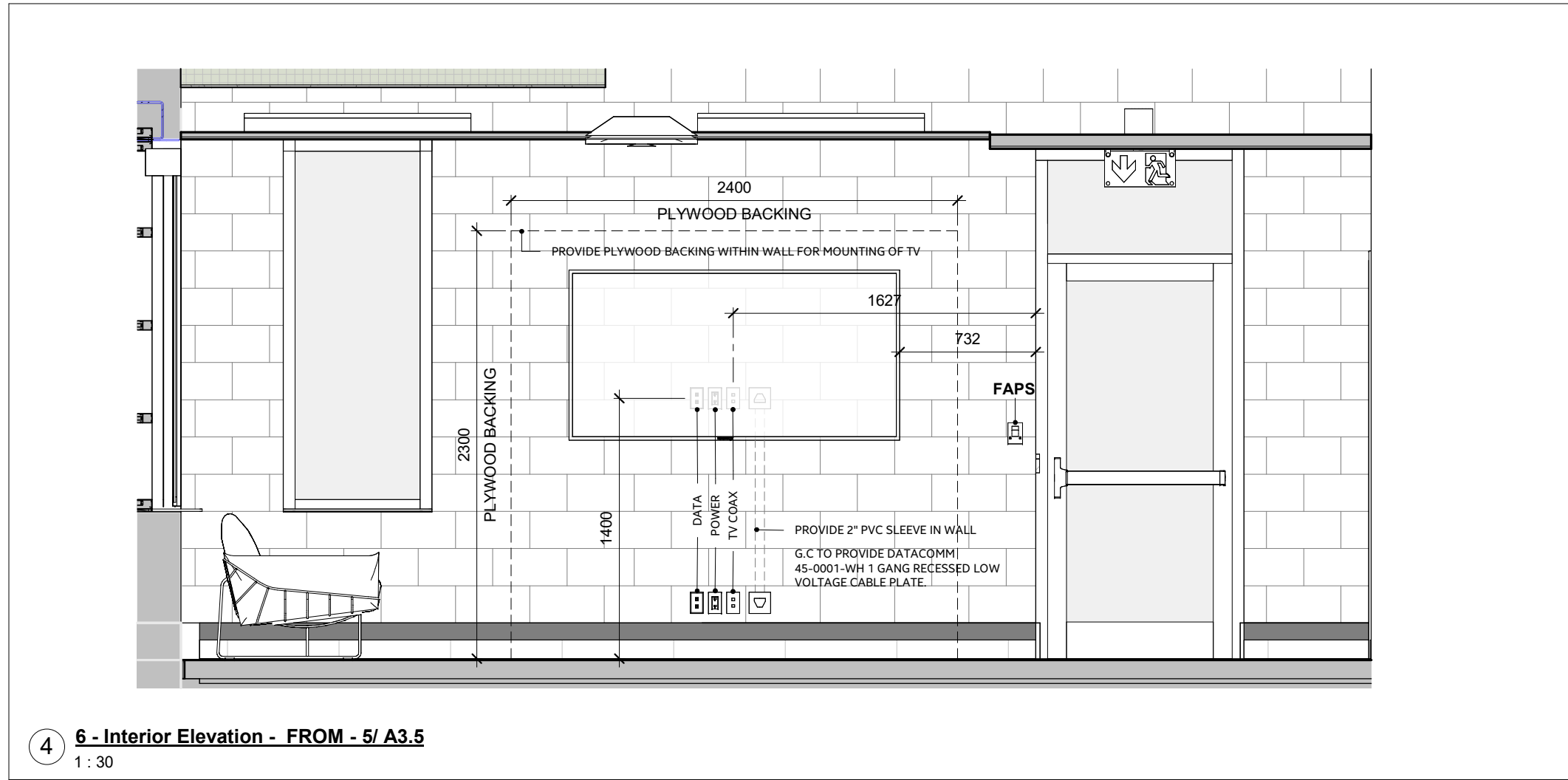
8 6 - Interior Elevation - FROM - 7/ A3.5  
1 : 30



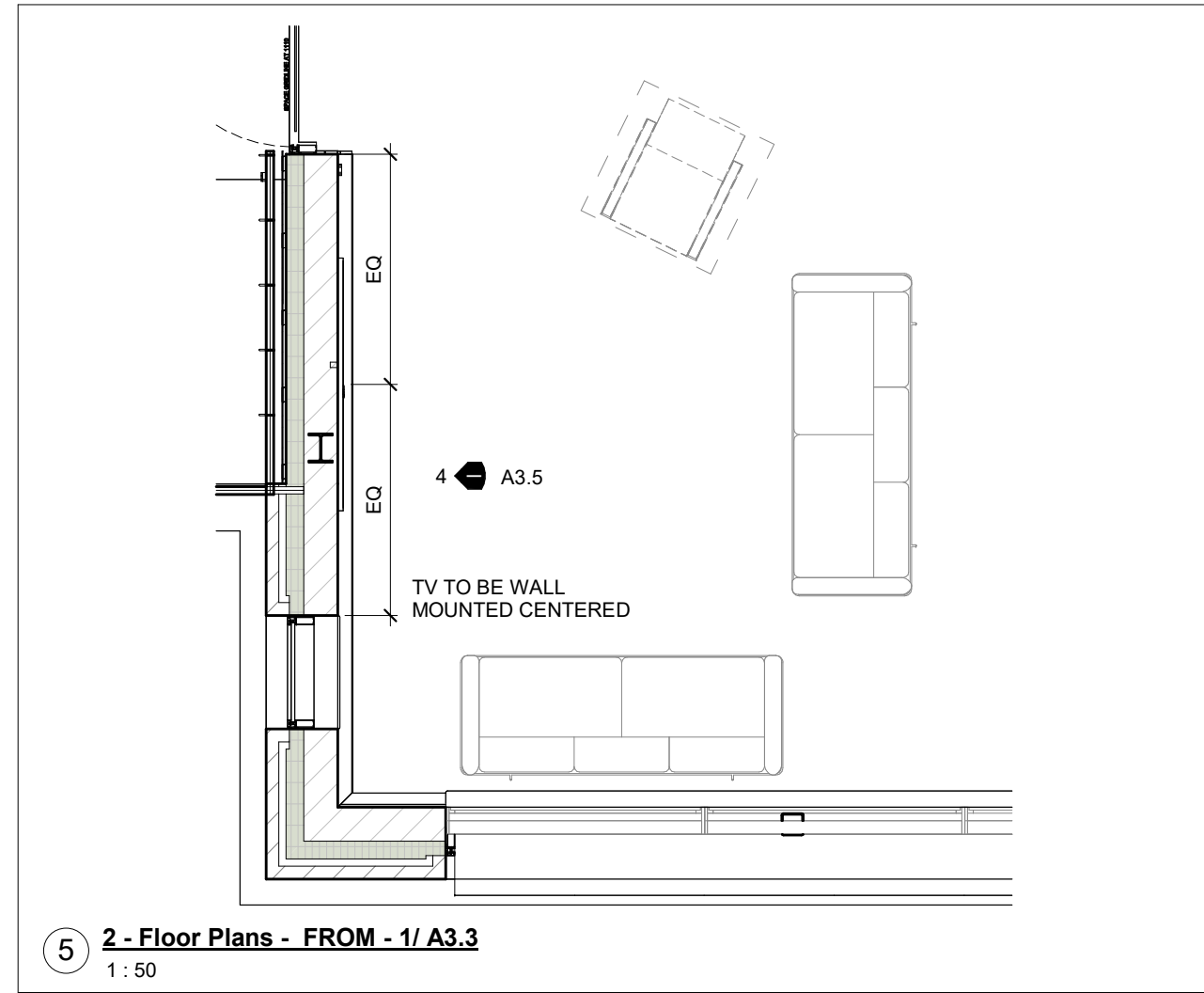
3 2 - Floor Plans - FROM - 1/ A3.3  
1 : 30



9 6 - Interior Elevation - FROM - 6/ A3.5  
1 : 30



4 6 - Interior Elevation - FROM - 5/ A3.5  
1 : 30



5 2 - Floor Plans - FROM - 1/ A3.3  
1 : 50

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

# YORK REGION PRS #33 RFTC 397-21

2960 TESTON ROAD, VAUGHAN

PROJECT :

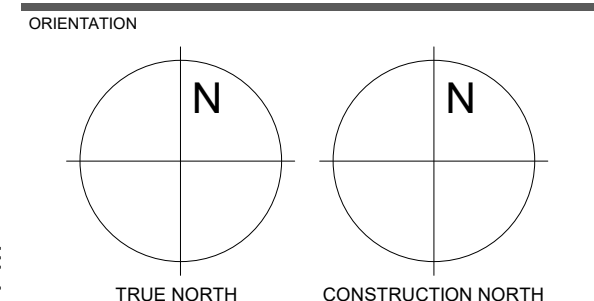
CLIENT

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

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

PROFESSIONAL SEAL

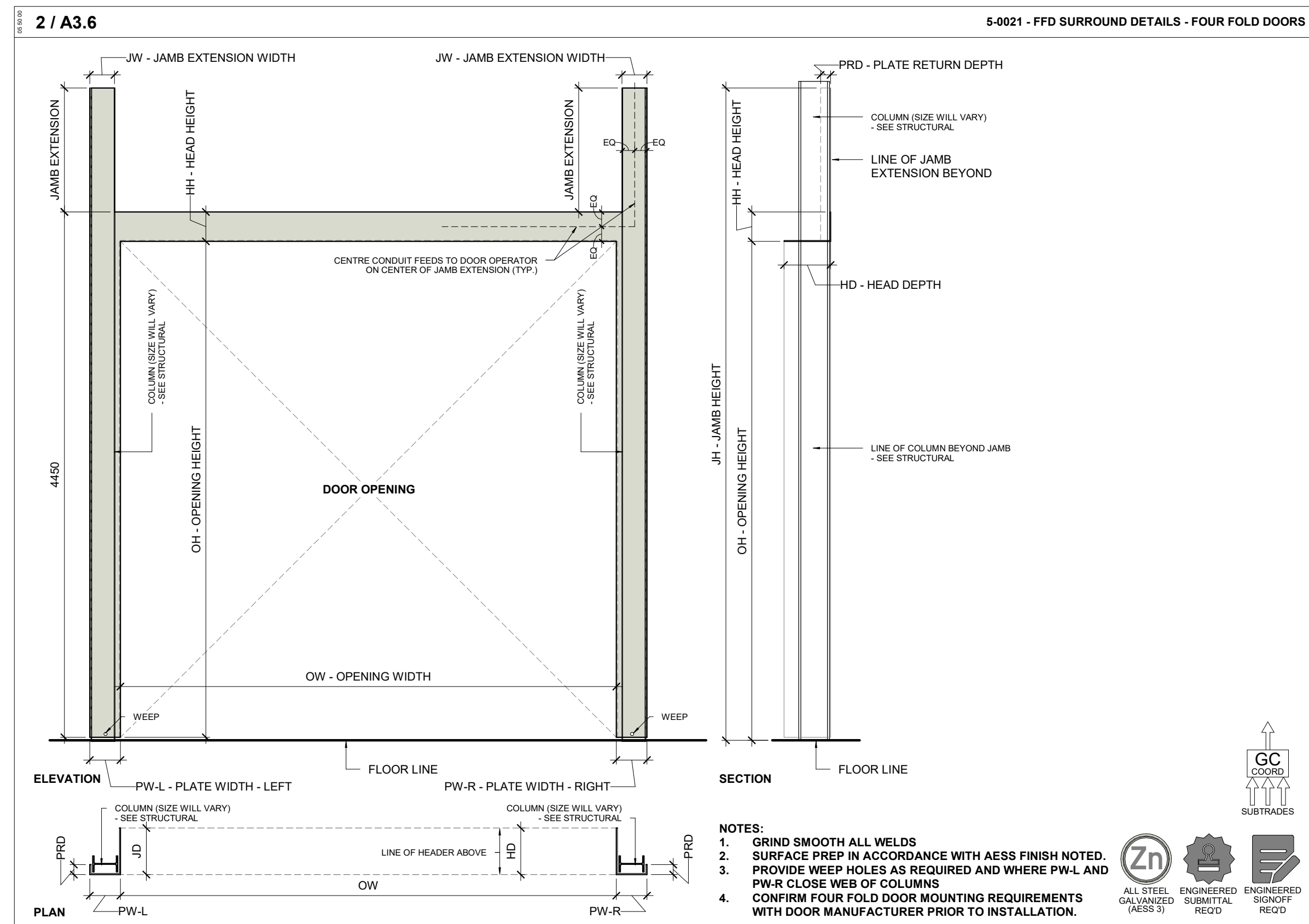
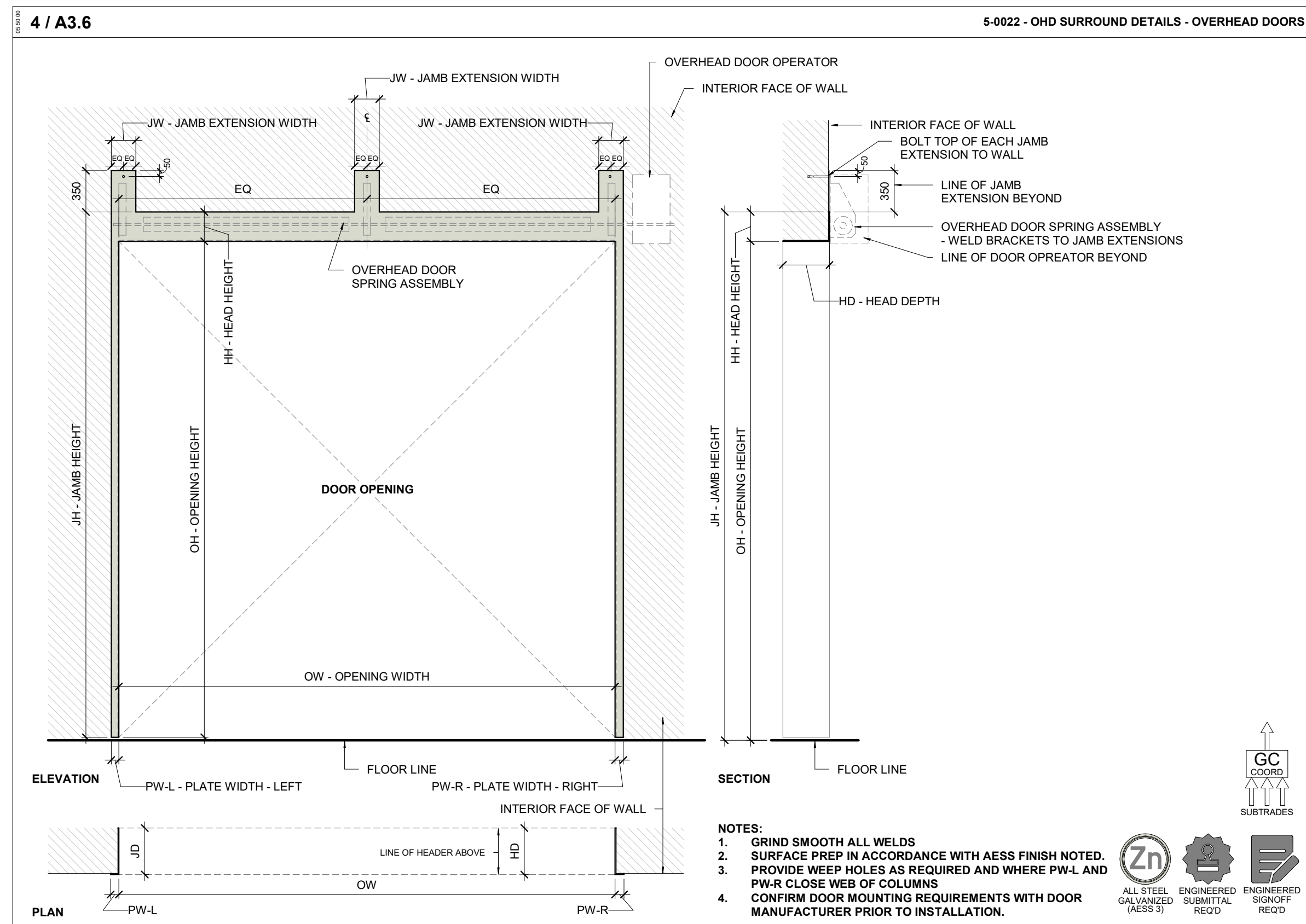
DWG TITLE  
**VEHICLE BAY, I.T.  
ROOM, CREW AREA  
ELEVATIONS &  
DETAILS**



DATE	2020-11-18
PROJECT No.	1622
DRAWING No.	A3.5
REVISION	19

2025-11-02 9:55:43 PM







ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT :

CLIENT

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

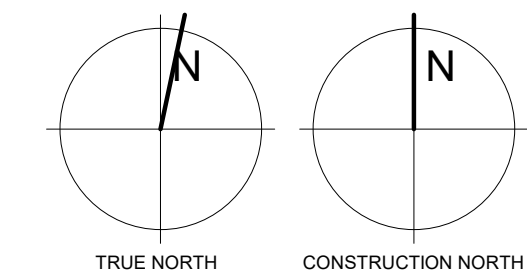
ARCHITECT  
**THOMASBROWNARCHITECTS**  
157 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

ROOF PLAN

ORIENTATION



DATE  
2020-11-18

PROJECT No.

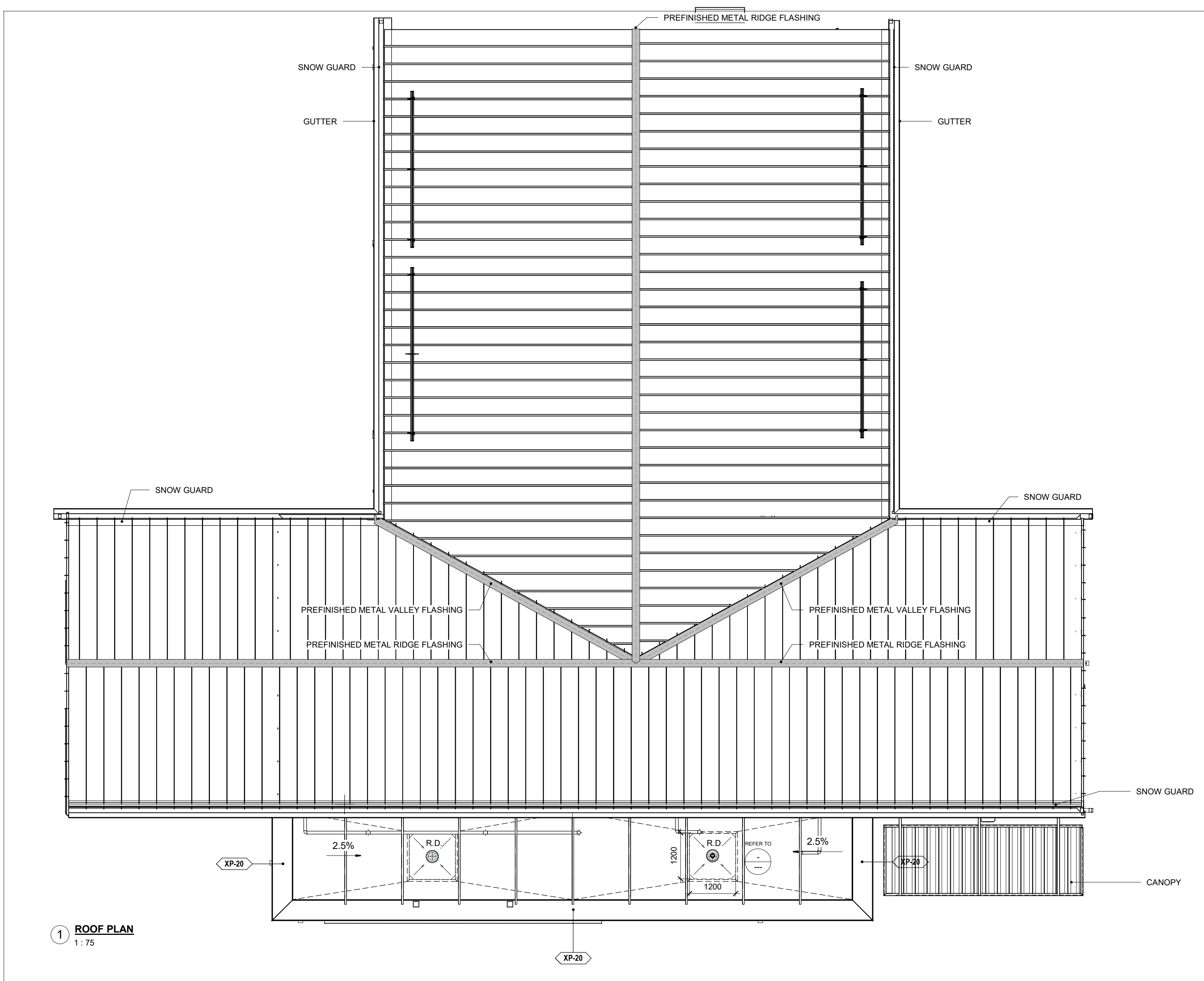
1622

DRAWING No.

A4.1

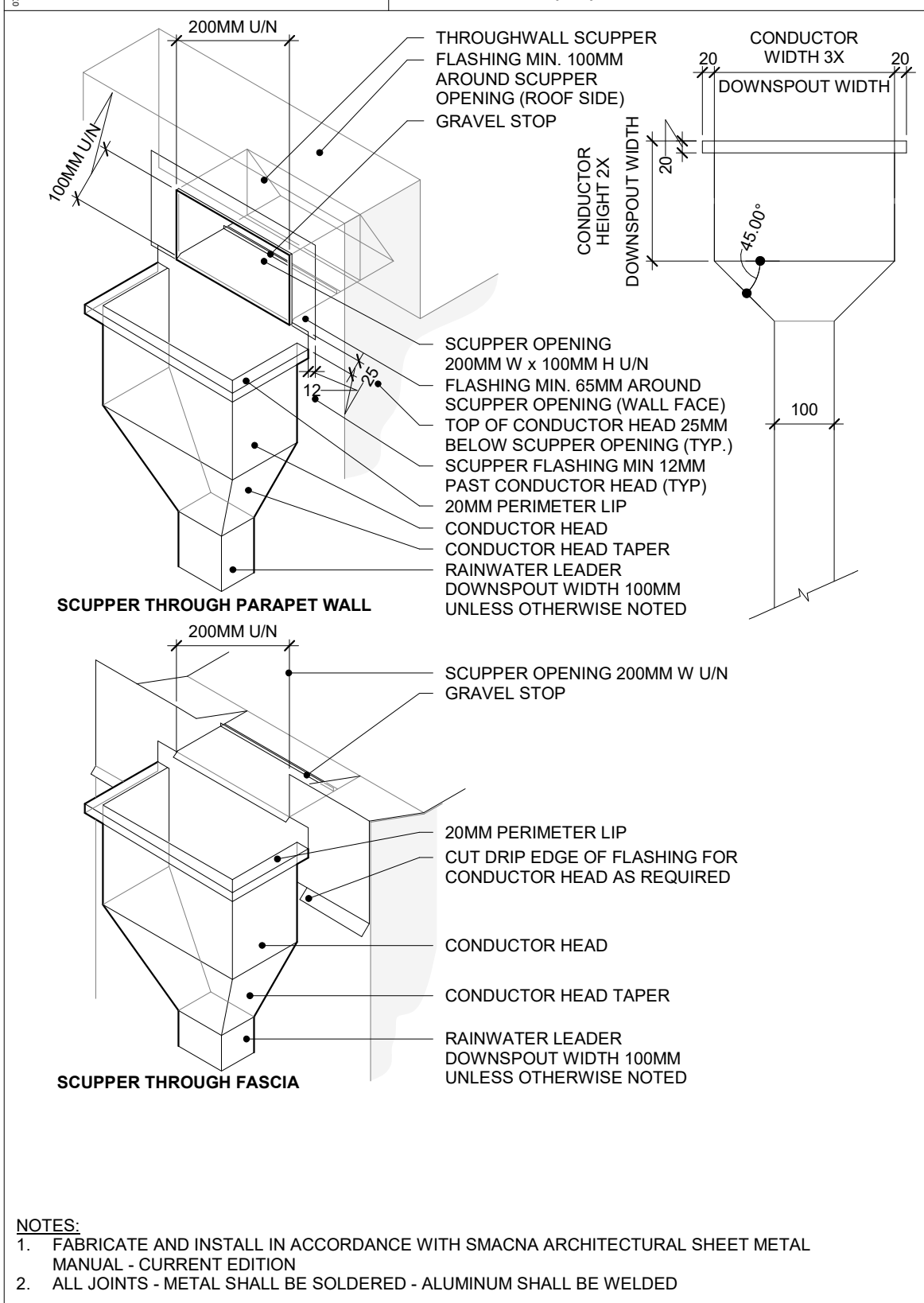
REVISION

19



6 / A4.1

7-0005 - RWL(CH)-1 RAIN WATER LEADER DETAIL



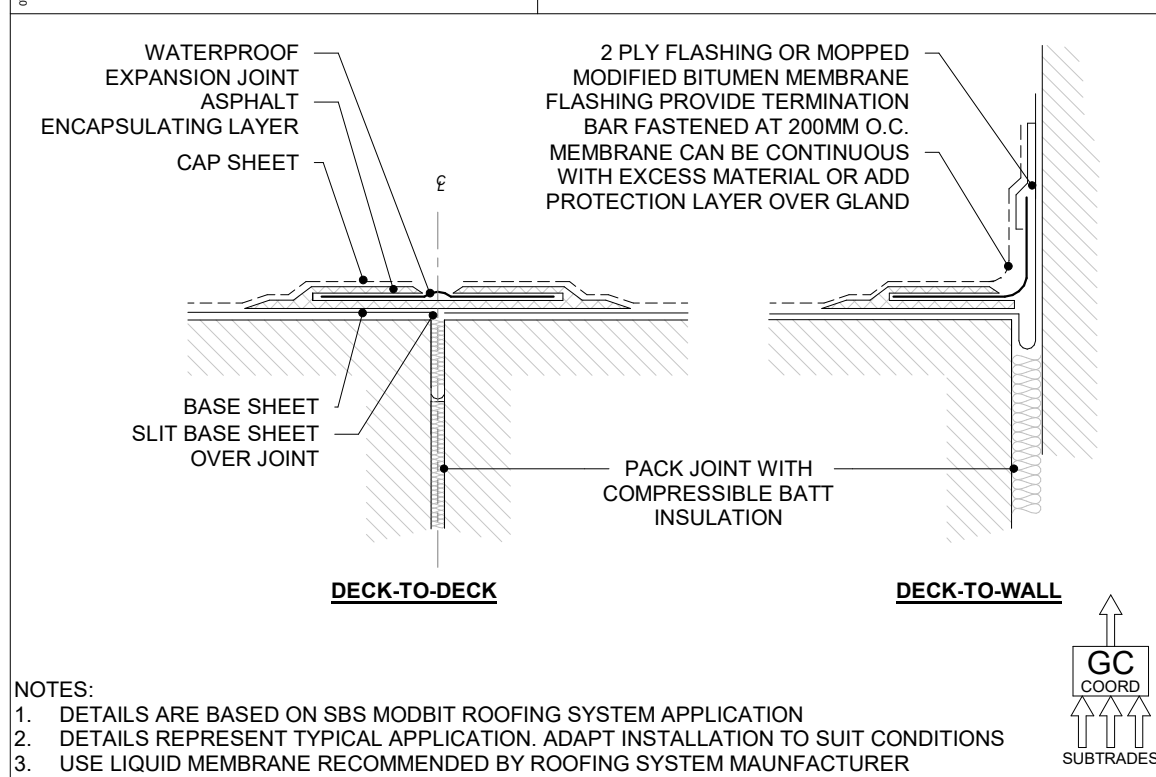
2 / A4.1

A700 GENERAL NOTES - ROOF PLAN

- ROOF PLAN DOES NOT SHOW ALL PENETRATIONS THROUGH ROOF. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. MAKE PROVISIONS FOR ROOF PENETRATIONS WHERE INDICATED AND REQUIRED UNDER THE SCOPE OF THIS CONTRACT.
- ALL ROOF PENETRATIONS SHALL BE SEALED USING TALL CONE FLASHING OR PITCH POCKET'S AS REQUIRED. CONES SHALL BE SEAMLESS AND INCLUDE A STORM COLLAR.
- PROVIDE TAPERED INSULATION AT PERIMETER OF ALL ROOFS, SKYLIGHTS AND AS INDICATED. SLOPE SHALL BE 2%.
- UNLESS NOTED OTHERWISE, SLUMP ALL ROOF DRAINS IN ACCORDANCE WITH APPLICABLE CRCA DETAIL AS INDICATED OR AS REQUIRED. PROVIDE TAPERED CRICKETS OR SIMILAR TYPE MEASURES TO ENSURE THAT ROOF WATER FLOWS TO DRAINS.
- SLOPE OF ROOF STRUCTURE TO BE SUPPLEMENTED BY TAPERED INSULATION. SLOPE ROOF INSULATION MIN. 1.5% TO DRAINS. TYPICAL CRICKETS, CONSTRUCTED OUT OF TAPERED INSULATION, ARE TO PROVIDE TWO TIMES THE SLOPE OF THE ROOF STRUCTURE.
- UPSTANDS ON ROOF FOR MECHANICAL UNITS, PARAPETS, SKYLIGHTS TO COME COMPLETE WITH CANT STRIPS.
- WITHOUT EXCEPTION, ROOF MOUNTED EQUIPMENT AND FITTINGS THAT REQUIRE A ROOF CURB SHALL BE SUPPORTED BY A CURB OF SUFFICIENT HEIGHT SO THAT THE TOP OF CURB IS AT LEAST 250mm ABOVE THE ADJACENT ROOF SURFACE. CONTRACTOR TO COORDINATE WITH SUPPLIERS/MANUFACTURERS ACCORDINGLY.
- CONTINUOUS VAPOUR RETARDER MEMBRANE COMPONENT OF ROOF ASSEMBLIES TO BE WRAPPED UP AT ALL PARAPETS, CURBS, EXTERIOR WALL ASSEMBLIES BY A MIN. 200mm OR AS DETAILED ON DRAWINGS. TIE INTO VAPOUR BARRIER & AVB MEMBRANES ON ALL VERTICAL SURFACES. PROVIDE PEEL & STICK TYPE TRANSITION MEMBRANES IN ORDER TO ENSURE CONTINUITY OF AIR BARRIERS/BUILDING ENVELOPE.

3 / A4.1

7-0012 - ROOF EXPANSION JOINT DETAILS - TORCH DOWN





ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT:  
**YORK REGION PRS #33 RFTC**  
**397-21**

2960 TESTON ROAD, VAUGHAN

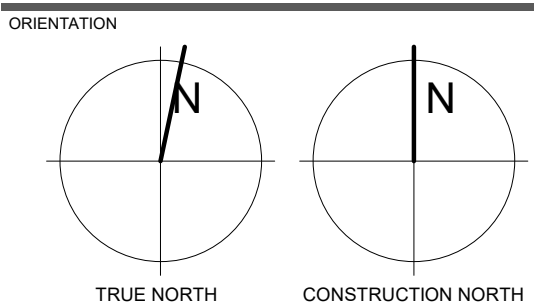
CLIENT

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

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

PROFESSIONAL SEAL

DWG TITLE  
**LAYOUT PLAN -  
EDGE OF DECK**

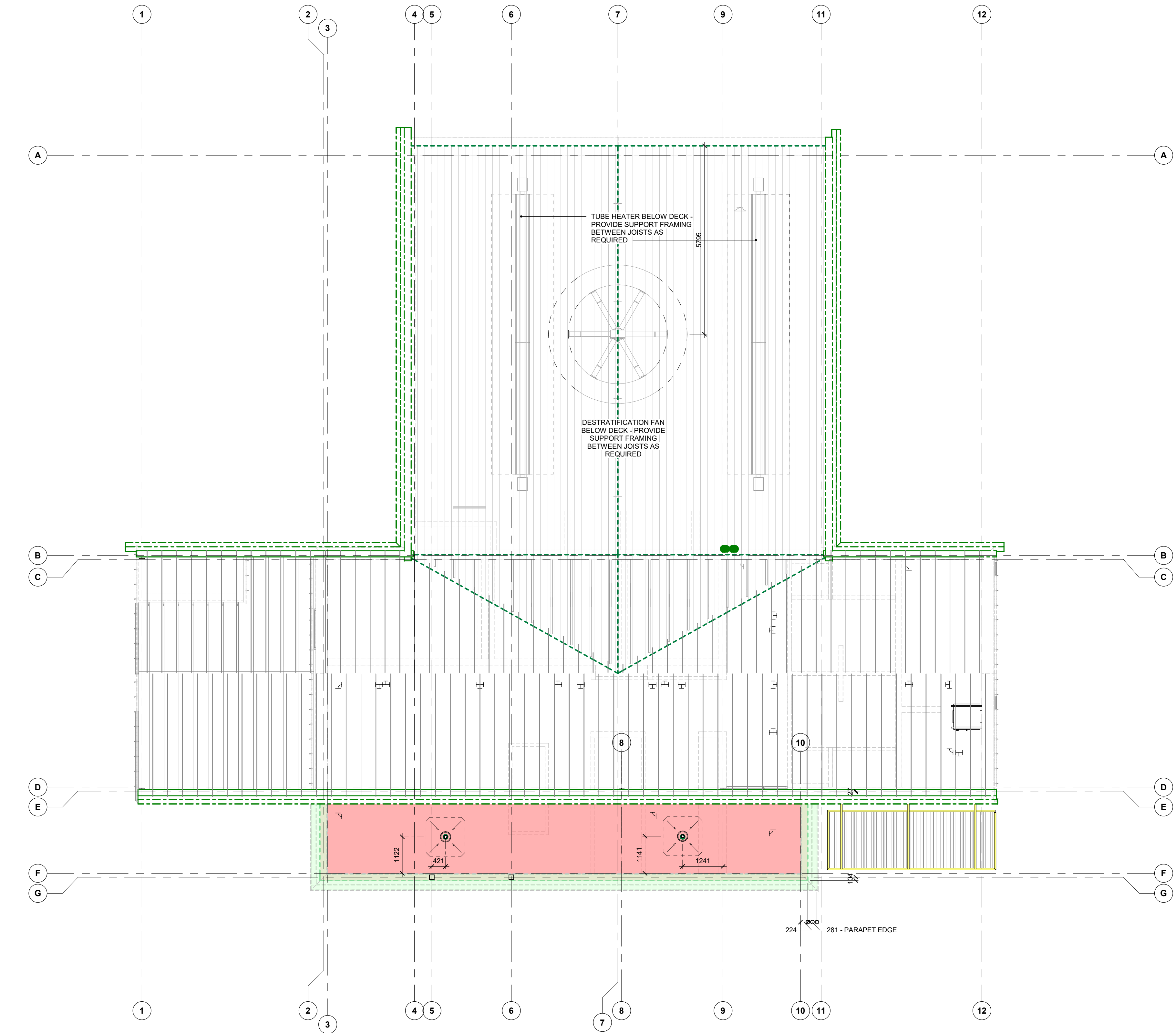


DATE  
2020-11-18

PROJECT No.  
**1622**

DRAWING No.  
**A4.2**

REVISION  
19



1 **LAYOUT PLAN - EDGE OF DECK**  
1 : 75

LA SERIES LEGEND

IDENTIFICATION

- SHADING INDICATES FLOORS
- INDICATES OF ROOF DECK DIMENSION
- SHADING INDICATES ROOF DECK

DIMENSIONING AND DETAILING

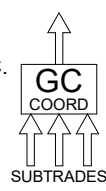
- SHADED WALLS ARE DIMENSIONED TO FACE OF STUD
- INDICATES SLAB OR FOUNDATION WALL DEPRESSIONS
- INDICATES ROOF DIVIDERS AND/OR FRAMED UPSTANDS WHERE ROOF DECK ABUTS VERTICAL WALL



4 / A5.1

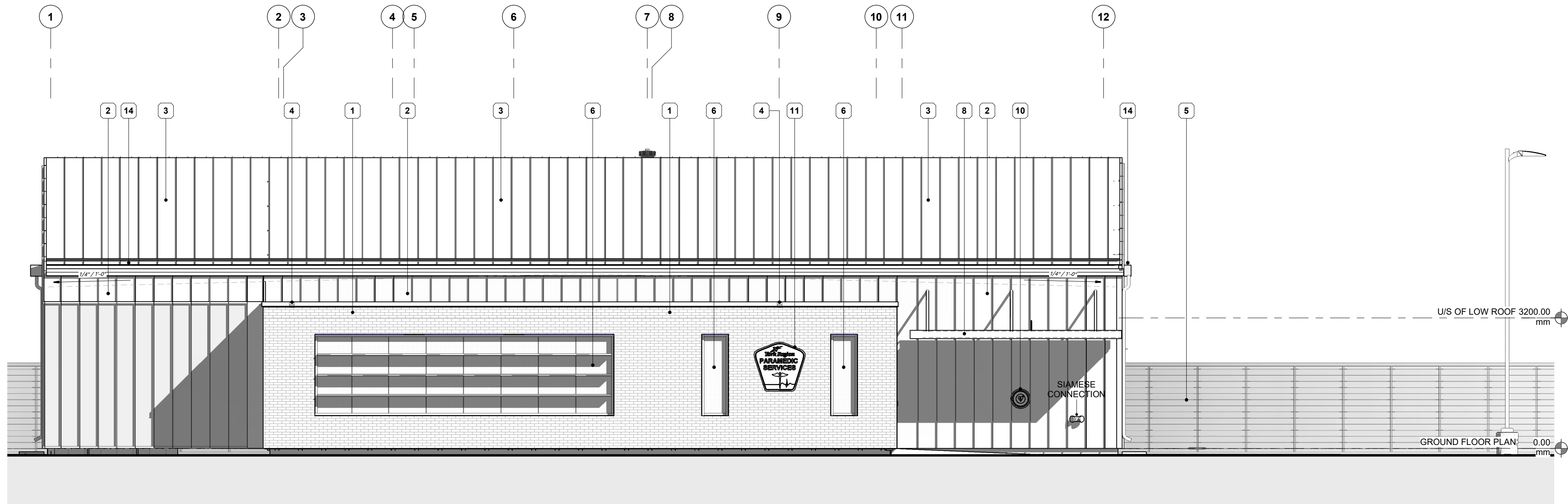
A700 GENERAL NOTES - BUILDING ELEVATIONS

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS PREPARED BY THE MECHANICAL AND ELECTRICAL ENGINEERS TO DETERMINE LOCATIONS OF ALL MECHANICAL AND ELECTRICAL PENETRATIONS, FIXTURES, DEVICES ETC. ELEVATION DRAWINGS MAY NOT SHOW ALL PENETRATIONS. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. MAKE PROVISIONS FOR PENETRATIONS WHERE INDICATED AND REQUIRED UNDER THE SCOPE OF THIS CONTRACT.
- ELEVATION DRAWINGS MAY NOT SHOW ALL FIXTURES, DEVICES ETC. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. LOCATION OF FIXTURES, DEVICES ETC. AS SHOWN ON ELEVATION DRAWINGS SHALL GOVERN. REPORT ANY DISCREPANCIES WITH MECHANICAL AND ELECTRICAL DRAWINGS TO CONSULTANT IMMEDIATELY. OBTAIN INSTRUCTION FROM CONSULTANT BEFORE COMMENCING INSTALLATION.



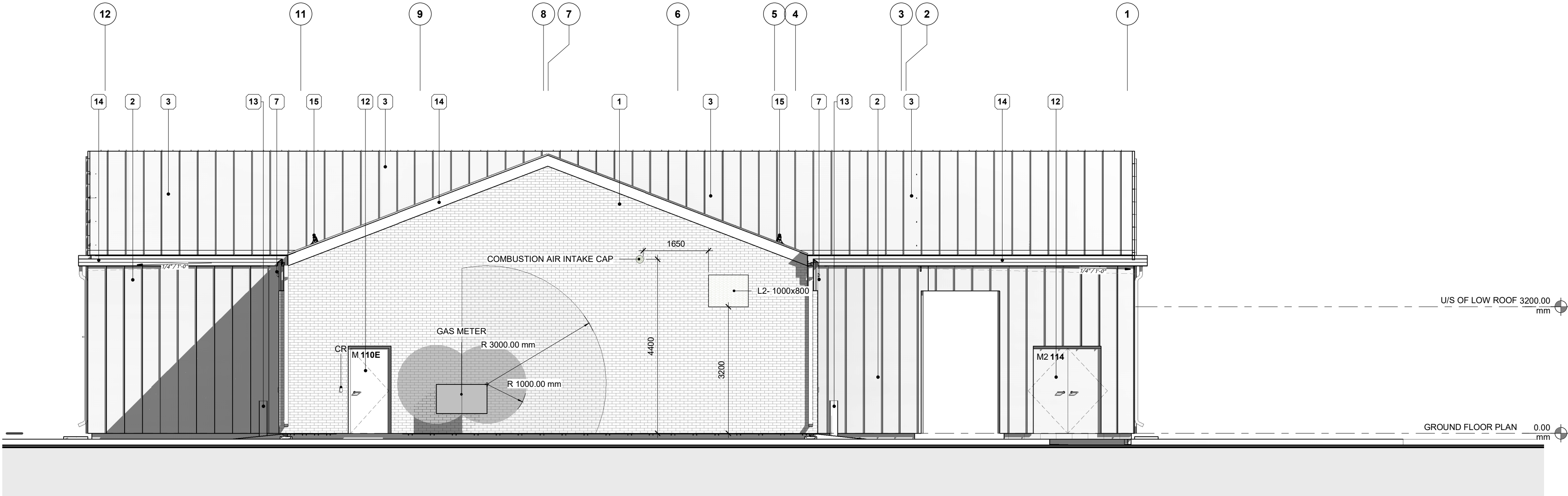
BUILDING ELEVATION NOTES

NUMBE	R	NOTE
1		BRICK MASONRY VENEER
2		STANDING SEAM METAL WALL PANEL
3		STANDING SEAM METAL ROOF
4		LIGHT FIXTURE (TYP)
5		EXISTING BOARD FENCE
6		ALL GLAZING TO HAVE BIRD FRIENDLY FILM: FEATHER FRIENDLY TECHNOLOGIES, DOT SIZE 5mm, SPACING H 50mm V 100mm, GENERAL CONTRACTOR TO COORDINATE INSTALLATION
7		SECURITY CAMERA
8		ALL EXPOSED STEEL SHALL BE PAINTED
9		NEW CHAIN LINK FENCE
10		DEFIBRILLATOR - OWNER SHALL SUPPLY, CONTRACTOR TO INSTALL
11		OWNER SUPPLIED AND INSTALLED SIGNAGE
12		DOOR (STEEL)
13		BOLLARD
14		PREFINISHED FASCIA AND GUTTER
15		SNOW GUARDS



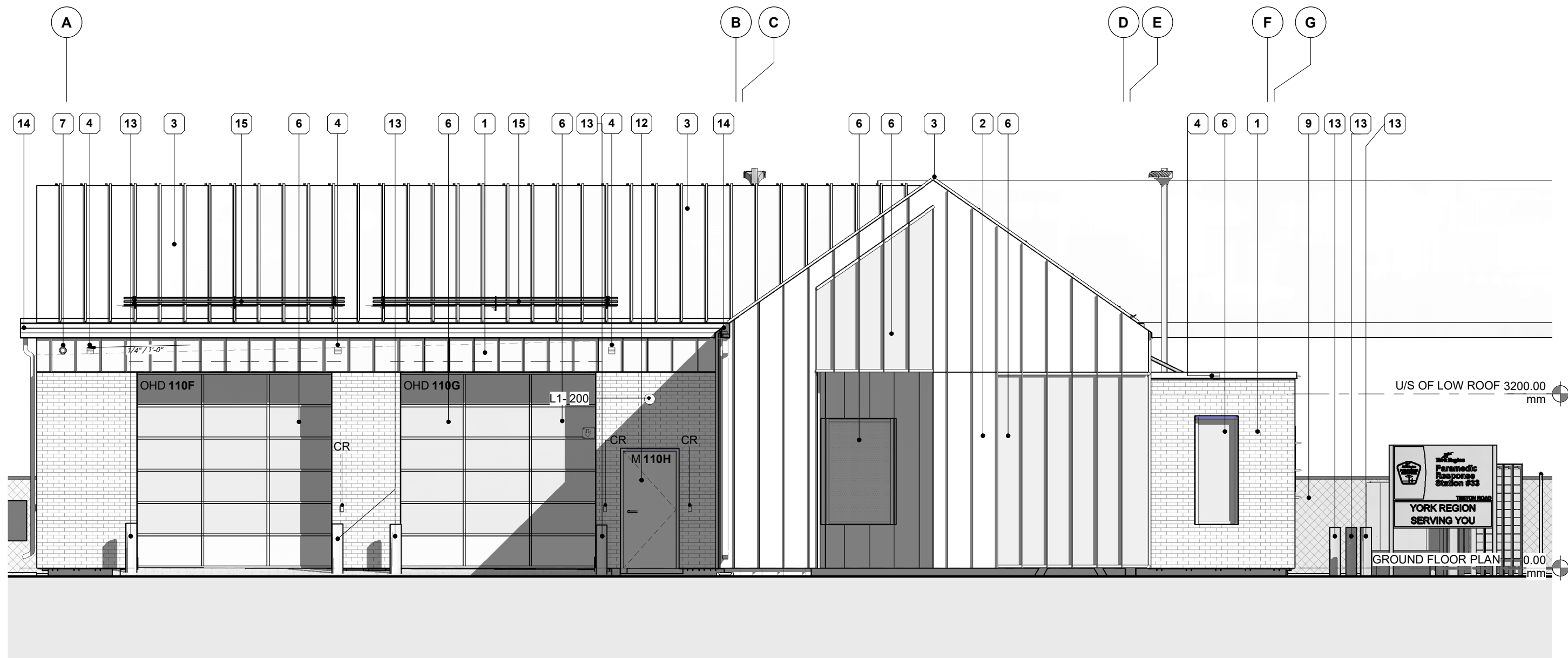
1 SOUTH ELEVATION

1:75



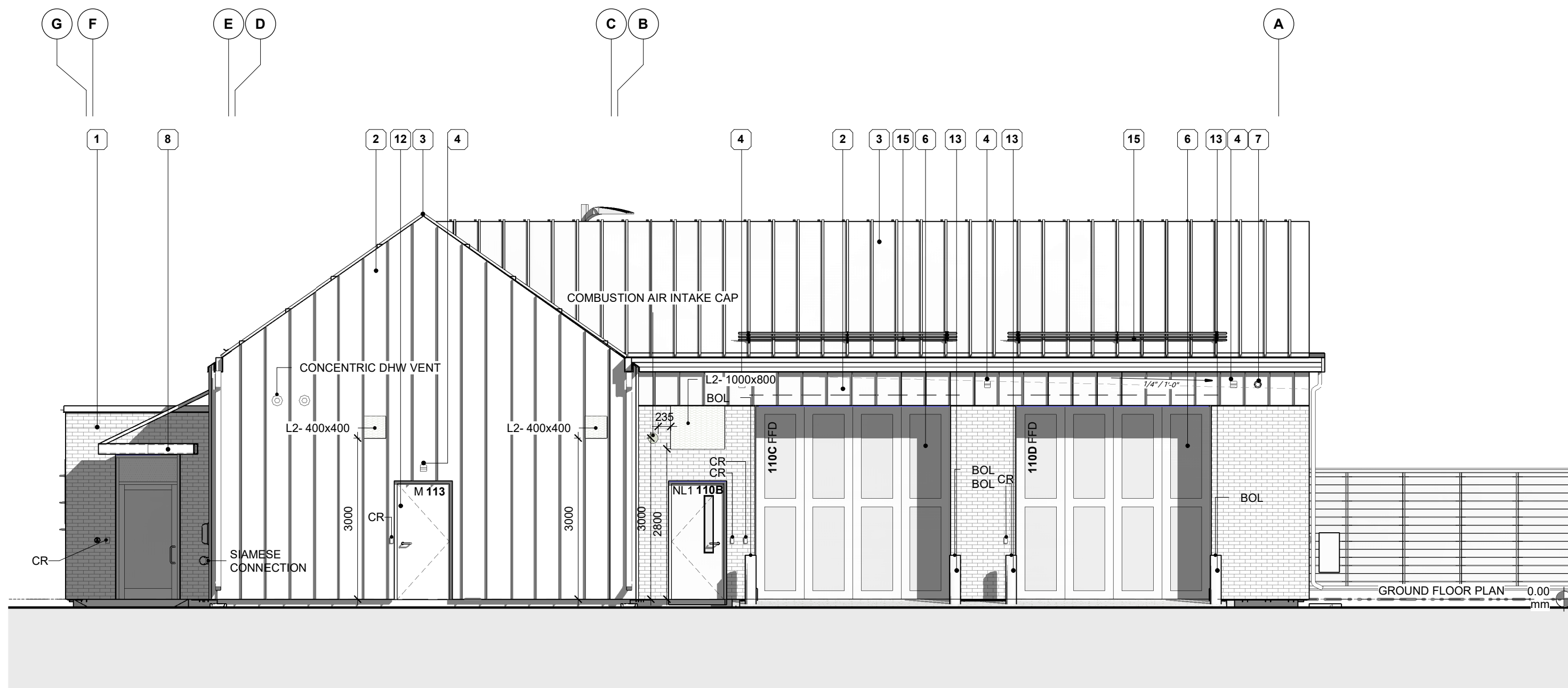
2 NORTH ELEVATION

1:75



5 WEST ELEVATION

1:75



3 EAST ELEVATION

1:75

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
8	90% CONTRACT DOCUMENTS	2020.12.03
10	MINOR VARIANCE APPLICATION	2021.03.11
12	RESUBMISSION	2023.07.07
14	BUILDING PERMIT	2023.10.17
18	100% CLIENT REVIEW PRE-TENDER	2024-09-05
19	100% CLIENT REVIEW	2025-10-30

YORK REGION PRS #33 RFTC  
397-21

PROJECT:

CLIENT

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

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

PROFESSIONAL SEAL

DWG TITLE  
BUILDING  
ELEVATIONS

ORIENTATION

DATE  
2020-11-18

PROJECT No.  
1622

DRAWING No.  
A5.1

REVISION  
19

2960 TESTON ROAD, VAUGHAN

2025-11-02 9:56:02 PM



2960 TESTON ROAD, VAUGHAN

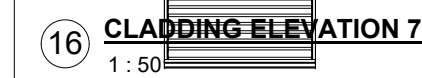
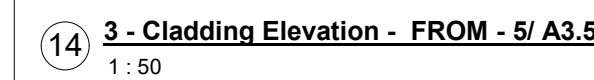
**CLIENT**

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

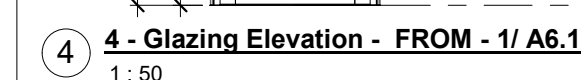
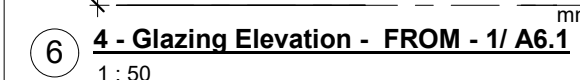
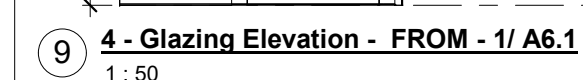
PROFESSIONAL SEAL

DWG TITLE

## ORIENTATION



TYPE	SPECIFIED BASIS OF DESIGN
W1	BASIS OF DESIGN KAWNEER 1620 SSG OR EQUIVALENT
W2	BASIS OF DESIGN KAWNEER 451 OR EQUIVALENT
W3	BASIS OF DESIGN KAWNEER 1620 SSG OR EQUIVALENT
W4	BASIS OF DESIGN KAWNEER 1620 SSG OR EQUIVALENT
W5	BASIS OF DESIGN KAWNEER 1620 SSG OR EQUIVALENT
W6	BASIS OF DESIGN KAWNEER 1620 SSG OR EQUIVALENT





ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
4	SPA SUBMISSION 1	2020.08.11
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT:  
**YORK REGION PRS #33 RFTC**  
**397-21**

2960 TESTON ROAD, VAUGHAN

CLIENT

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

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

PROFESSIONAL SEAL

DWG TITLE

**BUILDING SECTIONS**

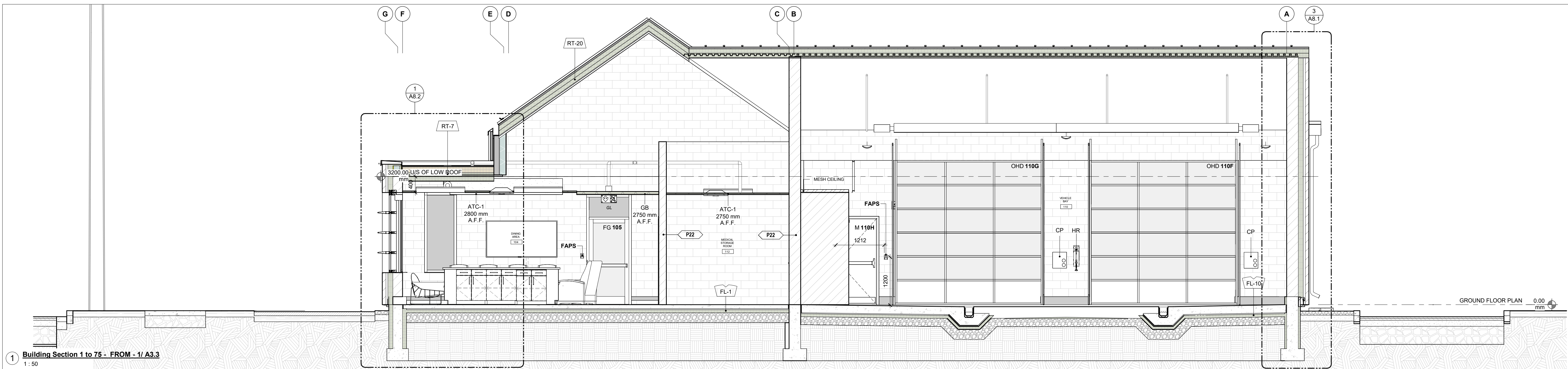
ORIENTATION

DATE  
2020-11-18

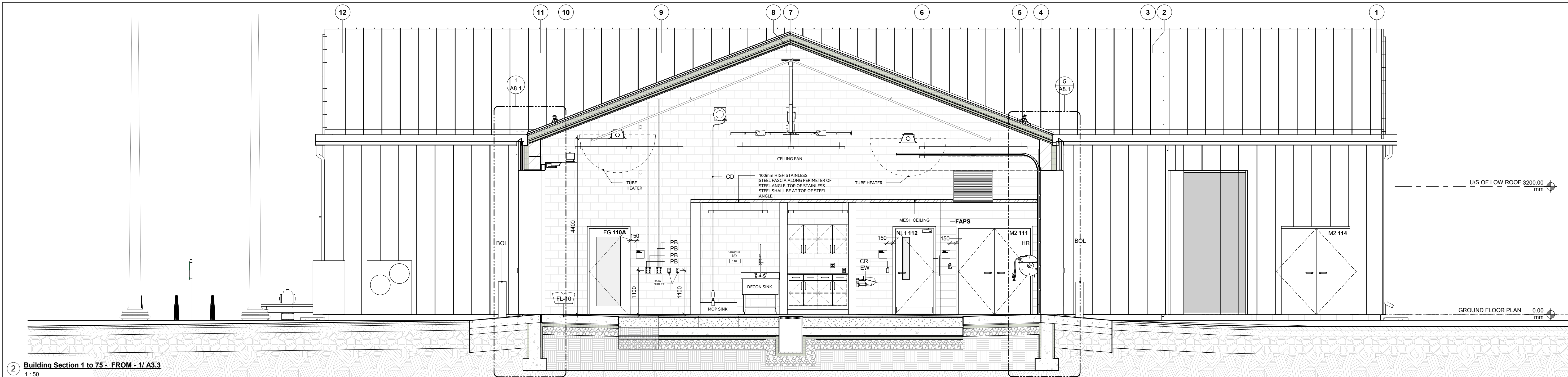
PROJECT No.  
**1622**

DRAWING No.  
**A7.1**

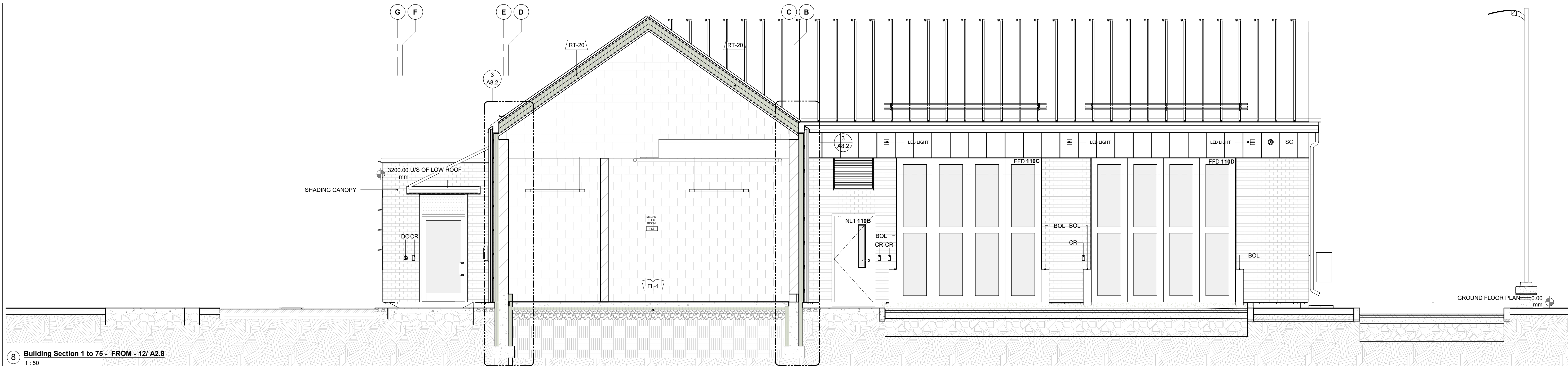
REVISION  
19



1 Building Section 1 to 75 - FROM - 1/ A3.3  
1 : 50

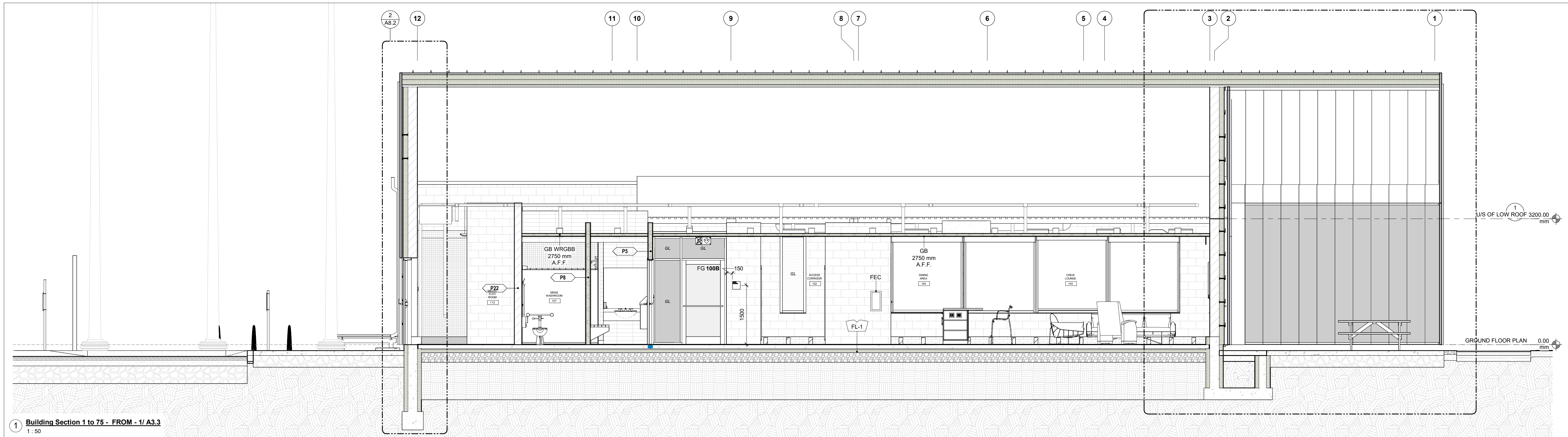


2 Building Section 1 to 75 - FROM - 1/ A3.3  
1 : 50

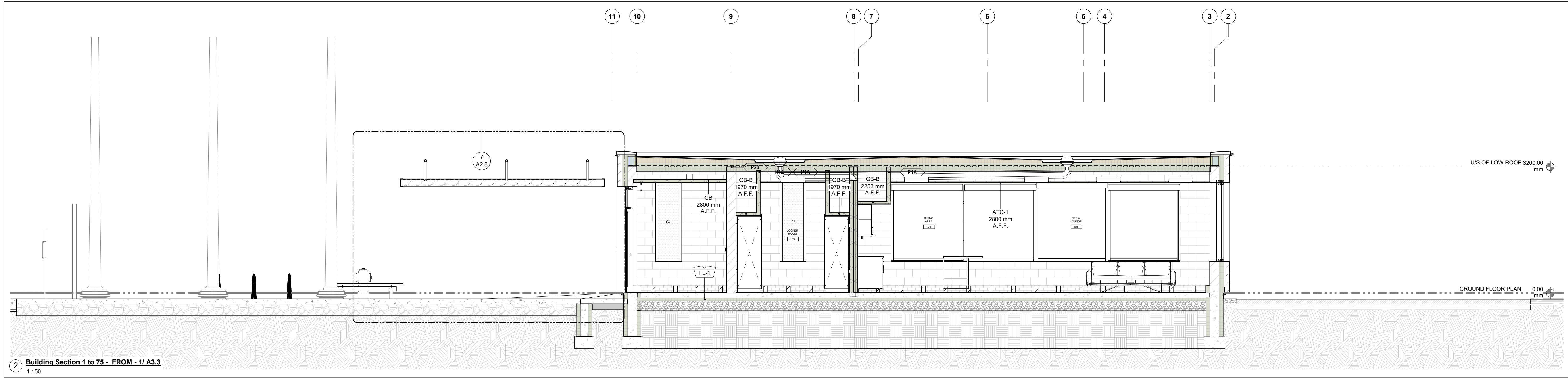


8 Building Section 1 to 75 - FROM - 12/ A2.8  
1 : 50





1 Building Section 1 to 75 - FROM - 1/ A3.3  
1:50



2 Building Section 1 to 75 - FROM - 1/ A3.3  
1:50

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
4	SPA SUBMISSION 1	2020.08.11
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT:  
**YORK REGION PRS #33 RFTC**  
**397-21**  
2960 TESTON ROAD, VAUGHAN

CLIENT

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

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

PROFESSIONAL SEAL

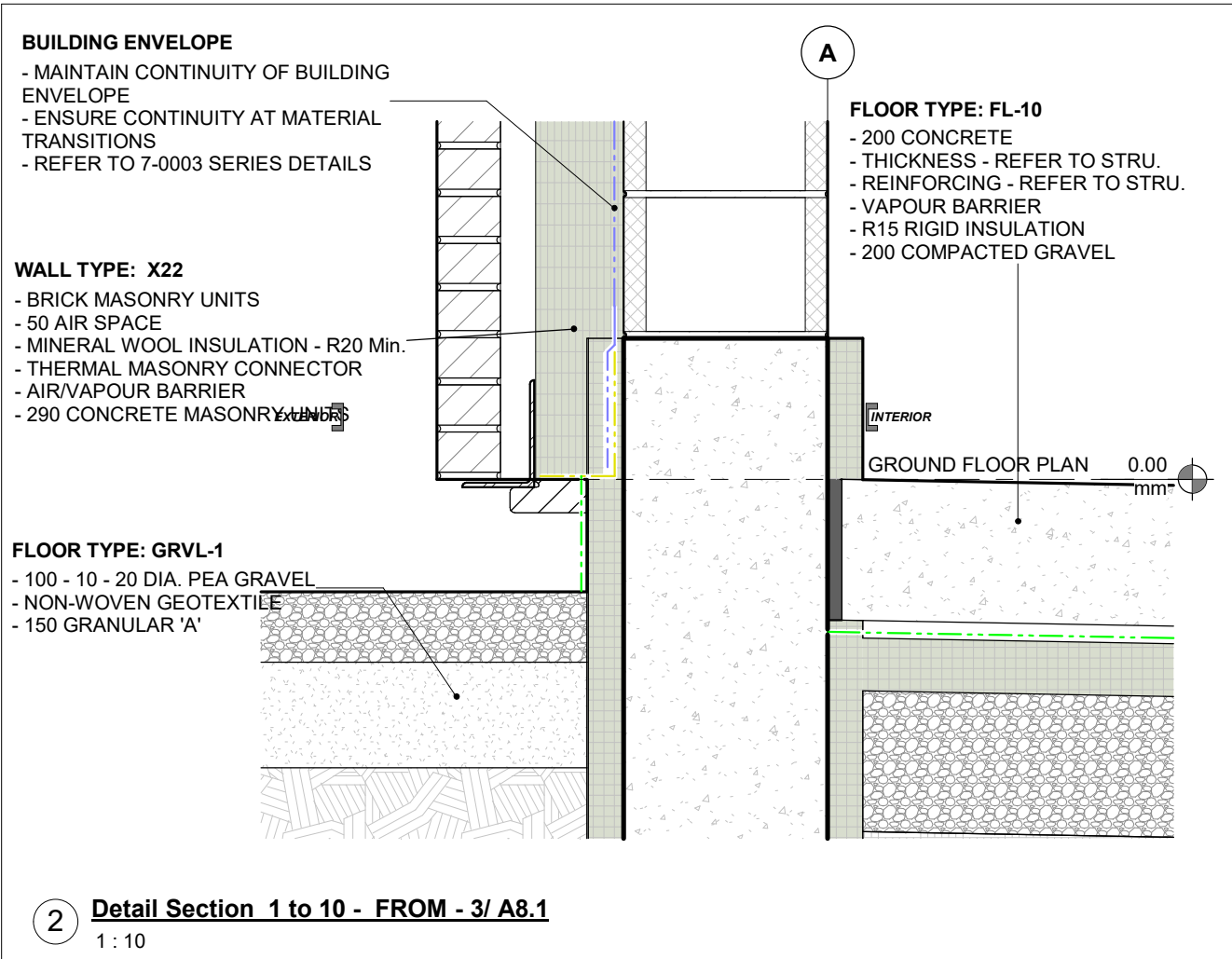
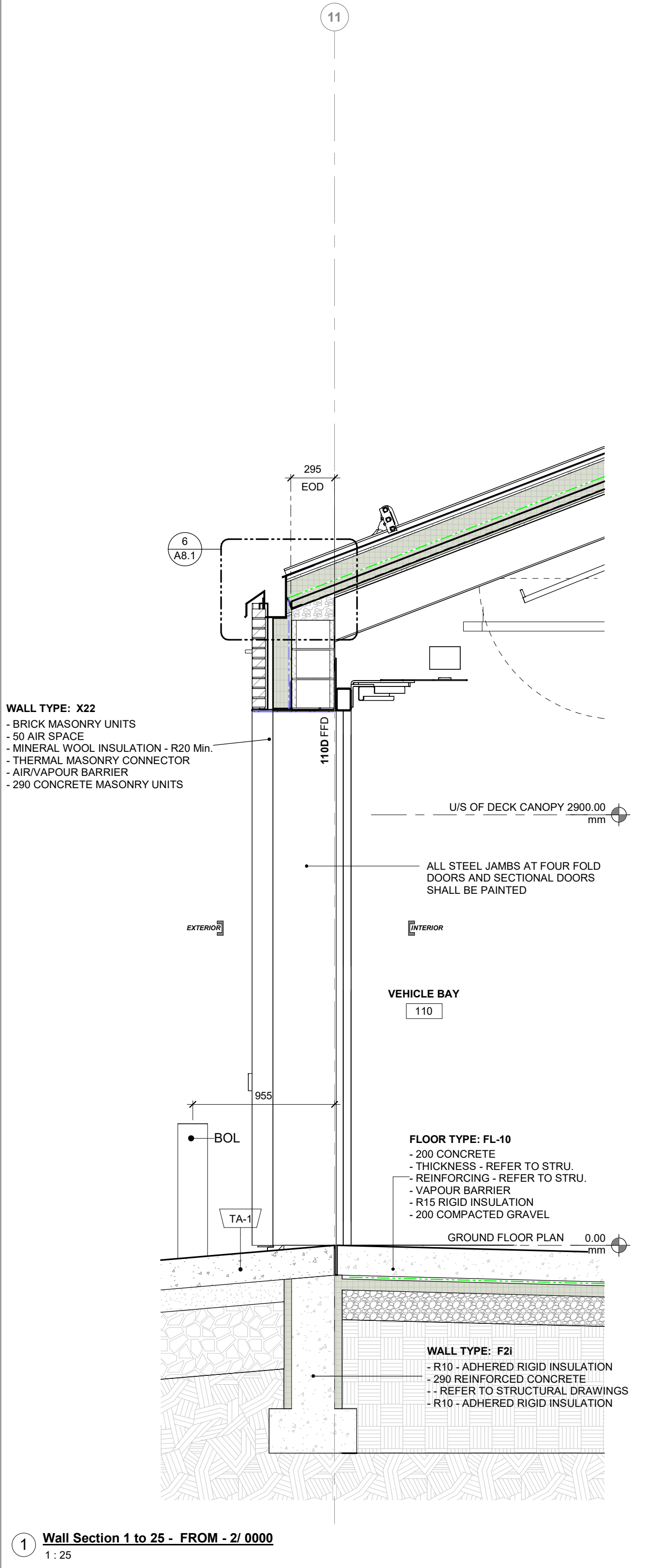
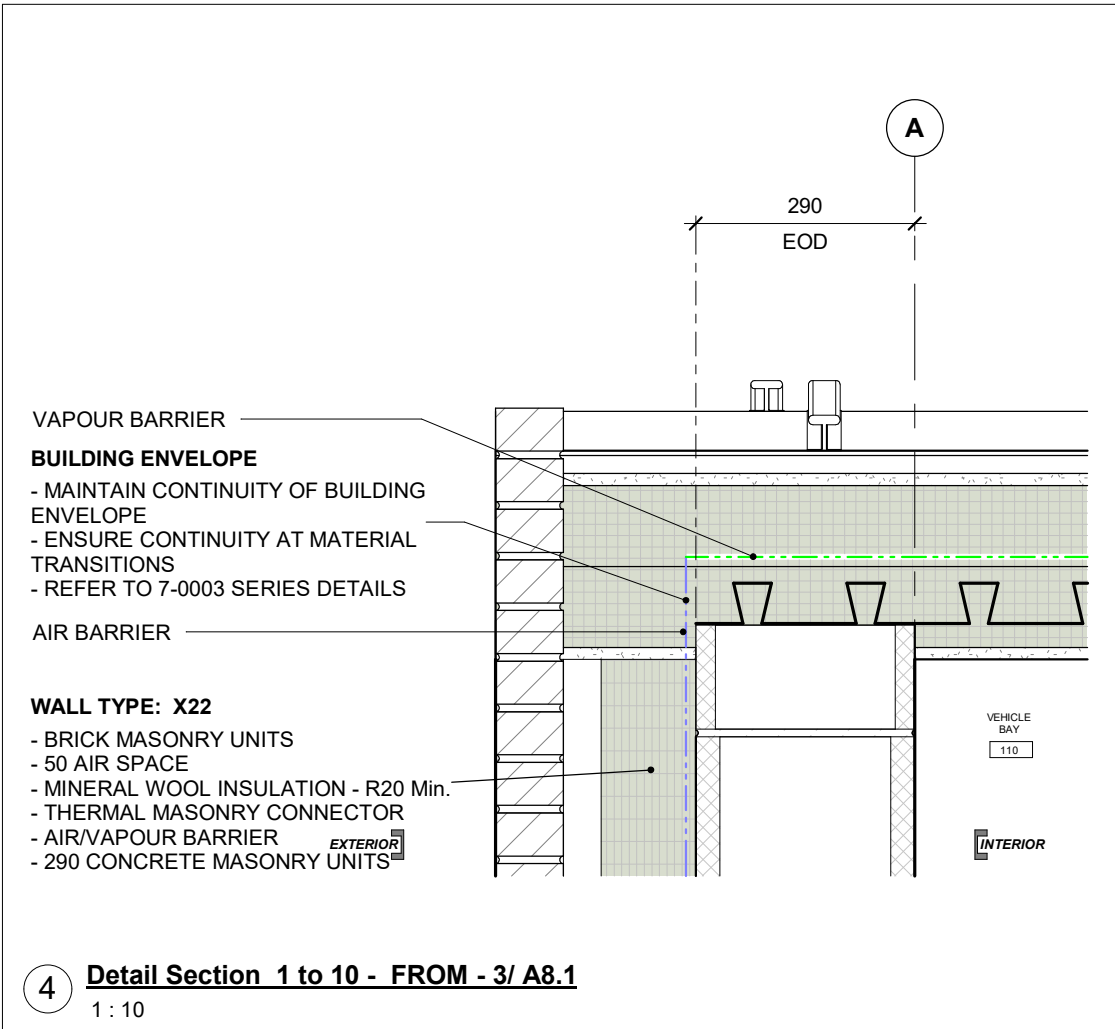
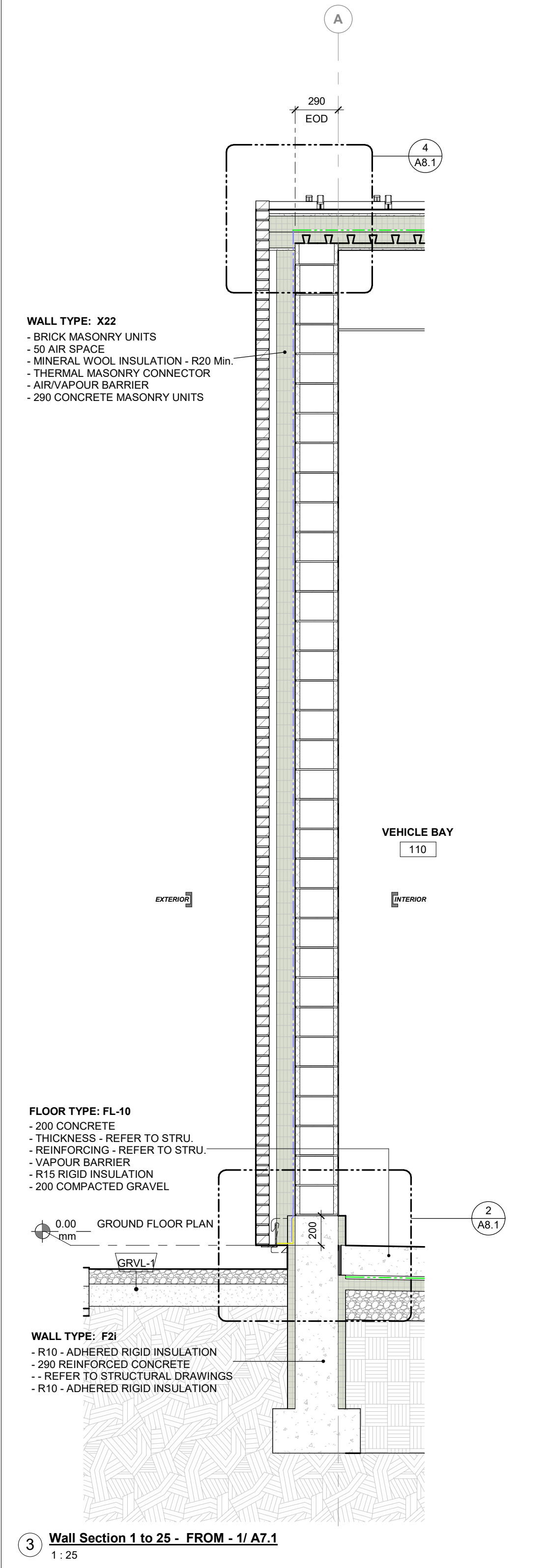
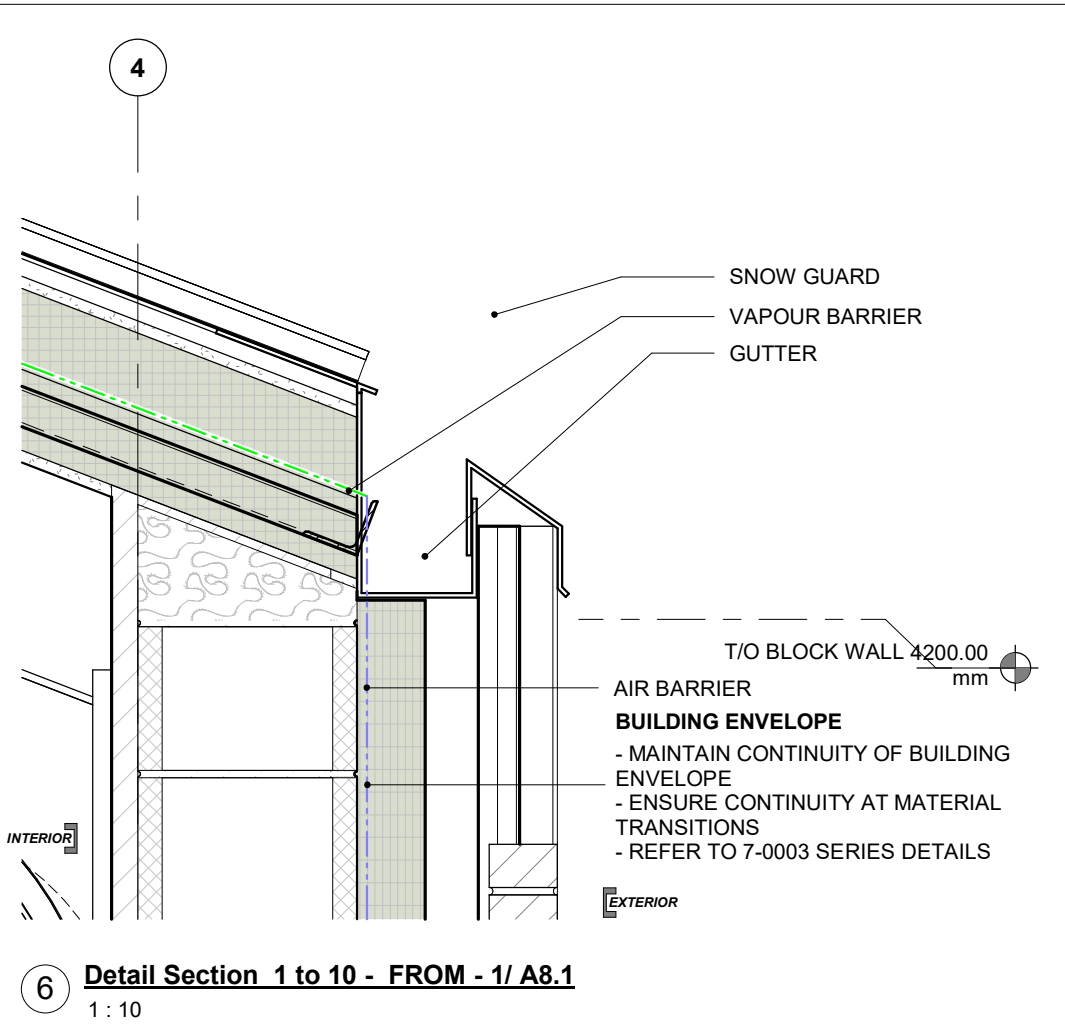
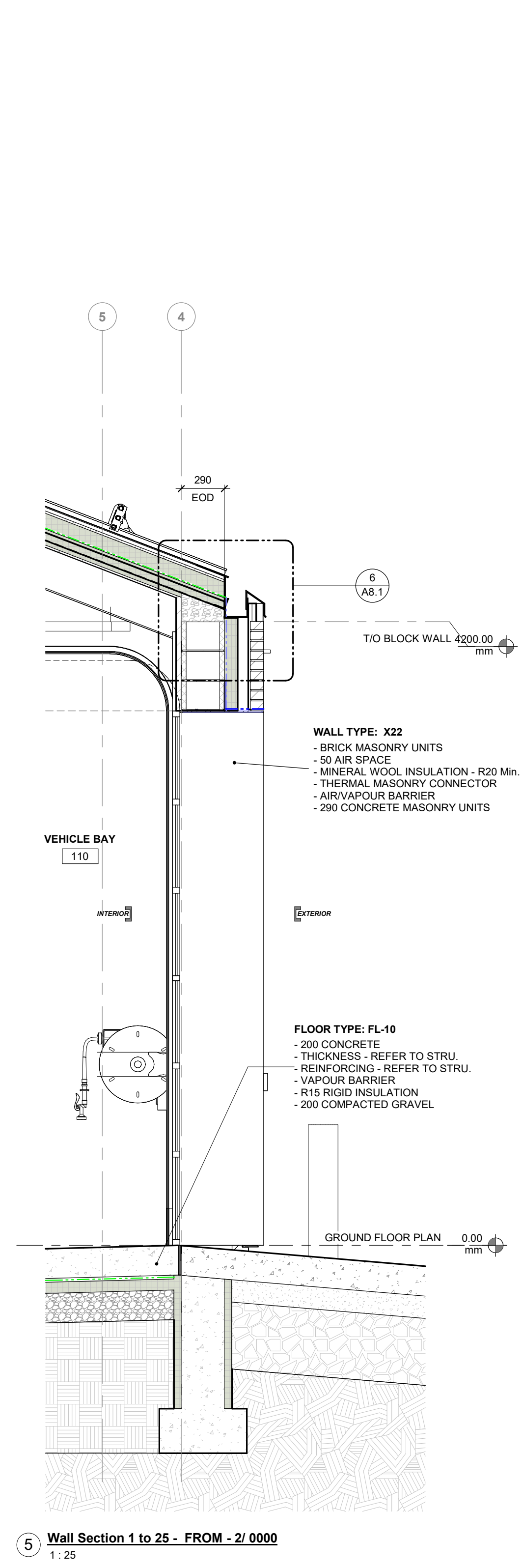
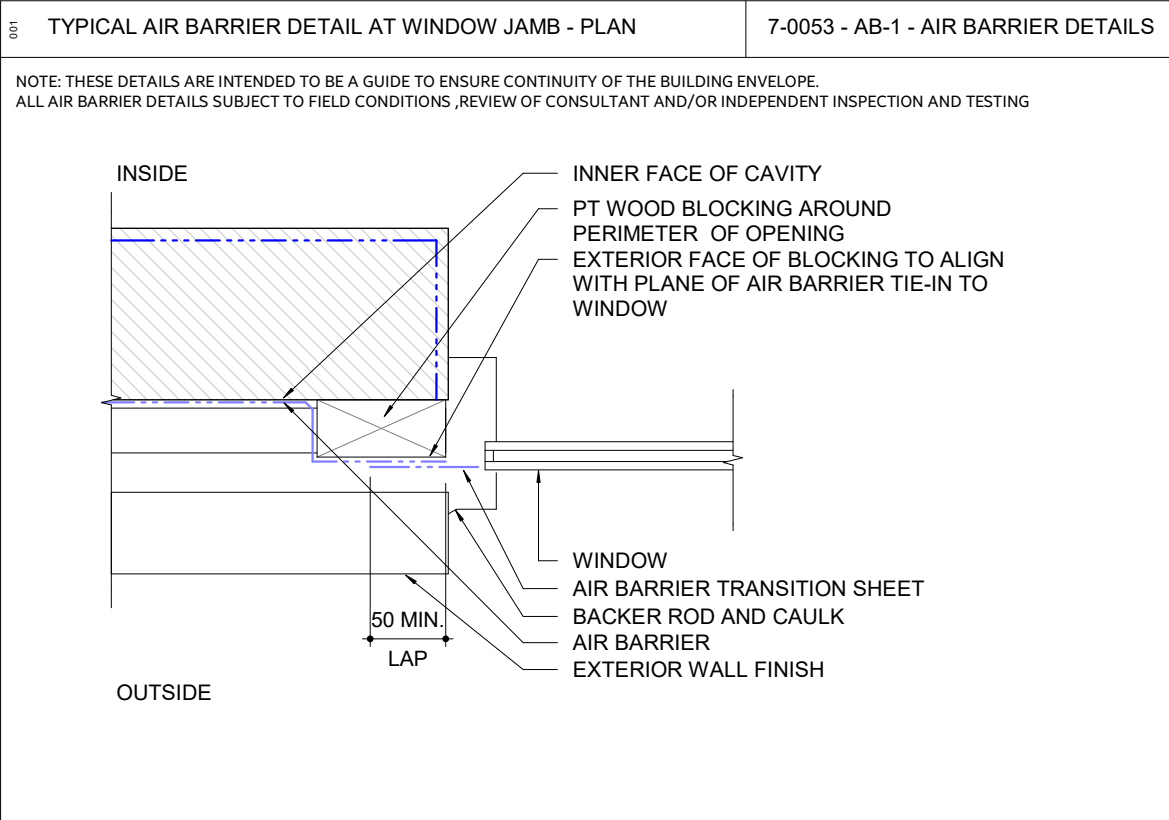
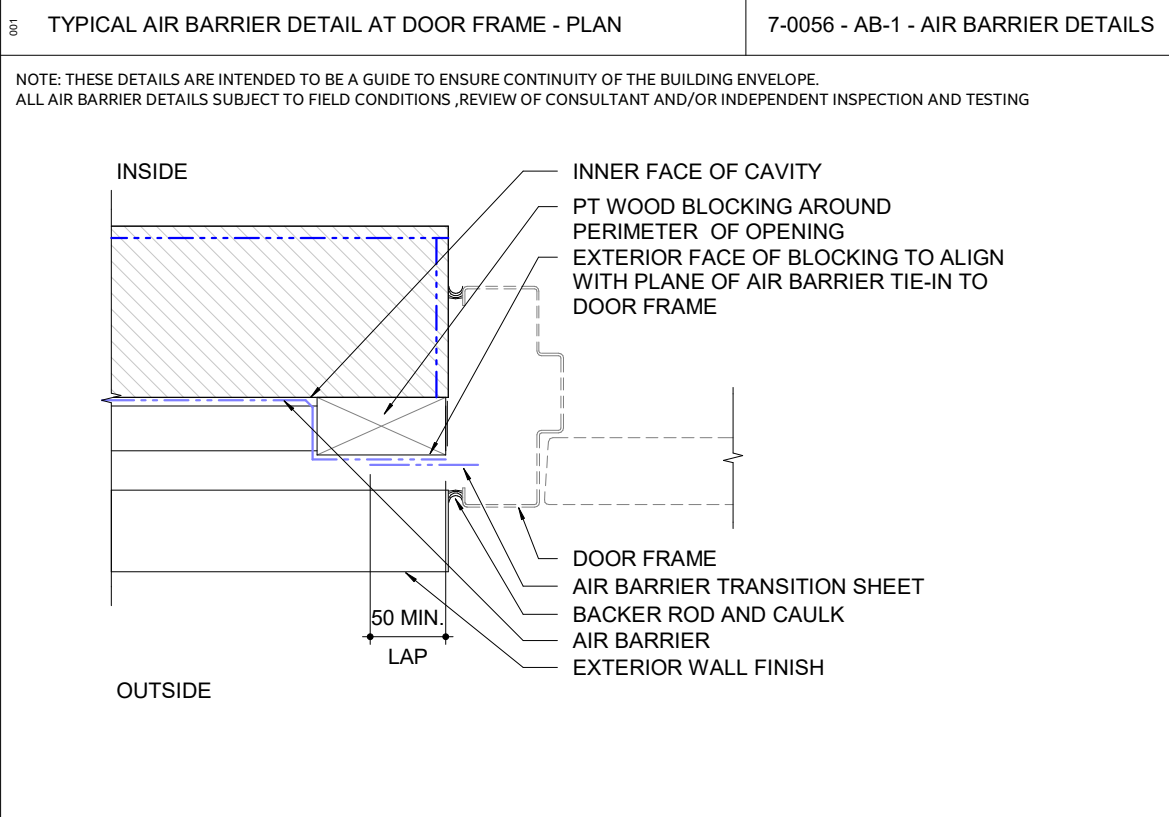
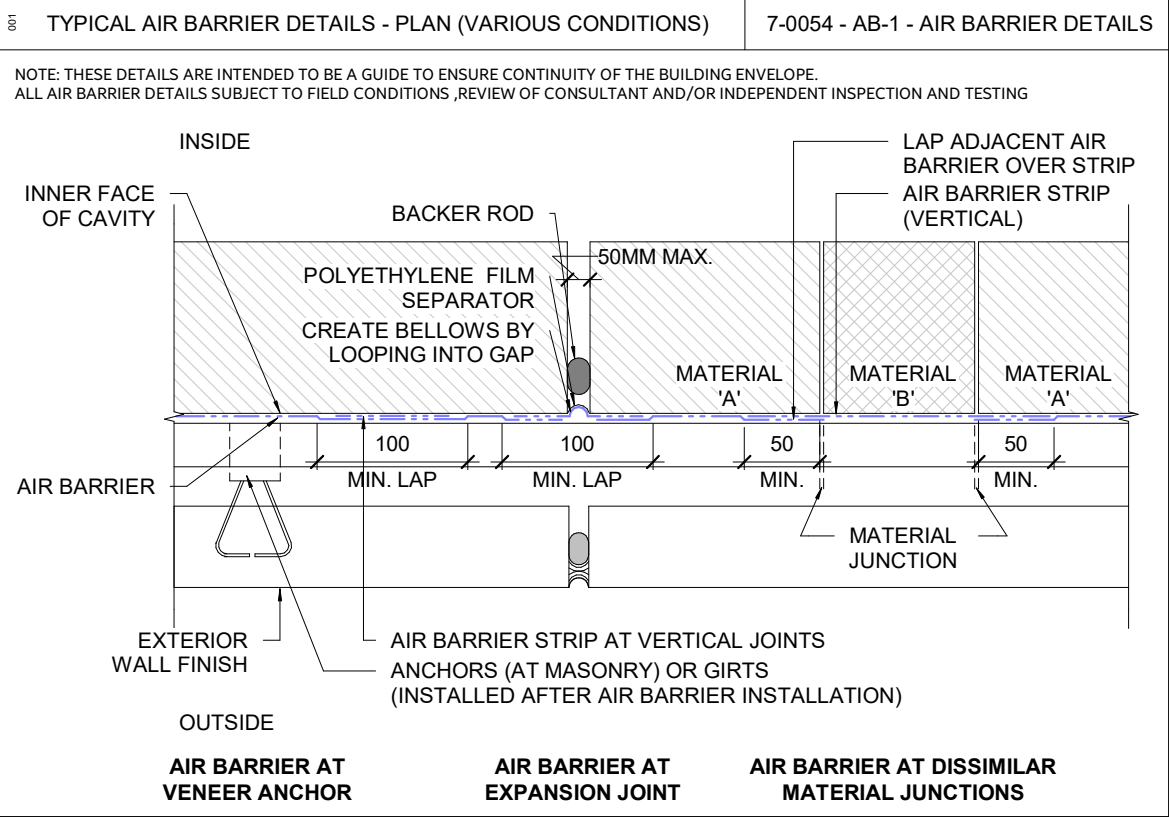
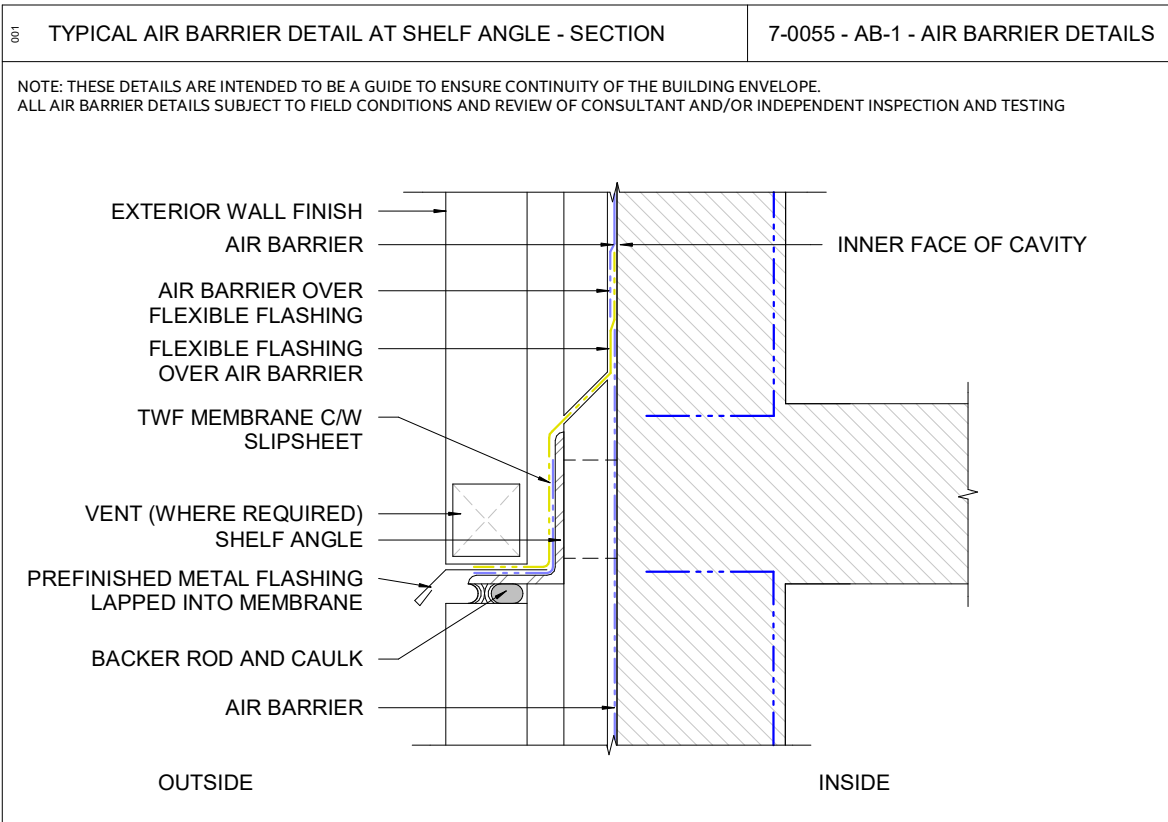
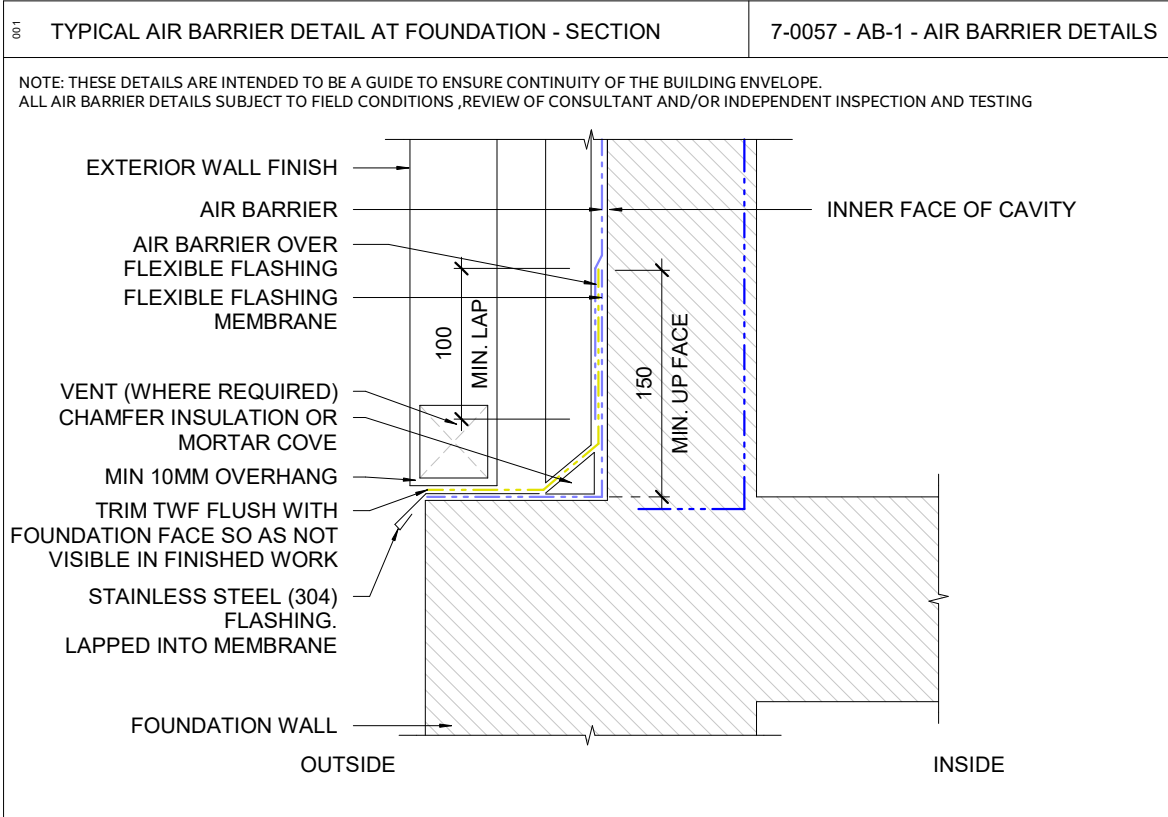
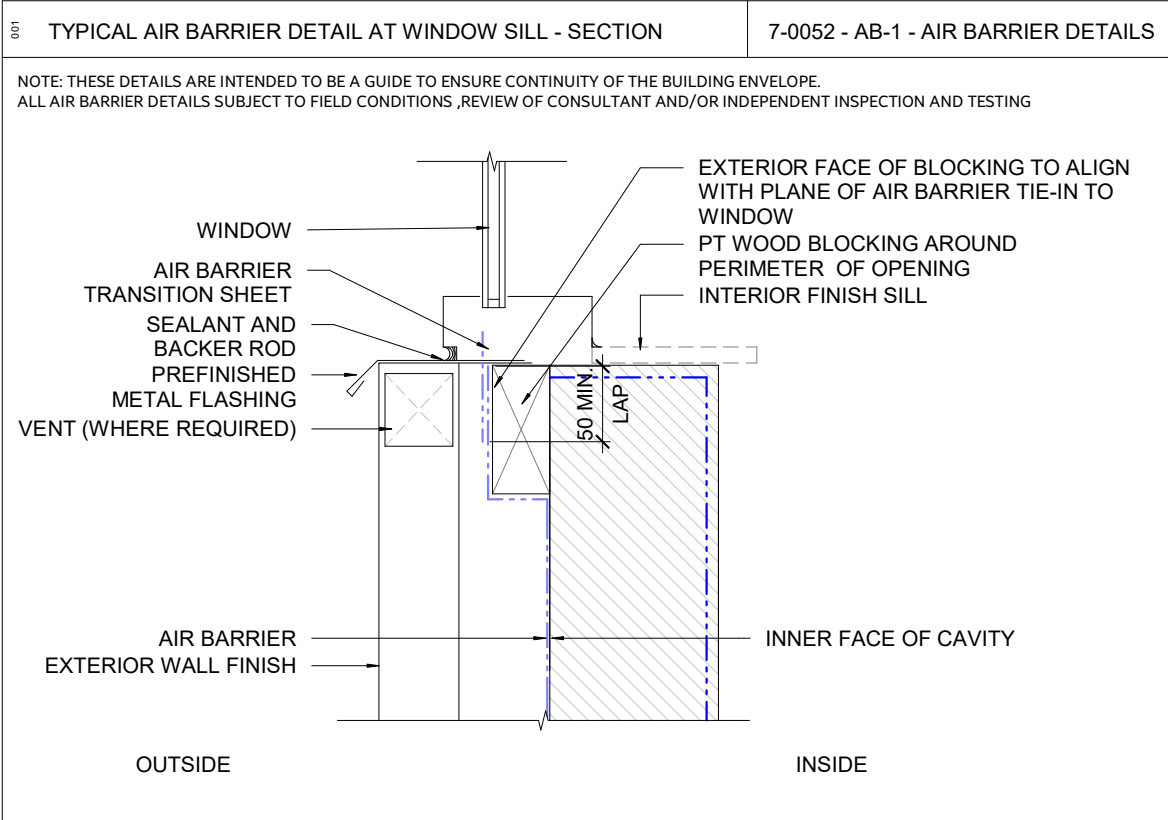
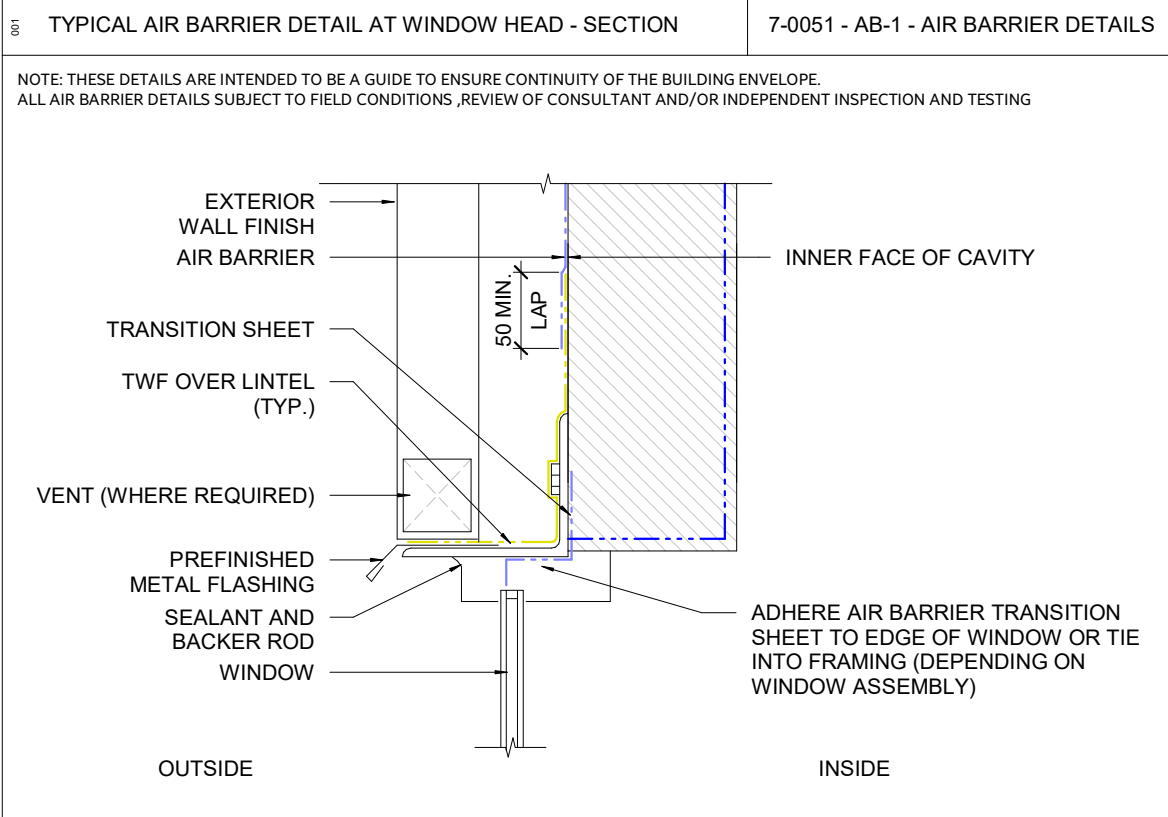
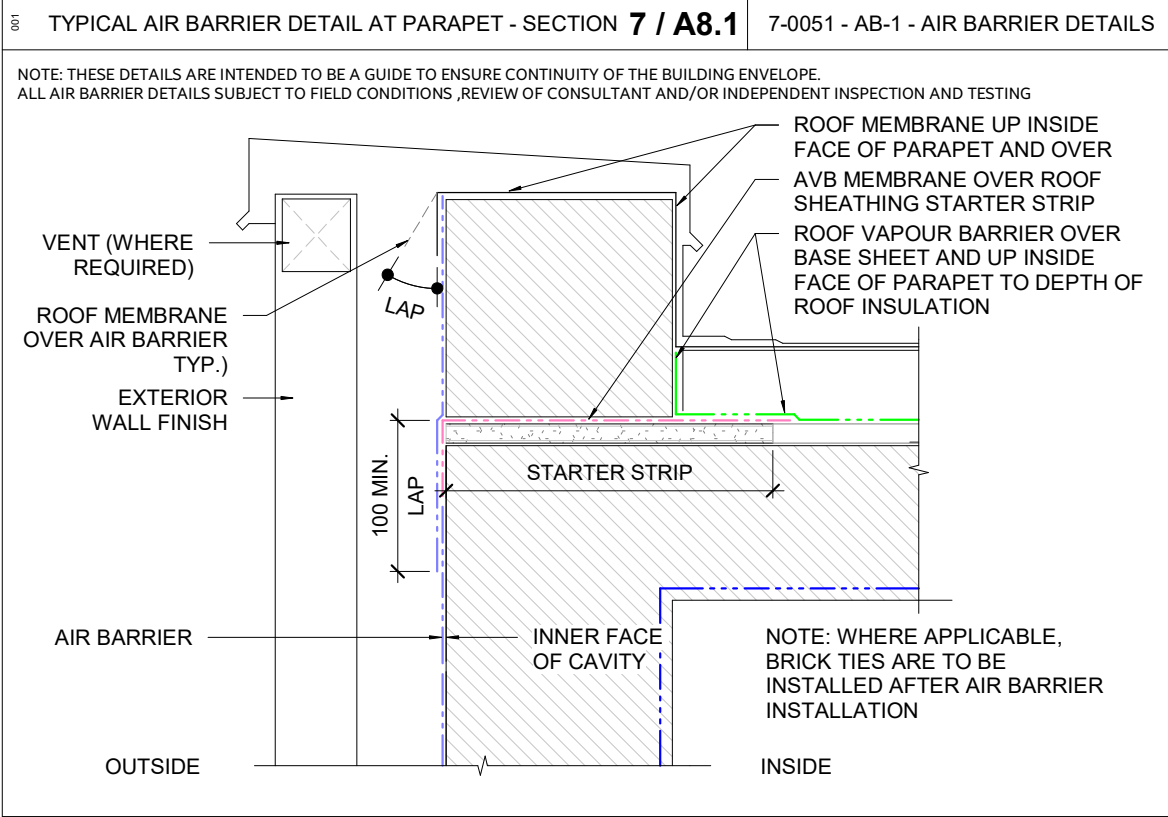
DWG TITLE  
**BUILDING SECTIONS**

ORIENTATION

DATE	2020-11-18
PROJECT No.	1622
DRAWING No.	A7.2
REVISION	19

2025-11-02 9:56:14 PM





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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT: **YORK REGION PRS #33 RFTC**  
397-21  
2960 TESTON ROAD, VAUGHAN

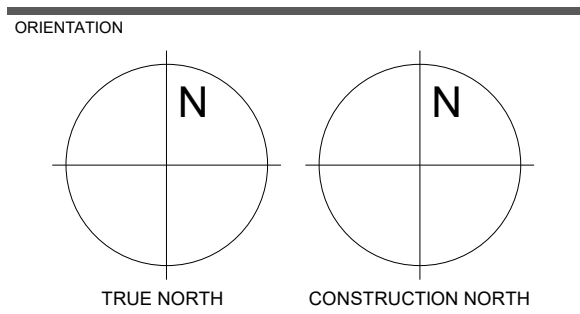
CLIENT

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

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

PROFESSIONAL SEAL

DWG TITLE  
**WALL SECTIONS**



DATE	2020-11-18
PROJECT No.	1622
DRAWING No.	A8.1
REVISION	19

2025-11-02 9:56:17 PM



ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT:  
CLIENT

# YORK REGION PRS #33 RFTC 397-21

2960 TESTON ROAD, VAUGHAN

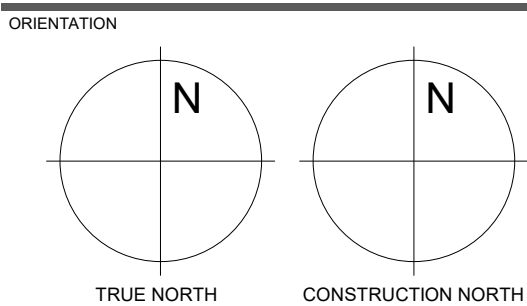
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR  
TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES  
ARE TO BE REPORTED TO THE CONSULTANT.

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

PROFESSIONAL SEAL

DWG TITLE

## WALL SECTIONS

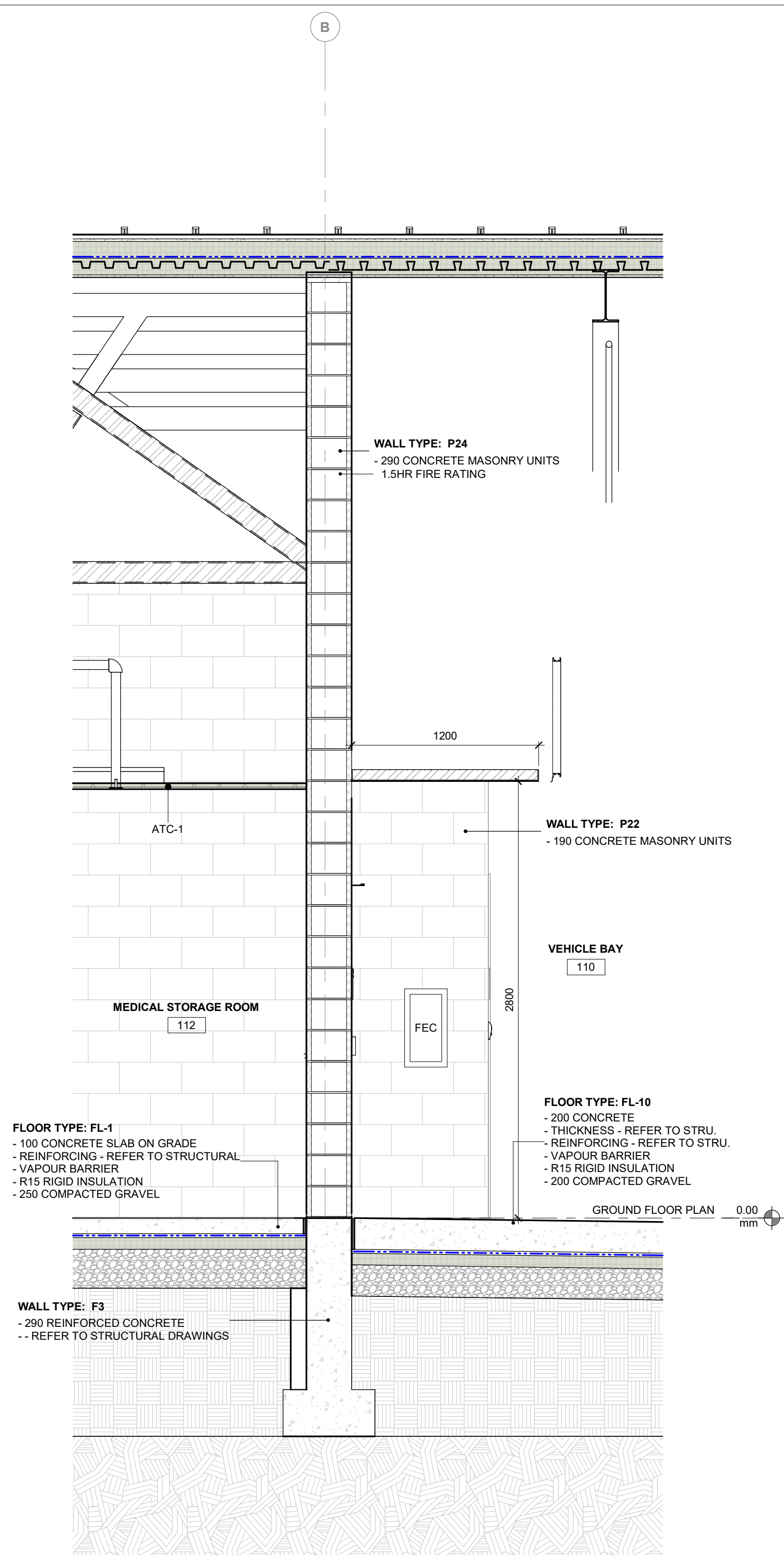


DATE  
2020-11-18

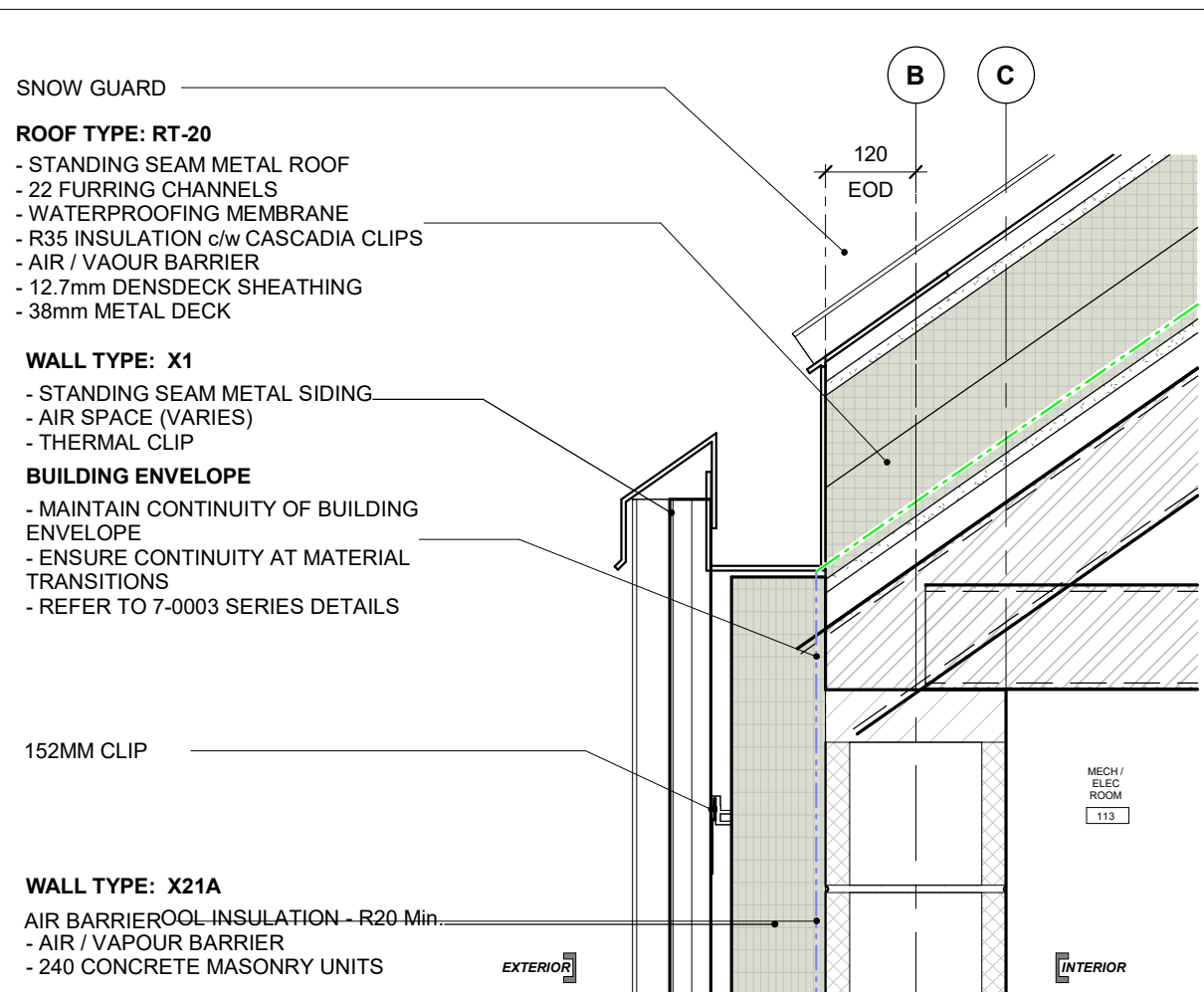
PROJECT NO.  
**1622**

DRAWING NO.  
**A8.2**

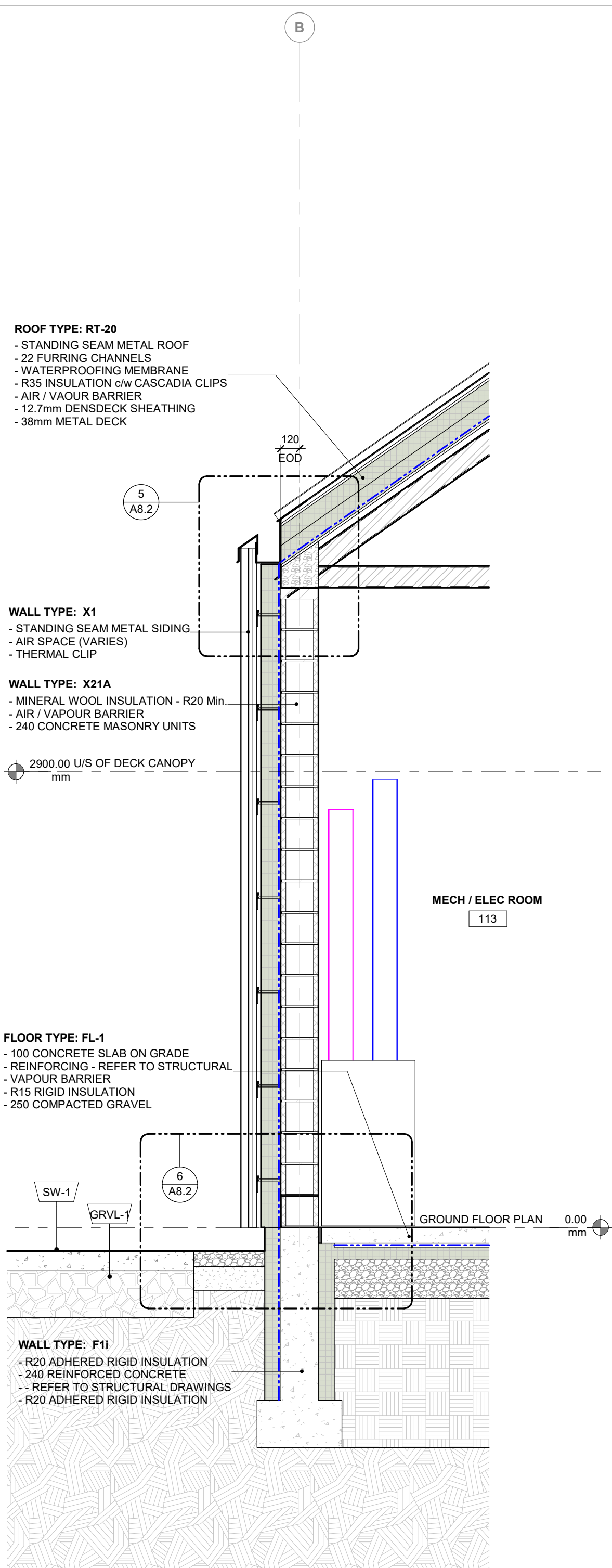
REVISION  
19



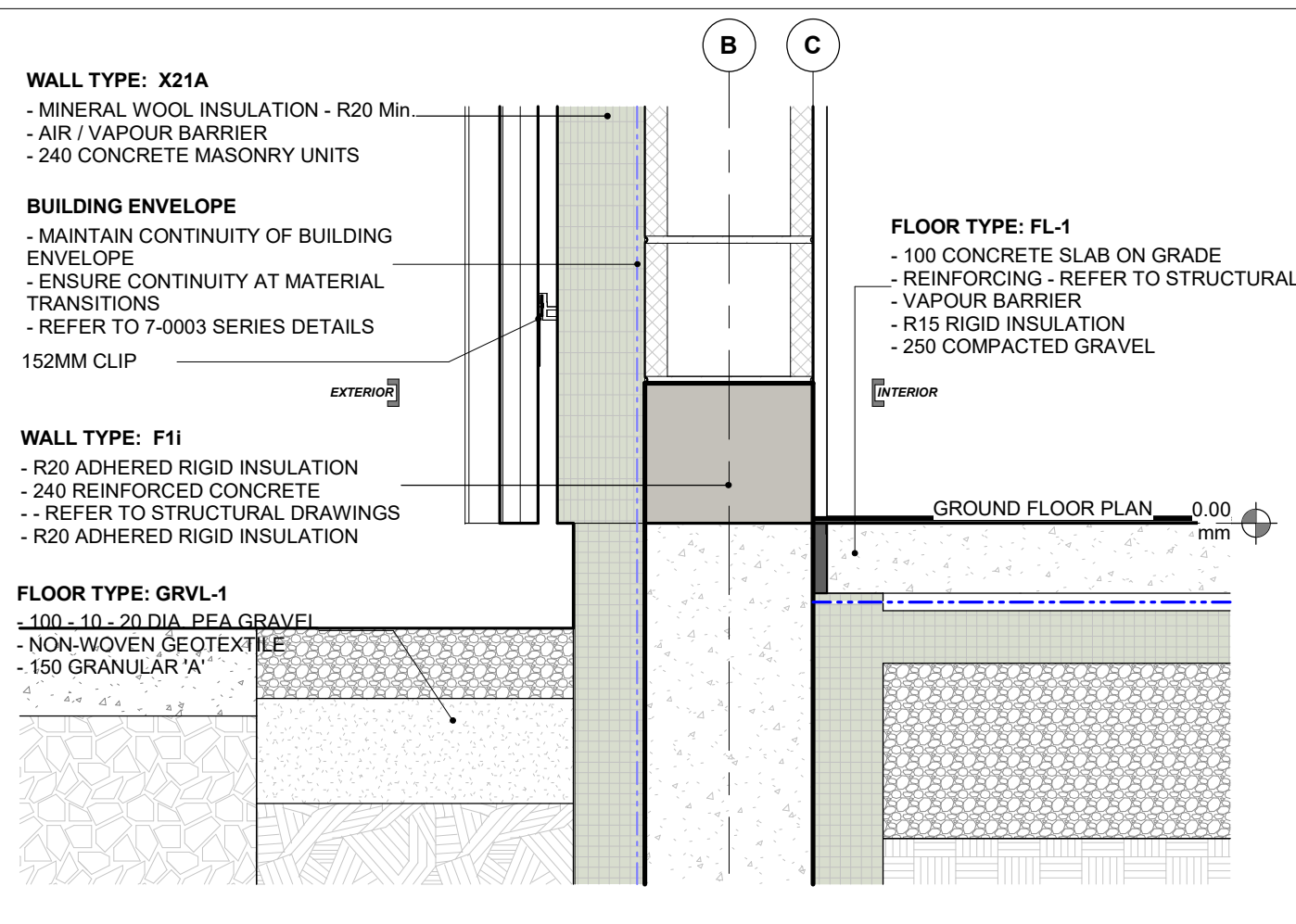
4 Wall Section 1 to 25 -  
1:25



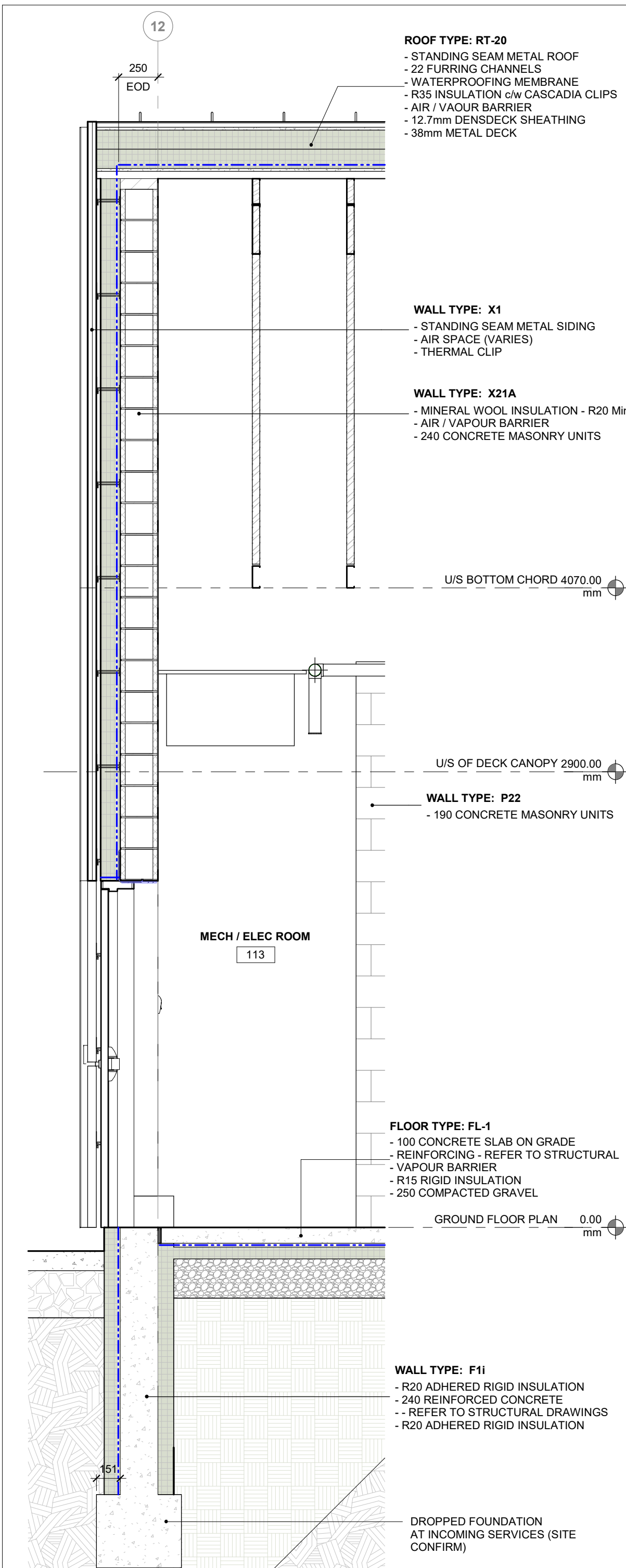
5 Detail Section 1 to 10 - FROM - 3/ A8.2  
1:10



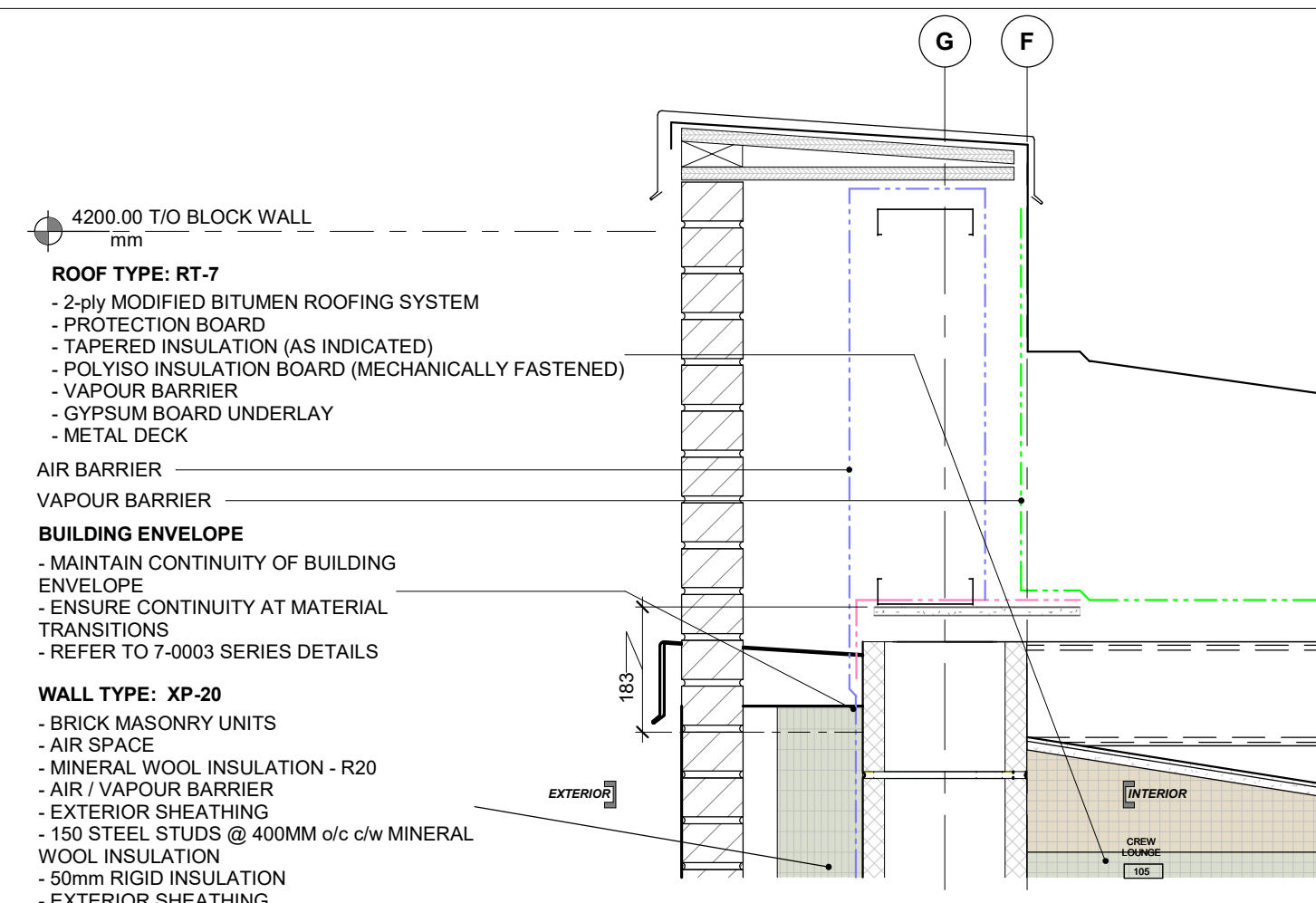
3 Wall Section 1 to 25 - FROM - 8/ A7.1  
1:25



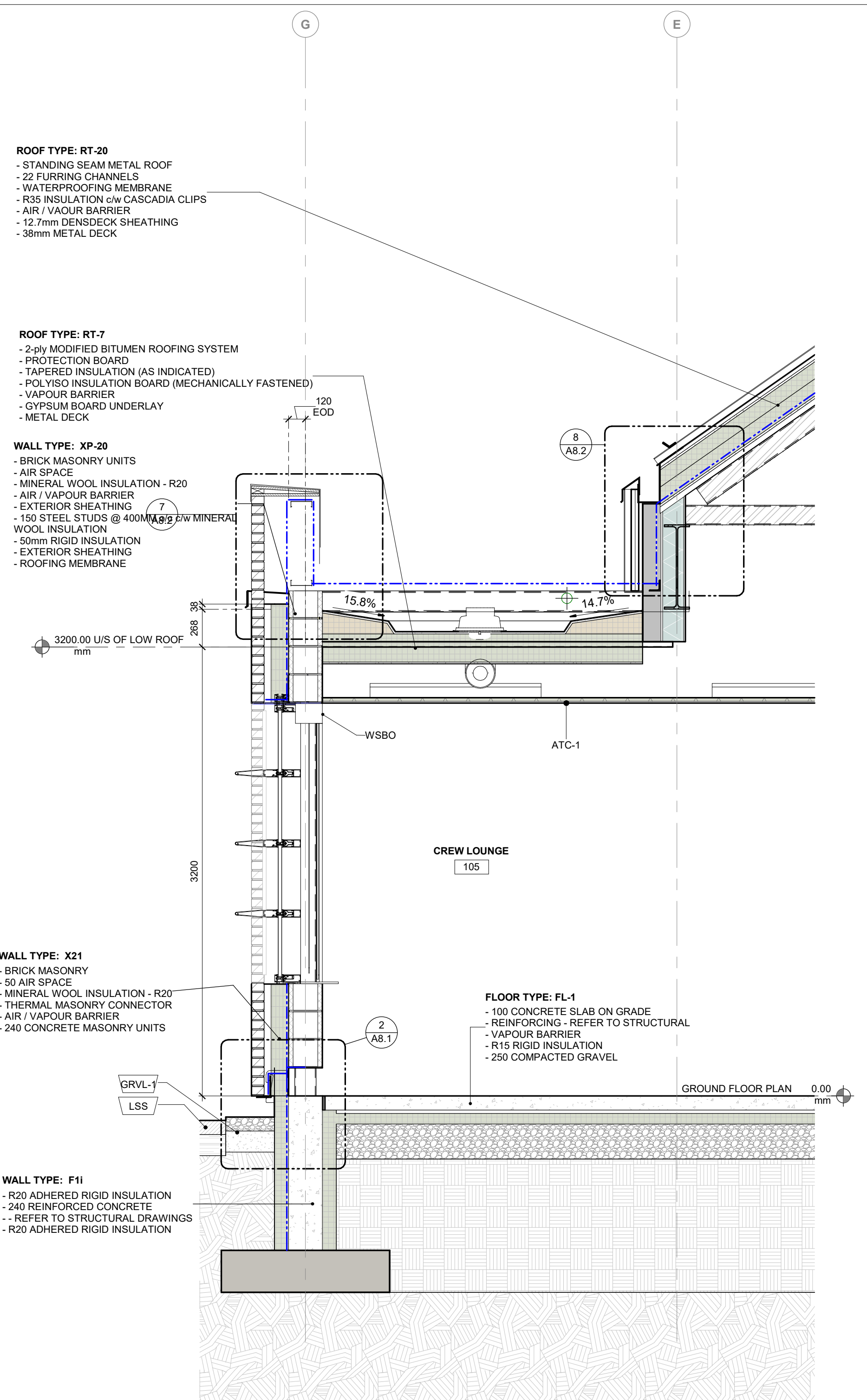
6 Detail Section 1 to 10 - FROM - 3/ A8.2  
1:10



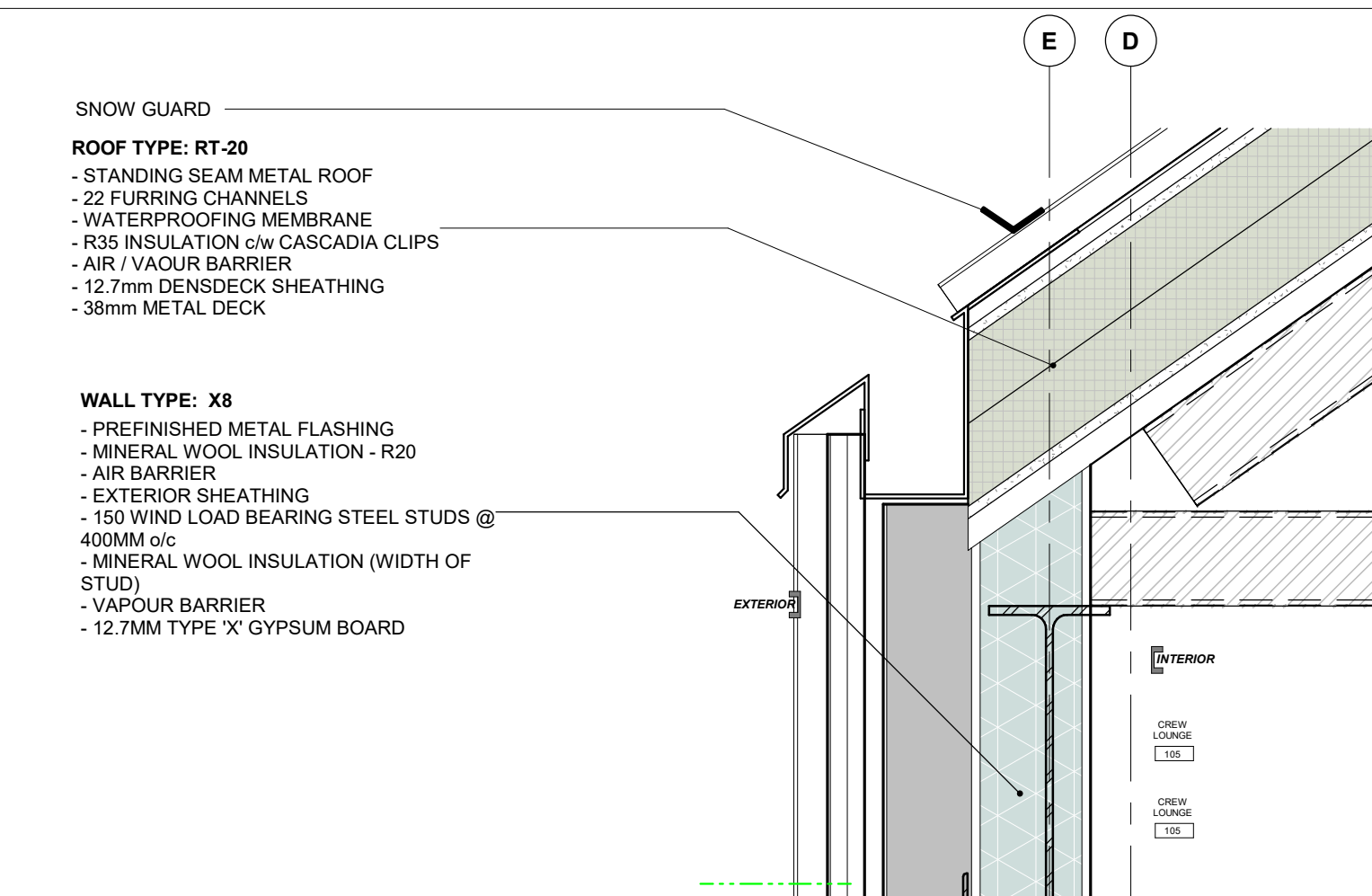
2 Wall Section 1 to 25 - FROM - 1/ A7.2  
1:25



7 Detail Section 1 to 10 - FROM - 1/ A8.2  
1:10





1 Wall Section 1 to 25 - FROM - 1/ A7.1  
1:25







8 Detail Section 1 to 10 - FROM - 1/ A8.2  
1:10






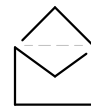
## 6 FLOOR ASSEMBLIES - FINISHES



CT-1		
	FLOOR FINISH - SEE ALSO ROOM FINISH SCHEDULE	
	- FLOOR TILE - STONE TILE - BETONTECH - MUD 300 x 600 - 1/4 - RUNNING BOND - 25% OVERLAP - GROUT SHALL BE: MAPEI #107 IRON - BASE AT WALL: - 100mm CT-1 BASE AT ALL WALL JUNCTIONS	

CT-2		
	FLOOR FINISH - SEE ALSO ROOM FINISH SCHEDULE	
	- SHOWER FLOOR TILE - OLYMPIA TILE - QUEBEC - DARK GREY UNGLAZED - MOSAIC 50 x 50 - GROUT SHALL BE: MAPEI #107 IRON	

CT-3		
	FLOOR FINISH - SEE ALSO ROOM FINISH SCHEDULE	
	- SOLID SURFACE - WHITE - 19mm WHITE CARRERA - BEVELED EDGES TWO SIDES, HONED FINISH ON - EXPOSED SURFACES, SIZE TO SUIT OPENING & FRAME - WIDTH	

C-CHC		
	FLOOR FINISH - SEE ALSO ROOM FINISH SCHEDULE	
	- COLOR HARDENED CONCRETE	

C-SLD		
	FLOOR FINISH - SEE ALSO ROOM FINISH SCHEDULE	
	- SEALANT APPLIED TO CONCRETE	

F-EPX		
	FLOOR FINISH - SEE ALSO ROOM FINISH SCHEDULE	
	- EPOXY PAINT FINISH - COROTECH EPOXY - V400-75 BATTLESHIP GREY	

## 5 / A9.1

## WAYFINDING INTERIOR SIGNAGE

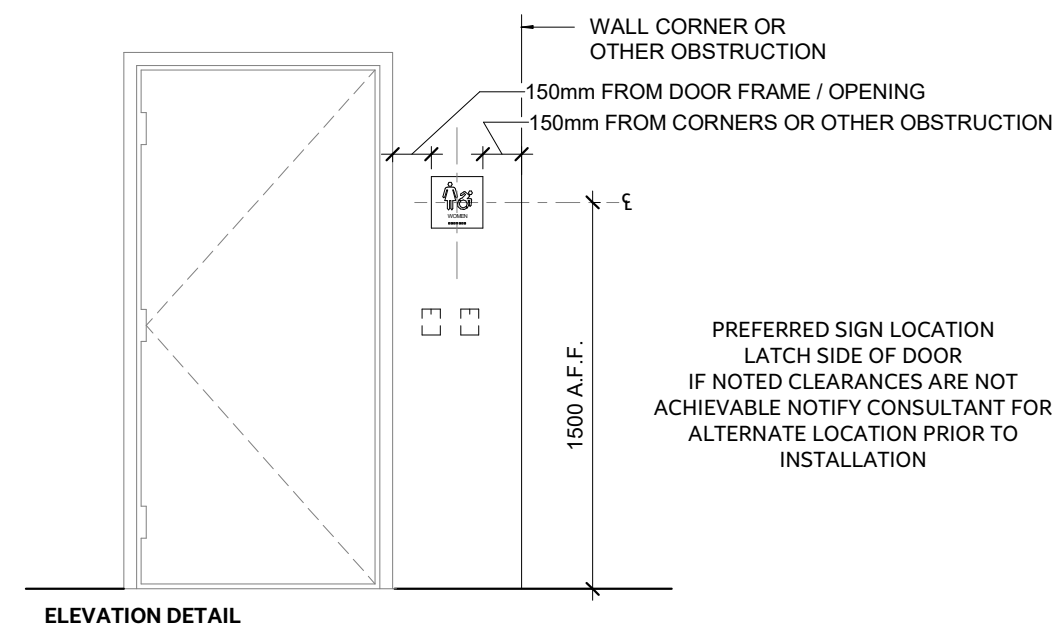
**TYPE** DANSIGN CURVE  
**FONT** FUTURA MEDIUM & FUTURA HEAVY

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

## BRAILLE AND TACTILE LETTERS

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

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



ELEVATION DETAIL

## OFFICE/ROOM SIGNS (CHANGEABLE MESSAGE)

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

**MATERIAL**  
LACQUERED ABS WITH EXTRUDED ALUMINUM BRACKETS

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

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

## ROOM SIGNS (PERMANENT MESSAGE)

**MATERIAL**  
LACQUERED ABS WITH EXTRUDED ALUMINUM BRACKETS

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

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

## WASHROOM SIGNS

**MATERIAL**  
LACQUERED ABS WITH EXTRUDED ALUMINUM BRACKETS.

**MESSAGE**  
TACTILE TEXT AND PICTOGRAM AND BRAILLE

## INSTALLATION

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

## 3 WALL &amp; CEILING PAINT FINISHES

PNT-1	PAINT FINISH
	MANUFACTURER - BENJAMIN MOORE NUMBER - OC-65 COLOR - CHANTILLY LACE TYPE - INTERIOR ACRYLIC PAINT FINISH - EGGSHELL FINISH LOCATION - WALLS, EXPOSED STEEL, UNLESS OTHERWISE NOTED


PNT-2	PAINT FINISH
	MANUFACTURER - BENJAMIN MOORE NUMBER - OC-117 COLOR - SIMPLY WHITE TYPE - INTERIOR ACRYLIC PAINT FINISH - EGGSHELL FINISH LOCATION - ALL EXPOSED AND GYPSUM BOARD CEILINGS UNLESS OTHERWISE NOTED


PNT-3	PAINT FINISH
	MANUFACTURER - DULUX NUMBER - 30yy 10/038 COLOR - FOREST BLACK TYPE - INTERIOR ACRYLIC PAINT FINISH - EGGSHELL FINISH LOCATION - HOLLOW METAL DOORS & FRAMES


PNT-4	PAINT FINISH
	MANUFACTURER - BENJAMIN MOORE NUMBER - 2125-20 COLOR - DEEP SPACE TYPE - EXTERIOR / INTERIOR ACRYLIC PAINT FINISH - EGGSHELL FINISH LOCATION - ALL EXPOSED STEEL IN VEHICLE BAY CEILING (I.E. JOISTS AND DECK, CONDUITS, PIPES, ETC. REFER TO SPECIFICATIONS FOR COLOR FOR GAS AND SPRINKLER PIPES), SECTIONAL & FOUR FOLD DOOR JAMBS.


PNT-5	PAINT FINISH
	MANUFACTURER - BENJAMIN MOORE NUMBER - 7604 COLOR - SMOKY BLUE TYPE - INTERIOR ACRYLIC PAINT FINISH - EGGSHELL FINISH LOCATION - ACCENT WALLS

## 4 ASSEMBLIES - WALL TILE

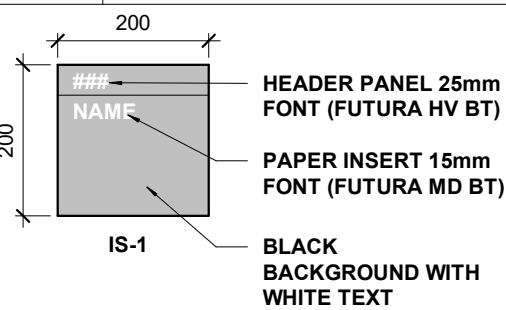
WT-1		
	WALL TILE WARM WHITE MATTE 100 x 400 - STACK BOND GROUT SHALL BE: MAPEI #38 AVALANCHE	

WT-2		
	WALL TILE OLYMPIA TILE - QUEBEC - DARK GREY UNGLAZED MOSAIC 50 x 50 (SHOWERS) GROUT SHALL BE: MAPEI #107 IRON	

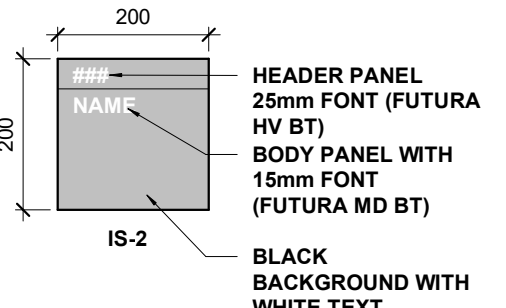
WT-3		
	WALL TILE OLYMPIA TILE - DARK GREY MATTE - 100 x 400 - REGULAR HERRINGBONE GROUT SHALL BE: MAPEI #38 AVALANCHE	

WT-4		
	WALL TILE OLYMPIA TILE - BLACK MATTE - 100 x 400 - STACK BOND (KITCHEN BACKSPLASH) GROUT SHALL BE: MAPEI #38 AVALANCHE	

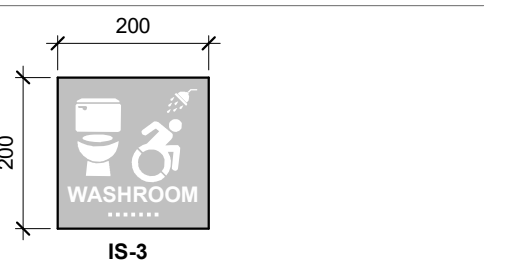
## 10-0050 - IS-INTERIOR SIGNS



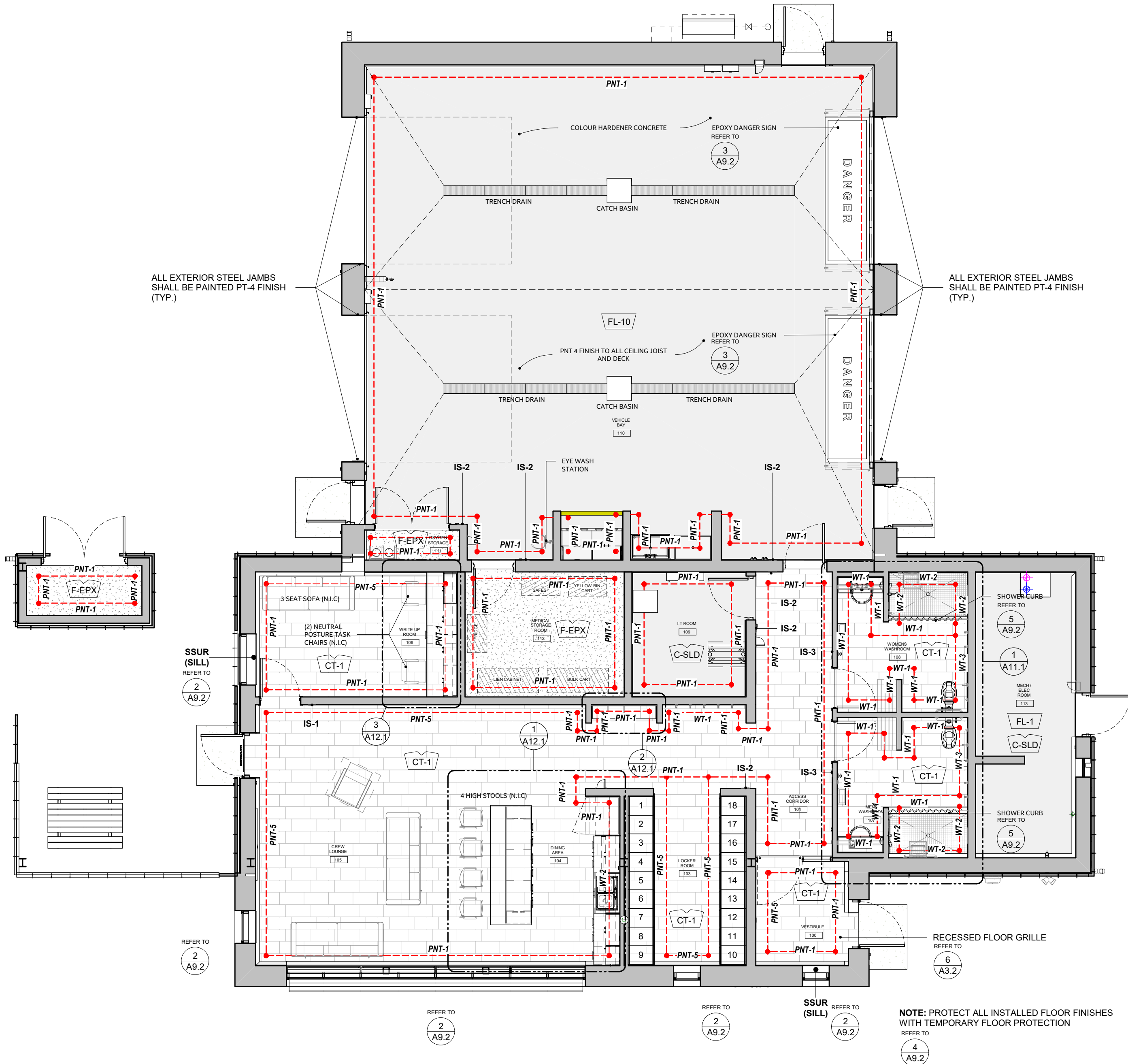
BLACK BACKGROUND WITH WHITE TEXT



BLACK BACKGROUND WITH WHITE TEXT



BLACK BACKGROUND WITH WHITE TEXT

1 GROUND FLOOR PLAN - FLOOR FINISH AND MILLWORK PLAN  
1 : 75

## WALL FINISHES

#	ROOM NAME	FINISH
101	ACCESS CORRIDOR	PNT-1
102	ACCESS CORRIDOR	PNT-1
102	ACCESS CORRIDOR	PNT-5
102	ACCESS CORRIDOR	WT-1
103	LOCKER ROOM	PNT-5
104	DINING AREA	PNT-1
104	DINING AREA	WT-2
105	CREW LOUNGE	PNT-5
106	WRITE UP ROOM	PNT-1
106	WRITE UP ROOM	PNT-5
107	MENS WASHROOM	WT-1

## WALL FINISHES

#	ROOM NAME	FINISH
108	WOMENS WASHROOM	WT-1
108	WOMENS WASHROOM	WT-2
108	WOMENS WASHROOM	WT-3
109	LT ROOM	PNT-1
110	VEHICLE BAY	PNT-1
111	OXYGEN STORAGE	PNT-1
112	MEDICAL STORAGE ROOM	PNT-1
113	MECH / ELEC ROOM	PNT-1
113	MECH / ELEC ROOM	PNT-5
114	GARBAGE ENCLOSURE	PNT-1

## 2 / A9.1

## A700 GENERAL NOTES - FLOOR FINISHES

- ALL INTERIOR FINISHES SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE, LATEST REVISION, THE TERRAZZO, TILE & MARBLE ASSOCIATION OF CANADA (TTMAC) AND AUTHORITIES HAVING JURISDICTION
- REFER TO ROOM FINISH SCHEDULE FOR FLOOR AND BASE FINISHES
- ALL FLOOR FINISHES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND SPECIFICATION
- ALL FLOOR TILES LARGER THAN 150 x 150mm SHALL BE INSTALLED IN A 1/5 RUNNING BOND PATTERN (20% OVERLAP) TO REDUCE LIPPAGE AS DEFINED BY TTMAC.
- UNLESS OTHERWISE NOTED ALL FLOOR FINISHES TO BE INSTALLED PRIOR TO INSTALLATION OF MILLWORK
- NO SUBSTITUTIONS OF FLOOR FINISHES PERMITTED WITHOUT CONSULTANT WRITTEN APPROVAL
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL FLOOR FINISHES FOR THE DURATION OF THE WORK
- CONTRACTOR TO PROVIDE PROTECTION OF ALL FINISHED CONCRETE FLOORS USING PREMANUFACTURED CARDBOARD TEMPORARY FLOOR PROTECTION (OR APPROVED EQUIVALENT) FOR THE DURATION OF THE WORK
- CONTRACTOR TO PROVIDE PROTECTION OF ALL FINISHED TILED FLOORS USING PREMANUFACTURED CARDBOARD TEMPORARY FLOOR PROTECTION (OR APPROVED EQUIVALENT) FOR THE DURATION OF THE WORK
- CHANGES IN FLOOR FINISH AT DOOR OPENINGS SHALL OCCUR UNDERNEATH THE DOOR (IN THE CLOSED POSITION) UNLESS OTHERWISE NOTED, WHERE THERE IS AN OPENING WITH NO DOOR, CHANGES IN FLOOR FINISH SHALL OCCUR AT THE MIDPOINT OF THE OPENING.
- UNLESS NOTED OTHERWISE, TILE BASES SHALL BE 100MM HIGH MEASURED FROM THE ADJACENT FINISHED FLOOR.
- WHERE A CHANGE OF FLOORING MATERIAL THICKNESS OCCURS, FEATHER FLOOR AS REQUIRED

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

## ISSUE OR REVISION

NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

PROJECT:

CLIENT:

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

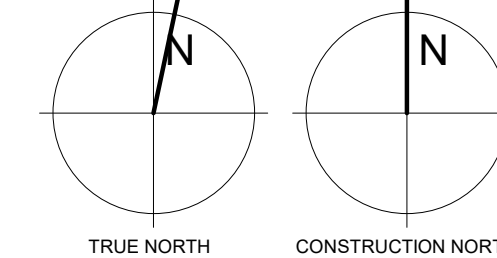
ARCHITECT  
**THOMASBROWNARCHITECTS**  
167 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE:

FLOOR FINISH AND  
FURNITURE PLAN

ORIENTATION

DATE  
2020-11-18

PROJECT NO.

1622

DRAWING NO.

A9.1

REVISION

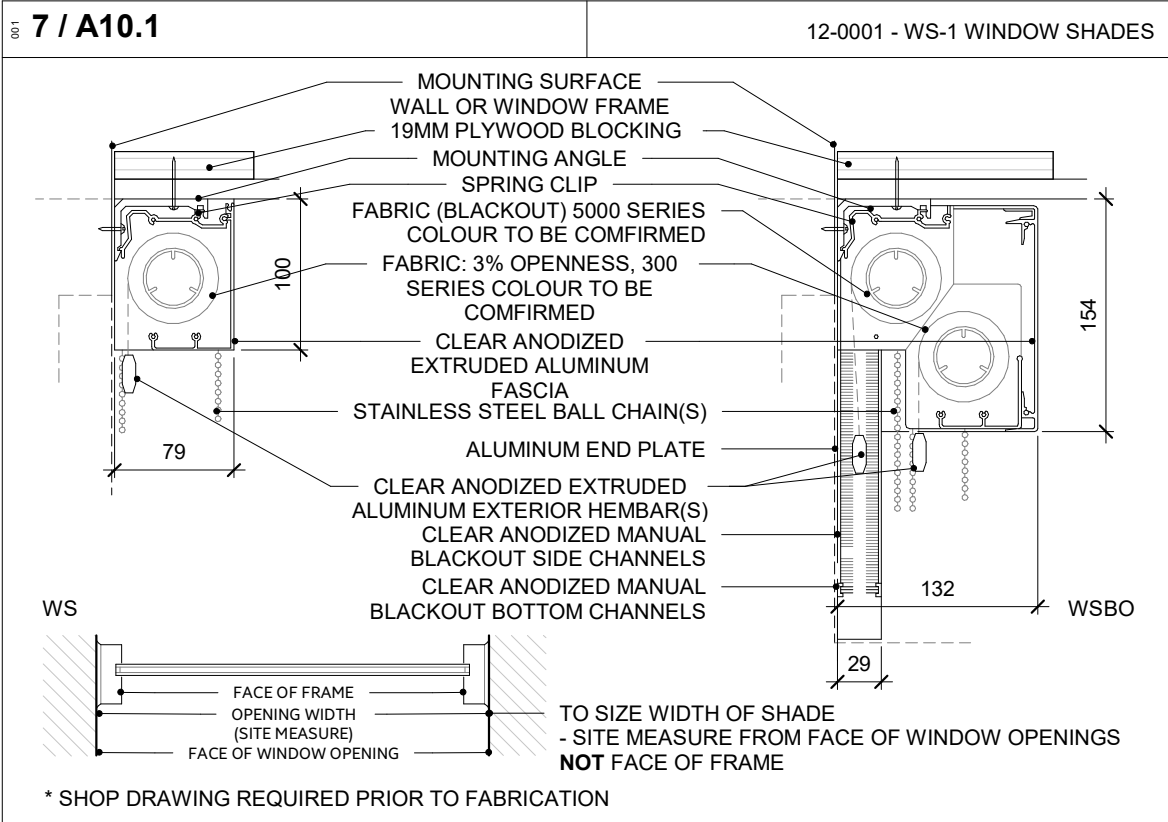
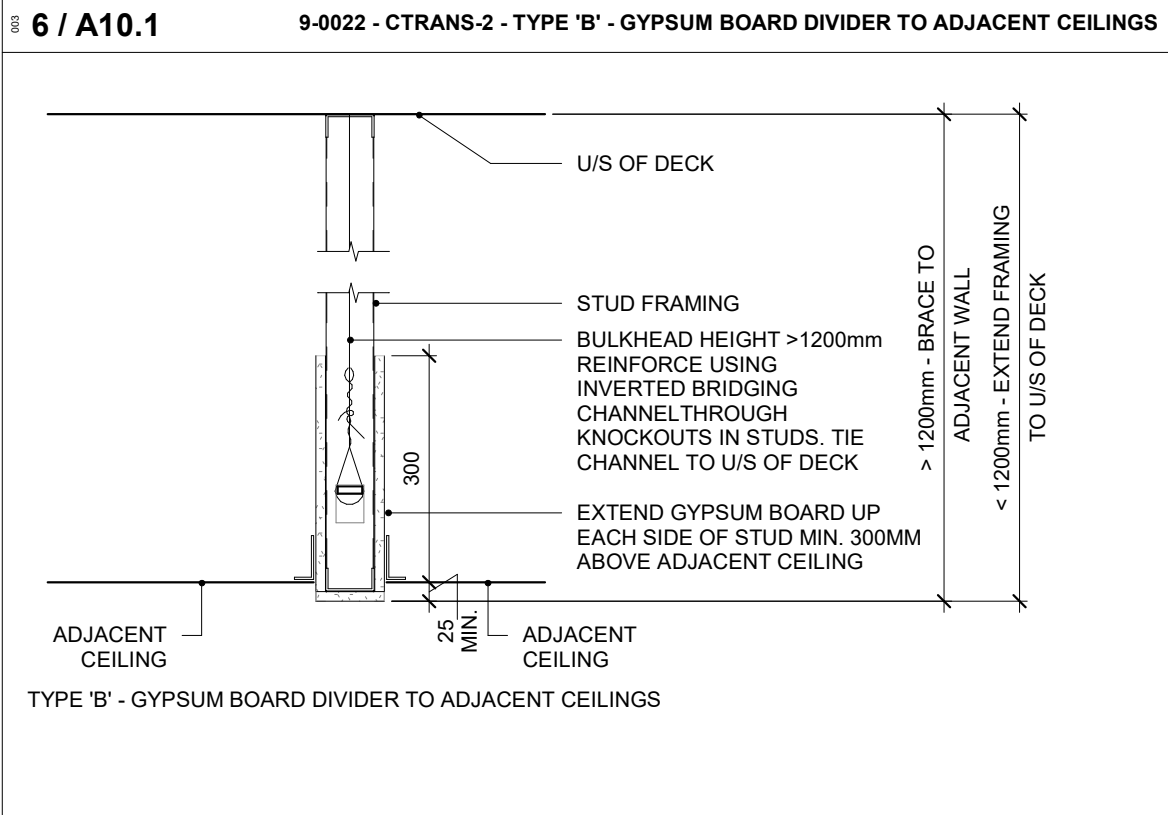
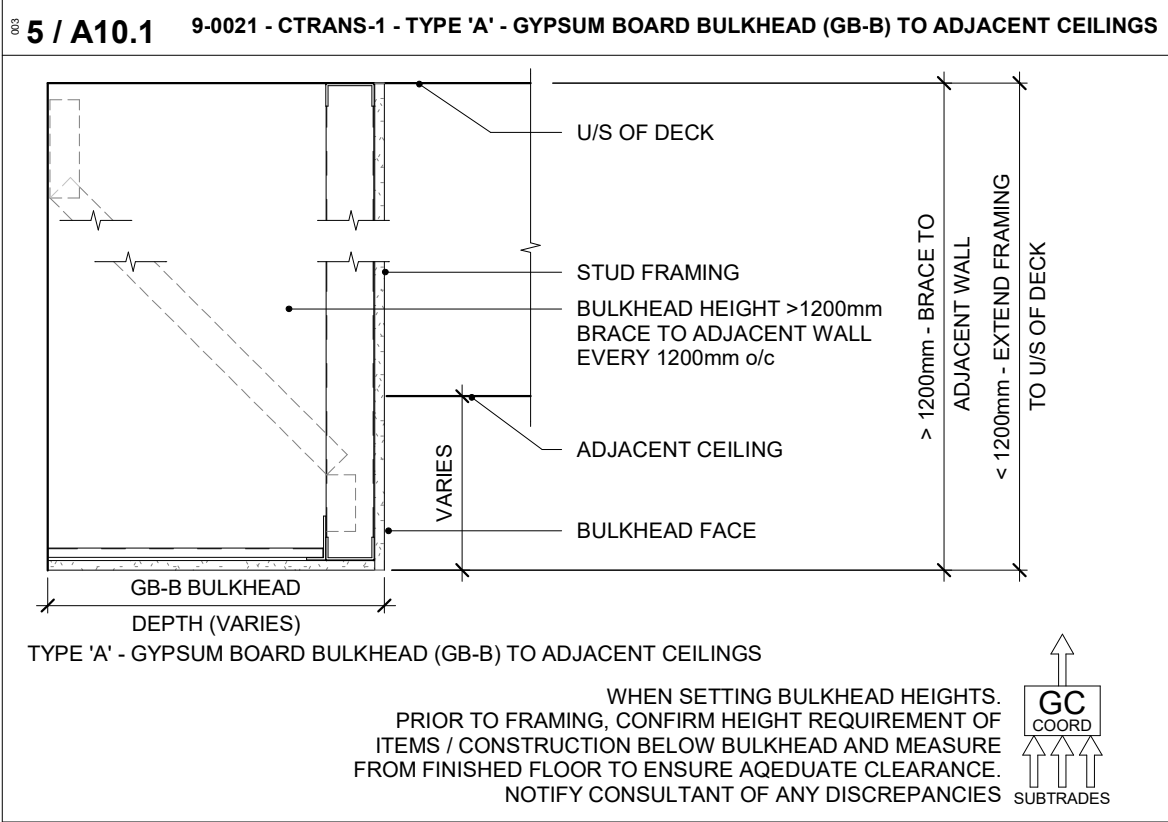
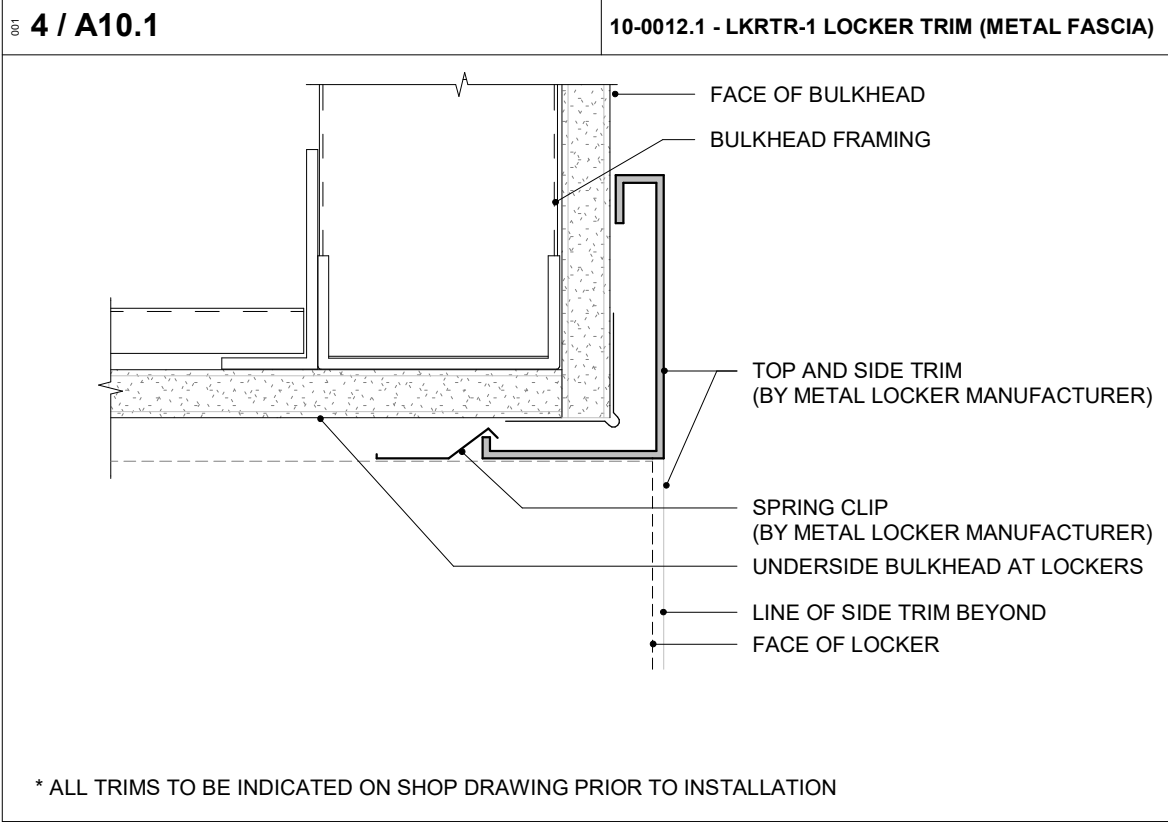
19

2025-11-02 9:56:26 PM

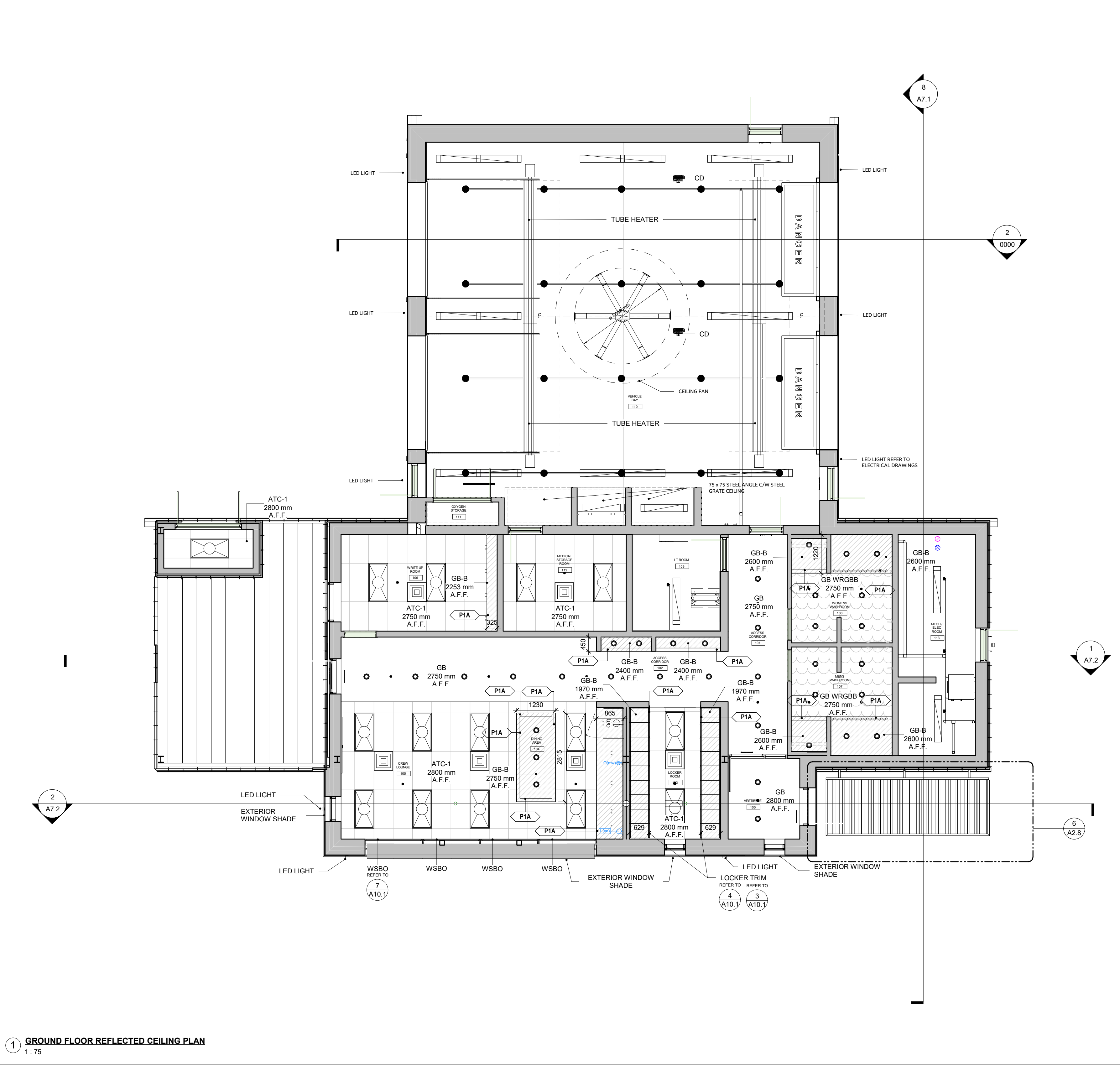
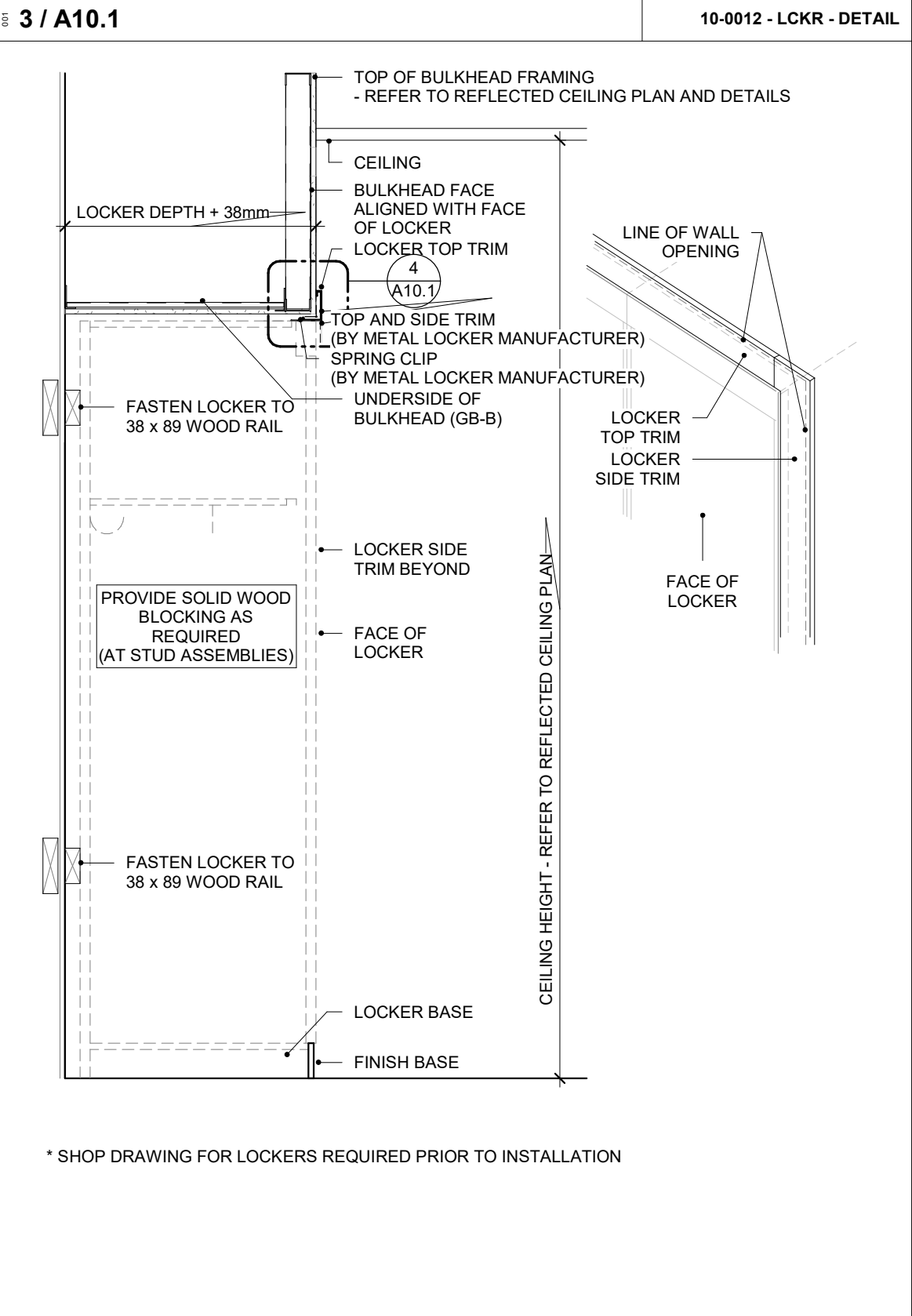








- 2 / A10.1** A700 GENERAL NOTES - REFLECTED CEILING PLAN
- REFLECTED CEILING PLANS MAY NOT SHOW ALL MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT. ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS
  - PRIOR TO COMMENCING WORK, CONDUCT INTERFERENCE STUDY. THE OBJECTIVE OF THE STUDY IS TO IDENTIFY AND MITIGATE ISSUES WITH THE INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS, FIXTURES AND EQUIPMENT. AS PART OF THE STUDY, INCLUDE THE FOLLOWING:**
    - MARK LOCATIONS AND ROUTES ON SITE OF ALL EQUIPMENT, PIPING, VENTS, DUCTS, CONDENSATES ETC. CONTRACTOR TO ESTABLISH MINIMUM CLEARANCES AND REPORT ANY INTERFERENCES WITH LIGHT FIXTURES, CONDUIT OR WIRE RUNS, STRUCTURE ETC.
    - MARK LOCATIONS ON SITE OF ALL LIGHTING. CONTRACTOR TO ESTABLISH MINIMUM CLEARANCES AND REPORT ANY INTERFERENCES WITH DUCTS, PIPES, STRUCTURE ETC.
    - LOCATE ALL FIXTURES IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.
    - IDENTIFY ALL SERVICES INSTALLED WITHIN OR ABOVE CEILING SYSTEMS. COORDINATE ALL PENETRATIONS AND ACCESS PANELS WITH THE CEILING SUPPORT SYSTEMS.
    - REPORT ANY DISCREPANCIES OR INTERFERENCES TO CONSULTANT IMMEDIATELY. OBTAIN INSTRUCTION FROM CONSULTANT BEFORE COMMENCING INSTALLATION.
    - PROVIDE CONFIRMATION THAT INTERFERENCE STUDY HAS BEEN CONDUCTED AND THAT INTERFERENCES HAVE BEEN IDENTIFIED AND MITIGATED.
  - REFER TO ROOM FINISH SCHEDULE FOR CEILING FINISHES.
  - WHERE INDICATED, DIMENSIONS ARE TAKEN FROM CENTER OF LIGHT FIXTURES
  - WHERE INDICATED, CEILINGS NOTED AS EXPOSED SHALL BE PAINTED
  - FIRE SEPARATIONS ARE TO THE UNDERSIDE (U/S) OF THE DECK OR STRUCTURE COMPLETE WITH FIRESTOP SYSTEM MATERIAL AND SMOKE SEAL AS REQUIRED.
  - REFER TO TOP OF WALL DETAILS FOR TERMINATION OF WALLS AT FLOORS AND ROOFS
  - WHERE MECHANICAL AND ELECTRICAL FIXTURES PENETRATE A PARTITION, PATCH AND PROVIDE AN AIR-TIGHT SEAL AROUND PENETRATION. AT FIRE SEPARATIONS USE FIRESTOP SYSTEM MATERIAL AT PENETRATIONS TO MATCH THE FIRE RATING OF THE PARTITION, WALL, OR FLOOR ASSEMBLY.
  - LOCATE SPRINKLERS, DETECTORS, SPEAKERS, ETC. ON CENTRE LINE OR MID-POINT OF LAY-IN CEILING PANELS UNLESS OTHERWISE NOTED.
  - FOR EQUIPMENT THAT REQUIRES ACCESS THROUGH CEILINGS, LOCATE ABOVE ATC CEILINGS WHERE POSSIBLE. WHERE ACCESS IS REQUIRED THROUGH GYPSUM BOARD CEILINGS, CONTRACTOR TO PROVIDE ACCESS PANELS AS REQUIRED. CONSULTANT TO REVIEW LOCATIONS PRIOR TO PROCEEDING WITH INSTALLATION
  - ACCESS PANELS SHALL BE PREFABRICATED AND SIZED ACCORDING TO ACCESS REQUIREMENTS, FINISH FLUSH WITH ADJACENT CEILING AND TO MATCH ADJACENT CEILING FINISH.
  - UNLESS OTHERWISE NOTED, LOCATE LIGHT FIXTURES ON CENTRE OF ACOUSTIC CEILING TILES
  - REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR FIRE EXIT SIGNS, EMERGENCY LIGHTING AND OTHER LIFE SAFETY DEVICES (IE HEAT DETECTORS, SMOKE DETECTORS ETC).
  - WHERE REQUIRED, PATCH, PAINT OR REPLACE ANY DAMAGED T-BAR AND REPLACE ANY DAMAGED OR SOILED CEILING TILES NOTED PRIOR TO OCCUPANCY
- LEGEND**
- |          |                                      |
|----------|--------------------------------------|
| GB       | GYPSUM BOARD                         |
| GB-B     | GYPSUM BOARD - BULKHEAD              |
| GB-WRGBB | WATER RESISTANT GYPSUM BACKING BOARD |
| ATC      | ACOUSTICAL TILE CEILING SYSTEM       |
| EXP      | EXPOSED CEILING                      |



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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

**YORK REGION PRS #33 RFTC**  
**397-21**  
2960 TESTON ROAD, VAUGHAN

PROJECT :

CLIENT

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

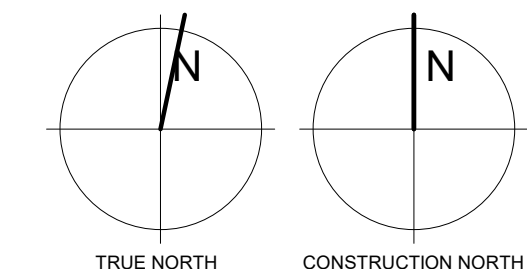
ARCHITECT  
**THOMASBROWNARCHITECTS**  
187 SPADINA AVENUE, SUITE 505 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

**REFLECTED CEILING PLAN**

ORIENTATION



DATE  
2020-11-18

PROJECT No.

**1622**

DRAWING No.

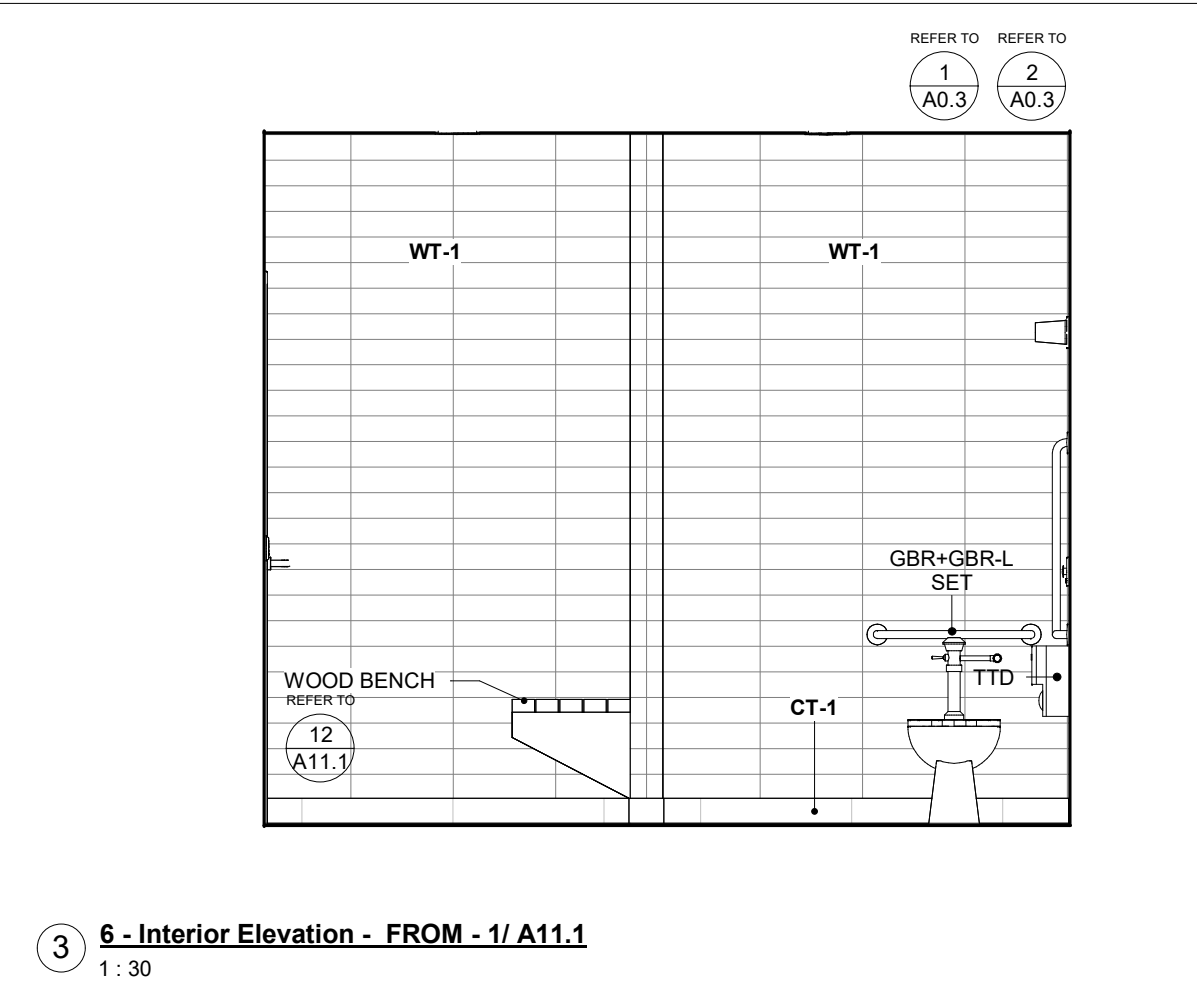
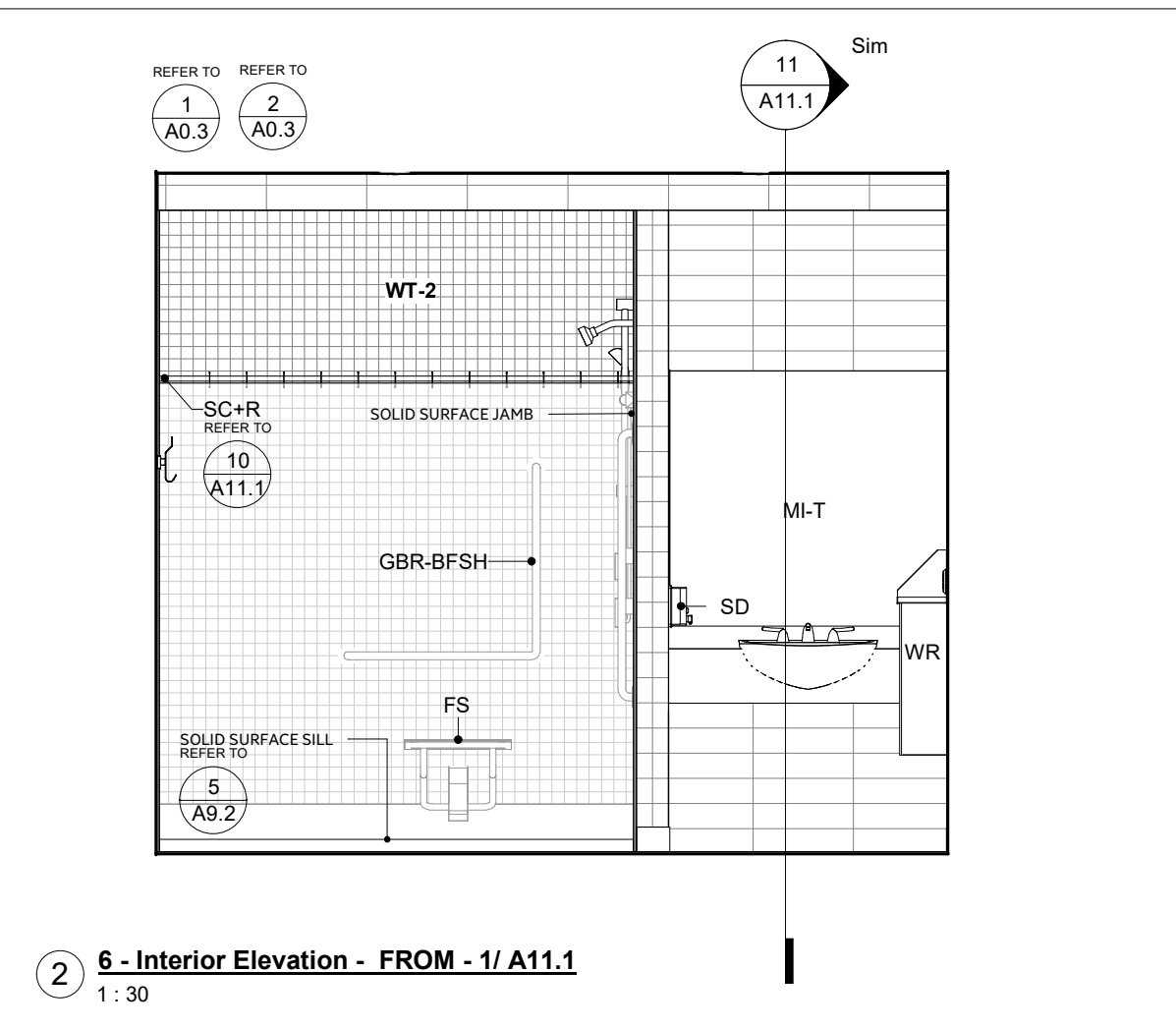
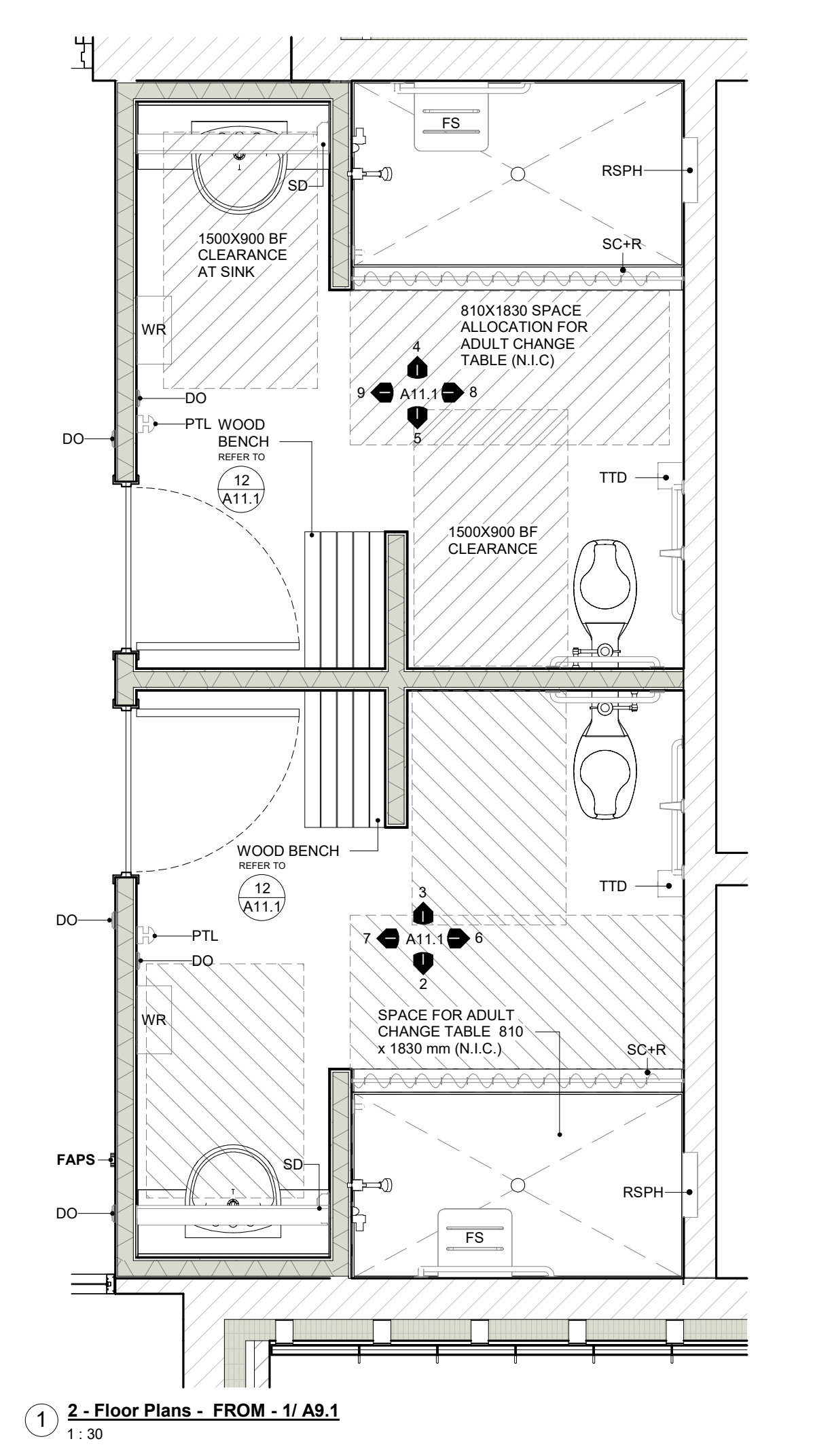
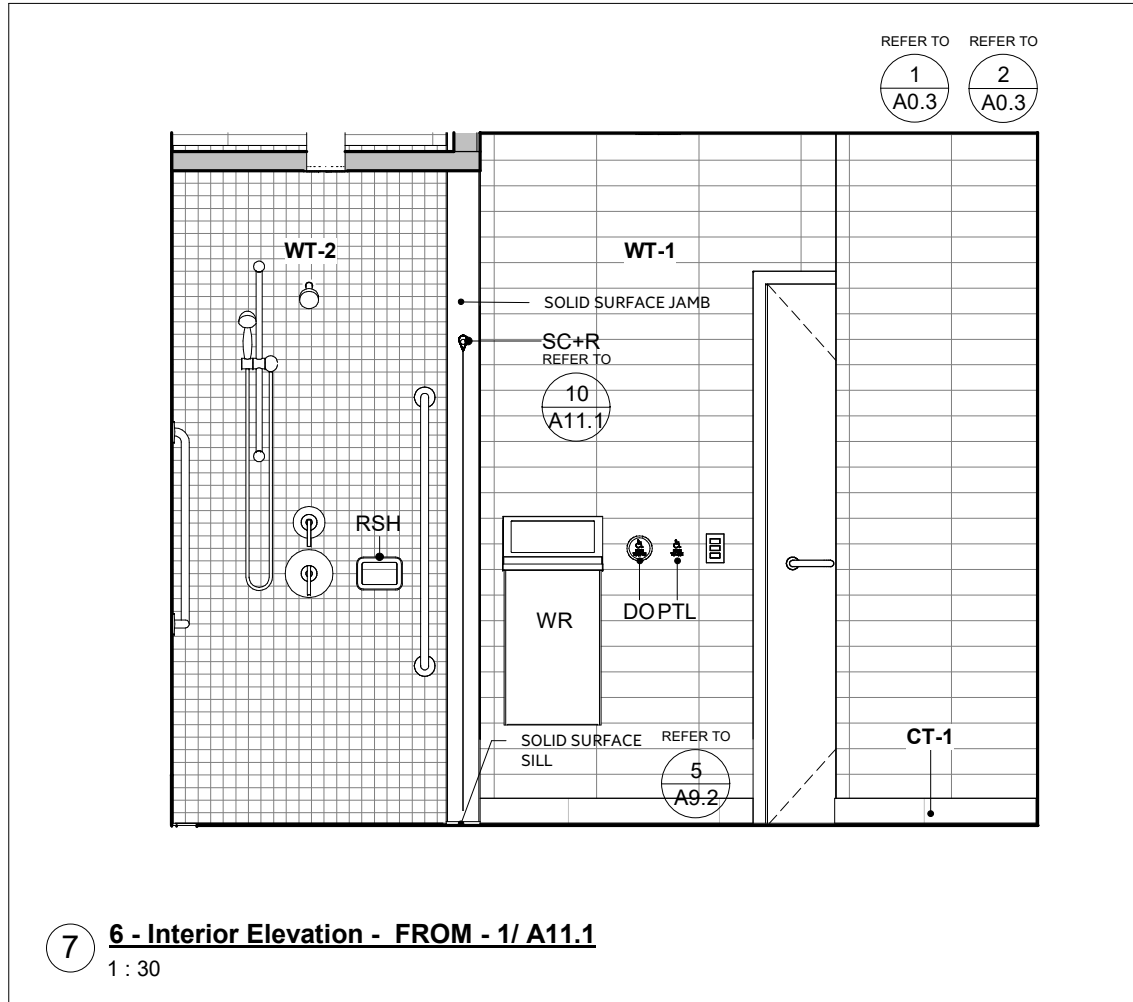
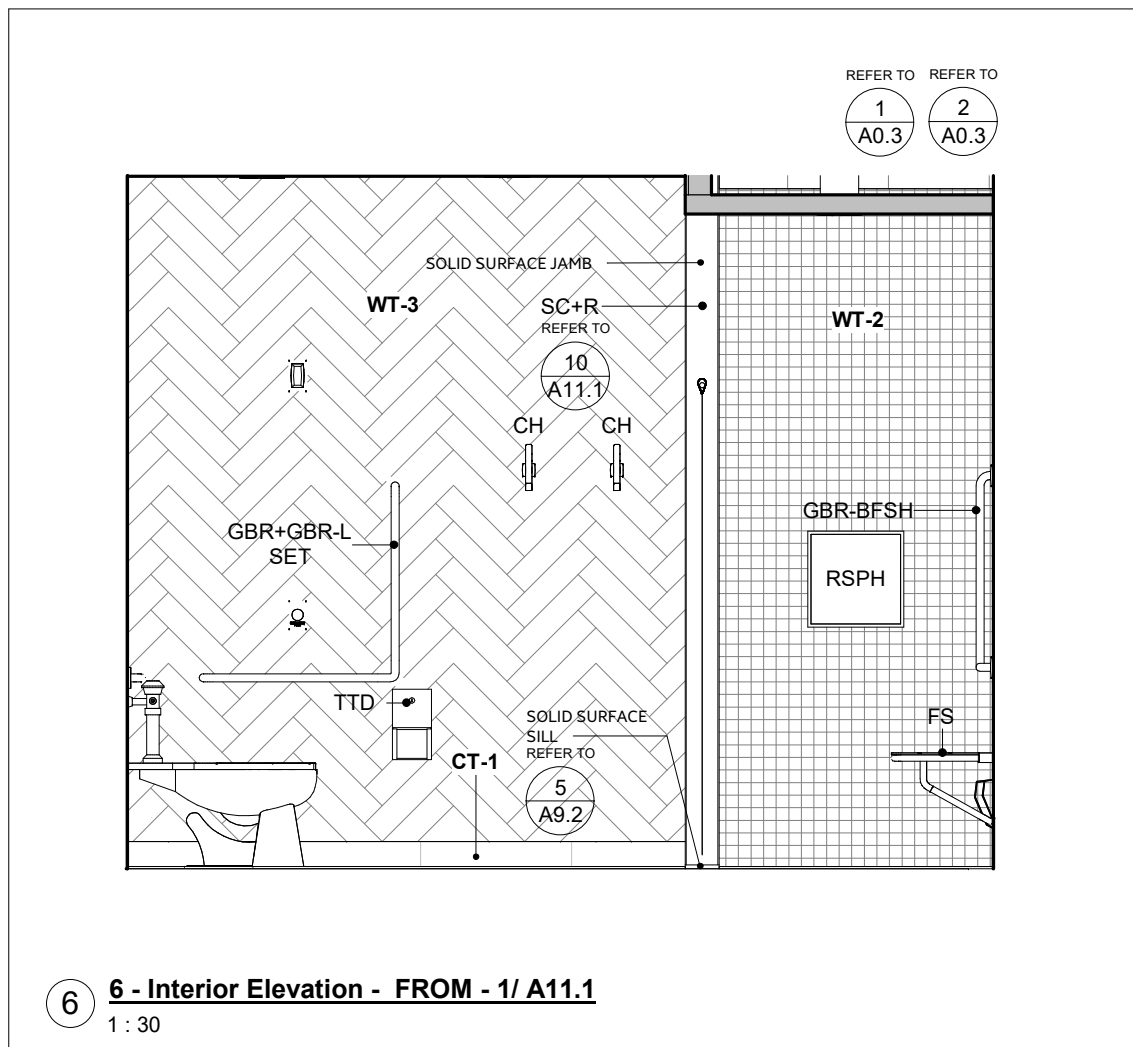
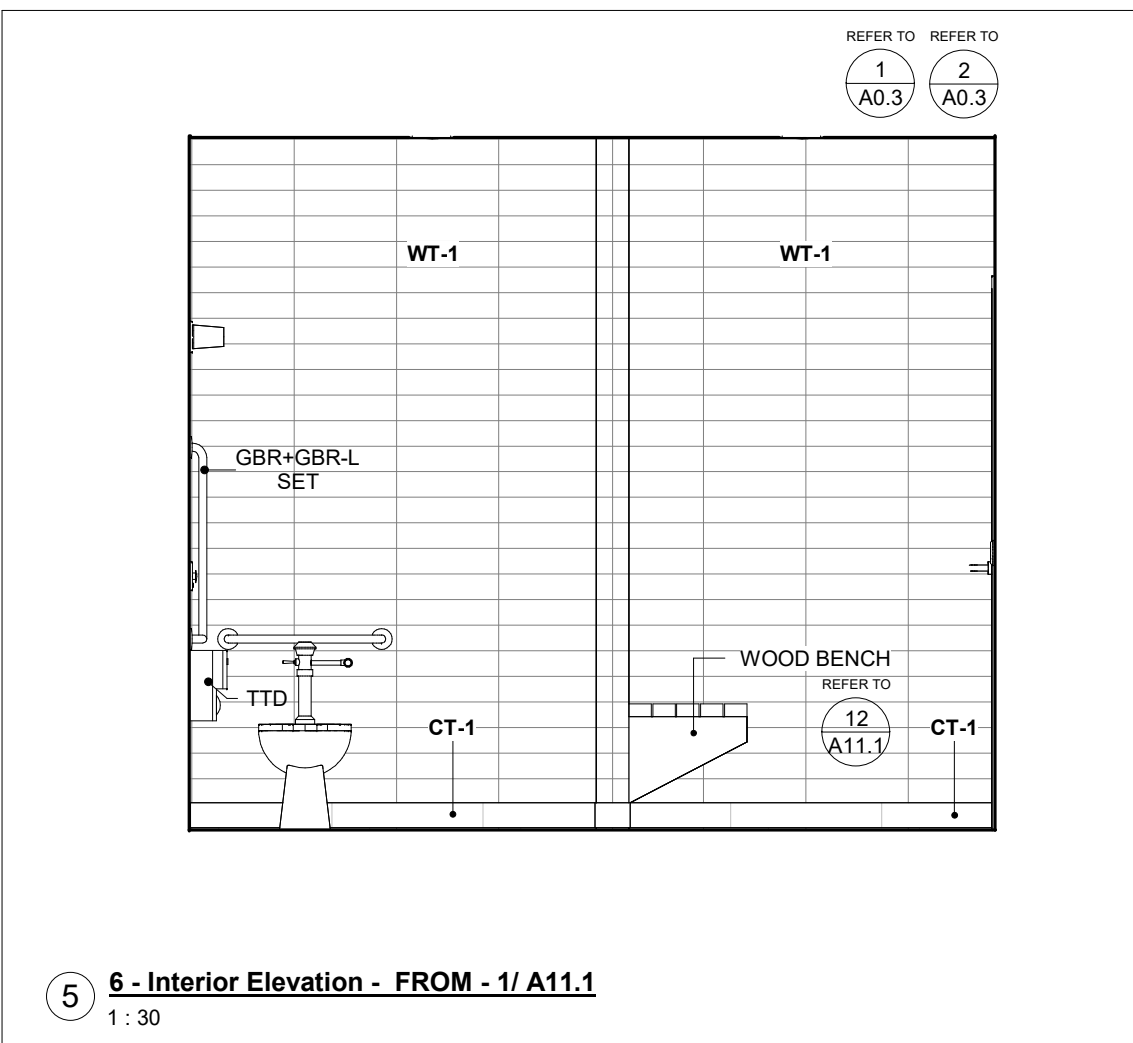
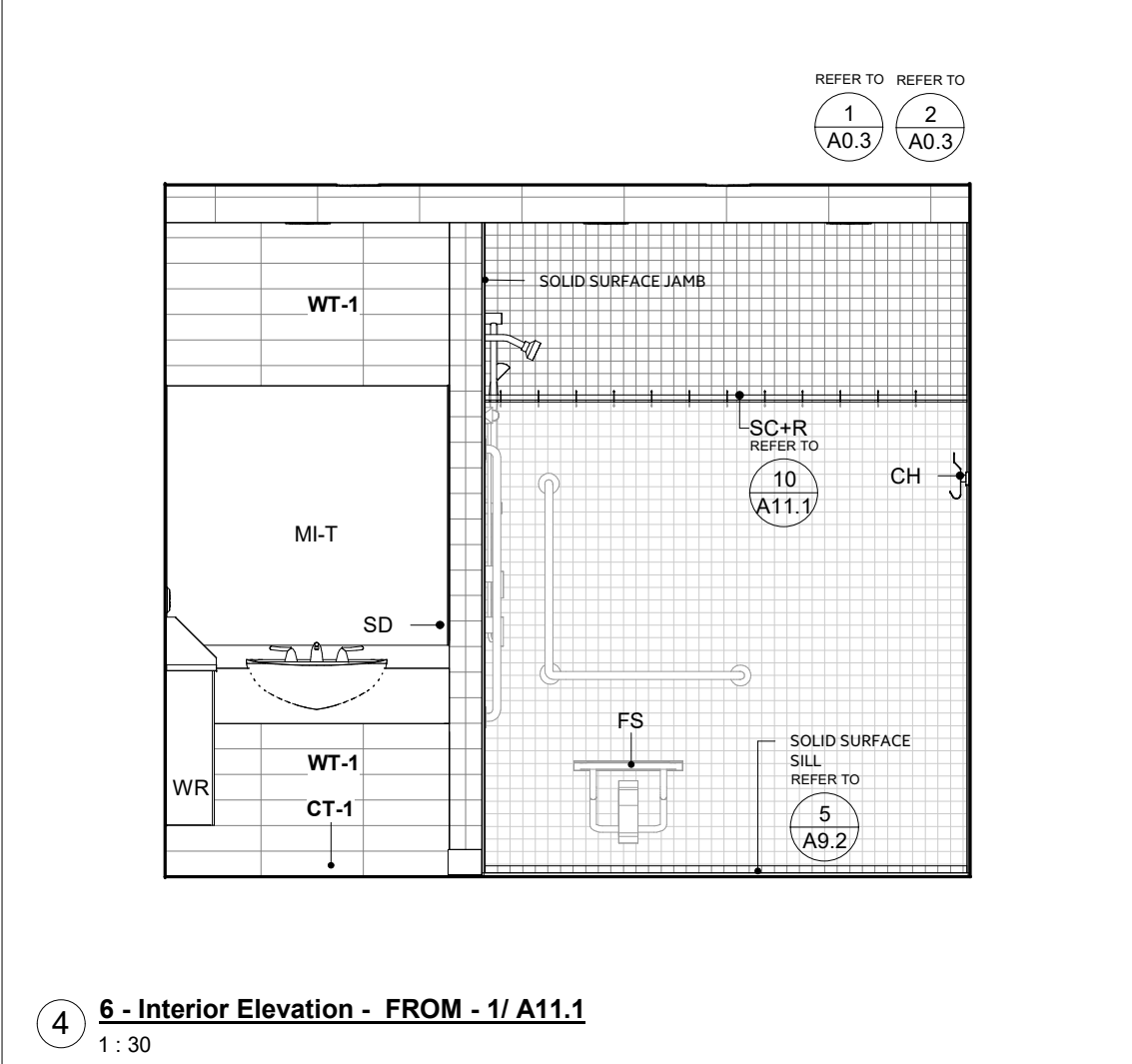
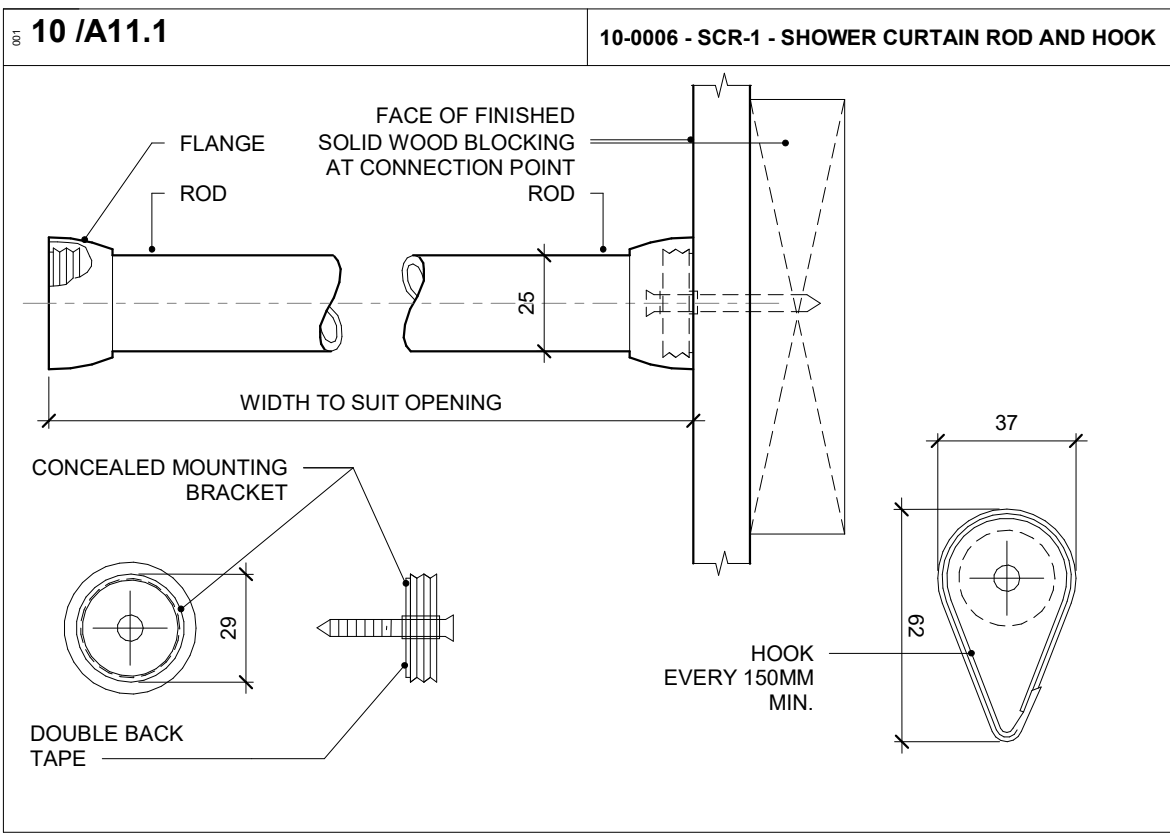
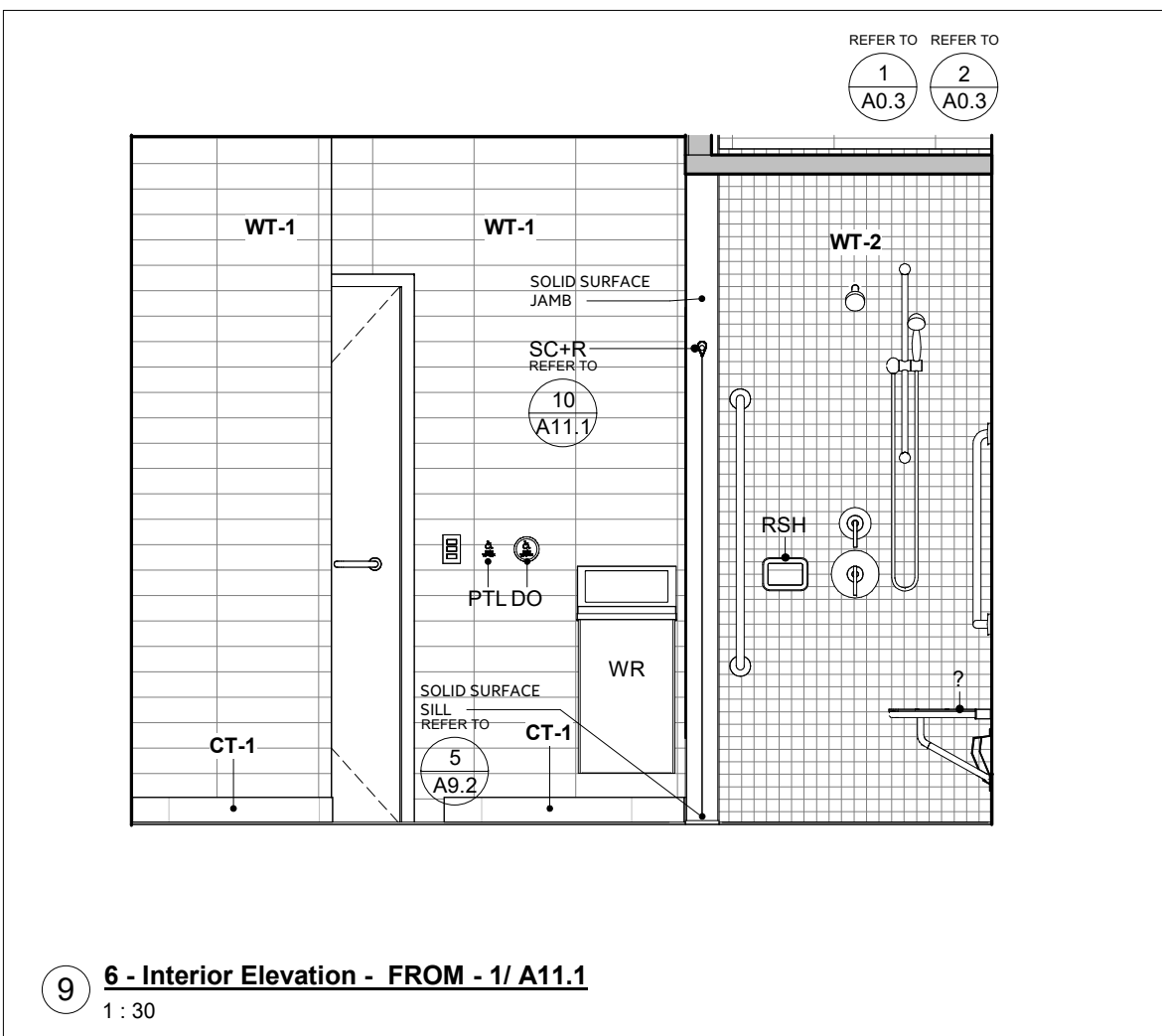
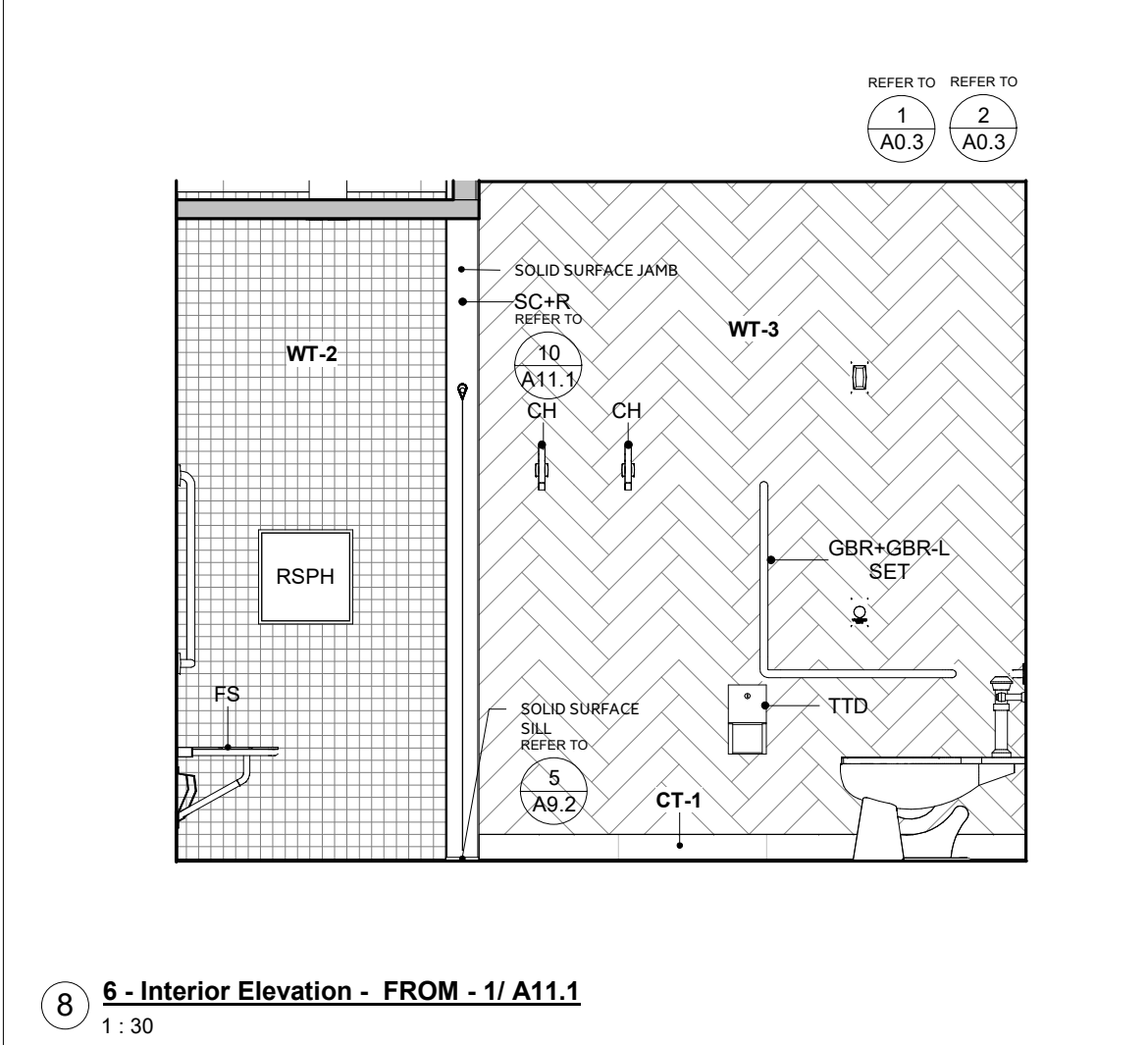
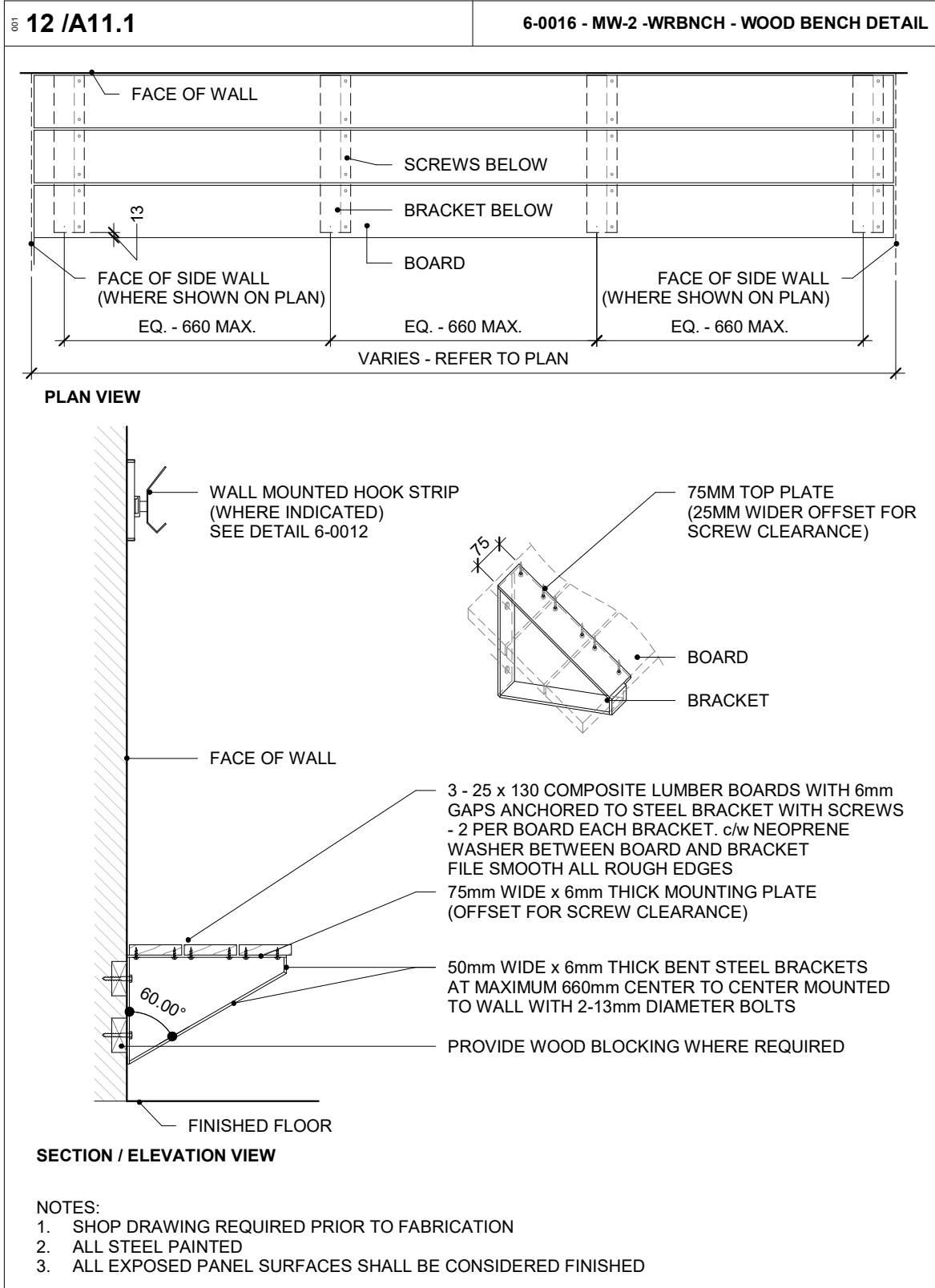
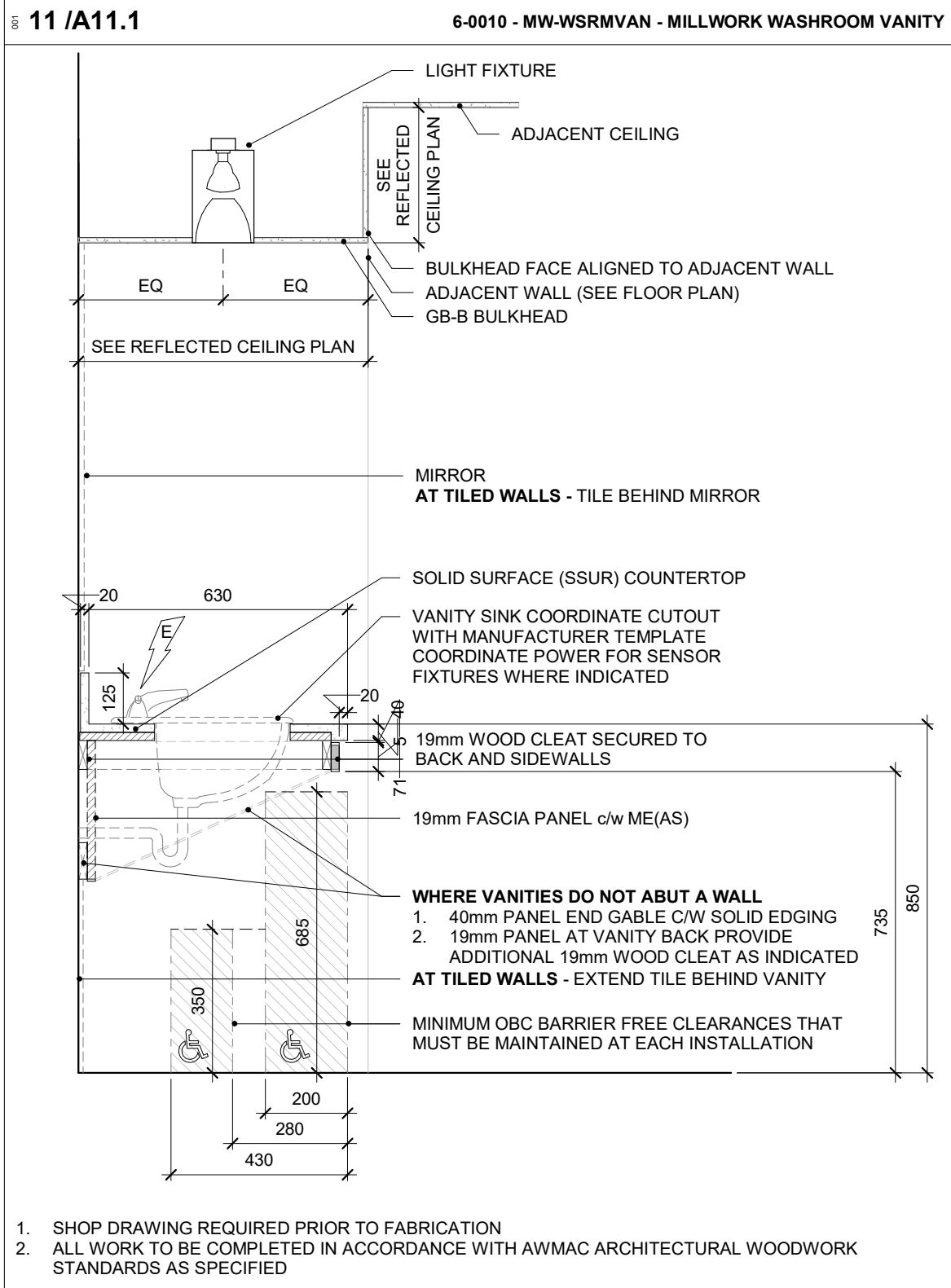
**A10.1**

REVISION

19

2025-11-02 9:56:30 PM





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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
3	60% DO RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

**YORK REGION PRS #33 RFTC**  
**397-21**  
2960 TESTON ROAD, VAUGHAN

PROJECT:

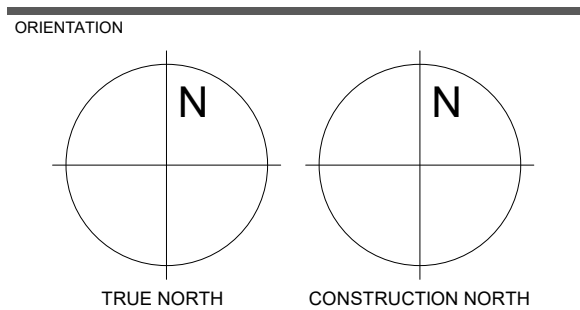
CLIENT

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

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

PROFESSIONAL SEAL

DWG TITLE  
**WASHROOM PLANS,  
ELEVATIONS &  
DETAILS**



DATE	2020-11-18
PROJECT No.	1622
DRAWING No.	A11.1
REVISION	19

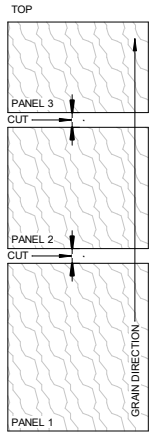
2025-11-02 9:56:34 PM



MILLWORK PANEL SCHEDULE			NOTATION ON DRAWINGS
MP00	- MELAMINE PANEL - WHITE	ME - 3MM MELAMINE TO MATCH	CF: (MATERIAL)
MP1	- BIRCH PLYWOOD	ME - 6MM SOLID WOOD TO MATCH	CB: (MATERIAL)
MP10	- SESAME - UNIBOARD	ME - BY MANUFACTURER	TK: c/w VA: (MATERIAL)
MP11	- RIVA - UNIBOARD	ME - BY MANUFACTURER	CP: (HANDLE)
MP12	- STAINLESS - UNIBOARD	ME - BY MANUFACTURER	
MP13	- SKYE - UNIBOARD	ME - BY MANUFACTURER	
MP14	- COCOA BEAN - UNIBOARD	ME - BY MANUFACTURER	
MP15	- INTRIGUE - UNIBOARD	ME - BY MANUFACTURER	
MP16	- INFINTO - CLEAF	ME - BY MANUFACTURER	
MP17	- SENZA TEMPO - CLEAF	ME - BY MANUFACTURER	
MP18	- EPOCA - CLEAF	ME - BY MANUFACTURER	

MILLWORK PANEL NOTES

- PANELS THAT HAVE A VISIBLE GRAIN (I.E. WOODS) SHALL BE ORIENTED VERTICALLY UNLESS OTHERWISE NOTED
- WHERE MULTIPLE PANELS ARE STACKED VERTICALLY CUT STOCK SO AS TO MAINTAIN CONTINUITY OF GRAIN FROM PANEL TO PANEL (SEE DIAGRAM TO LEFT)



DOOR AND DRAWER HANDLE SCHEDULE

- 128 - CONTEMPORARY STEEL PULL - 305 - 128MM CENTER TO CENTER  
160 - CONTEMPORARY STEEL PULL - 305 - 160MM CENTER TO CENTER  
192 - CONTEMPORARY STEEL PULL - 305 - 192MM CENTER TO CENTER  
288 - CONTEMPORARY STEEL PULL - 305 - 288MM CENTER TO CENTER  
333 - CONTEMPORARY STEEL PULL - 305 - 333MM CENTER TO CENTER  
486 - CONTEMPORARY STEEL PULL - 305 - 486MM CENTER TO CENTER  
562 - CONTEMPORARY STEEL PULL - 305 - 562MM CENTER TO CENTER  
638 - CONTEMPORARY STEEL PULL - 305 - 638MM CENTER TO CENTER

FINISHES

- CH - CHROME  
BN - BRUSHED NICKEL

NOTE: ALL HARDWARE SHALL BE RICHELIEU OR EQUIVALENT

SUPPLY AND INSTALL HARDWARE AS FOLLOWS:

- ALL HARDWARE SHALL BE IN ACCORDANCE WITH **CUSTOM GRADE** AS DEFINED BY AWMAC.
- CONCEALED SELF-CLOSING HINGES.
- STAINLESS STEEL ROD TYPE DOOR & DRAWER HANDLES AS SCHEDULED.
- ALL DRAWERS ON HEAVY DUTY TELESOPING CUSHIONED ROLLING METAL SLIDES.
- RECESSED METAL STANDARDS - ADJUSTABLE C/W REQUIRED NUMBER OF SHELF CLIPS.
- PROVIDE KEY LOCKS WHERE INDICATED. EACH LOCK SHALL BE UNIQUE.
- BOBRICK B-6827 S.S. HAT & COAT HOOKS FOR ALL HOOKS INDICATED.

\*NOTE: ALL MILLWORK HARDWARE SUPPLIED & INSTALLED UNDER MILLWORK CONTRACT.

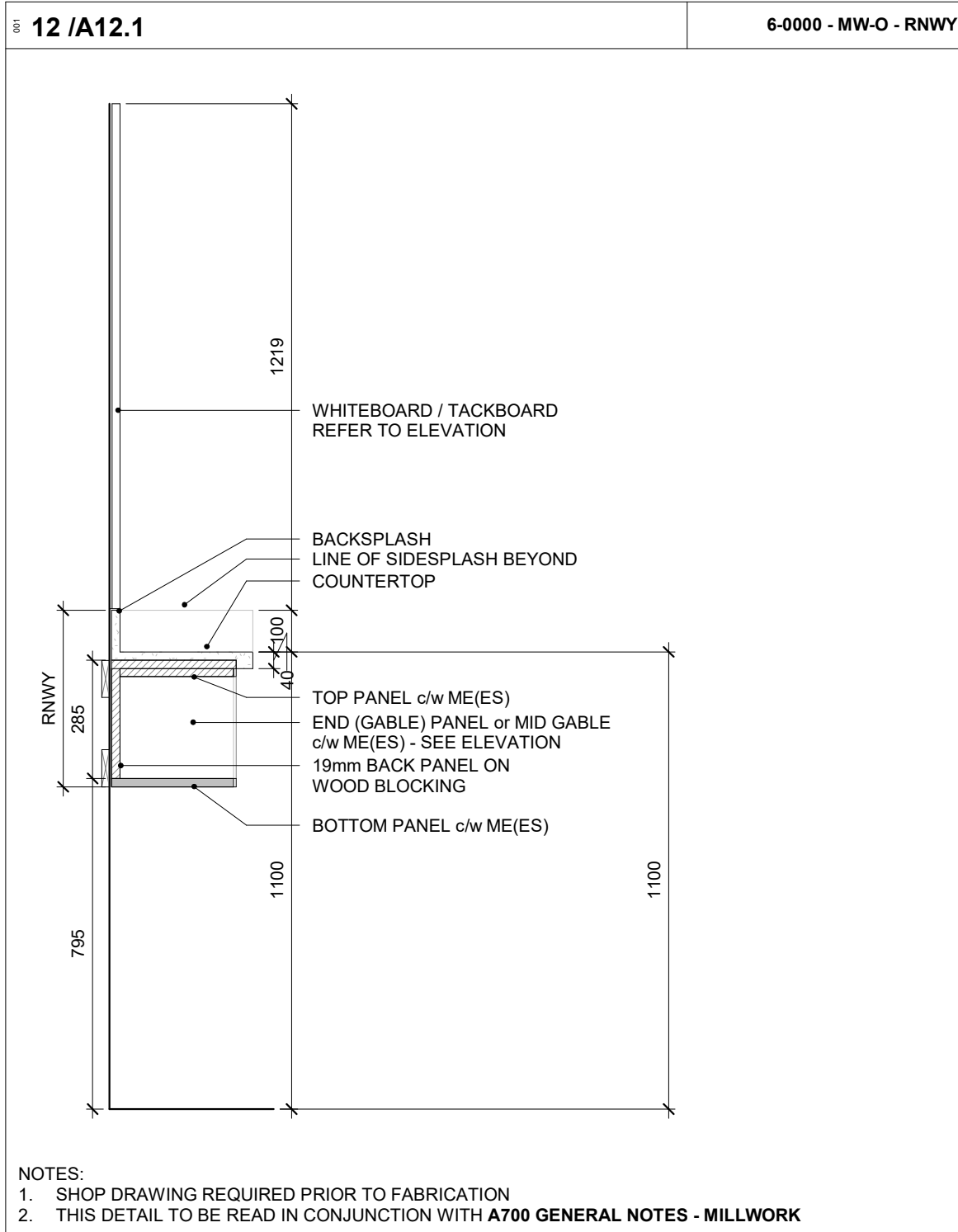
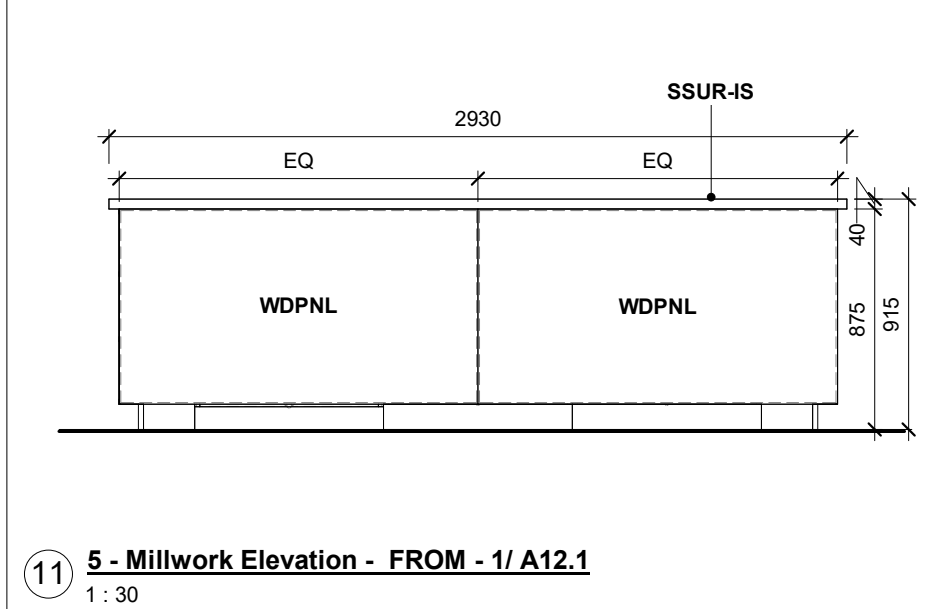
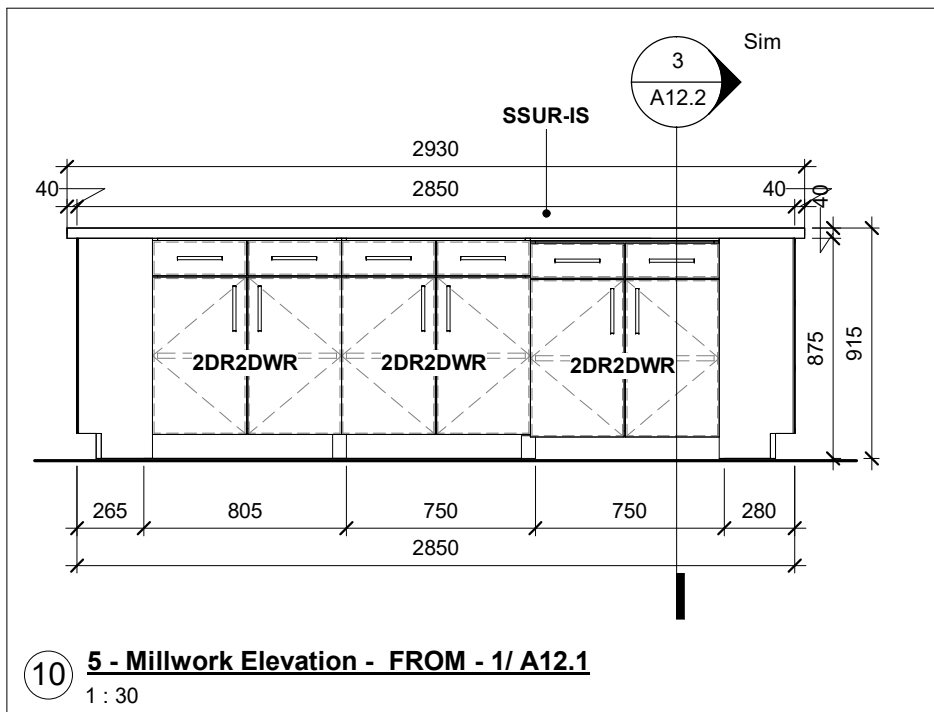
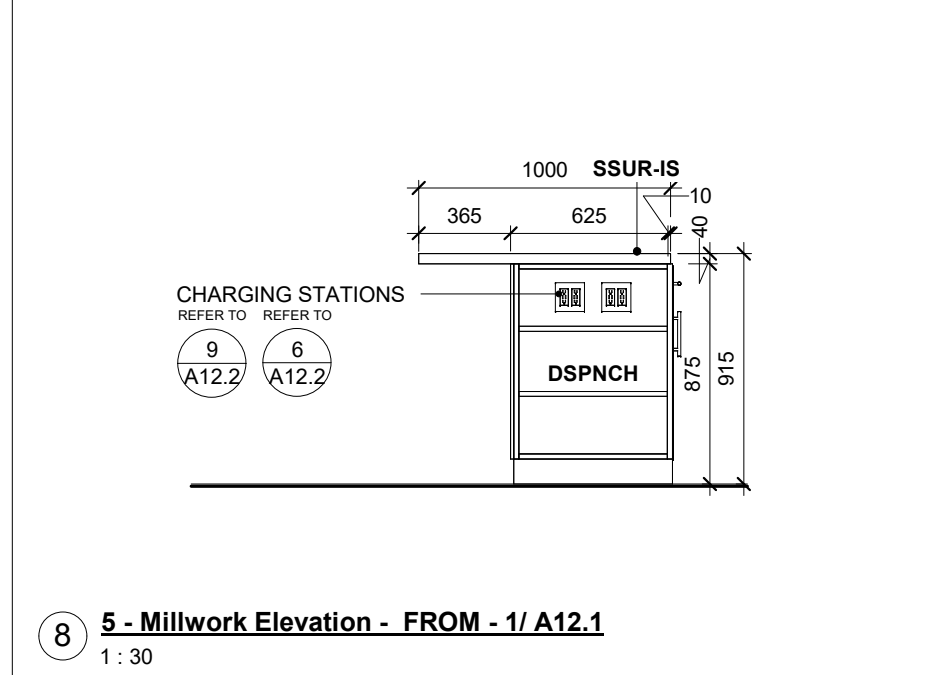
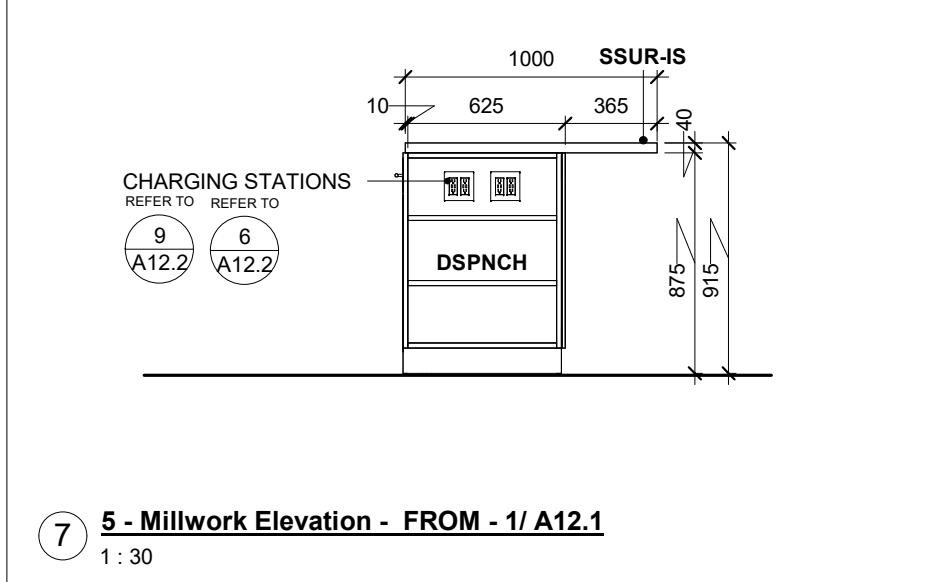
FOR DRAWERS DESIGNATED AS FILE DRAWERS:

CABINETS 450-600MM IN WIDTH - PROVIDE ONE (1) ADJUSTABLE HANGING FILE FRAME PER DRAWER  
CABINETS 750-1000MM IN WIDTH - PROVIDE TWO (2) LATERAL HANGING FILEBARS PER DRAWER

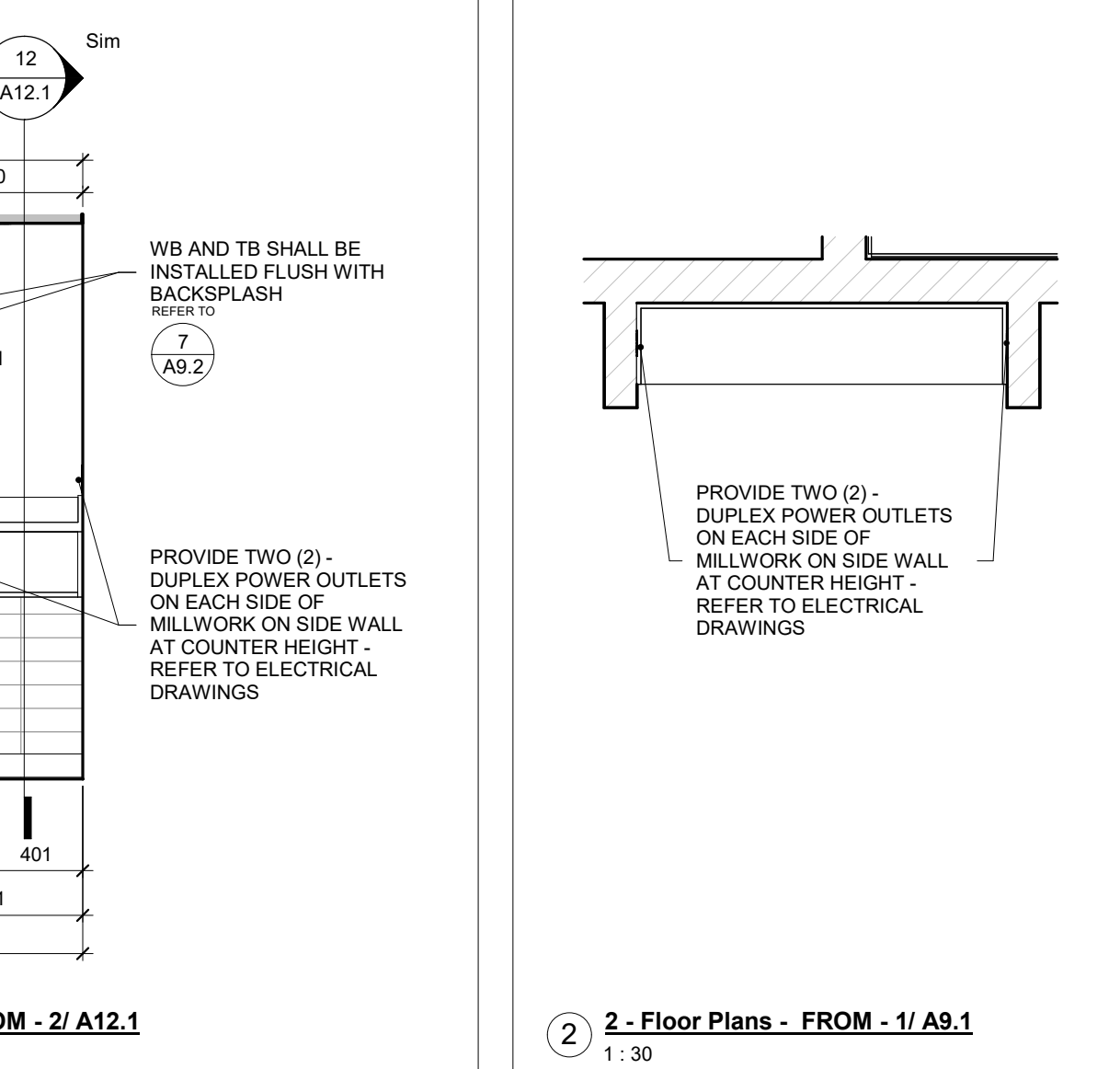
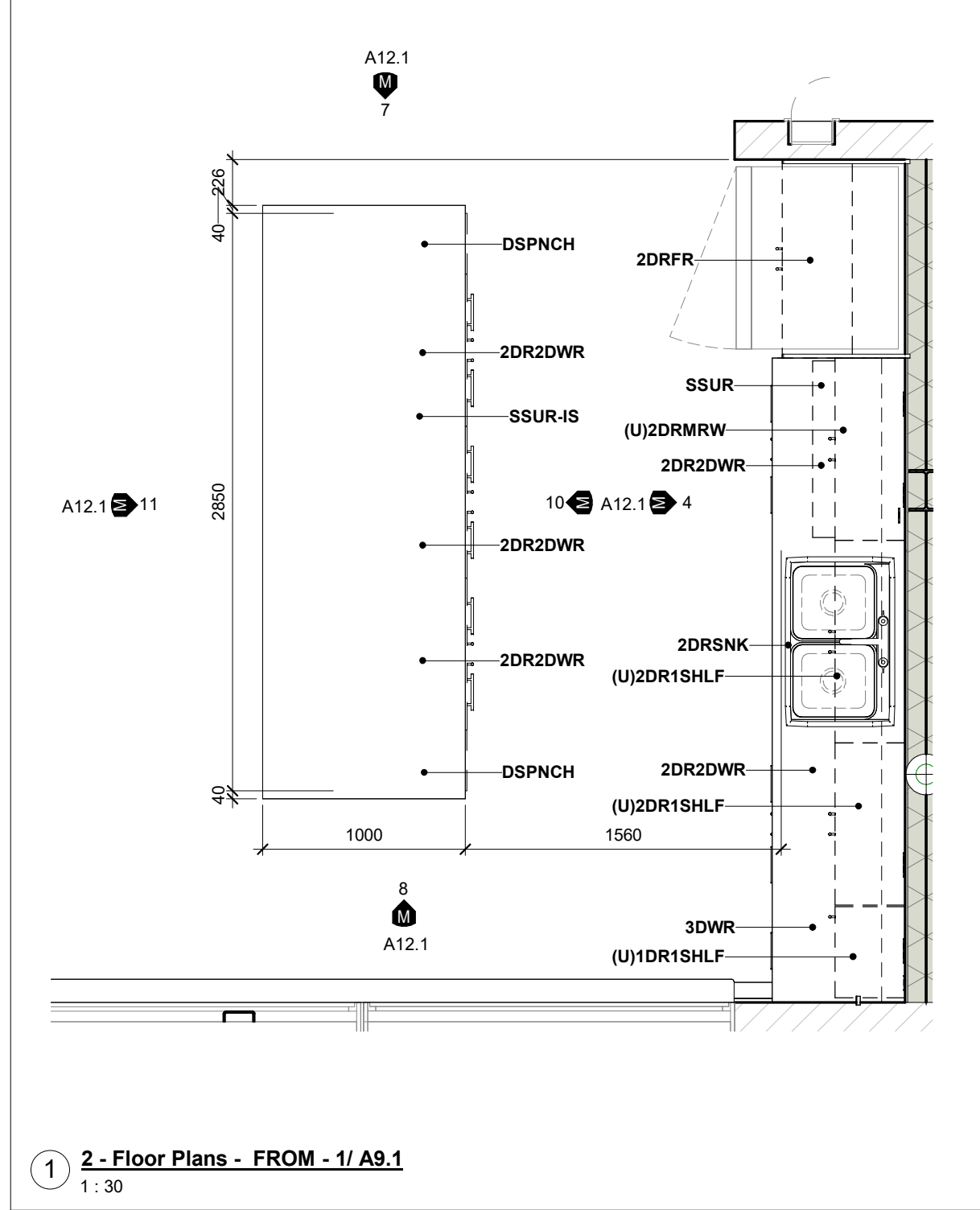
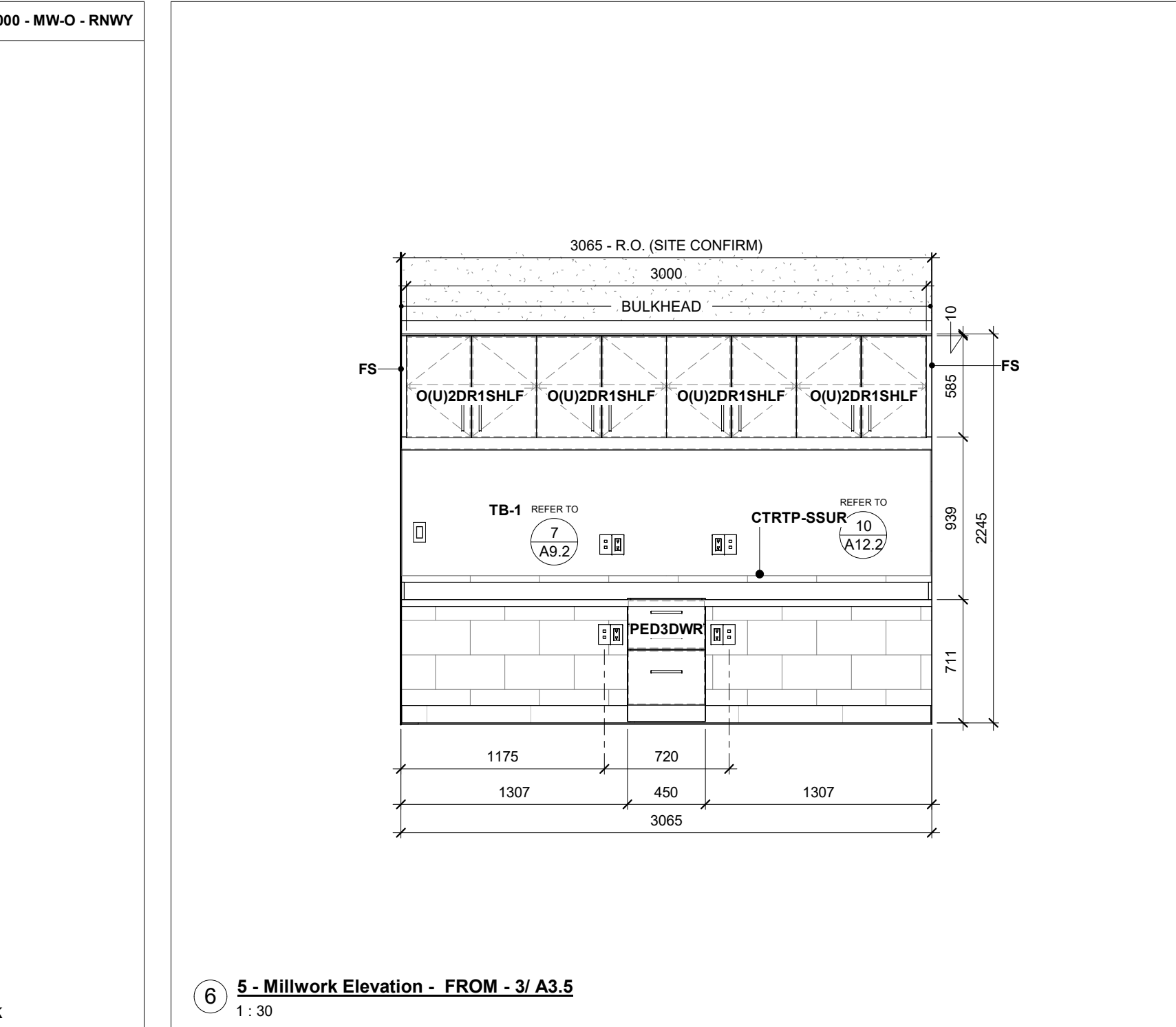
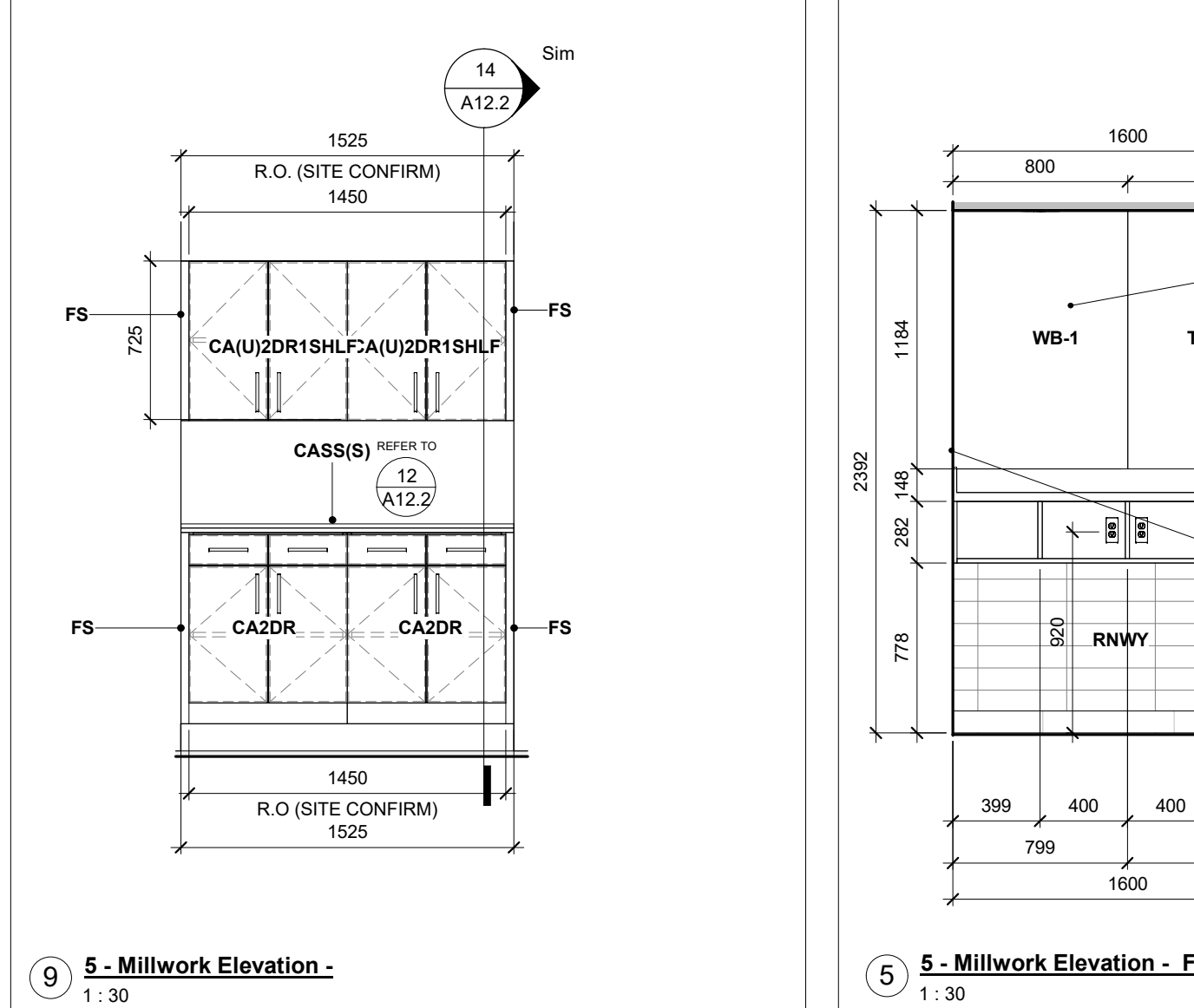
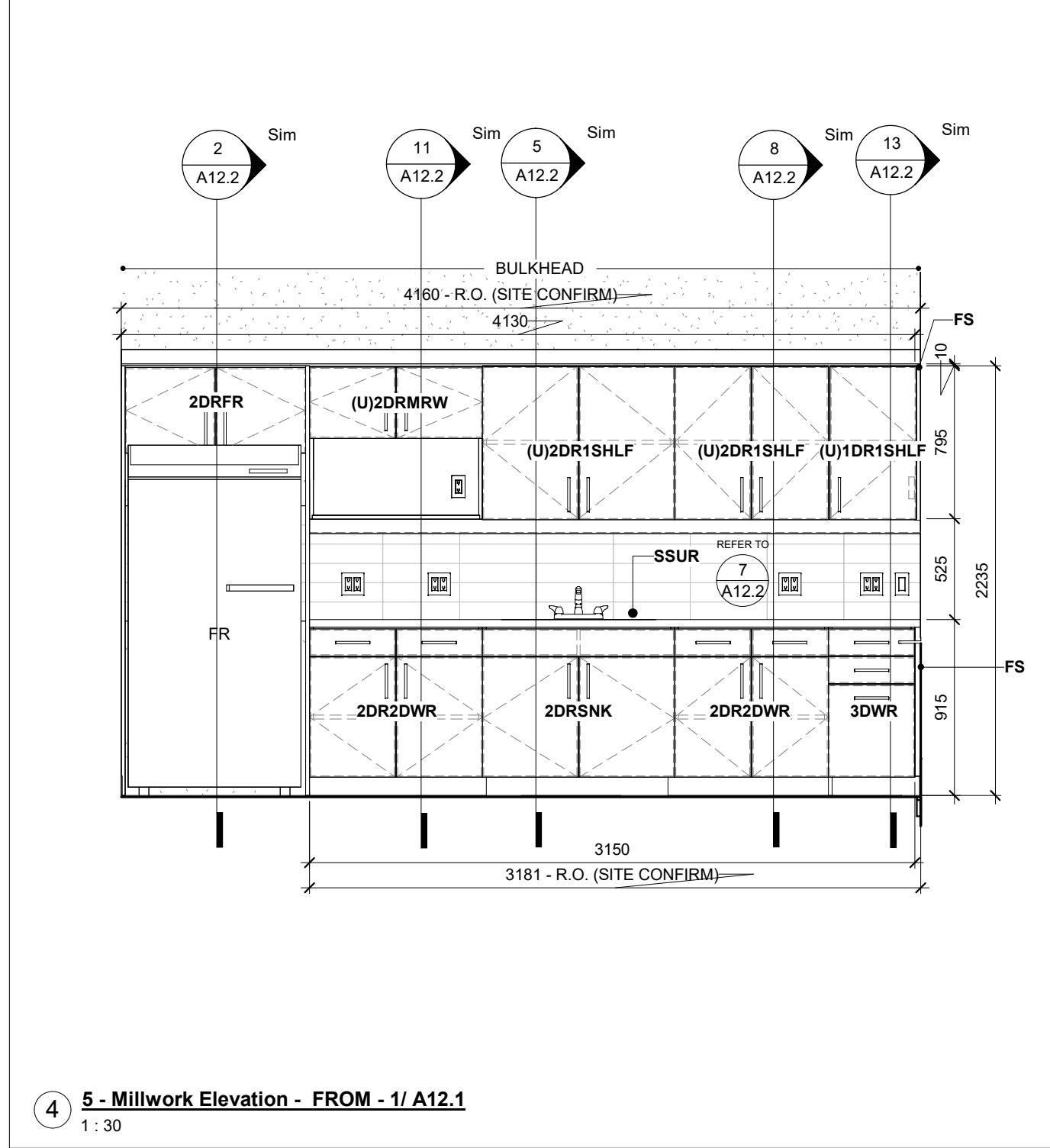
\*NOTE: FILE FRAMES AND FILEBARS SHALL BE SUPPLIED BY LONG LIFE LTD., 407 BIRCHMOUNT ROAD, SCARBOROUGH, ON OR EQUIVALENT

SCHEDULE - ARCHITECTURAL WOODWORK

MODEL	DIMENSIONS			FINISH	MATERIALS				COUNTERTOP MATERIAL	HARDWARE				MOUNT	POWER	VALENCE LIGHTING	COMMENTS	COUNT
	DEPTH	WIDTH	HEIGHT		CABINET BODY	CABINET FRONTS	MATCHING EDGE BAND	VALENCE MATERIAL		LOCKABLE	CABINET PULLS	HINGES	DRAWER SLIDE					
(U)2DRMRW	325.00 mm	900.00 mm	848.97 mm	LAM	MP11	MP11	MP11	MP11		128-CH	2 SETS	n/a	n/a	WDBLK		Yes		1
BKBD - FR	12.70 mm	2749.2 mm	2598.4 mm															1
ACCESS CORRIDOR																		
RNWW	350.00 mm	1600.0 mm	1100.0 mm	LAM		MP11	MP11		SSUR-1		n/a	n/a	n/a	WDBLK		Yes		1
DINING AREA																		
(U)1DR1SHLF	325.00 mm	450.00 mm	2235.0 mm	LAM	MP11	MP11	MP11	MP11		128-CH	1 SET	n/a	1 SET	WDBLK		Yes		1
(U)2DR1SHLF	325.00 mm	800.00 mm	2235.0 mm	LAM	MP11	MP11	MP11	MP11		128-CH						Yes		1
(U)2DR1SHLF	325.00 mm	1000.0 mm	2235.0 mm	LAM	MP11	MP11	MP11	MP11		128-CH						Yes		1
2DR2DWR	610.00 mm	750.00 mm	875.00 mm	LAM	MP00	MP11	MP11			128-CH	2 SETS	2 SETS	1 SET	WDBLK				3
2DR2DWR	610.00 mm	800.00 mm	875.00 mm	LAM	MP11	MP11	MP11			128-CH	2 SETS	2 SETS	1 SET	WDBLK				1
2DR2DWR	610.00 mm	900.00 mm	875.00 mm	LAM	MP00	MP11	MP11			128-CH	2 SETS	2 SETS	1 SET	WDBLK				1
2DRFR	610.00 mm	980.00 mm	2235.0 mm	LAM	MP00	MP11	MP11			128-CH								1
3DWR	610.00 mm	450.00 mm	875.00 mm	LAM	MP00	MP11	MP11			128-CH	n/a	3 SETS	n/a	WDBLK				1
DSPNCH	300.00 mm	630.00 mm	875.00 mm	LAM	MP11	MP11	MP11			N/A	n/a	n/a	n/a	n/a				2
WDPNL	12.70 mm	1425.0 mm	775.00 mm			MP11	MP11											1
WDPNL	12.70 mm	1427.5 mm	775.00 mm			MP11	MP11											1
I.T ROOM																		
BKBD - FR	12.70 mm	1865.6 mm	2598.4 mm															1
BKBD - FR	12.70 mm	2777.2 mm	2598.4 mm															1
BKBD - FR	12.70 mm	3019.4 mm	2598.4 mm															1
MENS WASHROOM																		
BFVAN-1	395.00 mm	1120.0 mm	820.00 mm						SSUR-1									1
VEHICLE BAY																		
CA2DR	740.00 mm	725.00 mm	875.00 mm	LAM	MP00	MP11	MP11			128-CH	2 SETS	2 SETS	1 SET	WDBLK				2
CA(U)2DR1SHLF	325.00 mm	725.00 mm	2235.0 mm	LAM	MP00	MP11	MP11	N/A		128-CH	2 SETS	n/a	1 SET	WDBLK		No		2
CASS(S)	780.00 mm	1500.0 mm	915.00 mm	SS					TBA - Stainless Steel Brushed									1
WOMENS WASHROOM																		
BFVAN-1	395.00 mm	1120.0 mm	820.00 mm						SSUR-1									1
WRITE UP ROOM																		
(U)2DR1SHLF	325.00 mm	749.98 mm	2235.0 mm	LAM	MP00	MP11	MP11	MP11		128-CH	2 SETS	n/a	1 SET	WDBLK		Yes		4
PED3DWR	725.00 mm	450.00 mm	710.00 mm	LAM	MP11	MP11	MP11			128-CH	n/a	3 SETS	n/a	WDBLK				1



- NOTES:  
1. SHOP DRAWING REQUIRED PRIOR TO FABRICATION  
2. THIS DETAIL TO BE READ IN CONJUNCTION WITH A700 GENERAL NOTES - MILLWORK



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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

# YORK REGION PRS #33 RFTC 397-21

PROJECT:

CLIENT

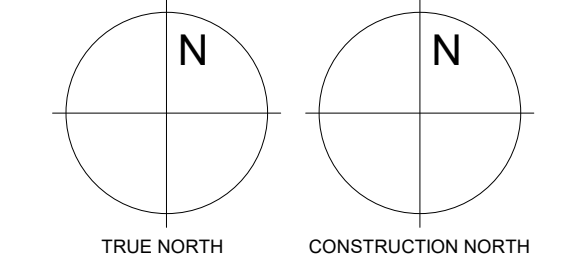
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT  
THOMASBROWNARCHITECTS  
187 SPADINA AVENUE, SUITE 500 1 TORONTO ONTARIO 1 M5T 2C8

PROFESSIONAL SEAL

## MILLWORK PLANS, ELEVATIONS & DETAILS

ORIENTATION



DATE	2020-11-18
PROJECT NO.	1622
DRAWING NO.	A12.1
REVISION	19

2025-11-02 9:56:39 PM



2025-11-02 9:56:42 PM

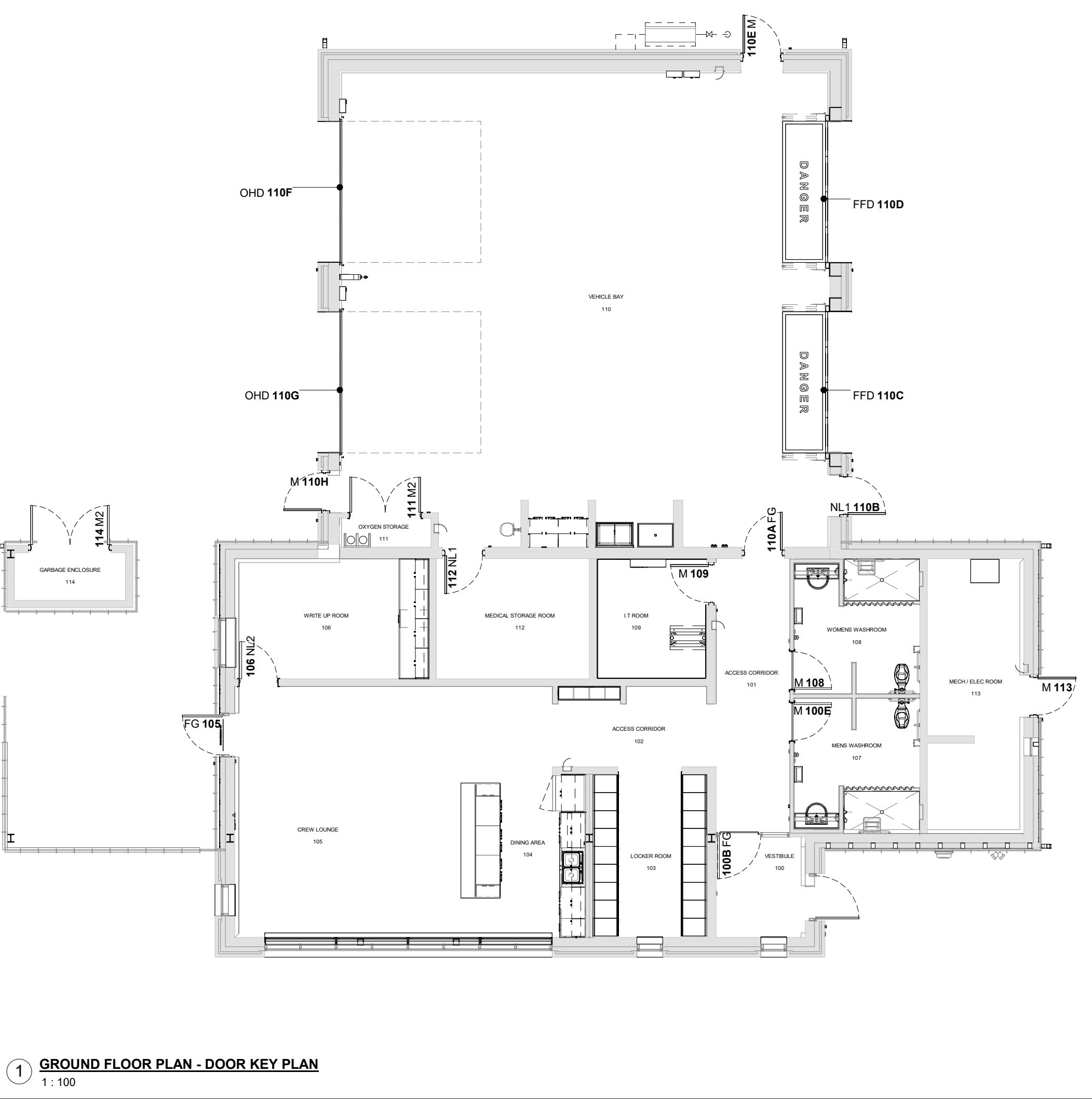


HOLLOW METAL DOOR HARDWARE SCHEDULE

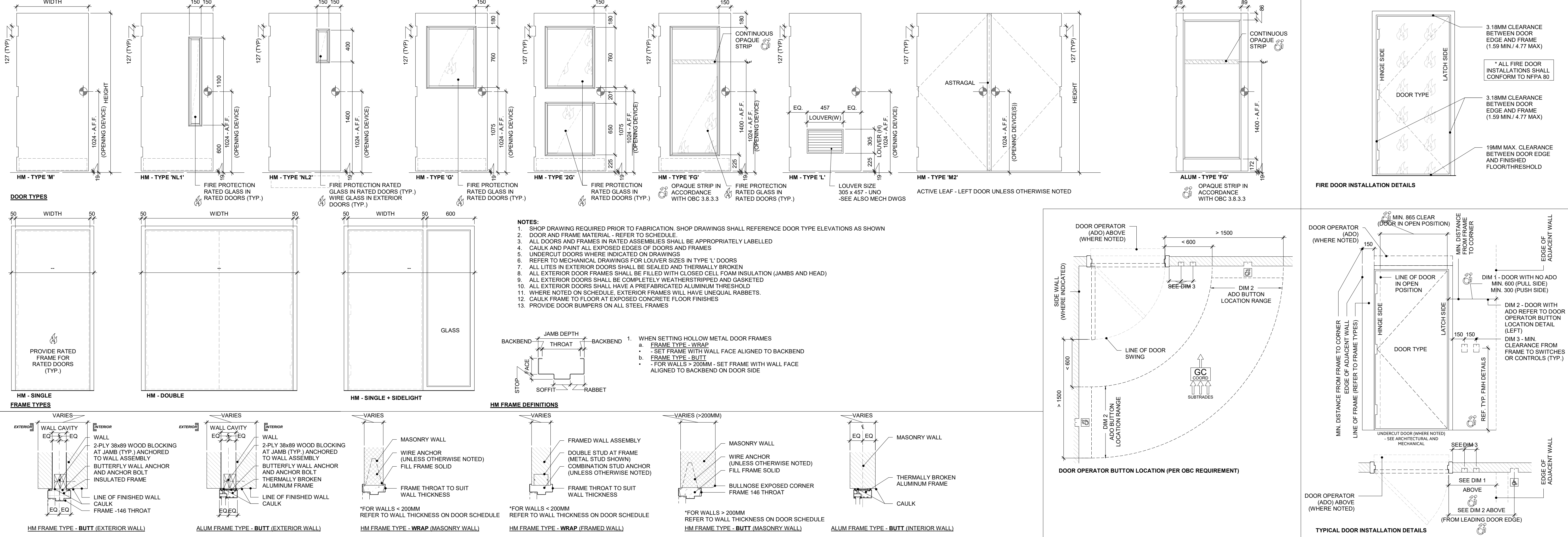
DIRECTION			OPENING		DOOR AND FRAME CONSTRUCTION										OPERATION										ACCESS CONTROL					FUNCTION		COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
No.	FROM	TO	WIDTH	HEIGHT	DOOR TYPE	THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAMES										ACCESSORIES										DOOR CLOSER	DOOR CLEVER	PUSHBAR		DOOR PULL	PANIC SET	KICKPLATE	PUSHPLATE	CARD READER	DOORBELL	DOOR CONTACT	ELECTRIC STRIKE	KEYPAD	REX	SIGNAGE	STOREROOM	OFFICE/PRIVACY	PASSAGE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
									INSULATED	GLAZED	LOUVER	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	SMOKE SEAL	AUTO DOOR BOTTOM	ASTRAGAL	THRESHOLD	TRANSITION STRIP	WEATHERSTRIP	DOOR SWEEP	WALL STOP	FLOOR STOP	DOOR OPERATOR	PTL FUNCTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
100B	MECH / ELEC ROOM	ACCESS CORRIDOR	1100	2150	FG	51	AL	AL		*	BUTT	AL	AL	0				*			*	*	*	*	*											*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

DOOR QUANTITIES BY DOOR TYPE

TYPE	MATERIAL	QUANTITY
FG	AL	3
FG	HM	1
M	HM	6
M2	HM	2
NL1	HM	2
NL2	HM	1
Grand total: 15		



2 / A13.1

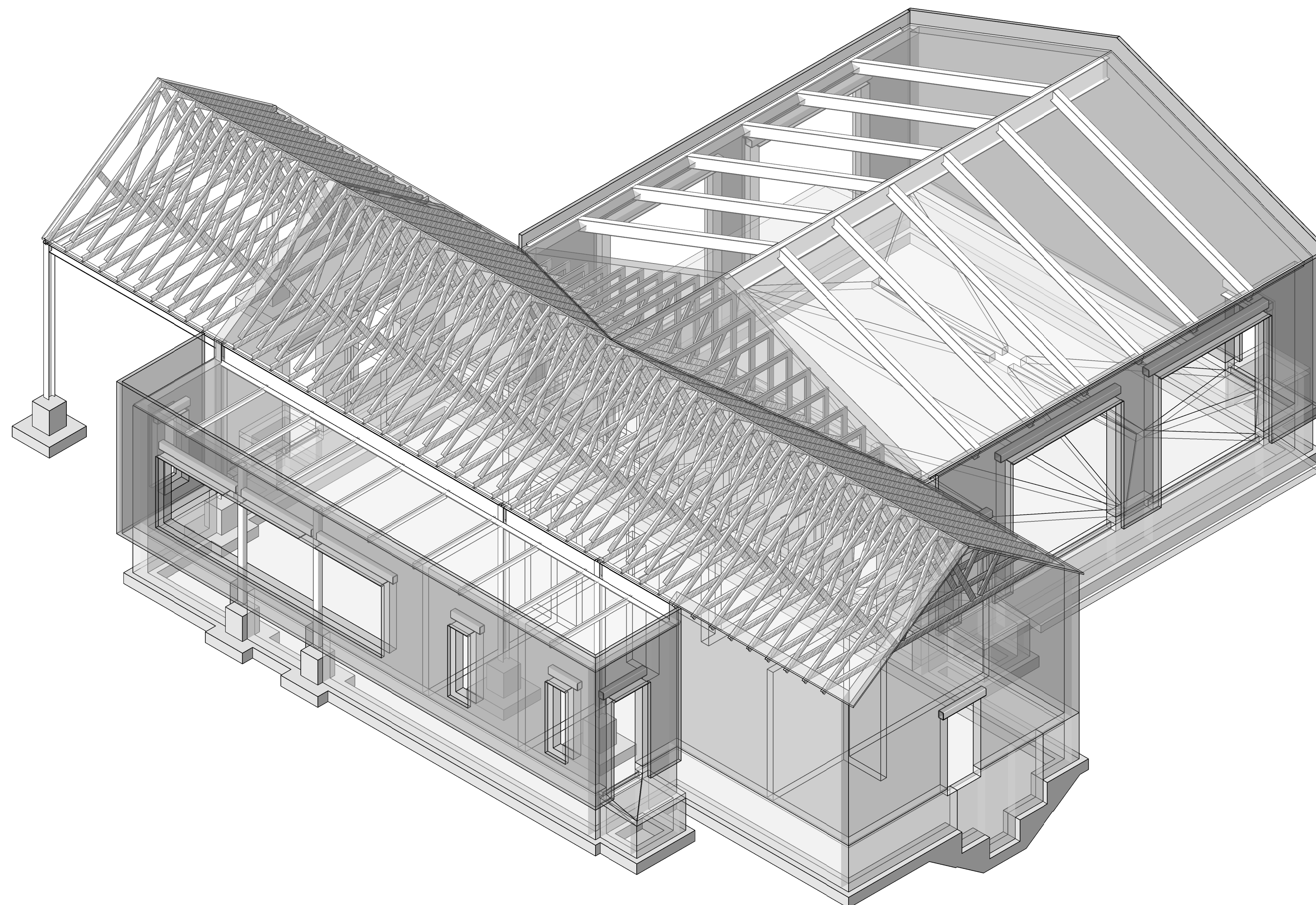


THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS  
REMAIN THE COPYRIGHT PROPERTY OF  
THOMAS BROWN ARCHITECT INC.  
AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
3	60% DD RE-SUBMISSION	2020.07.20
5	60% CONTRACT DOCUMENTS	2020.09.28
8	90% CONTRACT DOCUMENTS	2020.12.03
12	BUILDING PERMIT	2023.07.07
14	100% CLIENT REVIEW PRE-TENDER	2023.10.17
19	TENDER	2025-10-30

YORK REGION PRS #33 RFTC  
397-21  
2960 TESTON ROAD, VAUGHAN





# YORK REGION PRS #33

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

DRAWING LIST	
Sheet Number	Sheet Name
S0	COVER SHEET
S1-01	FOUNDATION PLAN
S1-02	ROOF FRAMING PLAN
S2-01	FOUNDATION SECTIONS
S3-01	ROOF SECTIONS
S4-01	GENERAL NOTES
S4-02	TYPICAL DETAILS
S4-03	TYPICAL DETAILS
S4-04	TYPICAL DETAILS AND GENERAL NOTES
S4-05	TYPICAL DETAILS



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



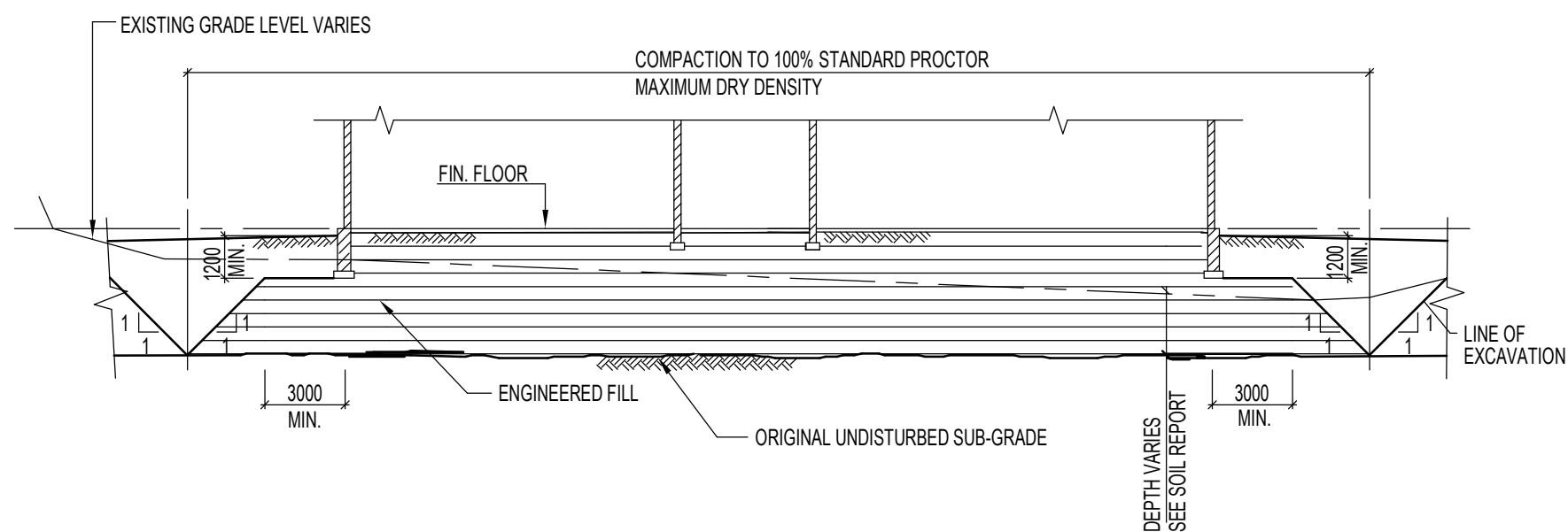
## CONCRETE MIX SCHEDULE

EXPOSURE	ELEMENT	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	EXPOSURE CLASSIFICATION	NOTES
GENERAL NON-EXPOSED CONCRETE (i.e., NOT EXPOSED TO CHLORIDES NOR FREEZE AND THAW)	FOOTINGS	25	N	
	SLAB ON GRADE 2	25	N	
	LEAN MIX	5	N	
	HOUSEKEEPING PADS	25	N	
EXTERIOR EXPOSED CONCRETE	FOUNDATION/RETAINING WALLS	25	F-2	
	SLAB ON GRADE 2, SIDEWALKS	32	C-2	
	FROST SLABS / APRON SLABS	35	C-1	
GROUT	MASONRY FILL/BOND BEAMS	15 (FINE GROUT)		CONFORM TO REQUIREMENTS OF CSA A179

1) STRENGTH SPECIFIED AT 28 DAYS U.N.O. IN DRAWINGS AND SCHEDULES. FOR COLUMNS AND WALLS ONLY. FOR 60MPa AND 65MPa CONCRETE ARE PERMITTED TO BE 56 DAY MIX, 70MPa AND ABOVE CONCRETE ARE PERMITTED TO BE AT 90 DAYS MIX.  
2) REINFORCED WITH SYNTHETIC FIBERS ADDED AT BATCHING PLANT - SEE SPECIFICATIONS

WHERE MECHANICAL SERVICE PIPES PASS THROUGH LOAD BEARING FOUNDATION WALLS, PROVIDE STEEL SLEEVES (MIN.50Ø) LARGER THAN PIPE (TYPICAL)

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



**DIAGRAMMATIC SECTION THROUGH THE BUILDING SHOWING PROPOSED ENGINEERED FILL**  
(REFER TO ENGINEERED FILL NOTES ON THIS DRAWING)

## DESIGN CRITERIA NOTES

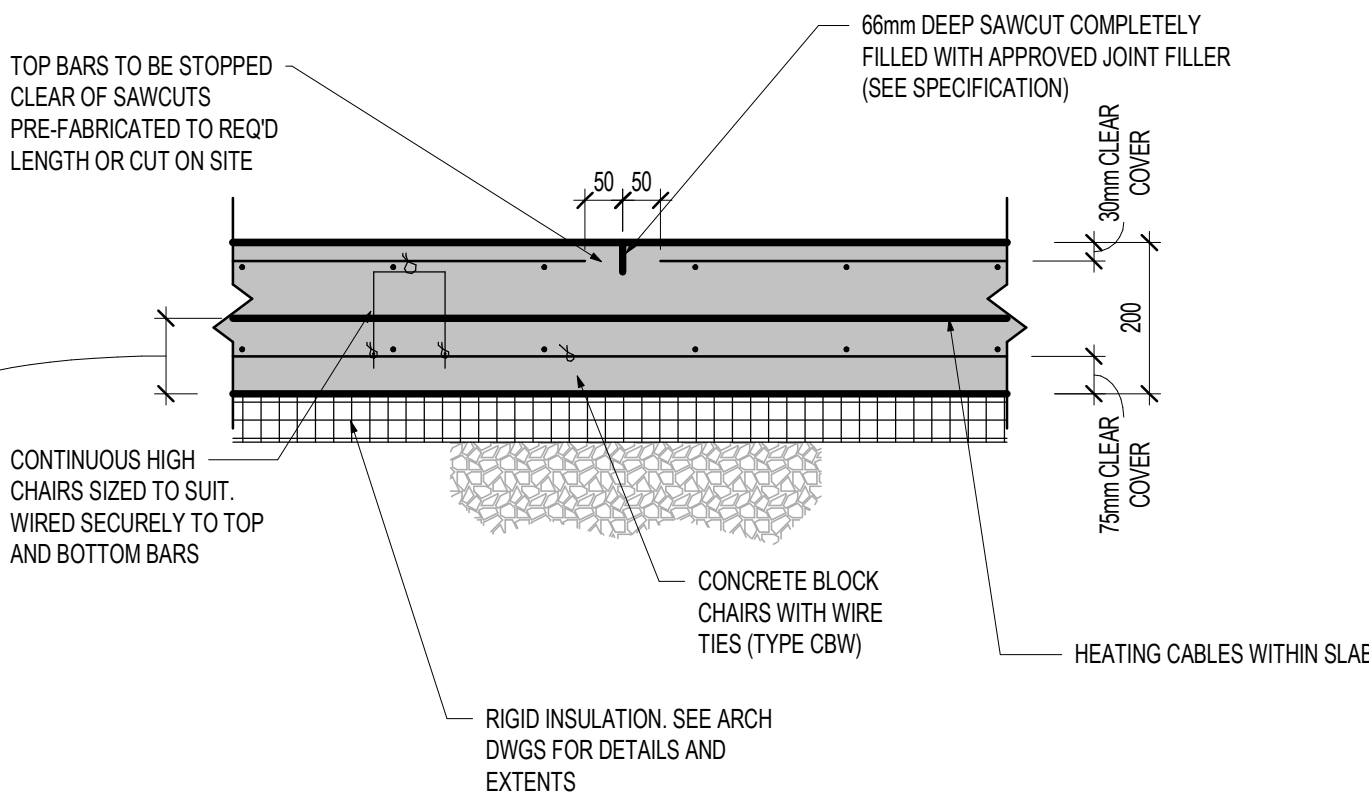
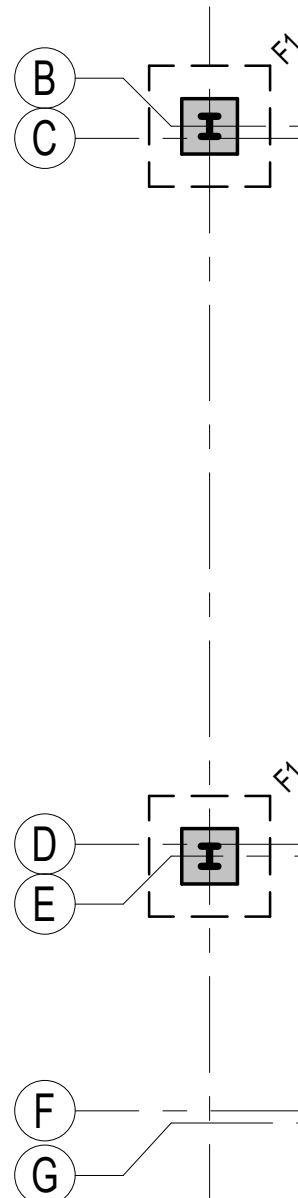
- GENERAL**
  - THE PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 OBC (O. REG. 332/12 AS AMENDED) INCLUDING CLAUSES 4.1.6.1(1), 4.1.6.4(3), 4.1.7 AND 4.1.8.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO IS SUPPLYING AND INSTALLING EQUIPMENT, THAT ALL ELEMENTS OF STRUCTURES LISTED IN TABLE 4.1.8.18 OF THE OBC 2012 ARE DESIGNED IN ACCORDANCE WITH CLAUSE 4.1.8.18.
  - BUILDING IMPORTANCE CATEGORY (SNOW, WIND, AND EARTHQUAKE) IS POST DISASTER.
  - STIFF ELEMENTS NOT PART OF SFERS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.3 (6a). EXAMPLES INCLUDE, BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE. PROVIDE MINIMUM 15mm SEPARATION UNLESS NOTED OTHERWISE.
  - MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL:
    - PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
    - DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.
    - DESIGN ALL HANDRAILS TO MEET LOADS DESCRIBED IN OBC 3.1.6.5(12).
    - DESIGN ALL STAIRS TO SUPPORT A MINIMUM LIVE LOAD OF 4.8kPa.
  - ARCHITECTURAL PRECAST FABRICATOR SHALL:
    - PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
    - WHERE PRECAST IS USED AS A GUARD DESIGN THE PRECAST AND CONNECTIONS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.
- LATERAL LOADS ON STRUCTURE**
  - WIND**
 $q(150) = 0.44kPa$   
 $C_e = 10/107115$  NOT LESS THAN 0.9.  
 $C_g = 2.0$   
 $C_p = AS PER FIGURE 4.1.7.6.A OF NBC 2015$
  - EARTHQUAKE**
 $Sa(0.2) = 0.167$      $PGA = 0.105$      $F_a = 1.24$   
 $Sa(0.5) = 0.096$      $SITE CLASS = D$      $F_v = 1.55$   
 $Sa(1.0) = 0.053$      $R_d = 2.0$      $I_e = 1.5$   
 $Sa(2.0) = 0.026$      $R_o = 1.5$      $I_e F_a S_a(0.2) = 0.31$   
 $Sa(5.0) = 0.0065$   
 $Sa(10.0) = 0.0027$   
 SFERS CONSISTS MODERATELY DUCTILE MASONRY SHEAR WALLS AND SQUAT SHEAR WALLS.  
 METHOD OF ANALYSIS - STATIC
- FOUNDATION WALLS**
  - WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND HORIZONTAL EARTH PRESSURE  
 $(P=K (W1+h)g)$   
 $K = 0.4$   
 $W1 = 22kN/m^3$   
 $q = 12kPa$   
 $h =$  DEPTH IN METRES
  - THE WALLS HAVE BEEN DESIGNED ASSUMING FREE DRAINING BACKFILL OR THE USE OF A DRAINAGE CORE TO PREVENT THE BUILD-UP OF HYDROSTATIC PRESSURE.

## ENGINEER FILL NOTES

- GENERAL**
  - THE FOLLOWING ARE MINIMUM REQUIREMENTS FOR PLACING ENGINEERED FILL WITHIN THE BOUNDARIES OF THE BUILDING ENVELOPE AND EXTENDING BEYOND PERIMETER OF THE BUILDING FOUNDATIONS BY A MIN. OF **300mm** AND SLOPING DOWNWARD TO THE SUB-GRADE, IN ALL DIRECTIONS, AT 45°.
  - PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL CONVEY A MEETING TO BE ATTENDED BY AT LEAST THE ARCHITECT, STEPHENSON ENGINEERING, THE SOIL CONSULTANT, THE GENERAL CONTRACTOR, AND THE EXCAVATION AND BACKFILLING CONTRACTOR. THE PURPOSE OF THIS MEETING IS TO ENSURE THAT ALL PARTIES UNDERSTAND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND TO DISCUSS PROCEDURES, TIMING, MATERIALS AND TESTING, ETC.
  - REFER ALSO TO THE SPECIFICATION, THE SOIL REPORT AND DIAGRAMMATIC SECTION.
- MATERIALS**
  - ALL MATERIAL TO BE USED AS FILL MUST BE APPROVED EXISTING ON-SITE MATERIAL OR IMPORTED GRANULAR 'B' MATERIAL AS APPROVED BY THE SOIL CONSULTANT.
  - THE LAYER IMMEDIATELY BELOW THE SLAB-ON-GRADE SHALL BE A MIN. OF **250mm, 19mm CLEAR CRUSHED STONE**. ONLY THE EXISTING ON-SITE MATERIAL WHICH ARE FREE OF TOP SOIL AND ARE NOT WET MAY BE SUITABLE FOR REUSE, AND ALL MATERIAL SHOULD BE REVIEWED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER DURING EXCAVATION TO DETERMINE THE SUITABILITY OF THE EXISTING FILL MATERIAL. ALL IMPORTED BORROW FILL MATERIAL FROM LOCAL SOURCES SHOULD BE FREE FROM ORGANIC MATERIAL AND FOREIGN OBJECTS, AND SHOULD BE TESTED GEOTECHNICALLY BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO TRANSPORT TO THE SITE.
- EXECUTION**
  - REMOVE AND DISPOSE OF ALL **EXISTING ORGANIC MATERIAL FILL, AND CONTAMINATED MATERIAL** DOWN TO NATURAL UNDISTURBED, UN-CONTAMINATED SUB-GRADE AS INDICATED ON BULK EXCAVATION PLAN AND SOILS REPORT.
  - THE SUB-GRADE SHALL BE PROOF ROLLED WITH HEAVY ROLLER (NO VIBRATION) TO MIN. **98%** STANDARD PROCTOR MAXIMUM DRY DENSITY.
  - ANY LOOSE OR SOFT SPOT SHALL BE SUB-EXCAVATED AND BACKFILLED WITH APPROVED COMPACTED MATERIAL.
  - FILL REQUIRED TO RAISE THE GRADES SHALL COMPRISE OF APPROVED ON-SITE AND IMPORTED GRANULAR 'B' MATERIAL PLACED IN SUCCESSIVE **300mm** LAYERS EACH COMPACTED TO AT LEAST **100%** STANDARD PROCTOR MAXIMUM DRY DENSITY.
  - THE LAYER IMMEDIATELY BELOW THE SLAB-ON-GRADE SHOULD BE A **250mm MIN. LAYER OF 19mm CLEAR STONE ROLLED AND COMPACT**.
  - ALL PROCEDURES, EQUIPMENT AND MATERIALS SHALL BE APPROVED BY THE SOIL CONSULTANT WHO SHALL BE ENGAGED FULL TIME TO SUPERVISE THIS WORK.
  - CONDITIONS AS OUTLINED IN THE CONTRACT DOCUMENTS ARE ASSUMED AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME THAT THE DOCUMENTS WERE PREPARED.
  - THE SOIL CONSULTANT SHALL ISSUE, VIA "E-MAIL", DAILY REPORTS OF THE WORK.
  - IF ANY ASPECT OF THE ACTUAL WORK IS NOT AS ASSUMED, THEN THE SOIL CONSULTANT SHALL ADVISE THE ARCHITECT IMMEDIATELY, BY TELEPHONE, BEFORE PROCEEDING.
  - NOTE THAT ONLY THE EXISTING ON-SITE MATERIAL AS NOTED MAY BE SUITABLE FOR REUSE FOR BACKFILLING OF TRENCHES, ETC., OR AGAINST FOUNDATION WALLS.
  - FOR AREAS UNDER DRIVEWAYS AND PARKING ETC., OUTSIDE BUILDING ENVELOPE, REFER TO SPECIFICATION AND SOIL REPORT.

## BULK EXCAVATION PLAN

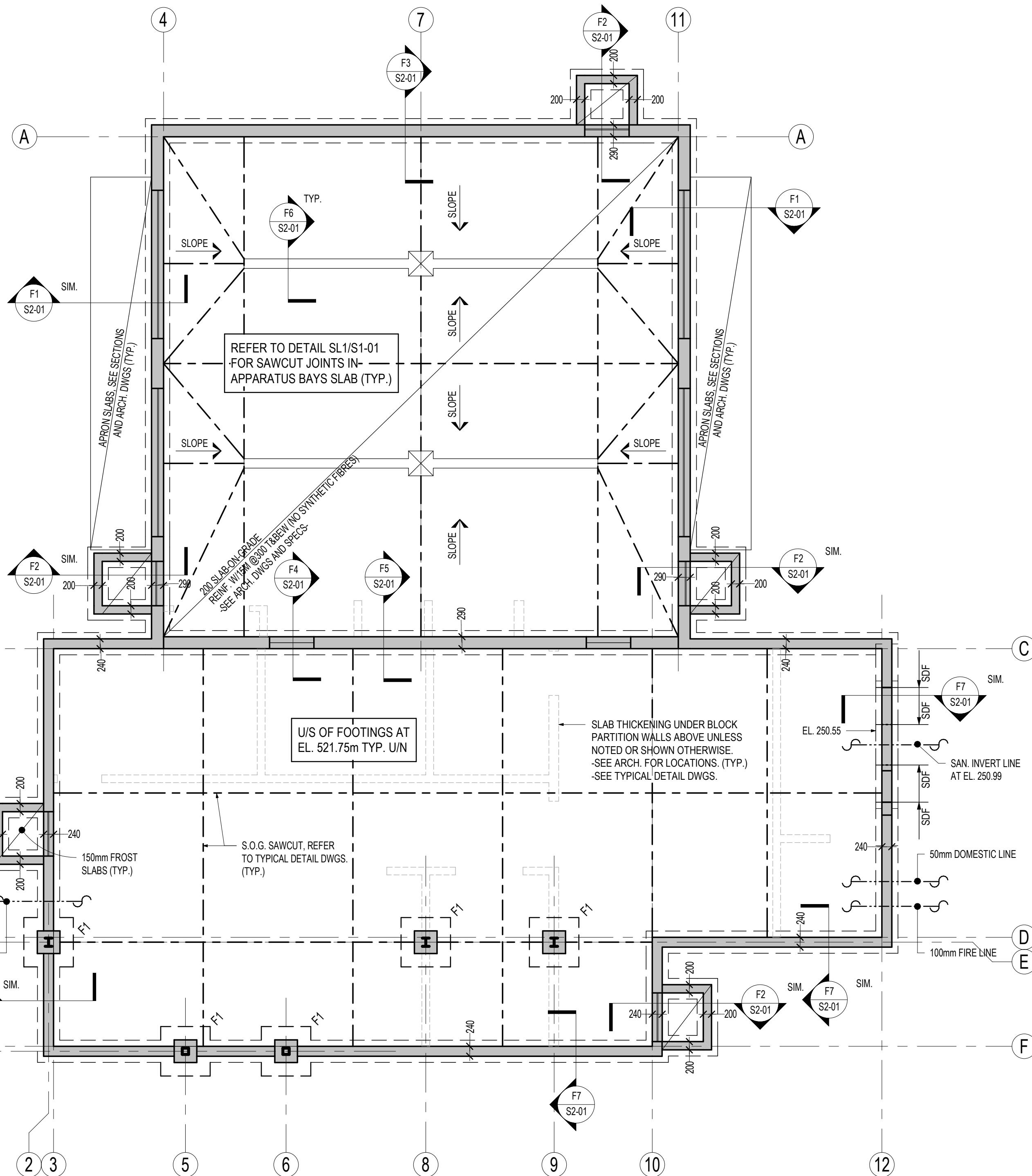
1 : 200



- NOTES:  
1. MAXIMUM SPACING OF BOTTOM AND TOP CHAIRS 1200 o/c.  
2. FOR JOINTS IN OTHER SLABS-ON-GRADE, SEE TYPICAL DETAILS.

## SL1 DETAIL

S1-01 1 : 10



## FOUNDATION PLAN

1 : 75

## FOUNDATION PLAN NOTES

- TOP OF SLAB - ON - GRADE TO BE 0.0 BELOW FINISHED FLOOR DATUM ELEVATION 253.15m, EXCEPT AS NOTED. TOS = TOP OF SLAB.
- FOOTINGS SHALL BEAR ON ENGINEERED FILL DEVELOPED OVER COMPETENT NATIVE SOILS CAPABLE OF SUSTAINING A MINIMUM OF 150 kPa (SL5) AND 225 kPa (UL5).
- REFER TO THE SOIL REPORT No. GOR-00247181-A0 DATED AUG. 03, 2018 PREPARED BY EXP SERVICES INC.
- SOIL AT THE UNDERSIDE OF THE FOOTINGS IS TO BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF A SOILS CONSULTANT BEFORE PLACING CONCRETE.
- REFER ALSO TO SITE PREPARATION NOTES ON THIS DRAWING.
- CO-ORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO PROCEEDING WITH ANY WORK.
- UNDERSIDE OF WALL FOOTINGS TO BE AT ELEVATIONS AS NOTED ON PLAN.
- SDF = STEP DOWN FOOTING.
- UNLESS OTHERWISE SHOWN, ALL WALL FOOTINGS TO BE 300mm DEEP WITH 150mm PROJECTIONS EACH SIDE.
- FILL REQUIRED ON BOTH SIDES OF FOUNDATION WALLS SHALL BE PLACED AND COMPACTED SIMULTANEOUSLY ON EACH SIDE TO EQUALIZE SOIL PRESSURE.
- PROVIDE SLAB DEPRESSIONS AND SLOPES, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, AS REQUIRED BY THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
- THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE INCLUDING STRIP FOOTINGS.
- GENERAL SLAB - ON - GRADE IS 100mm THICK REINFORCED WITH SYNTHETIC FIBRES (REFER TO CONCRETE SPECIFICATION), EXCEPT AS NOTED.
- CONCRETE STRENGTHS - SEE CONCRETE MIX SCHEDULE.
- SEE TYPICAL NOTES, TYPICAL DETAILS, AND ALL OTHER DRAWINGS.

FOOTING SCHEDULE				
FOOTING NUMBER	FOOTING LENGTH	FOOTING WIDTH	FOOTING THICKNESS	FOOTING REINF. B.E.W.
F1	1200	1200	300	4-15M

THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS REMAIN THE COPYRIGHT PROPERTY OF STEPHENSON ENGINEERING AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

## ISSUE OR REVISION

NO. ISSUED FOR DATE  
1 ISSUED FOR 90% SUBMISSION NOV/17/2020

# YORK REGION PRS #33

PROJECT :

CLIENT :



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



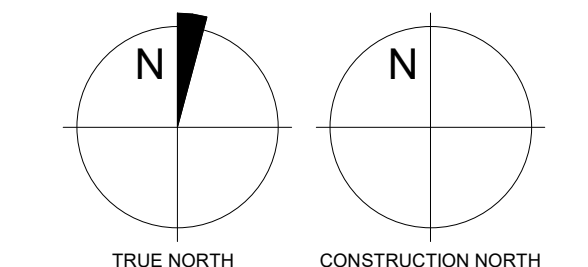
2550 Victoria Park Ave, Suite 602  
Toronto ON M2J 5A9 | Tel: (416) 435 9970  
www.stephenson-eng.com | info@stephenson-eng.com

PROFESSIONAL SEAL

DWG TITLE

## FOUNDATION PLAN

ORIENTATION



DATE

NOV. 2020

SCALE

As indicated

DRAWN BY

AE

CHECKED BY

MM

DWG STATUS

PROJECT No.

20190540

DRAWING No.

S1-01

REVISION

1

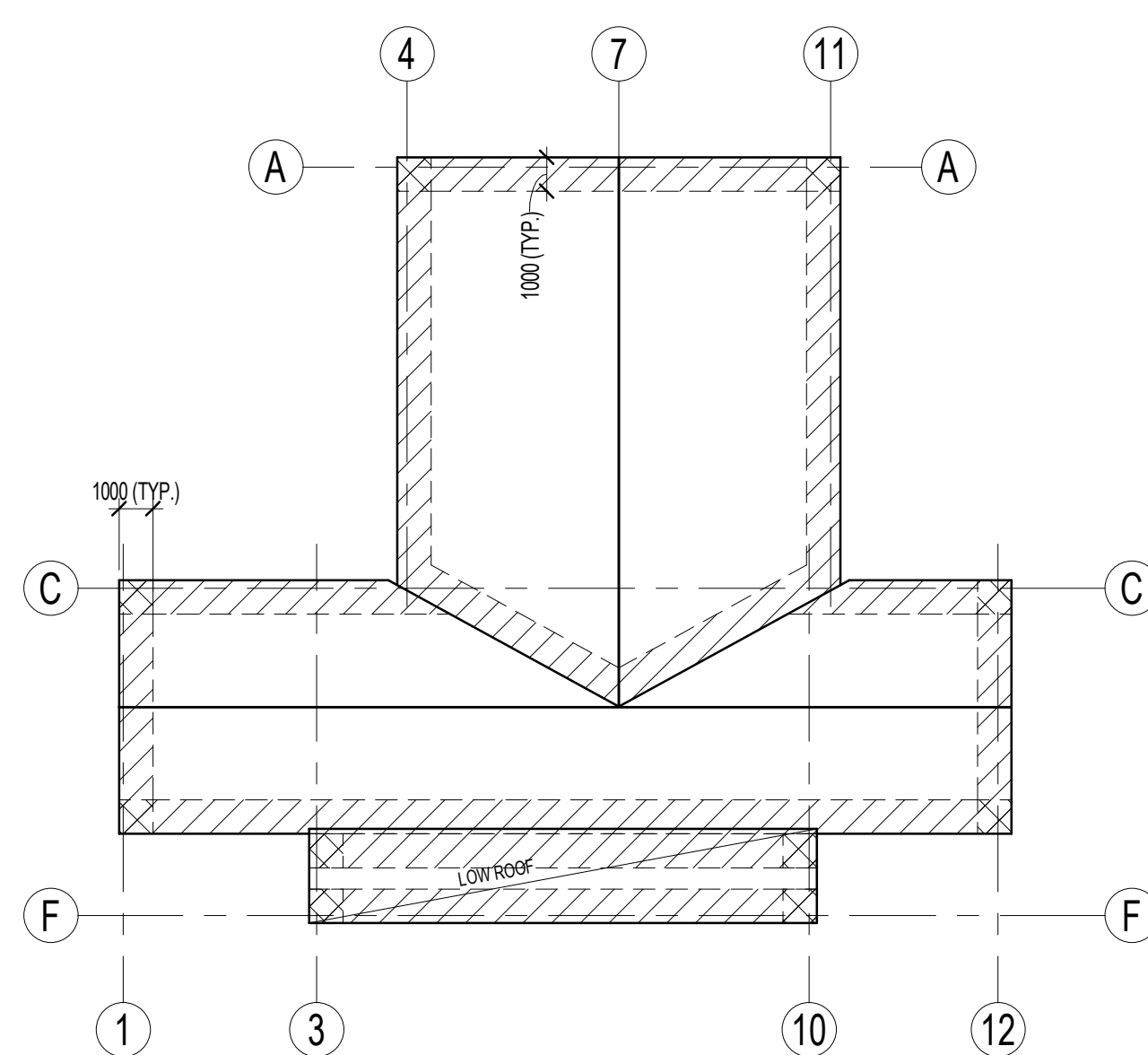
2020/11/17 1:12:25 PM



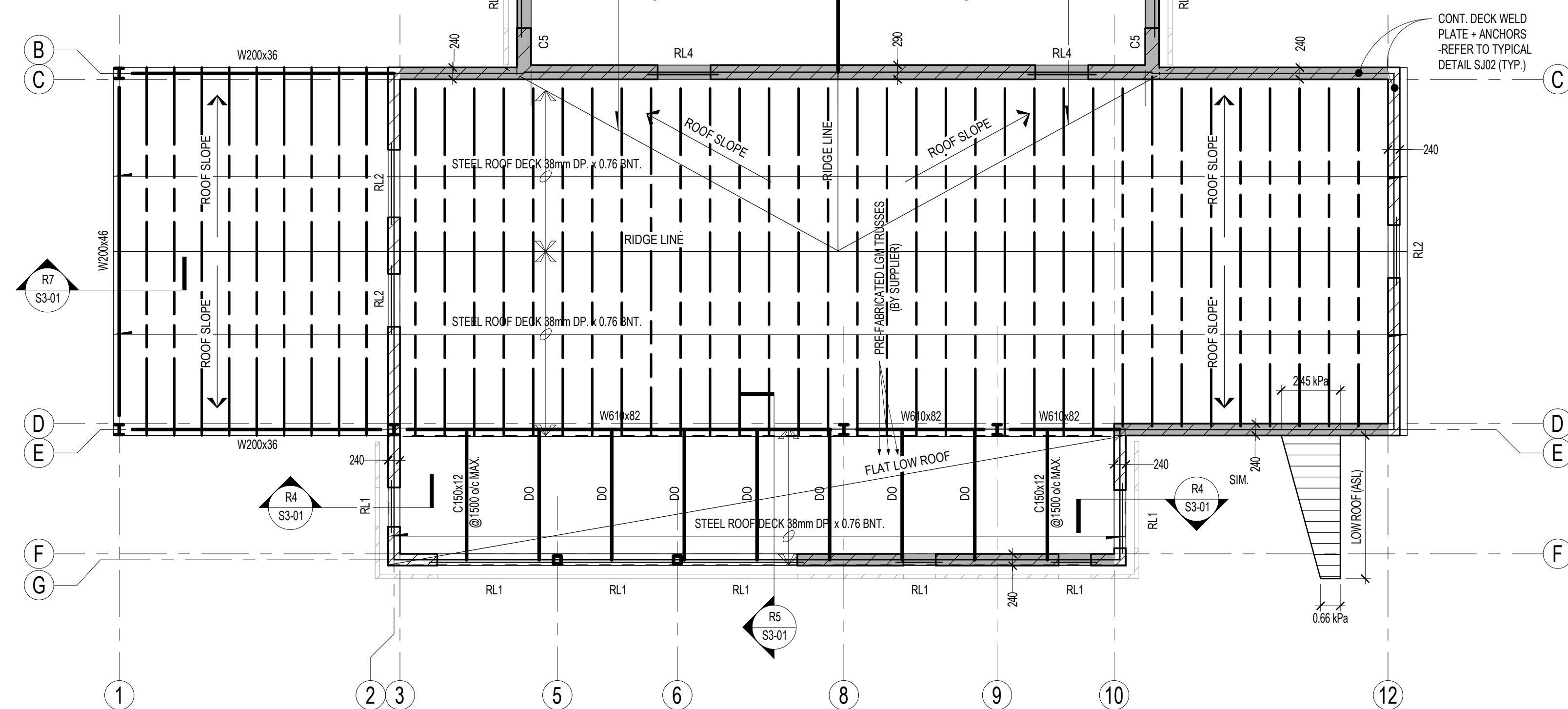
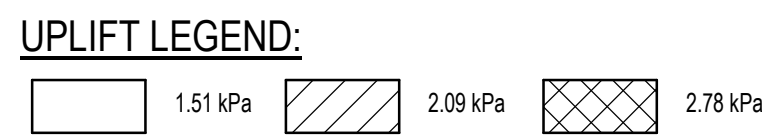
### **MASONRY CORE FILLS NOTES:**

1. PROVIDE CORE FILLS AS NOTED ON PLAN AND PROVIDE REINFORCEMENT AS SHOWN IN SCHEDULE.
2. CORE FILL EXTEND TO HEIGHT OF WALL, FLOOR TO FLOOR UNLESS NOTED.
3. INSTALL ALL REINFORCEMENT FULL HEIGHT BETWEEN FLOORS AND GROUT CORE SOLID FULL HEIGHT BETWEEN FLOORS UNLESS NOTED.
4. WHERE CORE FILL CONTINUES TO NEXT FLOOR ABOVE, EXTEND INDICATED VERTICAL REINFORCEMENT TO PROVIDE SPECIFIED CLASS "B" TENSION LAP SPICE WITH REINFORCEMENT OF CORE ABOVE, WHERE MASONRY WALLS START ON TOP OF STEEL BEAMS, PROVIDE WELDABLE REINFORCING DOWELS TO MATCH REINFORCING NOTED IN THIS SCHEDULE, OR EQUIVALENT D2L DEFORMED BAR ANCHORS
5. PROVIDE 15M DOWELS IN FOUNDATION WALLS FOR ALL WALL REINFORCEMENT UNLESS NOTED OTHERWISE.
6. REFER TO M04 FOR LAP LENGTHS FOR VERTICAL BARS AND DOWELS.
7. REFER TO CORE FILLS SCHEDULE FOR DETAILS AND REINFORCEMENT.
8. REFER TO CORE FILL CHART AT EACH SIDE OF OPENINGS UN OTHERWISE NOTED ON PLANS AND/OR SECTIONS.
  - a) PROVIDE C1 AT UNSUPPORTED ENDS OF WALLS UN.
  - b) PROVIDE C1 AT EACH SIDE OF CONTROL JOINTS UN.
9. PROVIDE CORE FILL CHART AT ALL WALL CORNERS UN OTHERWISE IN PLANS AND/OR SECTIONS.
10. PROVIDE TITEL WALL B.L.A CONTROL JOINT BY BLOCK-LOCK OR EQUIVALENT FOR ALL VERTICAL CONTROL JOINTS IN EXTERIOR MASONRY WALLS EXCEEDING 4m IN HEIGHT.
11. SEISMIC MINIMUM REINFORCEMENT FOR WALLS.
12. REINFORCE ALL MASONRY SILLS, INTERIOR AND EXTERIOR, AS PER THE REINFORCING INDICATED IN THIS SCHEDULE. GROUT TOP TWO COURSES OF ALL SILLS SOLD. FULLY GROUT ALL EXTERIOR SILLS.

Technical drawing of a wall section showing dimensions and components. The drawing includes a cross-section of a wall with a vertical reinforcement bar (weld wall vertical reinf.) and a horizontal reinforcement bar (HSS). The wall is labeled as 'WELD WALL VERTICAL REINF. TO LINTEL-TYP. SEE PLAN AND SCHEDULE' and 'INTERIOR FACE'. The dimensions are: 90 (width of the wall), 175 (width of the vertical reinforcement bar), 240 (width of the horizontal reinforcement bar), 465 (width of the plate), 505 (total width), 85 (width of the HSS), and 10 (thickness of the wall). A note states: 'NOTE: BOTTOM PLATES TO TERMINATE 10mm CLEAR OF SUPPORTING MASONRY-VERIFY WITH ARCH.'




1. LOADS NOTED ARE WIND UPLIFT VALUES AND ARE NOT FACTORED.
2. ROOF JOISTS AND THEIR ANCHORAGE SHALL BE DESIGNED FOR THE MINIMUM NET UPLIFT VALUES AND NO LESS THAN THAT REQUIRED BY PART 4 OF THE ONTARIO BUILDING CODE.







ROOF FRAMING PLAN  
1:75

ROOF LOADING SCHEDULE		
LOADING ROOF USE	SUPERIMPOSED DEAD LOAD (kPa)	SNOW LOAD (kPa)
STEEL DECK ROOF	0.91	1.6 +ASL
GENERAL ROOF	1.11	1.6 +ASL
CORRIDOR ROOF	1.26	1.6 +ASL
MECHANICAL ROOF	1.76	1.6 +ASL
<p>IN ADDITION TO UNIFORM LOADING SHOWN, REFER TO ROOF PLAN FOR ADDITIONAL LOADING FOR ACCUMULATED SNOW LOADS (ASL) AS SHOWN, AND FOR POINT LOADS OF BRACING AND MECHANICAL EQUIPMENT.</p>		
<p>IN ADDITION TO UNIFORM LOADING SHOWN, DESIGN JOISTS FOR ANY CONCENTRATED LOADS RESULTING FROM MECHANICAL, PIPING OR AS A MINIMUM, DESIGN FOR POINT LOAD OF 2kN AT ANY LOCATION.</p>		
<p>NOTE: ROOFING SINGLE PLY = 0.72 kPa HAS BEEN INCLUDED IN THE ABOVE TABLE</p>		

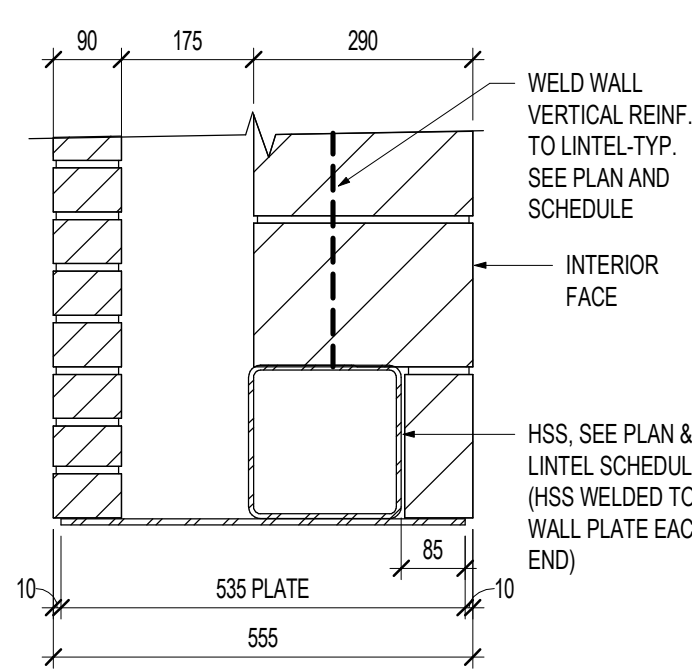
 = WALLS SHADED AS THUS REQUIRE CONT. LINTEL BLOCK BOND BEAM (SEE SECTIONS)

**NOTE:**  
TRIM STEEL DECK ROOF OPENINGS AS  
PER TYPICAL DETAIL SRO1 U/N.

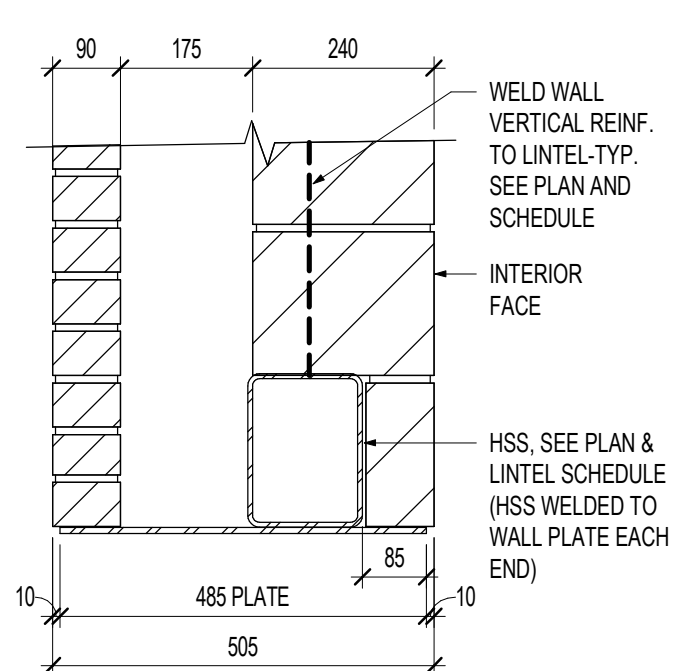
REFER TO DRAWING S1-04 FOR MISC.  
MECHANICAL LINTELS FOR DUCT WORK.

ROOF LINTEL SCHEDULE			
REFER TO SPECIFICATIONS A07 ON TYPICAL DETAIL DRAWINGS SEE ALSO SPECIFICATION			
MARK	MATERIAL	TYPE	REMARKS
RL1	HSS 203x152x6.4 + 486x8mm BOTTOM PLATE		WP1 E.E. ** SEE DL1/S1-S2
RL2	HSS 203x152x6.4 + 220x8mm BOTTOM PLATE		
RL3	HSS 203x203x6.4 + 536x8mm BOTTOM PLATE		WP2 E.E. ** SEE DL2/S1-S2
RL4	(3)-L89x89x6.4		
TT = 104N.M TORSION CONNECTION ALL EXTERIOR LINTELS SUPPORTING FACE BRICK TO BE GALVANIZED ** WELDED TO HSS EACH END.			

WALL PLATE SCHEDULE (LAST DIMENSION PARALLEL TO WEB)		
MARK	MATERIAL	REMARKS
WP1	225x20x225	(2)130 A BOLTS x 150 L.G.    JT
WP2	250x20x250	(2)130 A BOLTS x 150 L.G.    JT



DL2 DETAIL  
S1-02 1:10



DL1 DETAIL  
S1-02 1:10



ISSUE OR REVISION

NO. ISSUED FOR DATE  
1 ISSUED FOR 90% SUBMISSION NOV/17/2020

PROJECT : YORK REGION PRS #33

2960 TESTON ROAD, VAUGHAN

CLIENT



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



2550 Victoria Park Ave. Suite 602  
Toronto ON M2J 5A9 | Tel: (416) 435 9970  
www.stephenson-eng.com | info@stephenson-eng.com

PROFESSIONAL SEAL

DWG TITLE

FOUNDATION  
SECTIONS

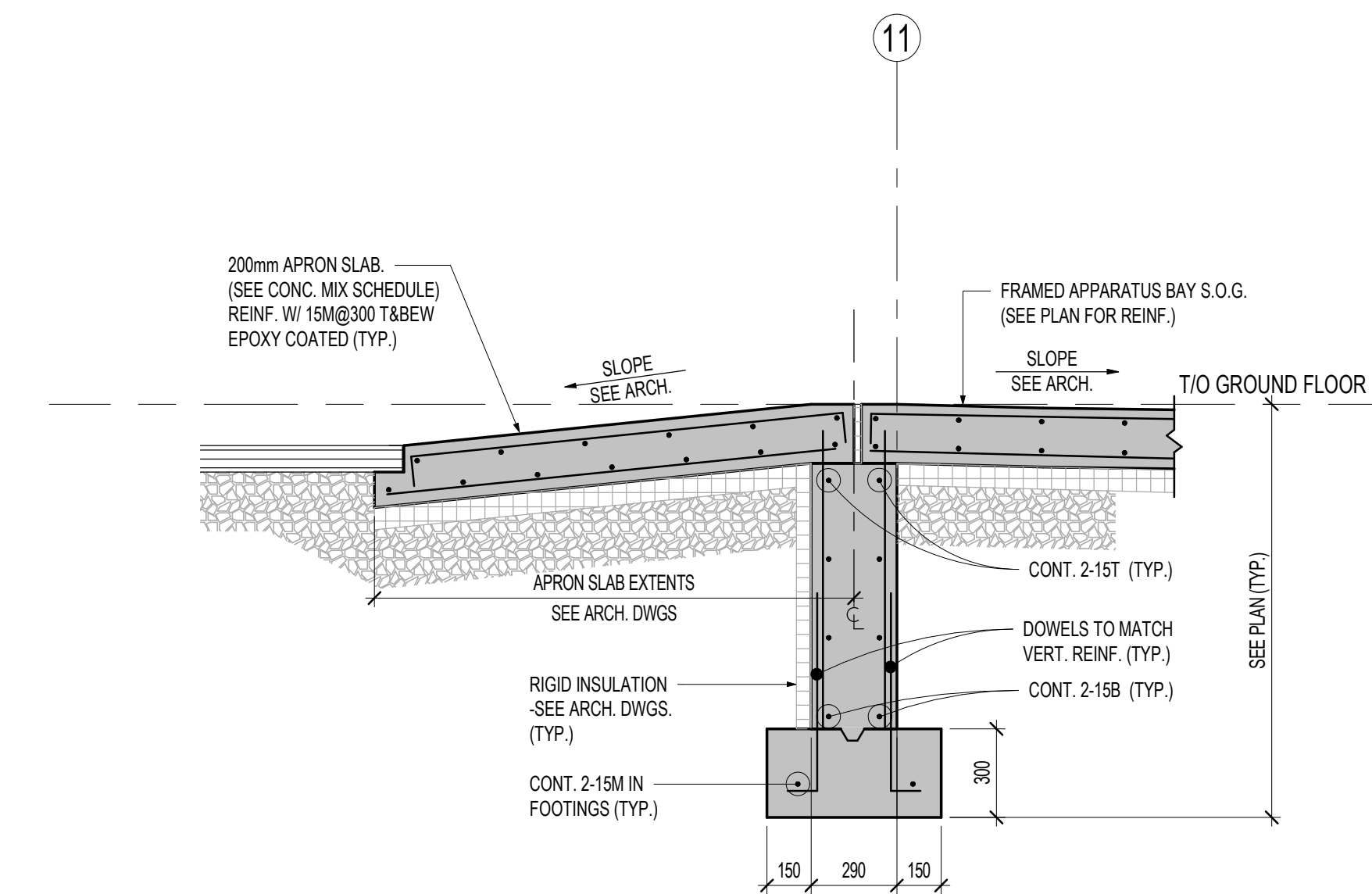
ORIENTATION

DATE NOV. 2020

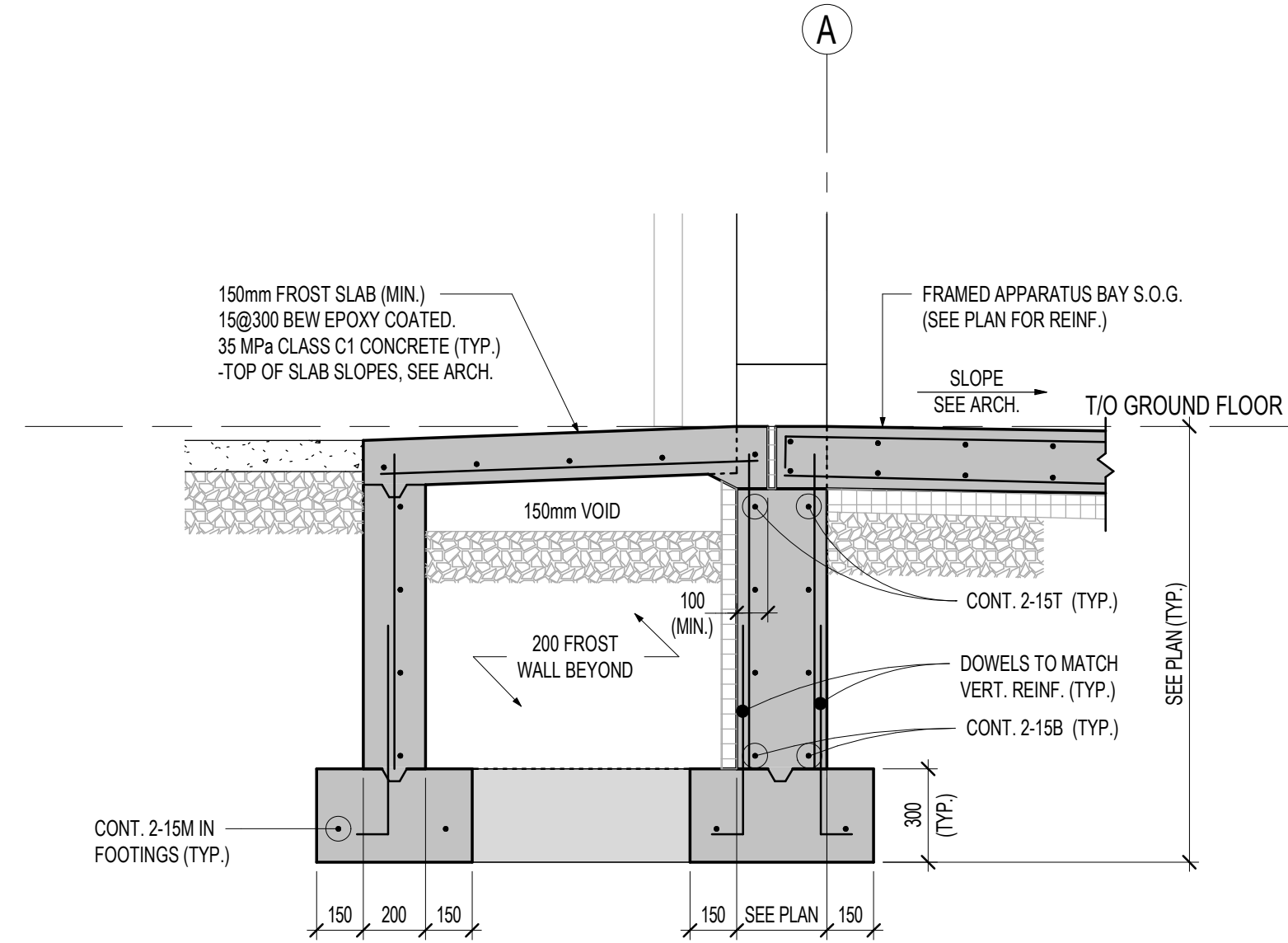
SCALE As indicated DRAWN BY AE CHECKED BY MM  
DWG STATUS :

PROJECT No. 20190540

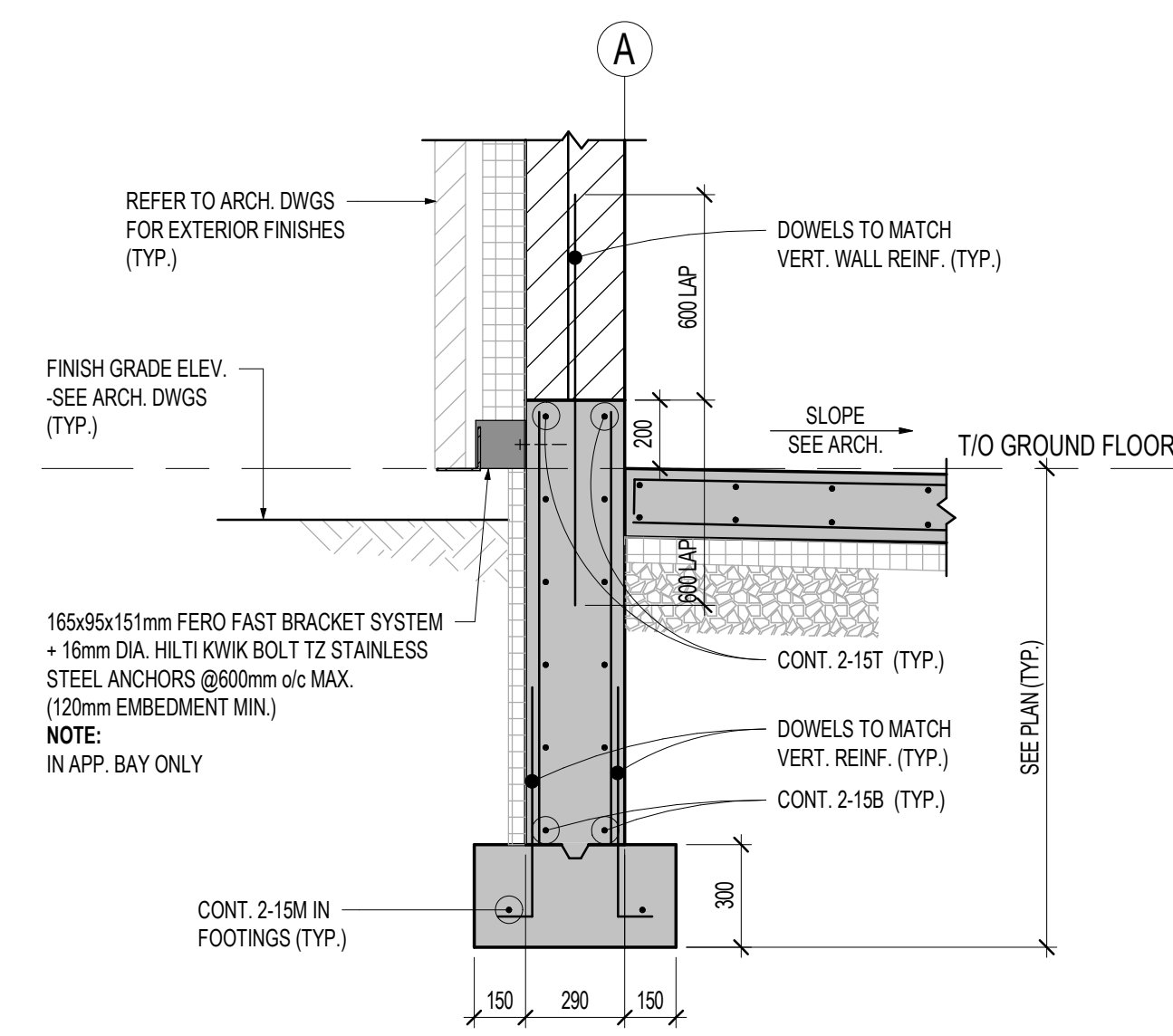
DRAWING No. S2-01 REVISION 1



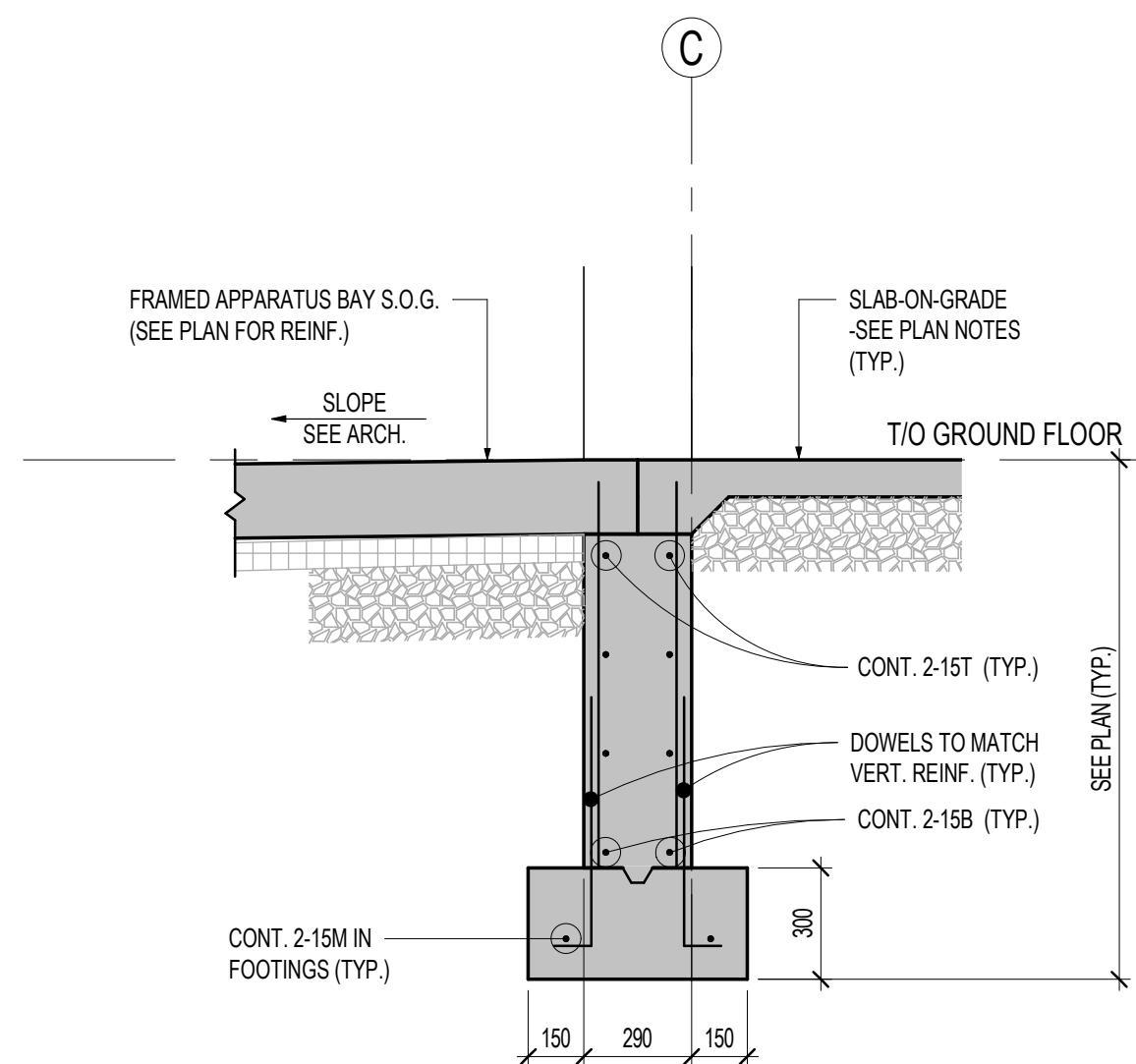
F1 SECTION  
S2-01 1:20



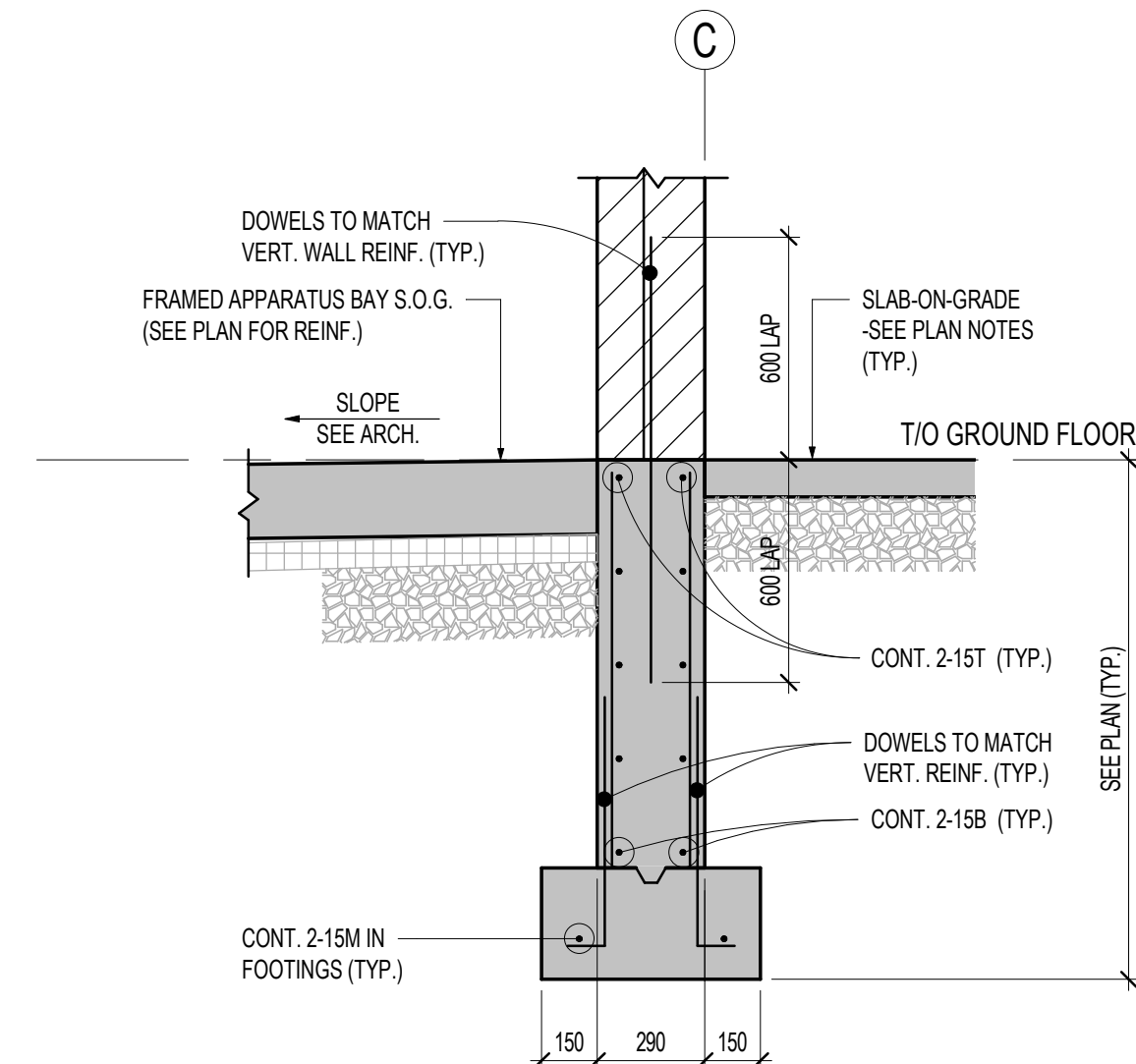
F2 SECTION  
S2-01 1:20



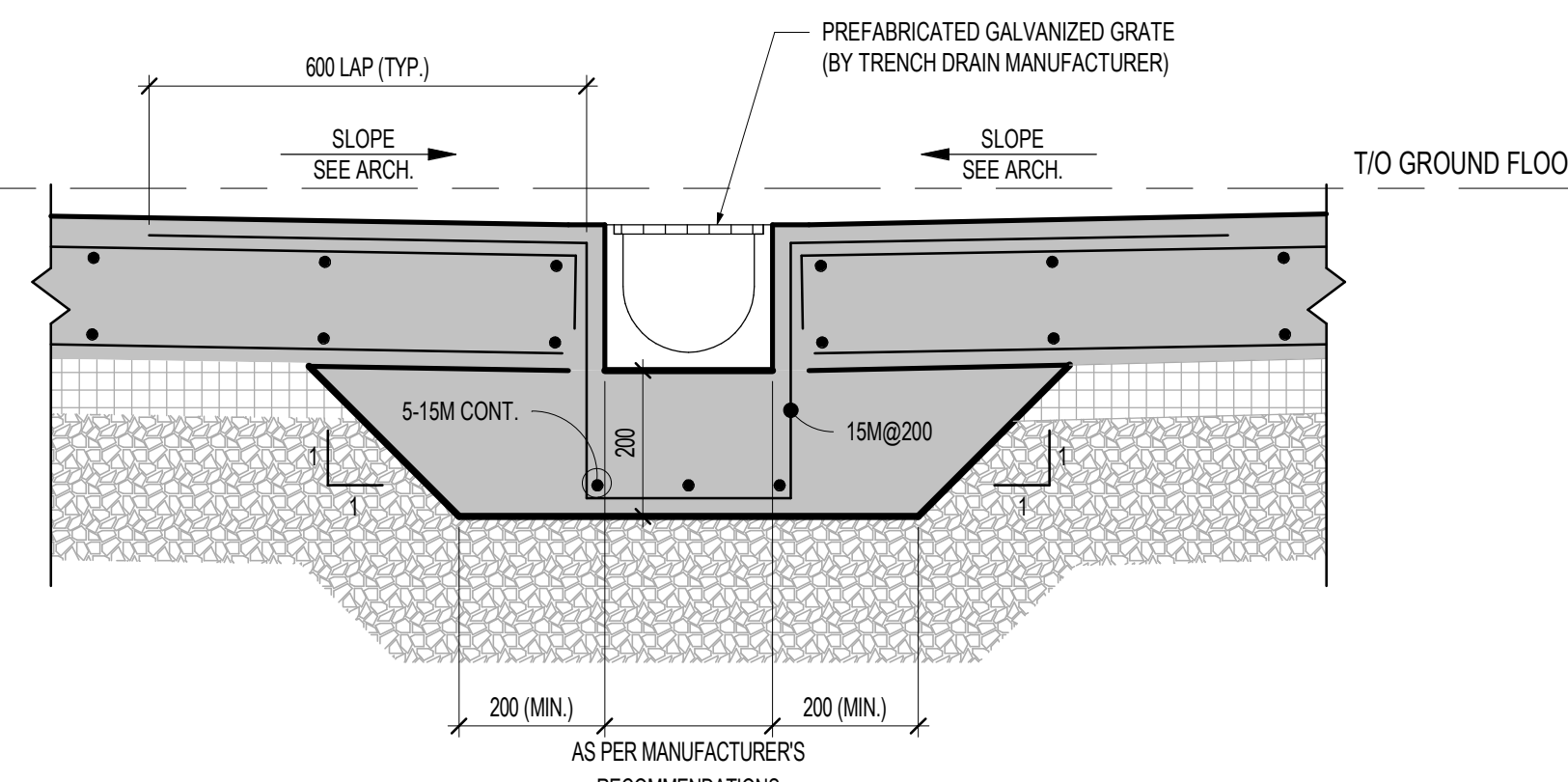
F3 SECTION  
S2-01 1:20



F4 SECTION  
S2-01 1:20

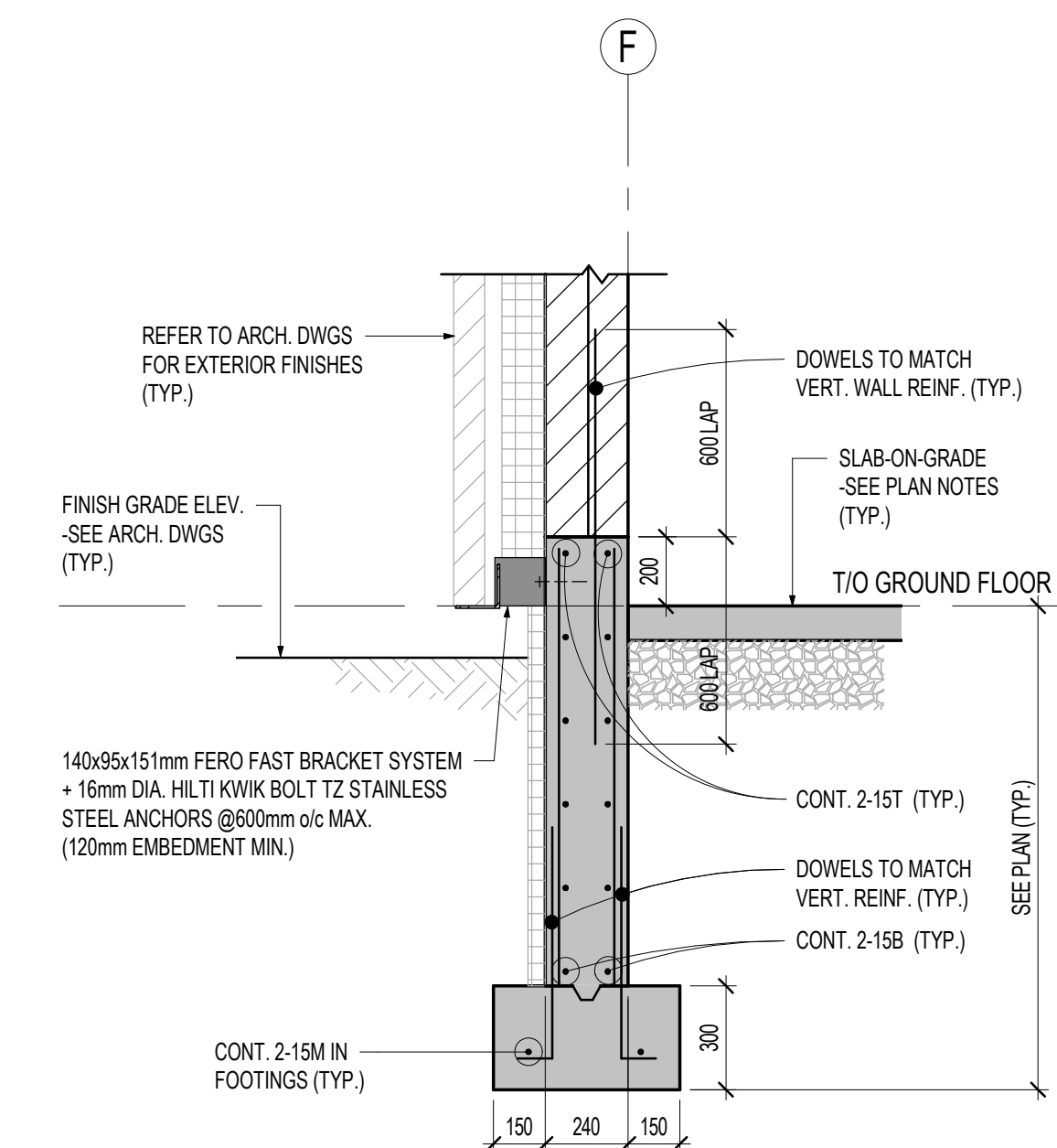


F5 SECTION  
S2-01 1:20



F6 SECTION  
S2-01 1:10

**NOTE:**  
TYPICAL FOUNDATION WALL REINFORCING  
(UNLESS NOTED OTHERWISE ON SECTIONS  
OR SHEAR WALL ELEVATIONS)  
10M @460 VEF  
10M @320 HEF  
  
FOR 190mm/200mm WALLS:  
10M @320 VERT. CENTRE OF WALL  
10M @200 HORIZ. CENTRE OF WALL



F7 SECTION  
S2-01 1:20

STEEL COLUMN SCHEDULE

US LOW ROOF DECK							
	W200x36	W200x36	W200x36	W200x36	W200x36	HSS152x152x6.4	HSS152x152x6.4
GROUND FLOOR							
US B.PL. -360 (U.N.O.)							
Column Locations	B-1	E-1	E-2	E-8	E-9	G-5	G-6

STEEL COLUMN SCHEDULE NOTES:

- FOR GRADE OF STRUCTURAL STEEL SEE GENERAL NOTES AND SPECIFICATION.
- LOADS FOR COLUMNS REPRESENT THE FACTORED LOAD IN KILONEWTONS APPLIED AT THE BASE OF THE COLUMN AND DO NOT INCLUDE THE WEIGHT OF THE FOUNDATION.
- BASE PLATE AND / OR CAP PLATE DIMENSION GIVEN LAST TO BE PARALLEL WITH COLUMN WEB.
- REFER ALSO TO TYPICAL NOTES AND DETAIL DRAWINGS.
- REFER TO STEEL COLUMN SCHEDULE FOR ANCHOR RODS AND FOR COLUMN BASE PLATE SIZES
- FOR ALL COLUMNS ABUTTING MASONRY, PROVIDE ADJUSTABLE MASONRY ANCHORS AS PER TYPICAL DETAIL. SEE TYPICAL DETAIL DRAWINGS.



ISSUE OR REVISION

NO.	ISSUED FOR	DATE
1	ISSUED FOR 90% SUBMISSION	NOV/17/2020

PROJECT : YORK REGION PRS #33

2960 TESTON ROAD, VAUGHAN

CLIENT



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



2550 Victoria Park Ave. Suite 602  
Toronto ON M2J 5A9 | Tel: (416) 435 9970  
www.stephenson-eng.com | info@stephenson-eng.com

PROFESSIONAL SEAL

DWG TITLE

ROOF SECTIONS

ORIENTATION

DATE NOV. 2020

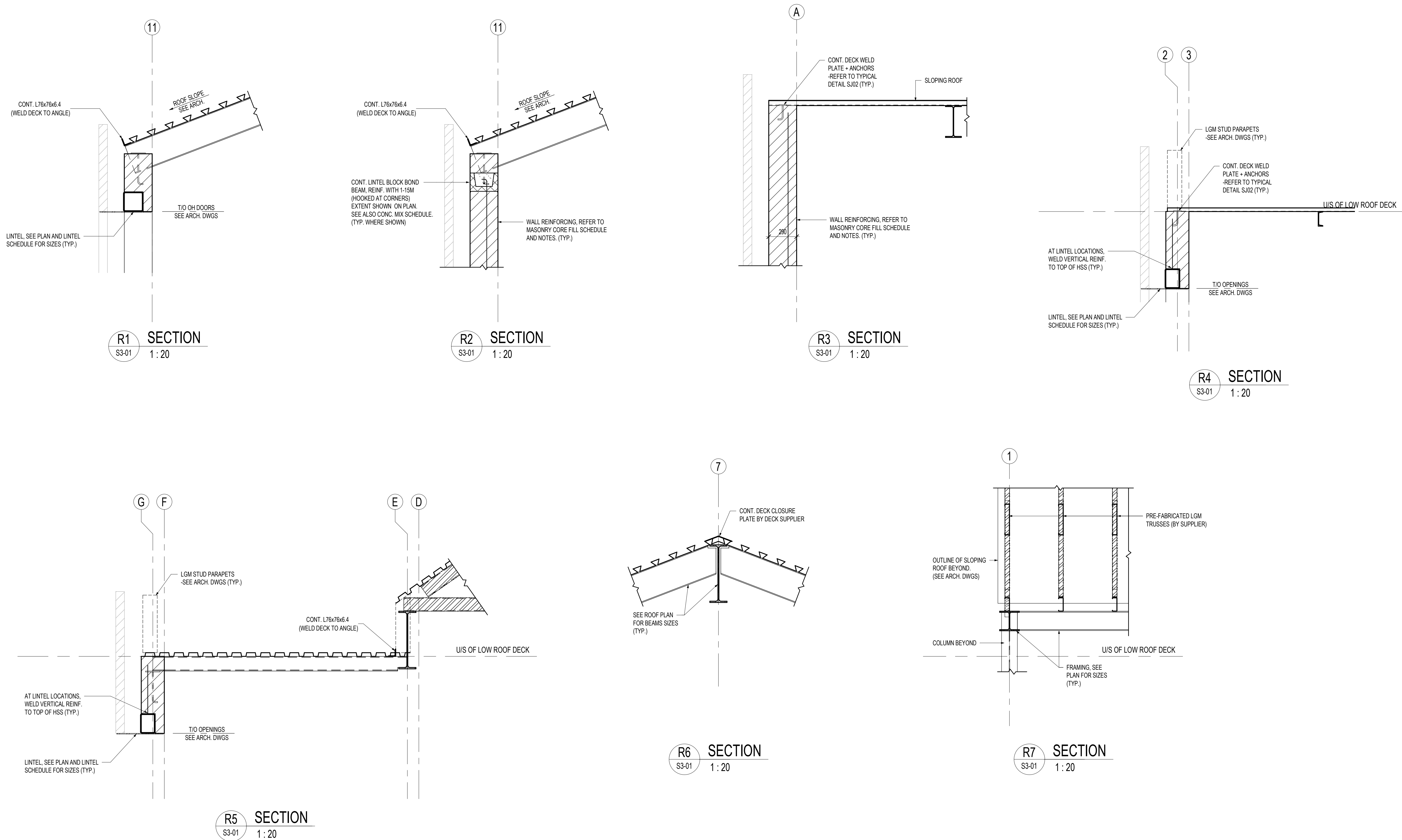
SCALE	1 : 20	DRAWN BY	AE	CHECKED BY	MM
-------	--------	----------	----	------------	----

DWG STATUS :

PROJECT No. 20190540

DRAWING No.	S3-01	REVISION	1
-------------	-------	----------	---

2020-11-17 1:12:28 PM





STANDARD ABBREVIATIONS	A01	STEEL DECK NOTES	A05	CAST-IN-PLACE CONCRETE NOTES	A03.1	CAST-IN-PLACE CONCRETE NOTES	A03.2
Ⓐ -At ADJ -Adjustable AFB -Asphalt Impregnated Fibre Board ALT -Alternate ARCH -Architectural A. ROD(A.R.) -Anchor Rod ASL -Accumulated Snow Loading  B (BOT) -Bottom BEW -Bottom Each Way BLD -Building BL -Bottom Lower Layer BLM -Beam BML -Bottom Middle Layer BNT -Base Nominal Thickness B.O.F -Bottom of Footing BP -Baseplate BSMT -Basement BUL -Bottom Upper Layer  C -Standard Channel CA -Column Above CANT -Cantilever CC (cc) -Centre to Centre CJ -Control Joint CL -Centerline COL -Column COMP -Compressible CONC -Concrete CONCT -Contraction CONST JT (CJT) -Construction Joint CONT (CONTR) -Continuous CW -Complete With  D.FIR -Douglas Fir DET -Detail DIA -Diagonal Ø (DIA) -Diameter DIM -Dimension DJ -Double Joint DL -Dead Load DO -Ditto DWG -Drawing DWL -Dowel DT -Double Tee  E-W -East-West EA -Each EE -Each EF -Each Face ELECT -Electrical ELEV (EL) -Elevation / Elevator EQ -Equal ES -Each Side EW -Each Way EXIST -Existing EXP JT -Expansion Joint EXT -Exterior  FDN -Foundation FF -Far Face FIN -Finished FL -Full FMC -Full Moment Connection FT -Foot / Feet FTG -Footing  GA -Gauge GALV -Galvanized GEN -General	H (HOR) -Horizontal HEF -Horizontal Each Face HIF -Horizontal Inside Face HOF -Horizontal Outside Face HSC -Horizontally Stiffened Connection HSS -Hollow Structural Section  IF -Inside Face INT -Interior INV -Invert  JT -Joint  kg -Kilogram kNm -Kilo Newton Metres kNm² -Kilo Newton per Square Metre kNm -Kilo Newton per Metre kPa -Kilo Pascals  L -Angle LB -Pounds LG -Long LL -Live Load / Lower Layer LLH -Long Leg Horizontal LLV -Long Leg Vertical LSSJ -Long Span Steel Joists LVL -Laminated Veneer Lumber  m -Metre MAX -Maximum MECH -Mechanical MEZZ -Mezzanine MIN -Minimum MISC -Miscellaneous ML -Middle Layer MLL -Middle Lower Layer mm -Millimetre MOM. (M) -Moment MPa -Mega Pascals MUL -Middle Upper Layer  N -Newton N-S -North-South NF -Near Face NC -Not in Contact No(R) -Number NTS -Not to Scale  OWSJ -Open Web Steel Joist  Pa -Pascal PC -Piercast PL -Plate PLF -Pounds per Lineal Foot PREL -Preliminary PROJ -Projection PSF -Pounds per Square Foot PSI -Pounds per Square Inch PSL -Parallel Strand Lumber PT -Pressure Treated  R -Reaction RAD -Radius REF -Reference REINF -Reinforcing REQD -Required REV -Revision/Revised RI -Factored Vertical Reaction RW -Reinforced With  <b>STANDARD LAP ABBREVIATIONS</b> OLS -Compression Lap Splice COL -Compression Development Length HEL -Hook Embedment Length TLS -Tension Lap Splice TDL -Tension Development Length	S -Standard Beam SOF -Step Down Footing SQL -Superimposed Dead Load SECT -Section SL -Slab SQ -Square SOG -Slab on Grade S.P.F. -Spruce/Pine/Fir SPEC -Specifications ST -Steel STD -Standard STR -Straight STRUCT -Structural  T -Top TEMP -Temperature TOS -Factored Tension Force TJ -Tie Joint TLL -Top Lower Layer TLM -Factored Torsional Moment TML -Top Middle Layer TOD, TID -Top of Deck T.O.F -Top of Footing TOS, TIS -Top of Slab TOST -Top of Steel TSF -Tons per Square Foot TUL -Top Upper Layer TYL -Typical  V (VERT) -Vertical VBF -Vertically Braced Framing VEF -Vertical Each Face VIF -Vertical Inside Face VOF -Vertical Outside Face VSC -Vertically Stiffened Connection  W -Wide Flange Beam WP -Wall Plate WWF -Welded Wide Flange Beam WWF (WWM) -Welded Wire Fabric Mesh  <b>STANDARD LAP ABBREVIATIONS</b> OLS -Compression Lap Splice COL -Compression Development Length HEL -Hook Embedment Length TLS -Tension Lap Splice TDL -Tension Development Length	1. GENERAL 1.1. DESIGN, FABRICATION, HANDLING AND ERECTION SHALL CONFORM TO THE FOLLOWING STANDARDS: 1.1.a. CSA-S16 1.1.b. CSSBI 10M _____ STANDARD FOR STEEL ROOF DECK 1.1.c. CSSBI 12M _____ STANDARD FOR COMPOSITE STEEL DECK 1.1.d. ASTM A663 _____ SPECIFICATIONS FOR STEEL SHEET, ZINC COATED (GALVANIZED) OR ZINC-IRON ALLOY COATED (GALVANEALD) BY THE HOT DIP PROCESS. 1.1.e. WELDING SHALL CONFORM TO CSA STANDARD W59 AND BE PERFORMED BY A FABRICATOR CERTIFIED TO CSA STANDARD W47.1. 1.2. THE STEEL DECK SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER, SHOP DRAWINGS AND CALCULATIONS BEARING THE STAMP AND SIGNATURE OF THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION. 1.3. NO HANGERS OR BRACKETS SHALL BE HUNG DIRECTLY FROM THE FLOOR OR ROOF DECK. ALL POINT LOADS MUST BE APPLIED DIRECTLY TO STRUCTURAL STEEL FRAMING UNLESS OTHERWISE SHOWN OR APPROVED BY THE STRUCTURAL CONSULTANT. 1.4. WHEREVER STRUCTURAL FRAMING PERMITS, STEEL DECK SHALL BE DESIGNED AND FABRICATED TO SPAN CONTINUOUSLY OVER AT LEAST 4 SUPPORTS (3 SPANS), PROVIDE AN ADEQUATE INCREASE IN THICKNESS OF METAL TO COMPENSATE FOR CONTINUITY WHEREVER FEWER SUPPORTS MAY OCCUR. END LAPS TO BE 50mm (2") MIN. AND BE LOCATED OVER SUPPORTS. 1.5. ROOF DECK SHALL BE FORMED WITH INTEGRAL RIBS IN ORDER TO SAFELY SUPPORT THE LOADS GIVEN ON THE DRAWINGS OVER THE SPANS REQUIRED. DECK THICKNESS GIVEN ON DRAWINGS IS MINIMUM ASSUMED ALLOWABLE THICKNESS AND MUST BE DESIGNED BY THE DECK SUPPLIER. 1.5.a. DEFLECTION OF ROOF DECK UNDER LIVE OR SNOW LOAD ONLY SHALL NOT EXCEED 1/300TH OF SPAN. 1.6. FLOOR DECK SHALL BE FORMED WITH INTEGRAL RIBS AND EMBOSSEMENTS FOR COMPOSITE ACTION WITH CONCRETE SLAB IN ORDER TO SAFELY SUPPORT THE LOADS GIVEN ON THE DRAWINGS OVER THE SPANS REQUIRED. IN ADDITION, THE DECK SHALL SAFELY SUPPORT ALL CONSTRUCTION LOADS WITH NO SHORING UNTIL CONCRETE IS SET. DECK THICKNESS GIVEN ON DRAWINGS IS MINIMUM ALLOWED. 1.6.a. DEFLECTION OF COMPOSITE FLOOR UNDER LIVE LOAD ONLY SHALL NOT EXCEED 1/300TH OF SPAN. 1.7. DESIGN AND DETAIL ON SHOP DRAWINGS ALL CONNECTIONS TO SUPPORTING MEMBERS FOR ALL COMBINATIONS OF DIAPHRAGM SHEAR AND UPLIFT FORCES ACTING ON THE ROOF DECK. 2. PRODUCTS 2.1. UNLESS OTHERWISE NOTED ROOF DECK AND /OR COMPOSITE DECK SHALL BE FORMED OF METALLIC COATED SHEET STEEL CONFORMING TOASTM A663/A653M, STRUCTURAL QUALITY GRADE "230" WITH A Z775 ZINC COATING. (GALVANEALD). 2.2. UNLESS OTHERWISE NOTED DECK SHALL BE SINGLE FLUTED ELEMENT WITH INTEGRAL RIBS OF DEPTH AND MIN. BASE NOMINAL THICKNESS (BNT) AS NOTED ON THE DRAWINGS. DECK SHALL HAVE INTERLOCKING SIDE JOINTS BETWEEN PANELS. (1MM, BNT, 0.70mm (0.30"). 2.3. COVER PLATES, CELL CLOSURES, FLASHINGS AND REINFORCING STIFFENERS FOR UNSUPPORTED EDGES TO BE SUPPLIED OF SIMILAR MATERIAL AND ZINC COATING TO THAT FOR DECK, UNLESS NOTED. 2.4. PRIMER PAINT TO BE ZINC RICH, READY MIX TO CAN/ CSSB-1181 FOR FIELD "TOUCH-UP" OF WELD BURNS AFTER DECK IS INSTALLED. 2.5. UNLESS OTHERWISE SHOWN FOR OPENINGS THROUGH ROOF DECK FROM 150mm to 450mm (6" TO 18") ACROSS THE FLUTES THE DECK SUPPLIER SHALL PROVIDE NOT LESS THAN A 5x167x6.4 ANGLE (2x2x2 1/4 L) REINFORCEMENT TO FRAME ACROSS EACH SIDE OF THE OPENING PERPENDICULAR TO THE FLUTES, WELDED TO AT LEAST TWO FLUTES EACH SIDE OF THE OPENING. 2.6. FOR ROOF OPENINGS OVER 450mm (18") ACROSS THE FLUTES AND FOR AREAS OF CONCENTRATED LOAD, REINFORCE IN ACCORDANCE WITH STRUCTURAL FRAMING DETAILS SHOWN ON PLANS OR TYPICAL DETAILS. 3. EXECUTION 3.1. SUPPLY AND PLACE STEEL PACKING AS REQUIRED TO PRODUCE AN EVEN BEARING PRESSURE AT SUPPORTS. 3.2. FOR STEEL ROOF DECK, UNLESS OTHERWISE DETERMINED DURING THE DIAPHRAGM AND UPLIFT CONNECTION DESIGN OR SPECIFIED OTHERWISE IN THE SPECIFICATIONS OR ENGINEERING DRAWINGS, THE MINIMUM ATTACHMENT OF THE DECK TO THE BEARING SURFACES AND THE MINIMUM SIDE LAP CONNECTIONS BETWEEN DECK UNITS SHALL BE: 3.2.A. FOR 30mm DEEP DECK PROFILES, CONNECT THE FIRST, THIRD, FIFTH AND SEVENTH LOW CORRUGATIONS (364 CONFIGURATION), AND EACH SUPPORT PARALLEL TO FLUTE DIRECTION AT 300mm (12") MAXIMUM CENTERS. CONNECTIONS SHALL BE MADE USING EITHER AN ARC SPOT WELD WITH 20mm (3/4") NOMINAL TOP DIAMETER, OR MECHANICALLY FASTENED USING HILT POWDER ACTUATED FASTENERS (X-HS24, HILTI X-EMF19, OR EQUIVALENT). 3.2.B. FOR 76mm DEEP DECK PROFILES, CONNECT THE FIRST, THIRD AND FIFTH LOW CORRUGATIONS (243 CONFIGURATION), AND EACH SUPPORT PARALLEL TO FLUTE DIRECTION AT 300mm (12") MAXIMUM CENTERS. CONNECTIONS SHALL BE MADE USING EITHER AN ARC SPOT WELD WITH 20mm (3/4") NOMINAL TOP DIAMETER, OR MECHANICALLY FASTENED USING HILTI POWDER ACTUATED FASTENERS (X-HS24, HILTI X-EMF19, OR EQUIVALENT). 3.2.C. FOR ROOF DECKS, SIDE LAPS OF ADJACENT NESTABLE UNITS SHALL BE CRIMPED TOGETHER AT 900mm (36") CENTRES, OR FASTENED WITH HILTI M-HM SCREWS (SLO1, SLO2, OR EQUIVALENT). 3.3. FOR STEEL FLOOR DECK, UNLESS OTHERWISE DETERMINED DURING THE DIAPHRAGM CONNECTION DESIGN OR SPECIFIED OTHERWISE IN THE SPECIFICATIONS OR ENGINEERING DRAWINGS, THE MINIMUM ATTACHMENT OF THE DECK TO THE BEARING SURFACES AND THE MINIMUM SIDE LAP CONNECTIONS BETWEEN DECK UNITS SHALL BE: 3.3.A. SIDE LAPS OF ADJACENT FLOOR UNITS SHALL BE CRIMPED TOGETHER AT 600mm (24") MAXIMUM ON CENTRE, BUT NOT EXCEEDING THE SPACING REQUIRED FOR THE APPLICABLE ULC FIRE RATED ASSEMBLY. 3.3.B. DECK SUPPORTS PARALLEL AND PERPENDICULAR TO FLUTES SHALL BE WELDED WITH 20mm (3/4") WELDS AT 300mm (12") MAXIMUM SPACING, BUT NOT EXCEEDING THE SPACING REQUIRED FOR THE APPLICABLE ULC FIRE RATED ASSEMBLY. 3.3.C. THE REQUIRED PUDDLE WELDS AT SUPPORTS MAY BE SUBSTITUTED WITH POWDER ACTUATED FASTENERS THAT PROVIDE EQUIVALENT DIAPHRAGM SHEAR CAPACITY PER METRE. 3.4. INSTALL ALL POWDER FASTENERS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. 3.5. WELD STUD SHEAR CONNECTORS THROUGH DECK WHERE REQUIRED BY DRAWINGS. 3.6. "TOUCH-UP" GALVANIZED OR GALVANEALD SURFACES WITH SPECIFIED PRIMER AT WELDS AND SCRAPES, ETC., BOTH UPPER AND LOWER SURFACES. 3.7. DO NOT SUSPEND CEILING OR MECHANICAL/ELECTRICAL SERVICES FROM US OF STEEL DECK. 4. QUALITY CONTROL 4.1. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO BE ENGAGED TO CARRY OUT AND REPORT ON THE FOLLOWING INSPECTION SERVICES: 4.1.a. SECTION PROFILE, GAUGE AND STEEL GRADE. 4.1.b. ZINC COATING. 4.1.c. WELDED JOINTS. 4.1.d. BEARINGS. 4.1.e. SIDE LAP CONNECTIONS. 4.1.f. TOUCH-UP PRIMER. 4.1.g. FIELD CUTTING AND/OR ALTERATIONS. 4.2. REFER ALSO TO THE GENERAL NOTES, SPECIFICATIONS, AND TERMS OF REFERENCE FOR ADDITIONAL INFORMATION.	1. GENERAL 1.1. PROVIDE ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO CARRY OUT THE WORK. 1.2. REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND SCHEDULES, TYPICAL DETAILS AND SPECIFICATION. 2. PRODUCTS 2.1. PORTLAND CEMENT, WATER AND AGGREGATES SHALL CONFORM TO CSA STANDARD A23.1. 2.2. PROVIDE AN APPROVED WATER REDUCING ADDITIVE IN ALL CONCRETE. PROVIDE AN APPROVED AIR ENTRAINING ADDITIVE IN ALL CONCRETE WHICH WILL BE EXPOSED TO A FREEZE/THAW CYCLE AND/OR THE ACTION OF ICE-ING SALT. ADMIXTURES SHALL CONFORM TO CSA STANDARD A23.1. 2.3. FORMWORK SHALL CONFORM TO CSA STANDARD A23.1 AND CSA STANDARD S289.1 AND FALSEWORK SHALL CONFORM TO CSA S289.1. 2.4. IF SO INSTRUCTED, THE DESIGNS FOR THE FORMWORK SHALL BE SUBMITTED FOR REVIEW BEFORE CONSTRUCTION. FORMWORK DRAWINGS AND DESIGN SHALL BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER. 2.5. PROVIDE SLAB AND BEAM FORMS WITH AN UPWARD CURVE AS INDICATED ON PLANS THIS "C" WHERE CAMBERS ARE NOT NOTED ON PLANS, CAMBER SLABS AND BEAMS FOR SPAN(S) AT INTERIOR BAYS, AND CANTILEVER LENGTH 7/250 AT CANTILEVER, CAMBER BOTH THE UNDERSIDE AND TOP OF CONCRETE IN A PARABOLIC PROFILE, WHILE MAINTAINING THE INDICATED STRUCTURAL THICKNESS OF MEMBERS. 2.6. PROVIDE STANDARD ADJUSTABLE MASONRY ANCHOR SLOTS FOR ALL OTHER MASONRY FACING OR ABUTTING CONCRETE FACES. 2.7. PROVIDE AND/OR INSTALL STANDARD ADJUSTABLE INSERTS AND ALL OTHER CAST-IN INSERTS AS REQUIRED BY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATION. 2.8. REINFORCING STEEL UNLESS SPECIFICALLY NOTED, SHALL BE DEFORMED BARS CONFORMING TO CAN/CSA -G30.18-M GRADE 400 (\$8000 PSI). 2.9. WELDED WIRE FABRIC TO BE SUPPLIED IN FLAT SHEETS ONLY, UNLESS APPROVED OTHERWISE. 2.10. REINFORCING SHALL BE DETAILED, BENT, PLACED AND SUPPORTED TO CONFORM TO ACI DETAILING MANUAL AND THE MANUAL OF STANDARD PRACTICE PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF CANADA. 2.11. DRY-PACK GROUT TO BE 1 PART PORTLAND CEMENT TO 1 1/2 PARTS SAND TO 2 PARTS OF 8 mm pea GRAVEL WITH ONLY SUFFICIENT WATER TO DAMPER MOTURE. COMPRESSIVE STRENGTH 5MPa at 28 DAYS. 2.12. NON-SHRINK GROUT TO BE AN APPROVED, PRE-MIXED PROPRIETARY PRODUCT. 2.13. PROVIDE APPROVED EXTRUDED PVC WATERSTOPS OF SIZE AND STYLE INDICATED, WITH PRE-WELDED CORNERS AND INTERSECTIONS. SEE ALSO TYPICAL DETAILS. 2.14. CURING AND SEALING COMPOUNDS WHERE APPROVED FOR USE TO CONFORM TO ASTM STANDARD C309. GENERALLY ALL CONCRETE SURFACES ARE TO BE SEALED UNLESS NOTED OTHERWISE. COMPOUNDS ARE TO BE APPLIED WITH SMOOTH FINISHES. 2.15. SHEAR REINFORCEMENT AT SLAB CONNECTIONS AS SHOWN ON DRAWINGS AND DETAILS. SHALL BE STUDS AS MANUFACTURED BY DECON. THE COMPLETE AND FINISHED STUDS SHALL BE ICC EES EVALUATED AND WELDING SHALL TAKE PLACE IN A ICC ES APPROVED AND AUDITED FACILITY. STUDS SHALL CONFORM TO THE LATEST EDITION OF ASTM A1004. 3. EXECUTION 3.1. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE @ 28 DAYS SHALL BE AS NOTED ON THE DRAWINGS (20MPa MINIMUM). 3.2. SLUMP AT THE POINT OF DISCHARGE SHALL BE CONSISTENT AT 80 mm +30mm (3" ± 18") UNLESS NOTED OTHERWISE. GREATER SLUMPS ARE NOT ACCEPTABLE. 3.3. CONCRETE MIXING, TRANSPORTATION, HANDLING AND PLACING SHALL CONFORM TO CSA STANDARD A23.1. 3.4. CONSTRUCTION JOINTS FOR WALLS ARE BASED UPON VERTICAL JOINTS AT A MAXIMUM SPACING OF 1000mm (30'-0"). UNLESS CONTROL JOINTS ARE PROVIDED AS PER DETAIL CFWO2. TOTAL LENGTH OF JOINT TO BE DISCUSSED WITH ENGINEER PRIOR TO PROCEEDING. 3.5. CONSTRUCTION JOINTS FOR WALLS, SLABS, AND BEAMS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE CONSTRUCTION. GENERALLY JOINTS IN SLABS SHALL BE AT RIGHT ANGLES TO THE SPANS, AT MID-SPAN IF POSSIBLE AND BE CLEAR OF SUPPORTS AND POINT LOADS. 3.6. INSERTS, FRAME-OUTS, SLEEVES, BRACKETS, CONDUITS AND FASTENING DEVICES, SHALL BE INSTALLED AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS IN A MANNER THAT SHALL NOT IMPAIR THE STRUCTURAL STRENGTH OF THE SYSTEM, BE SO INSTALLED THAT THEY SHALL NOT REQUIRE THE CUTTING, BENDING, OR DISPLACEMENT OF THE REINFORCING OTHER THAN AS SHOWN ON THE TYPICAL DETAILS. 3.7. ELECTRICAL CONDUIT SHALL NOT PASS THROUGH COLUMN, SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 13 SLAB THICKNESS OR WALL OR BEAM IN WHICH IT IS EMBEDDED. SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTRE UNLESS APPROVED, AND HAVE A MINIMUM CONCRETE COVER OF 25 mm (1") AND UNLESS SPECIFICALLY PERMITTED OTHERWISE, SHALL NOT RUN HORIZONTALLY IN A CONCRETE WALL. 3.8. OPENINGS AND DRIVEN FASTENERS REQUIRED IN THE CONCRETE AFTER THE CONCRETE IS PLACED SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE PROCEEDING. 3.9. FINISHING, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FINISH TO EXPOSED CONCRETE. ALL HONEYCOMBS SHALL BE CUT OUT AND FILLED. FLOOR FINISHES SHALL BE AS REQUIRED BY THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND SHALL CONFORM TO CSA STANDARD A23.1. 3.10. TOLERANCES FOR PLACING STRUCTURAL CONCRETE, REINFORCING STEEL, CAST-IN HARDWARE AND FOR FLOOR AND ROOF FINISHES SHALL BE AS SPECIFIED IN CSA STANDARD A23.1. 3.11. MINIMUM REINFORCING FOR ANY CONCRETE WALL TO BE AS SHOWN ON TYPICAL DETAIL FOR CONCRETE WALLS. 3.12. MINIMUM REINFORCING FOR ANY SUSPENDED SLAB SHALL BE TEMPERATURE BARS BOTTOM EACH WAY PLUS 10M @ 400 (16") DOWELS 600x600 (2'-0" x 2'-0") TOP AROUND PERIMETER, REFER TO TYPICAL DETAIL OF ONE WAY SLABS. 3.13. PERFORM SURVEYS OF SLABS AS INDICATED IN SPECIFICATIONS.	3.14. GENERAL REQUIREMENTS FOR CUTTING AND DRILLING INTO CONCRETE (A) DO NOT DRILL INTO, CORE THROUGH, SAW-CUT OR CHIP THE CONCRETE STRUCTURE WITHOUT WRITTEN AUTHORIZATION BY THE STRUCTURAL CONSULTANT. (B) UNLESS NOTED OTHERWISE, PRIOR TO CUTTING, CORING OR DRILLING INTO THE CONCRETE STRUCTURE, LOCATE EXISTING CONCRETE REINFORCEMENT AND EMBEDDED SERVICES, AT THAT LOCATION USING SUITABLE SCANNING DEVICE (I.E. X-RAYS, GROUND PENETRATION RADAR (GPR), LOCAL CHIPPING OF SLAB - ONLY WHERE APPROVED BY THE STRUCTURAL CONSULTANT, ETC.), AS AUTHORIZED BY PROPERTY MANAGER IF APPLICABLE. (C) GPR SCANNING MUST BE DONE BY TRAINED TECHNICIANS WITH AT LEAST 5 YEARS OF EXPERIENCE AS SUCH. (D) GPR SCANNING DEVICES MUST BE CAPABLE OF ACCURATELY LOCATING REBAR IN A CONCRETE SLAB TO A MINIMUM DEPTH OF 300 mm WITHIN A HORIZONTAL TOLERANCE OF + - 25 mm AND A VERTICAL (DEPTH) TOLERANCE OF THE LARGER OF + - 25 mm OR + - 15% OF THE REBAR DEPTH. (E) AFTER ALL THE EXISTING REINFORCEMENT AND SERVICES HAVE BEEN LOCATED, NOTIFY THE STRUCTURAL CONSULTANT, WHO WILL REVIEW AND APPROVE THE PROPOSED LOCATION OF OPENINGS, CORES OR DRILLED HOLES. MAKE ANY NECESSARY ADJUSTMENTS TO THE HOLE LOCATIONS AS DIRECTED BY THE STRUCTURAL CONSULTANT. (F) THE REVIEW BY THE STRUCTURAL CONSULTANT IS LIMITED ONLY TO THE LOCATION OF THE PROPOSED CORES OR DRILLED HOLES THROUGH THE EXISTING STRUCTURE AND IT IS BASED ON THE ASSUMPTION THAT THE X-RAY OR SCAN RESULTS LOCATING SLAB REINFORCEMENT AND EMBEDDED SERVICES ARE COMPLETE AND ACCURATE. STEPHENSON ENGINEERING LTD. TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE X-RAY OR SCAN RESULTS. (G) CORE DRILL NEW HOLES FOR PIPES TO A DIAMETER NOT LARGER THAN THE OUTSIDE PIPE DIAMETER PLUS 25MM. DO NOT CUT EXISTING REINFORCEMENT OR SERVICES WITHOUT PRIOR APPROVAL OF THE CONSULTANT. (H) WHERE RECTANGULAR OPENINGS ARE TO BE CUT, PRE-DRILL THE CORNERS USING A 100 MM DIAMETER CORE DRILL OR DRILL A SERIES OF HOLES TO PREVENT OVER CUTTING OF THE CORNERS.  4. QUALITY CONTROL 4.1 FOR INSPECTION AND TESTING. SEE GENERAL NOTES AND/OR SPECIFICATION.	INTEL NOTES A07 UNLESS OTHERWISE SHOWN OR NOTED ON THE STRUCTURAL DRAWINGS, PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS, AS FOLLOWS: 1. FOR OPENINGS UP TO 1200 mm (4'-0") CLEAR: 1.1. ONE ANGLE 90 x 90 x 6 (3 1/2" x 3 1/2" x 1/4") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF, OR 1.2. 200mm (8") DEEP MASONRY Lintel BLOCK REINFORCED WITH 1-0M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF. 2. FOR OPENINGS FROM 1200mm (4'-0") CLEAR TO 1800mm (6'-0") CLEAR: 2.1. ONE ANGLE 125 x 90 x 8 LONG LEG VERTICAL (5'x 3 1/2" x 5/16") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF, OR 2.2. 220mm (8") DEEP MASONRY Lintel BLOCK REINFORCED WITH 1-15M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF. 3. ALL LINTELS TO BEAR 150mm (6") MINIMUM AT EACH END ON SOLID MASONRY, UNLESS SHOWN OTHERWISE. 4. PAIRS OF LINTEL, END BEARING OR WELDED TOGETHER, PRIOR TO SHIMMENT, AT MAXIMUM 450mm (18") CENTRES. 5. MASONRY Lintel BLOCKS MAY ONLY BE USED IN LOAD-BEARING WALLS WITH PERMISSION AND MUST BE FILLED WITH 20 MPa CONCRETE. MORTAR IS NOT ACCEPTABLE AND WILL BE REJECTED. 6. STEEL LINTELS ARE TO BE SUPPLIED BY STEEL CONTRACTOR BUT PLACED BY GENERAL CONTRACTOR OR MASONRY SUB- CONTRACTOR. 7. STEEL CONTRACTOR TO SUPPLY ALL NECESSARY DIRECTIONS REQUIRED FOR PLACING STEEL LINTELS. 8. WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ON THE STRUCTURAL DRAWINGS EACH AND EVERY Lintel, OVER DOORS, MECHANICAL AND ELECTRICAL SERVICES, RECESSES AND POCKETS ETC., THROUGH LOAD-BEARING MASONRY WALLS, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE AND SUPPLY ALL LINTELS REQUIRED THROUGH ALL WALLS (INCLUDING NON-LOAD BEARING WALLS) THROUGHOUT THE PROJECT, UNLESS OTHERWISE DIRECTED. LINTELS SHALL CONFORM TO THE ABOVE REQUIREMENTS. 9. REFER ALSO TO TYPICAL DETAILS.	STRUCTURAL STEEL NOTES A04A 1. GENERAL 1.1. STRUCTURAL STEEL DESIGN DETAILS AND CONNECTIONS SHALL CONFORM TO CSA STANDARD S16 AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER EXPERIENCED IN THIS TYPE OF WORK. 1.2. REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND TO THE SPECIFICATION. 1.3. WELDING SHALL CONFORM TO CSA STANDARD W59 AND BE PERFORMED BY A FABRICATOR CERTIFIED TO CSA W47.1. 1.4. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF FACTORED VERTICAL SHEAR FORCE OF 50% OF THE BEAM SHEAR CAPACITY, UNLESS OTHERWISE NOTED, AND IN NO CASE BE LESS THAN THE LOADS SHOWN ON OR IMPLIED BY THE DRAWINGS, WHERE BOLTED CONNECTIONS ARE TWO BOLTED, A MINIMUM OF TWO BOLTS PER CONNECTION SHALL BE USED. 1.5. MEMBER CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER FOR FORCES AND MOMENTS INDICATED. SHOP DRAWINGS (AND CALCULATIONS) BEARING THE STAMP AND SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION. 2. PRODUCTS 2.1. STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA-G40.20/G40.21 2.1.1. S SHAPES, PLATES AND RODS - GRADE 300 W 2.1.2. HSS SECTIONS - GRADE 350W (CLASS C UN) 2.1.3. WWF SHAPES, WT SHAPES AND W SHAPES, CHANNELS, ANGLES - GRADE 350W 2.2. BOLTS FOR CONNECTIONS TO CONFORM TO ASTM F1554/F1554M, GRADE A325, UNLESS NOTED. 2.3. ANCHOR RODS FOR BASE PLATES, BEARING PLATES AND WELD PLATES TO CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED. 2.4. NUTS AND WASHERS TO CONFORM TO ASTM A563 AND ASTM A563B. 2.5. SHEAR STUDS WHERE REQUIRED TO CONFORM TO ASTM A108, WELDING TO CONFORM TO CSA W59. 2.6. WELDING MATERIALS TO CONFORM TO CSA W48. 2.7. SURFACE PREPARATION AND PRIMER PAINT FOR STRUCTURAL STEEL MEMBERS INSIDE VAPOUR BARRIER TO CONFORM TO CISC/CPMA 1.73a OR CISC/CPMA 2.75 (IF EXPPOSED TO WIND, UNLESS NOTED ON DRAWINGS OR SPECIFICATIONS). 2.8. HOT DIP GALVANIZING WITH A MINIMUM ZINC COATING OF 800g/m² (16 UNLESS OTHERWISE SPECIFIED). 3. EXECUTION 3.1. FABRICATION, HANDLING AND ERECTION TO CONFORM TO CAN/CSA - S16. 3.2. PROVIDE A MINIMUM OF 2-12 mm (1/2") DIAMETER BY 250 (10") LONG WALL ANCHORS FOR ALL BEAM AND JOIST WALL PLATES ON MASONRY, OR AN APPROVED EQUAL, UNLESS OTHERWISE NOTED. BEAMS AND JOIST SHOES TO BE WELDED TO BEARING PLATES. 3.3. PROVIDE ADJUSTABLE ANCHORS TO ALL STEEL TO BE BUILT INTO, ABUTTED BY, OR FACED WITH MASONRY (REFER ALSO TO TYPICAL DETAILS IF SHOWN). SPACING OF ANCHORS TO BE: FOR VERTICAL SPACING _____ 600 (24") MAX. CENTRES FOR HORIZONTAL SPACING _____ 10 TIMES WALL THICKNESS* (MAX. 2000 (6'-8") CENTRES) (* NOTE: USE BACK-UP WYTHE THICKNESS ONLY, FOR CAVITY WALLS.) 3.4. WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY (I.E. DOES NOT SUPPORT MASONRY) ANCHORS SHALL PERMIT DIFFERENTIAL VERTICAL MOVEMENT BETWEEN STRUCTURAL MEMBERS AND MASONRY. 3.5. PROVIDE 1:10:10 MINIMUM ANGLE SEATS FOR ALL STEEL DECK AT LOCATIONS WHERE THE CONNECTION TO SUPPORTING FRAMING IS INTERRUPTED, I.E.G. AT COLUMNS) 3.6. CLEAN, PREPARE SURFACES AND SHOP PRIME STRUCTURAL STEEL WITH ONE COAT OF SPECIFIED PRIMER PAINT IN ACCORDANCE WITH CAN/CSA -S16, EXCEPT WHERE MEMBERS ARE TO BE ENCASED IN CONCRETE, OR TO RECEIVE SPRAY APPLIED FIRE PROOFING. FIELD "TOUCH-UP" BOLTS, WELDS, BURNED OR SCRAPED SURFACES AFTER ERECTION. 3.7. FOR WELDING, INSPECTORS ARE TO BE CERTIFIED BY THE CANADIAN WELDING BUREAU. 3.8. CO-ORDINATE WITH MECHANICAL AND ELECTRICAL CONSULTANTS AND SUB-TRADES WHOSE WORK MAY AFFECT DETAILING, FABRICATION AND ERECTION OF THE STEEL STRUCTURE. 3.9. TOLERANCES: VARIATION FROM PLUMB AND LEVEL EXTERIOR COLUMNS, COLUMNS AT ELEVATOR SHAFTS, AND SPANDREL BEAMS INCLUDING ANGLES _____ 1:1000 (1/8" IN 10'-0" MAX. 1") OTHER PIECES _____ 1:500 (1/4" IN 10'-0") 3.10. NO HOLES OTHER THAN THOSE SHOWN ON REVIEWED SHOP DRAWINGS SHALL BE MADE IN ANY STEEL MEMBER WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL CONSULTANT. 4. QUALITY CONTROL 4.1. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES, AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. 4.2. SEE SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS.

LOAD BEARING MASONRY NOTES	A06	LOAD BEARING MASONRY NOTES	A06
1. GENERAL 1.1. UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS, THE FOLLOWING INDICATES THE MINIMUM REQUIREMENTS APPLICABLE TO STRUCTURAL LOAD BEARING MASONRY. 1.2. REFER ALSO TO ARCHITECTURAL DRAWINGS AND /OR THE SPECIFICATION FOR REQUIREMENTS OTHER THAN STRUCTURAL, AND FOR NON-LOAD BEARING WALLS AND PARTITIONS. 1.3. MASONRY CONSTRUCTION TO CONFORM TO CSA STANDARD S304.1. 2. PRODUCTS 2.1. CONCRETE BLOCKS TO BE MODULAR UNITS AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND /OR SPECIFICATION, AND UNLESS OTHERWISE NOTED SHALL BE: 2.1.1. FOR BELOW GRADE AND EXTERIOR EXPOSED WALLS USE NORMAL WEIGHT LOAD BEARING UNITS: STANDARD HOLLOW: _____ TYPE H / 15 / A / M. 75% SOLID: _____ TYPE S / 15 / A / M. 100% SOLID: _____ TYPE S / 15 / A / M. 2.1.2. FOR INTERIOR ABOVE GRADE WALLS USE EITHER: 2.1.2.1. LIGHTWEIGHT LOAD BEARING BLOCKS: STANDARD HOLLOW: _____ TYPE H / 15 / C / M. 75% AND 100% SOLID: _____ TYPE S / 15 / C / M. 2.1.2.2. ULTRA LIGHT (OR EQUIVALENT) BLOCKS: STANDARD HOLLOW: _____ TYPE H / 15 / D / M. (REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR LOCATIONS AND TYPES). 2.2. CLAY BRICKS: TO CONFORM TO ONE OR MORE OF CSA STANDARDS A82 (SERIES) SEE ARCHITECTURAL DRAWINGS AND /OR SPECIFICATIONS FOR TYPES AND STYLES OF BRICKS REQUIRED. UNLESS OTHERWISE NOTED, THE MINIMUM COMPRESSIVE STRENGTH (BRICK FLATWISE) GROSS AREA SHALL BE 20 MPa. 2.3. MORTAR: TO CONFORM TO CSA A179 FOR LAYING ALL LOAD BEARING CONCRETE BLOCKS _____ USE TYPE "S" MORTAR UNLESS NOTED. FOR LAYING ALL CLAY BRICKS _____ USE TYPE "N" MORTAR UNLESS NOTED. 2.4. MASONRY GROUT: TO CONFORM TO CSA A179. THE SLUMP SHALL BE 200mm TO 250mm (8"TO 10") AND THE MINIMUM 28 DAY COMPRESSIVE STRENGTH FOR "FINE" GROUT SHALL BE 15MPa. 2.5. MASONRY CONNECTORS (ANCHORS, FASTENERS AND TIES): SHALL CONFORM TO CSA A370, AND BE INSTALLED TO COMPLY WITH CSA A371. SPACING, STRENGTH AND GALVANIZING OF STRAP TIES, DOWEL ANCHORS, ROD ANCHORS, ROD ANCHORS, STRAP ANCHORS, WALL AND PARTITION ANCHORS SHALL COMPLY WITH CSA A370. SHALL BE PROVIDED. SEE ARCHITECTURAL DRAWINGS AND/OR SPECIFICATION FOR DETAILS.	A06	26. HORIZONTAL JOINT REINFORCEMENT FOR ALL MASONRY WALLS: THE FOLLOWING ARE MINIMUM REQUIREMENTS: 26.1. CONFORM TO CSA STANDARDS A370 AND A371. 26.2. REINFORCEMENT SHALL BE AN APPROVED CONTINUOUS "LADDER" TYPE, PREFABRICATED WITH 3.66mm DIAMETER (9 GAUGE) LONGITUDINAL AND CROSS WIRES. 26.3. SPACING: PROVIDE REINFORCING IN THE TOP COURSE IMMEDIATELY BELOW FLOOR AND ROOF BEARING LEVELS AND THE FIRST TWO COURSES ABOVE AND BELOW every wall opening. THE REINFORCING SHALL EXTEND 900mm (24") BEYOND SUCH OPENINGS. FOR THE REMAINDER OF WALLS, THE VERTICAL SPACING SHALL NOT EXCEED 400mm (16"). 26.4. OVERLAP SPLICES: SHALL BE A MIN. OF 150mm (6") FOR KNULED WIRE AND 300mm (12") FOR PLAIN WIRE. LAPS SHALL BE STAGGERED A MINIMUM OF 750mm (30") FROM COURSE TO COURSE. REINFORCING SHALL NOT PASS THROUGH A VERTICAL CONTROL JOINT UNLESS OTHERWISE SHOWN. 26.5. CORROSION RESISTANCE: JOINT REINFORCING FOR ALL WALLS IN CONTACT WITH SOIL, EXTERIOR WALLS AND WALLS IN A MOIST ENVIRONMENT SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION TO ASTM A153,458 g/m/sq.meter (1.5 oz. / sq. foot). 26.6. COMPOSITE AND CAVITY WALLS: WHERE DRAINING OF WYTHES DO NOT ALIGN OF WHERE IT IS DESIRABLE AND PERMITTED TO BUILD ONE WYTHE BEFORE THE OTHER, REINFORCING SHALL BE AN APPROVED ADJUSTABLE TYPE WITH A BOX OR EYE SECTION WHICH EXTENDS INTO THE COLLAR JOINT OR CAVITY AND RESTRAINS THE TRANSVERSE MOVEMENT OF THE TWO WYTHES. FOR CAVITY WALLS WITH RIGID INSULATION, EXTENSION SHALL BE DESIGNED TO HOLD THE INSULATION IN PLACE BY USE OF PLASTIC WEDGES OR APPROVED EQUAL. GALVANIZED HOOK STYLE "BOX TIES" OR "PIN TIES" SHALL EXTEND INTO THE FACE WYTHE TO COMPLETE THE ASSEMBLY. 26.7. PROVIDE ALL PREFABRICATED CORNER AND TEE SECTIONS. 27. JOINT WALLS: SHALL HAVE THE VERTICAL COLLAR JOINTS BETWEEN WYTHES COMPLETELY FILLED WITH MORTAR OR GROUT. 28. BOND BEAMS: MADE FROM LINTEL BLOCKS, OR HALF WEB BLOCKS, WHERE SHOWN ON STRUCTURAL DRAWING SHALL CONFORM TO CSA A371. 29. GROUTING: BY FILLING VOIDS OF HOLLOW UNITS AND REINFORCED HOLLOW UNITS SHALL CONFORM TO CSA A179 (MORTAR IS NOT ACCEPTABLE). 2.10. EXPANSION AND CONTROL JOINTS: SHALL BE PROVIDED. SEE ARCHITECTURAL DRAWINGS AND/ OR SPECIFICATION FOR DETAILS. 3. EXECUTION 3.1. BEARING ON MASONRY: 3.1.1. MINIMUM BEARING ON MASONRY UNLESS OTHERWISE NOTED:- BEAMS (STEEL, CONC., WOOD) _____ 200mm (8") NOMINAL LINTELS (STEEL, CONC., WOOD) _____ 150mm (6") NOMINAL JOISTS (STEEL, WOOD) _____ 150mm (6") NOMINAL SLABS (CAST-IN-PLACE, PRECAST) _____ 100mm (4") NOMINAL STEEL DECKING (ON WELD PLATE) _____ 100mm (4") NOMINAL 3.1.2. MASONRY BEARINGS SHALL BE OF SOLID BLOCKS (OR GROUTED SOLID) OR BRICKS LAID IN MORTAR. ALL JOINTS ARE TO BE FULLY FILLED WITH TYPE "S" MORTAR. 3.1.3. MIN. SIZE OF SOLID BEARINGS AT BEAMS AND LINTELS UNLESS NOTED SHALL BE EQUAL TO TWICE THE BEARING / WALL PLATE (WP) LENGTH AND FOR A DEPTH EQUAL TO THE BEARING / WALL PLATE (WP) LENGTH, AND IN NO CASE LESS THAN 400 LONG x 200 DEEP (16" x 8") SYMMETRICAL UNDER BEARING POINT. 3.1.4. PROVIDE A MINIMUM OF ONE CONTINUOUS COURSE 200mm (8") OF SOLID OR GROUTED VOID BLOCKS OR BRICKS LAID IN MORTAR AT THE TOP COURSE IMMEDIATELY BELOW ALL FLOOR AND ROOF BEARING LEVELS. 3.2. TOLERANCES: UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS AND /OR SPECIFICATION, SHALL CONFORM TO CSA A371. 3.3. COLD WEATHER CONSTRUCTION: REQUIREMENTS AND PROTECTION SHALL CONFORM TO CSA A371 AND UNDER NO CIRCUMSTANCES SHALL MASONRY CONSTRUCTION BE PERMITTED WHEN THE AIR TEMPERATURE FALLS BELOW -12°C. 4. QUALITY CONTROL 4.1. WHEN REQUESTED SAMPLING AND TESTING SHALL CONFORM TO CSA STANDARDS S304.1 AND ASTM C140. REFER ALSO TO GENERAL NOTES.	A06

THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS  
REMAIN THE COPYRIGHT PROPERTY OF  
STEPHENSON ENGINEERING  
AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	ISSUED FOR 90% SUBMISSION	NOV/17/2020

PROJECT: YORK REGION PRS #33

2960 TESTON ROAD, VAUGHAN

CLIENT



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



2550 Victoria Park Ave, Suite 602  
Toronto ON M2J 5A9 | Tel: (416) 435 9970  
www.stephenson-eng.com

PROFESSIONAL SEAL

## GENERAL NOTES

ORIENTATION

DATE	NOV. 2020
SCALE	1 : 1
DRAWN BY	AE
CHECKED BY	MM
DWG STATUS	

PROJECT No.	20190540
DRAWING No.	S4-01
REVISION	1

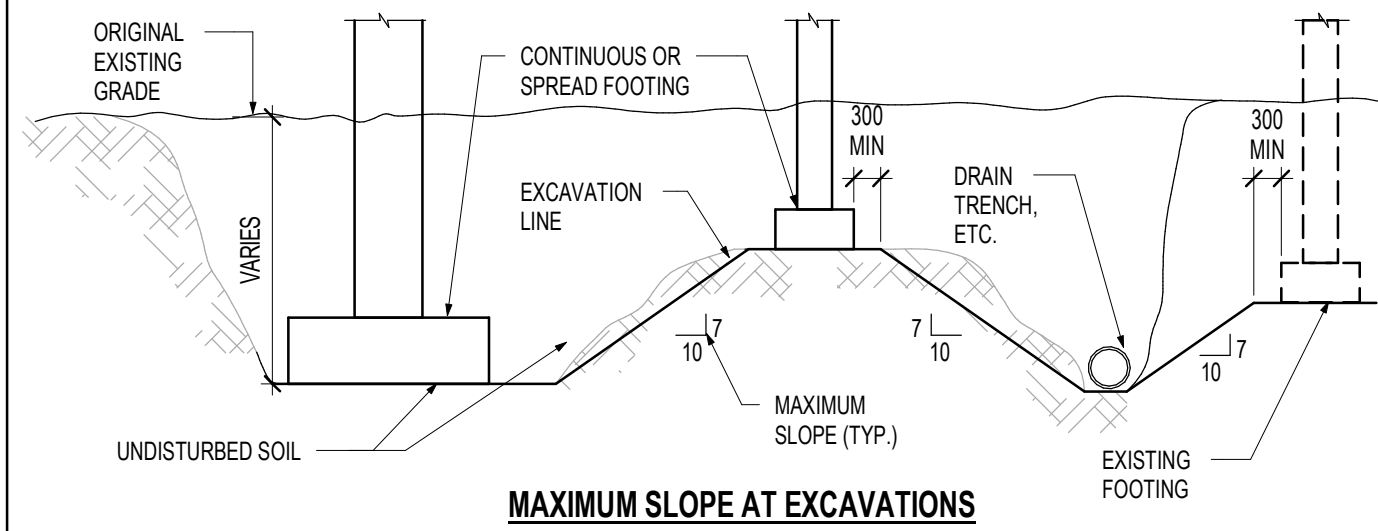
2020-11-17 1:13:28 PM



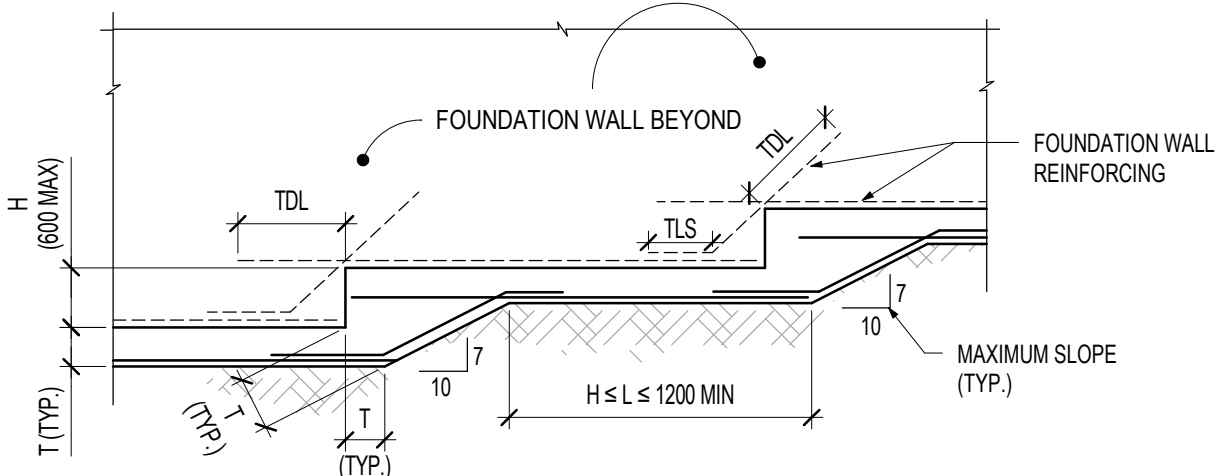




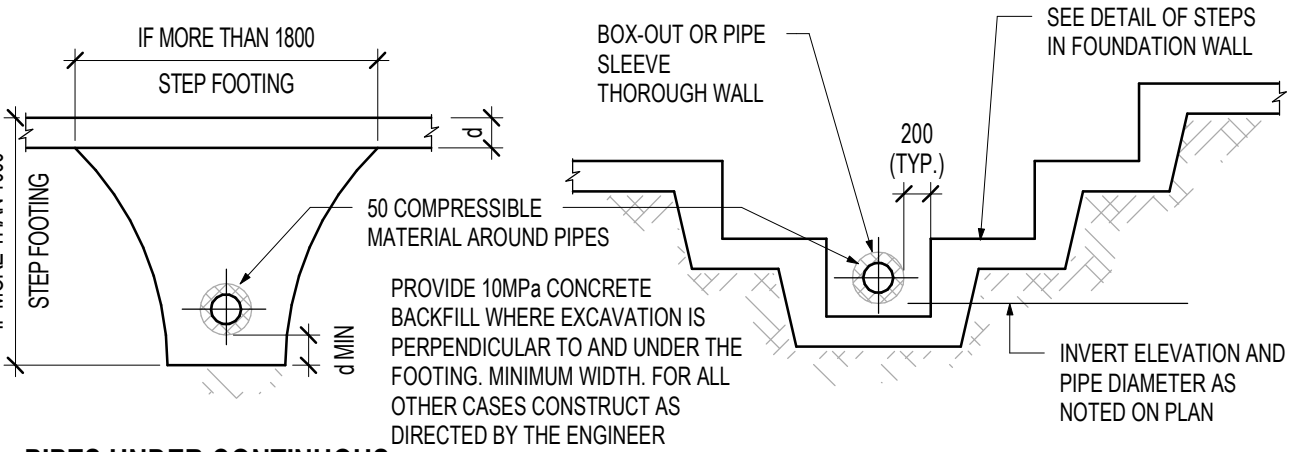
# STEPPED FOUNDATION AND CONSTRUCTION EXCAVATION F09



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



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



# NON-LOAD BEARING BLOCK WALL LINTELS

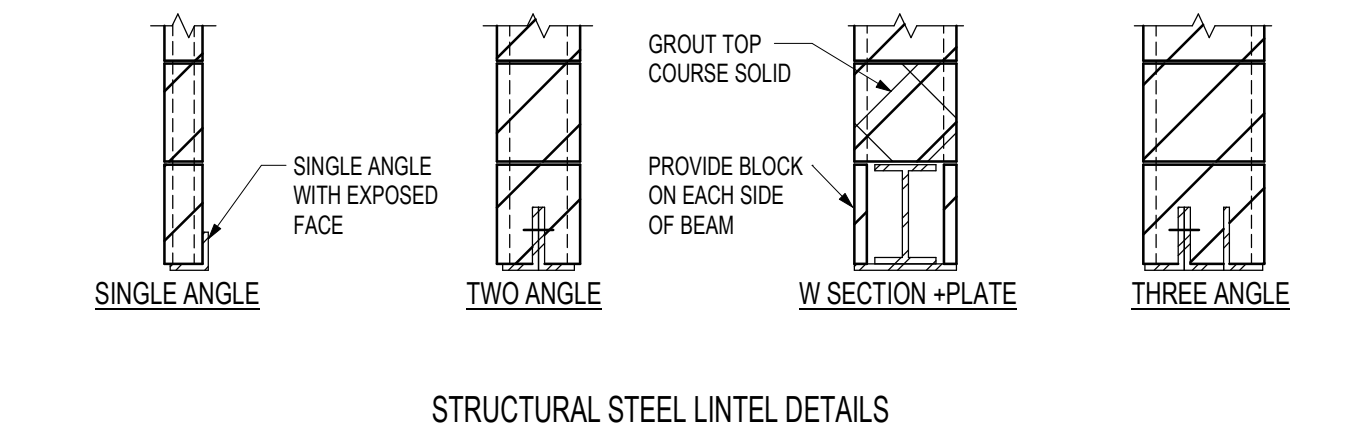
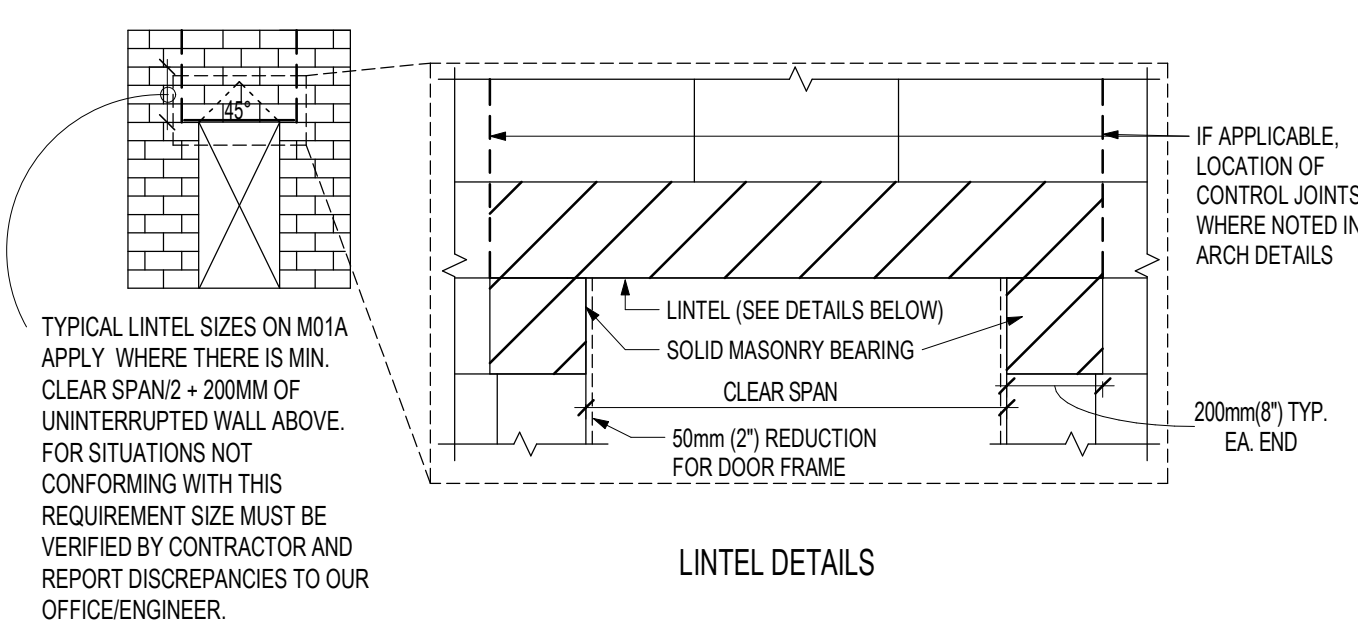
M01A

WALL OPENING CLEAR SPAN	STRUCTURAL STEEL LINTELS				
	MASONRY BLOCK THICKNESS				
	90 (4")	140 (6")	190 (8")	240 (10")	290 (12")
300mm TO 500mm (12" TO 22")	75mm X 8mm PL (3"x5/16" PL)	125mm X 8mm PL (5"x5/16" PL)	175mm X 8mm PL (7"x5/16" PL)	225mm X 8mm PL (9"x5/16" PL)	275mm X 8mm PL (11"x5/16" PL)
550mm TO 1200mm (22" TO 4'-0")	1-L89x89x6.4 OR 2-L44x44x4.8	1-L127x89x6.4 (LLH) OR 2-L51x38x6.4 (LLV)	2-L89x89x6.4	L102x89x6.4 (LLH) + L127x89x6.4 (LLH)	3-L89x89x6.4
1200mm TO 1830mm (4'-0" TO 6'-0")	1-L127x89x7.9 (LLV) OR 2-L51x38x6.4 (LLV)	1-L127x127x7.9 OR 2-L89x94x6.4 (LLV)	2-L89x89x6.4	L102x89x6.4 (LLH) + L127x89x6.4 (LLH)	3-L89x89x6.4
1830mm TO 2440mm (6'-0" TO 8'-0")	1-L127x89x7.9 (LLV)	1-L127x127x7.9 OR 2-L89x94x7.9 (LLV)	2-L127x89x6.4 (LLV)	L102x102x7.9 + L127x102x7.9 (LLH)	3-L127x89x6.4 (LLV)
2440mm TO 3080mm (8'-0" TO 10'-0")	1-L127x89x7.9 (LLV)	1-L127x127x7.9	2-L127x89x7.9 (LLV)	L152x102x7.9 (LLV) + L127x127x7.9	3-L127x89x7.9 (LLV)
3080mm TO 3660mm (10'-0" TO 12'-0")	N/A	N/A	W200x27 + 175x6.4 PL BOTTOM	W200x27 + 225x6.4 PL BOTTOM	N/A

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

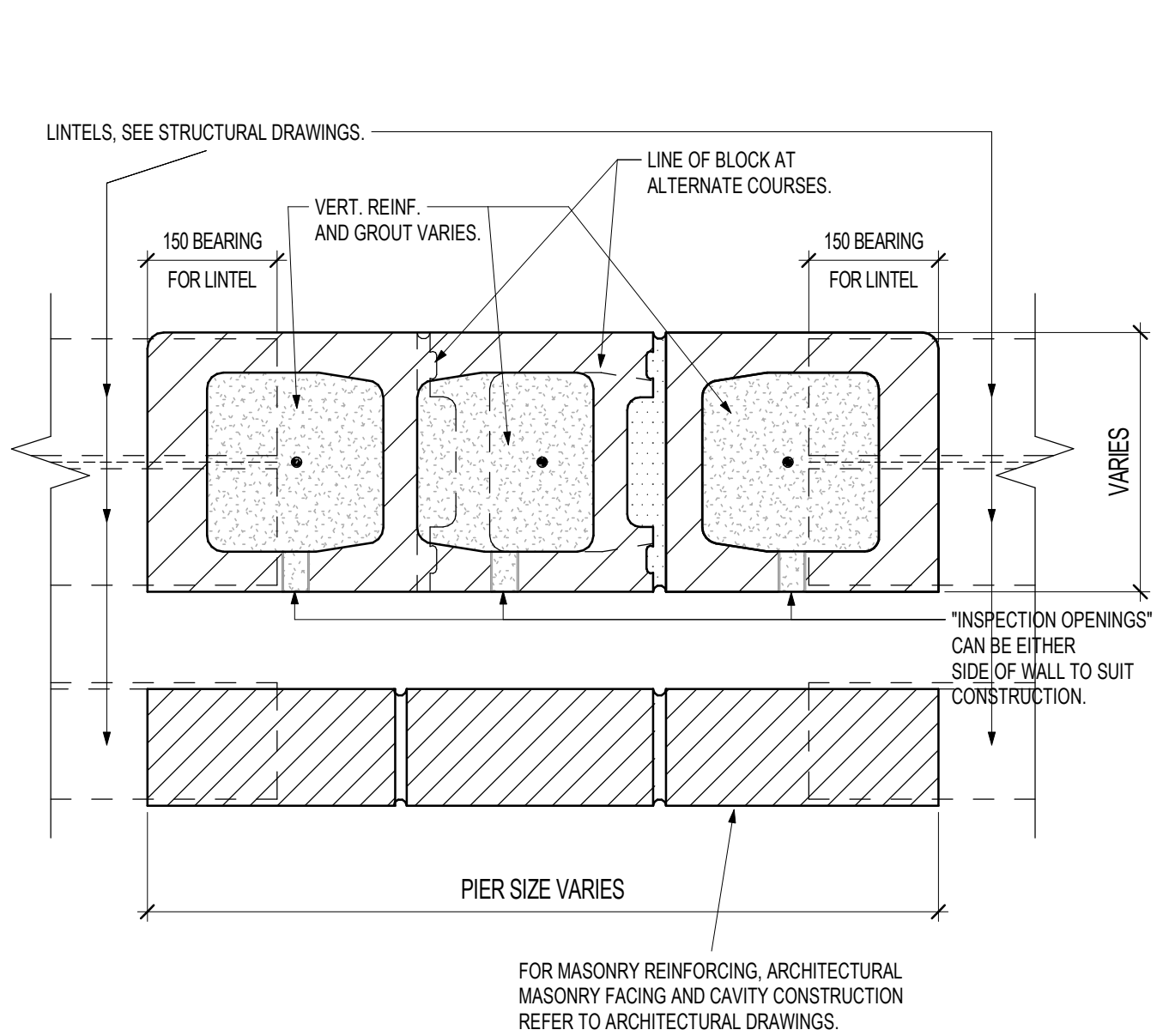
# NON-LOAD BEARING BLOCK WALL LINTEL DETAILS

M01B



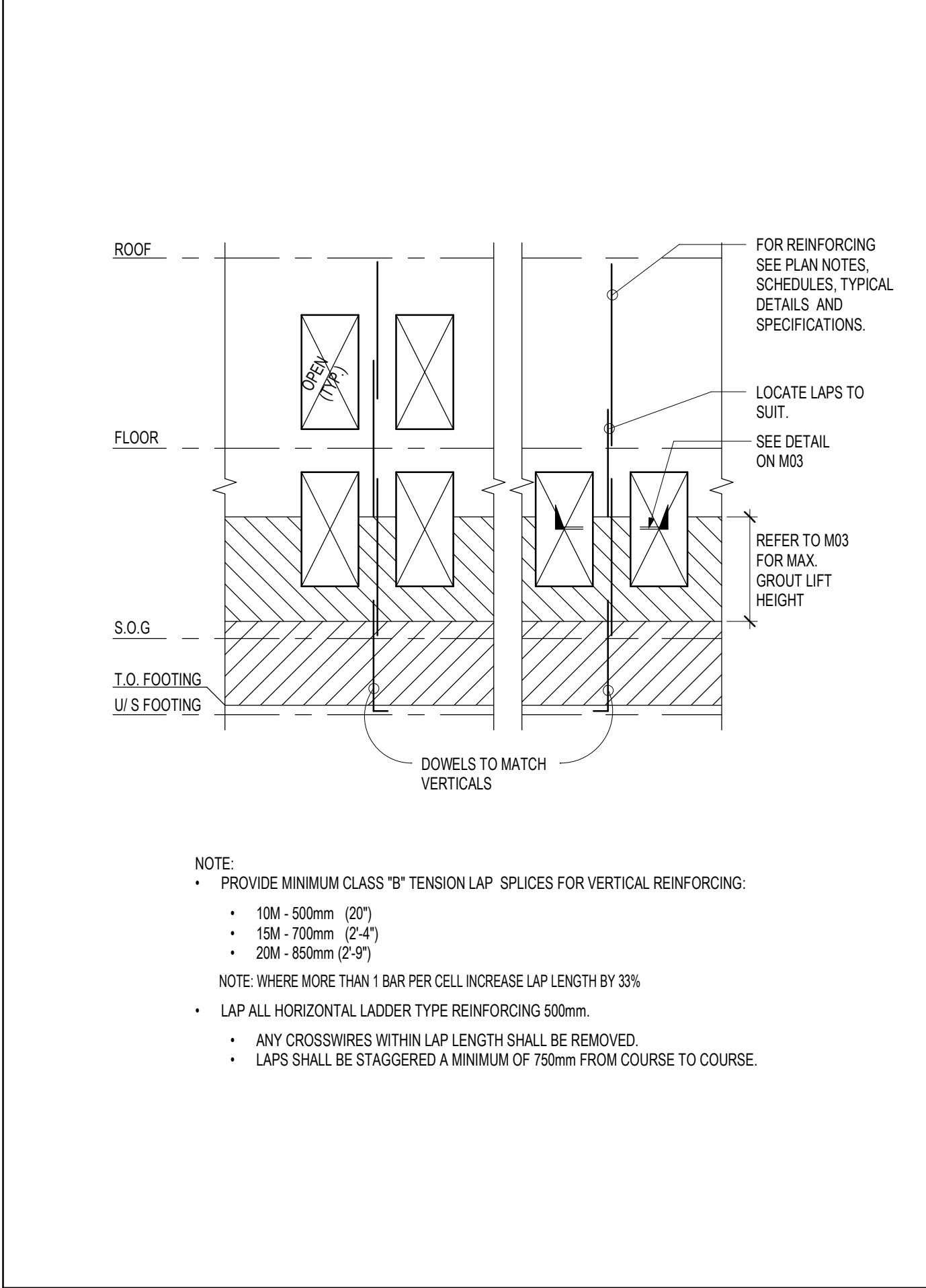
# TYPICAL REINFORCED EXTERIOR MASONRY WALLS AND PIERS PLAN DETAIL

M03



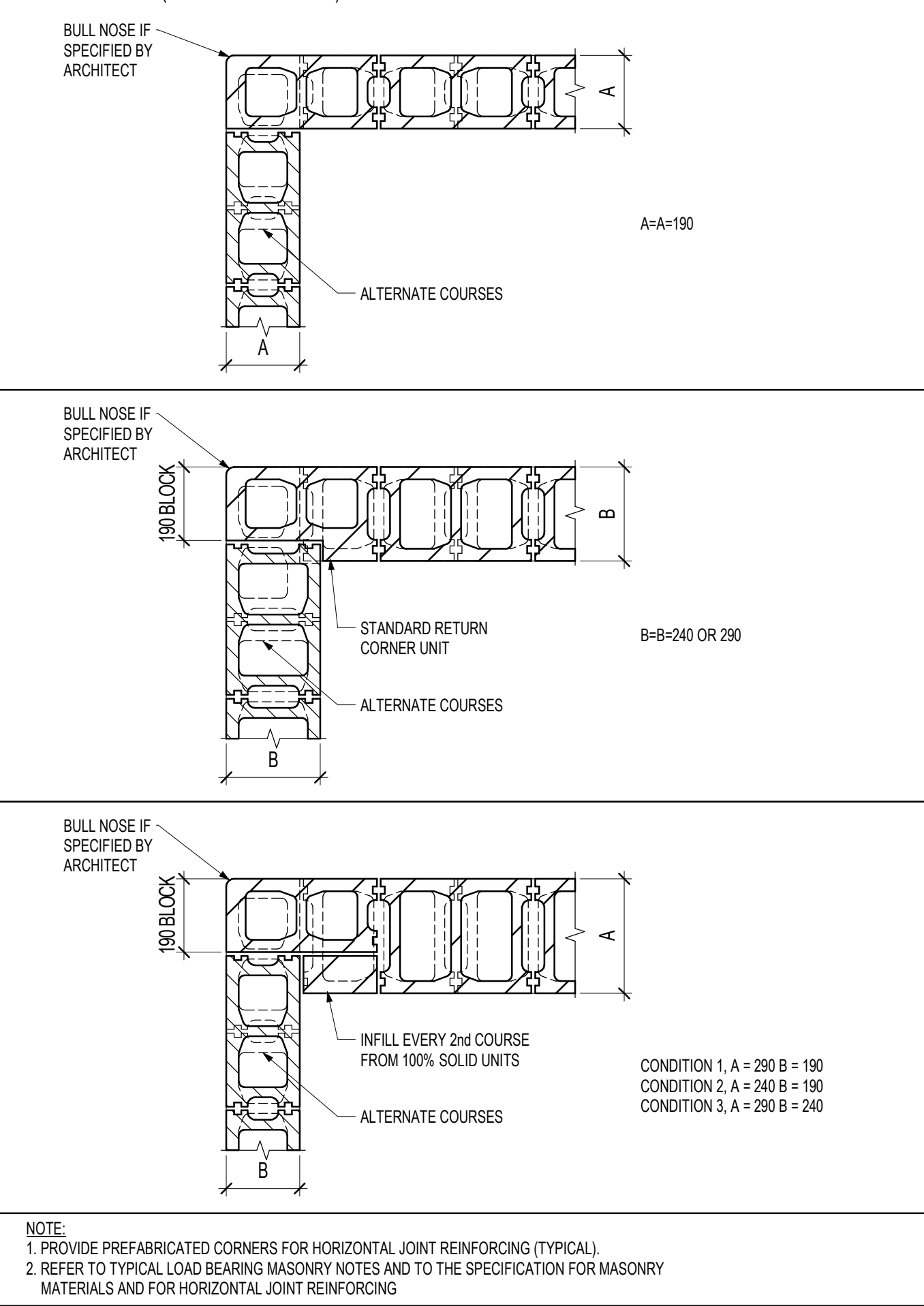
# TYPICAL ELEVATION REINFORCED MASONRY WALLS AND PIERS

M04



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

M06



# NON LOAD-BEARING MASONRY PARTITION REINFORCING SCHEDULE | FaSa(0.2)<0.35

M07A.1

**INTERIOR PARTITIONS ABOVE GRADE  
(DIFFERENTIAL PRESSURE 0.5kPa)**

BLOCK	MAXIMUM HEIGHT	VERTICAL REINFORCING	HORIZONTAL REINFORCEMENT
140	N/A	UNREINFORCED	9 GA @ 400mm (1'-4") o/c MAX. "LADDER" TYPE
190	3000 [10'-0"]		
240	3800 [12'-6"]		

**INTERIOR PARTITIONS ABOVE GRADE  
(DIFFERENTIAL PRESSURE 0.5kPa)**

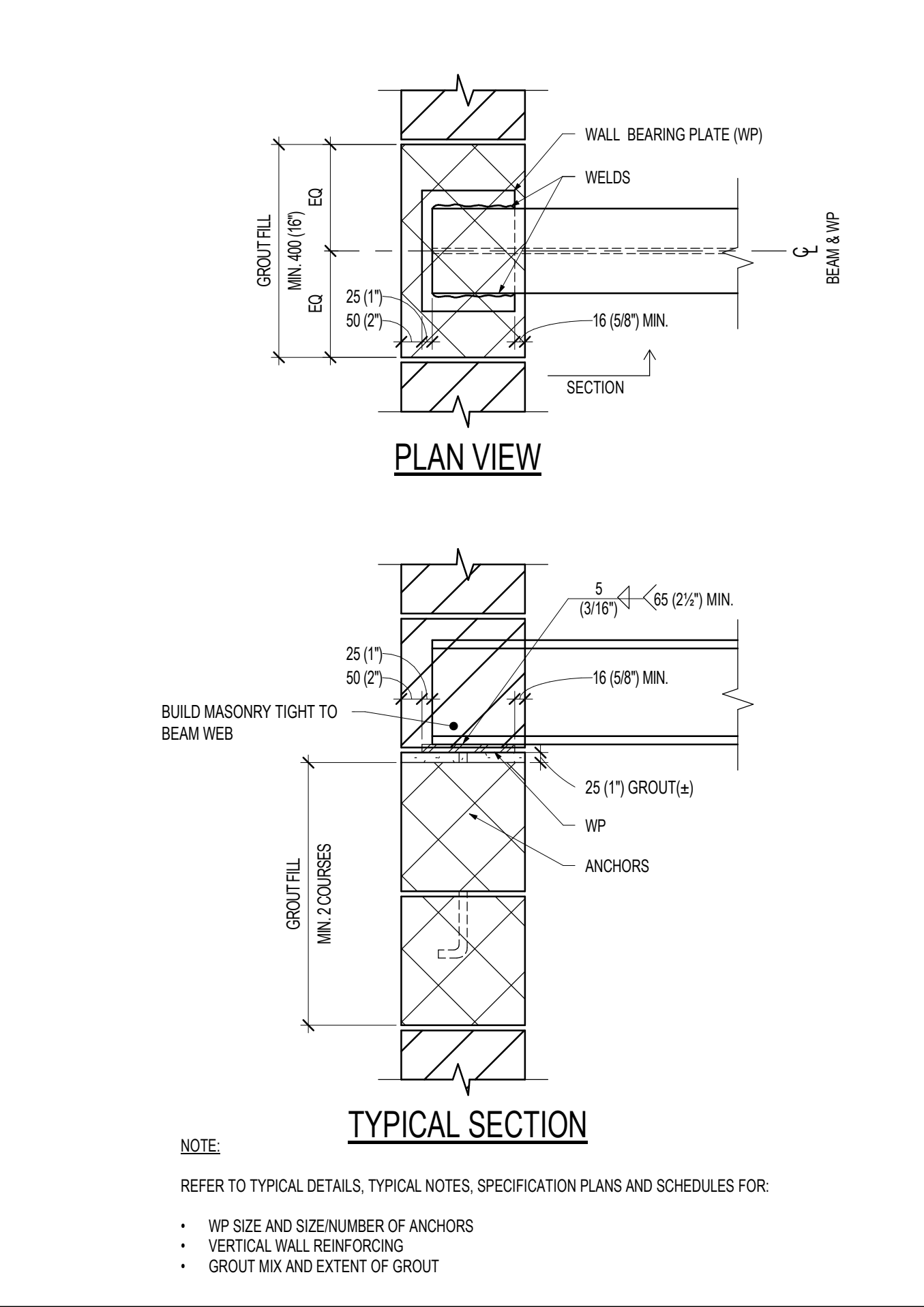
BLOCK	MAXIMUM HEIGHT	VERTICAL REINFORCING	HORIZONTAL REINFORCEMENT
140	3400 [11'-4"]	15 @ 1200 [4'-0"] o/c	9 GA @ 400mm (1'-4") o/c MAX. "LADDER" TYPE
190	5200 [17'-4"]		
240	6400 [21'-4"]		

**NOTES:**

- MINIMUM 600MM WIDE PIER BETWEEN ADJACENT OPENINGS. PIER MUST BE CONTINUOUS FROM BASE OF PARTITION TO LATERAL SUPPORT POINT AT TOP OF PARTITION.
- AVERAGE OPENING SIZE ON EITHER SIDE OF PIER LIMITED TO 1400mm FOR REINFORCED PARTITIONS
- FOR UNREINFORCED PARTITIONS, MAX. OPENING WIDTH MUST NOT EXCEED PIER LENGTH.
- REINFORCING SCHEDULE APPLIES FOR PARTITIONS WALLS UP TO 100m ABOVE GRADE
- PARTITION WALL REINFORCING DOES NOT APPLY FOR SHAFTS WHERE PRESSURES EXCEED NOTED DIFFERENTIAL PRESSURES NOTED ABOVE.
- IF ANY OF THESE CONDITIONS ARE NOT MET, CONTRACTOR TO PROVIDE ENGINEER STAMPED SHOP DRAWINGS OF REINFORCING FOR CONSULTANT REVIEW
- REFER TO TD M07B FOR LATERAL SUPPORT DETAILS FOR CONCRETE CONSTRUCTION, M14 FOR STEEL CONSTRUCTION. LATERAL SUPPORTS TO BE SPACED AT 10x UNLESS NOTED OTHERWISE

# TYPICAL STEEL BEAM BEARING ON MASONRY WALL (PERPENDICULAR)

M08



THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS REMAIN THE COPYRIGHT PROPERTY OF STEPHENSON ENGINEERING AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

**ISSUE OR REVISION**

NO. ISSUED FOR 1 DATE NOV/17/2020

PROJECT : **YORK REGION PRS #33**

CLIENT : **YORK REGION**

2960 TESTON ROAD, VAUGHAN

**York Region**

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

**stephenson ENGINEERING**

2550 Victoria Park Ave, Suite 602  
Toronto ON M2J 5A9 | Tel: (416) 435 9970  
www.stephenson-eng.com | info@stephenson-eng.com

PROFESSIONAL SEAL

DWG TITLE

**TYPICAL DETAILS**

ORIENTATION

DATE

NOV. 2020

SCALE

1 : 1

DRAWN BY

AE

CHECKED BY

MM

DWG STATUS

PROJECT No.

20190540

DRAWING No.

**S4-03**

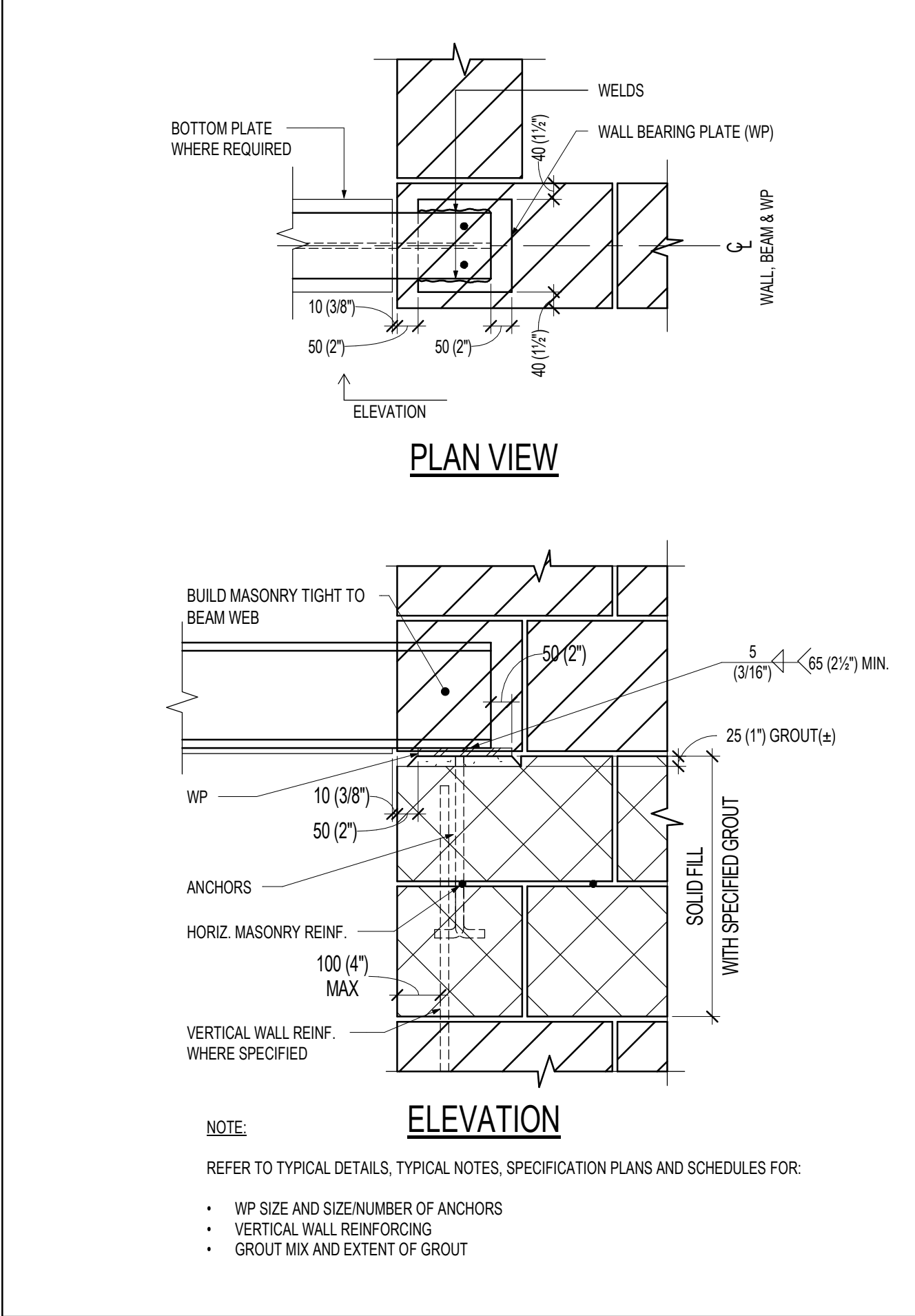
REVISION

1



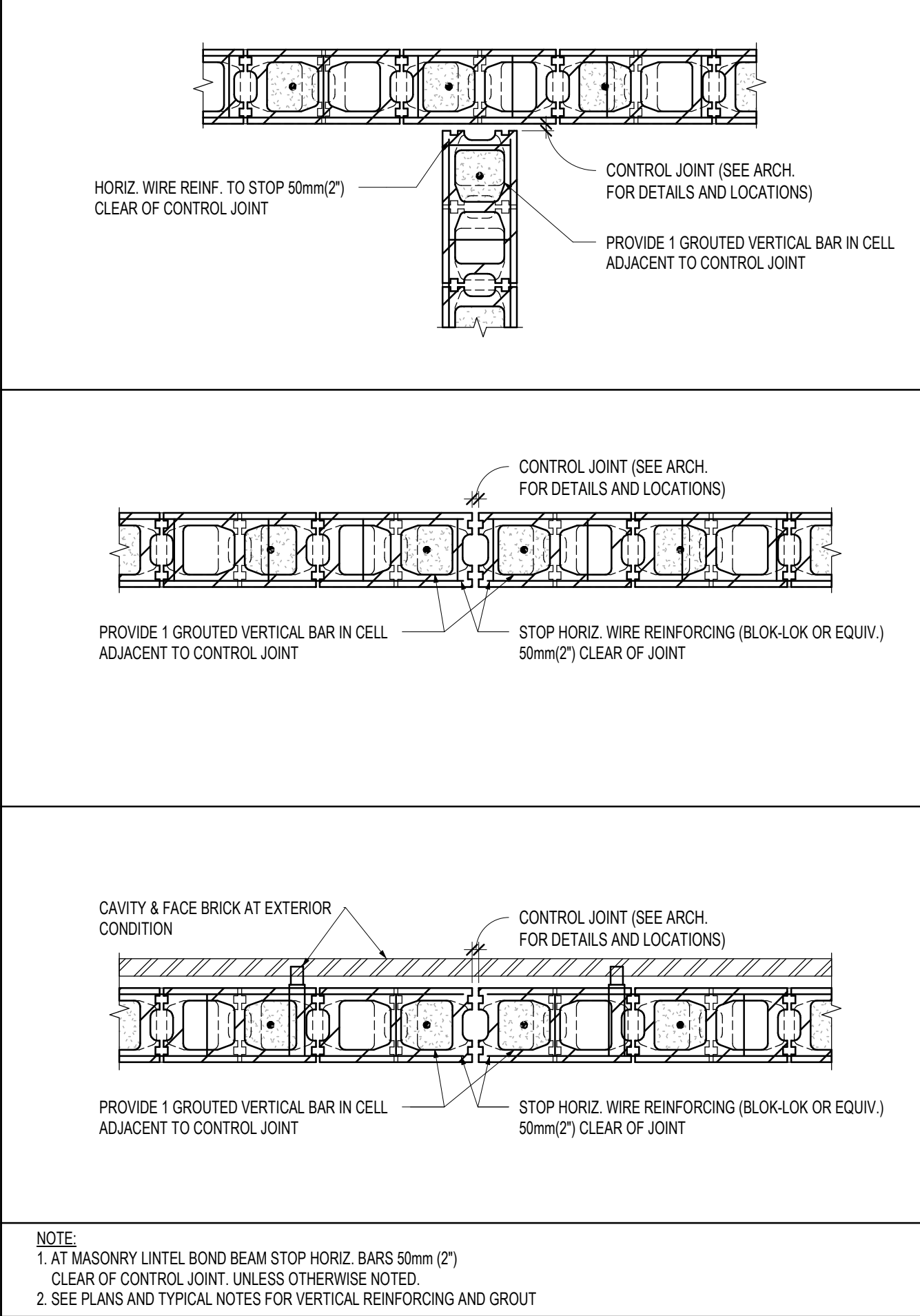
# TYPICAL STEEL BEAM BEARING ON END OR CORNER OF MASONRY WALL (MINIMUM REQUIREMENTS)

M09



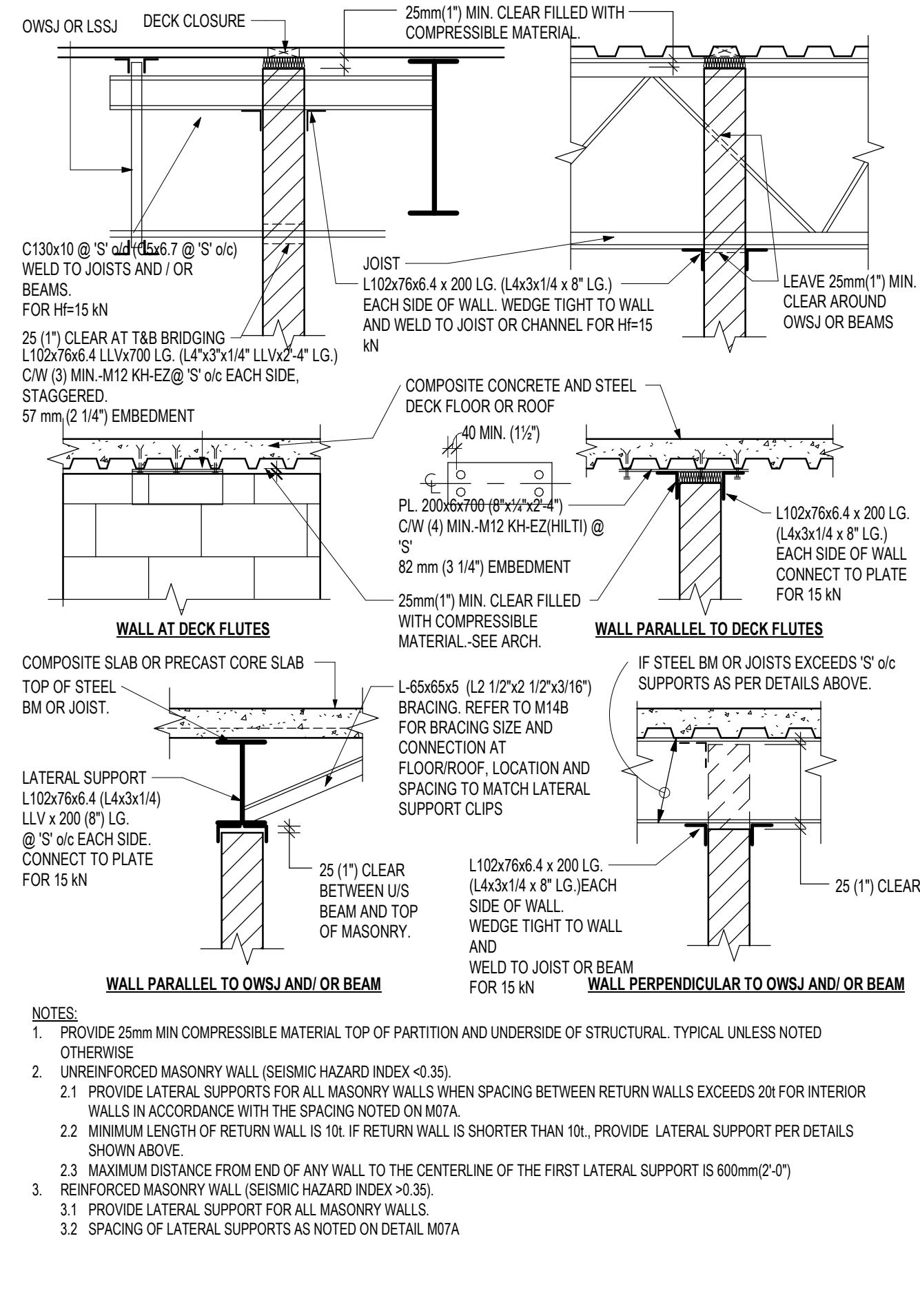
# TYPICAL DETAIL AT CONTROL JOINT IN REINFORCED MASONRY WALL

M10



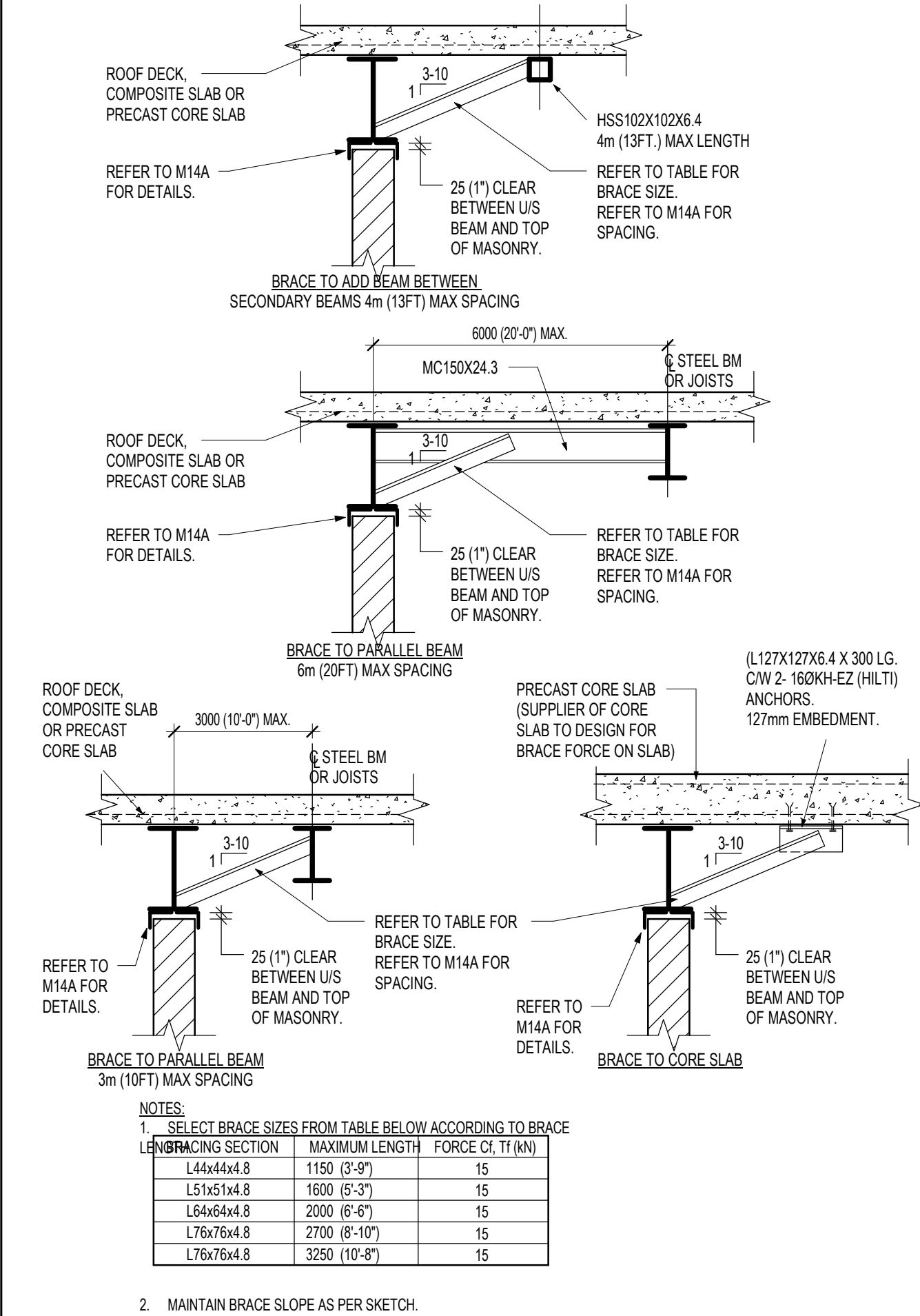
# TYPICAL LATERAL SUPPORT AT PARTITIONS

M14A



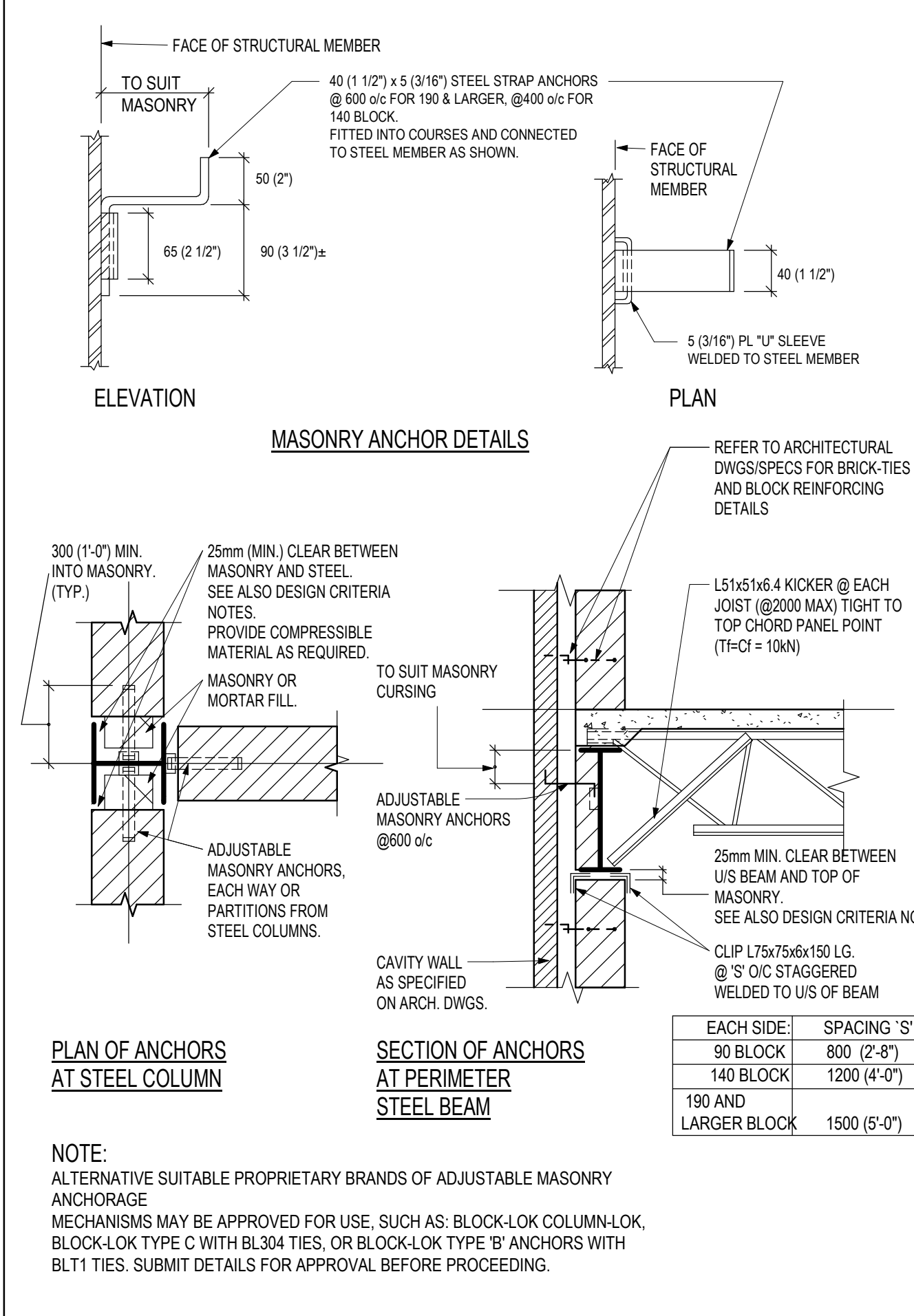
# TYPICAL BRACE SUPPORTING PARTITIONS

M14B



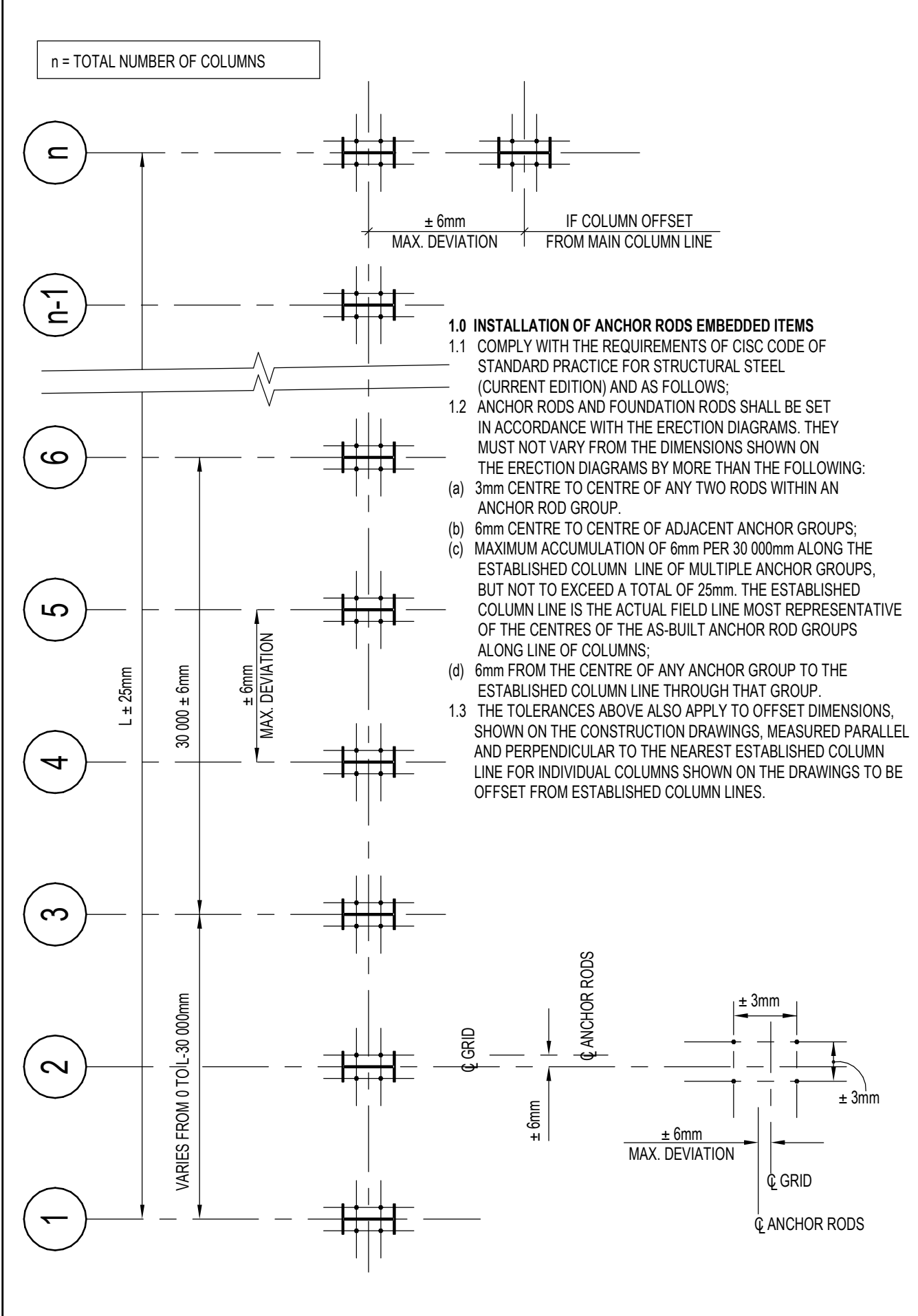
# ADJUSTABLE MASONRY ANCHORS TO STRUCTURAL STEEL

M15



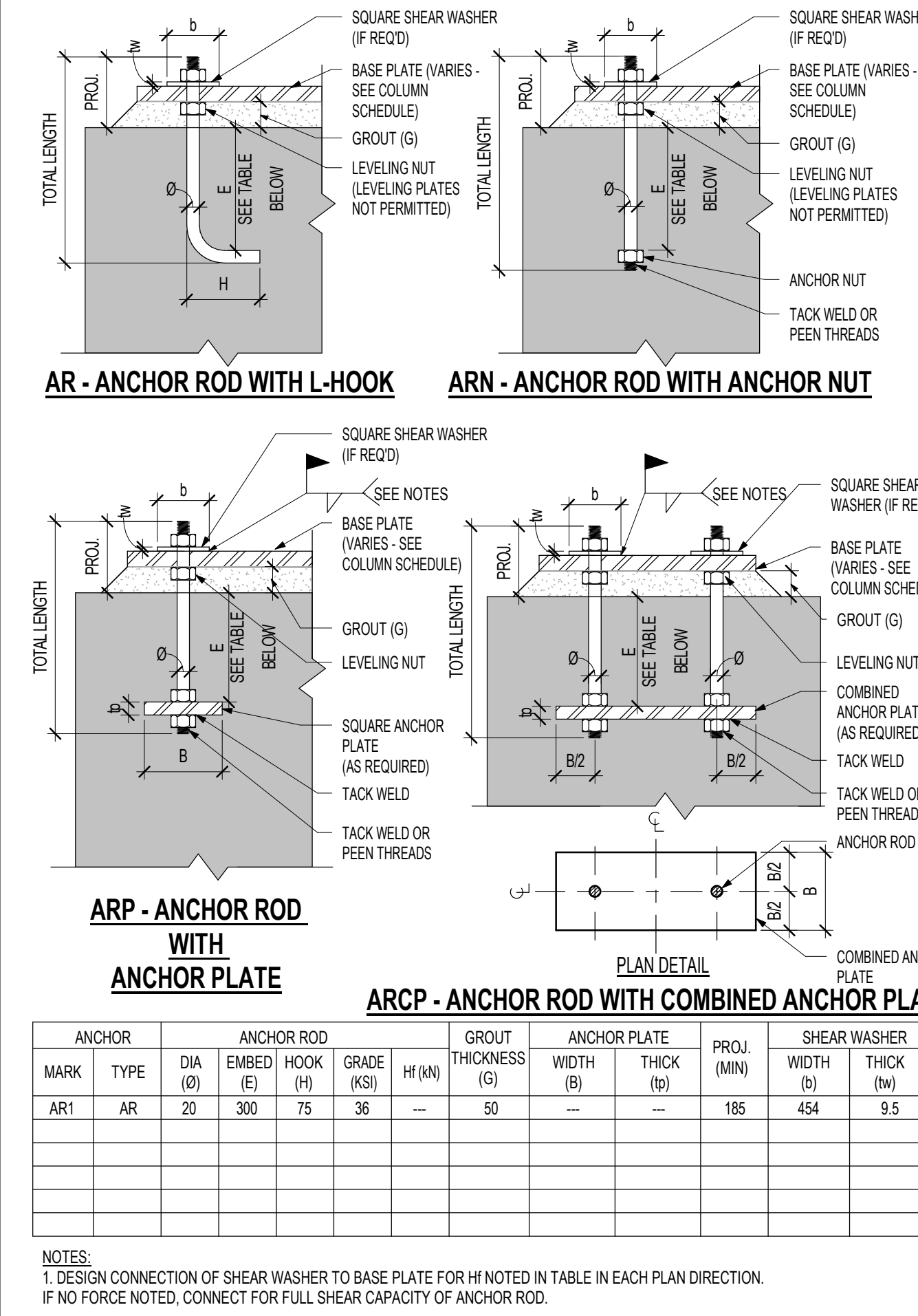
# TOLERANCES ON ANCHOR ROD PLACEMENT

SAB01



# ANCHOR ROD DETAILS

SAB02



# LIGHTWEIGHT STEEL FRAMING NOTES

A11

- GENERAL**
  - DESIGN, FABRICATION, HANDLING AND ERECTION SHALL CONFORM TO THE FOLLOWING STANDARDS:
    - CSA-S16 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
    - CSA-W59 WELDED STEEL CONSTRUCTION (METAL ARC WELDING)
    - CSA-W11 CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES
    - CSA-S10 LIGHTWEIGHT STEEL FRAMING MANUAL
  - ERECTION DETAILS AND CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER EXPERIENCED IN THIS TYPE OF WORK.
  - SUBMIT SHOP DRAWINGS INDICATING ALL MEMBER SIZES, LOCATIONS, THICKNESS, COATINGS AND MATERIALS. INCLUDE CONNECTION DETAILS FOR ATTACHING FRAMING TO ITSELF AND FOR ATTACHMENT TO THE STRUCTURE. INDICATE DIMENSIONS, OPENINGS, REQUIREMENTS OF RELATED WORK AND CRITICAL INSTALLATION PROCEDURES. SHOW TEMPORARY BRACING REQUIRED FOR ERECTION PURPOSES.
- PRODUCTS**
  - ALL MEMBERS SHALL BE MANUFACTURED BY BAILEY METAL PRODUCTS LTD., CSM CANADIAN STEEL MANUFACTURING INC., OR APPROVED EQUIVALENT.
  - MINIMUM BASE STEEL THICKNESS SHALL BE 0.91 mm (.036") EXCEPT JOISTS SHALL BE 1.22 mm (.048").
  - STEEL SHALL CONFORM TO ASTM A653/ASTM A653M WITH A MINIMUM 560 HOT DIP GALVANIZED COATING.
  - SHEET METAL SCREWS SHALL HAVE A MINIMUM COATING OF .008 mm OF ZINC OR CADMIUM
  - ZINC RICH PAINT FOR TOUCHING UP WELDS AND DAMAGED COATINGS SHALL CONFORM TO CSSB-1-GP-181.
  - STEEL THICKNESS, EXCLUSIVE OF COATING, SHALL BE MARKED ON EACH MEMBER BY EMBOSING, OR BY COLOUR CODING.
- EXECUTION**
  - FABRICATION AND ERECTION SHALL CONFORM TO THE REVIEWED SHOP DRAWINGS. MODIFICATIONS REQUIRED TO ACCOMMODATE AS-BUILT CONDITIONS SHALL BE SUBMITTED FOR APPROVAL.
  - PROVIDE CUT-OUTS CENTRED ON WEBS OF MEMBERS TO ACCOMMODATE SERVICES. REINFORCE CUT-OUTS AS REQUIRED TO MAINTAIN STRENGTH AND STIFFNESS OF MEMBERS.
  - PRODUCTS SHALL BE STORED AND PROTECTED FROM CONDITIONS THAT MAY CAUSE PHYSICAL DAMAGE OR CORROSION.
  - FRAMING SHALL BE ERECTED TRUE AND PLUMB WITHIN TOLERANCES SPECIFIED IN CSSBI 50M.
  - TEMPORARY BRACING SHALL BE PROVIDED AND LEFT IN PLACE AS LONG AS REQUIRED FOR THE SAFETY AND INTEGRITY OF THE STRUCTURE.
  - PROVIDE ADEQUATE STEEL BRIDGING FOR STUDS AND JOISTS AT 1200 mm (4'-0") MAXIMUM TO PROVIDE LATERAL SUPPORT TO MEMBERS.
  - CUTTING OF MEMBERS MAY BE BY SAW OR SHEAR. TORCH CUTTING IS NOT PERMITTED.
  - SPlicing OF MEMBERS IS NOT PERMITTED.
  - SCREWS AND WELDING SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS AND TO REVIEWED SHOP DRAWINGS.
  - SCREWS COVERED BY SHEATHING MATERIALS SHALL HAVE LOW PROFILE HEADS.
  - TOUCH UP WELDS AND DAMAGED COATINGS, WITH ZINC RICH PAINT
  - STUDS SHALL SEAT INTO TOP AND BOTTOM TRACKS. THE GAP BETWEEN THE END OF THE STUD AND THE WEB OF THE TRACK SHALL NOT EXCEED 1.5 mm.
  - ALL AXIALLY LOADED MEMBERS SHALL BE ALIGNED VERTICALLY TO ALLOW FOR FULL TRANSFER OF THE LOADS DOWN TO THE FOUNDATIONS. VERTICAL ALIGNMENT SHALL BE MAINTAINED AT FLOOR/WALL INTERSECTIONS.
  - JOIST AND RAFTERS OR THEIR END STIFFENERS SHALL BE LOCATED DIRECTLY OVER AXIAL LOAD BEARING STUDS. ALTERNATIVELY A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED TO TRANSFER LOADS. THE USE OF TRACK AS A LOAD DISTRIBUTION MEMBER IS NOT PERMITTED.
  - HOLES SHALL NOT BE FIELD CUT IN MEMBERS WITHOUT APPROVAL.
- QUALITY CONTROL**
  - AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO BE ENGAGED TO REVIEW AND REPORT ON THE MATERIALS, FABRICATION, ERECTION AND CONNECTIONS.

THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS  
REMAIN THE COPYRIGHT PROPERTY OF  
STEPHENSON ENGINEERING  
AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

**ISSUE OR REVISION**  
NO. ISSUED FOR 1  
ISSUED FOR 90% SUBMISSION  
DATE NOV/17/2020

PROJECT: YORK REGION PRS #33

CLIENT: **York Region**  
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.  
**stephenson** ENGINEERING  
2550 Victoria Park Ave. Suite 602  
Toronto ON M2J 5A9 | Tel: (416) 435 9970  
www.stephenson-eng.com | info@stephenson-eng.com  
PROFESSIONAL SEAL

DWG TITLE: TYPICAL DETAILS AND GENERAL NOTES

ORIENTATION

DATE: NOV. 2020  
SCALE: 1 : 1  
DRAWN BY: AE  
CHECKED BY: MM  
DWG STATUS:

PROJECT No: 20190540  
DRAWING No: S4-04  
REVISION: 1

2960 TESTON ROAD, VAUGHAN

2020-11-17 13:32 PM



# YORK REGION PRS #33

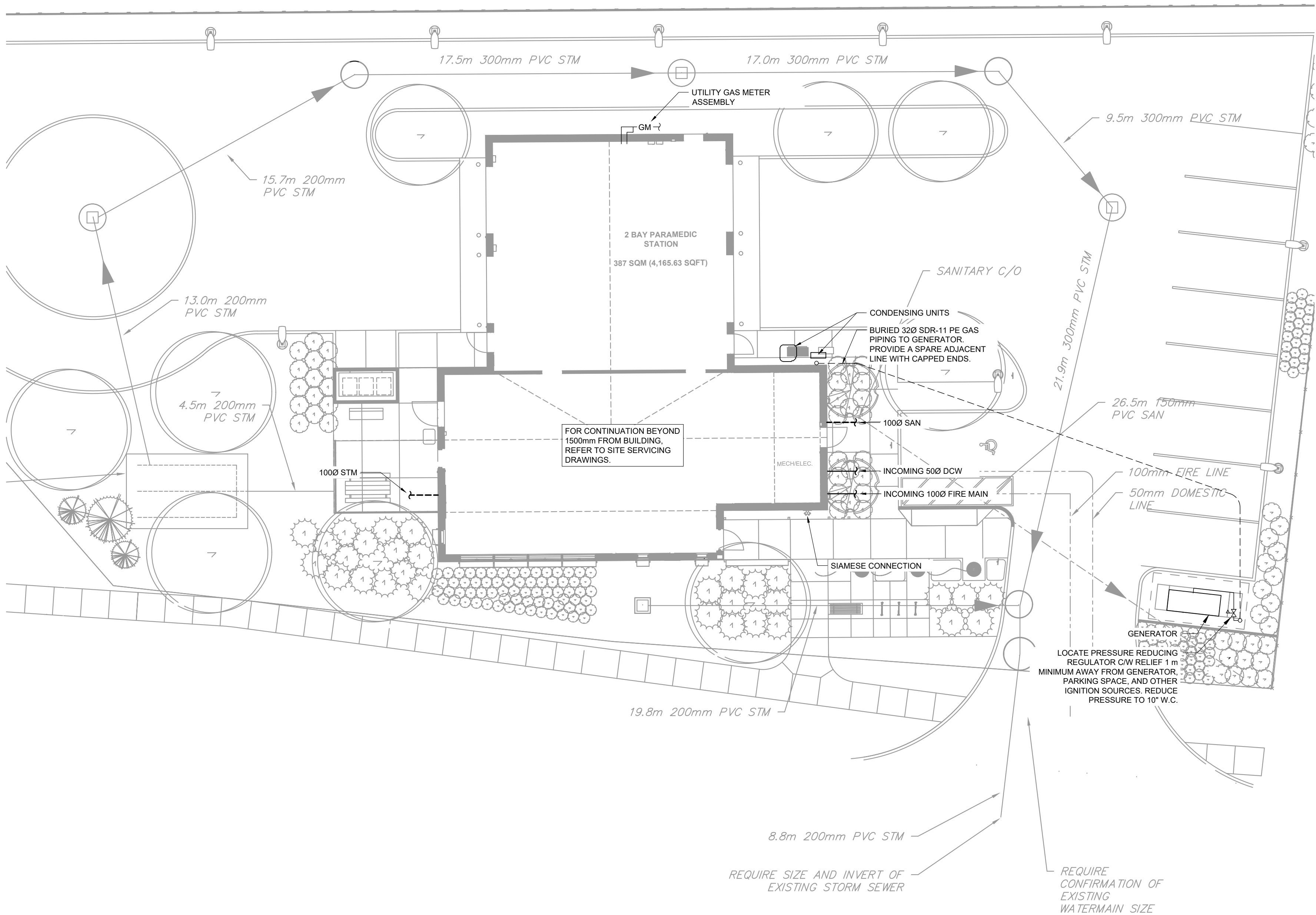
2960 TESTON ROAD, VAUGHAN, ONTARIO

## MECHANICAL DRAWINGS

### MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION VALVE		2-WAY ACTUATED VALVE		ROUND DUCT UP
	3-WAY MIXING / DIVERTING VALVE		3-WAY ACTUATED VALVE		ROUND DUCT DOWN
	PRESSURE REDUCING VALVE		BALANCING VALVE		AIR FLOW DIRECTION
	REDUCER / INCREASER		CHECK VALVE		THERMOSTAT
	BACKFLOW PREVENTER		PIPE DOWN		ERV / HRV CONTROLLER
	PUMP		PIPE UP		SUPPLY DUCT UP
	EXPANSION TANK		PIPE CONTINUATION		SUPPLY DUCT DOWN
	PURGE VALVE		PIPE CONNECTION		RETURN DUCT UP
	TEMP. & PRESSURE RELIEF VALVE		FLANGED CONNECTION W/BLIND FLANGE		RETURN DUCT DOWN
	DOMESTIC COLD WATER		FLANGED CONNECTION		EXHAUST DUCT UP
	DOMESTIC HOT WATER		SCREWED OR WELDED PIPE CAP		EXHAUST DUCT DOWN
	DHW RECIRCULATION LINE		DRAIN (SCHEMATIC / ELEVATION)		FLEX DUCT
	NON-POTABLE PIPING		FIXTURE DRAIN		RECTANGULAR DUCT BREAK
	HOSE BIBB		AIR SEPARATOR		BALANCING DAMPER
	NON-FREEZE HOSE BIBB NP = NON-POTABLE		FLOW DIRECTION		MOTORIZED DAMPER
	CLEANOUT IN CEILING (END OF LINE)		AIR VENT		FIRE DAMPER
	CLEANOUT IN FLOOR		STRAINER		BACK DRAFT DAMPER
	FLOOR DRAIN (FD)		THERMOSTATIC RADIATOR VALVE		"A" = DIFFUSER TYPE "2000" = DIFFUSER SIZE (mm) "130" = FLOW RATE (L/S)
	FUNNEL FLOOR DRAIN (FFD)		TIE POINT		
	FIRE DEPARTMENT CONNECTION PIPING		UNION		INTERNALLY LINED ACOUSTIC DUCT
	WATER METER		PIPE CAP		ACOUSTICALLY LINED DUCT (SINGLE LINE)
	GAS METER		PIPE SLOPE		SILENCER
	REFRIGERANT PIPING		EYEWASH		FLOW SWITCH
	GLYCOL SUPPLY		P-TRAP		PRESSURE GAUGE / INDICATOR
	GLYCOL RETURN		ROOF DRAIN		TEMPERATURE GAUGE / INDICATOR
	NATURAL GAS PIPING		CONDENSATE DRAIN		TEMPERATURE SENSOR (TRANSMITTER)
	HIGH PRESSURE GAS PIPING		GAUGE COCK		PRESSURE SENSOR (TRANSMITTER)
	PROPANE GAS PIPING		FIRE EXTINGUISHER CABINET		RELATIVE HUMIDITY SENSOR (TRANSMITTER)
	SPRINKLER PIPING		THERMOSTATIC MIXING VALVE		FLOW INDICATOR
	STORM DRAIN		SANITARY DRAIN		FLOW SENSOR
	STORM DRAIN BELOW GRADE		SANITARY DRAIN BELOW GRADE		DIFFERENTIAL PRESSURE SENSOR

DRAWING LIST	
M0.1	SITE PLAN
M1.0	SCHEDULES
M1.1	SCHEDULES
M2.0	PLUMBING & DRAINAGE
M3.0	HVAC
M4.0	PART PLANS
M5.0	DETAILS
M5.1	DETAILS
M5.2	GAS AND PLUMBING SCHEMATICS
M6.0	FIRE PROTECTION
M6.1	FIRE PROTECTION DETAILS



SITE PLAN

SCALE 1:150

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	ISSUED FOR TENDER	30 MAY 2025

PROJECT :  
**YORK REGION PRS #33**  
**RFTC-397-21**  
2960 TESTON ROAD, VAUGHAN

CLIENT

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

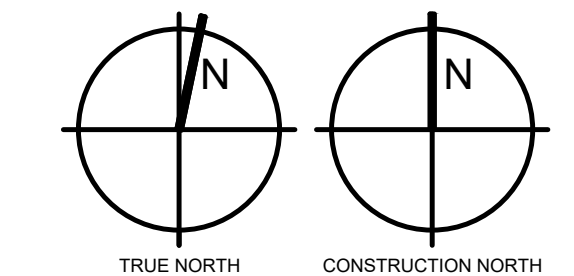
CONSULTANT  
**ZON**  
zon engineering inc  
465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
888-538-6363  
WWW.ZONENGINEERING.COM

PROFESSIONAL SEAL

DWG TITLE

**SITE PLAN**

ORIENTATION



DATE  
2020-06-10

SCALE  
As indicated

DWG STATUS  
DESIGN

PROJECT No.  
TBA1902

DRAWING No.  
**M0.1**

REVISION



FAN SCHEDULE						
TAG	DESCRIPTION	MANUFACTURER AND MODEL	AIR FLOW US (CFM)	ESP PA (INWC)	ELECTRICAL	REMARKS
EF-1	SERVES VEHICLE BAY CONTROLLED ON HIGH READING FROM GAS DETECTION SYSTEM	COOK XWD 20XW28D10-EC	1338 (2836)	50 (0.2)	115/1/60 1/3 HP MOTOR	EC MOTOR FAN, ALUMINUM PROPELLOR, C/W OSHA WIRE GUARD, WALL COLLAR, C/W SPEED CONTROL AND AIR BALANCE KIT, OSHA WIRE GUARD, WALL COLLAR, NEMA 1 DISCONNECT.
EF-2	CONSTANT DEPRESSURIZATION OF VEHICLE BAY, ECM	PANASONIC WHISPERCEILING DC FV-0511VQ1	24-38-52 (50-90-110) HI-MED-LO	63 (0.25)	120/1/60 10.8 W MED SPD, 0.27 MAX A	CEILING MOUNT TYPE FAN WITH DCM TECHNOLOGY FOR MANUALLY ADJUSTABLE PICK-A-SPEED FLOW/RATES WITH 6" DIAMETER DUCT ADAPTER, SET/BALANCE FOR BETWEEN 60-90 CFM. STATUS MONITORED BY BAS.
TF-1	TRANSFER AIR COOLING FOR SERVER ROOM	FANTECH FG 10 EC CENTRIFUGAL INLINE FAN	217 (460)	50 (0.2)	120/1/60 91 W 1.32 MAX A	IN-LINE FAN WITH SPEED CONTROLLABLE EC MOTOR AND PRE-WIRED POTENTIOMETER, 250 mm (10") DUCT DIAMETER, 5 KG (11 LBS) SHIPPING WEIGHT. COONTROLLED BY BAS.
CF-1	CEILING FAN SERVES VEHICLE BAY	BIG ASS POWERFOIL D	-	-	208/1/60	3050mm FAN DIAMETER, C/W WALL-MOUNTED KEYPAD, SAFETY CABLE, ONBOARD VFD CONTROLLER. PROVIDE BAFCON CONTROLLER FOR CONNECTION TO BAS. MOUNTING HEIGHT TO BE CONFIRMED ON SITE.
NOTES: 1. ALL EXHAUST FANS SHALL INCLUDE VIBRATION ISOLATION.						

UNIT HEATER SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER AND MODEL	HEATING	ELECTRICAL	REMARKS
FFH-1 (SUPPLIED BY MECH, INSTALLED BY ELEC)	ELECTRIC WALL FAN HEATER	STELPRO WF2008C24	2000W NOMINAL	208/1/60	416 WIDTH x 587 HEIGHT x 134 mm (16-3/8"W x 23-1/8"H x 5-5/16") DEEP. PROVIDE SURFACE MOUNT ADAPTER. PROVIDE WHITE RODGERS F29-0227 THERMOSTAT GUARD FOR WALL-MOUNTED TEMPERATURE SENSOR. CONTROL BY BAS.
EUH-1.1 EUH-1.2 (SUPPLIED BY MECH, INSTALLED BY ELEC)	FORCED FLOW ELECTRIC FAN HEATER	STELPRO RUH2CHAR	2000W NOMINAL	208/1/60	13-1/16"L X 12"W X 1-13/16"H 9KG UNIVERSAL WALL OR CEILING MOUNTING BRACKET INCLUDED THEMALLY PROTECTED WITH AUTOMATIC RESET. CONTROL BY BAS VIA WALL MOUNTED TEMPERATURE SENSOR.
UH-1	SEPARATED COMBUSTION LOW STATIC AXIAL FAN GAS UNIT HEATER	REZVOR UDZ300	INPUT / OUTPUT 300 / 249 MBH	115/1/60 11 FLA, 20 MOCP 1086 W	1041 WIDTH x 1016 DEEP x 867 HIGH 83% THERMAL-EFFICIENT GAS UNIT HEATER WITH SEPARATED COMBUSTION. 1813 L/s (3843 CFM), 1/2 HP FAN, 126 kg. PROVIDE 2-STAGE GAS CONTROL VALVE AND 409 STAINLESS STEEL HEAT EXCHANGER. CONTROL VIA BAS.
NOTES: 1. ELECTRIC FORCED FLOW HEATERS TO BE PROVIDED AND INSTALLED BY ELECTRICAL AND CONTROLLED BY BAS. SCHEDULE FOR INFORMATION PURPOSES ONLY.					

MAIN HEATING, COOLING AND VENTILATION EQUIPMENT SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER AND MODEL	ELECTRICAL	REMARKS
ERV	ENERGY RECOVERY VENTILATOR	RENEWARE EV PREMIUM X	120/1/60 2.7 FLA 15 MCA 15 MOCP  220 W INPUT	ENERGY RECOVERY VENTILATOR WITH EC SUPPLY AND EXHAUST FANS, MERV 8 FILTERS, 300 CFM @ 1.2". DIMENSIONS: 18" H X 29" W X 24" D. WEIGHT: 72 LBS. PROVIDE MAIN ERY CONTROLLER. 6347% WINTER/SUMMER EFF% AT 300 CFM  BALANCE FOR 142 L/s (300 CFM) SUPPLY AND 121 L/s (256 CFM) EXHAUST ON NORMAL MODE. BALANCE FOR 164 L/s (348 CFM) SUPPLY AND 140 L/s (297 CFM) EXHAUST ON HIGH SPEED MODE.
PH	ELECTRIC IN-LINE VENTILATION POST- HEATER	RENEWARE RH SERIES RH-W	208/1/60 24.0 A	13.5" D X 10.0" W X 11.5" L, 5 KW ELECTRIC RESISTANCE IN-LINE POST-HEATER C/W 10" DIA. COLLAR ON INLET AND OUTLETS. MINIMUM AIRFLOW 150 CFM AT 5 KW. OPEN NICKEL-CHROME ELEMENTS. AUTOMATIC LIMIT SWITCH FOR PRIMARY OVER-TEMPERATURE PROTECTION. MANUAL RESET LIMIT SWITCH FOR SECONDARY OVER-TEMPERATURE PROTECTION. AIRFLOW SENSOR, OUTPUT TEMPERATURE CONTROLLABLE THROUGH BAS. PROVIDE DUCT DISCHARGE TEMPERATURE SENSOR TO CONNECT TO BAS. INSTALL HEATER WITH MINIMUM 16" STRAIGHT RUNS OF SHEET METAL DUCT ON INLET AND OUTLET.
F-1	FORCED AIR FURNACE	CARRIER 59TP68060V17--14	115/1/60 10.9 A MAX INPUT 14.6 UNIT AMPACITY MOCP: 15A	TWO-STAGE NATURAL GAS FIRED FORCED AIR FURNACE WITH 96.3% AFUE, HIGH OUTPUT 58,000 BTU/H LOW OUTPUT 38,000 BTU/H. EXTERNAL STATIC PRESSURE OF 0.12 IN W.G. HEATING @1135 CFM AND 0.5 IN W.G. COOLING @1475 CFM. 3/4 HP ECM FAN MOTOR. INCLUDE SUITABLY SIZED CARRIER CONCENTRIC VENT KIT, 1/2" GAS CONNECTION. 146 LBS (66.2 KG) WEIGHT, 17- 1/2" W x 29-1/2" D x 35" H. PROVIDE CONDENSATE NEUTRALIZATION KIT.
CU-1	AIR CONDITIONING OUTDOOR UNIT	CARRIER 24ANB724A003	208/1/60 11.1 RLA COMPR. 58.3 LRA COMPR. 0.60 A FLA FAN 14.5 A MCA	MULTI-STAGE 2-TON AIR CONDITIONING CONDENSING UNIT WITH UPSIZED INDOOR 2.5-TON EVAPORATOR CNPV3117AL". PURON R-410A REFRIGERANT. 13 EER, 16 SEER.  242 LBS (110 KG) SHIP WEIGHT, 889 W x 889 D x 1199 H  CONTROL CIRCUIT IS 24V AND REQUIRES EXTERNAL POWER SOURCE TO BE PROVIDED BY DIVISION 16
AC-2	SERVER ROOM COOLING - INDOOR UNIT	MTSUBISHI PKA-A12H47	208/1/60 MCA: 1A FLA: 0.33 30 W FAN	5,800-12,000 BTU/H CAPACITY RANGE AT -40°C TO 46°C OUTDOOR TEMPERATURE. 320-370-425 DRY LOW-MID-HI AIRFLOW RATE, 290-335-380 WET LOW-MID-HI AIRFLOW RATE, 0.81 SHF. 12.0 EER, 20.8 SEER.  285 H x 898 W x 249 D. UNIT WEIGHT: 29 LBS (13 KG), 5/8" DIA. CONDENSATE DRAIN CONNECTION, 36-43 dB(A) SOUND PRESSURE LEVEL, R410A REFRIGERANT, 1/4" DIA LIQ, 1/2" DIA GAS LINES, GALVANIZED FINISH.  PROVIDE ONE CENTRALLY LOCATED PAR-33MA-J HARDWIRED CONTROLLER PER UNIT AND COORDINATE INSTALLATION LOCATION WITH ARCHITECT/OWNER. PROVIDE INTESIS BOX BACNET INTERFACE FOR BAS CONTROLLABILITY.  PROVIDE CONDENSATE PUMP IF GRAVITY DRAIN CANNOT BE ACCOMMODATED.
CU-2	SERVER ROOM COOLING - OUTDOOR UNIT	MTSUBISHI PUY-A12NKA7	208/1/60 MCA: 11A MOCP: 28A	INVERTER DRIVEN TWIN ROTARY COMPRESSOR, ECM OUTDOOR FAN, UNIT WEIGHT: 92 LBS (41 KG), 1/4" DIA LIQ, 1/2" DIA GAS LINES, DIMENSIONS: 630 H x 805 x 62 W x 300 D, R-410A REFRIGERANT.  PROVIDE MESCA WINDSCREENS FOR LOW AMBIENT OPERATION. PROVIDE 500 LBS MAX. WEIGHT CAPACITY, ADJUSTIBLE WIDTH OR ECO-FOOT MOUNTING FRAME. INSTALL CONDENSING UNIT MIN. 24" ABOVE GRADE.

HUMIDIFICATION EQUIPMENT SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER AND MODEL	ELECTRICAL	REMARKS
HUM	WALL-HUNG CARTRIDGE TYPE HUMIDIFIER	CONDAIR EL 010	208/1/60 18 A 25 A MOCP 3.7 Kw	0.9-4.9 kg/h STEAM CAPACITY. C/W 20-100% MODULATING CONTROL, DUCT MOUNTED DISTRIBUTOR ASD 18, REPLACEABLE CYLINDER, INTEGRAL BACKFLOW PREVENTION DEVICE (E.G. AIR GAP), AUTOMATIC FILL AND DRAIN CYCLES, EXTREME DRAIN WATER TEMPERING DOWN TO 49°C (120°F), MAX DRAIN RATE 6.1 LPM (1.5 GPM), BACNET IP INTERFACE. PROVIDE AIR PROVING SWITCH AND HIGH LIMIT SENSOR IN DUCT AND HUMIDISTAT IN SPACE. 670 H x 420 W x 364 D mm, 25 kg OPERATING WEIGHT.

MECHANICAL DESIGN BASIS - STAFF AREA		
AREA (GFA)		190 m <sup>2</sup> (2045 SQ. FT.)
WINTER CONDITIONS	INDOOR	70°F (21°C)
	OUTDOOR	-8°F (-22°C)
SUMMER CONDITIONS	INDOOR	75°F (24°C)
	OUTDOOR	87°F DB / 75°F WB (31/24°C)
ENVELOPE (MIN EFFECTIVE VALUES)	ABOVE GRADE WALL	R-20 (ft <sup>2</sup> ·°F·h/BTU)
	CONCRETE SLAB FLOOR	R-15 (ft <sup>2</sup> ·°F·h/BTU)
	ROOF (PITCHED)	R-34.2 (ft <sup>2</sup> ·°F·h/BTU)
	ROOF (FLAT)	R-30.3 (ft <sup>2</sup> ·°F·h/BTU)
WINDOWS (MAX VALUES)	U-VALUE, INSTALLED	0.47 BTU/(ft <sup>2</sup> ·°F·h)
	SHGC	0.23
HEATING (KBTU/H)	ENVELOPE	30.7
	INFILTRATION	14.4
	VENTILATION	6.5
	SAFETY FACTOR	10%
	TOTAL	56.8

MECHANICAL DESIGN BASIS - VEHICLE BAY		
AREA (GFA)		150 m <sup>2</sup> (1615 SQ. FT.)
WINTER CONDITIONS	INDOOR	64°F (18°C)
	OUTDOOR	-4°F (-20°C)
SUMMER CONDITIONS	OUTDOOR	87°F DB / 75°F WB (31/24°C)
	ABOVE GRADE WALL	R-20.7 (ft <sup>2</sup> ·°F·h/BTU)
ENVELOPE (MIN EFFECTIVE VALUES)	CONCRETE SLAB FLOOR	R-15 (ft <sup>2</sup> ·°F·h/BTU)
	ROOF	R-34.2 (ft <sup>2</sup> ·°F·h/BTU)

RADIANT TUBE HEATERS				
TAG	GAS INPUT (MBH)	MANUFACTURER AND MODEL	ELECTRICAL	REMARKS
RT-1/2	50 MBH LOW-FIRE 75 MBH HIGH-FIRE	BRANT RADIANT MP SERIES HL3-30-75N	120/1/60 4.8 A STARTING 1.1 A RUNNING	TWO STAGE LOW INTENSITY GAS-FIRED HEATER WITH CAPACITY FROM 50 TO 75 MBH, 32 FEET LENGTH, 60 INCH CLEARANCE TO COMBUSTIBLES TO BELOW. C/W BAFFLES, 6-14" INLET NG PRESSURE. EACH HEATER SHALL BE CONTROLLED BY MANUFACTURER'S PREMIUM USER INTERFACE MODULE CONNECTED TO BAS FOR MONITORING.

TANK SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER AND MODEL	ELECTRICAL	REMARKS
DWH-1	DOMESTIC WATER HEATER	A.O. SMITH CYCLONE MXI BTH-120A	120/1/60 15A	1410 mm HIGH x 705 mm DIAMETER (55-1/2" H x 27-3/4" DIAMETER), 227 L (60 USG), 180 PSI MAX WORKING PRESSURE, 220 kg SHIPPING WEIGHT, 35 kW (120,000 BTU/HR) INPUT. THERMAL EFFICIENCY 95%, 523 LPH (138 USG/H @ 100°F TEMPERATURE RISE, 3/4" NPT CONN. INCLUDES BTH-120 CONCENTRIC VENT KIT, 0" CLEARANCE TO COMBUSTIBLES. PROVIDE CONDENSATE NEUTRALIZATION KIT. PROVIDE FOR COMMUNICATION WITH BAS.
XT-1	DHW EXPANSION TANK	AMTROL THERM X-TROL ST-12C- DD	-	SERVES DWH-1. ASME DIAPHRAGM EXPANSION TANK, 24 L (6.4 USG) TANK VOLUME, 12 L (6.4 USG) ACCEPTANCE CAPACITY FOR POTABLE DOMESTIC HOT WATER, 200 CONN, 305 mm DIA x 457 mm HIGH, 12 kg SHIPPING WEIGHT.

DIFFUSER & GRILLE SCHEDULE			
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
A	600x600 SQUARE CONE DIFFUSER WITH ADJUSTABLE PATTERN CONTROLLER	EH PRICE SCDA	600 x 600 SQUARE STEEL 3-CONE DIFFUSER WITH ADJUSTABLE PATTERN CONTROLLER. WHITE POWDER COAT FINISH.
B	300x300 SQUARE CONE DIFFUSER WITH ADJUSTABLE PATTERN CONTROLLER	EH PRICE SCDA	300 x 300 SQUARE STEEL 3-CONE DIFFUSER WITH ADJUSTABLE PATTERN CONTROLLER. WHITE POWDER COAT FINISH.
C	EGG CRATE RETURN GRILLE	EH PRICE 80	HEAVY-GAUGE ALUMINUM 0" CORE, 13 mm x 13 mm x 13 mm DEPTH. SURFACE MOUNT ALUMINUM FRAME, WHITE POWDER COAT FINISH. PROVIDE FRAME FOR DRYWALL CEILINGS AND WHERE TERMINATION IS CONNECTED TO DUCT.
D	LINEAR SLOT DIFFUSER, CEILING	PRICE CF-1-1 DIFFUSER CFP-1-2 INSULATED PLENUM	LINEAR CUSTOM CLOW DIFFUSER, 2" ADJUSTA SLOT WIDTH X 1524MM, CONCEALED FRAME TYPE 22, TYPE XX MITERED ENDCAPS. PROVIDE PRICE ENGINEERED INSULATED PLENUMS FOR ALL DIFFUSERS, SERIES CFP WITH VCR8EC ROUND NECK CABLE-OPERATED DAMPER.
E	EGG CRATE RETURN GRILLE, ROUND	EH PRICE RECG	13 mm x 13 mm CORE ROUND EGG CRATE GRILLE.
F	ROUND CONE DIFFUSER	EH PRICE RCDE	2-POSITION ADJUSTABLE ROUND CONE STEEL DIFFUSER. STANDARD FINISH.
G	DOOR TRANSFER GRILLE	EH PRICE ATGH	HEAVY-DUTY SIGHT-PROOF ALUMINUM DOOR GRILLE.
L1	ALUMINUM VENT CAP	SEIHO SX	HEAVY DUTY ALUMINUM (0.025") OUTLET WITH CLEAR ANODIZED FINISH.
L2	DRAINABLE LOUVER	PRICE DE439	4" WIDE ALUMINUM DRAINABLE BLADES C/W BIRDSCREEN, CLEAR ANODIZED FINISH. CONFIRM MOUNTING DETAILS / BORDERS WITH ARCHITECT PRIOR TO ORDER.
NOTES: 1. SIZES AND QUANTITIES AS NOTED ON DRAWINGS. 2. COLOURS TO BE SELECTED FROM STANDARD FINISH CHART BY ARCHITECT. 3. EH PRICE, TITUS, AND NAILOR ARE ACCEPTABLE EQUALS TO SPECIFIED PRODUCTS.			

PUMP SCHEDULE					
TAG	SERVICE	DESCRIPTION	PERFORMANCE	MAKE AND MODEL	REMARKS
P-DHW	DHW RECIRCULATION PUMP	ECM HIGH-EFFICIENCY CIRCULATOR	2.3 GPM @ 6 FT. HEAD (MEDIUM SPEED)	TACO 008e3 ECM	0.54 A MAX 120/1/60 OUTLET REQUIRED  ECM HIGH-PERFORMANCE, VARIABLE SPEED, WET-ROTOR CIRCULATOR W/HIGH- EFFICIENCY ECM PERMANENT MAGNET TECHNOLOGY. MAX. FLOW: 11 GPM. MAX. SHUT OFF HEAD: 13 FEET. MAX. OPERATING PRESSURE: 150 PSI (10.3 BAR). COMPOSITE CASING, STATOR HOUSING, CARTRIDGE AND IMPELLER; MATERIALS SUITABLE FOR POTABLE WATER.

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1	ISSUED FOR TENDER	30 MAY 2025

PROJECT :

CLIENT

CONSULTANT

PROFESSIONAL SEAL

YORK REGION PRS #33  
RFTC-397-21  
2960 TESTON ROAD, VAUGHAN

YORK REGION

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

zon engineering inc

A: 465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
T: 888-538-6363  
W: WWW.ZONENGINEERING.COM

DWG TITLE

SCHEDULES

ORIENTATION

TRUE NORTH CONSTRUCTION NORTH

DATE

2020-06-10

SCALE

As indicated

DRAWN BY

ND

DWG STATUS :

DESIGN

PROJECT NO.

TBA1902

DRAWING NO.

M1.0

REVISION



PLUMBING FIXTURE SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER AND MODEL	TRIM	SERVICE					REMARKS
				DRAIN	VENT	DCW	DHW	ELEC.	
WC	FLOOR MOUNTED WATER CLOSET	AMERICAN STANDARD CHAMPION PRO RIGHT HEIGHT ELONGATED TOILET 211AA	AMERICAN STANDARD 5325.010	75mm (3")	38mm (1.5")	15mm (0.5")	N/A	N/A	4.8 LPF LOW CONSUMPTION FLOOR MOUNT TANK TYPE TOILET WITH M&P SCORE OF 1000 g, 768mm x 483mm x 785mm HIGH (30" x 19" x 31" HIGH), 419mm HIGH ADA HEIGHT SEAT, WHITE VITREOUS CHINA, ELONGATED BOWL, FULLY GLAZED 2-3/8" TRAPWAY, PROVIDE WHITE ELONGATED SLOW CLOSE PLASTIC SEAT AND COVER. PROVIDE QUARTER-TURN VALVE STOPS W/ 3" (75mm) CHROME NIPPLE ON SUPPLY.
L	LAVATORY COUNTERTOP SINK	AMERICAN STANDARD MEZZO 9960.803	CHICAGO FAUCETS 420-T41E2805ABCP	32mm (1.25")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	482mm x 381mm x 175mm DEEP (19" x 15" x 6-7/8" DEEP) SEM-COUNTERTOP SELF-RIMMING SINK c/w REAR OVERFLOW, 3-HOLE FAUCET ON 100mm (4") CENTERS, WHITE CHINA, DECK MOUNTED LOW-LEAD FAUCET WITH 4" FIXED CENTERS, VANDAL PROOF PRESSURE COMPENSATING NON-AERATING 1.9 LPM (0.5 GPM) OUTLET, VANDAL PROOF SINGLE-LEVER HANDLE, ADA COMPLIANT, PROVIDE OFFSET STRAINER, CAST BRASS P-TRAP W/CLEANOUT, POLISHED CHROME ESCUTCHEON PLATE AND QUARTER-TURN VALVE STOPS W/ 3" CHROME NIPPLE.
SH	BARRIER-FREE SHOWER	TILED ENCLOSURE BY ARCHITECTURAL TRADES	CHICAGO FAUCETS 1907-620LCP CHICAGO FAUCETS 152-LADCP CHICAGO FAUCETS 763-CP WATTS SDNB-SQ	50mm (2")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	POLISHED CHROME THERMOSTATIC/PRESSURE BALANCING WALL-MOUNTED SHOWER VALVE C/W VALVE CARTRIDGE, 15mm (0.5") NPT COPPER HOT AND COLD SUPPLY INLETS AND OUTLETS, INTEGRAL SERVICE STOPS C/W CHECKS TO PREVENT CROSS-FLOW, 5.7 LPM (1.5 GPM) AT 80 PSI WALL-MOUNTED CHROME SHOWER HEAD WITH BALL JOINT, CHROME PLATED WALL-MOUNTED HAND SHOWER, 5.7 LPM (1.5 GPM) FLOWRATE C/W INTEGRAL AIR VENT, 24" ADA GRAB BAR, 15 mm (0.5") FEMALE INLET, 152mm (6") FLEXIBLE METAL HOSE C/W AUTO-DRAIN HOSE ASSEMBLY, CHROME PLATED BRASS 1/2" DIAPHRAGM VALVE, HEAVY DUTY SHOWER FLOOR DRAIN EPOXY COATED CAST IRON BODY WITH HEAVY DUTY SQUARE CHROME PLATED NICKEL BRONZE STRAINER.
S-1	COUNTERTOP SINK	FRANKE LBD4410P-1	CHICAGO FAUCETS 434-ABCP	38mm (1.5")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	356mm x 356 mm x 254 mm DEEP (14" x 14" x 10" DEEP) DOUBLE BOWL COUNTERTOP MOUNT SINK WITH REAR LEDGE, 478mm x 784 mm (19" x 31") OVERALL DIMENSIONS, 18 GA. TYPE 304 STAINLESS STEEL, SINGLE CUSTOM HOLE AT CENTRE REAR, SELF-RIMMING, SATIN FINISH C/W FOR EACH BOWL 89mm (3-1/2") WASTE ASSEMBLY W/ 38mm (1-1/2") TAILPIECE, DECK MOUNTED CHROME PLATED LOW-LEAD SINGLE-HANDLE PULL OUT SPRAY FAUCET, 5.7 LPM (1.5 GPM) FLOW RATE, PROVIDE INLINE CHECK VALVES FOR BOTH HOT AND COLD LINES, QUARTER-TURN ANGLE STOPS, FLEXIBLE METAL RISERS, P-TRAP AND CHROME PLATED ESCUTCHEON PLATES.
S-2	STAINLESS STEEL FREE STANDING DOUBLE COMPARTMENT SINK WITH DRAINBOARD	NELLA 43770	CHICAGO FAUCETS S10-G613L12XKCB	38mm (1.5")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	1435 mm W x 597 mm D x 1111 mm H (56.5"x23.5"x44") DOUBLE BASIN (457 mm W x 457 mm D x 279 mm H (18" x 18" x 11") EACH BASIN), 18 GA. STAINLESS STEEL SCULLERY SINK - POLISHED SATIN FINISH C/W ROLLED RIM, 89mm (3-1/2") CRUMB CUP STRAINER, 38mm (1-1/2") BRASS TAILPIECE, STAINLESS STEEL TUBULAR LEGS, INTEGRAL 229mm (9") HIGH STAINLESS STEEL BACKSPLASH, 1,111 mm (44") TOTAL HEIGHT, RIGHT-HAND STAINLESS STEEL DRAINBOARD FOR SINK, CHROME PLATED WALL-MOUNTED TWO HANDLE FAUCET, 203mm (8") CENTERSET, SOLID BRASS BODY, QUARTER TURN LEVER HANDLES / CERAMIC DISC VALVE CARTRIDGES C/W INTEGRATED CHECK VALVE, C/W TUBULAR 241 mm (9-1/2") SWING SPOUT WITH LEVER HANDLE, 3.8 LPM (1.0 GPM) PRE-RINSE PULL-DOWN ADJUSTABLE SPRAY WITH 90-LABCP PRE-RINSE SPRAY VALVE, PROVIDE QUARTER-TURN ANGLE STOPS, FLEXIBLE METAL RISERS, P-TRAP AND CHROME PLATED ESCUTCHEON PLATES.
MS	SERVICE / MOP SINK	STERN WILLIAMS SB-802	CHICAGO FAUCETS 897-XK-CP STERN WILLIAMS T-35 STERN WILLIAMS T-40 STERN WILLIAMS BP BACK SPLASH PANEL	50mm (2")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	610mm (24") WIDE x 610mm (24") x 305mm (12") HIGH FLOOR MOUNTED TERRAZZO SERVICE MOP SINK WITH REAR AND LEFT WALL TILING FLANGE, CAST BRASS DRAIN W/STAINLESS STEEL STRAINER, 76mm (3") OUTLET, PROVIDE 914mm (36") LONG HOSE W/ 19mm (3/4") CHROME COUPLING AND STAINLESS STEEL WALL BRACKET, STAINLESS STEEL 610mm (24") MOP HANGER W/ 3 RUBBER SPRING LOADED GRIPS, 20 GA. TYPE 304 STAINLESS STEEL BACKSPLASH PANEL AND TRAP, CHROME PLATED WALL-MOUNTED TWO HANDLE FAUCET, 203mm (8") CENTERSET, SOLID BRASS EXPOSED BODY, QUARTER TURN CERAMIC DISC VALVE CARTRIDGES, UNRESTRICTED HOSE END OUTLET, 203mm (8") PROJECTION SPOUT W/ ATMOSPHERIC VACUUM BREAKER AND BUCKET HOOK, 80mm (2-3/8") METAL VANDAL PROOF LEVER HANDLES W/RED AND BLUE INDEX BUTTONS.
EW	EYEWASH	BRADLEY S19224	NAVIGATOR S19-2000 EFX8	32mm (1.25")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	WALL-MOUNTED BARRIER-FREE EYE/FACE WASH STATION C/W PUSH-HANDLE ACTIVATED 19.2 LPM (5.1 GPM) EYE AND FACE SPRAY W/ CLEAR PLASTIC FLIPTOP DUST COVER, POWDER COATED CAST ALUMINUM FLAG HANDLE ACTIVATION, 13mm (1/2") IPS CHROME PLATED BRASS STAY-OPEN BALL VALVE W/TEFLON SEAL, HEAVY DUTY CAST ALUMINUM WALL BRACKET W/ CORROSION RESISTANT FINISH, 32mm (1-1/4") NPT FEMALE OUTLET, PROVIDE VANDAL-RESISTANT TEMPERATURE ADJUSTABLE EMERGENCY THERMOSTATIC MIXING VALVE, WITH COLD WATER BYPASS, DIAL THERMOMETER, 26 LPM (7 GPM) FLOW CAPACITY @ 30 PSI, PROVIDE HEAVY DUTY CAST BRASS P-TRAP W/ADJUSTABLE BODY, SLIP NUT, 32mm (1-1/4"), SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND.
HR	HOSE REEL	REELCRAFT D83075-OLP	VIKAN 93244 HEAVY DUTY WATER GUN	N/A	N/A	15mm (0.5")	15mm (0.5")	N/A	206 mm WIDE x 610 mm HIGH x 645 mm DEEP (8-1/8" WIDE x 24" HIGH x 25-3/8" DEEP) WALL-MOUNTED HEAVY DUTY SPRING-RETRACTABLE HOSE REEL c/w 23 m (75'-0") MEDIUM DUTY 20mm (3/4") HOSE, 20mm (3/4") DCW & DHW ISOLATION VALVES UPSTREAM OF THERMOSTATIC MIXING VALVE, HEAVY DUTY WATER GUN WITH ADJUSTABLE PRESSURE AND JET PATTERN, ADJUSTABLE BEAM, 8 GPM AT 80 PSI.
NFHB	EXPOSED NON-FREEZE, ANTI-SIPHON, AUTO DRAINING EXTERIOR WALL HOSE BIBB	AS PER SPEC.	-	N/A	N/A	20mm (0.75")	N/A	N/A	VANDAL RESISTANT C/W INTEGRAL VACUUM BREAKER, LOCKING AND LATCHING COVER, ROD CASING SUITABLE FOR WALL THICKNESS, CENTRE APPROX 30" (750mm) ABOVE OUTSIDE GRADE & PROVIDE INTERIOR SHUT-OFF VALVE C/W DRAIN PORT WHERE INDICATED ON PLANS.
HB	EXPOSED ANTI-SIPHON, AUTO DRAINING INTERIOR WALL HOSE BIBB	AS PER SPEC.	-	N/A	N/A	20mm (0.75")	20mm (0.75")	N/A	VANDAL RESISTANT c/w INTEGRAL VACUUM BREAKER, CENTER APPROX 30" (750mm) A.F.F.
FD FFD HD	FLOOR DRAIN / FUNNEL FLOOR DRAIN / HUB DRAIN	AS PER SPEC.	-	75mm (3") OR PER PLAN	38mm (1.5")	C/W TRAP PRIME LINE	N/A	N/A	SELECTION TO SUIT FLOOR FINISH AND APPLICATION c/w TRAP PRIMER LINE.
ETP	ELECTRONIC TRAP PRIMER	AS PER SPEC.	-	N/A	N/A	20mm (0.75")	N/A	120/1/60	ELECTRONIC TRAP PRIMER MANIFOLD FOR MULTIPLE TRAPS AS SUITED TO PROJECT.
1. COLOUR OF ALL VITREOUS CHINA FIXTURES TO BE WHITE. 2. EXACT LOCATION INCLUDING INSTALLATION HEIGHT OF ALL FIXTURES TO BE DETERMINED BY ARCHITECT. 3. EXACT QUANTITY OF FIXTURES AS INDICATED ON PLANS. 4. WALL-HUNG FIXTURES COMPLETE WITH CARRIERS.									

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1	ISSUED FOR TENDER	30 MAY 2025

PROJECT :

YORK REGION PRS #33  
RFTC-397-21  
2960 TESTON ROAD, VAUGHAN

CLIENT



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

CONSULTANT



zon engineering inc

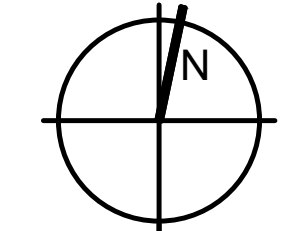
A: 465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
T: 888-538-6363  
W: WWW.ZONENGINEERING.COM

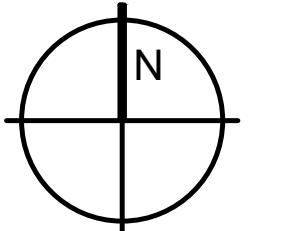
PROFESSIONAL SEAL

DWG TITLE

SCHEDULES

ORIENTATION





TRUE NORTH

CONSTRUCTION NORTH

DATE

2020-06-10

SCALE

As indicated

DRAWN BY

ND

DWG STATUS :

DESIGN

PROJECT No.

TBA1902

DRAWING No.

M1.1

REVISION



ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1	ISSUED FOR TENDER	30 MAY 2025

# YORK REGION PRS #33 RFTC-397-21

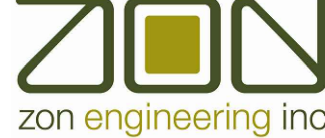
2960 TESTON ROAD, VAUGHAN

PROJECT :

CLIENT



CONSULTANT



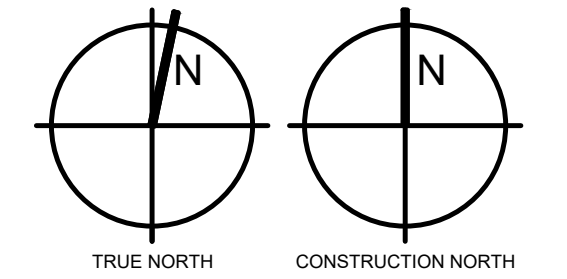
A 465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
T 888-538-6363  
W WWW.ZONENGINEERING.COM

PROFESSIONAL SEAL

DWG TITLE

## PLUMBING & DRAINAGE

ORIENTATION



DATE 2020-06-10

SCALE As indicated DRAWN BY ND

DWG STATUS:

## DESIGN

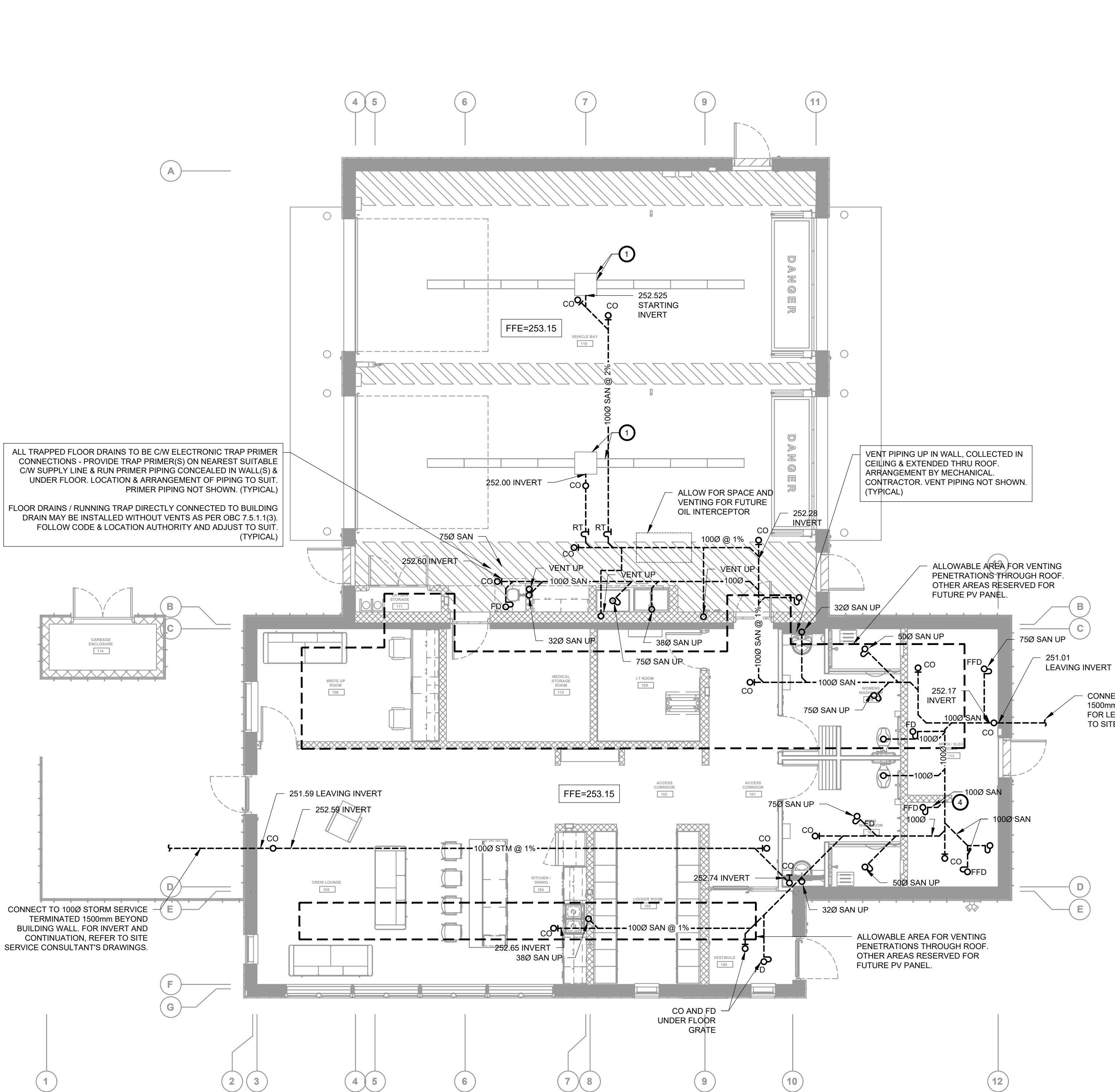
PROJECT No.

TBA1902

DRAWING No.

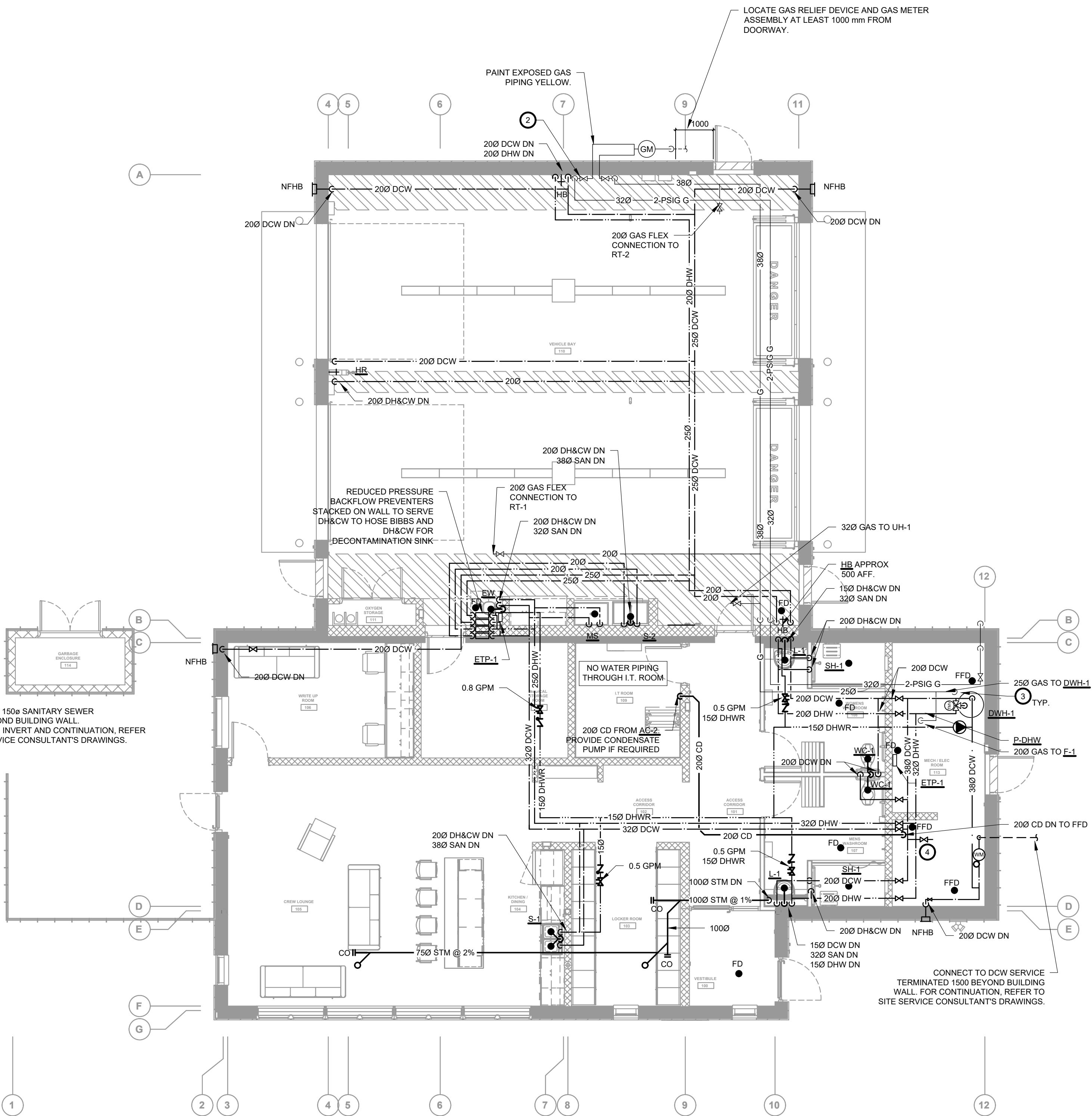
M2.0

REVISION



PLUMBING & DRAINAGE PLAN UNDERSLAB DRAINAGE

1:75



PLUMBING & DRAINAGE PLAN FIRST FLOOR

1:75

### NOTES ON THIS DRAWING:

- TRENCH DRAINS AND CATCH BASINS BY ARCHITECTURAL TRADES. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. PLUMBER SHALL COORDINATE WITH ARCHITECTURAL TRADES THE DRILLING OF THE CATCH BASIN FOR OUTLET PIPING.
- PROVIDE PERMANENT SIGN CLEARLY INDICATING WHICH VALVE AND PIPING SERVES THE GAS GENERATOR. MOUNT INDOOR GAS VALVES APPROXIMATELY 2100 AFF.
- PROVIDE FLEXIBLE GAS CONNECTIONS AT GAS EQUIPMENT/APPLIANCE. (TYPICAL)
- PROVIDE COLD WATER CONNECTIONS FOR HUMIDIFIER AND ITS DRAIN COOLER AS PER MANUFACTURER INSTRUCTIONS. PROVIDE FUNNEL FLOOR DRAIN FOR HUMIDIFIER DRAINAGE AND DRAIN COOLER DRAINAGE.

### GENERAL NOTES FOR PLUMBING SYSTEMS:

- UNLESS OTHERWISE INDICATED, SIZES SHOWN ARE IN MILLIMETERS (mm). DO NOT SCALE MECHANICAL DRAWINGS. FOR DIMENSIONS, REFER TO ARCHITECTURAL DRAWINGS.
- PROVIDE WATER, SANITARY & VENT PIPING TO ALL FIXTURES ACCORDING TO ONTARIO BUILDING CODE REQUIREMENTS & C/W TRAPS, TRAP PRIMING DEVICES, ISOLATION VALVES, ETC. NOTE THAT IN SOME CASES, BRANCH PIPING TO FIXTURES HAS NOT BEEN INDICATED. ALL SUCH PIPING SHALL BE PROVIDED ACCORDING TO CODE REQUIREMENTS (WHERE APPLICABLE, REFER TO RISER DIAGRAMS FOR ADDITIONAL DETAILS).
- UNDERGROUND BRANCH SANITARY PIPING TO STAINLESS STEEL SINKS SHALL BE MINIMUM 50mm DIA.
- ALL WATER, SANITARY & VENT BRANCH PIPING TO INDIVIDUAL FIXTURES SHALL BE SIZED IN ACCORDANCE WITH THE DRAWINGS ENCLOSED HEREIN & TO OBC REQUIREMENTS UNLESS OTHERWISE NOTED. SANITARY PIPE SIZES / ARRANGEMENT MAY BE ALTERED TO SUIT VENTING REQUIREMENTS PROVIDED OBC REQUIREMENTS ARE MET.
- VERIFY THE EXACT LOCATION, INVERTS, SIZES, ETC. OF ALL SERVICE PIPING PRIOR TO NEW INSTALLATIONS. INVERTS SHOWN ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED.
- MECHANICAL SERVICES, DEVICES AND/OR EQUIPMENT PENETRATING FIRE SEPARATION(S), INCLUDING THOSE REQUIRED TO HAVE A FIRE RESISTANCE RATING (45 MIN, 1 HR, 2 HR, ETC.) AND THOSE NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING (ZERO-RATED, NON-RATED OR SIMILAR), SHALL BE TIGHTLY FITTED & CAULKED TO CONTROL SMOKE SPREAD IN COMPLIANCE W/ OBC & ASSOCIATED STANDARDS TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION.
- MECHANICAL SERVICES, DEVICES AND/OR EQUIPMENT PENETRATING FIRE SEPARATIONS REQUIRED TO HAVE FIRE RESISTANT RATING (45 MIN, 1 HR, 2 HR, ETC.) SHALL BE PROVIDED W/ APPROVED FIRE STOP DEVICES & METHODS IN COMPLIANCE W/ OBC & ASSOCIATED STANDARDS TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION.
- PIPING, INSULATION & OTHER MATERIALS INSTALLED WITHIN AIR DUCTS, CEILING RETURN AIR PLENUMS AND DUCT CHASES USED AS AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25 AND 50, RESPECTIVELY. ABS/PVC PIPING, WOOD FRAMING, FT-4/CMR WIRING & SIMILAR MATERIALS ARE NOT PERMITTED AND SHALL BE SEPARATED FROM PLENUM BY DRYWALL OR SIMILAR MEANS (TYPICAL).
- CO-ORDINATE ALL SERVICES WITH EACH DIVISION BEFORE INSTALLATION OF PIPES, DUCTS, ETC. ROUTE PIPING ON-SITE TO CLEAR DUCTWORK, BUILDING STRUCTURE, ETC. DRAWINGS ARE SCHEMATIC IN NATURE - ALL WORK MUST BE CO-ORDINATED ON-SITE.



THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS REMAIN THE COPYRIGHT PROPERTY OF THOMAS BROWN ARCHITECT INC. AND MUST BE RETURNED UPON COMPLETION OF THE WORK.		
ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1	ISSUED FOR TENDER	30 MAY 2025

PROJECT :  
CLIENT  
CONSULTANT  
PROFESSIONAL SEAL

# YORK REGION PRS #33 RFTC-397-21

2960 TESTON ROAD, VAUGHAN

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

zon engineering inc  
465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
888-538-6363  
WWW.ZONENGINEERING.COM

DWG TITLE  
HVAC

ORIENTATION

TRUE NORTH CONSTRUCTION NORTH

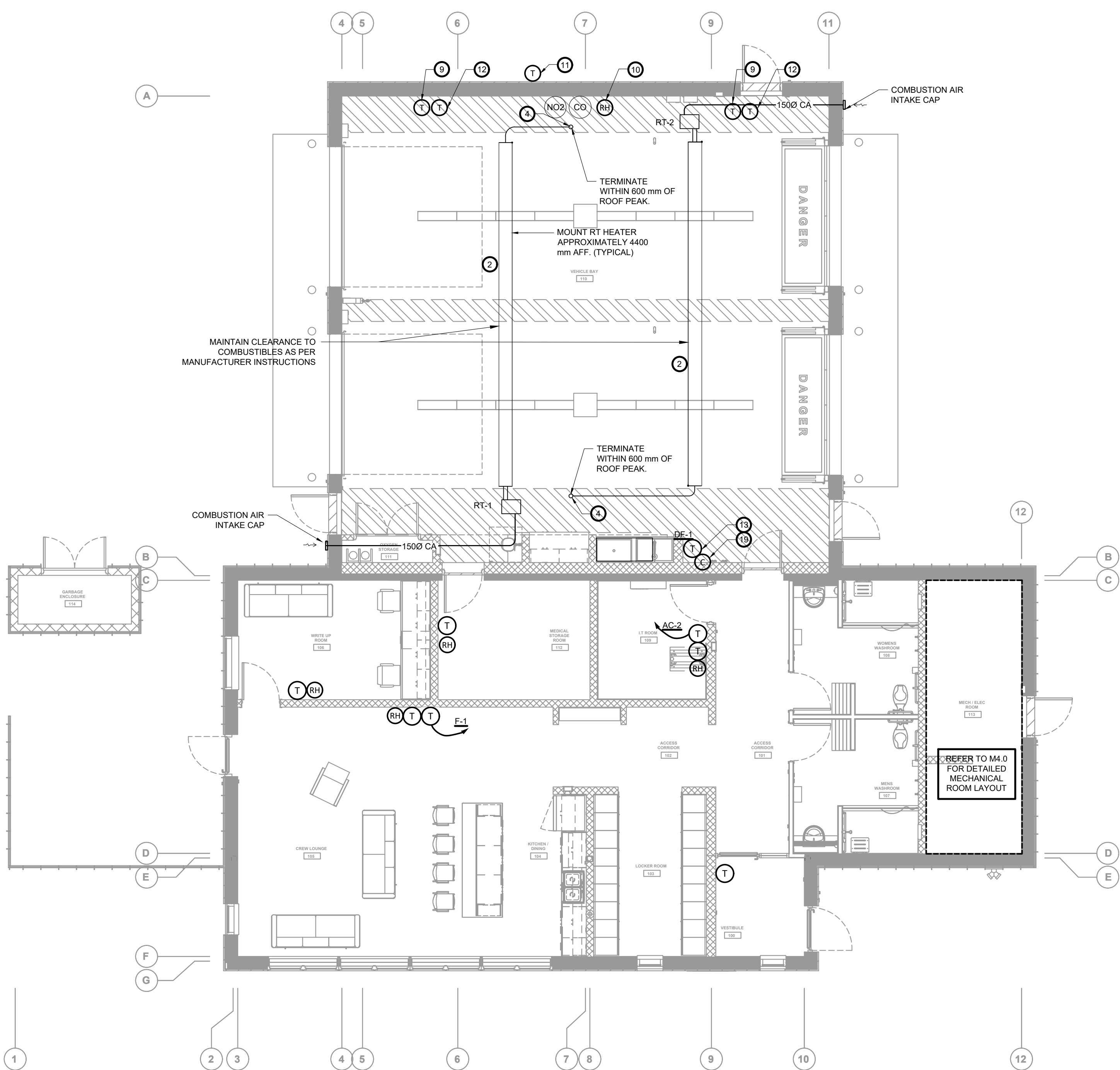
DATE 2020-06-10

SCALE As indicated DRAWN BY ND

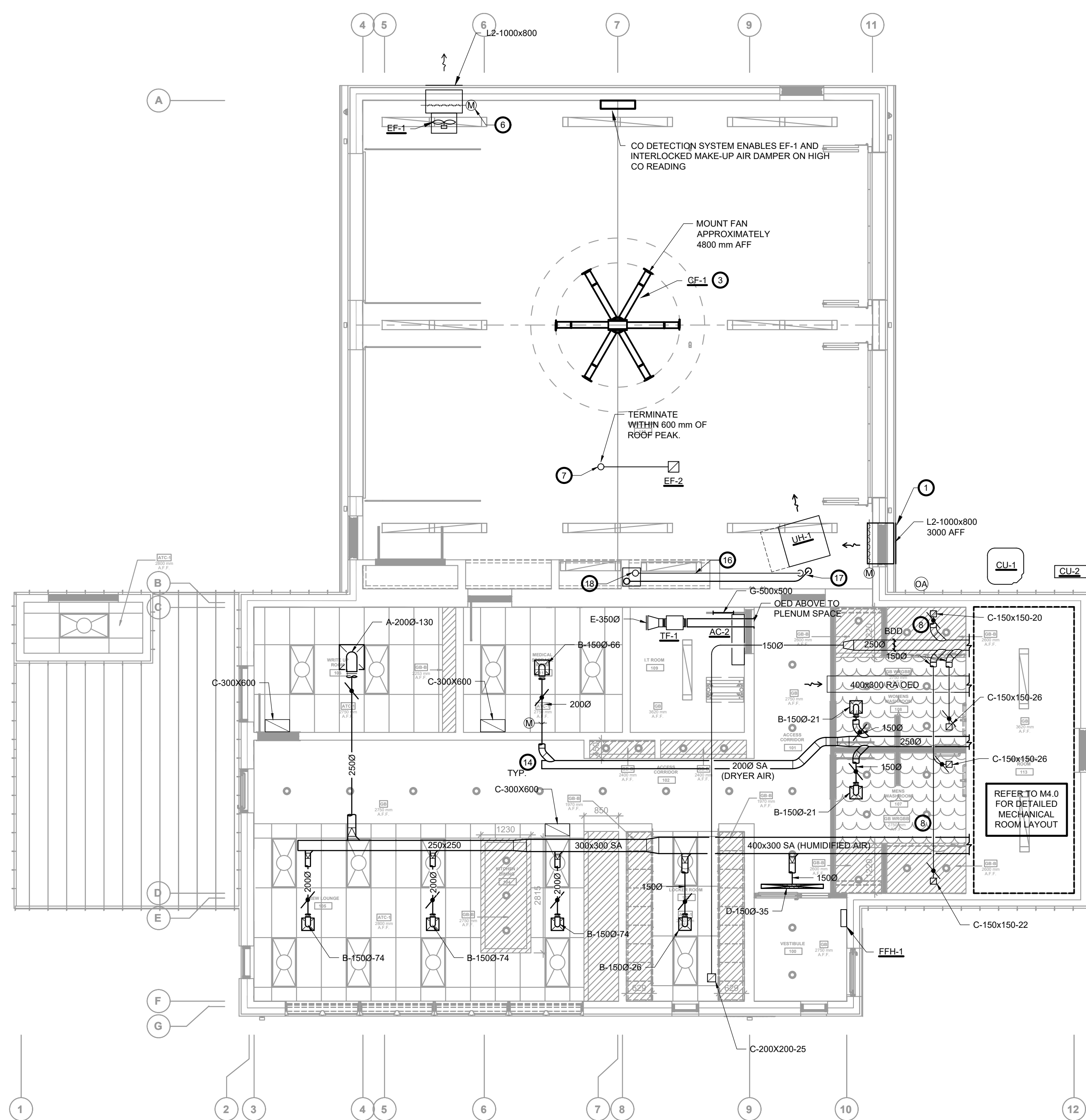
DWG STATUS: DESIGN

PROJECT No. TBA1902

DRAWING No. M3.0 REVISION



HVAC PLAN  
FIRST FLOOR  
1:75



HVAC PLAN  
REFLECTED CEILING PLAN  
1:75

NOTES ON THIS DRAWING:

- 1000x800 OA LOUVRE C/W INSULATED OPPOSING BLADE MOTORIZED DAMPER INTERLOCKED W/ EF-1 AND CONNECTED TO BAS AND COINQ VENTILATION SYSTEM FOR VEHICLE BAY. COORDINATE HEIGHT W/ ARCHITECTURAL. PROVIDE SUPPLY LINE VOLTAGE ACTUATOR (SPRING RETURN TYPE), WIRING BY ELECTRICAL TRADES.
- AS PER RADIANT TUBE HEATER MANUFACTURER'S GUIDELINES, MAINTAIN CLEARANCE TO COMBUSTIBLES INCLUDING BUT NOT LIMITED TO: FAN, GAS PIPING, WATER PIPING, TOP OF AMBULANCES.
- INTERLOCK HVLS FAN WITH FIRE ALARM SYSTEM TO SHUT DOWN UPON WATERFLOW ALARM AS PER NFPA 13.
- 1000 GAS VENT UP THROUGH ROOF, TERMINATING 600 mm ABOVE NEARBY ROOF HIGH POINT, C/W ROOF TERMINATION CAP.
- NOT USED
- 120 V LINE VOLTAGE ACTUATOR PROVIDED BY MECHANICAL, WIRING BY ELECTRICAL.

- TERMINATE 1500 VENTILATION EXHAUST THROUGH ROOF WITH ROOF CAP TERMINATION, OPEN END TERMINATING 500 mm ABOVE NEARBY ROOF PEAK. LOCATE AIR INLET AS HIGH AS POSSIBLE.
- PROVIDE ALUMINUM DUCT FROM SHOWER EXHAUST GRILLE TO TRUNK DUCT
- PROVIDE BLACK BULB RADIANT TEMPERATURE SENSOR, WIRED TO BAS.
- PROVIDE RELATIVE HUMIDITY SENSOR, WIRED TO BAS.
- PROVIDE OUTDOOR AIR TEMPERATURE SENSOR, WIRED TO BAS.
- AIR TEMPERATURE SENSOR.
- PROVIDE TEMPERATURE SENSOR LOCAL TO UNIT HEATER UH-1, WIRED TO BAS.
- LOCATE END CAPS 600 mm DOWNSTREAM OF LAST TAKE-OFF BRANCH. (TYPICAL)
- MOUNT UNIT AT APPROXIMATELY 2800 mm AFF.

- 1500 GAS VENT. INSULATE ENTIRE LENGTH OF VENT PIPING TO CONCENTRIC VENT BOX WITH 1" FOIL FACED MINERAL WOOL INSULATION.
- PROVIDE MANUFACTURER'S MINIMUM STRAIGHT LENGTH FROM UNIT. PROVIDE TEE WITH DRIP LEG C/W ACCESSIBLE CLEANOUT CAP AT LOW POINT.
- CONCENTRIC VENT TERMINATION. INSTALL BOTTOM OF INLET AT 450 mm ABOVE PARAPET LEVEL. INSTALL BOTTOM OF EXHAUST TERMINAL 450 mm ABOVE INLET. LOCATE ROOF INLET/OUTLET SUCH THAT THERE IS ADEQUATE DISTANCE FROM RADIANT TUBE VENT (REFER TO MANUFACTURER INSTRUCTIONS), LEAVES SPACE FOR FUTURE SOLAR PV, AND WITHIN MANUFACTURER MAXIMUM LENGTH FROM UH.
- HVLS FAN CONTROLLER LOCATION.

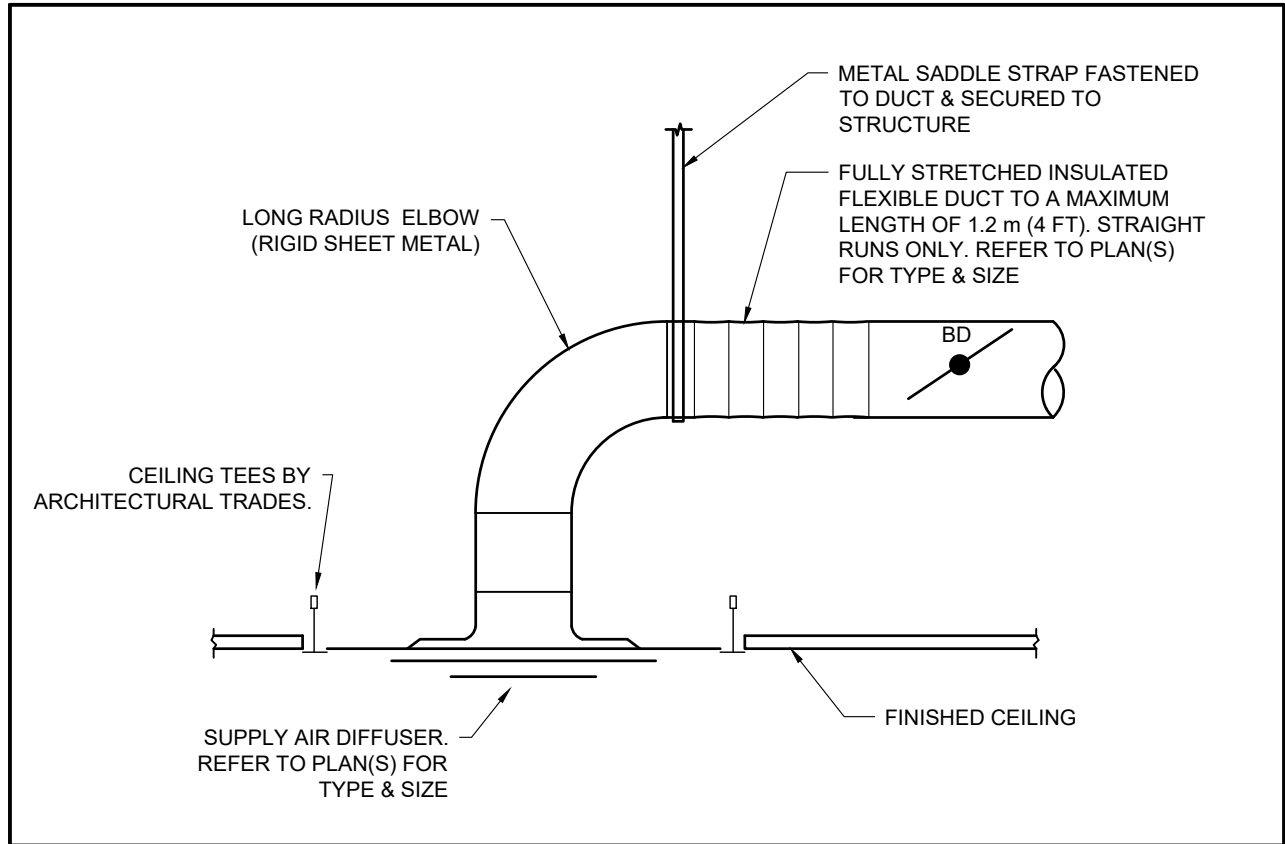
GENERAL NOTES FOR HVAC SYSTEMS:

- UNLESS OTHERWISE INDICATED, SIZES SHOWN ARE MILLIMETERS (mm). DO NOT SCALE MECHANICAL DRAWINGS. FOR DIMENSIONS, REFER TO ARCHITECTURAL DRAWINGS.
- MECHANICAL SERVICES, DEVICES &/OR EQUIPMENT PENETRATING FIRE SEPARATION(S), INCLUDING THOSE REQUIRED TO HAVE A FIRE RESISTANCE RATING (45 MIN, 1 HR, 2 HR, OR SIMILAR) AND THOSE NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING, (ZERO-RATED, NON-RATED OR SIMILAR), SHALL BE TIGHTLY FITTED & CAULKED TO CONTROL SMOKE SPREAD IN COMPLIANCE W/ NBC & ASSOCIATED STANDARDS AND TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION. FOR FIRE DAMPERS / FIRE FLAPS, INSTALL RETAINING ANCHORS TIGHT TO WALL / FLOOR / CEILING SO AS TO RETARD THE PASSAGE OF SMOKE BUT DO NOT CAULK AROUND ANGLES UNLESS APPROVED BY DAMPER MANUFACTURER.
- MECHANICAL SERVICES, DEVICES &/OR EQUIPMENT PENETRATING FIRE SEPARATIONS REQUIRED TO HAVE FIRE RESISTANT RATING, (45 MIN, 1 HR, 2 HR, OR OTHERWISE), SHALL BE PROVIDED W/ APPROVED FIRE STOP DEVICES & METHODS IN COMPLIANCE W/ NBC & ASSOCIATED STANDARDS AND TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION.
- PIPING, INSULATION & OTHER MATERIALS INSTALLED WITHIN AIR DUCTS, CEILING RETURN AIR PLENUMS AND DUCT CHASES USED AS AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25 AND 50 RESPECTIVELY. ABS/PVC PIPING, WOOD FRAMING, FT-4/CMR WIRING & SIMILAR MATERIALS ARE NOT PERMITTED AND SHALL BE SEPARATED FROM PLENUM BY DRYWALL OR SIMILAR MEANS (TYPICAL).
- GENERAL WORK INCLUDING FURRED IN PIPE & DUCT SPACES TO BE PROVIDED BY ARCH TRADES UNLESS OTHERWISE INDICATED.
- PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT, EXCEPT CEILING MOUNTED FANS W/ CAPACITIES LESS THAN 150 CFM (70 L/S)
- CO-ORDINATE ALL SERVICES WITH EACH DIVISION BEFORE INSTALLATION OF DIFFUSERS/GRILLES, DUCTWORK, PIPING, ETC. ROUTE NEW SERVICES ON SITE TO CLEAR BUILDING STRUCTURE, ETC. DRAWINGS ARE SCHEMATIC IN NATURE - ALL WORK MUST BE CO-ORDINATED ON SITE.
- REFLECTED CEILING PLANS SHOWN ARE FOR GENERAL COORDINATION ONLY. REFER TO ARCHITECTURAL RCP PLANS FOR COORDINATION OF EXACT LOCATIONS OF AIR DIFFUSERS/GRILLES.



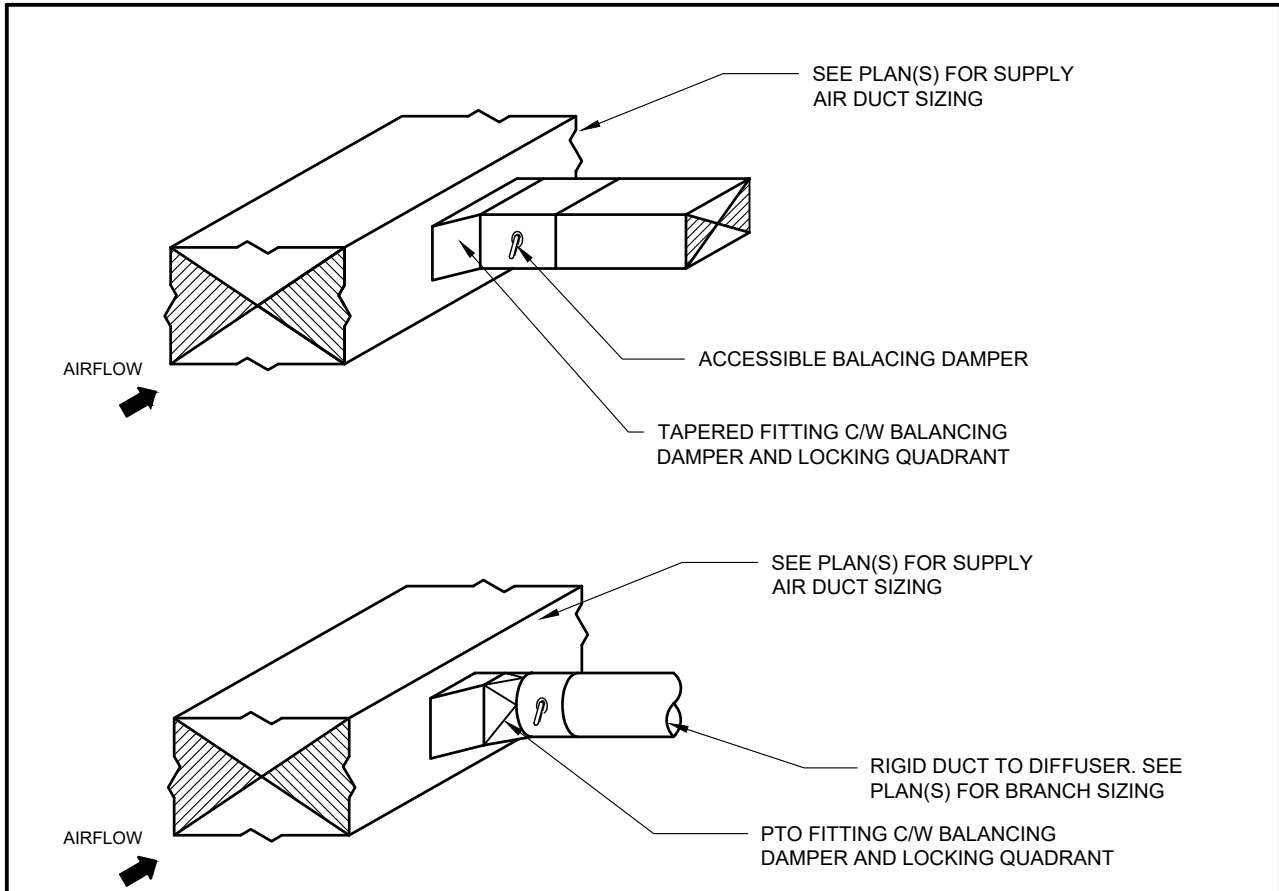






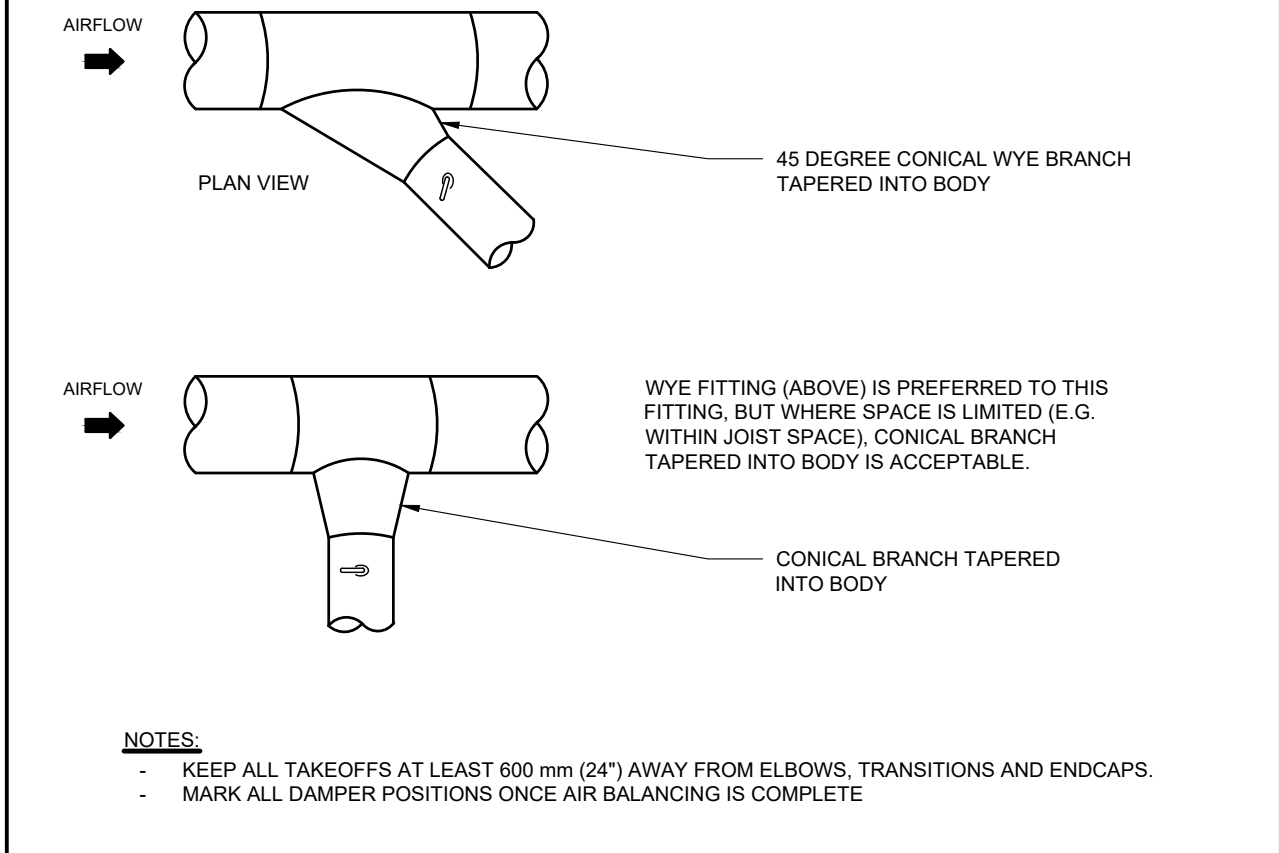
DETAIL  
TRANSFER AIR DUCT

NTS



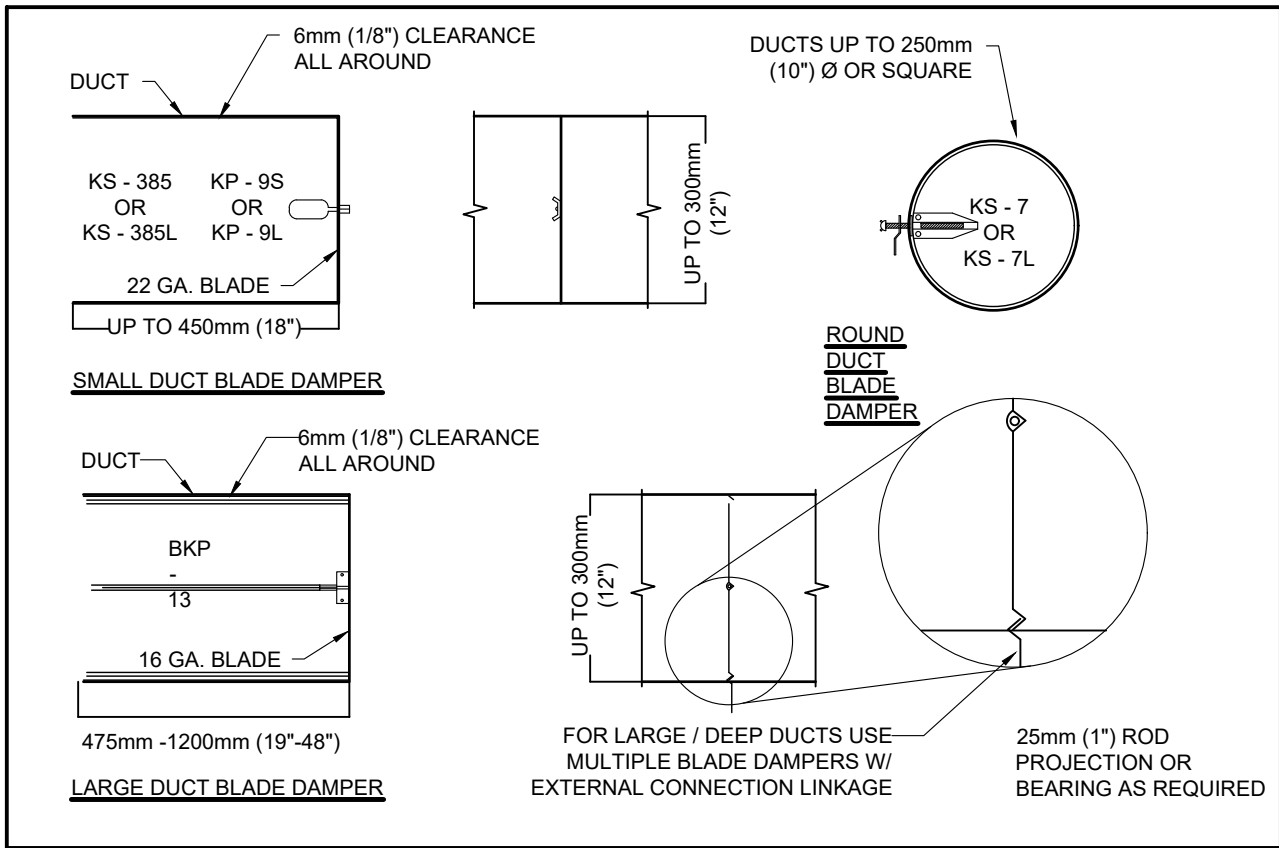
DETAIL  
TYPICAL / ACCEPTABLE SIDE BRANCH TAKE-OFFS

NTS



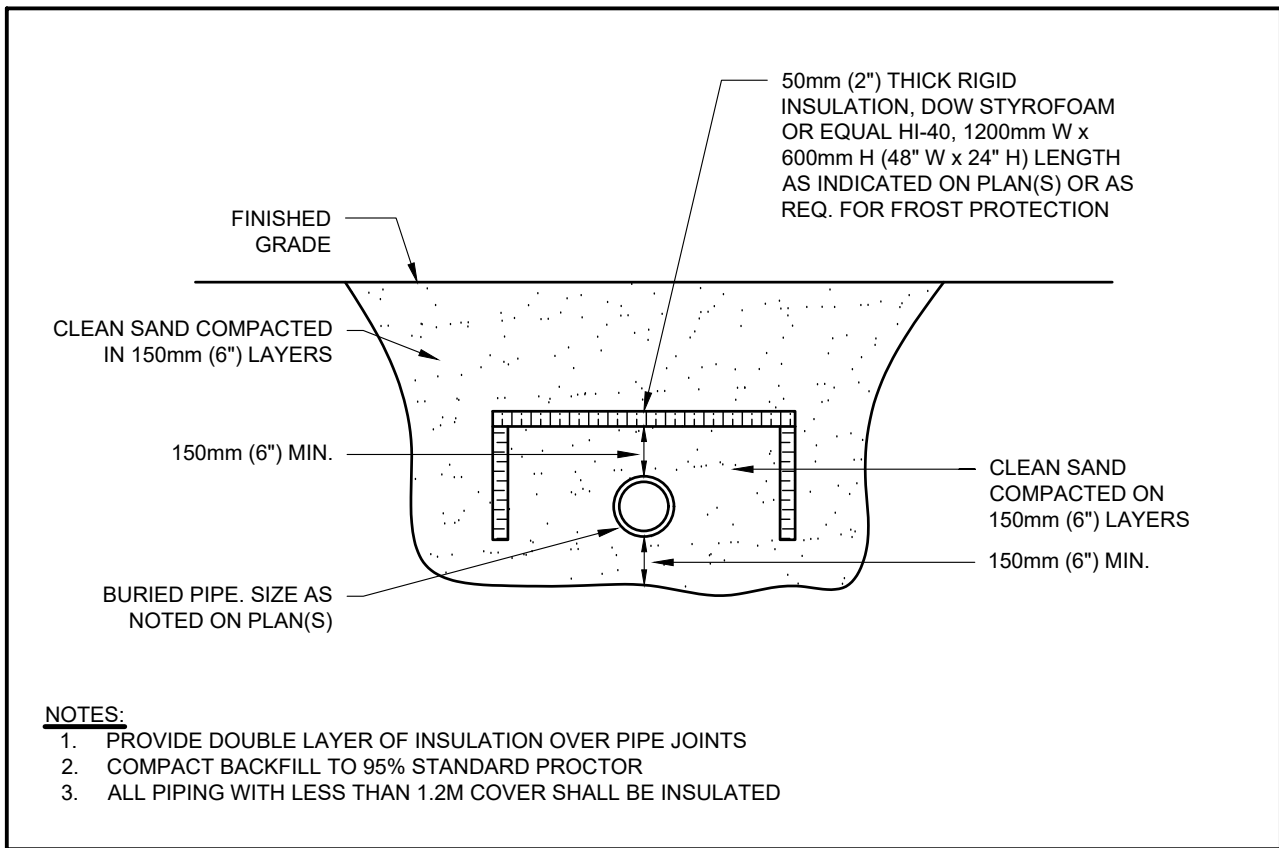
DETAIL  
TYPICAL / ACCEPTABLE SIDE BRANCH TAKE-OFFS

NTS



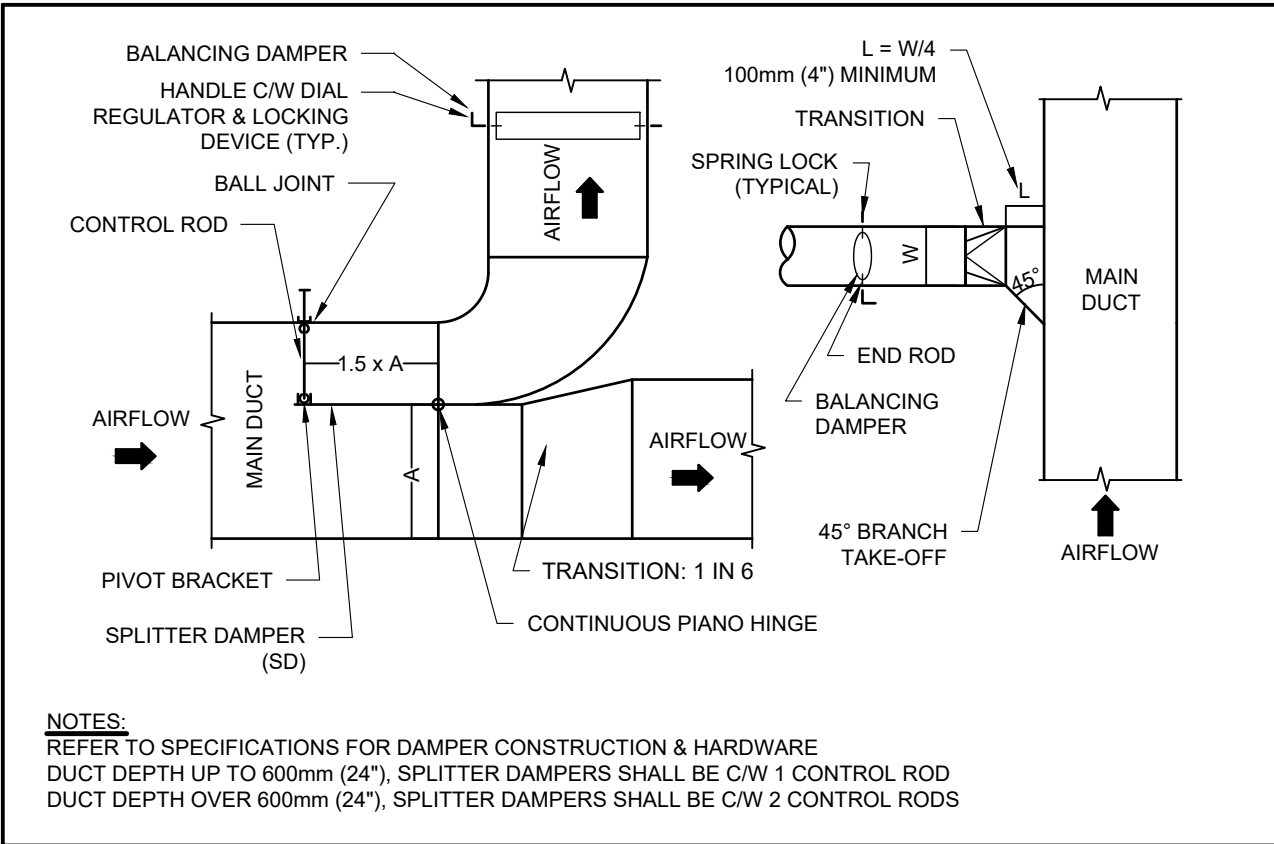
DETAIL  
TRANSFER AIR DUCT

NTS



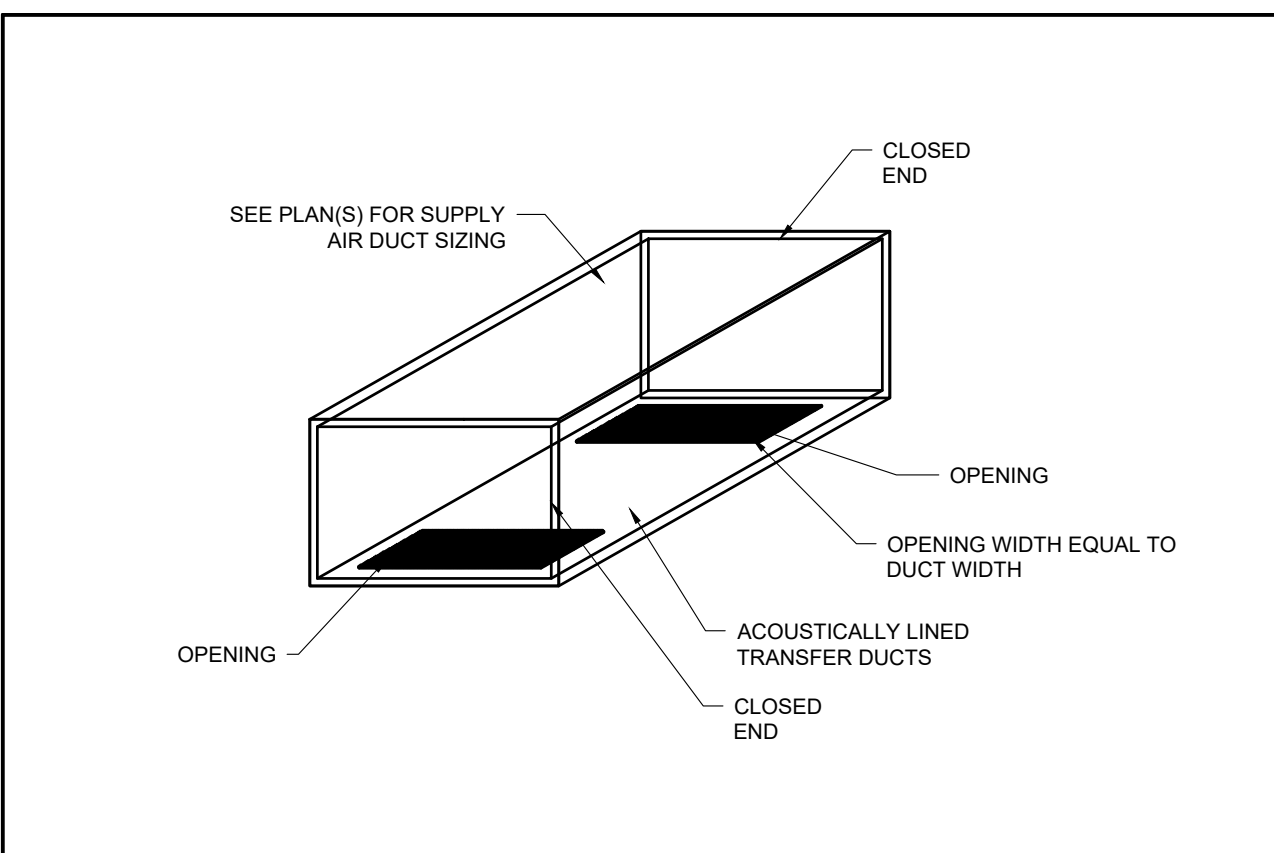
DETAIL  
FROST PROTECTION PIPE INSULATION

NTS



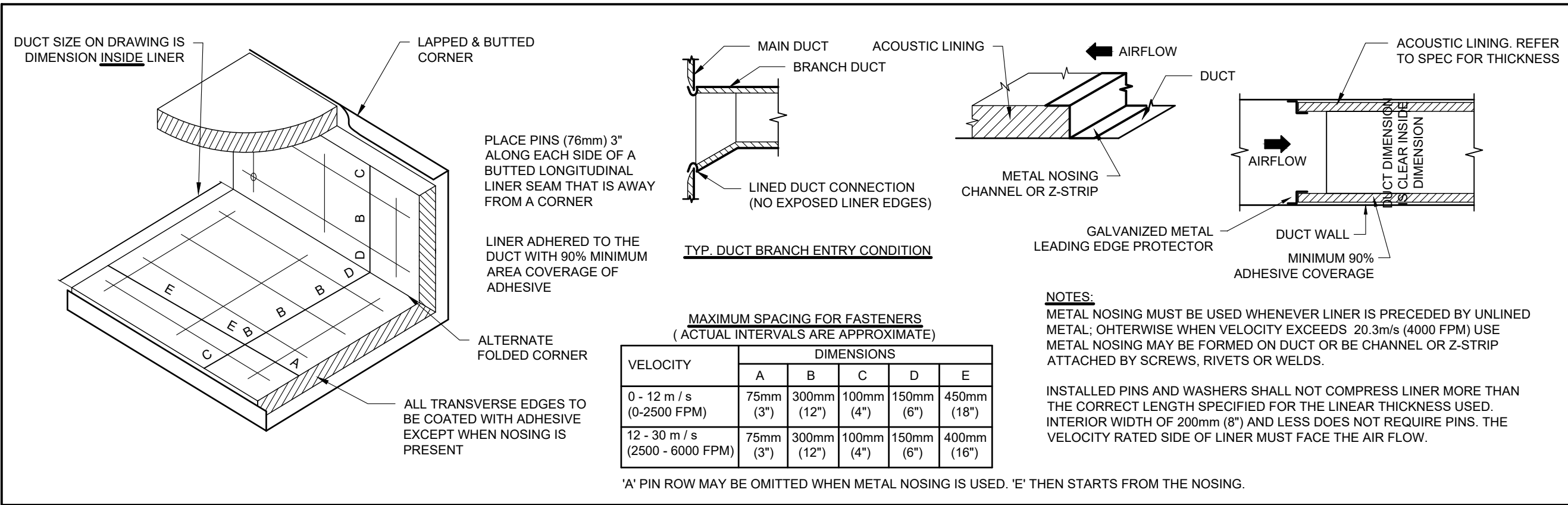
DETAIL  
TYPICAL DUCT CONNECTIONS, SPLITTER DAMPER

NTS



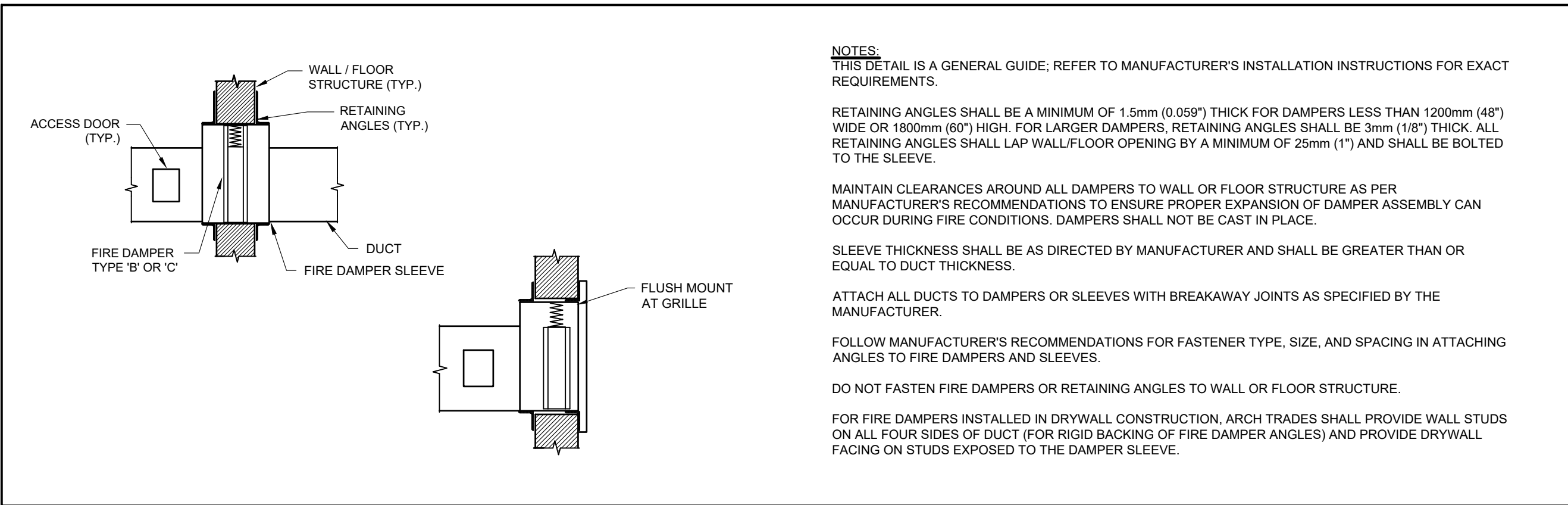
DETAIL  
TRANSFER AIR DUCT

NTS



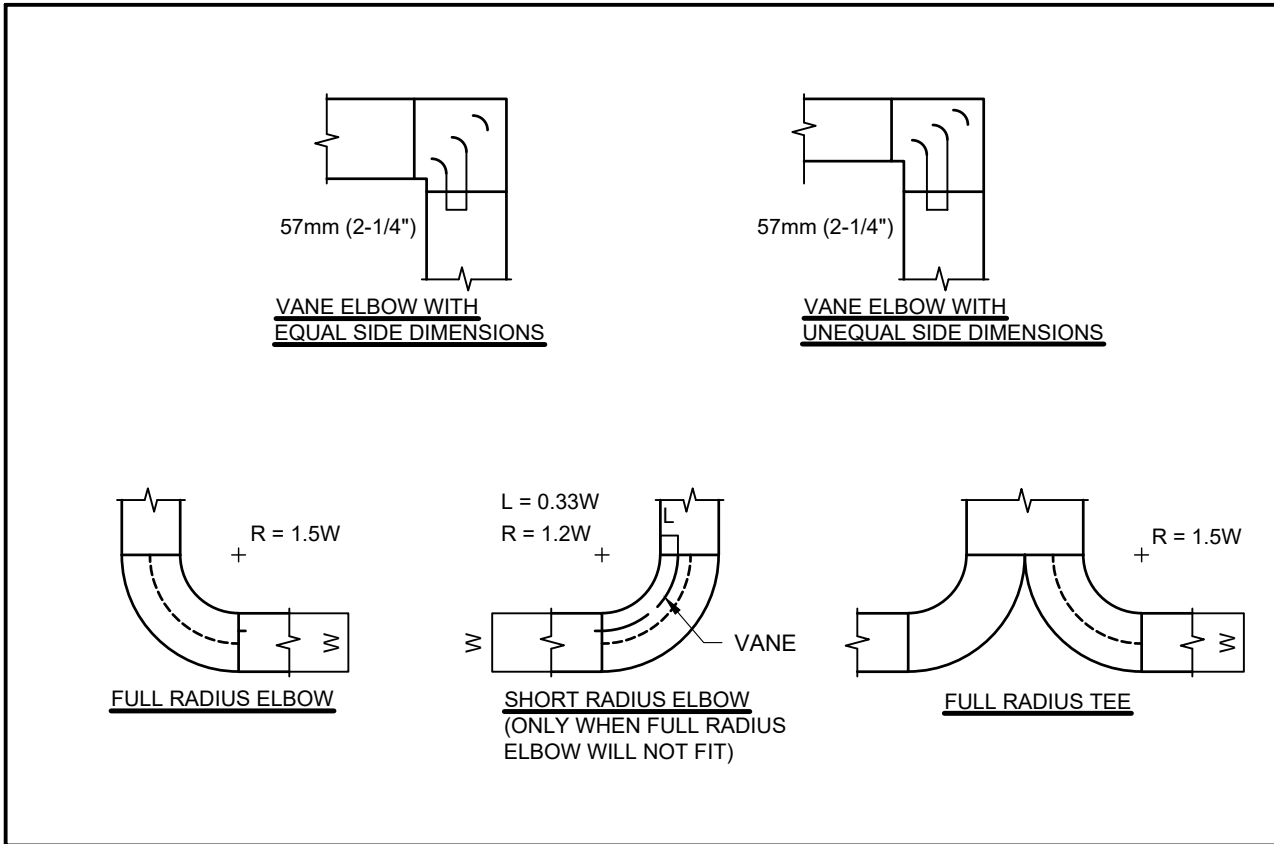
DETAIL  
ACOUSTIC DUCT LINER INSTALLATION

NTS



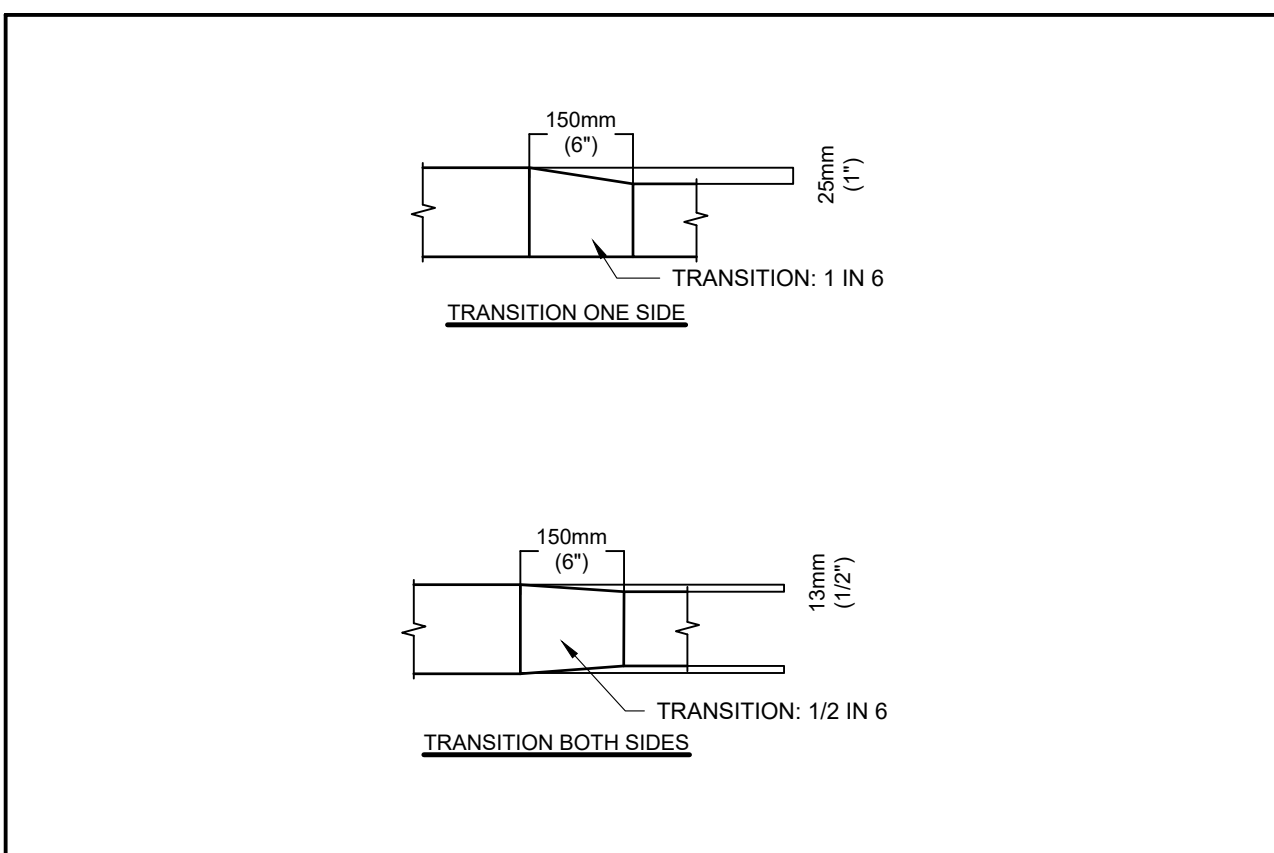
DETAIL  
FIRE DAMPER INSTALLATION

NTS



DETAIL  
DUCT ELBOWS

NTS



DETAIL  
DUCT TRANSITIONS

NTS

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1	ISSUED FOR TENDER	30 MAY 2025

PROJECT :  
YORK REGION PRS #33  
RFTC-397-21  
2960 TESTON ROAD, VAUGHAN

CLIENT

**York Region**

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

CONSULTANT

**zon engineering inc**

465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
888-538-6363  
WWW.ZONENGINEERING.COM

PROFESSIONAL SEAL

DWG TITLE  
DETAILS

ORIENTATION

TRUE NORTH CONSTRUCTION NORTH

DATE  
2020-06-10

SCALE  
As indicated

DWG STATUS  
ND

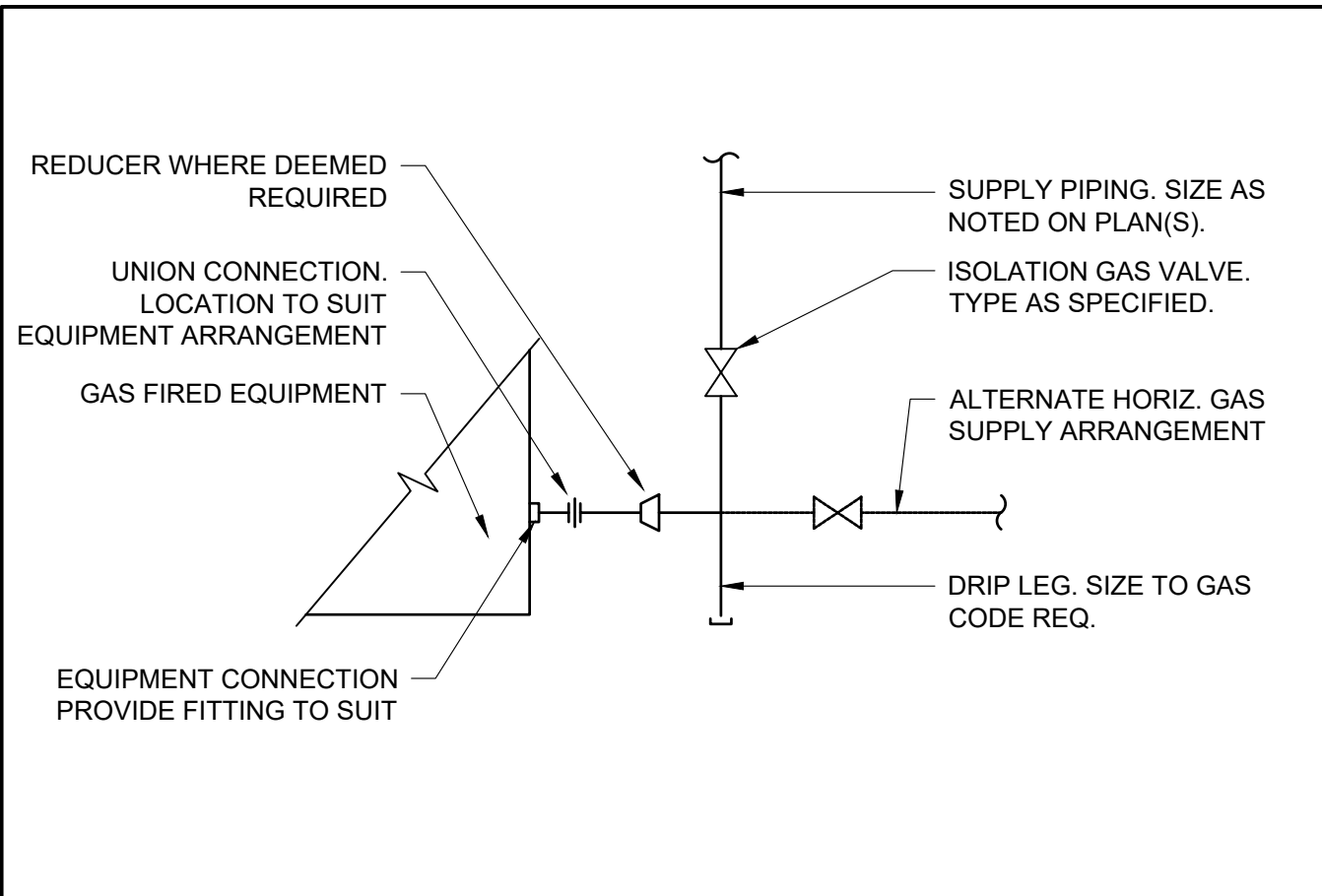
DESIGN

PROJECT No.  
TBA1902

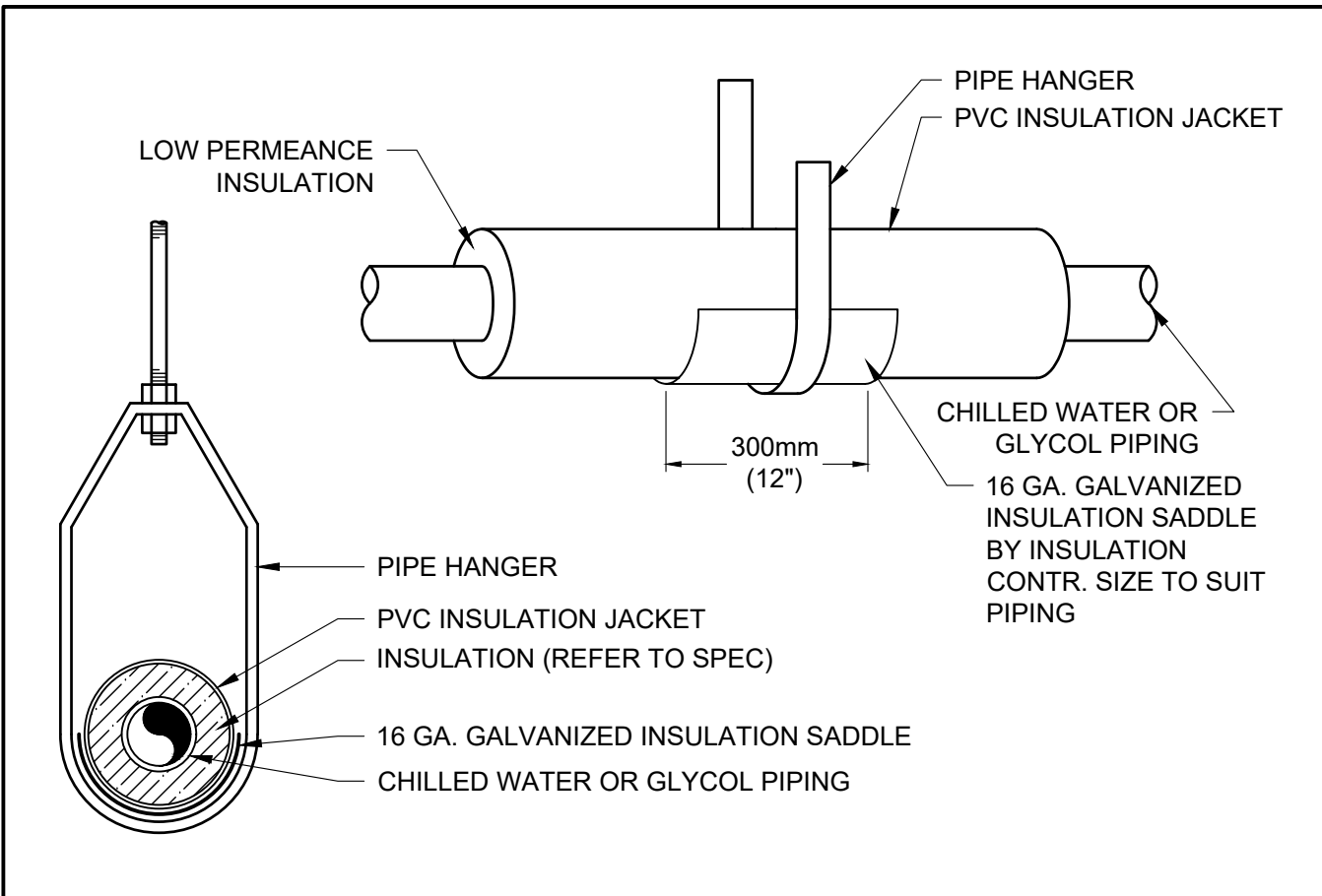
DRAWING No.  
M5.0

REVISION

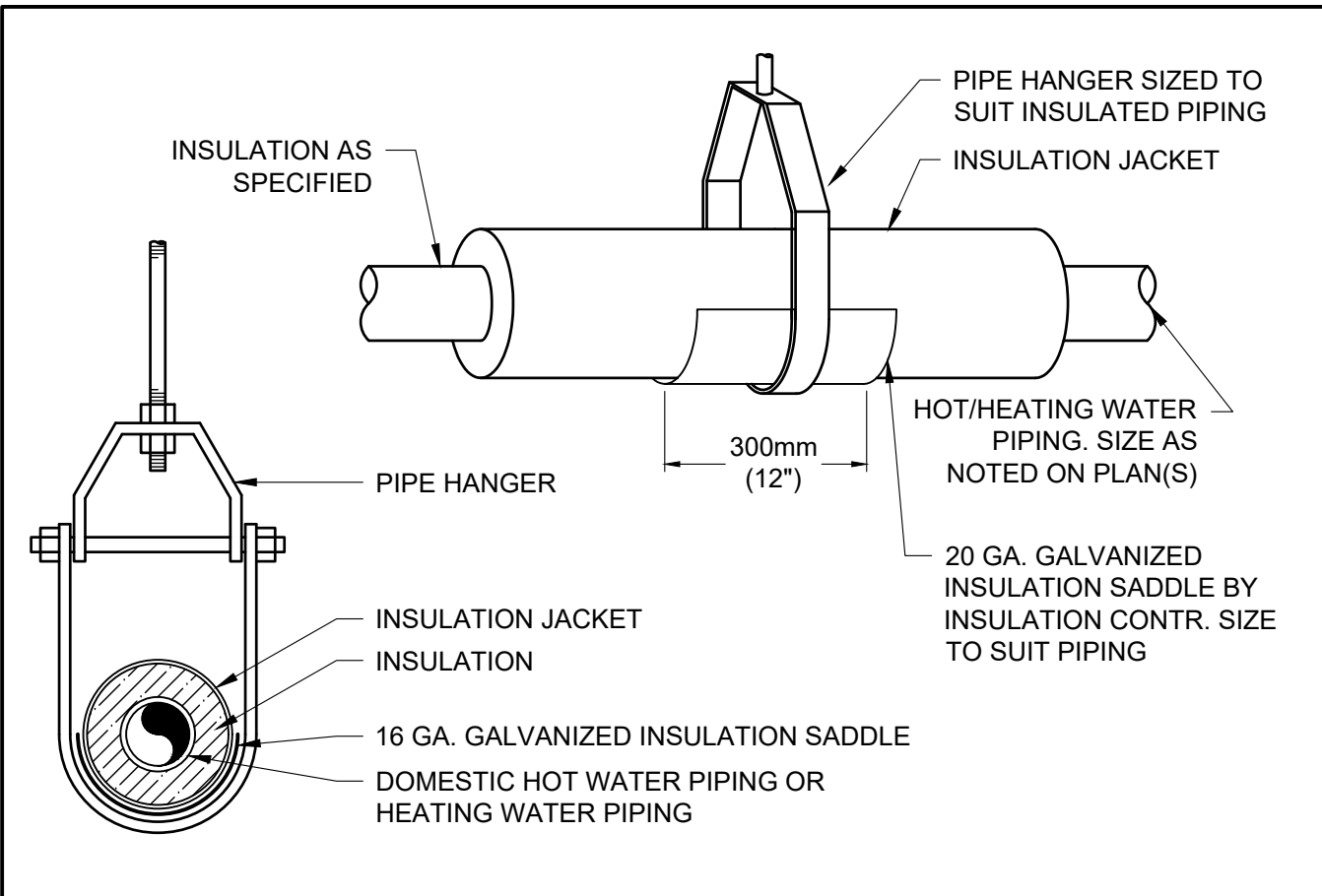




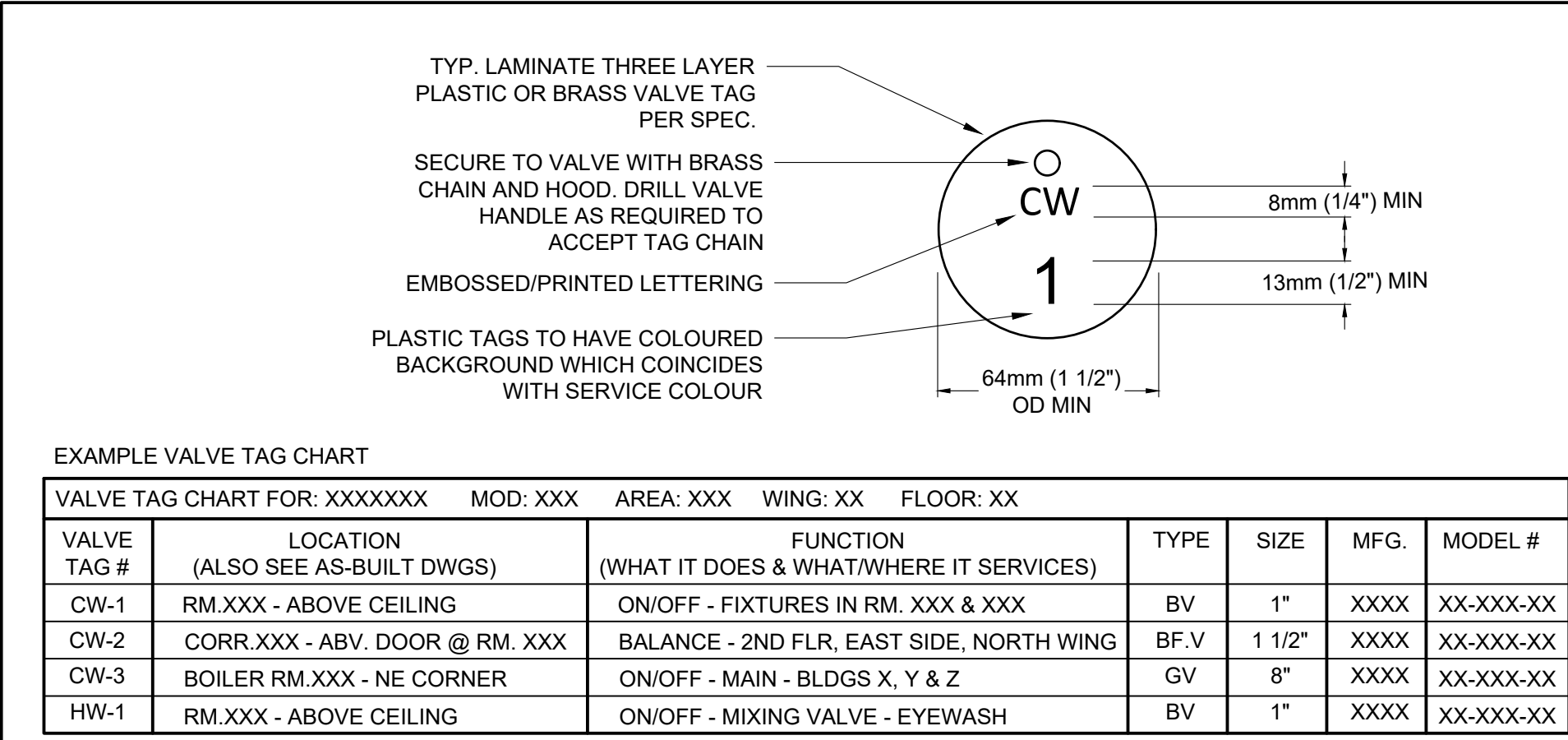
DETAIL  
GAS CONNECTION (TYP.) NTS



DETAIL  
CHILLED WATER/GLYCOL PIPE HANGER INSTALLATION (TYP.) NTS



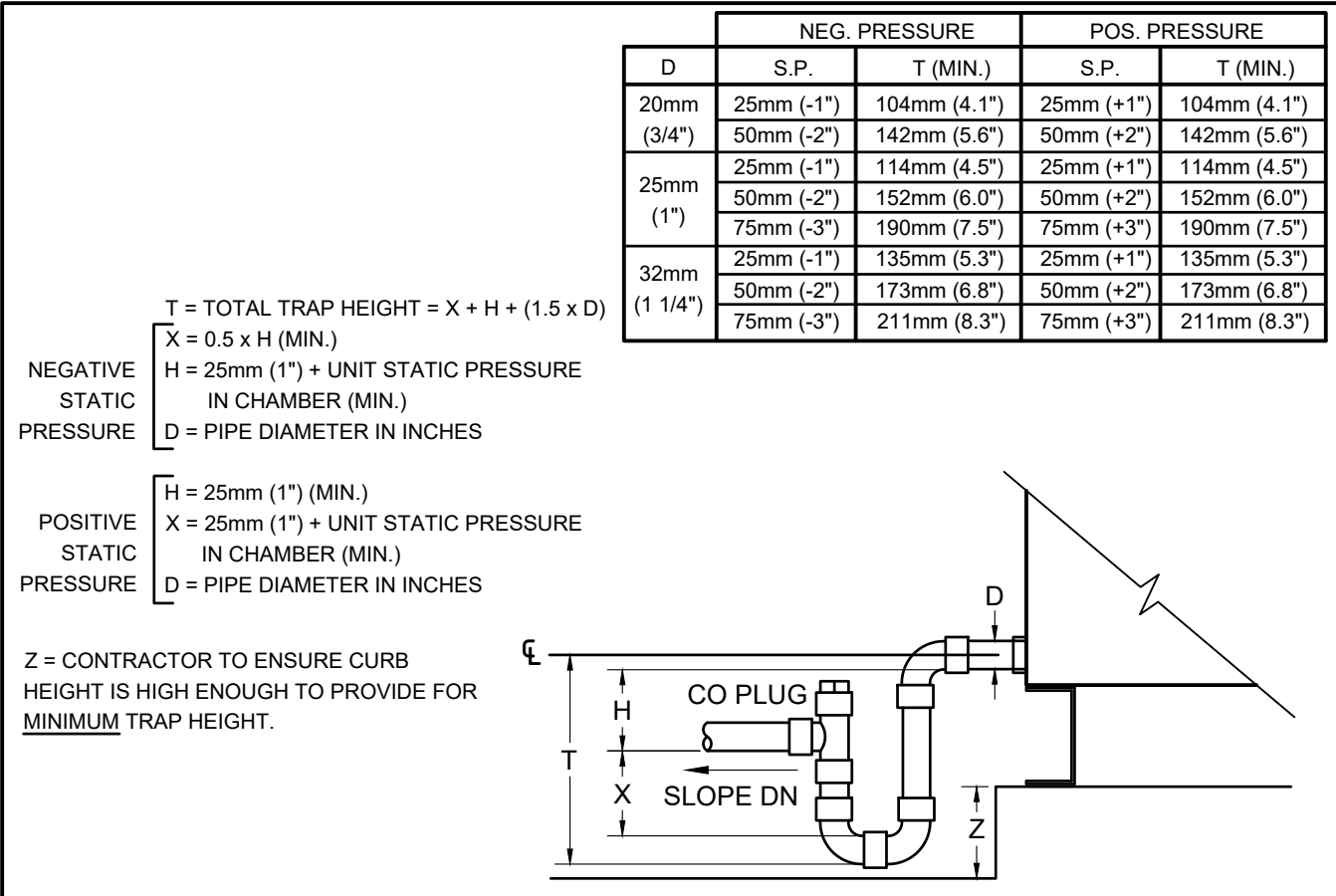
DETAIL  
DHW OR HEATING WATER PIPE HANGER INSTALLATION (TYP.) NTS



DETAIL  
VALVE TAG & VALVE CHART FORMAT NTS

**TAG LEGEND (EXAMPLES)**  
CW = COLD WATER  
HW = HOT WATER  
HWR = HOT WATER RECIRCULATING  
G = NATURAL GAS  
FP = FIRE PROTECTION  
FP-C = FIRE PROTECTION CONTROL VALVES  
FP-D = FIRE PROTECTION DRAIN VALVES  
HWS = HOT WATER SUPPLY  
HWR = HOT WATER RETURN  
CHS = CHILLED WATER SUPPLY  
CHR = CHILLED WATER RETURN  
GS = GLYCOL SUPPLY  
GR = GLYCOL RETURN

1. ABBREV. TO BE AS INDICATED FOR EACH DESIGN SYSTEM AS INDICATED ON DESIGN DRAWINGS
2. VALVE TAGS SHOULD BE INDICATED IN VALVE CHARTS AND ON PROJECT RECORD DRAWINGS TO CORRELATE WITH TAG I.D.'S



DETAIL  
AIR HANDLING UNIT CONDENSATE DRAINS NTS

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1	ISSUED FOR TENDER	30 MAY 2025

PROJECT :  
YORK REGION PRS #33  
RFTC-397-21  
2960 TESTON ROAD, VAUGHAN

CLIENT

**York Region**

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

CONSULTANT

**zon engineering inc**

465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
888-538-6363  
WWW.ZONENGINEERING.COM

PROFESSIONAL SEAL

DWG TITLE

**DETAILS**

ORIENTATION

TRUE NORTH CONSTRUCTION NORTH

DATE

2020-06-10

SCALE

As indicated ND

DWG STATUS

**DESIGN**

PROJECT No.

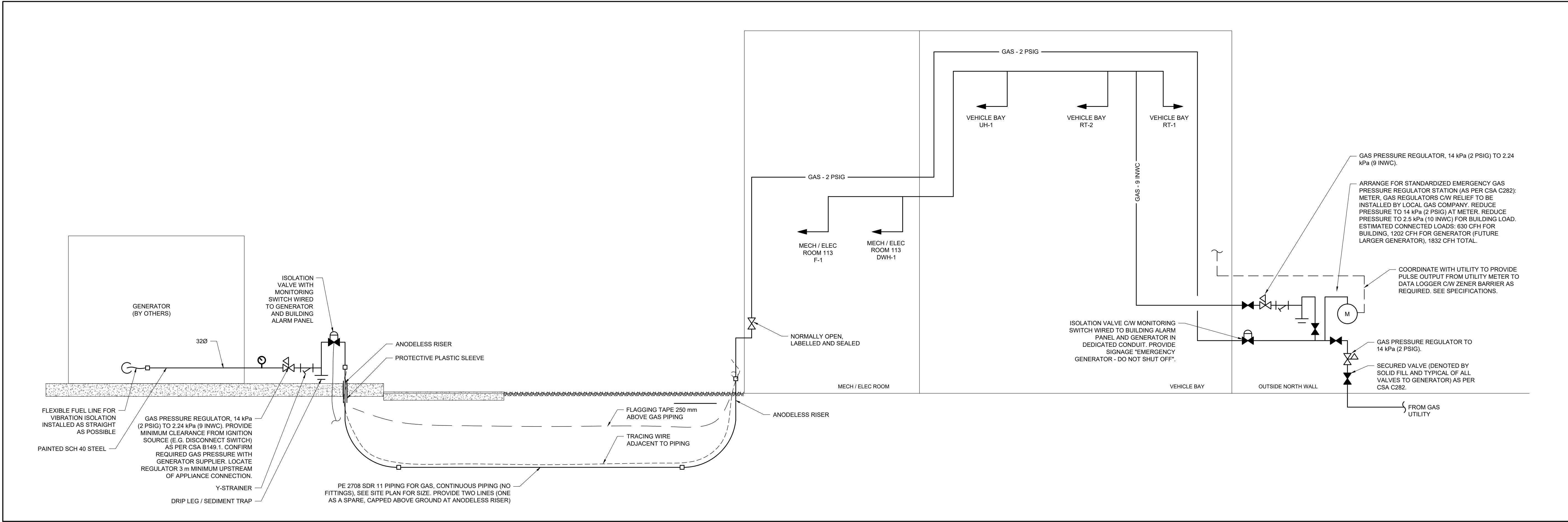
TBA1902

DRAWING No.

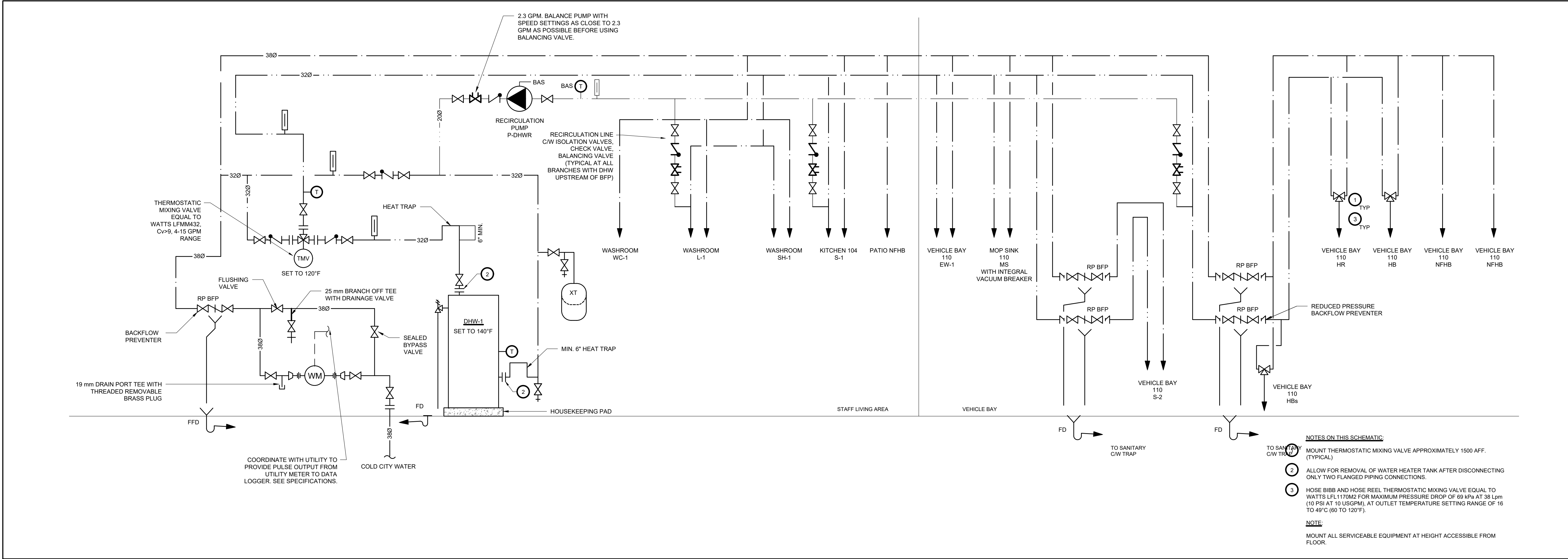
**M5.1**

REVISION





SCHEMATIC  
NATURAL GAS FLOW DIAGRAM



SCHEMATIC  
PLUMBING FLOW DIAGRAM

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
-	-	-
-	-	-
-	-	-
-	-	-
1	ISSUED FOR TENDER	30 MAY 2025

PROJECT :  
YORK REGION PRS #33  
RFTC-397-21  
2960 TESTON ROAD, VAUGHAN

CLIENT

**York Region**

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

CONSULTANT

**zon engineering inc**

A 465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
T 888-538-6363  
W WWW.ZONENGINEERING.COM

PROFESSIONAL SEAL

DWG TITLE  
GAS AND PLUMBING  
SCHEMATICS

ORIENTATION

TRUE NORTH CONSTRUCTION NORTH

DATE 2020-06-10

SCALE As indicated DRAWN BY ND

DWG STATUS: DESIGN

PROJECT No. TBA1902

DRAWING No. M5.2 REVISION



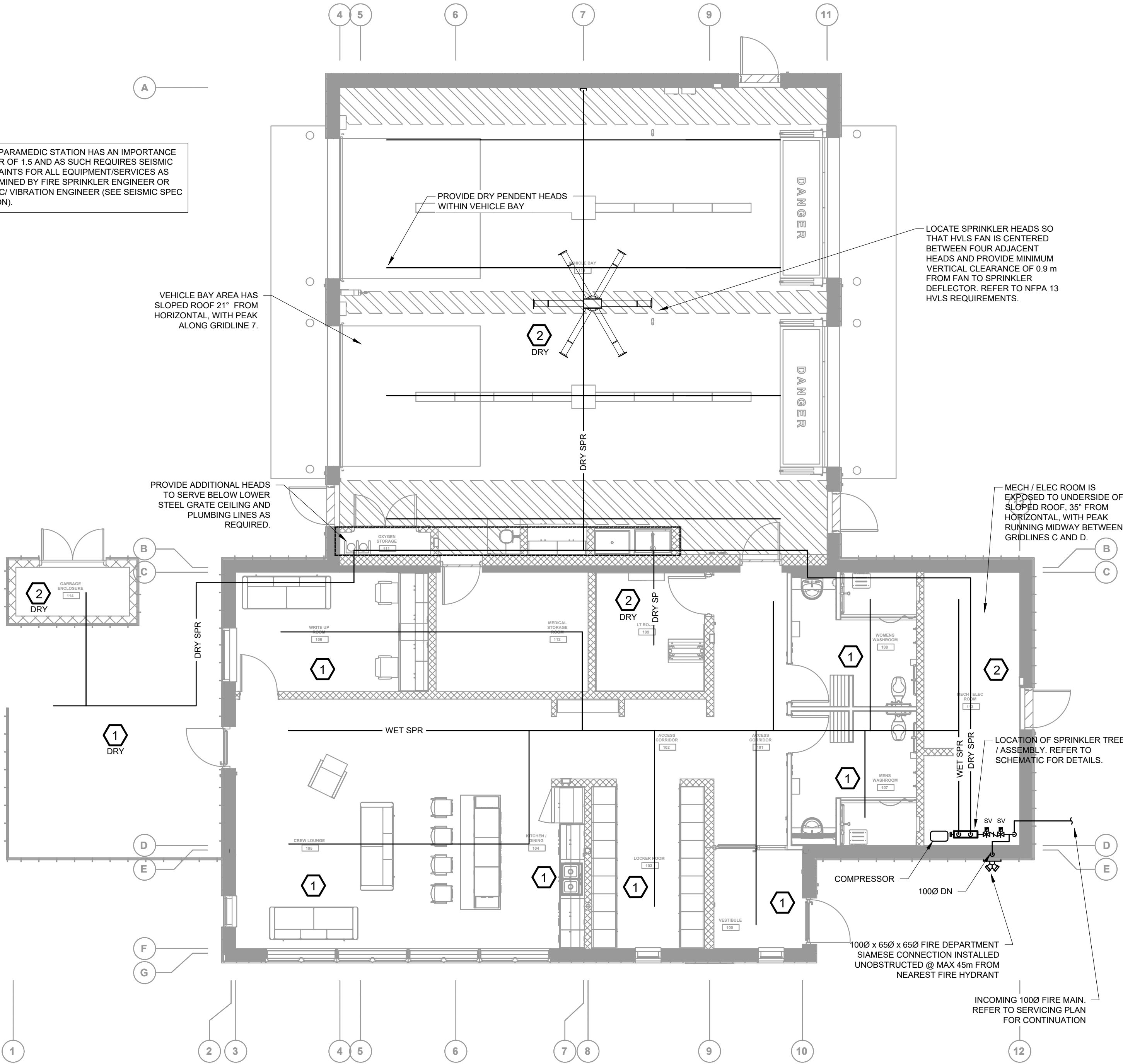
SPRINKLER HEAD USAGE SCHEDULE		
HEAD TYPE	AREA SERVED	REMARKS
UPRIGHT BRASS	MECHANICAL ROOMS, ELECTRICAL ROOMS, UNFINISHED STORAGE ROOMS	PROVIDE GUARDS WHERE REQUIRED
SEMI-RECESSED PENDENT - WHITE	OFFICES, LOBBIES, LOUNGE	
FULLY RECESSED PENDENT WITH WHITE FACE PLATE	WASHROOMS, FINISHED CORRIDORS	
FULLY RECESSED PENDENT WITH CUSTOM COLOUR FACE PLATE	WOOD CEILINGS	CUSTOM COLOUR FOR FACE PLATES TO BE DETERMINED BY ARCHITECT
DRY TYPE	WHERE INDICATED ON PLANS	
SIDE WALL	ELEVATOR SHAFTS	

SPRINKLER HEAD USAGE SCHEDULE			
TAG	OCCUPANCY CLASSIFICATION	AREAS SERVED	SYSTEM DESCRIPTION
1	LIGHT HAZARD 0.10 GPM/SQ FT OVER 1500 SQ FT	KITCHEN AREA, WASHROOMS, CREW LOUNGE, LOCKER ROOM, WRITE-UP ROOM, VESTIBULE	HYDRAULICALLY CALCULATE AUTOMATIC DRY PIPE SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.07 LPS/SM (0.1 USGPM/SF) OVER THE HYDRAULICALLY MOST REMOTE 140 SM (1,500 SF) UTILIZING 155°F, 1/2" ORIFICE, QUICK RESPONSE, SPACED AT A MAXIMUM OF 225 SF EACH. PROVIDE ATTIC COVERAGE (EXCEPT CAF & VIP)
2	ORDINARY HAZARD GROUP 1 0.15 GPM/SQ FT OVER 1500 SQ FT	MECHANICAL EQUIPMENT ROOMS, ELECTRICAL ROOMS, I.T. ROOMS, MEDICAL STORAGE ROOMS, VEHICLE BAY	HYDRAULICALLY CALCULATE AUTOMATIC DRY PIPE SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.1 LPS/SM (0.15 USGPM/SF) OVER THE HYDRAULICALLY MOST REMOTE 140 SM (1,500 SF) UTILIZING 165°F, 1/2" ORIFICE, QUICK RESPONSE, SPACED AT A MAXIMUM OF 130 SF EACH. PROVIDE ATTIC COVERAGE ABOVE KITCHEN.
3	ORDINARY HAZARD GROUP 1 0.15 GPM/SQ FT OVER 2500 SQ FT	N/A	
4	EXTRA HAZARD GROUP 1	N/A	
NOTES: 1. AUTOMATIC SPRINKLERS SHALL BE HIGHER TEMPERATURE WHERE DEFINED BY LATEST NFPA 13. 2. WHERE DUCTWORK SYSTEM IS INSTALLED 300mm (12") OR LESS FROM THE DECK, CONTRACTOR SHALL INSTALL THE SPRINKLER HEADS UNDERNEATH THE DUCT ONLY. 3. HOSE ALLOWANCE SHALL BE INCLUDED IN SPRINKLER HYDRAULIC CALCULATIONS AS FOLLOWS: 3.1 ADDITIONAL 100 GPM SHALL BE ADDED FOR LIGHT HAZARD CALCULATIONS. 3.2 ADDITIONAL 250 GPM SHALL BE ADDED FOR ORDINARY HAZARD CONDITIONS. 4. MINIMUM PRESSURE AT END SPRINKLER HEAD SHALL BE AS REQUIRED TO SATISFY FLOW. IN NO CASE SHALL IT BE LESS THAN 7.5 P.S.I.G. 5. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO HYDRANT FLOW TEST WATER SUPPLY LOCATION. 6. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13. 7. CONTRACTOR SHALL ORDER HYDRANT FLOW TEST AND BASE ALL HYDRAULIC CALCULATIONS ON TEST RESULTS. 7.1 HYDRANT TEST SHALL BE LOCATED AS CLOSE AS POSSIBLE TO POINT OF FIRE SERVICE CONNECTION TO CITY MAIN. 7.2 TEST DATA SHALL INDICATE STATIC PRESSURE, RESIDUAL PRESSURE AT TEST FLOW AND GRADE ELEVATION AT HYDRANT TESTED. 7.3 HYDRANT TEST DATE SHALL BE SUBMITTED FOR REVIEW ALONG WITH SIGNED AND SEALED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS. 8. COORDINATE SPRINKLER ARRANGEMENT, TYPE, TEMPERATURE RATING, FINISH, ETC. AND ADJUST TO SUIT LOCAL AUTHORITY REQUIREMENTS AND CONSULTANT'S DIRECTIONS WHILE MAINTAINING COMPLIANCE W/OBC & NFPA.			

SUBMITTAL NOTES:	
1.	SPRINKLER WORK SHALL BE HYDRAULICALLY SIZED BY A PROFESSIONAL ENGINEER, BASED ON THE PROCEDURES OF NFPA-13. BE RESPONSIBLE FOR OBTAINING ALL REQUIRED WATER FLOW TEST AND PRESSURE DATA. SUBMIT FLOW TEST DATA AND CALCULATIONS USED, WITH SHOP DRAWINGS. CALCULATIONS USED FOR HYDRAULICALLY SIZED SYSTEMS SHALL BEAR THE PROFESSIONAL ENGINEER'S SIGNED STAMP.
2.	COMPLETE AND DIMENSIONED SYSTEM LAYOUT DRAWINGS INDICATING ALL HEADS AND EQUIPMENT, PIPE SIZING AND ALL CALCULATIONS AND DESIGN DATA USED IN PREPARING THE LAYOUTS AND SIZING THE PIPING SHALL BE SUBMITTED AS SHOP DRAWINGS.
3.	SHOP DRAWINGS MUST BE FIRST SUBMITTED TO AND APPROVED BY THE LOCAL GOVERNING AUTHORITIES PRIOR TO BEING SUBMITTED TO THE CONSULTANT FOR REVIEW.

GENERAL NOTES FOR SPRINKLER SYSTEMS:	
1.	THE INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO SHOW CRUCIAL INFORMATION REQUIRED FOR THE DESIGN OF THE SPRINKLER SYSTEM. THE LAYOUTS ARE NOT INTENDED TO BE USED AS WORKING DRAWINGS AND SHALL ONLY BE USED TO ASSIST THE SPRINKLER CONTRACTOR IN THE PREPARATION OF WORKING DRAWINGS. THE RESPONSIBILITY FOR THE DESIGN AND INSTALLATION OF WORKING SPRINKLER SYSTEM IN COMPLIANCE WITH ALL CODE, LOCAL AUTHORITY AND UNDERWRITER'S REQUIREMENTS RESTS WITH THE SPRINKLER CONTRACTOR AND SHALL BE PROVIDED COMPLETE TO THE FULL SATISFACTION OF THE CONSULTANT. THE INDICATED SPRINKLER COVERAGE IS TO BE USED AS A GUIDE AND SHALL BE REVISED AS REQUIRED TO SUIT THE FINAL SYSTEM DESIGN. PIPING ROUTING IS FOR GUIDANCE ONLY. THE FINAL ROUTINGS, SIZES AND HEAD LOCATIONS SHALL BE ESTABLISHED BY THE SPRINKLER CONTRACTOR.
2.	THE COMPLETE SYSTEMS SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF NFPA 13, FIRE CODE, FIRE MARSHAL, LOCAL AUTHORITY REQUIREMENTS AND THE ONTARIO BUILDING CODE. THIS CONTRACTOR SHALL INVESTIGATE AND DETERMINE ALL COMPLIANCE ISSUES PRIOR TO SUBMISSION OF TENDER AND CARRY ALL COST ASSOCIATED WITH ANY AND ALL ADDITIONAL REQUIREMENTS AS DEEMED NECESSARY BY THE ABOVE STANDARDS AND/OR AUTHORITIES. SPRINKLER INSTALLATION SHALL BE APPROVED BY FIRE DEPARTMENT & IN ACCORDANCE WITH N.F.P.A.-13.
3.	SITE SERVICES CONTRACTOR SHALL HYDROSTATICALLY TEST ALL NEW FIRE SERVICE MAINS UP TO THE BUILDING AT NOT LESS THAN 200 PSI (1378 KPA) PRESS FOR 2 HRS OR AT 50 PSI (345 KPA) IN EXCESS OF THE MAXIMUM STATIC PRESS WHERE SAME IS IN EXCESS OF 150 PSI (1034 KPA). SUBMIT ASSOCIATED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING AS PER THE REQUIREMENTS OF NFPA 20.
4.	SPRINKLER PIPE & HEAD LOCATIONS: 4.1. CO-ORDINATE ALL SERVICES WITH EACH DIVISION BEFORE INSTALLATION OF PIPES, HEADS, ETC. ROUTE SERVICES ON SITE TO CLEAR DUCTWORK, BUILDING STRUCTURE, ETC. 4.2. KEEP SPRINKLER MAINS WITHIN CORRIDORS WHERE POSSIBLE. 4.3. SPRINKLER PIPING SHALL BE INSTALLED SO AS TO MAINTAIN MAXIMUM CLEAR HEADROOM THROUGHOUT & CONTAINED WITHIN ALL CEILING SPACES. WHERE SPRINKLER HEADS AND PIPING IS REQUIRED TO BE EXPOSED, REVIEW PROPOSED LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION. 4.4. WHERE APPLICABLE, SPRINKLER HEADS SHALL BE CENTERED BOTH WAYS IN CEILING TILES. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS. 4.5. CONTRACTOR SHALL REVIEW ALL DRAWINGS OF MECHANICAL ROOMS, FAN ROOMS, ELECTRICAL ROOMS, ETC. AND ALLOW FOR ADDITIONAL SPRINKLER HEADS AS REQUIRED TO SUIT DUCTWORK AND EQUIPMENT OBSTRUCTIONS ETC.
5.	FIRE SEPARATIONS: 5.1. READ MECHANICAL DWGS IN CONJUNCTION, VERIFY AND COMPLY WITH ALL REQUIREMENTS PERTAINING TO FIRE SEPARATIONS AS OUTLINED IN THE ARCHITECTURAL / STRUCTURAL PLANS AND SPECIFICATION. 5.2. MECHANICAL SERVICES, DEVICES &/OR EQUIPMENT PENETRATING FIRE SEPARATIONS, INCLUDING THOSE REQUIRED TO HAVE A FIRE RESISTANCE RATING (45 MIN, 1 HR, 2 HR, OR SIMILAR) AND THOSE NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING, (ZERO-RATED, NON-RATED OR SIMILAR), SHALL BE TIGHTLY FITTED & CAULKED TO CONTROL SMOKE SPREAD IN COMPLIANCE W/ OBC & ASSOCIATED STANDARDS AND TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION. 5.3. MECHANICAL SERVICES, DEVICES &/OR EQUIPMENT PENETRATING FIRE SEPARATIONS, INCLUDING THOSE REQUIRED TO HAVE A FIRE RESISTANCE RATING (45 MIN, 1 HR, 2 HR, OR OTHERWISE), SHALL BE PROVIDED W/ APPROVED FIRE STOP DEVICES & METHODS IN COMPLIANCE W/ OBC & ASSOCIATED STANDARDS & TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION.
6.	MATERIALS: 6.1. SPRINKLER HEADS IN AREAS WITH CEILING LOWER THAN 2400mm SHALL BE UPRIGHT TYPE C/W WIRE GUARDS. 6.2. ALL SPRINKLER HEADS IN UNFINISHED AREAS SHALL BE UPRIGHT TYPE. 6.3. EXPOSED SPRINKLER PIPING SHALL BE FERROUS. PLASTIC NOT PERMITTED EXPOSED. 6.4. PIPING & OTHER MATERIALS INSTALLED WITHIN AIR DUCTS, CEILING RETURN AIR PLENUMS AND DUCT CHASES USED AS AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25 AND 50 RESPECTIVELY. ABS/PVC PIPING, WOOD FRAMING, FT-4/CMR WIRING & SIMILAR MATERIALS ARE NOT PERMITTED AND SHALL BE SEPARATED FROM PLENUM BY DRYWALL OR SIMILAR MEANS (TYPICAL). 6.5. ALL ADDITIONAL VALVED DRAINS ETC. TO BE INCLUDED AS PART OF THE CONTRACT WORK. 6.6. PROVIDE INSPECTORS TEST CONNECTIONS IN ACCORDANCE WITH N.F.P.A.-13 6.7. ALL CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED AND CONNECTED TO THE FIRE ALARM SYSTEM. 6.8. ALL WATER FLOW SWITCHES, PRESSURE ALARM SWITCHES AND AIR MONITORING DEVICES SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM.

NOTE: PARAMEDIC STATION HAS AN IMPORTANCE FACTOR OF 1.5 AND AS SUCH REQUIRES SEISMIC RESTRAINTS FOR ALL EQUIPMENT/SERVICES AS DETERMINED BY FIRE SPRINKLER ENGINEER OR SEISMIC/ VIBRATION ENGINEER (SEE SEISMIC SPEC SECTION).



FIRE PROTECTION PLAN FIRST FLOOR 1:75

THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS REMAIN THE COPYRIGHT PROPERTY OF THOMAS BROWN ARCHITECT INC. AND MUST BE RETURNED UPON COMPLETION OF THE WORK.		
ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1	ISSUED FOR TENDER	30 MAY 2025

PROJECT :

CLIENT

CONSULTANT

PROFESSIONAL SEAL

YORK REGION PRS #33

RFTC-397-21

2960 TESTON ROAD, VAUGHAN

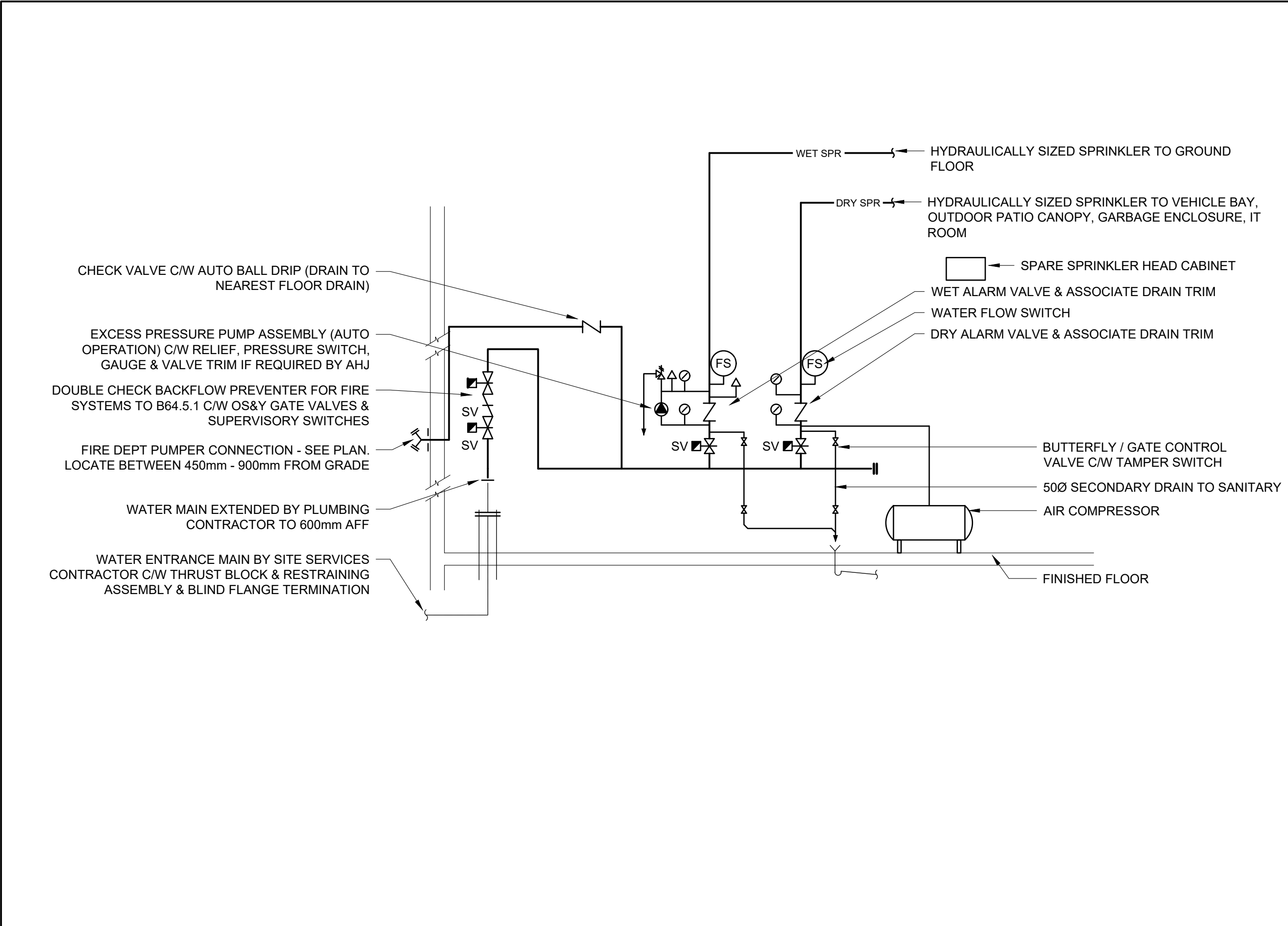
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

zon engineering inc

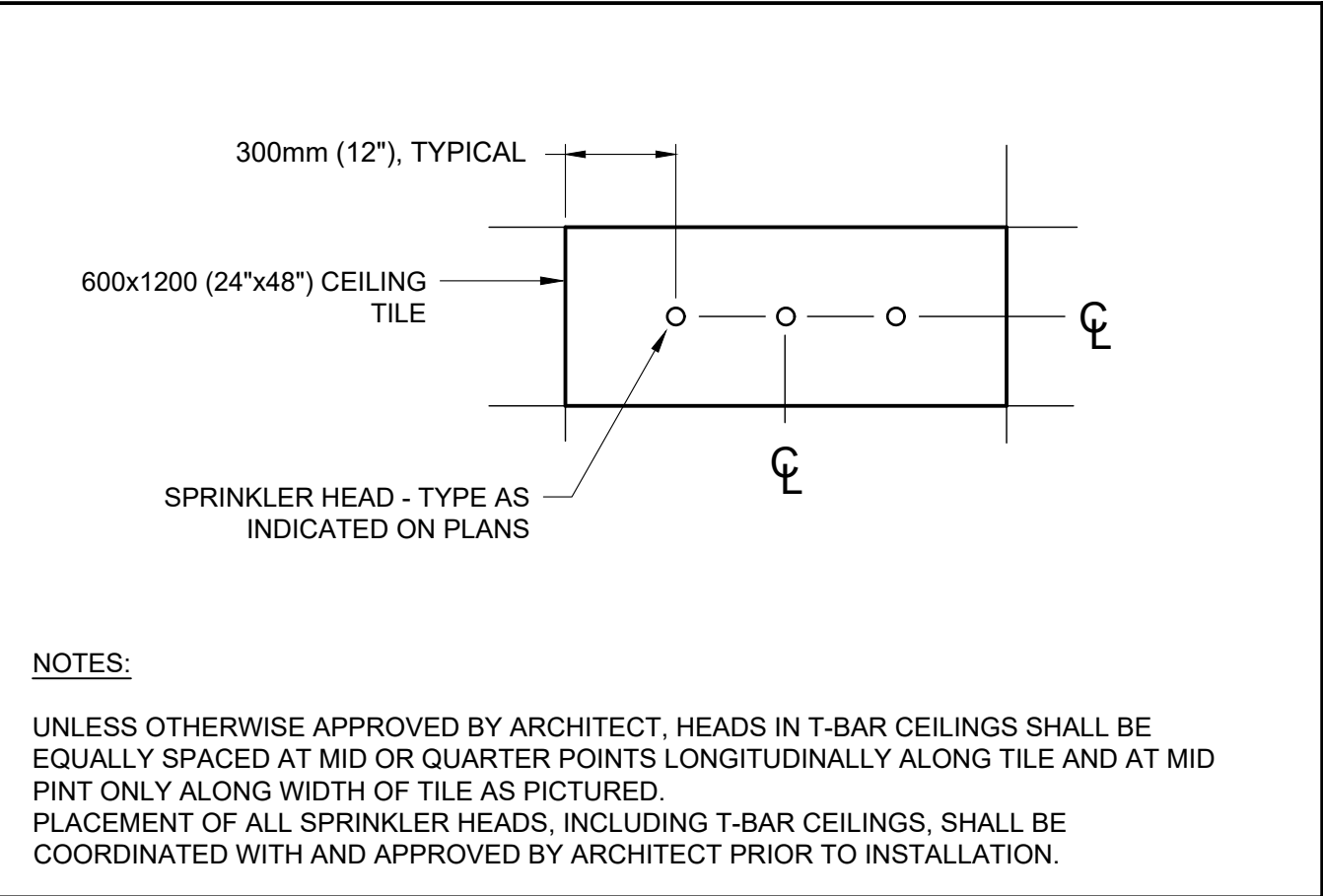
465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
888-538-6363  
WWW.ZONENGINEERING.COM

DWG TITLE	
FIRE PROTECTION	
ORIENTATION	
DATE	
2020-06-10	
SCALE	DRAWN BY
As indicated	ND
DWG STATUS :	
DESIGN	
PROJECT No.	
TBA1902	
DRAWING No.	REVISION
M6.0	

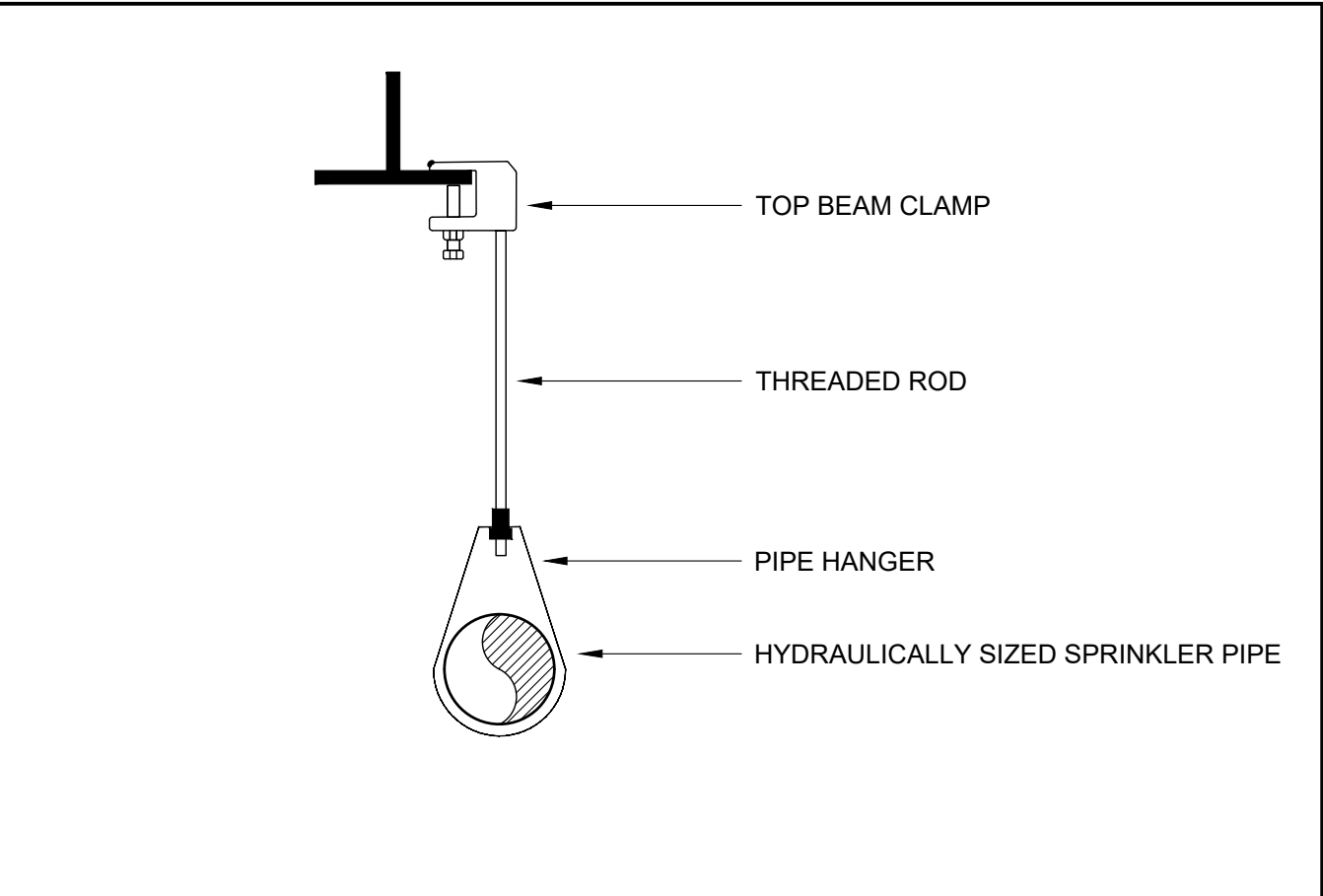




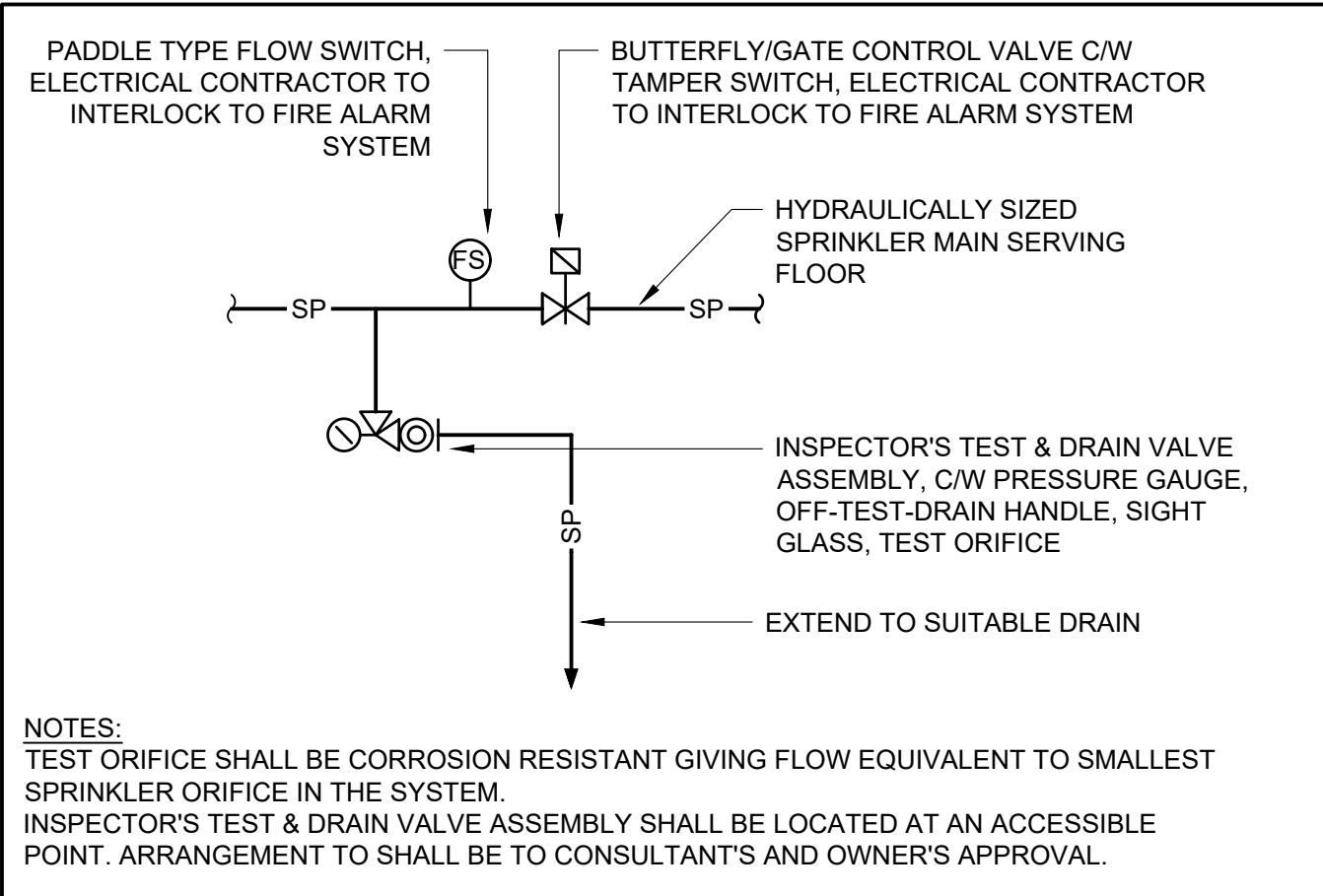
DETAIL  
WATER ENTRANCE & SPRINKLER ASSEMBLY DETAIL NTS



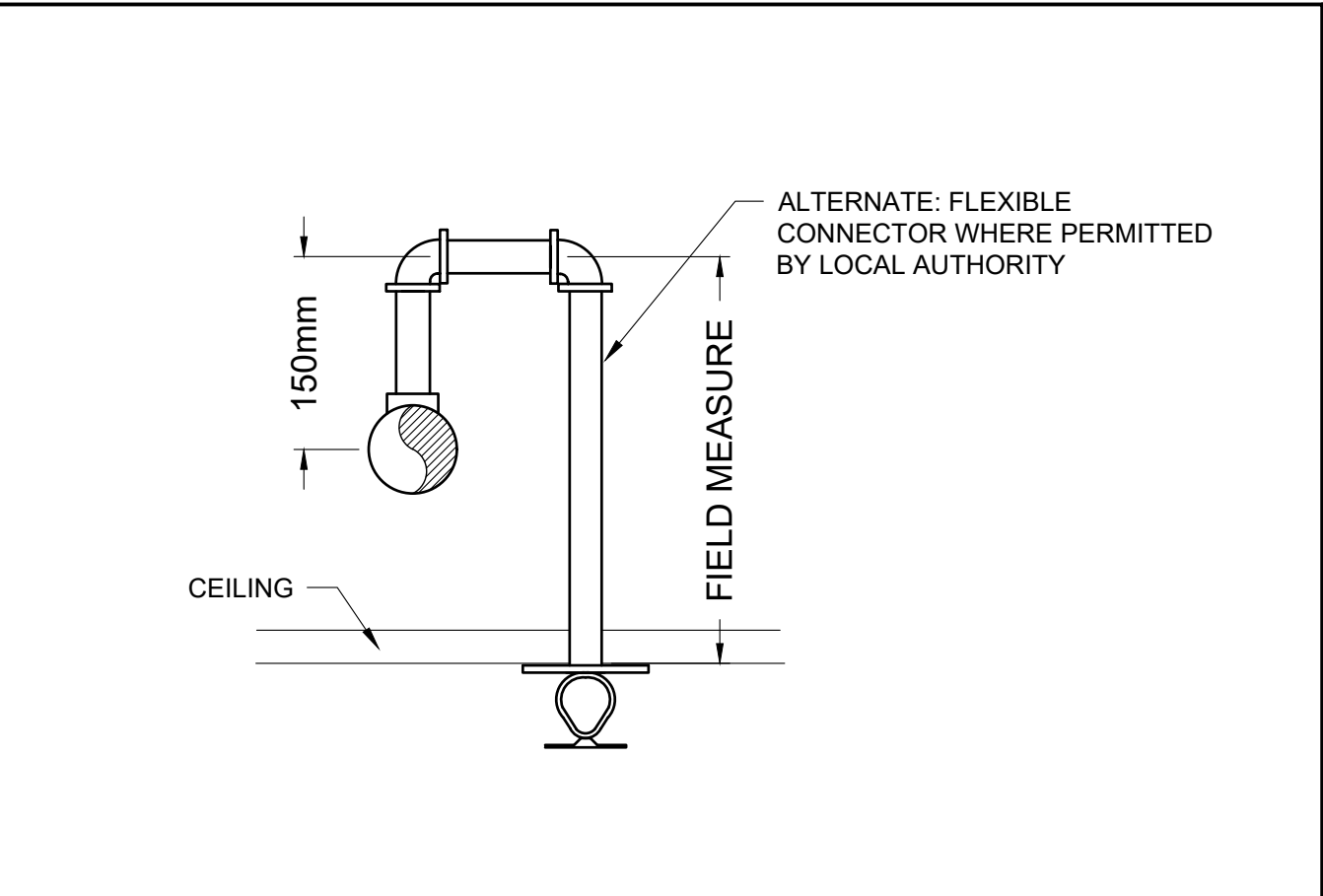
DETAIL  
TYPICAL SPRINKLER HEAD LOCATION NTS



DETAIL  
TYPICAL HANGER NTS



DETAIL  
TYPICAL ZONE CONTROL ASSEMBLY NTS



DETAIL  
TYPICAL RETURN BEND NTS

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1	ISSUED FOR TENDER	30 MAY 2025

PROJECT :  
**YORK REGION PRS #33**  
**RFTC-397-21**  
2960 TESTON ROAD, VAUGHAN

CLIENT

**York Region**

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

CONSULTANT

**zon engineering inc**

465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON  
888-538-6363  
WWW.ZONENGINEERING.COM

PROFESSIONAL SEAL

DWG TITLE  
**FIRE PROTECTION DETAILS**

ORIENTATION

TRUE NORTH CONSTRUCTION NORTH

DATE  
2020-06-10

SCALE  
As indicated

DWG STATUS  
DESIGN

PROJECT No.  
TBA1902

DRAWING No.  
**M6.1**

REVISION



LEGEND OF SYMBOLS	
\$	15A, 125V SINGLE POLE SWITCH
\$ <sub>2</sub>	TWO POLE SWITCH
\$ <sub>3</sub>	THREE WAY SWITCH
\$ <sub>4</sub>	FOUR WAY SWITCH
\$ <sub>K</sub>	KEY OPERATED SWITCH
\$ <sub>D</sub>	DIMMER SWITCH
\$ <sub>PL</sub>	SWITCH C/W PILOT LIGHT
\$ <sub>T</sub>	TIMER SWITCH
\$ <sub>OS</sub>	OCCUPANCY SENSOR SWITCH
\$\$	GANG SWITCHES
\$ <sub>LV1</sub>	DIGITAL ONE BUTTON LIGHT SWITCH, WATT STOPPER LMSW-101
\$ <sub>LV2</sub>	DIGITAL TWO BUTTON LIGHT SWITCH, WATT STOPPER LMSW-102
\$ <sub>LV3</sub>	DIGITAL THREE BUTTON LIGHT SWITCH, WATT STOPPER LMSW-103
\$ <sub>LV4</sub>	DIGITAL FOUR BUTTON LIGHT SWITCH, WATT STOPPER LMSW-104
\$ <sub>LVD</sub>	DIGITAL DIMMING WALL SWITCH, WATT STOPPER LMDM-101
	PANELBOARD – SURFACE MOUNTED
	PANELBOARD – RECESSED
	DISCONNECT SWITCH
	DISCONNECT SWITCH
	TELEVISION OUTLET C/W 21mm CONDUIT
	ANALOG TELEPHONE OUTLET C/W 21mm CONDUIT. (RED PHONE) TO BE INSTALLED AT 1200mm A.F.F.
	TELEPHONE OUTLET C/W 21mm CONDUIT
	TELEPHONE OUTLET MOUNTED AT 1500mm A.F.F. C/W 21mm CONDUIT
	DATA OUTLET C/W 21mm CONDUIT
	WIRELESS ACCESS POINT LOCATION WITH TAG NUMBER, C/W 21mm CONDUIT AT CEILING LEVEL
	MEDIX SAFE C/W 50mm CONDUIT
	CEILING MOUNTED SPEAKER C/W 16mm CONDUIT TO LOCAL SOUND SYSTEM
	MICROPHONE OUTLET C/W 16mm CONDUIT
	BARRIER DOOR OPERATOR PUSH BUTTON
	DOOR BUZZER SOUNDER
	DOOR BUZZER PUSH BUTTON
	FIRE ALARM HEAT DETECTOR, CEILING MOUNTED
	FIRE ALARM HEAT DETECTOR, CEILING MOUNTED, FIXED TEMPERATURE
	FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED
	120V, COMBINATION SMOKE & CO ALARM UNIT C/W STROBE LIGHT & BATTERY BACK UP.
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM MONITORING PANEL
	SPRINKLER PRESSURE SWITCH
	FIRE ALARM ZONE LINE
	FIRE ALARM CONNECTION TO SPRINKLER FLOW SWITCH.
	FIRE ALARM CONNECTION TO SPRINKLER SUPERVISED VALVE
	FIRE ALARM SYSTEM MANUAL PULL STATION.
	FIRE ALARM STROBE
	FIRE ALARM HORN/STROBE
	CEILING MOUNTED LIGHTING FIXTURES
	WALL MOUNTED LIGHTING FIXTURES
	CEILING MOUNTED LIGHTING FIXTURES ON NIGHT LIGHTING CIRCUIT
	DIRECT CONNECTION TO EQUIPMENT AS INDICATED.
	JUNCTION BOX
	SURFACE MOUNTED STRIP FLUORESCENT LIGHTING FIXTURE, LETTER DENOTES TYPE
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	REMOTE EMERGENCY LIGHTING FIXTURES, SINGLE OR DOUBLE HEAD.
	EXIT SIGN
	EMERGENCY LIGHTING BATTERY AND TAG NUMBER
	EMERGENCY LIGHTING FIXTURES AND BATTERY WITH TAG NUMBER
	COMBINATION EMERGENCY LIGHTING FIXTURE, BATTERY AND EXIT SIGN
	SECURITY SYSTEM MOTION DETECTOR
	TRANSFORMER
	INDICATES ABOVE FINISHED FLOOR
BH	BASEBOARD ELECTRIC HEATER SIZED AS INDICATED
FF	FAN FORCED ELECTRIC HEATER, SIZED AS INDICATED
GFI	EQUIPMENT SO NOTED TO BE SUPPLIED WITH GROUND FAULT CIRCUIT INTERRUPT
R	RELAY WITH AUXILIARY CONTACTS
WG	WIRE GUARD
T	TRANSFORMER
UH	UNIT HEATER
W	WALL MOUNT – VERIFY HEIGHT
WP	DENOTES WEATHERPROOF
MD	MOTORIZED DAMPER
SP	SPEAKER
	MOTOR CONNECTION (SINGLE PHASE)
	MOTOR CONNECTION (THREE PHASE)

	FLOOR MOUNTED DATA/TEL OUTLET
	OUTLET FOR SECURITY DOOR STRIKE
	OUTLET FOR SECURITY CONCEALED DOOR CONTACT
	OVER HEAD DOOR CONTACT
	ARMING BUTTON
	OUTLET FOR SECURITY HID CARD ACCESS READER
	OUTLET FOR KEYPAD
	OUTLET FOR SECURITY GLASS BREAK DETECTOR SENSOR
	OUTLET FOR SECURITY MOTION SENSOR
	OUTLET FOR ASSISTANCE REQUIRED BUTTON
	ASSISTANCE REQUIRED LIGHT AND SOUNDER
	"OCCUPIED" LIGHT
	OUTLET FOR "REQUEST TO EXIT"
	OUTLET FOR SECURITY SIREN/ALARM HORN
	DEFIBRILLATOR
	ASSISTANCE REQUIRED LIGHT AND SOUNDER
	OUTLET FOR CLOSED CIRCUIT SECURITY CAMERA
	OUTLET FOR A/V MICROPHONE
	EMERGENCY PUSH BUTTON FOR GAS SOLENOID VALVE
	BELL DEMARCATION POINT
	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR, WATT STOPPER LMDC-100
	CEILING MOUNT PIR OCCUPANCY SENSOR, WATT STOPPER LMPC-100
	CEILING MOUNT ULTRA SONIC TECHNOLOGY OCCUPANCY SENSOR, WATT STOPPER LMUC-100.
	WALL CORNER MOUNT DUAL TECH OCCUPANCY SENSOR, WATT STOPPER LMDX-100
	WALL MOUNT DUAL TECH OCCUPANCY SENSOR, WATT STOPPER LMDX-102.
	WALL MOUNT PIR OCCUPANCY SENSOR, WATT STOPPER PW-100
	DAY LIGHT SENSOR
	DIGITAL ROOM CONTROLLER WITH SINGLE RELAY, WATT STOPPER LMRC-101
	DIGITAL ROOM CONTROLLER WITH TWO RELAYS, WATT STOPPER LMRC-102
	DIGITAL ON/OFF/0-10V DIMMING ROOM CONTROLLERS WITH ONE RELAY, WATT STOPPER LMRC-211
	DIGITAL ON/OFF/0-10V DIMMING ROOM CONTROLLERS WITH TWO RELAYS, WATT STOPPER LMRC-212
	DIGITAL ON/OFF/0-10V DIMMING ROOM CONTROLLERS WITH THREE RELAYS, WATT STOPPER LMRC-213
	DLW8 RELAY PANEL FOR DIGITAL LIGHTING CONTROLS COMPLETE WITH WEATHER PROOF ENCLOSURE
	15A/125V DUPLEX "U" GROUND RECEPTACLE WALL MOUNTED
	15A, 120V HALF SWITCHED DUPLEX RECEPTACLE.
	15A, 120V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER.
	20A, 120V T-SLOT DUPLEX RECEPTACLE
	15A, 120V ISOLATED GROUND DUPLEX RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT AND MOUNTED ABOVE COUNTER
	15A, 120V ISOLATED GROUND DUPLEX RECEPTACLE WITH SEPARATE NEUTRAL & GROUND WIRE PER CIRCUIT
	15A, 120V DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE.
	15A, 120V DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE MOUNTED ABOVE COUNTER.
	RECEPTACLE MOUNTED ABOVE COUNTER
	TAMPER RESISTANT RECEPTACLE
	20A CEILING MOUNTED EMS SHORE CORD ASSEMBLIES.
	20A, 120V DUPLEX RECEPTACLE WITH USB CHARGER, TAMPER RESISTANT (SG:SINGLE GANG, DG: DOUBLE GANG, QG: QUAD GANG.
	15A, 120V SINGLE RECEPTACLE.
	50A, 250V 3 WIRE RANGE RECEPTACLE.
	SPECIAL RECEPTACLE AS INDICATED
	OUTLET FOR SECURITY SIREN/ALARM HORN
	20A, 120V, T-SLOT, 1 PHASE, GROUNDED "DOUBLE" DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE MOUNTED.
	SPEED CONTROL FOR FAN
	MAGNETIC MOTOR STARTER
	AUTOMATIC DOOR OPERATOR
	AUTOMATIC DOOR OPERATOR PUSH BUTTON
	CABLE T.V. OUTLET

ELECTRICAL DRAWING LIST

- E1 LEGEND, SCHEDULES AND DRAWING LIST  
E2 ELECTRICAL SITE PLAN  
E3 ELECTRICAL SITE PLAN DETAILS  
E4 POWER AND SYSTEMS PLAN AND DETAILS  
E5 SECURITY PLAN LEGEND AND DETAILS  
E6 LIGHTING PLAN AND DETAILS  
E7 FIRE ALARM PLAN AND DETAILS  
E8 PANEL SCHEDULES AND SINGLE LINE DIAGRAM  
E9 LIGHTING CONTROL DETAILS  
E10 ELECTRICAL SITE PLAN DETAILS (ALECTRA)  
E11 ELECTRICAL SITE PLAN DETAILS (ALECTRA)  
E12 ELECTRICAL SITE PLAN DETAILS (ALECTRA)

LIGHT FIXTURE SCHEDULE				
FIXTURE TYPE	DESCRIPTION	MANUFACTURER	MODEL NO.	OR EQUIVALENT BY
A	2'x4' LED RECESSED TROFFER, ALUMINUM CONSTRUCTION, 3500K/4000K/5000K, 4500 MAX LUMENS COLOUR SELECTABLE, CCT, 30/40/50 WATTS. SELECTABLE, 0-10V DIMMING, 120V	SYLVANIA	PANEL F4BS050UNHD 85C724GWH	EATON METALUX PEERLESS HUBBELL PHILIPS, GE
B	4' LED UNDER CABINET DIMMABLE LINEAR LIGHT BAR, 9.7 WATTS, 466 LUMENS, 3000-3500K CCT, 12V DC C/W POWER SUPPLY.	GREEN IMAGE	GS-SR46-A-30-	GM LIGHTING HALO COLUMBIA PHILIPS, GE
C	8' SUSPENDED, DUST AND WEATHER RESISTANT, CORROSION FREE, IP 65-67 RATED LED FIXTURE, 9130 LUMENS, 59W, 4000K CCT, 120V, STAINLESS STEEL LATCHES, 90 CRI 120V, OCCUPANCY SENSOR.	PIONEER LIGHTING	S-T0-0898-10.1L-4000-120-SS-OC, 92 CRI.	EATON METALUX PHILIPS GE LITHONIA
D	SUSPENDED LED FIXTURE, DUST AND WEATHER RESISTANT WITH HIGH IMPACT POLYCARBONATE LENS, STAINLESS STEEL LATCHES, 120V, 56W, 5400 LUMENS, 90 CRI, 3500K CCT, IP67 RATED, OCCUPANCY SENSOR BUILT IN.	PIONEER LIGHTING	S-T0-0850-5.4-4000-120-DR-SS-OS	COOPER METALUX PEERLESS HUBBELL HUBBELL, PHILIPS
F	2'x4' LED RECESSED TROFFER, ALUMINUM CONSTRUCTION, 4500 MAX LUMENS, 3500K/4000K/5000K COLOUR SELECTABLE, CCT, 30/40/50 WATTS. SELECTABLE, 0-10V DIMMING, 120V	SYLVANIA	PANEL F4BS050UNHD 85C724GWH	EATON METALUX PEERLESS HUBBELL PHILIPS, GE
G	4" LED DOWNLIGHT, WET LOCATION, WHITE REFLECTOR, WHITE TRIM, 650 LUMENS, 10.7 WATTS, 120V, 4000K CCT, 90CRI.	NORA LIGHTING	NOXAC 43140 WW/HL C/W HOUSING FOR NEW CONSTRUCTION	PEERLESS PRESCOLITE HALO GE
H	6" LED DOWNLIGHT, WHITE REFLECTOR AND TRIM, 1162 LUMENS, 12.5 WATTS, 120V, 4000K CCT, 90 CRI.	NORA LIGHTING	NOXAC 563140 WW C/W HOUSING FOR NEW CONSTRUCTION	PEERLESS PRESCOLITE HALO GE
J	4' SURFACE MOUNTED LED STRIP FIXTURE WITH WIRE GUARD, 2678 LUMENS, 26 WATTS, 4000K CCT, 120V CURVED FROSTED ACRYLIC DIFFUSER.	PIONEER LIGHTING	SST-0246-3.4L-40K-120-WG	EATON METALUX PEERLESS LITHONIA PHILLIPS, GE
K	FULL CUT-OFF LED WALLPACK, 1629 LUMENS, 13.9W, 3000K CCT, 120V, DIE-CAST ALUMINUM HOUSING, BLACK COLOUR.	LSI INDUSTRIES INC.	WLS-LED-1L-UNV-DIM-30-BLK	EATON-LUMARK HUBBELL WILLIAMS
L	4' LONG SURFACE MOUNTED NARROW EXTRUDED ALUMINUM LINEAR DIRECT LED, 1690 LUMENS, 16 WATTS, 3000K CCT, 80 CRI, 120V, 0-10V DIMMING, WHITE COLOUR.	FOCAL POINT	FSM2L-FL-375LF-40K-1C-UNV-LD1-SM-WH	PAL PHILIPS
M	729mm x 407mm LED AREA LIGHTING FIXTURE ON A 3.85m HIGH STEEL TAPERED POLE ON A 550mm ABOVE GRADE CONCRETE BASE. POLE AND LUMINAIRE TO BE BLACK FINISH. 4600 LUMENS, 3000K CCT, 30W, 120V, TYPE 5 WIDB OPTICS, BUG RATING B0-U0-G2.	LSI INDUSTRIES INC.	SLM-LED-09L (MODIFIED 60%LESS) SIL-SW-30-70CRI-1L-BLK-MOD 60%	HUBBLE EATON McGRAW-EDISON CANLYTE
P	729mm x 407mm LED AREA LIGHTING FIXTURE ON A 3.85m HIGH STEEL TAPERED POLE ON A 550mm ABOVE GRADE CONCRETE BASE. POLE AND LUMINAIRE TO BE BLACK FINISH. 3200 LUMENS, 3000K CCT, 30W, 120V FORWARD THROW OPTICS, BUG RATING B0-U0-G2.	LSI INDUSTRIES INC.	SLM-LED-09L (MODIFIED 60%LESS) SIL-FT-30-70CRI-1L-BLK	HUBBLE EATON McGRAW-EDISON CANLYTE

GENERAL NOTES

EMERGENCY LIGHTING & EXIT SCHEDULE			
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL No.
	NEW EMERGENCY LIGHTING BATTERY PACK, 100 WATTS, 12VDC, 10 YEAR C/W TWO 5W MR16 LED HEADS	LUMACELL OR APPROVED EQUAL	RG12S100/LD9
	NEW EMERGENCY LIGHTING BATTERY PACK, 100 WATTS, 12VDC, 10 YEAR	LUMACELL OR APPROVED EQUAL	RG12S100
	SINGLE REMOTE HEAD, 12VDC, 5W, MR16	LUMACELL OR APPROVED EQUAL	MQM1LD9
	DUAL REMOTE HEAD, 12VDC, 5W, MR16	LUMACELL OR APPROVED EQUAL	MQM2LD9
	NEW EXTRUDED ALUMINUM SELF POWERED PICTOGRAM "RUNNING MAN" EXIT SIGN, DOUBLE FACE, WALL OR CEILING MOUNT AS INDICATED, ARROWS AS INDICATED, LED LAMPS FOR 120VAC, CSA-22.2 NO.141-10 LISTED AND CERTIFIED, C/W NICAD BATTERY AND BRUSHED ALUMINUM HOUSING.	LUMACELL OR APPROVED EQUAL	LA2WS
	NEW EXTRUDED ALUMINUM SELF POWERED PICTOGRAM "RUNNING MAN" EXIT SIGN, SINGLE FACE, WALL OR CEILING MOUNT AS INDICATED, ARROWS AS INDICATED, LED LAMPS FOR 120VAC, CSA-22.2 NO.141-10 LISTED AND CERTIFIED, C/W NICAD BATTERY AND BRUSHED ALUMINUM HOUSING.	LUMACELL OR APPROVED EQUAL	LA1WS
	DUAL REMOTE HEAD, 12V DC, 5W, MR16 LED, WEATHERPROOF, NEMA 4X.	LUMACELL OR APPROVED EQUAL	MQM2NX LD9

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

ISSUE OR REVISION

NO.	ISSUED FOR	DATE
1	60% DD Client Review	2020.03.16
2	60% DD Client Review Resubmit	2020.09.25
3	90% DD Client Review	2020.10.18
4	Final Coordination	2021.05.28
5	Pre-tender Response	2023.08.18
6	Permit Response	2024.02.15
7	100% Review Comments Response	2024.09.04
8	Issued For Permit	2025.10.09
9	Issued For Tender	2025.10.30

YORK REGION PRS #33

2960 TESTON ROAD, VAUGHAN

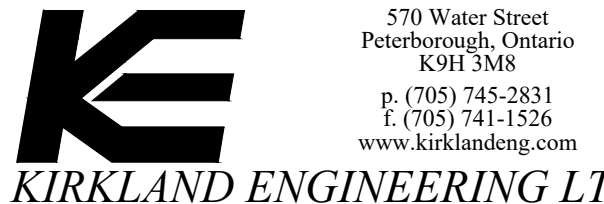
PROJECT :

CLIENT



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

ENGINEER



PROFESSIONAL SEAL



ELECTRICAL BCIN 23406

DWG TITLE

LEGEND, SCHEDULES AND DRAWING LIST

ORIENTATION

DATE JANUARY 2020

SCALE As indicated DRAWN BY KER

DWG STATUS :

DESIGN

PROJECT NO.

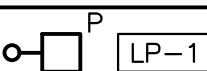







6467









DRAWING NO.

E1

REVISION



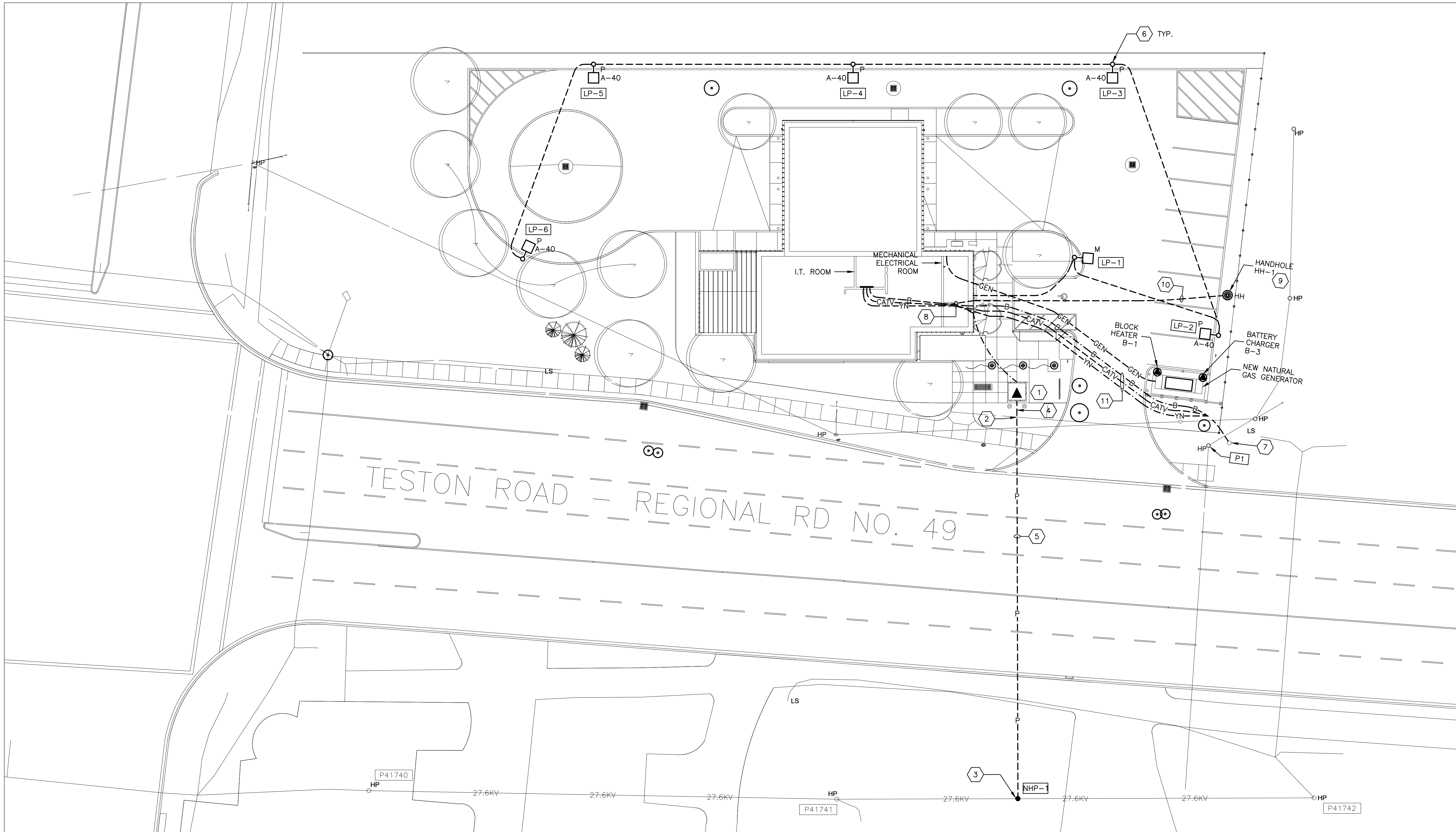
SITE PLAN LEGEND	
SYMBOL	DESCRIPTION
 LP-1	NEW LIGHTING POLE AND TAG NUMBER. LETTER INDICATES FIXTURE TYPE.
	NEW 120/208V, 3P, 4W UNDERGROUND SECONDARY FEEDER
	NEW UNDERGROUND LIGHTING FEEDER
	NEW 3P OVERHEAD PRIMARY FEEDER
HP  CP1	NEW CUSTOMER OWNED HYDRO POLE WITH TAG NUMBER
	UNDERGROUND GENERATOR DUCTBANK
	NEW UNDERGROUND PRIMARY FEEDER.
NHP-1 	NEW HYDRO POLE AND TAG NUMBER

SITE PLAN LEGEND (CONTINUED)	
SYMBOL	DESCRIPTION
HP  P1	EXISTING HYDRO POLE AND TAG NUMBER
	EXISTING 27.6KV OVERHEAD HYDRO LINE.
	NEW PAD MOUNTED 27.6KV - 120/208V 3 - PHASE TRANSFORMER.
	NEW UNDERGROUND BELL CONDUIT
	NEW UNDERGROUND CABLE TV CONDUIT
	NEW UNDERGROUND CONDUIT FOR YORKNET
	NEW UNDERGROUND PRIMARY.
 HH	HAND HOLE

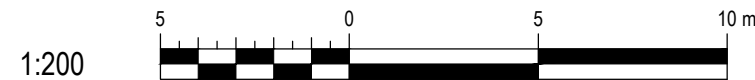
#### NOTES

- 1 NEW PADMOUNT TRANSFORMER SUPPLIED BY ALECTRA SERVICE. COORDINATE WORK WITH ALECTRA (1-877-963-6900 X. 25713)
- 2 ALECTRA UTILITIES WILL BE RESPONSIBLE TO CONNECT DIRECTIONAL BORED DUCTS TO CONTRACTOR INSTALLED DUCT BANK AT PROPERTY LINE.
- 3 ALECTRA UTILITIES TO PROVIDE NEW POLE NHP-1.
- 4 CONTRACTOR TO PROVIDE 4x103mm CONCRETE ENCASED CUTS FROM PROPERTY LINE TO NEW PADMOUNT TRANSFORME AS PER ALECTRA STANDARDS.
- 5 ALECTRA UTILITIES TO PROVIDE DIRECTIONAL BORING ACROSS TESTON ROAD TO PROPERTY LINE OF NEW PRS#33.

- 6 SEE DETAIL 4 ON ARCHITECTURAL DRAWING A1.5 FOR DETAILS OF CONCRETE POLE BASE.
- 7 COORDINATION END LOCATION OF BELL UNDERGROUND CONDUIT WITH BELL CANADA. CAP CONDUIT UNDERGROUND AND PROVIDE A WOOD STAKE TO MARK THE LOCATION OF THE END OF THE CONDUIT. THE STAKE SHALL BE 2"x4" AND SHALL EXTEND 3'-0" ABOVE FINISHED GRADE AND MARKED 'BELL'. OBTAIN FROM BELL CANADA THE LETTER FOR ACCESS NETWORK PROVISIONING ALL FOLLOW ALL REQUIREMENTS OUTLINED IN THE LETTER.
- 8 PROVIDE PULL ROPES IN EMPTY CONDUITS.
- 9 SEE DETAIL 4 ON DRAWING E3 FOR HAND HOLE.
- 10 PROVIDE 53mm DIRECT BURIED RIGID PVC CONDUIT FROM PANEL 'A' TO HANDHOLE HH-1 FOR FUTURE DUAL LEVEL II EV CHARGERS.
- 11 THREE 103mm dia. PVC CONDUIT OR POLYPIPE FOR BELL, CATV AND YORKNET.



1 ELECTRICAL SITE PLAN  
E2 SCALE:



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

#### ISSUE OR REVISION

NO.	ISSUED FOR	DATE
1	60% DD Client Review	2020.03.16
2	60% DD Client Review Resubmit	2020.09.25
3	90% DD Client Review	2020.10.18
4	Final Coordination	2021.05.28
5	Pre-tender response	2023.08.18
6	Alectra Submission	2023.12.22
7	Alectra Submission	2024.02.13
8	Permit Response	2024.02.15
9	100% Review Comments Response	2024.09.04
10	Issued For Permit	2025.10.09
11	Issued For Tender	2025.10.30

PROJECT:

YORK REGION PRS #33

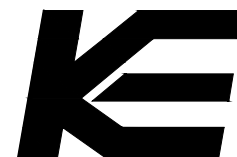
2960 TESTON ROAD, VAUGHAN

CLIENT



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

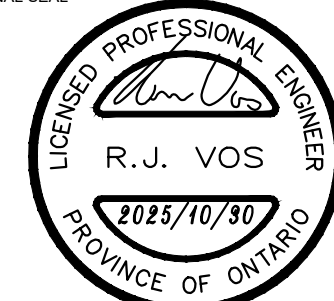
ENGINEER



570 Water Street  
Peterborough, Ontario  
K9H 3M8  
p. (705) 745-2831  
f. (705) 741-1526  
www.kirklandeng.com

KIRKLAND ENGINEERING LTD.

PROFESSIONAL SEAL

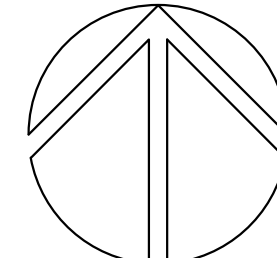


ELECTRICAL BCIN 23406

DWG TITLE

ELECTRICAL SITE  
PLAN

ORIENTATION



DATE

JANUARY 2020

SCALE

As indicated

DRAWN BY

KER

DWG STATUS:

DESIGN

PROJECT NO.

6467

DRAWING NO.

E2

REVISION



3000 PSI CONCRETE FORM POURED

103mm dia. PVC DUCT DB/EB TYPE 2 (TYP. OF 4)

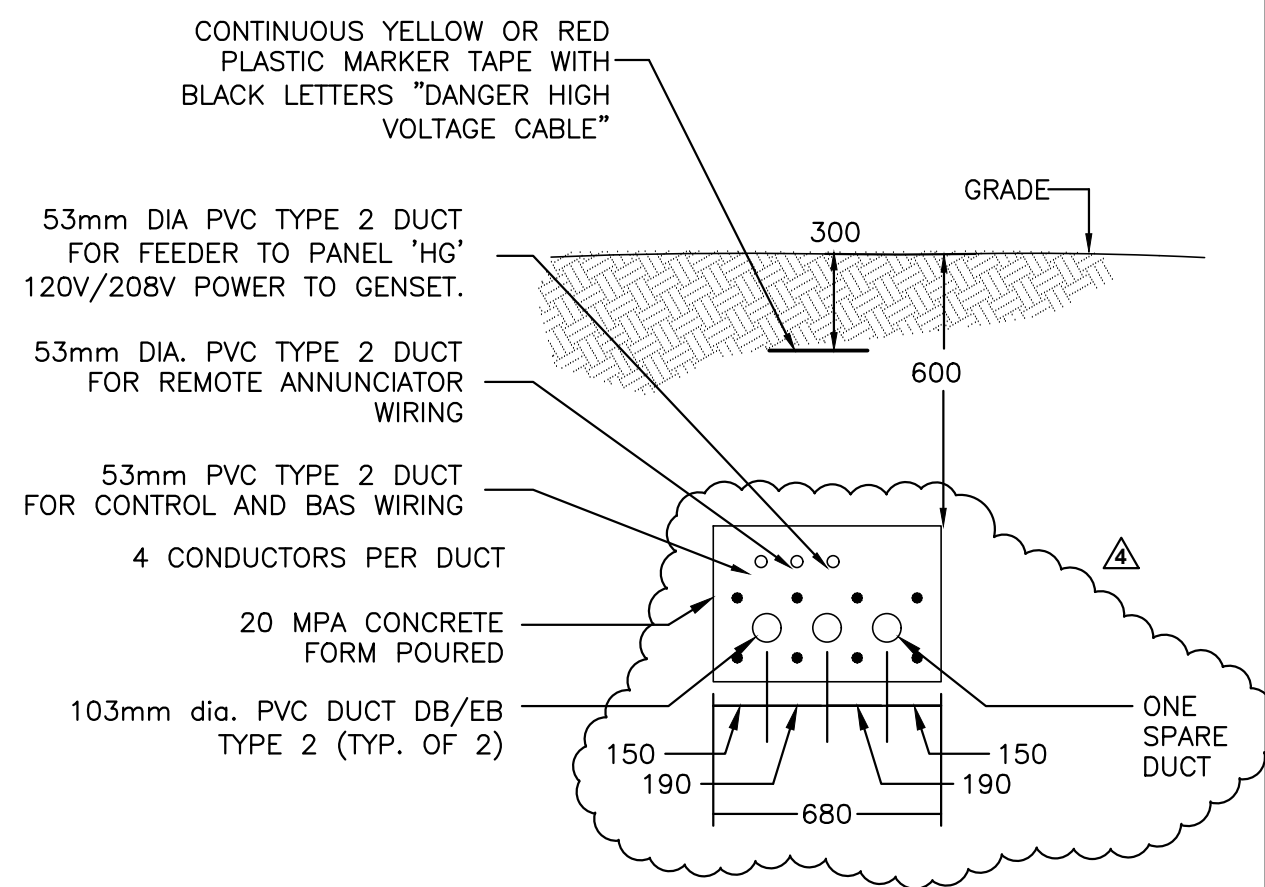
ONE SPARE DUCT

NOTE 2

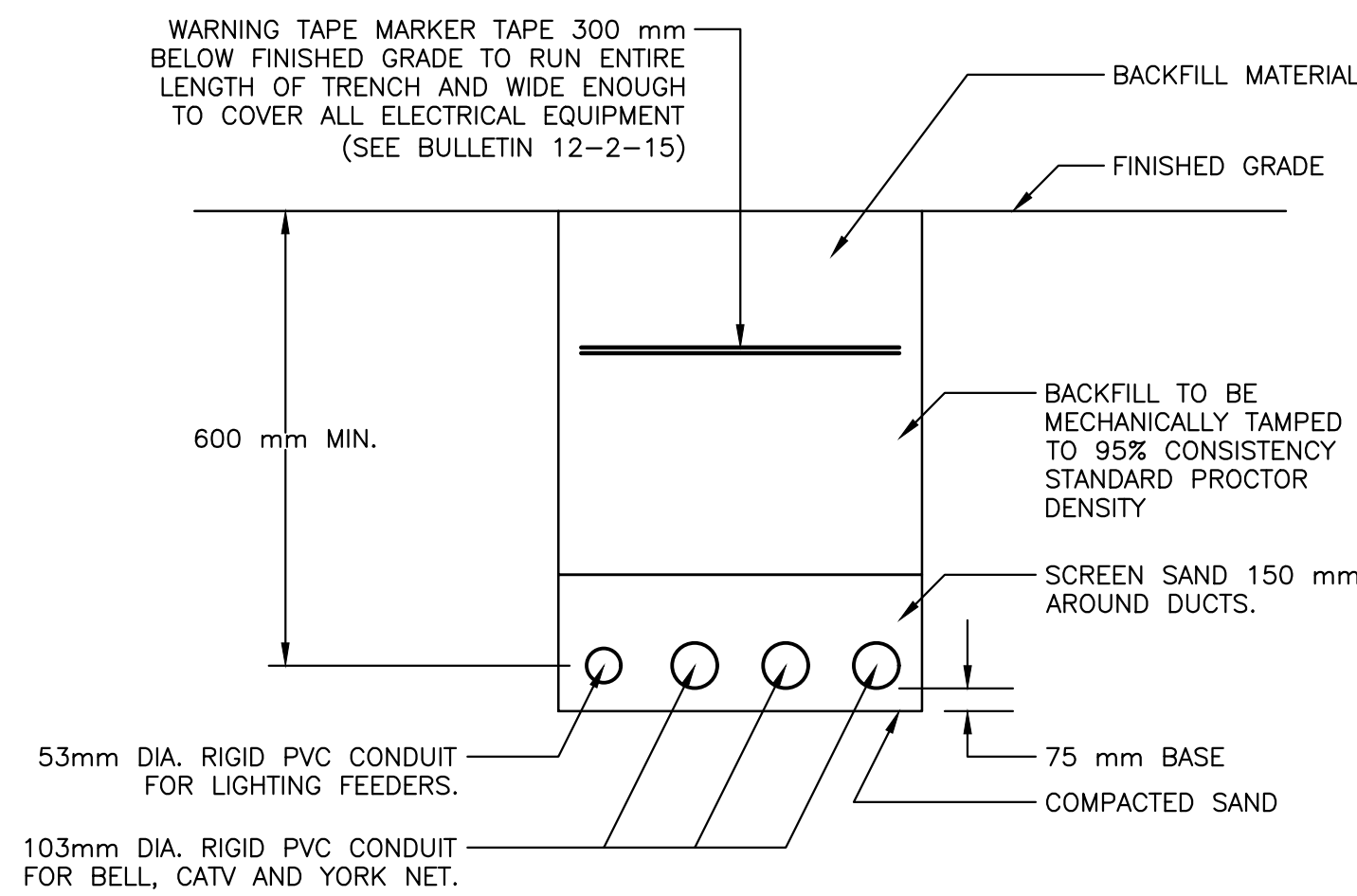
150 190 680 190 150

1. INSTALL 10 mm POLYPROPYLENE PULL CORD IN SPARE DUCT.
2. STEEL REINFORCING BAR, QTY. 3, TO BE ENCASED 1" MINIMUM. REQUIRED ONLY WHERE SUBJECT TO VEHICULAR LOAD.
3. EXCAVATION, TRENCHING, BACKFILLING AND COMPACTION BY ELECTRICAL CONTRACTOR.
4. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES
5. PROVIDE 150 mm OF SCREENED SAND ALL AROUND BELL/CATV DUCT.

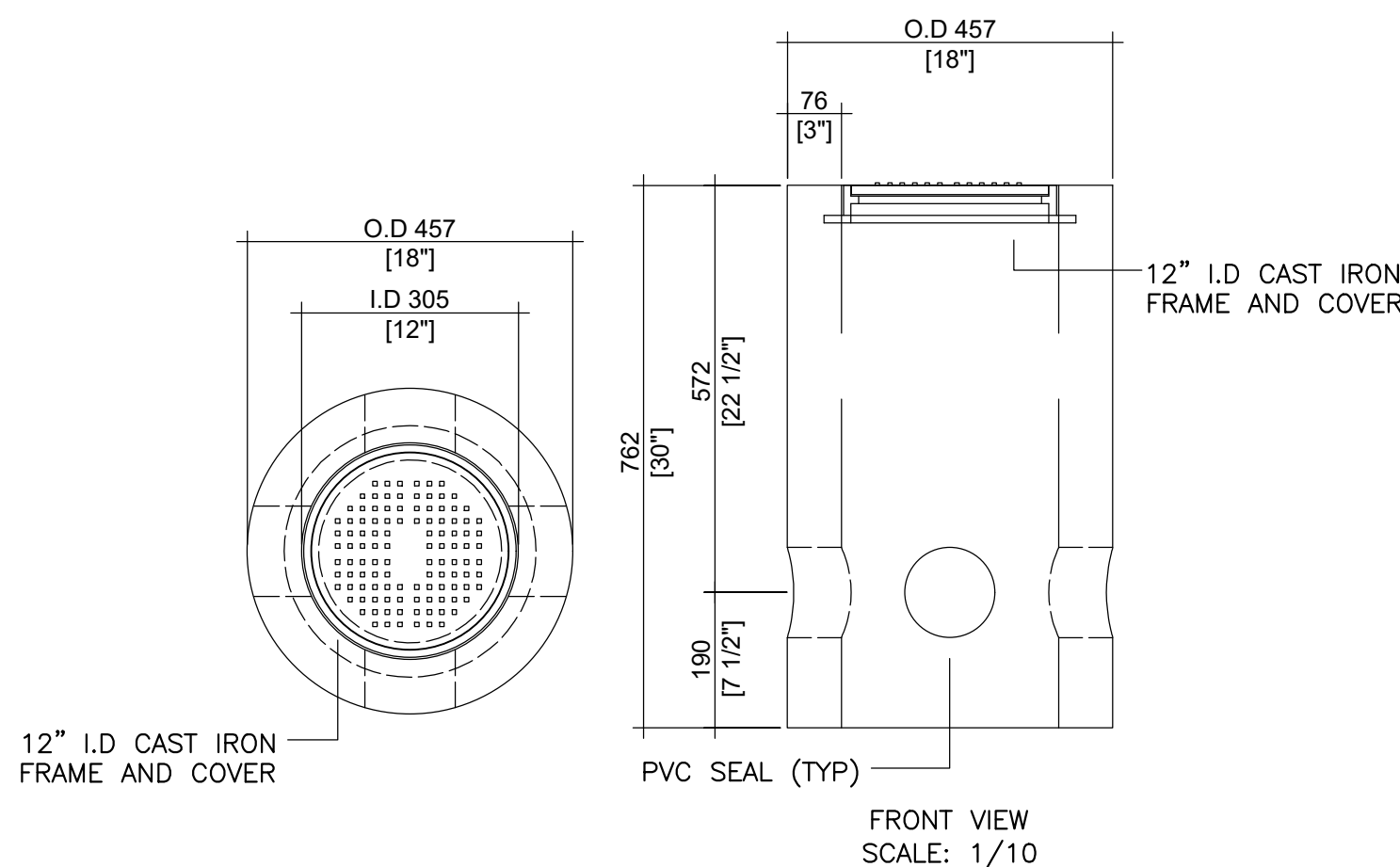
1 SECONDARY DUCT BANK DETAIL  
E3 SCALE: N.T.S.



2 GENERATOR DUCTBANK DETAIL  
E3 SCALE: N.T.S.



3 DIRECT BURIED CONDUIT FOR LIGHTING, BELL, CATV AND YN  
E3 SCALE: N.T.S.



1. CABLE ENTRY OPENINGS - 4-3/4" PVC SEALS.
2. DELIVERY IS MADE BY CRANE-EQUIPPED TRUCKS.
3. EXCAVATION MUST BE READY, SAFE AND ACCESSIBLE FOR UNLOADING FROM THE REAR OF THE TRUCK.
4. MIN OVERHEAD CLEARANCE OF 18FT IS REQUIRED.
5. ALL UNITS MUST BE HANDLED WITH PROPER LIFTING EQUIPMENT (I.E. SPREADER BAR)

4 HAND HOLE DETAIL  
E3 SCALE: N.T.S.

NO.	ISSUED FOR	DATE
1	60% DD Client Review	2020.03.16
2	60% DD Client Review Resubmit	2020.09.25
3	90% DD Client Review	2020.10.18
4	Final Coordination	2021.05.28
5	Pre-tender Response	2023.08.18
6	Permit Response	2024.02.15
7	100% Review Comments Response	2024.09.04
8	Issued For Permit	2025.10.09
9	Issued For Tender	2025.10.30

PROJECT: YORK REGION PRS #33

2960 TESTON ROAD, VAUGHAN

PROJECT:

**CLUE**



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

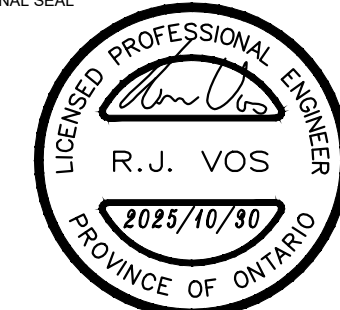
ENGINEER



570 Water Street  
Peterborough, Ontario  
K9H 3M8  
p. (705) 745-2831  
f. (705) 741-1526  
[www.kirklandeng.com](http://www.kirklandeng.com)

**KIRKLAND ENGINEERING LTD**

PROFESSIONAL SEAL



ELECTRICAL BCIN 23400

DWG TITLE

## ELECTRICAL SITE PLAN DETAILS

## ORIENTATION

DATE JANUARY 2020

SCALE	DRAWN BY
As indicated	KER

DWG STATUS

## DESIGN

PROJECT NO. \_\_\_\_\_

6467

DRAWING N

6467

DRAWING N

E3

REVISION
----------

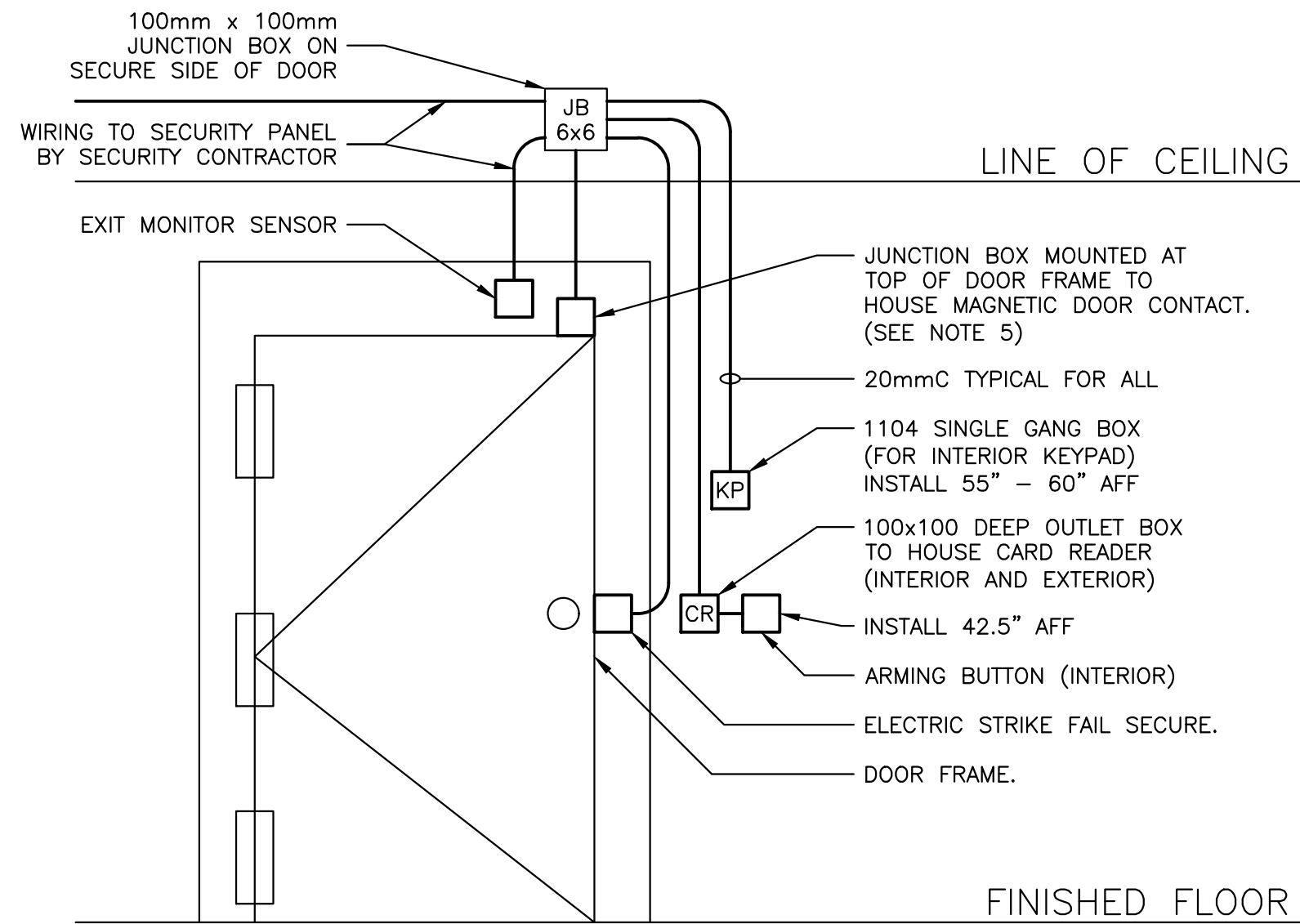






NOTES

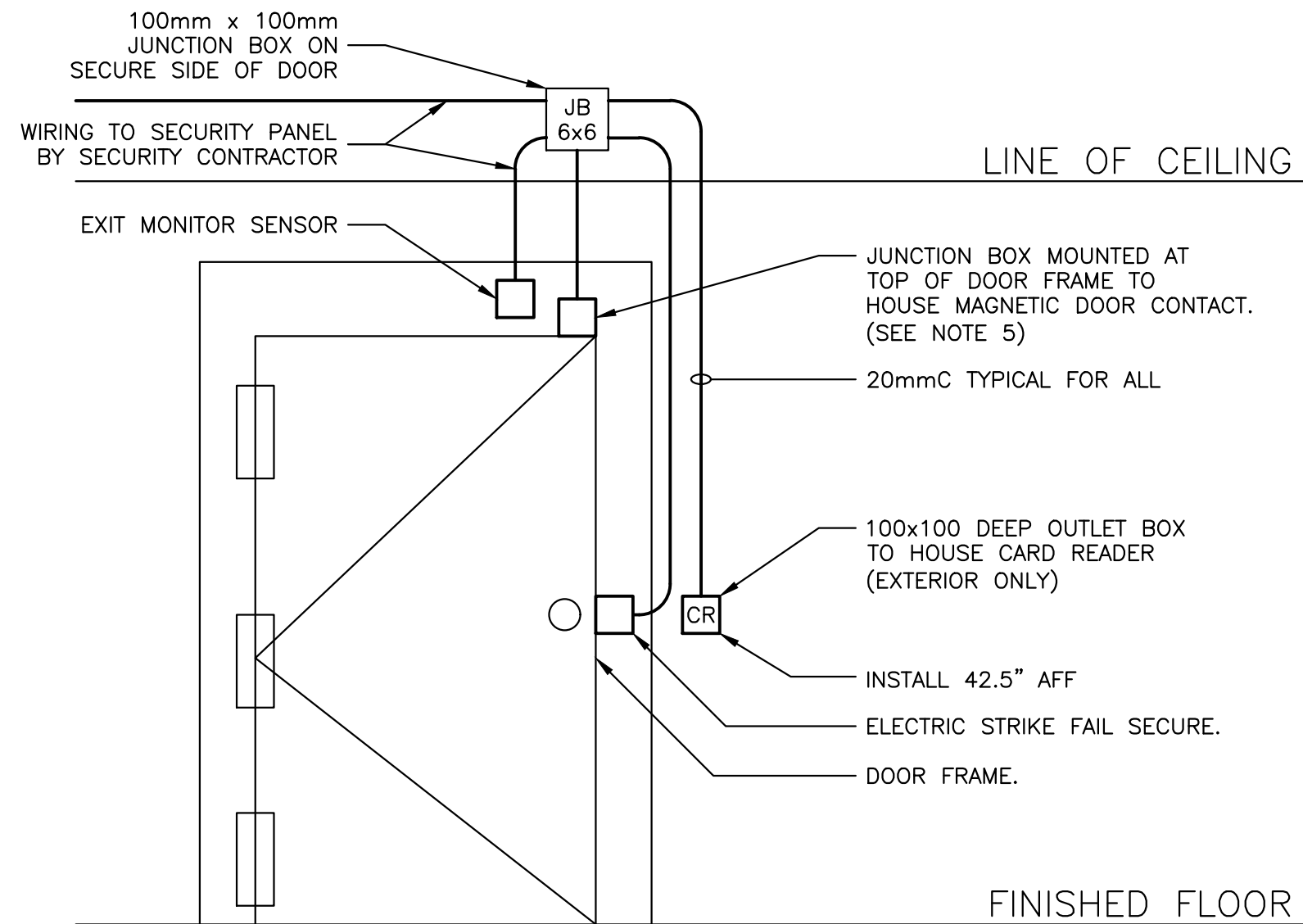
- ALL DOOR HARDWARE AND SECURITY DEVICES SHALL BE OF TYPE AND CONFIGURED TO PROVIDE FREE EGRESS AT SECURE SIDE OF DOOR.
- FOR EXACT DEVICES, REFER TO SPECIFICATIONS AND DEVICE SUMMARY MATRIX.
- CONTRACTOR SHALL PROVIDE BACKBOXES AND CONDUIT C/W PULLSTRINGS.
- ALL DEVICES AND WIRING SHALL BE SUPPLIED AND INSTALLED BY APPROVED SECURITY CONTRACTOR.
- PROVIDE 25 DIAMETER HOLE AT DOOR FRAME AND TOP OF DOOR.



2 ARMING/DISARMING ENTRY SINGLE DOOR DETAIL  
E5 SCALE: N.T.S.

NOTES

- ALL DOOR HARDWARE AND SECURITY DEVICES SHALL BE OF TYPE AND CONFIGURED TO PROVIDE FREE EGRESS AT SECURE SIDE OF DOOR.
- FOR EXACT DEVICES, REFER TO SPECIFICATIONS AND DEVICE SUMMARY MATRIX.
- CONTRACTOR SHALL PROVIDE BACKBOXES AND CONDUIT C/W PULLSTRINGS.
- ALL DEVICES AND WIRING SHALL BE SUPPLIED AND INSTALLED BY APPROVED SECURITY CONTRACTOR.
- PROVIDE 25 DIAMETER HOLE AT DOOR FRAME AND TOP OF DOOR.



3 SECONDARY ENTRY SINGLE DOOR DETAIL  
E5 SCALE: N.T.S.

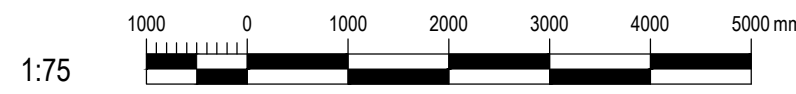
DRAWING NOTES

- PROVIDE DEDICATED 120VAC RECEPTACLE FOR SECURITY SYSTEM. USE CIRCUIT A-7.
- SECURITY CONTRACTOR TO INCLUDE MILESTONE SOFTWARE AND LICENSING IN THEIR PRICE. REQUIRED FOR THE CCTV SYSTEM.
- PROVIDE FIRE RATED PLYWOOD BACKBOARD FOR SECURITY PANELS. SEE ARCHITECTURAL DRAWINGS.
- OVERHEAD DOOR AND FOUR FOLD DOOR CARD READERS TO OPEN AND CLOSE DOORS ON VALID CARD READ.
- SECURITY CONTRACTOR TO PROVIDE SEQUENCING BOARD AND INTEGRATE CARD ACCESS WITH AUTOMATIC DOOR OPENER.
- NETWORK CABLING CONTRACTOR TO PROVIDE 5 NETWORK DROPS IN THE SECURITY CABINETS IN I.T. ROOM 109.
- WASHROOM PANIC BUTTONS TO BE CONNECTED TO THE SECURITY SYSTEM AND INTRUSION PANEL IN ORDER TO BE MONITORED BY FIRE MONITORING OF CANADA.
- CAMERA ON CORNER OF BUILDING AT LOCATION NOTED TO BE AXIS 3719-PL.
- OVERHEAD DOOR CONTACTS TO BE MOUNTED A MINIMUM OF 12 INCHES ABOVE FINISHED FLOOR.

GENERAL NOTES

- SECURITY CONTRACTOR TO WORK WITH YORK REGION TO INSTALL MILESTONE IN A DEVELOPMENT ENVIRONMENT AND TEST PRIOR TO THE LIVE DEPLOYMENT IN THE PRODUCTION ENVIRONMENT.
- SECURITY CONTRACTOR TO WORK WITH FMC TO CONNECT THE MONITORING EQUIPMENT TO THE BOSCH PANEL FOR WASHROOM PANIC.
- SECURITY CONTRACTOR TO INCLUDE MILESTONE SOFTWARE AND LICENSING IN THEIR PRICE REQUIRE FOR THE CCTV SYSTEM.
- SECURITY CONTRACTOR TO SUPPLY AND INSTALL ELECTRIC STRIKES ON ALL CARD ACCESS DOORS.

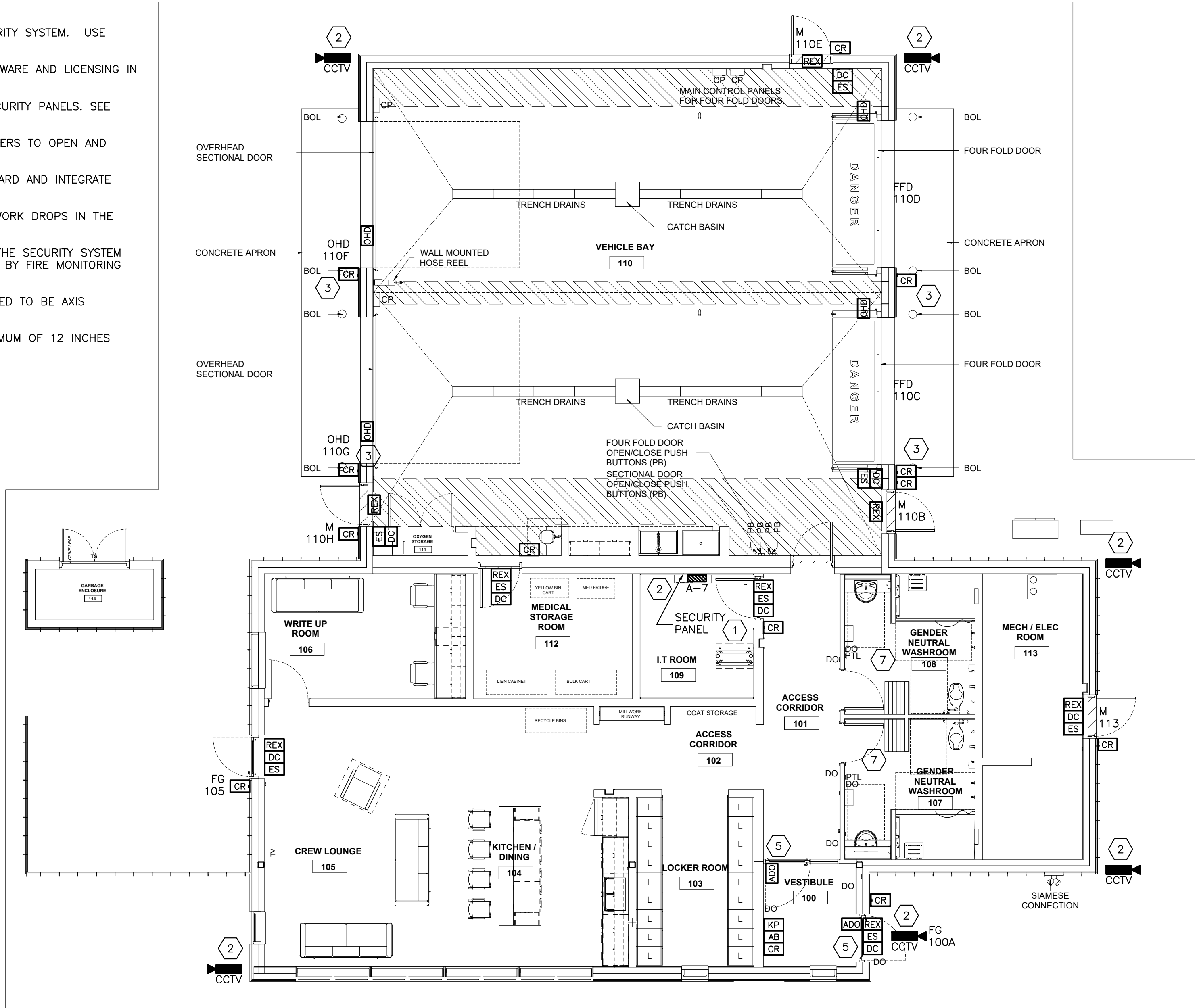
1 SECURITY PLAN  
E5 SCALE:



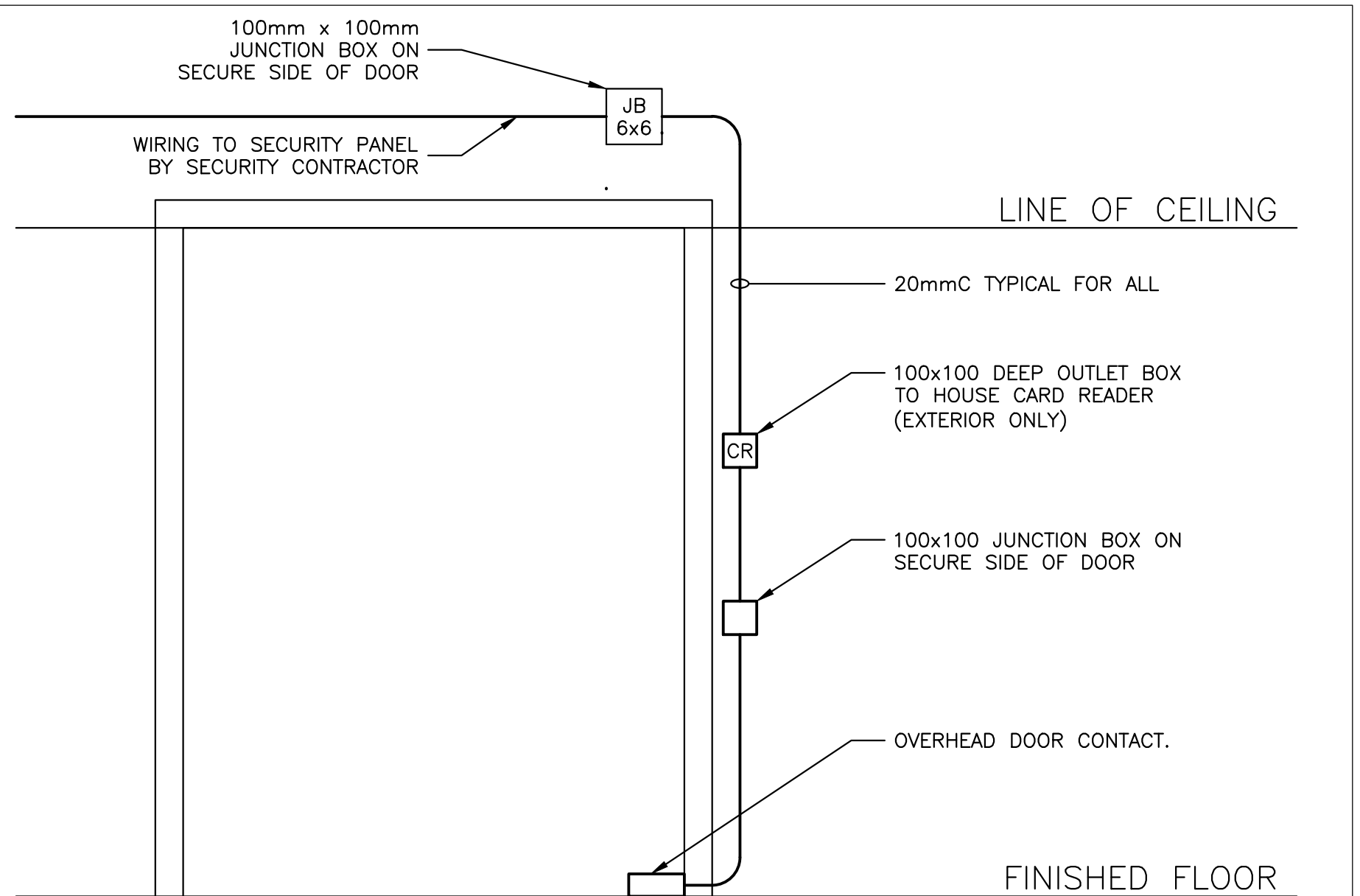
LEGEND OF SYMBOLS	
SYMBOLS	DESCRIPTION
[ES]	OUTLET FOR SECURITY DOOR STRIKE
[DC]	OUTLET FOR SECURITY CONCEALED DOOR CONTACT
[DHC]	OVERHEAD DOOR CONTACT
[AB]	ARMING BUTTON
[CR]	OUTLET FOR SECURITY HID CARD ACCESS READER
[EB]	LENEL CONTROL PANEL
[REX]	OUTLET FOR REQUEST TO EXIT
[CCTV]	OUTLET FOR CLOSED CIRCUIT SECURITY CAMERA
[ADO]	AUTOMATIC DOOR OPENER
[FFD]	FOUR FOLD DOOR CONTACT

NOTES

- ALL DOOR HARDWARE AND SECURITY DEVICES SHALL BE OF TYPE AND CONFIGURED TO PROVIDE FREE EGRESS AT SECURE SIDE OF DOOR.
- FOR EXACT DEVICES, REFER TO SPECIFICATIONS AND DEVICE SUMMARY MATRIX.
- CONTRACTOR SHALL PROVIDE BACKBOXES AND CONDUIT C/W PULLSTRINGS.
- ALL DEVICES AND WIRING SHALL BE SUPPLIED AND INSTALLED BY APPROVED SECURITY CONTRACTOR.
- PROVIDE 25 DIAMETER HOLE AT DOOR FRAME AND TOP OF DOOR.



4 OVERHEAD GARAGE DOOR WITH ACCESS CONTROL DETAIL  
E5 SCALE: N.T.S.



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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	60% DD Client Review	2020.03.16
2	60% DD Client Review Resubmit	2020.09.25
3	90% DD Client Review	2020.10.18
4	Final Coordination	2021.05.28
5	Pre-tender Response	2023.08.18
6	Permit Response	2024.02.15
7	100% Review Comments Response	2024.09.04
8	Issued For Permit	2025.10.09
9	Issued For Tender	2025.10.30

PROJECT: YORK REGION PRS #33

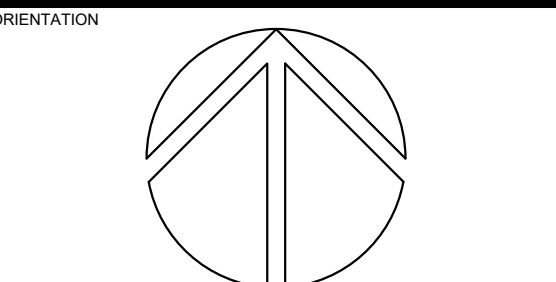
2960 TESTON ROAD, VAUGHAN



ENGINEER  
**K**  
570 Water Street  
Peterborough, Ontario  
K9H 3M8  
p. (705) 745-2831  
f. (705) 741-1526  
www.kirklandeng.com  
**KIRKLAND ENGINEERING LTD.**



DWG TITLE  
**SECURITY PLAN  
LEGEND AND  
DETAILS**



DATE  
**JANUARY 2020**

SCALE  
**As indicated**

DRAWN BY  
**KER**

DWG STATUS:  
**DESIGN**

PROJECT NO.  
**6467**

DRAWING NO.  
**E5**

REVISION

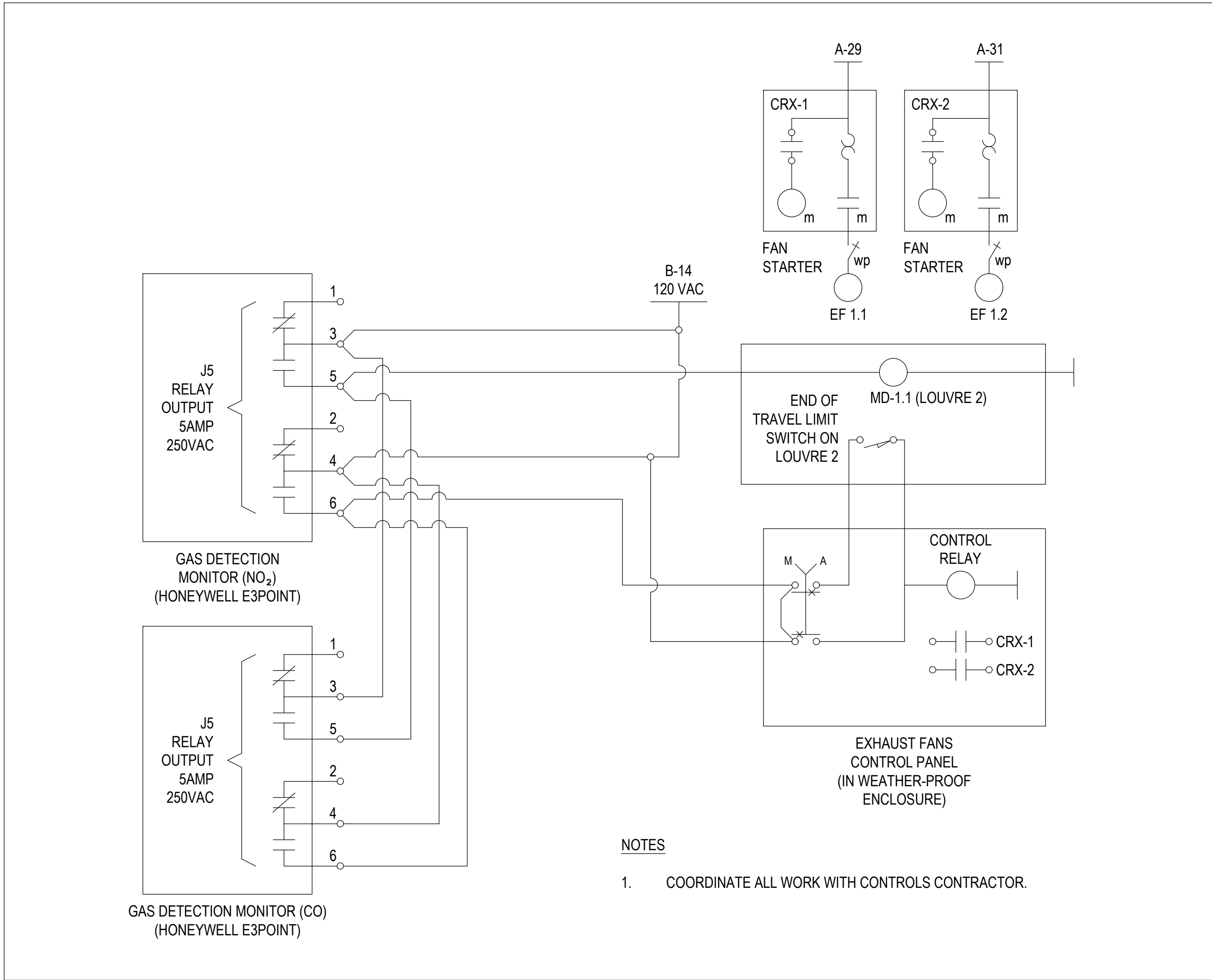


GENERAL NOTES

- A. REFER TO DRAWING E5 FOR SECURITY PLAN.
- B. EM3 NOTATION ON EMERGENCY LIGHTING HEADS INDICATES THAT REMOTE HEADS ARE CONNECTED TO BATTERY PACK EM3.

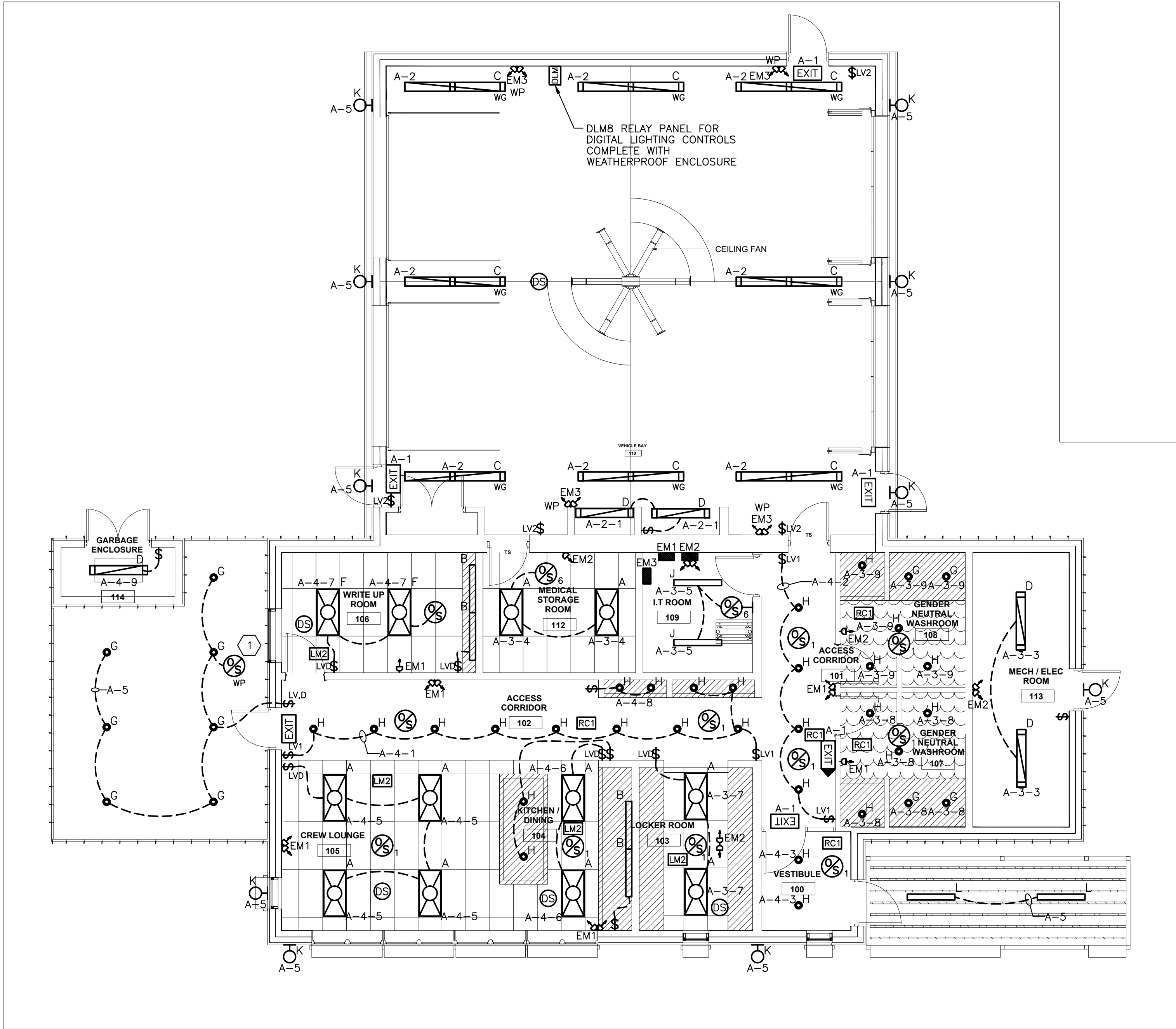
NOTES

- 1 PATIO LIGHTS SHALL BE TURNED ON BY MANUAL LOW VOLTAGE SWITCH AND OFF BY OCCUPANCY SENSOR AFTER NO ACTIVITY HAS BEEN DETECTED FOR A TIME OF NO LONGER THAN 15 MINUTES.



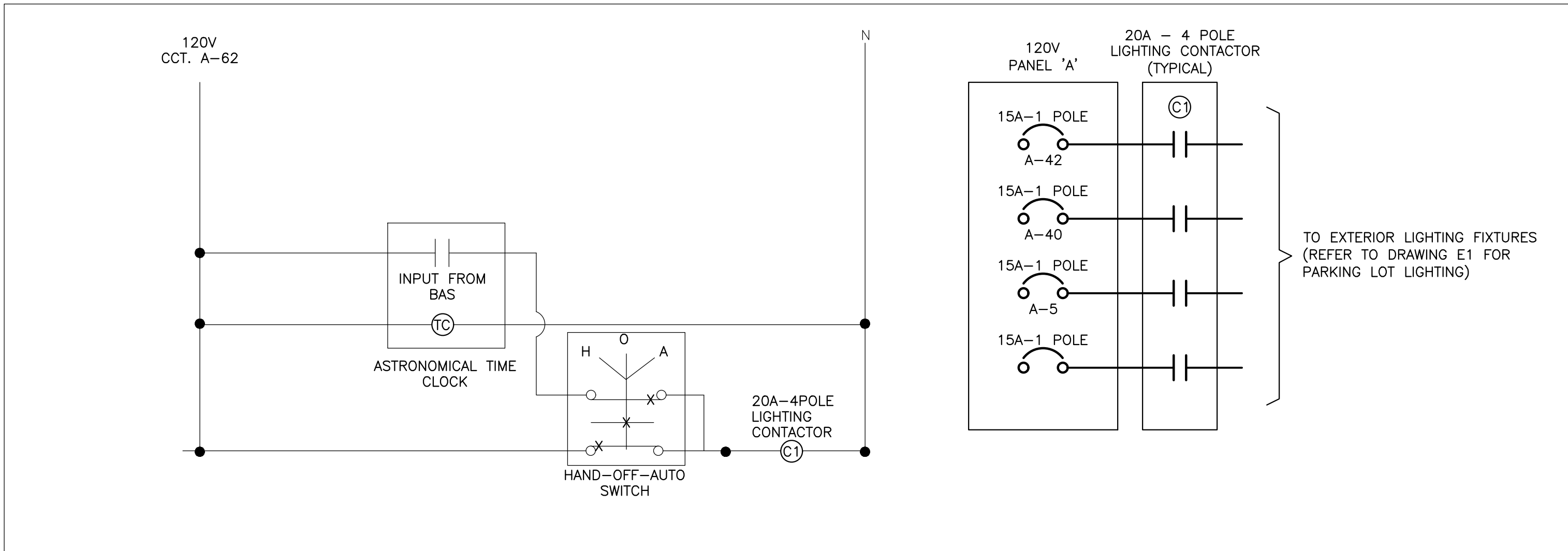
NOTES

1. COORDINATE ALL WORK WITH CONTROLS CONTRACTOR.



1 LIGHTING PLAN

E6 SCALE: 1:75



2 EXTERIOR LIGHTING CONTROL DETAILS

E6 SCALE: N.T.S.

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

ISSUE OR REVISION

NO.	ISSUED FOR	DATE
1	60% DD Client Review	2020.03.16
2	60% DD Client Review Resubmit	2020.09.25
3	90% DD Client Review	2020.10.18
4	Final Coordination	2021.05.28
5	Pre-tender Response	2023.08.18
6	Permit Response	2024.02.15
7	100% Review Comments Response	2024.09.04
8	Issued For Permit	2025.10.09
9	Issued For Tender	2025.10.30

PROJECT:

YORK REGION PRS #33

2960 TESTON ROAD, VAUGHAN

CLIENT



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

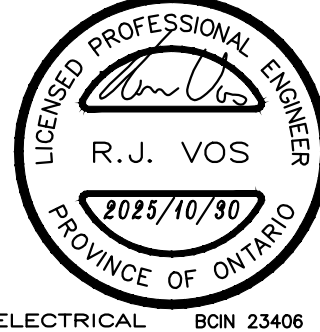
ENGINEER



570 Water Street  
Peterborough, Ontario  
K9H 3M8  
p. (705) 745-2831  
f. (705) 741-1526  
www.kirklandeng.com

KIRKLAND ENGINEERING LTD.

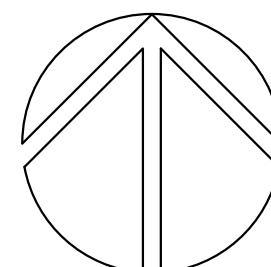
PROFESSIONAL SEAL



DWG TITLE

LIGHTING PLAN  
AND DETAILS

ORIENTATION



DATE

JANUARY 2020

SCALE

As indicated

DRAWN BY

KER

DWG STATUS:

DESIGN

PROJECT NO.

6467

DRAWING NO.

E6

REVISION

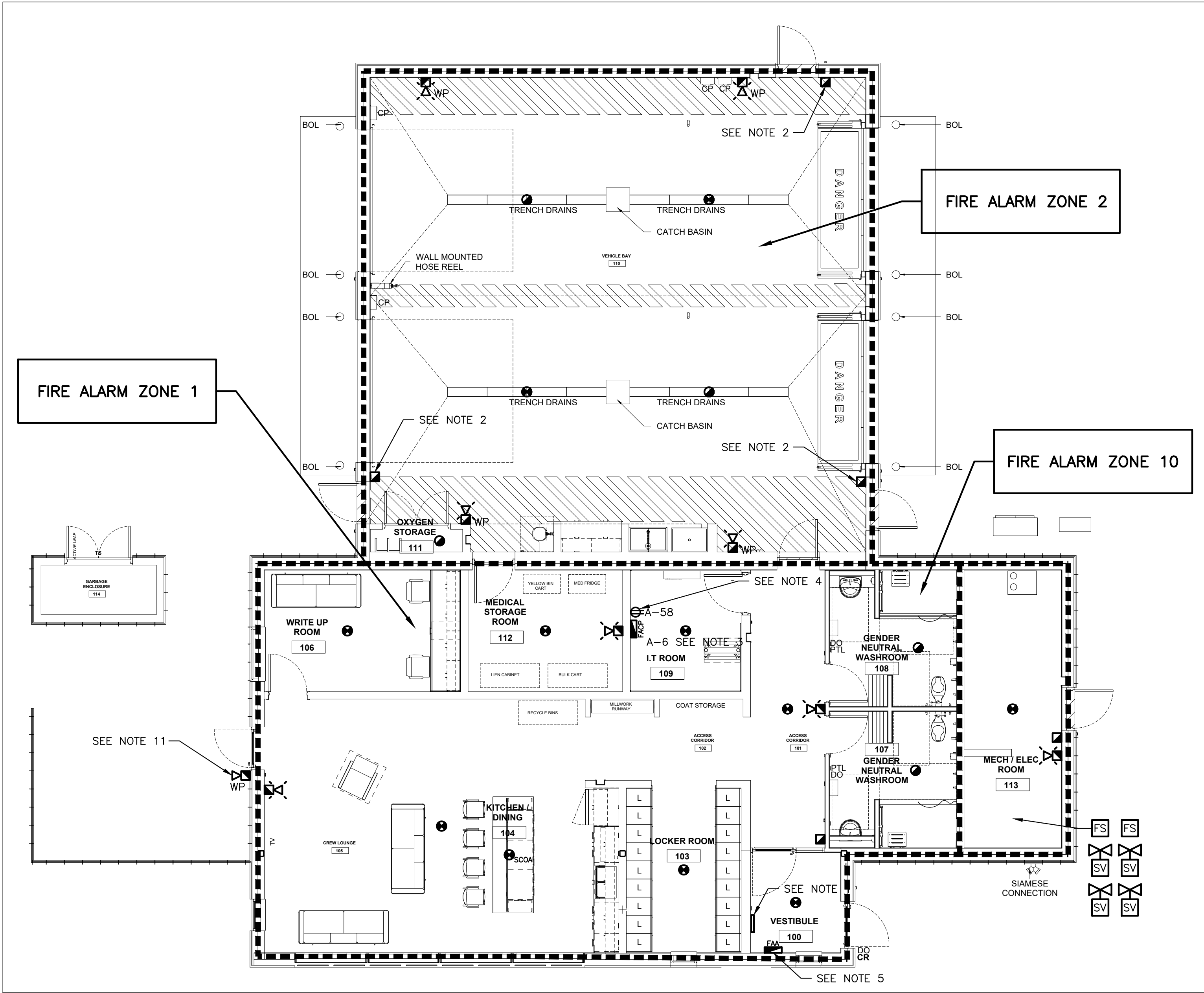


SCHEDULE OF FIRE ALARM ANNUNCIATOR ZONES

F/A ZONE	SPRINKLER ZONE	TROUBLE ZONE	DESCRIPTION
1			EMS CREW AREA
2			EMS VEHICLE BAY
		3	GENERATOR ALARM
	4		WET SPRINKLER FLOW VALVE
		5	WET SPRINKLER SUPERVISED VALVE
	6		DRY SPRINKLER FLOW VALVE
		7	DRY SPRINKLER SUPERVISED VALVE
		8	BACK FLOW PREVENTOR SUPERVISED VALVE
		9	BACK FLOW PREVENTOR SUPERVISED VALVE
10			MECHANICAL/ELECTRICAL ROOM

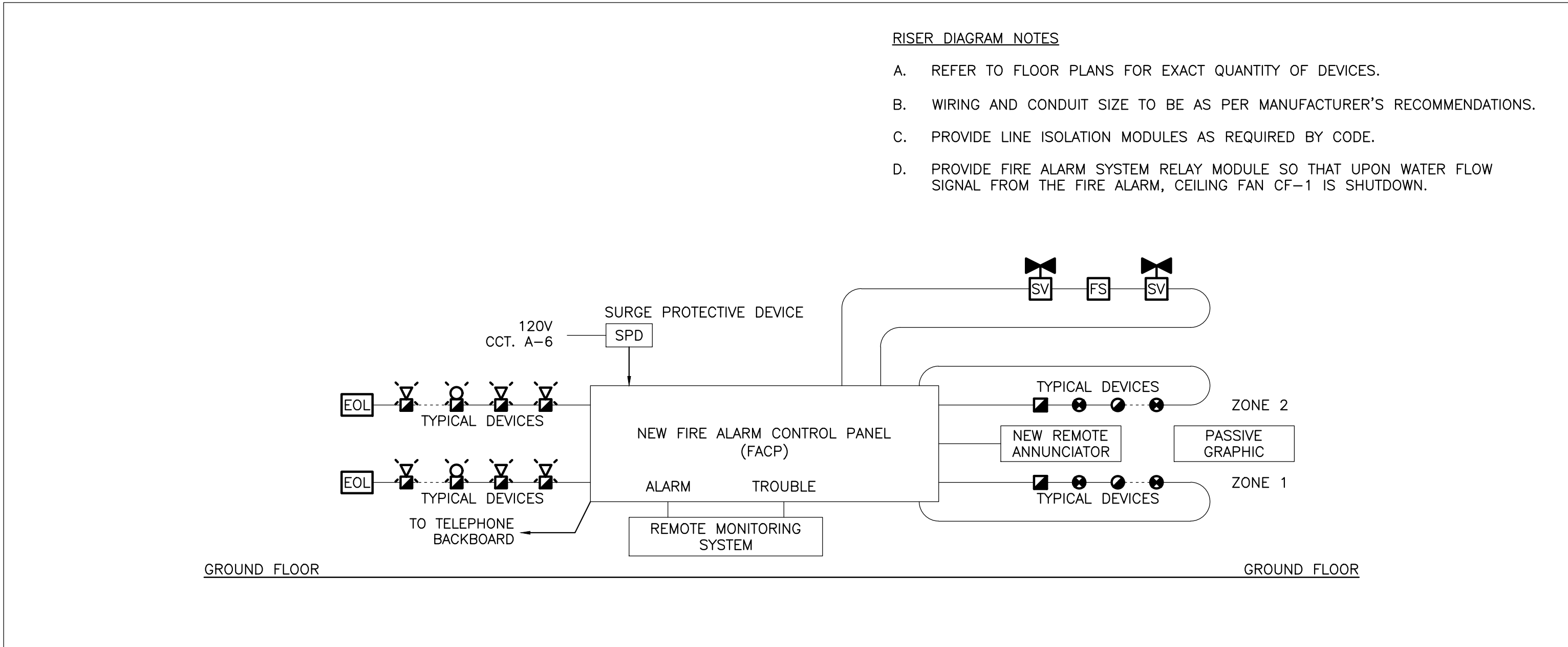
NOTES

1. PROVIDE FIRE ALARM PASSIVE GRAPHIC NEXT TO FIRE ALARM ANNUNCIATOR.
2. IN VEHICLE BAYS PROVIDE PLASTIC COVERS WITH LOCAL HORNS FOR PULL STATIONS.
3. PROVIDE DEDICATED 120V, 15A CIRCUIT FOR FIRE ALARM CONTROL PANEL.
4. PROVIDE DEDICATED 120V, 15A CIRCUIT FOR FIRE ALARM MONITORING EQUIPMENT WHICH WILL BE PROVIDED BY YORK REGION.
5. PROVIDE 21mm EMT CONDUIT FROM FIRE ALARM ANNUNCIATOR TO I.T. ROOM 109.
6. OBTAIN A COMPLETE LIST OF SPRINKLER ZONE REQUIREMENTS FROM THE MECHANICAL DRAWINGS AND THE SPRINKLER CONTRACTOR AND INCLUDE FOR ALL REQUIRED CONNECTION TO THE FIRE ALARM PANEL.
7. TROUBLE FOR GENERATOR ALARM TO RESET AUTOMATICALLY AFTER THE GENERATOR GOES BACK TO AUTO AFTER RUNNING.
9. WHERE FIRE PROTECTION AND LIFE SAFETY SYSTEMS, AND SYSTEMS WITH FIRE PROTECTION AND LIFE SAFETY FUNCTIONS, ARE INTEGRATED WITH EACH OTHER, THE SYSTEMS SHALL BE TESTED AS A WHOLE IN ACCORDANCE WITH CAN/ULC-S1001. "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" TO VERIFY THAT THE SYSTEMS HAVE BEEN PROPERLY INTEGRATED. TESTING SHALL BE COMPLETED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO AND CERTIFIED BY ULC FOR PERFORMING THIS TYPE OF WORK. THE ELECTRICAL CONTRACTOR SHALL INCLUDE FOR THE COST OF THE ENGINEER AND THE COST FOR COORDINATING THE VARIOUS TRADES THAT WILL BE REQUIRED FOR THIS TESTING INCLUDING SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR, AND GENERATOR SUPPLIER. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE WHICH TRADES ARE REQUIRED ON SITE AND COORDINATE ALSO WITH THE GENERAL CONTRACTOR TO INCLUDE FOR THE COST OF THESE TRADES TO PARTICIPATE IN THIS TESTING.
10. PROVIDE CAN/ULC-S561 RATED DUAL FIRE ALARM MONITORING SYSTEM. SYSTEM SHALL BE A TYCO DSC MODEL NO. H532-512-TLHC OR APPROVED EQUIVALENT.
11. PROVIDE WEATHERPROOF HORN OUTSIDE AT COVERED PATIO.



1 FIRE ALARM PLAN

E7 SCALE: 1:75



2 FIRE ALARM RISER DIAGRAM - SIMPLIFIED

E7 SCALE: N.T.S.

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	60% DD Client Review	2020.03.16
2	60% DD Client Review Resubmit	2020.09.25
3	90% DD Client Review	2020.10.18
4	Final Coordination	2021.05.28
5	Pre-tender Response	2023.08.18
6	Permit Response	2024.02.15
7	100% Review Comments Response	2024.09.04
8	Issued For Permit	2025.10.09
9	Issued For Tender	2025.10.30

YORK REGION PRS #33

PROJECT :

CLIENT



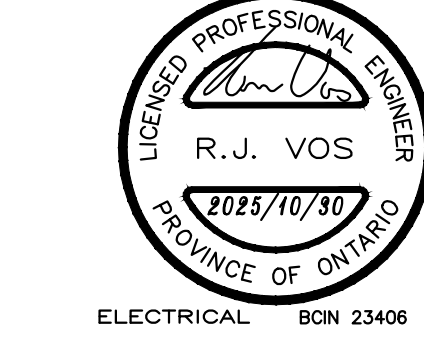
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ENGINEER



KIRKLAND ENGINEERING LTD.

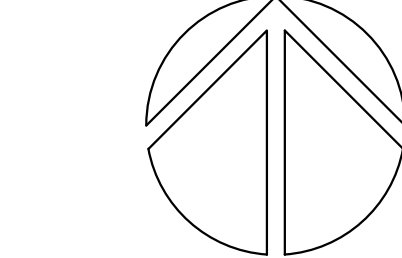
PROFESSIONAL SEAL



DWG TITLE

FIRE ALARM PLAN AND DETAILS

ORIENTATION



DATE JANUARY 2020

SCALE DRAWN BY KER

DWG STATUS : DESIGN

PROJECT No. 6467

DRAWING No. E7 REVISION

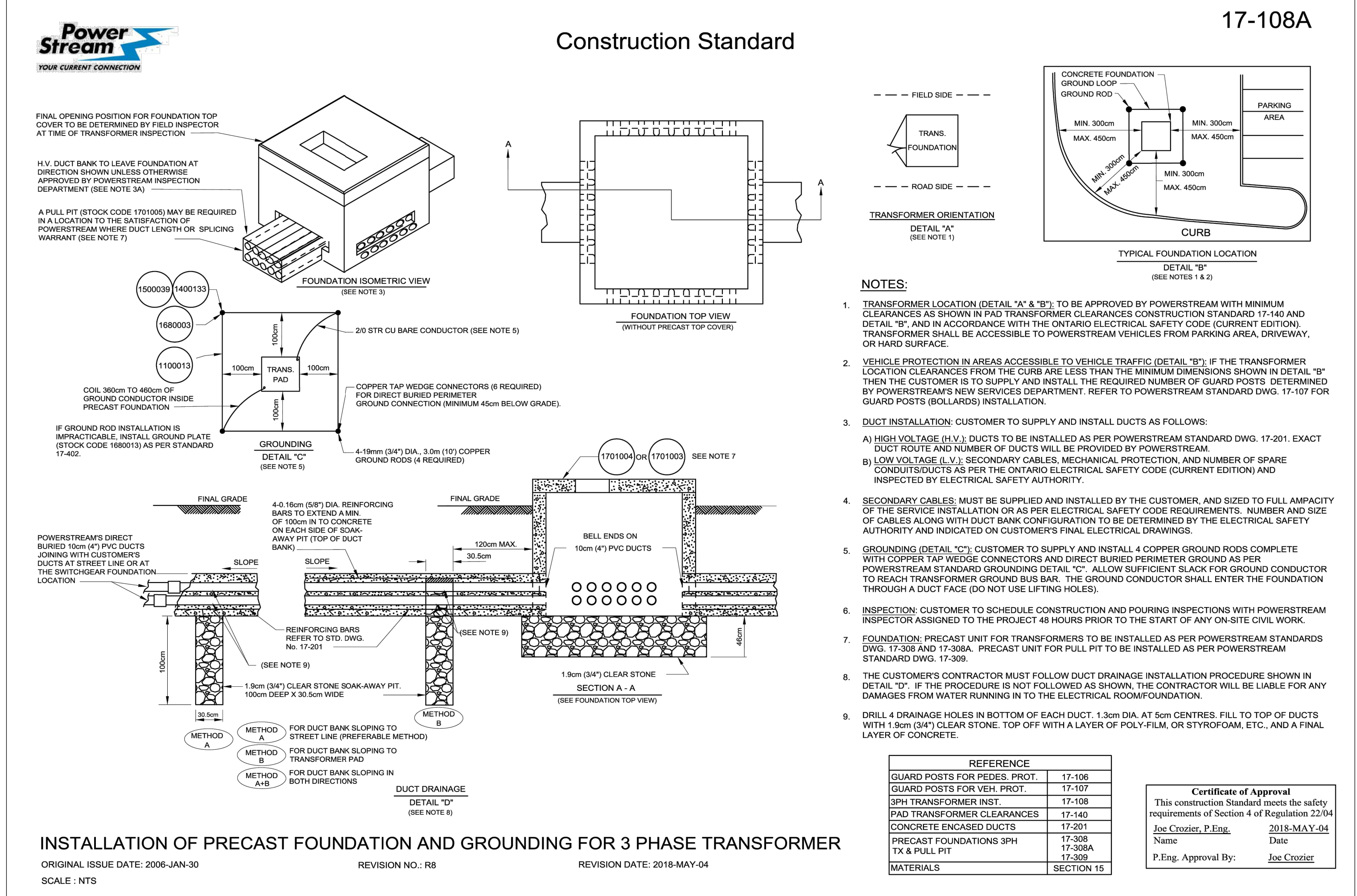
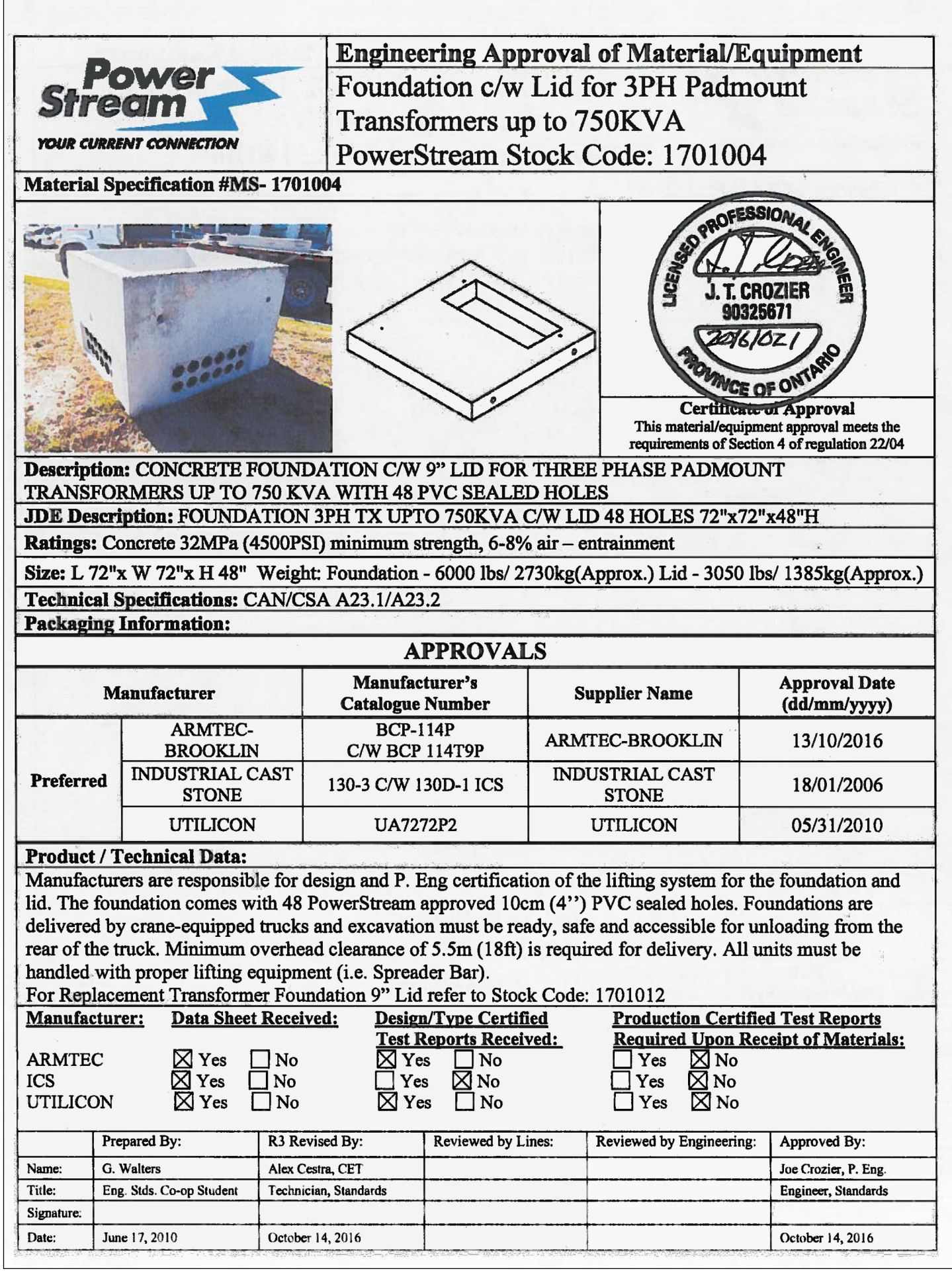
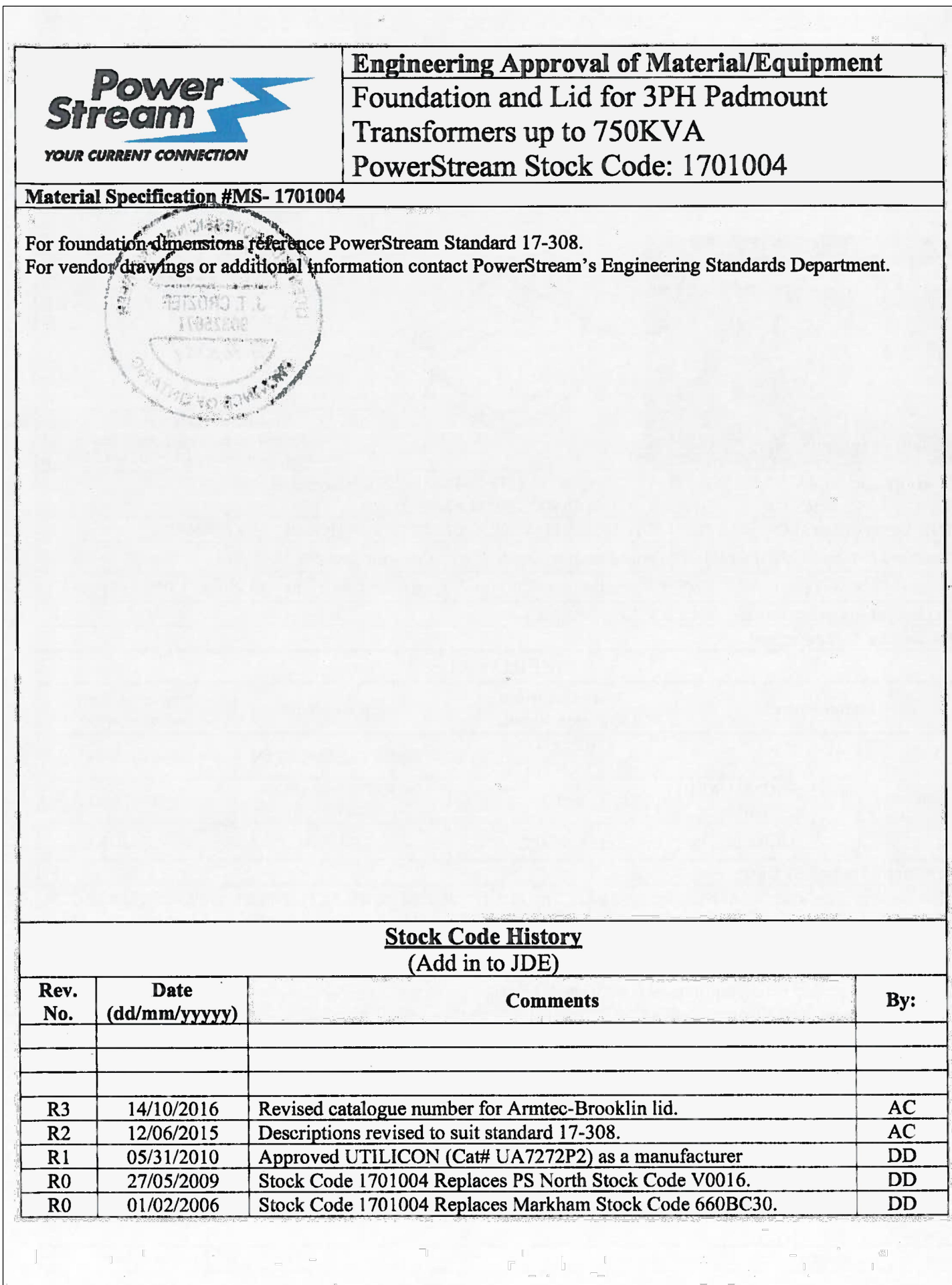
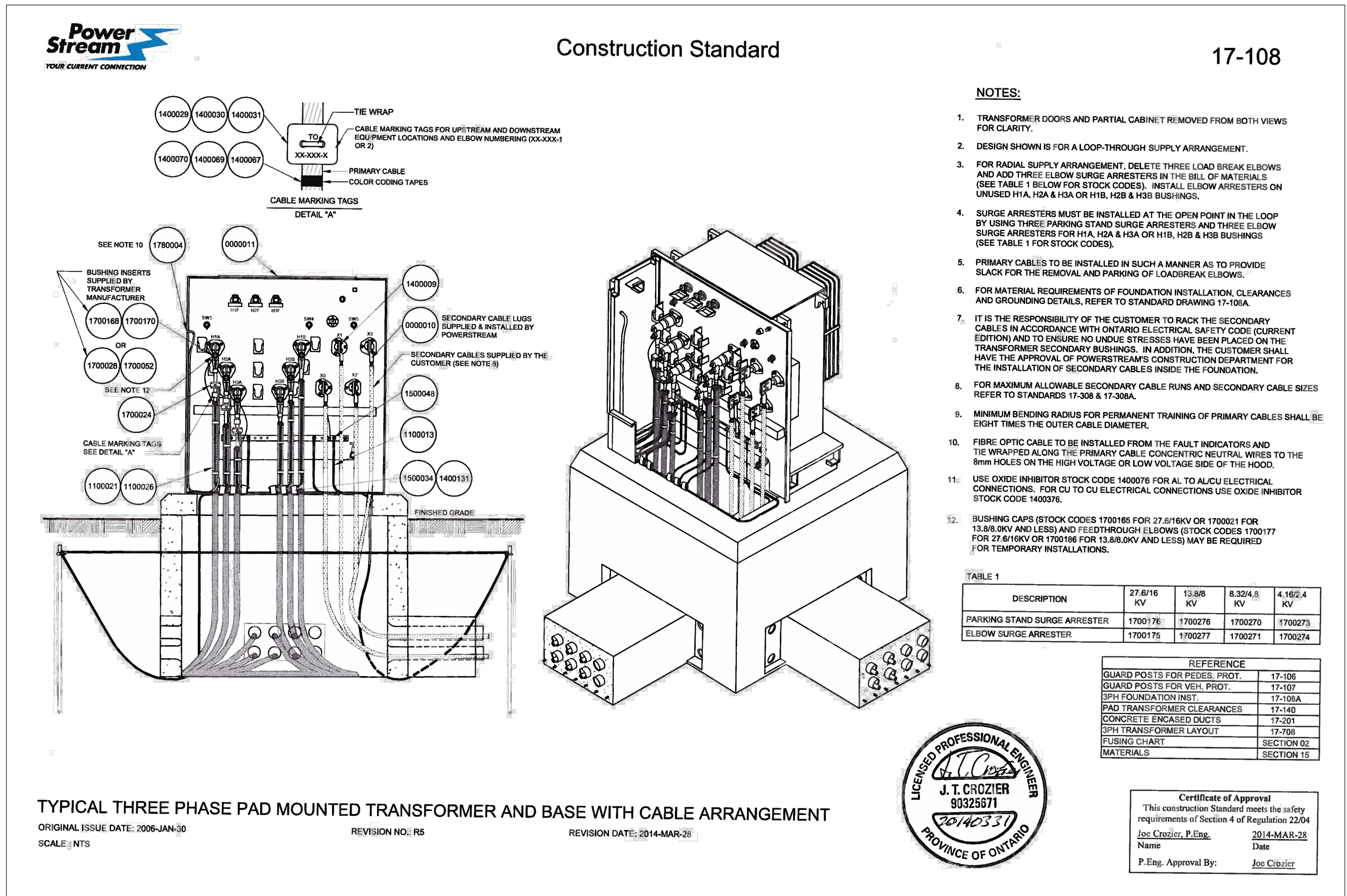
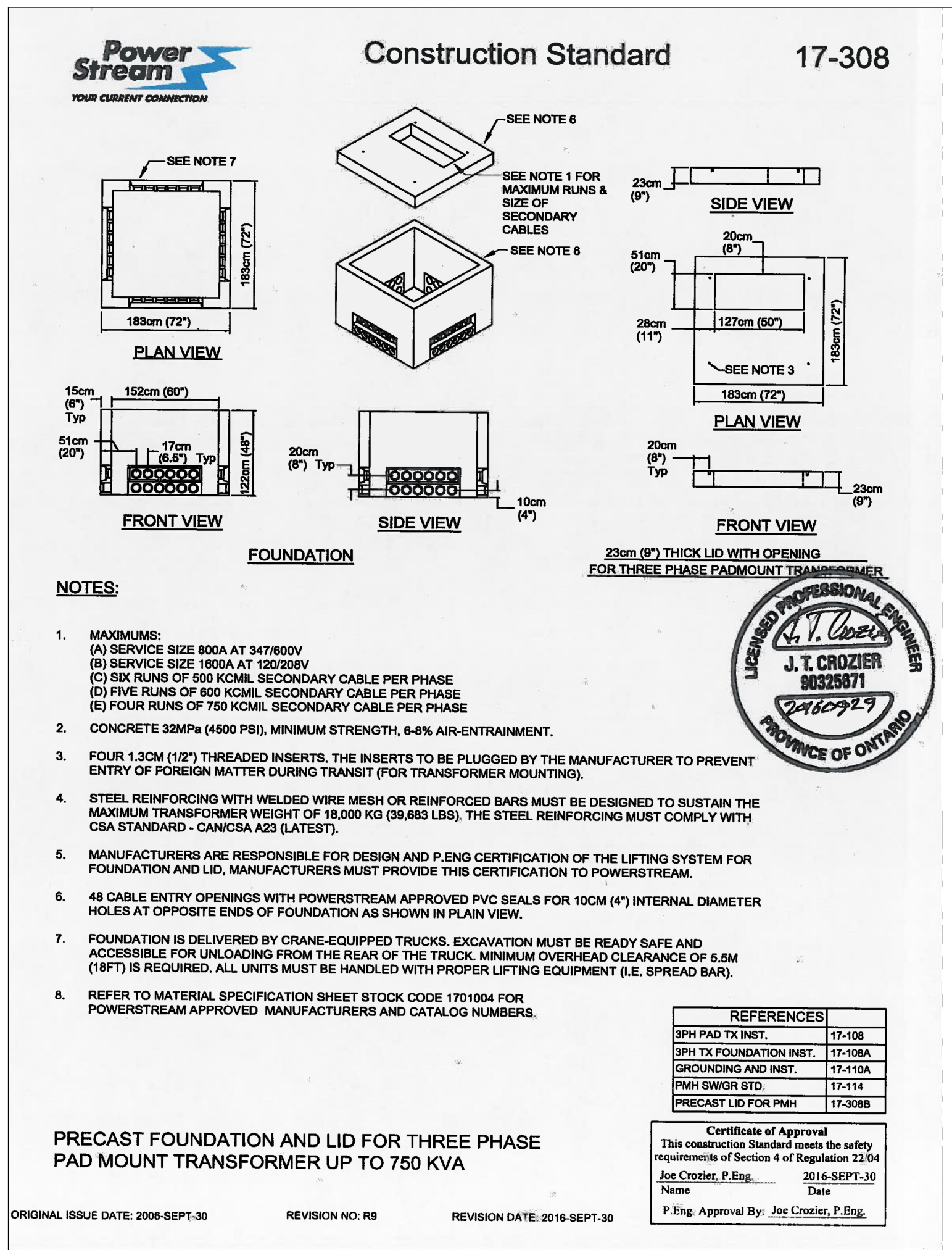












THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS REMAIN THE COPYRIGHT PROPERTY OF THOMAS BROWN ARCHITECT INC. AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	60% DD Client Review	2020.03.16
2	60% DD Client Review Resubmit	2020.09.25
3	90% DD Client Review	2020.10.18
4	Final Coordination	2021.05.28
5	Pre-tender Response	2023.06.18
6	Permit Response	2024.02.15
7	100% Review Comments Response	2024.09.04
8	Issued For Permit	2025.10.09
9	Issued For Tender	2025.10.30

PROJECT: YORK REGION PRS #33

CLIENT: YORK REGION

ENGINEER: KIRKLAND ENGINEERING LTD.

PROFESSIONAL SEAL: R.J. VOS

ELECTRICAL BON 23406

DWG TITLE: ELECTRICAL SITE PLAN DETAILS (ALECTRA)

ORIENTATION:

DATE: JANUARY 2020

SCALE: As indicated

DWG STATUS: DESIGN

PROJECT NO: 6467

DRAWING NO: E10

REVISION:





PowerStream Inc.

Construction Standard

17-201

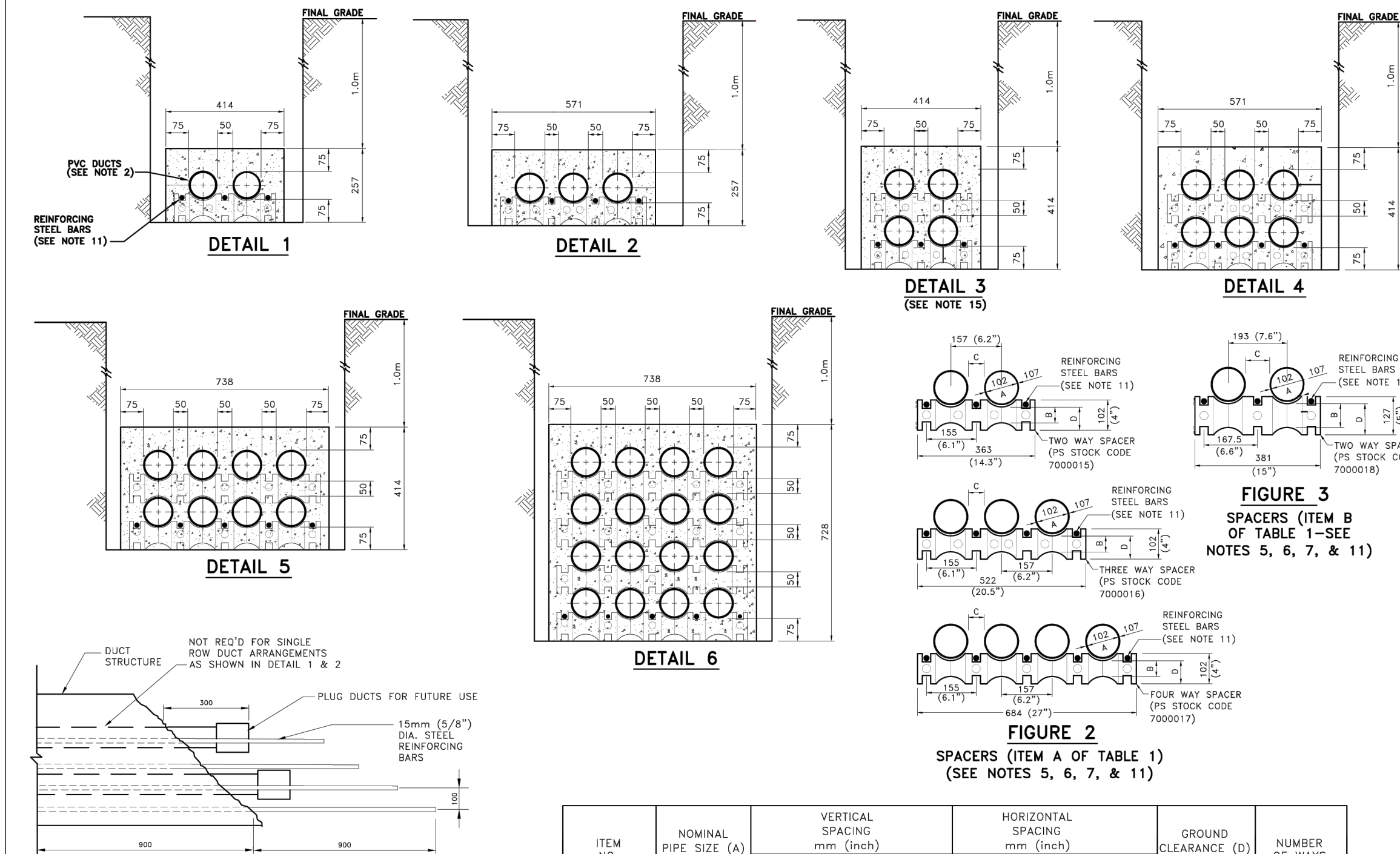


FIGURE 1  
TYPICAL STUB FOR FUTURE EXTENSION SEE (NOTE 14)

FIGURE 2  
SPACERS (ITEM A OF TABLE 1)  
(SEE NOTES 5, 6, 7, & 11)

FIGURE 3  
SPACERS (ITEM B  
OF TABLE 1-SEE  
NOTES 5, 6, 7, & 11)

ITEM NO.	NOMINAL PIPE SIZE (A) mm (inch)	VERTICAL SPACING mm (inch) BETWEEN END OF DUCTS (B) BETWEEN CENTRE OF DUCTS (C)	HORIZONTAL SPACING mm (inch) BETWEEN CENTRE OF DUCTS (C) BETWEEN CENTRE OF DUCTS (D)	GROUND CLEARANCE (D) mm (inch)	NUMBER OF WAYS
A (FIGURE 2)	102 (4")	51 (2")	157 (6.2")	51 (2")	2, 3 or 4
B (FIGURE 3)	102 (4")	76 (3")	182 (7.2")	86 (3.4")	193 (7.5")

TABLE 1  
ROYAL PIPE MONOBLOC  
SPACERS OR EQUIVALENT  
APPROVED BY POWERSTREAM  
(SEE NOTES 5, 6, 7, & 11)

Certificate of Approval  
This construction Standard meets the safety requirements of Section 4 of Regulation 22/04  
Joe Crozier, P.Eng. 2012-MAR-15  
Name Date  
P.Eng. Approval By: Joe Crozier

STANDARD ARRANGEMENT FOR CONCRETE ENCASED DUCTS IN AN UNDISTURBED AREA

ORIGINAL ISSUE DATE: 2006-MAR-30

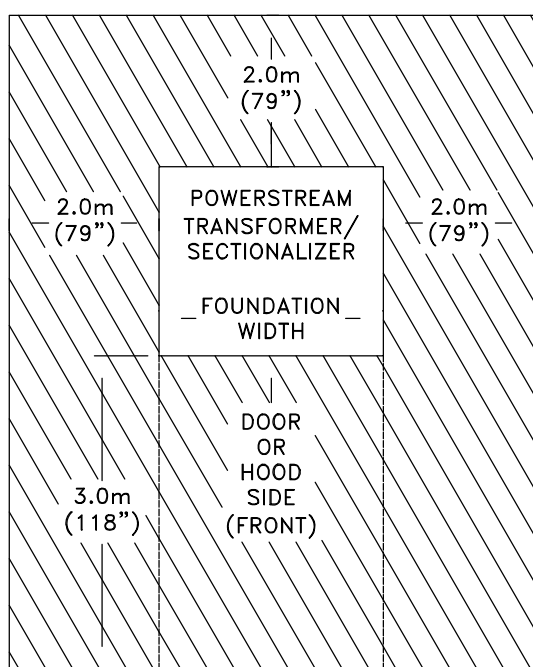
REVISION NO.: R2

REVISION DATE: 2012-MAR-15



Construction Standard

17-140



NOTES:

- FINAL GRADE WITHIN THE RESTRICTED OPERATIONAL CLEARANCE ZONE (SHOWN AS "HATCHED ZONES" ABOVE) MUST NOT BE ALTERED.
- HATCHED ZONES AROUND THE APPARATUS AND IN FRONT OF ACCESS DOORS/HOODS TO REMAIN CLEAR OF ALL SHRUBS AND TREES. WHEN THE APPARATUS IS POSITIONED WITHIN THE HATCHED ZONE, THE ZONE WITHIN OR ABOVE MUST REMAIN CLEAR OF, INCLUDING BUT NOT LIMITED TO, BUILDINGS, STRUCTURES, FENCES OR OBSTRUCTIONS INCLUDING ANY LANDSCAPING FEATURES.
- PREFERRED SURFACE COATING WITHIN THE HATCHED ZONES IS LAWN (SEED OR SOD) AND WITH PRIOR WRITTEN CONSENT OF POWERSTREAM GRAVEL AND/OR PAVED WITH ASPHALT OR PAVERS OR A CONCRETE FINISH MAY BE PERMITTED.
- ACCESS TO ALL EQUIPMENT DOORS/HOODS MUST REMAIN PERMANENTLY CLEAR OF ALL OBSTRUCTIONS.

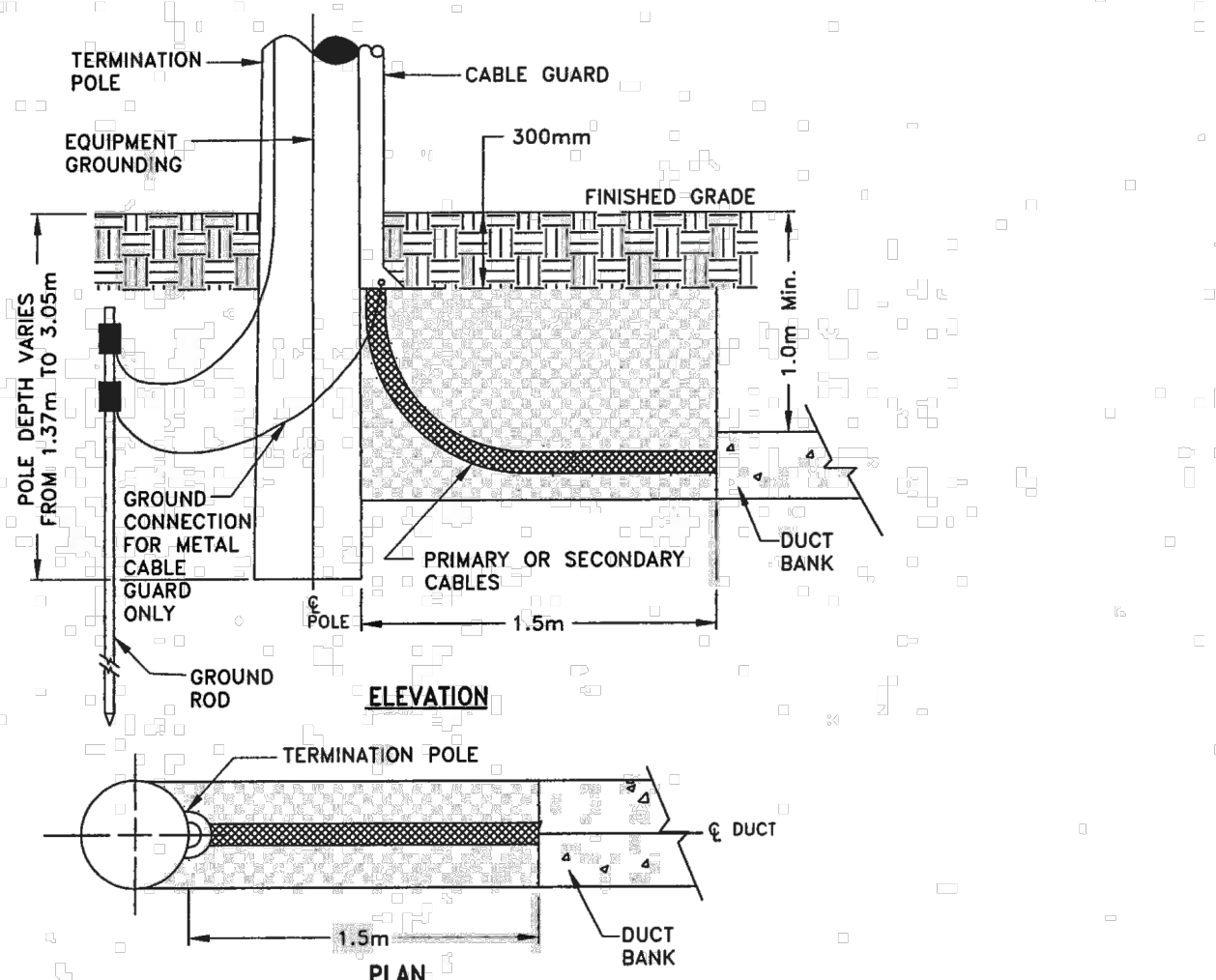
PADMOUNT TRANSFORMER/SECTIONALIZER CLEARANCES

ORIGINAL ISSUE DATE: 2007-JAN-25 REVISION NO: R2 REVISION DATE: 2011-JUN-23



Construction Standard

17-202



NOTES:

- EXCAVATION FOR CABLES AT POLE TO BE TAKEN TO BOTTOM OF DUCT BANK. BACKFILL WITH BRICK SAND.
- IF CUSTOMER SUPPLIES, INSTALLS, AND MAINTAINS PRIMARY OR SECONDARY CABLES AT THE TERMINATION POLE, IT MUST COMPLY WITH THE REQUIREMENTS OF ONTARIO ELECTRICAL SAFETY CODE (CURRENT EDITION). CONTACT POWERSTREAM NEW SERVICES DEPARTMENT FOR ANY ADDITIONAL REQUIREMENTS TO INSTALL THESE CABLES.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED.

POLE SETTING DEPTHS	02-501
POLE & FOOTINGS	SECTION 5
MATERIALS	SECTION 15
OVERHEAD FRAMING	SECTION 16-3
GROUNDING STANDARDS	SECTION 16-4
TERMINATION STANDARDS	SECTION 16-7
UNDERGROUND DIST. STANDARDS	SECTION 17
CONC. ENCASED DUCTS	17-201

DUCT BANK CLEARANCES AT TERMINATION POLE FOR POWERSTREAM PRIMARY OR SECONDARY CABLES

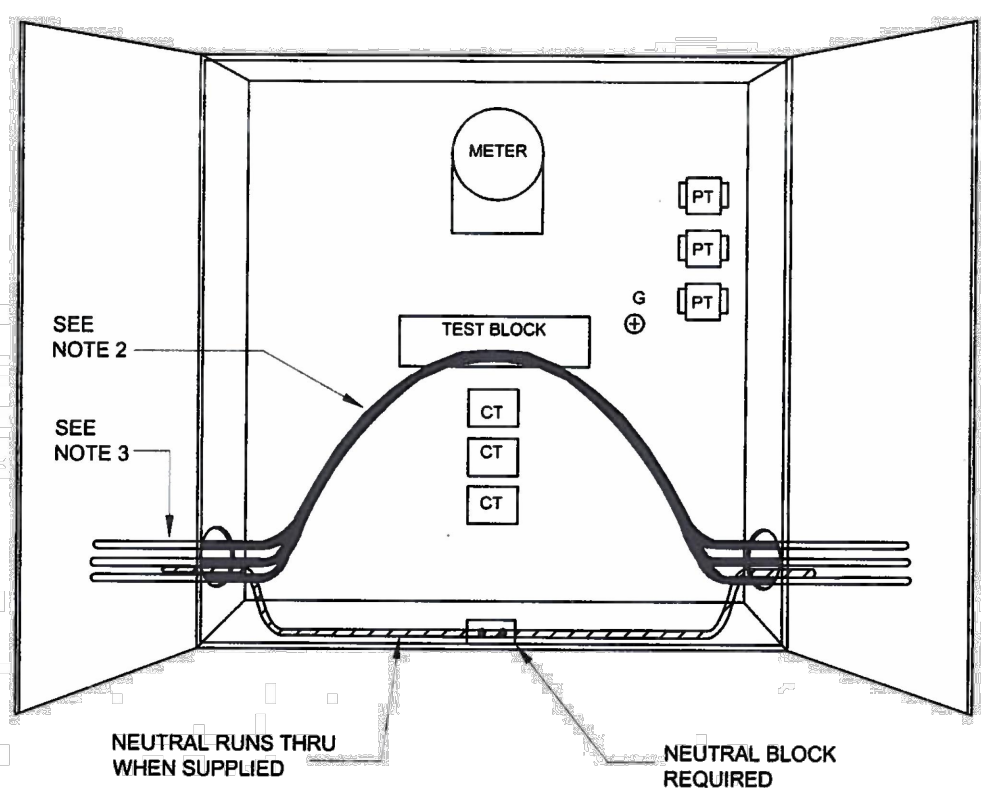
ORIGINAL ISSUE DATE: 2006-FEB-28 REVISION NO: R1 REVISION DATE: 2012-MAR-08

Certificate of Approval  
This construction Standard meets the safety requirements of Section 4 of Regulation 22/04  
Joe Crozier, P.Eng. 2012-MAR-08  
Name Date  
P.Eng. Approval By: Joe Crozier



Construction Standard

25-200



NOTES:

- THE METER CABINET SIZE SHALL BE 122cm(W) X 122cm(H) X 30.5cm(D). NO MORE THAN TWO CONDUCTORS MAXIMUM SIZE BEING 500 kcmil PER PHASE ARE ALLOWED FOR ALL SERVICES.
- SECONDARY CABLE TO BE LOOPED 1/2 WAY UP THE METER CABINET HEIGHT.
- LINE & LOAD ENTRY POINTS ARE RESTRICTED TO OPPOSITE ENDS OF THE METER CABINET. BOTTOM 1/3 OF CABINET ONLY.



METER CABINET INSTALLATION COMMERCIAL / INDUSTRIAL USE UP TO 600A AT 600/347V

ORIGINAL ISSUE DATE: 2007-JAN-29 REVISION NO: R2 REVISION DATE: 2013-NOV-12

METRIC	IMPERIAL (APPROX.)
122cm	4'-0"
30.5cm	1'-0"

Certificate of Approval  
This construction Standard meets the safety requirements of Section 4 of Regulation 22/04  
Joe Crozier, P.Eng. 2013-NOV-12  
Name Date  
P.Eng. Approval By: Joe Crozier, P.Eng.

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

ISSUE OR REVISION

NO.	ISSUED FOR	DATE
1	60% DD Client Review	2020.03.16
2	60% DD Client Review Resubmit	2020.09.25
3	90% DD Client Review	2020.10.18
4	Final Coordination	2021.05.28
5	Pre-tender Response	2023.08.18
6	Permit Response	2024.02.15
7	100% Review Comments Response	2024.09.04
8	Issued For Permit	2025.10.09
9	Issued For Tender	2025.10.30

YORK REGION PRS #33

2960 TESTON ROAD, VAUGHAN

PROJECT:

CLIENT



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

ENGINEER



570 Water Street  
Peterborough, Ontario  
K9H 3M8  
p. (705) 745-2831  
f. (705) 741-1526  
www.kirklandeng.com

KIRKLAND ENGINEERING LTD.

PROFESSIONAL SEAL



ELECTRICAL BCIN 23406

DWG TITLE

ELECTRICAL SITE PLAN DETAILS (ALECTRA)

ORIENTATION

DATE

JANUARY 2020

SCALE

As indicated

DRAWN BY

KER

DWG STATUS:

DESIGN

PROJECT NO.

6467

DRAWING NO.

E11

REVISION



**PowerStream**  
YOUR CURRENT CONNECTION

# Construction Standard

# 17-106

## NOTES:

1. CUSTOMER TO SUPPLY AND INSTALL GUARD POSTS AND GUARD RAIL WHEN REQUIRED FOR PHYSICAL PROTECTION IN PEDESTRIAN AREA WHERE FINISHED GRADE AROUND THE EQUIPMENT IS HIGHER. GUARD POSTS WITH GUARD RAIL INSTALLATION TO BE APPROVED BY POWERSTREAM'S NEW SERVICE DEPARTMENT.
2. GUARD POSTS TO BE PLACED ON EACH CORNER AT 200cm (79") FROM FOUNDATION. DOOR/HOOD SIDE OF THE EQUIPMENT SHALL FACE THE CURB SIDE OF THE ROAD/DRIVEWAY.
3. THE GUARD POST (POWERSTREAM STOCK CODE 1700320) SHALL BE 15cm (6") DIAMETER X 244cm (96") LONG X 0.76cm (3") THICK WELDED SEAM GALVANIZED STEEL PIPE (MINIMUM GAUGE SCHEDULE 40).
4. THE GUARD RAILS SHALL BE 10cm (4") IN DIAMETER WELDED SEAM GALVANIZED STEEL PIPE AND SHALL BE WELDED TO GUARD POSTS.
5. DIG 45cm (14") DIAMETER X 137cm (54") DEEP HOLE IN GROUND AND POUR 20MPa (2900 PSI) CONCRETE AROUND THE GUARD POST KEEPING 15cm (6") BELOW THE GUARD POST AS A BASE.
6. GUARD POSTS SHALL BE FILLED WITH 20MPa (2900 PSI) CONCRETE WITH THE TOP ROUNDED.
7. GUARD POSTS SHALL BE PAINTED WITH SAFETY-YELLOW (OSHA APPROVED) PAINT. FOR PROPER ADHESION OF PAINT, GUARD POSTS MUST BE CLEANED (FREE FROM DIRT, GREASE/OIL AND EXHAUST FUMES) AND PRIMED PRIOR TO PAINTING. PRETREATMENT PRIMER MUST BE COMPATIBLE WITH GALVANIZED COATING, SUCH AS MODIFIED ACRYLIC WATER WATER-BORNE PRIMERS.

CONVERSION TABLE	
METRIC	IMPERIAL (APPROX.)
200cm	6'-7"
122cm	4'-0"
100cm	3'-4"
61cm	2'-0"
15cm	0'-6"
10cm	0'-4"

## REFERENCES

1PH PAD TX INST.	17-101
1PH TX FOUNDATION	17-101A
GUARD POST INST.	17-107
VEHICLE PROTECTION	17-107B
3PH PAD TX INST.	17-108
3PH TX FOUNDATION	17-108A

## Certificate of Approval

This construction Standard meets the safety requirements of Section 4 of Regulation 22/04

Joc Crozier, P.Eng. 2012-FEB-23

Name Date

P.Eng. Approval By: Joc Crozier

## GUARD RAIL & POSTS (BOLLARDS) INSTALLATION FOR PHYSICAL PROTECTION IN PEDESTRIAN AREAS

ORIGINAL ISSUE DATE: 2008-FEB-28 REVISION NO: R3 REVISION DATE: 2012-FEB-23

**Power Stream**  
YOUR CURRENT CONNECTION

# Construction Standard 17-107A

METRIC	IMPERIAL (APPROX.)
15cm	6"-4"
27cm	0'-11"
50cm	1'-0"
50cm	1'-8"
70cm	2'-4"
100cm	3'-3"
110cm	3'-7"
120cm	3'-11"
122cm	4'-0"
200cm	6'-7"

**NOTES:**

- CUSTOMER IS TO SUPPLY AND INSTALL GUARD POSTS (BOLLARDS) IF THE EQUIPMENT IS LESS THAN 300cm (120") FROM THE TRAVELED AREA OR ANYWHERE POWERSTREAM DEEMS NECESSARY.
- NUMBER OF GUARD POSTS AND LOCATIONS ABOVE ARE EXAMPLES ONLY. ACTUAL LOCATIONS TO BE DETERMINED BY POWERSTREAM ENGINEERING TECHNICIAN AND MODIFICATIONS CAN BE MADE BY POWERSTREAM INSPECTORS, WITH THE APPROVAL OF ENGINEERING TECHNICIAN, IN THE FIELD WITH THE FOLLOWING CRITERIA:
  - GUARD POST INSTALLATIONS SHALL ALLOW EQUIPMENT DOORS TO BE OPENED THROUGH THEIR FULL RANGE. GUARD POSTS ON THE DOOR SIDE MUST BE PLACED EVEN WITH THE EDGE OF THE VAULT.
  - GUARD POST INSTALLATIONS SHALL ALLOW POWERSTREAM PERSONNEL UNIMPEDED ACCESS TO THE EQUIPMENT.
- THE GUARD POSTS SHALL BE INSTALLED A MINIMUM OF 70cm (27.5") FROM THE VAULT.
- GUARD POSTS INSIDE GROUNDING GRID MUST BE BONDED TO THE GROUND GRID USING AN APPROVED MECHANICAL CONNECTOR OR A COLDWELD CONNECTION AND 2/0 CU BARE GROUND CONDUCTOR. TO AVOID POSSIBLE DAMAGE TO THE GROUND GRID THE BOLLARDS MUST BE INSTALLED BEFORE OR AT THE SAME TIME OF THE GROUNDING GRID.
- INSTALL GUARD POSTS AT THE CORNERS FIRST, THEN INSTALL THE INTERMEDIATE GUARD POSTS. DISTANCE BETWEEN TWO GUARD POSTS MUST BE MAXIMUM OF 200cm (79").
- POWERSTREAM APPROVED GUARD POST SHALL BE 15cm (6") DIAMETER X 244cm (96") LONG 0.076cm (3") THICK GALVANIZED STEEL PIPE (MINIMUM GAUGE SCHEDULE 40) COVERED WITH A 15cm (7") DIAMETER X 152cm (60") LONG HIGH DENSITY POLYETHYLENE (HDPE) RESIN PIPE COVER.
- DE 45cm (14") DIAMETER X 187cm (74") DEEP HOLE IN GROUND AND 110cm (42") OF 20mpa (2800 PSI) CONCRETE AROUND THE GUARD POST KEEPING 15cm (4") BELOW THE GUARD POST AS A BASE. FILL THE REMAINING 27cm (11") AROUND THE GUARD POST WITH FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- STEEL GUARD POST SHALL BE FILLED WITH 20mpa (2800 PSI) CONCRETE WITH THE TOP ROUNDED. TWO FOAM SPACER STRIPS ARE REQUIRED TO BE PLACED ACROSS THE TOP BETWEEN THE STEEL GUARD POST AND THE HOPE COVER.
- BOLLARDS, GROUNDING GRIDS, AND VAULTS MUST BE INSPECTED BY POWERSTREAM INSPECTIONS DEPARTMENT PRIOR TO THE ENERGIZATION TO THE TRANSFORMER POWERSTREAM INSPECTIONS DEPARTMENT MUST BE CONTACTED 48HOURS PRIOR TO AN INSPECTION.
- ALL DIMENSIONS ARE IN CENTIMETERS.

## Certificate of Approval

This construction Standard meets the safety requirements of Section 4 of Regulation 22-04



Joe Crozier, P.Eng. 2012-FEB-06



Name Date

P.Eng. Approval By: Joe Crozier

GUARD POSTS (BOLLARDS) INSTALLATION  
EQUIPMENT PROTECTION 3Ø TX.  
UP TO 1500KV (NON RESIDENTIAL)

ORIGINAL ISSUE DATE: 2012-FEB-06 REVISION NO: 0 REVISION DATE:

 <p><b>PowerStream</b> YOUR CURRENT CONNECTION</p>	<b>Engineering Approval of Material/Equipment</b> Guard Post – Steel Pipe, Welded Seam PowerStream Stock Code: 1700320			
Material Specification #MS- 1700320				
	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>Certificate of Approval</b>          This material/equipment approval meets the requirements of Section 4 of regulation 22/04       </div>			
<b>Description:</b> GUARD POST WELDED SEAM STEEL PIPE <b>JDE Description:</b> GUARD POST 6"DX96"H STEEL PIPE SCHEDULE #40 WELDED SEAM GALV <b>Ratings:</b> WELDED SEAM GALVANIZED STEEL PIPE SCHEDULE #40 <b>Size:</b> DIAMETER 6" (152.4mm), HEIGHT 96" (2438.4mm) <b>Technical Specifications:</b> ASTM A53 <b>Packaging Information:</b>				
<b>APPROVALS</b>				
<b>Manufacturer</b>	<b>Manufacturer's Catalogue Number</b>	<b>Supplier Name</b>	<b>Approval Date (dd/mm/yyyy)</b>	<b>Web link</b>
Preferred CHANNEL INDUSTRIAL GROUP	6" DIA BOLLARD	CHANNEL INDUSTRIAL GROUP	08/10/2010	<a href="http://www.channelind.com">www.channelind.com</a>
<b>Product / Technical Data:</b> PowerStream approved Guard Post is 15cm (6") diameter x 244cm (96") long 0.76cm (1/3") thick welded seam galvanized steel pipe (minimum gauge schedule 40).  Guard Posts may be used in the protection of PowerStream equipment from vehicle traffic or for pedestrian protection.  Guard Posts that are used for protecting equipment are to be covered with PowerStream approved Guard Post Covers stock code 1700321.  Guard Posts that are used for pedestrian protection without the cover are to be painted with safety-yellow (OSHA approved) paint. For proper adhesion of paint, Guard Posts must be cleaned (free from dirt, grease/oil and exhaust fumes) and primed prior to painting. Pretreatment primer must be compatible with galvanized coating, such as modified acrylic water borne-borne primers.				
<b>Manufacturer:</b>	<b>Data Sheet Received:</b>	<b>Design/Type Certified Test Reports Received:</b>	<b>Production Certified Test Reports Required Upon Receipt of Materials:</b>	
Post Guard <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Prepared By:	R1 Revised By:	Reviewed by Lines:	Reviewed by Engineering:	Approved By:
Name: A. Doucet	A. Cestra			Joe Crozier, P. Eng.
Title: Eng. Sids. Coop Student	Technician, Standards			Standards Engineer
Signature:				
Date: November 30, 2010	October 27, 2011			October 27, 2011

	
<p style="font-size: 0.8em;">THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.</p>	
<p><b>ENGINEER</b></p> <div style="font-size: 4em; font-weight: bold; margin-top: 10px;">K</div>	<p>570 Water Street Peterborough, Ontario K9H 3M8</p> <p>p. (705) 745-2831 f. (705) 741-1526 <a href="http://www.kirklandeng.com">www.kirklandeng.com</a></p>
<p><b>KIRKLAND ENGINEERING LT</b></p>	
<p>PROFESSIONAL SEAL</p> <div style="text-align: center;">  </div>	
<p>ELECTRICAL      BDN 23406</p>	
<p>DWG TITLE</p>	
<p style="font-size: 1.5em; text-align: center;">ELECTRICAL SITE PLAN DETAILS (ALECTRA)</p>	
<p>ORIENTATION</p>	
<p>DATE</p>	
<p style="font-size: 1.5em; text-align: center;">JANUARY 2020</p>	
<p>SCALE</p>	<p>DRAWN BY</p>
<p style="font-size: 1.5em; text-align: center;">As indicated      KER</p>	
<p>DWG STATUS :</p>	
<p style="font-size: 2em; text-align: center;">DESIGN</p>	
<p>PROJECT No.</p>	
<p style="font-size: 2em; text-align: center;">6467</p>	
<p>DRAWING No.</p>	<p>REVISION</p>
<p style="font-size: 3em; text-align: center;">E12</p>	



EROSION AND SEDIMENT CONTROL MEASURES

CONSTRUCT "MUD-MAT" AS INDICATED AND MAINTAIN UNTIL SITE IS STABILIZED.  
MUD TRACKED ONTO EXISTING ROADWAYS FROM THE SITE IS TO BE REMOVED ON A DAILY BASIS.  
CONSTRUCT AND MAINTAIN SILT FENCING UNTIL SITE IS STABILIZED.  
PREVENT EROSION OF MATERIAL STOCKPILES.  
DURING WORK STOPPAGES OR INCLEMENT WEATHER, PLUG ENDS OF OPEN SEWERS TO PREVENT DOWNSTREAM SEDIMENTATION.

WATER SERVICE DECOMMISSIONING

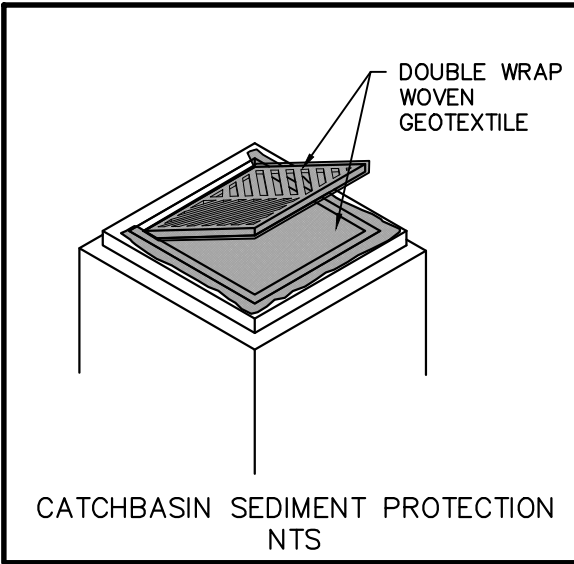
WATER SERVICE CONNECTION TO BE DECOMMISSIONED BY PLUGGING THE WATERMAIN SERVICE AT THE MAIN, REMOVING THE VALVE BOX EXTENSIONS, BACKFILLING & SURFACE RESTORATION

EROSION AND SEDIMENT CONTROL

- 1.CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED.
- 2.ALL SILT FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.
- 3.EROSION CONTROL FENCING TO BE INSTALLED AROUND BASE OF ALL STOCKPILES
- 4.EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MANHOLE AND CATCHBASINS
- 5.ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.
- 6.EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.
- 7.NO ALTERNATIVE METHODS OR EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER
- 8.CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENT RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.
9. CONTRACTOR MUST REMOVE EROSION AND SEDIMENTATION FENCING PRIOR TO COMPLETION OF PROJECT. CONTRACTOR TO HAVE EROSION AND SEDIMENTATION FENCE INSPECTED WHEN VEGETATION HAS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.

MAINTENANCE RECOMMENDATIONS

- 1.EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE FENCE.
- 2.OWNERS REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO CITY REQUIREMENTS.



NOTES:

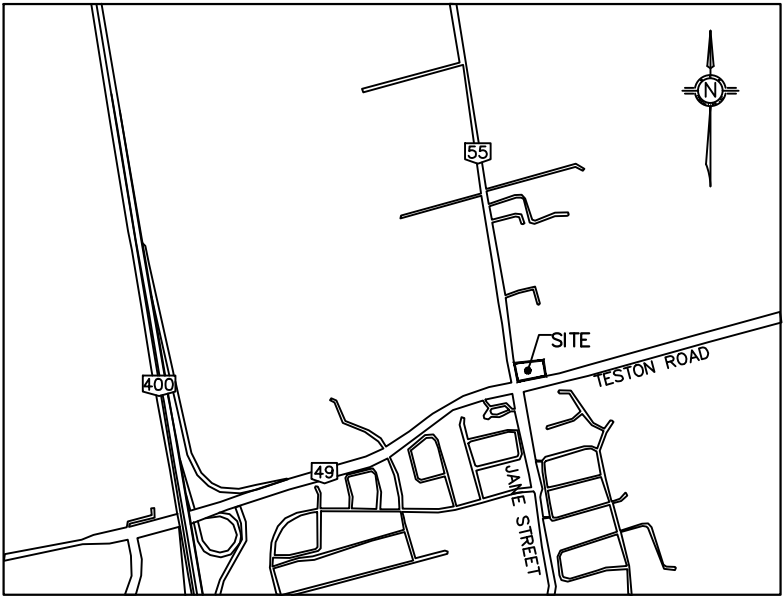
1. TO BE INSTALLED ON ALL CATCHBASINS AND MAINTAINED BETWEEN APRIL AND DECEMBER. REMOVE FOR WINTER SEASON.
2. WOVEN GEOTEXTILE TO HAVE EQUIVALENT OPENING SIZE BETWEEN 0.15mm AND 0.25mm.
3. WOVEN GEOTEXTILE TO BE REPLACED PERIODICALLY WHEN ACCUMULATED SEDIMENTS INTERFERES WITH DRAINAGE.

NOTE:

CONTRACTOR TO CONTACT MGM CONSULTING INC. IMMEDIATELY SHOULD THERE BE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND PROPOSED GRADING AND/OR SERVING DESIGN, OR CONFLICTS IN CONSTRUCTING THE WORK AS PER THE INTENT OF THE APPROVED DESIGN PRIOR TO CONSTRUCTION.

NOTE:

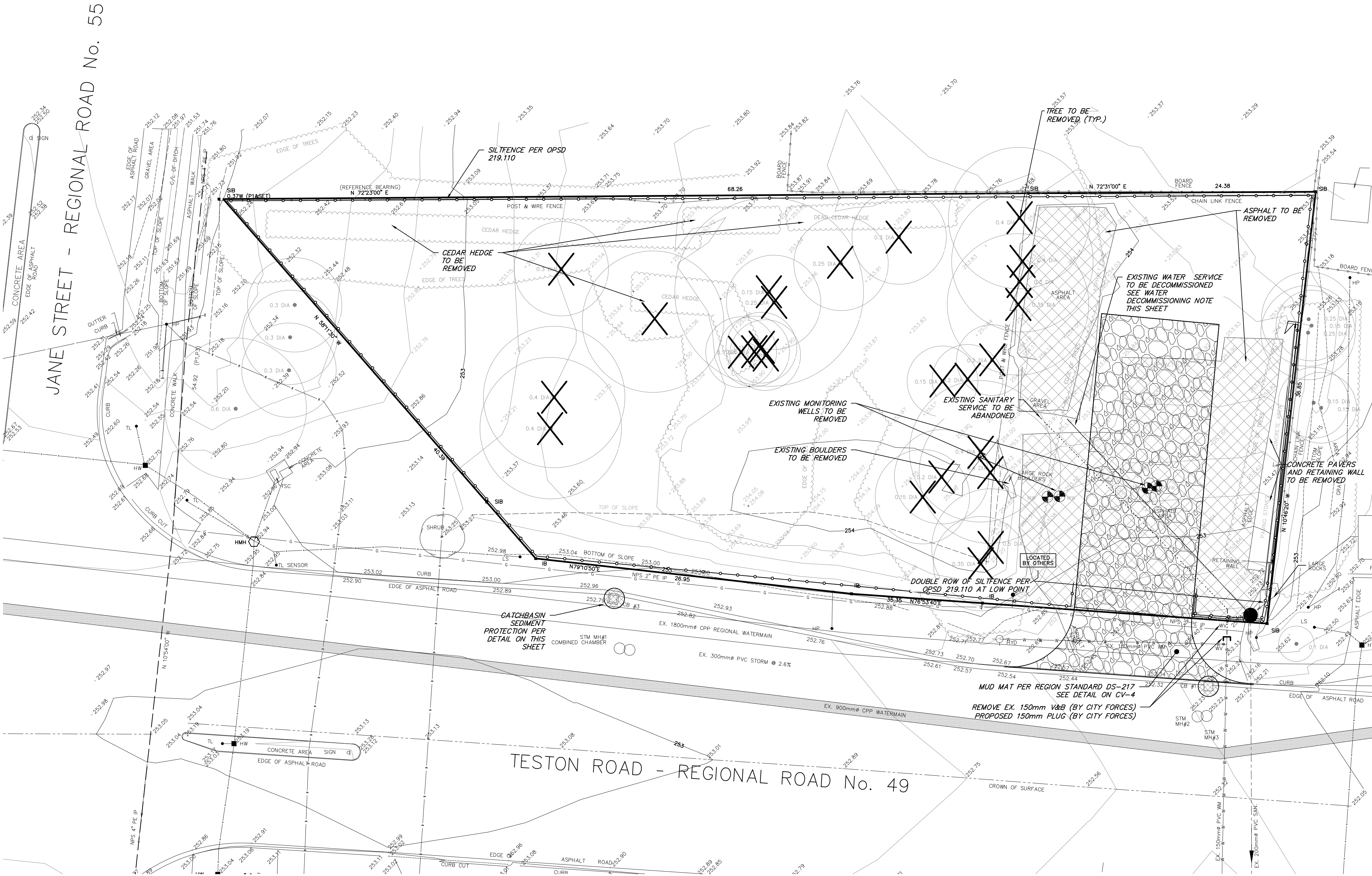
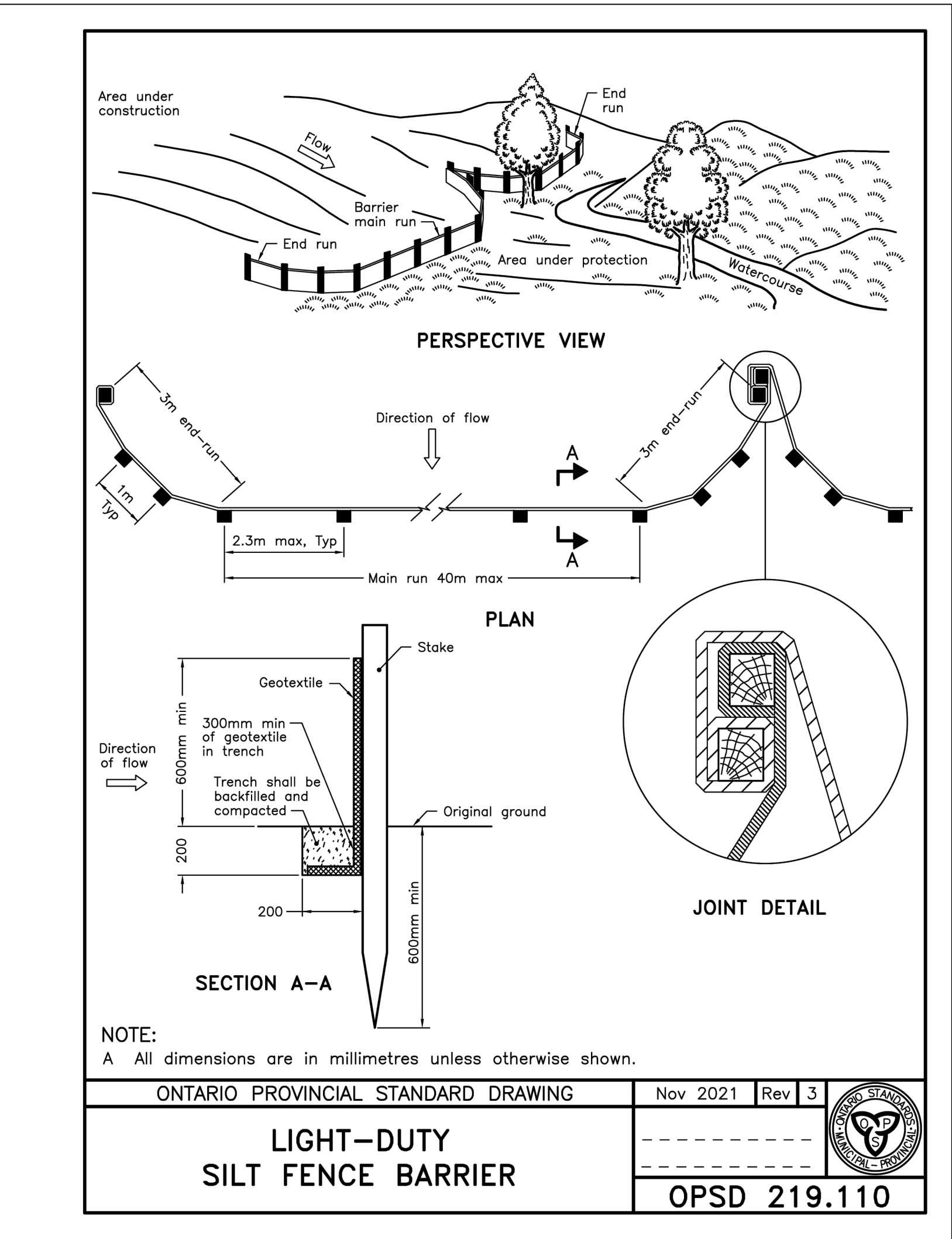
1. ALL WORK TO CONFORM TO THE LATEST MUNICIPAL STANDARDS AND SPECIFICATIONS AS WELL AS THE LATEST ADOPTED ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
2. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER TO SATISFACTION OF THE MUNICIPALITY AND MGM CONSULTING INC.
3. CONTRACTOR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



KEY MAP  
NTS

BENCHMARK

ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETTIC DATUM(COVD-28.78) AND ARE DERIVED FROM THE CITY OF VAUGHAN BENCH MARK No. 34-9 HAVING A PUBLISHED ELEVATION OF 234.384 METRES  
TOPOGRAHICAL SURVEY PROVIDED BY J.D. BARNES LIMITED, DATED AUG.23, 2019 REFERENCE # 19-21-356-00



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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	SPA	2020.07.29
2	SPA	2023.10.13
3	SPA	2024.03.19
4	SPA	2024.06.26
5	TENDER	2025.05.08

PROJECT:

# YORK REGION PRS STATION #33

2960 TESTON ROAD, VAUGHAN ONTARIO



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

ARCHITECT  
**THOMASBROWN ARCHITECTS**

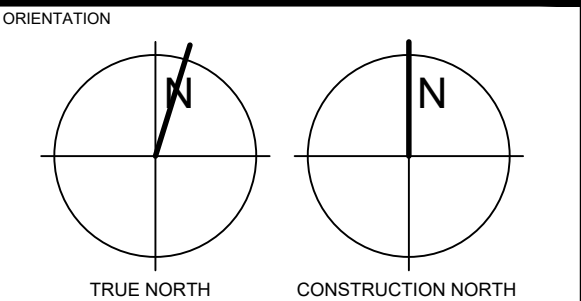
A 197 SPADINA AVE., SUITE 500, TORONTO, ON  
T: 416-384-5710 EXT 101  
W: WWW.TBROWARCH.COM

**MGM CONSULTING INC**  
Consulting Engineering & Project Management  
400 Bronte Street South, Suite 201  
Milton, Ontario L9T 0H7  
Tel: (905) 887-8678  
Fax: (905) 875-1339  
Email: mrg@mgm-inc.ca  
www.mgm-inc.ca



**REMOVALS AND EROSION & SEDIMENT CONTROL PLAN**

CITY FILE # DA 20.037



2020.07.29	
SCALE: 1:200	DRAWN BY: BN
DWG STATUS: -	
PROJECT No: 2020-030	
DRAWING NUMBER: CV-1	REVISION: 5

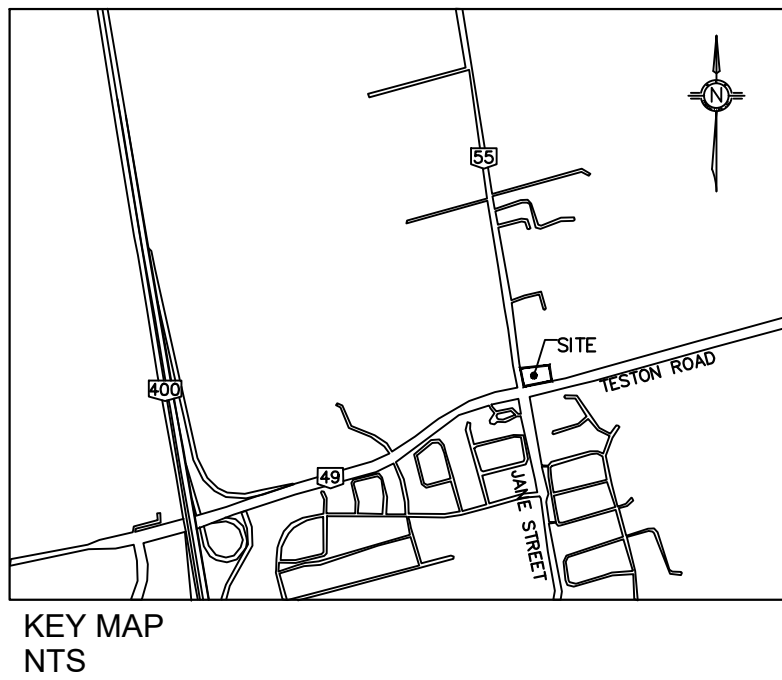
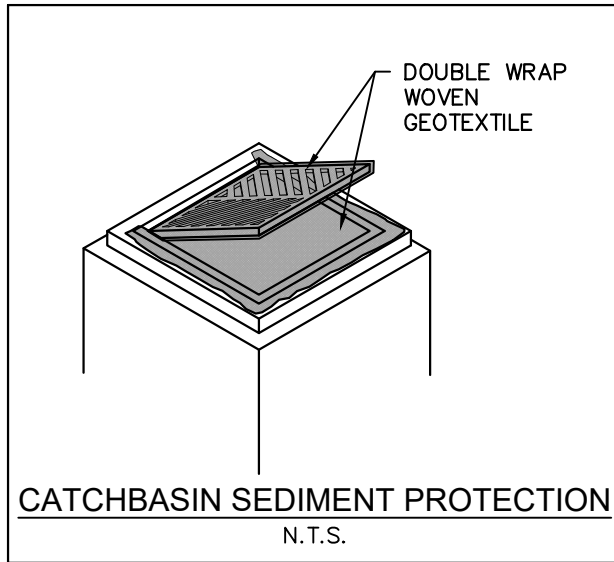


- Standard of
- All construction
- The Owner's
- inspection by
- Department
- The Owner's
- condition on
- The location
- of the water
- utilities in the
- the location
- and the
- such utility
- restoration
- •
- Appropriate
- not more than
- per City of St.
- retaining wall
- Engineering
- Landscaping
- be altered.
- Slopes in local
- Grassed
- Outside light
- Overgrown
- Silt fence to
- (to prevent a
- and
- Construction
- crushed stone
- traffic to the
- line.
- SEWER &
- Sanitary and
- and materials
- approved or
- sealed cover
- All catchbasin
- and
- or approved
- Watermain
- and
- hydrants
- noted from
- from all obstructions
- constructed
- W-10 and
- The City of
- in the City of
- Construction
- which includes
- participating
- Approval

- Standard Drawings of the City of Vaughan constitute part of these drawings.)
- All construction work to be carried out in accordance with the requirements of the Ontario Building Code (OBC) and the City of Vaughan's Engineering Department.
- The Owner shall retain the services of his consultants to ensure required inspection reports and/or certification requirements are submitted to the City of Vaughan's Engineering Department.
- The Owner and/or his representative shall rectify all disturbed areas to original condition and to the satisfaction of the City of Vaughan's Engineering Department.
- The location of all underground ground utilities and structures is approximate only and where shown on the drawing(s) the accuracy of the location of such utilities and structures is not warranted. The Owner shall be responsible for the location of all such utilities and structures by consulting the appropriate utilities and/or companies concerned.
- The Owner shall be responsible for obtaining all liability for damage to existing structures and structures adjacent to the site.
- Restoration or adjustment for the same.
- All structures shall be certified at the Owner's expense.
- Appropriate contribution details should be provided for retaining walls higher than 1 m. Details shall be designed and certified by a Professional Engineer (PE) registered in the Province of Ontario.
- Retaining walls shall be constructed in accordance with the Ontario Building Code per City Standard Drawing FRW-100 (or approved equal). Upon completion, retaining walls greater than 1 m to be certified by a structural and geotechnical engineer.
- Landscaping work shall not encroach on boulevard nor shall boulevard grades be altered.
- Slopes in landscaped areas and on berms shall not exceed 3 horizontal to 1 vertical.
- Slopes in landscaped areas shall be: min. 2% max. 5%.
- Outside lighting shall be designed and installed and designed to maintain zero (0) light level disturbance at the property line.
- All lighting and electrical equipment shall be installed and maintained to prevent self lighting onto adjacent lands until the completion of sodding and seeding.
- Construction access shall be constructed with a minimum depth of 450 mm concrete alone base from the municipal curb or edge of pavement to the property line.
- All proposed barrier-free parking spaces shall include "B-30 BY PERMIT ONLY" traffic sign and barrier-free pavement symbol marking.
- C-30 BY PERMIT ONLY
- Sanitary and storm control/maintenance holes shall be in accordance with all applicable OBC details. Frame and cover shall be OPGSD 400 101 Type or approved equal. If maintenance holes shall be finished to bottom (top) of pipes.
- All sanitary maintenance hole covers in the parking areas to be water tight.
- All catchbasins shall be installed in accordance with City Standard Drawing S-100 (or approved equal).
- All manholes and manholes and grates shall be OPGSD 400 C-103, W-103, W-100 and related Standard Drawings.
- Watermain shall have a minimum vertical separation of 0.5 m and horizontal separation of 0.5 m between any sewer or maintenance hole and water main, whether any.
- Hydrants to be installed as per City Standard W-164 with 1 m minimum clear zone.
- All industrial/commercial/residential watermain connections shall be installed in accordance with City Standard Drawings C-102, C-103, W-103, W-100 and related Standard Drawings.
- Sanitary, storm and water service connections should not be in place on the property line.
- The City of Vaughan's Engineering Department will be arranged for installation by the City on payment of installation costs by the Owner. To initiate the installation of the service connection, the Owner shall file an application with the City of Vaughan's Engineering Department.
- The City of Vaughan's Engineering Department will provide a plan of approval which includes 7 copies of the approved site plan servicing and grading drawing(s) and 1 copy of the approved site plan showing the location of the Region of Durham's watermain.
- The City of Vaughan's Engineering Department will provide a plan of approval showing the City's proposed site plan servicing and grading drawing(s).

- Entrance driver of the municipalities on drawing(s)
  - 50 mm compact
  - 75 mm compact
  - 100 mm compact
  - 150 mm compact
  - 200 mm compact
- The surface of maneuvering at minimum depth:
  - engineer
  - 40 mm compact
  - 50 mm compact
  - 150 mm compact
  - 200 mm compact
- For condominium follows, or as follows:
  - 25 mm compact
  - 50 mm compact
- Other hard surface
  - 50 mm compact
  - 200 mm compact
- All concrete or OPSD 600, 1100 noted Entrance 600 mm minimum
- All required crossings shall
- Existing road driveway entrance
- Sidewalk to be 12B and to include
- Entrance driver aboveground
- Pavement grade

- Entrance driveways shall be constructed with heavy duty asphalt from the back of the municipal curb or edge of pavement to the property line (area highlighted on drawings) in accordance with the following specifications:
- 150 mm compacted depth of H1.3 asphalt - top course
  - 75 mm compacted depth of H1.3 asphalt - binder course
  - 100 mm compacted depth of 20 mm crusher-run limestone - granular base
  - 100 mm compacted depth of 50 mm crusher-run limestone - granular sub-base
  - \* The surface of all leading spaces and related driveways, parking spaces, and maneuvering areas within the site shall be paved with a hard surface. The minimum depth requirements are as follows, or as specified by geotechnical engineer
- 40 mm compacted depth H1.3 asphalt - top course
  - 50 mm compacted depth H1.3 asphalt - binder course
  - 150 mm compacted depth 20 mm crusher-run limestone - granular base
  - 200 mm compacted depth 50 mm crusher-run limestone - granular sub-base
  - For condominium unit driveways, the minimum depth requirements are as follows, or as specified by geotechnical engineer
  - 25 mm compacted depth H1.3 asphalt top course (Top course asphalt shall not be placed, until the base course asphalt has been in place for one winter season. Other hard surfaces may be installed as approved by the City.)
  - 50 mm compacted depth H1.3 asphalt base course
  - 200 mm compacted depth 20 mm crusher-run limestone base
  - All concrete curbs from existing road curb to street line shall be barrier curb (SPS# 600, 110). All concrete curb heights shall be 150 mm unless otherwise noted.
  - Entrance driveway curb to be discontinuous at sidewalk and tapered back 600 mm.
- All required curb cutting at entrance driveway and curbs discontinuous at sidewalk crossings shall be installed to the satisfaction of the City.
  - Existing roadway curb and gutter to be continuous through the proposed new driveway entrance(s) along with the municipal sidewalk.
  - Sidewalk to be 200 mm thick through driveway entrance per City Standard R-102 and to include tactile indicator in accordance with York Region standard.
  - Entrance driveways shall be setback a minimum clearance of 1.0 m from all abutment services or other obstructions.
  - Pavement grades: min 0.2% max 2%



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

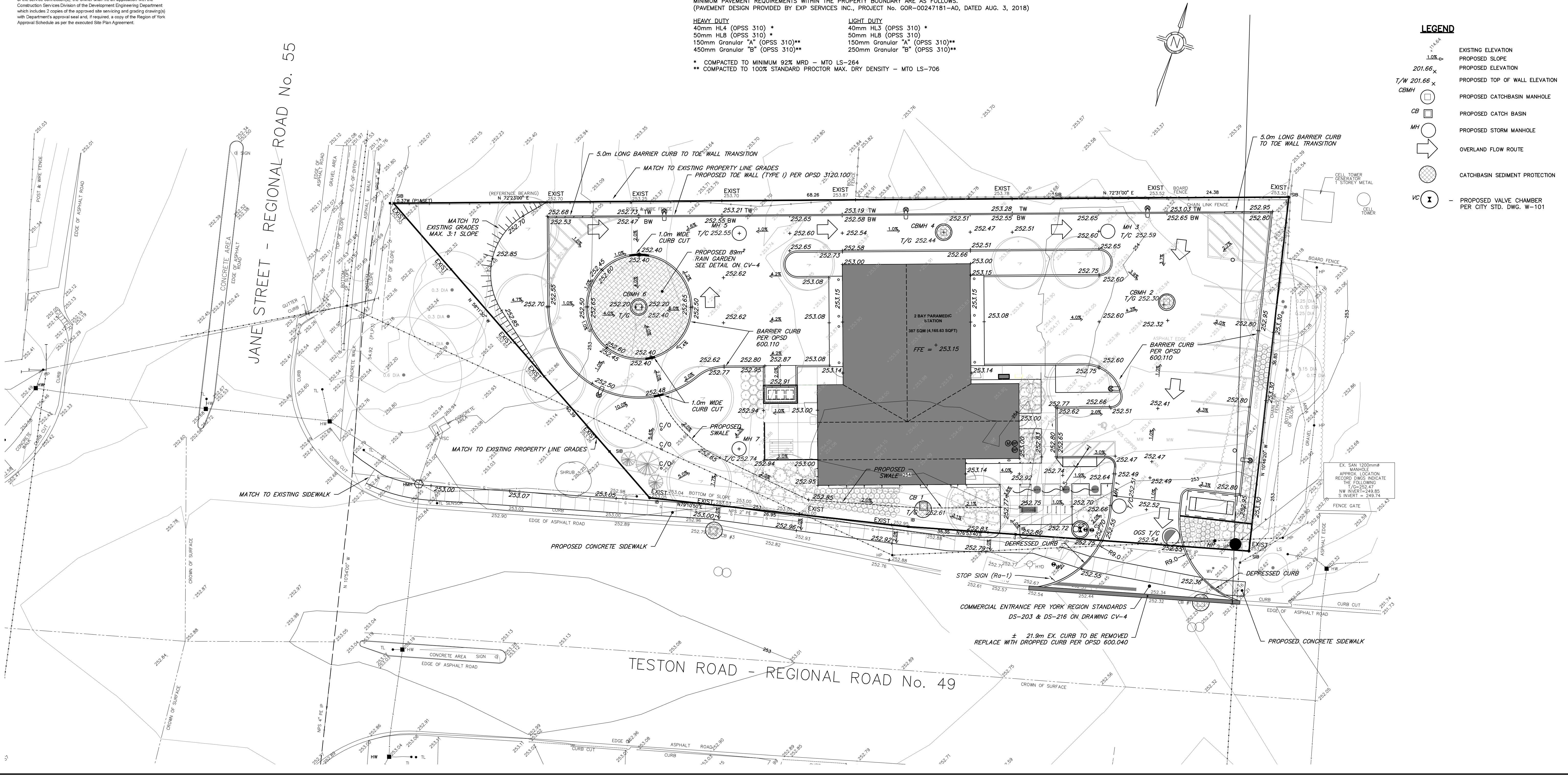
---

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	SPA	2020.07.29
2	SPA	2023.10.13
3	SPA	2024.03.19
4	SPA	2024.06.26
5	TENDER	2025.05.06

YORK REGION PRS  
STATION #33

2960 TESTON ROAD. VAUGHAN ONTARIO

BENCHMARK  
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC  
DATUM(CGVD-28:78) AND ARE DERIVED FROM THE CITY OF  
VAUGHAN BENCH MARK No. 34-9 HAVING A PUBLISHED ELEVATION  
OF 234.384 METRES  
TOPOGRAPHICAL SURVEY PROVIDED BY J.D. BARNES LIMITED, DATED  
AUG.23, 2019 REFERENCE # 19-21-356-00



The image shows the logo for York Region Architect. At the top, the word "CLIENT" is written in a small, sans-serif font. Below it is a stylized graphic of a star or a winged figure. The main part of the logo features the words "York Region" in a large, bold, serif font, with "Architect" in a smaller, sans-serif font underneath. A horizontal line separates the logo from a block of text. The text reads: "THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT." Another horizontal line follows. Below this, the word "ARCHITECT" is written in a bold, sans-serif font. The name "THOMASBROWN" is prominently displayed in a large, bold, sans-serif font, with "ARCHITECTS" in a smaller, lighter font underneath. At the bottom, the contact information is listed: "A 197 SPADINA AVE. SUITE 500, TORONTO, ON", "T 416-364-5710 EXT 101", and "W WWW.TBROWNBROWN.COM".

**MGM**  
**CONSULTING INC**  
Consulting Engineering & Project Management  
400 Bronte Street South  
Suite 201  
L19N, Ontario  
M1T 0H7  
Tel: (905) 567-8678  
Fax: (905) 875-1339  
Email: [mgm@mgm.on.ca](mailto:mgm@mgm.on.ca)  
[www.mgm.on.ca](http://www.mgm.on.ca)

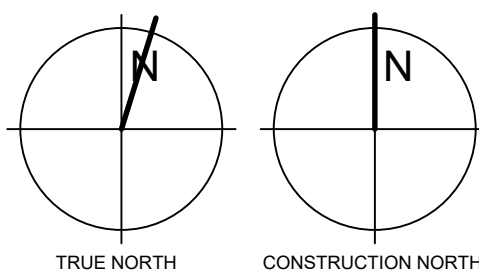
PROFESSIONAL SEAMEN



## GRADING PLAN

CITY FILE # DA 20.037

## ORIENTATION



2020.06.22

CALE:

BN

SPA

PROJECT No. \_\_\_\_\_

2020-030

DRAFTING N

# CV-2

## REVISION

5



GENERAL NOTES

- Standard drawings of the City of Vaughan constitute part of these drawings(a).
- All construction work to be carried out in accordance with the requirements of the Occupational Health and Safety Act and Regulations for construction projects.
- The Owner shall retain the services of his consultants to ensure required inspection reports and/or certification requirements are submitted to the Development Engineering Department and other affected City Departments.
- The Owner and/or his representative shall rectify all disturbed areas to original condition or better and to the satisfaction of the City.
- The location of all underground ground utilities and structures is approximate only and where shown on the drawings the accuracy of the location of such utilities is not guaranteed. The Owner and/or his representative shall determine the location of all such utilities and structures by consulting the appropriate authorities or utility companies concerned. The Owner shall prove the location of such utilities and structures and shall assume all liability for damage or restoration or adjustment for the same.
- Any conflicts with existing services shall be rectified at the Owner's expense.
- Appropriate construction details should be provided for retaining walls higher than 1.0 m. Details shall be designed and certified by a Professional Engineer upon approval. Handrail and/or fence is required when height exceeds 0.80 m (as per City Standard Drawing FFW-105 or approved equal). Upon completion, retaining walls greater than 1.0 m to be certified by a structural and geotechnical engineers.
- Landscaping work shall not encroach on boulevard nor shall boulevard grades be altered.
- Slopes in landscaped areas and on berms shall not exceed 3 horizontal to 1 vertical.
- Grassed drainage swale grades: min. 2%, max. 5%.
- Outside lighting shall be directed downward and inward and designed to maintain zero cut-off light level distribution at the property line.
- Silt fence(s) and other erosion control measures to be installed and maintained to prevent silt flowing onto adjacent lands until the completion of seeding activities.
- Construction access shall be constructed with a minimum depth of 450 mm crushed stone base from the municipal curb or edge of pavement to the property line, to the satisfaction of the City.
- All proposed barrier-free parking spaces to include "B5-B5 BY PERMIT ONLY" traffic sign and barrier-free pavement symbol marking.
- SEWER & WATER
- Sanitary and storm control/maintenance holes shall be in accordance with all applicable OPSD details. Frame and cover shall be OPSD 401.010 Type A or approved equal. The maintenance holes shall be benched to the invert (top) of pipes.
- All sanitary maintenance hole covers in the ponding areas to be water tight sealed covers.
- All catchbasins shall be installed in accordance with City Standard Drawing S-103. All catchbasin frames and grates shall be OPSD 401.010 Type A or approved equal.
- Watermain shall have a minimum vertical separation of 0.5 m and horizontal separation of 2.5 m between any sewer or maintenance hole unless otherwise noted.
- Hydrants to be installed as per City Standard W-104 with 1.0 m minimum clear from all obstructions.
- All industrial/commercial/condominium watermain connections shall be constructed in accordance with City Standard Drawings C-102, C-103, W-106, W-109 and related Standard Drawings.
- Sanitary, storm and water service connections which are not in place on the municipal road allowance to the property line shall be arranged for installation by the City on payment of installation costs by the Owner. To initiate the installation of the service connection(s), the Owner shall file an application with the Construction Services Division of the Development Engineering Department which includes 2 copies of the approved site servicing and grading drawings(s) with Department's approval and, if required, a copy of the Region of York Approval Schedule as per the executed Site Plan Agreement.

ROADWORKS

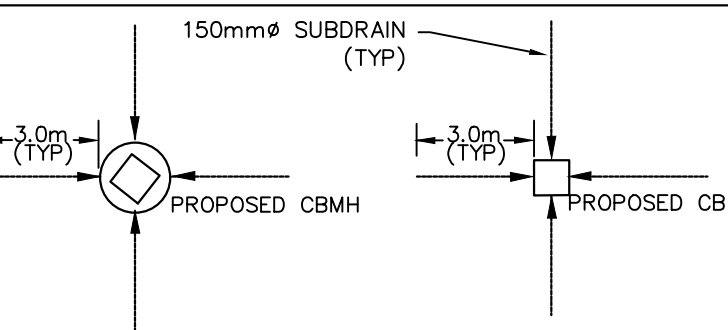
- Entrance driveways shall be constructed with heavy duty asphalt from the back of the municipal curb or edge of pavement to the property line (area highlighted on drawings) in accordance with the following specifications:
  - 50 mm compacted depth of H/L3 asphalt - top course
  - 70 mm compacted depth of H/L3 asphalt - binder course
  - 150 mm compacted depth of 20 mm crusher-run limestone - granular base
  - 300 mm compacted depth of 50 mm crusher-run limestone - granular sub-base
- The surface of all existing spaces and related driveways, parking spaces, and maneuvering areas within the site shall be paved with a hard surface. The minimum depth requirements are as follows, or as specified by geotechnical engineer:
  - 40 mm compacted depth H/L3 asphalt - top course
  - 50 mm compacted depth H/L3 asphalt - binder course
  - 150 mm compacted depth 20 mm crusher-run limestone - granular base
  - 200 mm compacted depth 50 mm crusher-run limestone - granular sub-base
- For condominium unit driveways, the minimum depth requirements are as follows, or as specified by geotechnical engineer:
  - 25 mm compacted depth H/L3 asphalt top course (Top course asphalt shall not be placed until the base course asphalt has been in place for one winter season. Other hard surfaces may be installed as approved by the City.)
  - 50 mm compacted depth H/L3 asphalt base course
  - 200 mm compacted depth 20 mm crusher-run limestone base
- All concrete curb from existing road curb to street line shall be barrier curb OPSD 600.110. All concrete curb heights shall be 150 mm unless otherwise noted. Entrance driveway curb to be discontinuous at sidewalk and tapered back 600 mm minimum.
- All required curb cutting at entrance driveway and curb depressions at sidewalk crossings shall be installed to the satisfaction of the City.
- Existing roadway curb and gutter to be continuous through the proposed new driveway entrance(s) along with the municipal sidewalk.
- Sidewalk to be 200 mm thick through driveway entrance per City Standard R-128 and to include tactile indicators in accordance with York Region standard.
- Entrance driveways shall be setback a minimum clearance of 1.0 m from all aboveground services or other obstructions.
- Pavement grades: min. 0.5%, max. 5%.

NOTE:

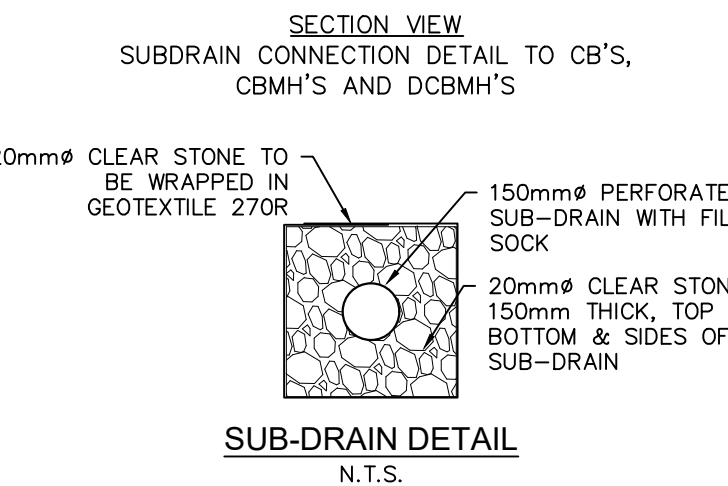
CONTRACTOR TO CONTACT MGM CONSULTING INC. IMMEDIATELY SHOULD THERE BE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND PROPOSED GRADING AND/OR SERVICING DESIGN, OR CONFLICTS IN CONSTRUCTING THE WORK AS PER THE INTENT OF THE APPROVED DESIGN PRIOR TO CONSTRUCTION.

NOTE:

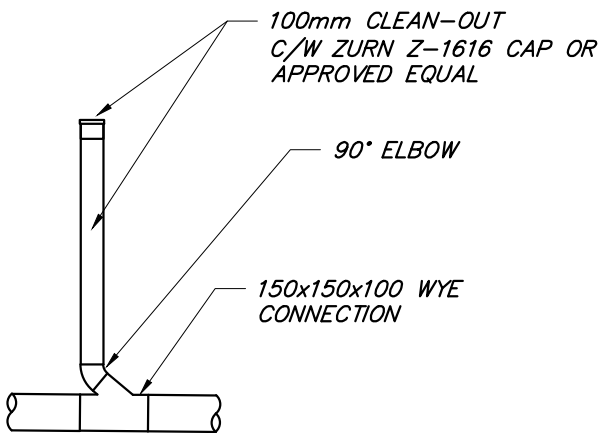
- ALL WORK TO CONFORM TO THE LATEST MUNICIPAL STANDARDS AND SPECIFICATIONS AS WELL AS THE LATEST ADOPTED ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER TO SATISFACTION OF THE MUNICIPALITY AND MGM CONSULTING INC.
- CONTRACTOR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



NOTE: ALL CB, CBMH AND DCBMH STRUCTURES LOCATED IN PAVED AREAS TO HAVE SUBRAIN CONNECTIONS INSTALLED AS SHOWN ON SUBRAIN DETAIL



CLEAN-OUT DETAIL N.T.S.

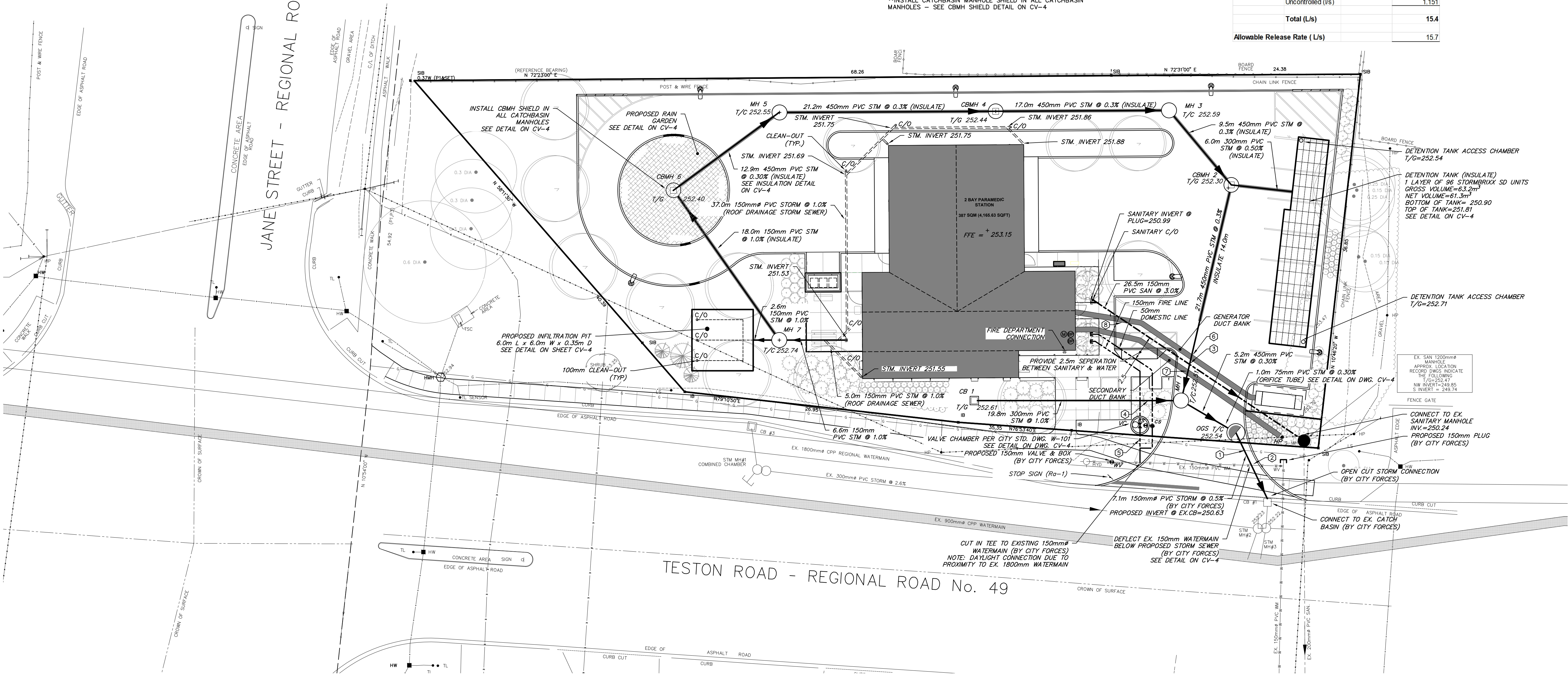


SERVICING CROSSINGS			
No.	OBVERT LOWER	INVERT UPPER	CLEARANCE
C1	249.95 GAS	250.66 STM	0.71m
C2	250.15 WM	250.65 STM	0.50m
C3	250.52 SAN	250.78 STM	0.26m
C4	250.82 STM	250.32 WM	0.50m
C5	249.57 WM	250.07 GAS	0.50m
C6	251.22 STM	251.42 GEN-DUCT	0.20m
C7	251.21 STM	251.44 GEN-DUCT	0.23m
C8	251.05 SAN	251.59 GEN-DUCT	0.54m

STORM STRUCTURE TABLE					
STRUCTURE	STRUCTURE SIZE	STRUCTURE QPSD	FRAME/GRATE QPSD	RIM	INVERT
OCS ST-300	1800mm	-	-	252.54	S 250.67 NW 250.70
MH 1	1200mm	701.010	401.010	252.51	SE 250.72 W 250.77 N 250.77
CBMH 2 *	1200mm	701.010	400.010	252.30	S 250.83 NW 250.88 E 250.88
MH 3	1200mm	701.010	401.010	252.59	SE 250.91 W 250.96
CBMH 4 *	1200mm	701.010	400.010	252.44	E 251.01 W 251.03
MH 5	1200mm	701.010	401.010	252.55	SE 251.09 SW 251.14
CBMH 6	1200mm	701.010	400.010	252.40	NE 251.18 SE 251.23
MH 7	1200mm	701.010	401.010	252.74	NW 251.41 W 251.26 E 251.46
CB1	600x600mm	705.010	400.010	252.61	E 250.98

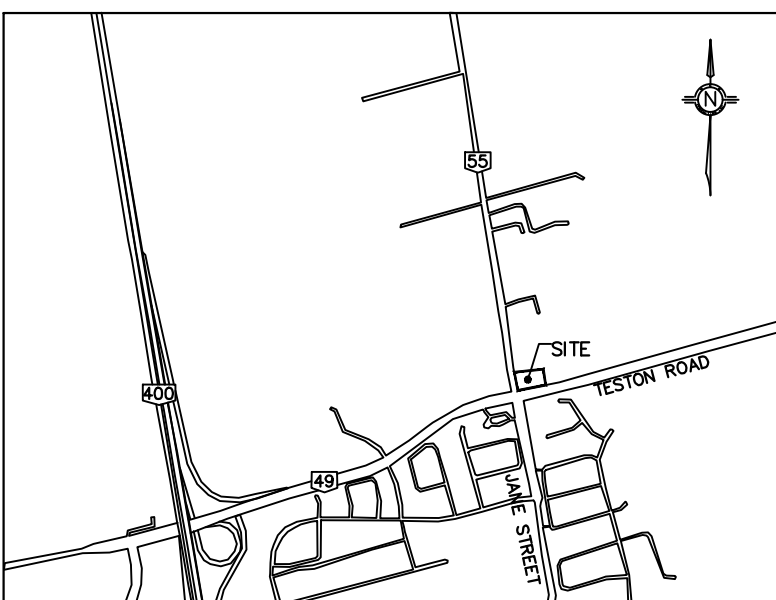
\* PROVIDE 150mm SUBDRAINS PER DETAIL ON THIS DRAWING

\*\*INSTALL CATCHBASIN MANHOLE SHIELD IN ALL CATCHBASIN MANHOLES - SEE CBMH SHIELD DETAIL ON CV-4



STORMWATER MANAGEMENT SUMMARY

Allowable Site Release Rate (L/sec)	15.7
Site Composition	
Site Catchment Area (Ha)	0.259
Roof Area (Ha)	0.04
Controlled Pavement Area (Ha)	0.12
Un-Controlled Pavement Area (Ha)	0.00
Controlled Landscape Area (Ha)	0.07
Un-Controlled Landscape Area (Ha)	0.008
Roof Stormwater Management System	
Total No. of Hoppers	n/a
Total No. of Weirs	n/a
Weir rating (L/sec/cm)	n/a
100 yr Storm Peak Release rate (L/sec)	n/a
Max. detention Storage Requirement ( m³ )	n/a
Design Roof Slope	n/a
Max Roof Ponding Depth at Hopper (cm)	n/a
Avg. Roof Ponding Depth (mm)	n/a
Avg. Drawdown Time (hrs)	n/a
Site Orifice Controls	
Location	Downstream of MH1
Orifice diameter (mm)	75
Invert Elevation (m)	250.70
Centerline Elevation (m)	250.74
Downstream HGL	251.53
Detention Storage TWL (m)	0.79
Design Head (m)	15.7
Design Peak (L/sec)	15.4
Q-Rel (L/sec)	
Stormwater Management Analysis	
Part A - Detention Volume Requirement	
100 yr Required Detention Storage Volume (m³)	74.1
Control Release Rate (L/sec)	14.3
Maximum Detention Storage Available	
Catchment Areas	n/a
Design TWL	251.53
Surface Ponding	0.00
Pipe Storage	14.5
Structure Storage	61.3
Total	75.8
Part B - site Catchment Area Release Rate	
Actual Site Release Rate: Orifice (L/s)	14.285
Uncontrolled (l/s)	1.151
Total (L/s)	15.4
Allowable Release Rate (L/s)	15.7



KEY MAP NTS

LEGEND

- CB (Circular Bypass)
- CBMH (Circular Bypass Manhole)
- MH (Manhole)
- OCS (Orifice Control Structure)
- PROPOSED CATCH BASIN
- PROPOSED CATCH BASIN MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED OIL/GRIT SEPARATOR
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED VALVE CHAMBER PER CITY STD. DWG. W-101

BENCHMARK  
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM(COVD=28.78) AND ARE DERIVED FROM THE CITY OF VAUGHAN BENCH MARK No. 34-9 HAVING A PUBLISHED ELEVATION OF 234.384 METRES  
TOPOGRAPHICAL SURVEY PROVIDED BY J.D. BARNES LIMITED, DATED AUG.23, 2019 REFERENCE # 19-21-356-00

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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	SPA	2020.07.29
2	SPA	2023.10.13
3	SPA	2024.03.19
4	SPA	2024.06.26
5	SPA	2024.09.24
6	TENDER	2025.05.06

YORK REGION PRS  
STATION #33  
2960 TESTON ROAD, VAUGHAN ONTARIO

PROJECT :

CLIENT



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

ARCHITECT

THOMASBROWN  
ARCHITECTS

A 197 SPADINA AVE., SUITE 500, TORONTO, ON  
T 416-384-5710 EXT 101  
W WWW.TBROWNARCH.COM

**MGM**  
CONSULTING INC  
Consulting Engineering & Project Management  
400 Bronte Street South  
Suite 201  
Mississauga, Ontario  
Tel: (905) 887-8678  
Fax: (905) 875-1339  
Email: mrg@mgm-inc.com  
www.mgm-inc.ca

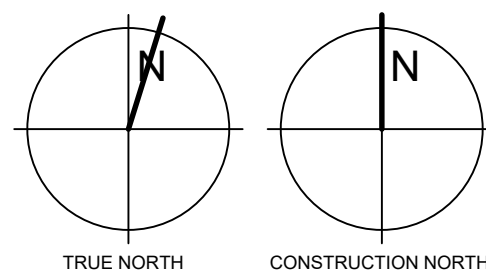
PROFESSIONAL SEAL



SERVICING PLAN

CITY FILE # DA 20.037

ORIENTATION



2020.06.22

SCALE: 1:200  
DRAWN BY: BN

DWG STATUS:

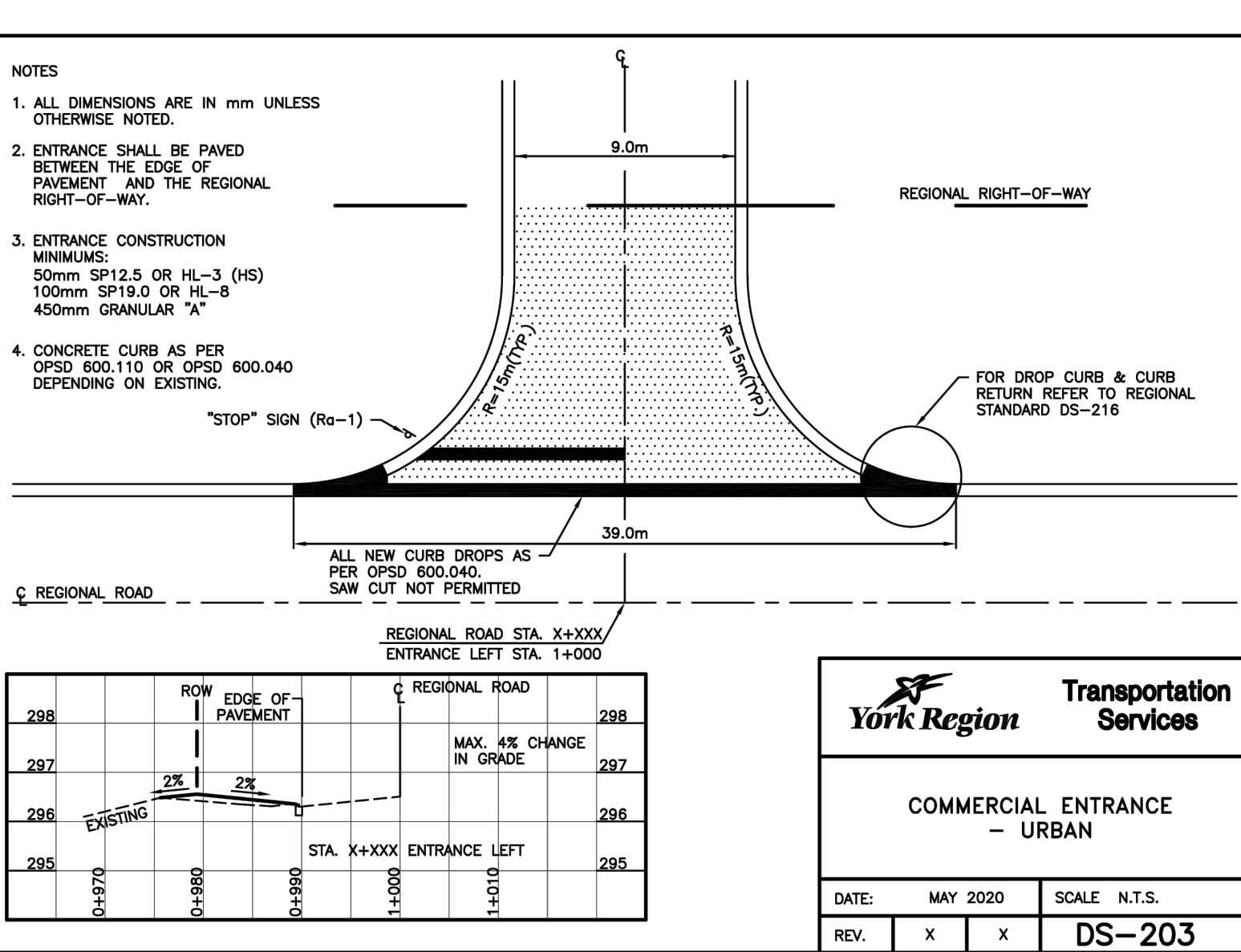
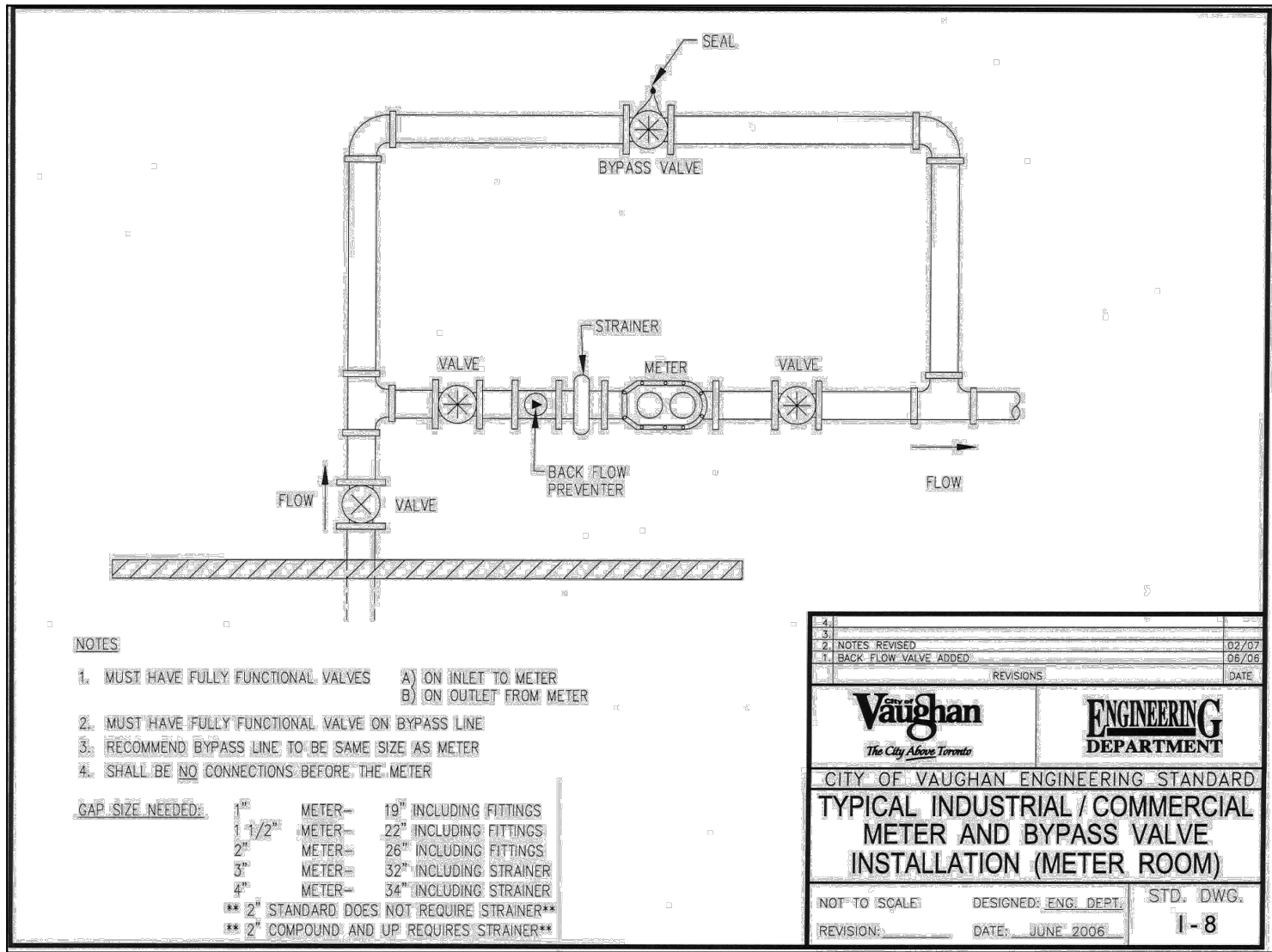
BN

SPA

PROJECT No. 2020-030









DRAWING NUMBER: CV-3  
REVISION: 5

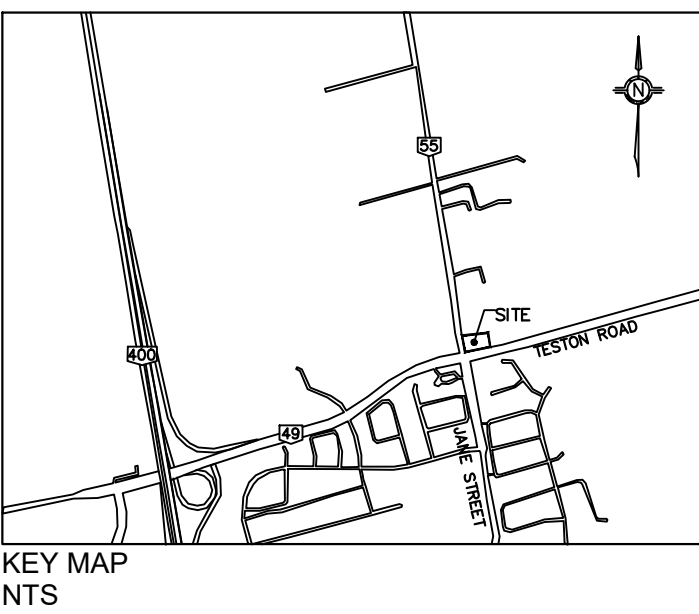






N:\Projects\2020-2024\Working - Public Drawings\2020-2024-CV-030-CV-030

<div><div>Page 1 of 7</div><div><div>Standard Development Construction Practices for Works on York Region Roads</div><div></div></div></div> <div><div><div><div><div>1.</div><div>It is the responsibility of the Owner/ Developer or his Consultant responsible for administering the contract to notify their Contractor(s) to be familiar with and understand the foregoing conditions below. Contractors are expected to have sufficient knowledge, experience and equipment for working on Regional Roads.</div></div><div><div><div>2.</div><div><b>No start-up</b> of road construction projects will be permitted after November 15<sup>th</sup> or prior to March 31<sup>st</sup> without special exemption and permission from York Region's Development Engineering Section.</div></div></div><div><div><div>3.</div><div><b>Winter Work:</b> Any approved development construction within the Regional road allowance, between <b>November 15<sup>th</sup> and March 31<sup>st</sup></b> in any given year, will be considered winter work. Any work (new or ongoing) in the road allowance between these dates may not commence or continue without the written consent of the Region's Supervisor of Development Construction. This written consent may be revoked by the Region at any time. <b>At the Region's discretion, any non-conforming work, in accordance with Provincial and Regional specifications, shall be removed and replaced at the developer's expense, or other measures implemented as determined by the Region.</b></div></div><div><div>Prior to demobilizing for the winter (the "Winter Shut-Down"), the following requirements must be met:</div><div><div><div>(a)</div><div>All excavations must be backfilled;</div></div><div><div>(b)</div><div>The Site must be left clean, tidy and safe;</div></div><div><div>(c)</div><div>Road subgrade and/or road granulars shall not be exposed during the Winter Shut-Down, unless approved in advance by the Region upon written request from the Contractor. The Work shall be scheduled such that the asphalt base course is completed on any completed road granular base prior to the Winter Shut-Down. Gravel or milled pavement surfaces will not be permitted for the traveled roadway during the Winter Shut-Down period;</div></div><div><div>(d)</div><div>Roadways must have temporary or permanent pavement markings and appropriate traffic signage installed in accordance with the Ontario Traffic Manual (OTM), to be maintained at all times and all construction work areas shall be properly protected from the traveled lines during winter shutdown;</div></div><div><div>(e)</div><div>Cut or fill slopes left without vegetative cover or erosion control blankets shall be treated before the on-set of winter with hydraulic mulch ground cover;</div></div><div><div>(f)</div><div>Positive flow for all storm culverts shall be maintained. If the Contractor is unable to complete the construction of the storm system within the allotted construction window, then additional measures to allow for positive drainage will be implemented by the contractor. This includes the provision of additional creek channelization and/or sand bags as needed to divert the flow to existing culverts or channels and maintain flow; and</div></div><div><div>(g)</div><div>Catchbasins and maintenance hole grates shall be adjusted to match the grade of asphalt, ensuring positive drainage and limiting snow removal hazards.</div></div></div><div><div>Repairs to the roadway, interim drainage conditions, erosion control, signage and delineation shall be performed by the Contractor, as required, throughout the Winter Shut-Down period as required at the sole discretion of the Region.</div><div><div>The Region will perform snow clearing and de-icing operations for roads which are open to the public during the Winter Shut-Down period.</div><div><div>The Contractor shall be responsible for snow clearing, snow removal, and de-icing of any areas in which they have elected to perform work during the Winter Shut-Down period. Snow in these areas shall be removed from the right-of-way and must not impede with Regional efforts to keep traveled lines clear of snow/winter debris.</div></div></div><div><div><div>4.</div><div>All traffic control devices and signage must be maintained in their proper locations, cleaned, weighted down by sandbags only, and maintained throughout the duration of the Contract. Regional forces will not reinstate temporary signage displaced by winter maintenance operations. The Contractor shall ensure that all construction signs affected by winter maintenance operations are immediately cleaned and reinstated or replaced. A safety log will be kept ensuring that all temporary safety measures have been inspected regularly and are in good working condition. The Region may request this log at any time.</div></div></div></div><div><div>STANDARD DEVELOPMENT CONSTRUCTION PRACTICES FOR WORK ON YORK REGION ROADS</div><div><div>Development Engineering Division</div><div>Planning and Economic Development Branch, Corporate Services Department</div><div>Revised January 2024</div></div><div></div></div></div></div></div></div></div>	<div><div>Page 2 of 7</div><div><div>5.</div><div>Unless otherwise specified, Ontario Provincial Standards and Specifications and York Region Design Standard Drawings and construction specifications/practices shall be adhered to.</div></div><div><div><div>6.</div><div>A copy of the <b>"Notice of Project"</b> shall be submitted to the Development Construction Coordinator at the pre-construction meeting, posted on the contractor safety board on-site and attached to the pre-construction meeting minutes.</div></div><div><div><div>7.</div><div>The Owner/ Developer will ensure that the Regional road surfaces, ditches and boulevards are kept <b>clear of dust, mud/building and other debris</b> until the lands represented by this approval are fully developed and assumed by York Region Road Operations. The Owner/Developer acknowledges that the Region will carry out any work deemed necessary at the Owner's expense if such requirements are not carried out within 24 hours of notice being given to the applicant, consulting engineer, Owner or without any notice if, in the option of the Commissioner of Corporate Services Department or the designate, it is required immediately. <b>Repeat infractions will be considered a safety violation and may be subject to invoking a stop work order, revoking of the road occupancy permit and/or the required resubmission of the construction access approval including a safety inspection fee of \$2,500.00, or as outlined in Schedule "A" to By-law No. 2020-04, as amended.</b></div></div><div><div>The Region reserves the right to require a <b>wheel wash station</b> if it is deemed necessary for the safety of the public, on per project basis.</div><div><div>In the event that the Region must rectify any deficiencies, make any remedies or must carry out the cleanup of roads from mud, dust, refuse or debris, the Owner acknowledges that the <b>Region shall invoice the Owner, for each occurrence, a minimum of \$2,500.00 or twice the actual cost to perform the work, whichever is greater, as outlined in Schedule "A" to By-law No. 2020-04, as amended.</b></div></div><div><div><div>8.</div><div><b>Prior to starting any development construction work</b> within the Regional Road allowance, please contact the following Development Construction Coordinator, 1-877-464-9675 or email to arrange for a pre-construction meeting prior to construction:</div><div><div><div><div>•</div><div>Ivan Gonzalez; 1-877-464-9675 ext. 75759; email: <a href="mailto:ivan.gonzalez@york.ca">ivan.gonzalez@york.ca</a> Municipality Area: City of Vaughan</div><div><div>•</div><div>Wyatt Werner; 1-877-464-9675 ext. 73114; email: <a href="mailto:wyatt.werner@york.ca">wyatt.werner@york.ca</a> Municipality Area: City of Richmond Hill, Township of King</div><div><div>•</div><div>Nasir Mahmood; 1-877-464-9675 ext. 76029; email: <a href="mailto:nasir.mahmood@york.ca">nasir.mahmood@york.ca</a> Municipality Area: Town of Newmarket, Town of East Gwillimbury, Town of Georgina, Town of Aurora</div><div><div>•</div><div>Joshua Ashfield; 1-877-464-9675 ext. 78012; email: <a href="mailto:joshua.ashfield@york.ca">joshua.ashfield@york.ca</a> Municipality Area: Town of Whitchurch-Stouffville, City of Markham</div></div></div><div><div><div>9.</div><div>It is the responsibility of the Owner/Developer or his Consultant for inspections to ensure that the contractor's <b>locates are staked out prior to any construction</b> and all utilities are relocated to the approved design grades and location.</div></div><div><div><div>10.</div><div>Prior to any related development construction activity on the Region Road allowance, the Owner/ Developer or designate shall apply to the Region to obtain a <b>Road Occupancy Permit (ROP)</b>. The Road Occupancy Permit application is now online only and can be obtained at <a href="http://www.york.ca/roadpermits">www.york.ca/roadpermits</a>. Specific traffic control measures such as temporary traffic lights are to be approved by Traffic Safety and Permit prior to implementation. For general inquiries please contact 1-877-464-9675, x75700 or <a href="mailto:permit@york.ca">permit@york.ca</a>.</div></div><div><div><div>11.</div><div>If the Region deems necessary, <b>portable variable messaging signs (PVMS)</b> shall be provided at least 1 week prior to start of development related road widening and any other road works in the Region right of way to warn the public of potential traffic delays.</div></div><div><div><div>12.</div><div>It is the responsibility of the Owner/Developer or his Consultant to ensure that all emergency services, public transportation routes and school bus services, including York Region Roads Operations Dispatch (<a href="mailto:rm_road_operations_dispatch@york.ca">rm_road_operations_dispatch@york.ca</a>), are notified of any partial or full Regional road closures at least 2 weeks prior to start of development.</div></div></div></div><div><div>STANDARD DEVELOPMENT CONSTRUCTION PRACTICES FOR WORK ON YORK REGION ROADS</div><div><div>Development Engineering Division</div><div>Planning and Economic Development Branch, Corporate Services Department</div><div>Revised January 2024</div></div><div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>	<div><div>Page 3 of 7</div><div><div><div>13.</div><div>All existing Regional and local Municipal sanitary and storm infrastructure in the Regional Right-of-way is to be video inspected and condition assessed prior to commencement and post construction. Video and pictures of the existing site conditions to be submitted to the Construction Coordinator at the pre-construction meeting.</div></div><div><div><div>14.</div><div>All new sewer infrastructure installed within the Regional Right-of-way require a <b>post-construction video inspection</b> submitted to the Region, attention: Development Construction Coordinator prior to any security reductions/releases. This includes any extension to existing infrastructure (e.g., road culverts and sewer extensions).</div></div><div><div><div>15.</div><div><b>Construction accesses</b> onto Regional roads <b>are not permitted</b> unless written approval is granted by the Region, provided the Owner/ Developer apply for approval to the York Region Development Engineering Division. Temporary "truck entrance" signs must be installed on the shoulder of the Regional right-of-way and visible from all approaches. Reference shall be made to the Book 7, Ontario Traffic Manual: Temporary Conditions for details on the use and placement of signs. The Owner shall be responsible for the costs of obtaining, erecting and maintaining these signs until the construction access is decommissioned. <b>Construction accesses shall be constructed as per York Region Drawing No. DS-217. The mud mat is to be fully paved for the entire width of the Regional boulevard (15.0 m typ), when the hauling operations exceed 75,000 cu.m, total or 40 truck trips per day, whichever is greater. Truck route is to be monitored and cleaned by the contractor/consultant/builder/developer as required and non-compliance will result in the work being completed by York Region's forces and/or full closure of the access and revoking of the Road Occupancy Permit at the full expense of the Owner/ Developer per By-Law 2020-04, as amended. After completion of the works, the construction access shall be removed and the road, curbs, ditches and boulevard restored to the satisfaction of the Development Construction Coordinator or designate.</b></div></div><div><div>Any existing accesses such as old residential/commercial driveways/farm accesses, etc. to the Regional Road cannot be used as a construction access without expressed approval by the Region.</div><div><div>16.</div><div>One lane of traffic in each direction on Regional roads <b>must be kept open</b> between the hours of 9:30 a.m. and 3:30 p.m. or as otherwise permitted by the ROP permit conditions. This is provided that the proper signage and flag persons are present to protect the workers and direct traffic safely through the work zone as per Occupational Health and Safety Act and Regulations for Construction Projects and Book 7 Ontario Traffic Manual Temporary Conditions. At all other times, all existing lanes of traffic shall be kept open.</div></div><div><div>Loading and unloading of materials and equipment shall take place off the travelled portion of road wherever possible. Otherwise, loading and unloading of material and equipment shall only take place between the hours of 9:30 a.m. and 3:30 p.m. provided that proper signage and warning signs are present to protect the workers and direct traffic safely. All direct truck equipment or other equipment that may cause damage to the road surface is not permitted for unloading off a Regional Road. <b>Any damages to the existing Regional Road surface due to unloading activities shall be reinstated in its entirety at the Owners cost and at the sole discretion of the Region.</b></div><div><div>Truck queuing on Regional Roads is not permitted at any time for the duration of the construction phase of the project.</div></div><div><div>17.</div><div>All drainage works require <b>Erosion and Sediment Controls (ESC)</b> satisfactory to the approval agencies during construction periods. Prior to and during construction, procedures and controls need to be in place for the minimization of erosion and migration of sediment which might occur during construction. The Owner/ Developer shall ensure routine inspections, as well as after every major storm event, for the ESC control devices to maintain their efficiency as per design and field conditions. <b>Cleanup/hydrovac of existing infrastructure, including manholes, catchbasins, culverts, etc, may be required after ESC failures.</b> The Owner/ Developer or their consultants responsible for inspections are to ensure the contractor adheres to best construction practices and the TRCA / LSRC's "Erosion &amp; Sediment Control Guideline for Urban Construction" (current version) in all regulated areas. The Region is to be copied on all ESC reports.</div></div></div></div><div><div>STANDARD DEVELOPMENT CONSTRUCTION PRACTICES FOR WORK ON YORK REGION ROADS</div><div><div>Development Engineering Division</div><div>Planning and Economic Development Branch, Corporate Services Department</div><div>Revised January 2024</div></div><div></div></div></div></div></div></div>	<div><div>Page 4 of 7</div><div><div><div>18.</div><div>It is the responsibility of the Owner/ Developer or their Consultant responsible for inspections to ensure that an elevation detail of the existing aerial plant is submitted when overhead cabling is present. <b>Cables shall not be less than 5.0 m</b> clearance from the proposed finished grade to the lowest point of the aerial cable as per 3.2.5.6-Access Route Design, Ontario Building Code Standards.</div></div><div><div><div>19.</div><div>Any <b>dewatering</b> discharge activity requires an approved application. Applications are available online by completing the form at <a href="http://www.york.ca/dewatering">www.york.ca/dewatering</a> or contacting 1-877-464-9675 extension 75067 at Public Works Department, Environmental Services.</div></div><div><div><div>20.</div><div><b>Tunnel shafts and auger pits</b> shall be located at the bottom of the ditch line and back slope of the ditch, or beyond the toe of slope in a fill area. All open excavations shall be protected with barricades with proper crash attenuation measures in place within the Regional road allowance. <b>No torpedo is to be used</b> under any of the Regional paved road at any time unless written approval is granted.</div></div><div><div><div>21.</div><div>Steel Liners are required to be installed for watermain, sanitary sewer and sanitary forcemain crossing Regional Road within ultimate pavement area and extend a minimum of 1.0 m beyond the ultimate edge of pavement or ultimate back of curb. Steel liners shall have a minimum cover of 2.1 m below centre line of road. Steel liners are not required when watermain, sanitary sewer or sanitary forcemain crossing of Regional Road is installed via directional drilling.</div></div><div><div><div>22.</div><div><b>Trenches</b> proposed across Regional roads shall be backfilled with unshrinkable fill as per OPSS 1359 material specification for unshrinkable backfill up to road subgrade. Placement shall be a minimum of 1.0 m beyond the existing edge of pavement or back of curb. The trench shall be covered for a minimum of 24 hours with steel plates of sufficient strength to support traffic, prior to restoration of granular and asphalt make up. <b>The steel plates shall be recessed into a 300 mm wide by 50 mm deep step joint</b> provided in the existing pavement. If the sewer or watermain within the Regional right-of-way is less than 1.2 m in depth, insulation shall be installed with 50 mm of SM insulation or approved equal, in accordance with OPSD 1109/030 &amp; OPSS MUNI 1605, and self-compacting 19 mm (¾") crushed granular material in lieu of unshrinkable fill shall be placed. <b>The use of High Performance or other rounded granular stone is not permitted.</b> No traffic is permitted on the granular backfill unless it is protected by approved road plates or asphalt pavement as specified.</div></div><div><div><div>23.</div><div>Where the stability, safety or function of the existing roadway or underground facilities may be impaired due to the contractor's method of operations, the contractor shall provide such protection as may be required. This protection may include <b>sheathing, shoring and the driving of piles</b> where necessary, to prevent damage to existing adjacent services or proposed works. Construction for shoring, bracing and protection schemes shall conform to the specification of OPSS MUNI 404 and OPSS MUNI 539 current version. Additionally, all works shall be carried out in conformity with the Occupational Health and Safety Act and Regulations for Construction Projects. The Consulting Engineer responsible for inspections and/or York Region Development Engineering Division staff <b>shall notify the Ministry of Labour</b>, if in their opinion, unsafe conditions exist on site in accordance with Ontario Regulation for Construction Projects and the Owner fails to rectify said unsafe conditions in a timely manner.</div></div><div><div><div>24.</div><div>In urban sections, all <b>subdrains</b> shall be 150 mm diameter perforated pipe (OPSS 405) wrapped in nonwoven geotextile (OPSS 1860). In rural sections, subdrains will be required where granular base does not connect with the ditch invert. Ditch inverts shall be at a lower elevation than the granular base to ensure positive drainage. All rural subdrains shall be 150 mm diameter perforated pipe (OPSS 405) wrapped in nonwoven geotextile (OPSS 1860) with rodent gates installed at all outlets spaced at 50.0 m to 70.0 m intervals.</div></div><div><div><div>25.</div><div><b>All curb returns</b> to Regional curbs and gutter to be constructed in accordance with the Regional standard curb return drawing number DS-216, OPSS MUNI 353 and OPSS MUNI 1350 current versions for all standard circumstances unless otherwise approved. Curb returns in rural sections shall be offset 0.5 m from the edge of travelled portion of the road.</div></div><div><div><div>26.</div><div>When determined by the Region, <b>catchbasin lids</b> on existing maintenance holes shall be replaced with a <b>maintenance hole cover</b> OPSD 401.01 and the new catchbasin with frame &amp; grate shall be OPSD 400.110.</div></div></div></div><div><div>STANDARD DEVELOPMENT CONSTRUCTION PRACTICES FOR WORK ON YORK REGION ROADS</div><div><div>Development Engineering Division</div><div>Planning and Economic Development Branch, Corporate Services Department</div><div>Revised January 2024</div></div><div></div></div></div></div></div></div></div></div></div></div>	<div><div>Page 5 of 7</div><div><div><div>27.</div><div><b>Granular road base</b> on Regional Roads shall be installed as per OPSS 314 and MUNI 1010 and shall be a minimum of 450 mm Granular "B" Type 1" and 150 mm Granular "A" or match existing depths, whichever is greater, or as approved by the Region. All granular material placed under pavement shall be compacted to 100% of the maximum dry density. All other native materials shall be compacted to 95% of the maximum dry density. The results of the compaction tests and analysis shall be monitored by the geotechnical consultant on a <b>full-time basis</b>, and reports shall be submitted to the York Region, Development Engineering Division, and attention: Development Construction Coordinator. <b>Recycled granular material will not be accepted.</b></div></div><div><div><div>28.</div><div><b>All new asphalt shall be:</b><ul style="list-style-type: none"><li>• <b>Base course</b> – minimum of 100 mm (2 lifts of 50 mm) Superpave 19.0 PGAC 64-28 Category 'D' Roadway, compacted to between 91.0% to 96.5% of MRD<ul style="list-style-type: none"><li>o The maximum RAP content allowed in SP 19.0 hot-mix asphalt is 15%.</li><li>o The use of recycled shingle tabs in any mix is not permitted.</li><li>o The use of slag as an aggregate in any mix is not permitted.</li></ul></li><li>• 4.8% PGAC content</li><li>• 5.0% PGAC content is to be used instead of 4.8% when the base course asphalt will be exposed over one or more winter periods.</li></ul><li>• <b>Top course</b> – minimum of 50 mm Superpave 12.5 FC-1 PGAC 64-28 Category 'D' Roadway. Compacted to between 92.0% to 97.5% of MRD<ul style="list-style-type: none"><li>o No RAP to be used in SP 12.5 top course asphalt</li><li>o 5.0% PGAC content</li></ul></li><li>• <b>Tack coat</b> required between lifts, on existing asphalt, at step joints and on areas specified by the Geotechnical Engineer and/or Development Construction Coordinator in accordance with OPSS 310</li><li>• The Contractor shall use a <b>material transfer vehicle</b> that has on-board mixing capabilities, and a minimum storage capacity of 25 tonnes. A material transfer system such as a shuttle buggy (Roultree SB-2500C Shuttle Buggy ® or approved equivalent) shall be used (note: delete this requirement if scope of work is relatively small i.e., paving small areas)</li><li>• <b>Joint heaters</b> shall be used in the construction of longitudinal joints to eliminate the occurrence of cold joints</li><li>• <b>Longitudinal and transverse step joints</b> between the new hot mix asphalt (HMA) pavement and the previously paved pavement shall be constructed by trimming the previously paved pavement edge to a straight, clean, vertical surface of at least 50 mm</li><li>• All mixed designs to be submitted to York Region's Development Construction Coordinator at <b>least 48hrs prior to commencing paving operations</b></li><li>• A <b>pre-paving meeting</b> shall be scheduled by the Owner/ Consultant at the discretion of York Region's Development Construction Coordinator</li><li>• The results of the <b>compaction tests and analysis</b> shall be submitted to the York Region, Development Engineering Division, Attention: Development Construction Coordinator. The Region requires copies of original asphalt material tickets and summaries to verify material type and quantities</li><li>• All asphalt placed shall be in accordance with OPSS 310, MUNI 1101, MUNI 1151 current versions.</li><li>• Placing of Hot Mix Asphalt must adhere to OPSS-310.07.06.02 Operational Constraints</li></div></div><div><div><div>29.</div><div><b>Single Unit Residential Driveway</b> construction makeup:<ul style="list-style-type: none"><li>Min. 300 mm of Granular "A"</li><li>Min. 50 mm HL-3 top asphalt</li></ul></div><div><div>Multiple Unit Residential/Condominium/Commercial/Industrial Driveway construction makeup:<ul style="list-style-type: none"><li>Min. 450 mm of Granular "A"</li><li>Min. 100 mm HL-8 base asphalt</li><li>Min. 50 mm HL-3 HS top asphalt</li></ul></div></div><div><div>30.</div><div>All asphalt tapers and road widening(s) require a <b>fully paved shoulder</b> with full depth asphalt for all rural cross-sections. Typical paved shoulder width is 2.5 m, following a granular rounding to the edge of top of slope.</div></div></div></div><div><div>STANDARD DEVELOPMENT CONSTRUCTION PRACTICES FOR WORK ON YORK REGION ROADS</div><div><div>Development Engineering Division</div><div>Planning and Economic Development Branch, Corporate Services Department</div><div>Revised January 2024</div></div><div></div></div></div></div></div>	<div><div>Page 6 of 7</div><div><div><div>31.</div><div>All asphalt joints shall include a minimum 500 mm wide by 50 mm depth <b>step joint</b> into the existing top course asphalt. Depending on specific site conditions, the width of the step joint may be required to be <b>increased at the Region's discretion beyond 500 mm</b> to ensure proper cross-fall from the existing road cross-section and ensure a stable joint into the existing pavement. In any case, the Development Construction Coordinator shall be contacted in advance for an on-site field inspection and consultation prior to any paving. All joints will require rout and seal as per material specification OPSS-1212 and construction specification OPSS-341, DemolBand (OPSSMUNI 1103) or approved equivalent.</div></div><div><div><div>32.</div><div>All permanent durable pavement markings shall be installed in accordance with Regional Specifications and conform to OPSS 710, OPSS 1712, OPSS 1713, OPSS 1714 &amp; OPSS 1750.</div></div><div><div><div>33.</div><div>All new curb <b>drops</b> to follow OPSS 600.040 concrete barrier curb and gutter standard. Concrete <b>sidewalk ramps</b> at intersections to be AODA compliant in accordance with standard drawing DS-119, 120 and 121 and/or as shown in the approved electrical drawings.</div></div><div><div><div>34.</div><div>Any existing driveways, curb drops or ramps that are not proposed/approved <b>shall be removed</b> and replaced with full curb as per OPSD 600.040 in urbanized areas or replaced with proper ditch sloping in rural areas, with 100 mm topsoil and sod to stabilize the restoration. Existing driveways cannot be used as construction accesses without approval from the Region as this is a change of the driveway's use.</div></div><div><div><div>35.</div><div>No landscaping, hoarding, fencing, signs, steps, stairs, canopy, sprinkler systems, temporary accesses or any other <b>encroaching structures</b> are to be permitted within the Regional road allowance without written approval or encroachment permit from York Region Development Engineering Division.</div></div><div><div><div>36.</div><div>All <b>grassed areas</b> disturbed during construction on the Regional Road right-of-way shall be restored with 100 to 200 mm of topsoil and sod placed (staked on slopes and ditches) to the bottom of the granular "A" shoulder rounding or as required by the Development Construction Coordinator, in accordance with OPSS 803 current version. All <b>revegetated areas</b> to be maintained <b>periodically or as required (grass watering, grass cutting and boulevard maintenance) by the applicant until final release of securities and assumption by the Region.</b></div></div><div><div><div>37.</div><div>Final <b>restoration works</b> are to be completed within 6 months of asphalt placement and non-compliance may result in work completed by York Region forces at the expense of the owner with the project application securities used or withheld to ensure payment and final work.</div></div><div><div><div>38.</div><div>Approved drawings, including engineering, underground, landscaping, electrical and detailed traffic management plans <b>must be adhered to at all times</b> unless otherwise directed by the Development Construction Coordinator. All works on Regional right-of-way shall be carried out as per the approved drawings and Regional standards/guidelines, OPSS &amp; OPSD drawings &amp; regulatory specifications, policies and/or as required by the Region's Development Construction Coordinator or designate.</div></div><div><div><div>39.</div><div><b>New intersections and/or new legs of an existing intersection</b> are not to be opened to any use until all traffic control measures are installed, including all illumination, signalization, pavement markings, and signage. For new signalized intersections, a signal inspection shall be scheduled by York Region Electrical prior to energization. Final approval for opening shall be determined by York Region Electrical Construction Coordinators and Traffic Operations Technologists. New intersections are to be barricaded to prevent access until specific permission has been given by the Region.</div></div><div><div><div>40.</div><div><b>Regulatory and hazard warnings signs</b> as per OTM Book 5 and Book 6 shall be shown on the approved drawings and/or as required on site by the Development Construction Coordinator and/or the Electrical Construction Coordinator. All permanent signage in the Region's right-of-way shall be installed on minimum <b>100 mm x 100 mm pressure treated wooden posts</b> and as per OTM/York Region standards.</div></div><div><div><div>41.</div><div>The approach ends of a <b>raised median</b> on the Regional road shall have the typical "Keep Right" sign and object marker as per the Region specification E-7.01, installed immediately after the median construction. Right in/right</div></div></div></div><div><div>STANDARD DEVELOPMENT CONSTRUCTION PRACTICES FOR WORK ON YORK REGION ROADS</div><div><div>Development Engineering Division</div><div>Planning and Economic Development Branch, Corporate Services Department</div><div>Revised January 2024</div></div><div></div></div></div></div></div></div></div></div></div></div></div></div>	<div><div>Page 7 of 7</div><div><div><div>42.</div><div>Approved <b>emergency accesses</b> to Regional roads are to be in place prior to any building permits being issued for the subdivision. <b>All gates, bollards etc, shall be located on private property/local municipal lands.</b> Temporary construction accesses shall be closed off permanently on the Regional road prior to the first residential occupancy or if the Owner/ Developer can demonstrate to the Region that there is no residential use. Temporary sales access use shall be for sales access only and be relocated to the new adjacent road (if applicable) once constructed and open to public traffic.</div></div><div><div><div>43.</div><div>It is the responsibility of the Owner/Developer to <b>protect all existing survey monumentation</b> on or adjacent to the site that may be destroyed/ disturbed during construction. Should these monuments be damaged in any way, the owner shall have the survey monuments replaced by an Ontario Land Surveyor prior to the reduction or release of any security.</div></div><div><div><div>44.</div><div>All <b>landscape features</b> including retaining walls, steps/stairs, footings and columns, fencing, sprinkler systems, etc., to be located on the Private Property and/or behind 0.3 m reserve, will require an Ontario Land Surveyor's Certificate in confirmation, <b>along with a copy of the survey/drawing/sketch</b> submitted prior to reduction or release of any security. OLS must certify that all 0.3 m reserves through accesses (ie: new intersections or driveways) have been lifted prior to public use.</div></div><div><div><div>45.</div><div><b>Interlocking concrete paving stones</b> must be supported on 125 mm concrete base (including wire mesh and spacing of drainage holes) as per York Region standard SS-100.</div></div><div><div><div>46.</div><div>The Owner/ Developer or their Consulting Engineer responsible for inspections shall advise the Contractor that the integrity of the above and below ground Regional road facilities shall be properly located and maintained. Any above/below ground infrastructure damaged during construction is to be reported to the appropriate Regional Development Construction Coordinator, and the repair may require the work to be completed by the Region at the Owner's expense.</div></div><div><div><div>47.</div><div>All <b>construction correspondence</b> is to be directed to the York Region Construction Coordinator, Development Engineering Division, and must specify the appropriate <b>Regional approval and file numbers.</b></div></div><div><div><div>48.</div><div>Prior to any <b>security release or reduction</b> of the development security deposit, all applicable requirements listed in the "York Region Security Release and Reduction List of Requirements" (current version) shall be submitted to the attention of the appropriate Development Construction Coordinator for Regional clearance. A final inspection must be conducted by the Region and Owner's/Developer's consultant prior to any security reduction or release.</div></div><div><div><div>49.</div><div>The Owner/ Developer agrees to <b>indemnify</b> the Region, and its employees, elected officials, contractors and agents against any and all actions, causes of action, suits, claims and demands whatsoever which may arise either directly or indirectly by reason of undertaking any of the Owner/ Developer's work with respect to the development approvals and construction.</div></div><div><div><div>50.</div><div>The Owner/ Developer must retain a Consulting Engineer or Consultant to ensure compliance of all work within the Region's right-of-way. The Region at any time may request a <b>copy of the daily construction reports or other timing/scheduling as required</b> at the sole discretion of the Region.</div></div><div><div><div>51.</div><div>It is a condition of Regional Approval that the Owner/ Developer or their Consultant (responsible for inspections and compliance) is <b>liable with respect to all work done on Regional property.</b> This liability shall extend to so much time as the works have been granted final compliance, including all invoices paid, land conveyances and listed Region requirements are completed to the Region's satisfaction prior to reduction or release of any security.</div></div></div></div><div><div>STANDARD DEVELOPMENT CONSTRUCTION PRACTICES FOR WORK ON YORK REGION ROADS</div><div><div>Development Engineering Division</div><div>Planning and Economic Development Branch, Corporate Services Department</div><div>Revised January 2024</div></div><div></div></div></div></div></div></div></div></div></div></div></div>
---	---	---	--	--	--	---



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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	SPA	2024.03.19
2	TENDER	2025.05.06

PROJECT :

YORK REGION PRS STATION #33

2960 TESTON ROAD, VAUGHAN ONTARIO

CLIENT



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

ARCHITECT

THOMASBROWN ARCHITECTS

A

197 SPADINA AVE., SUITE 600, TORONTO, ON

T

416-364-5710 EXT 101

W

WWW.TBROWNARCH.COM

MGM CONSULTING INC

Consulting Engineering & Project Management  
400 Bloor Street South  
Suite 201  
Mississauga, Ontario  
L5T 0H7

Tel: (905) 887-9678  
Fax: (905) 875-1339  
Email: [mrg@mgm-inc.ca](mailto:mrg@mgm-inc.ca)  
www.mgm-inc.ca

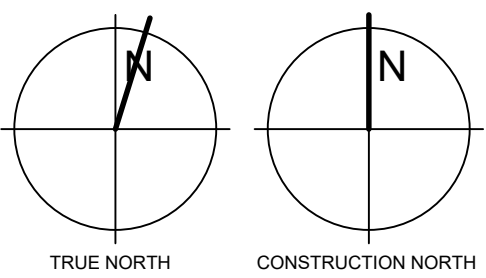
PROFESSIONAL SEAL



YORK REGION NOTES

CITY FILE # DA 20.037

ORIENTATION



2020.06.22

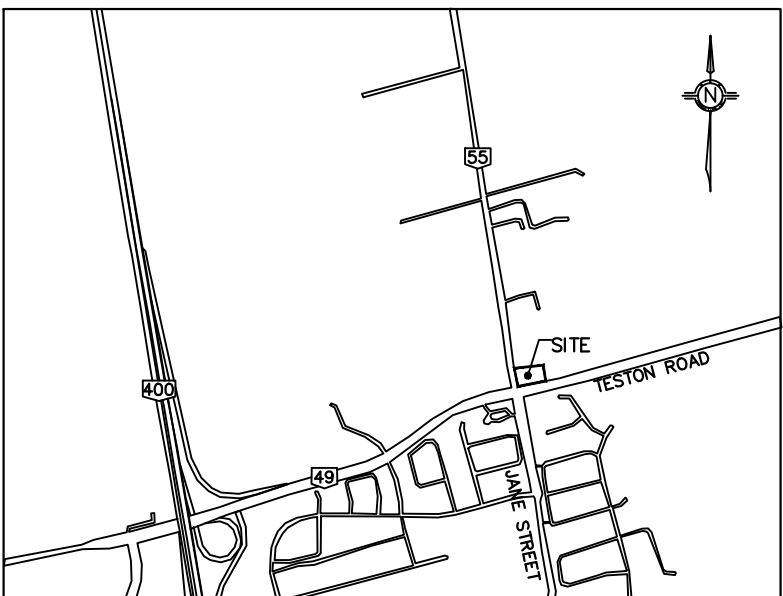
SCALE: N/A DRAWN BY: BN

DWG STATUS: SPA

PROJECT NO: 2020-030

DRAWING NUMBER: CV-5 REVISION: 2





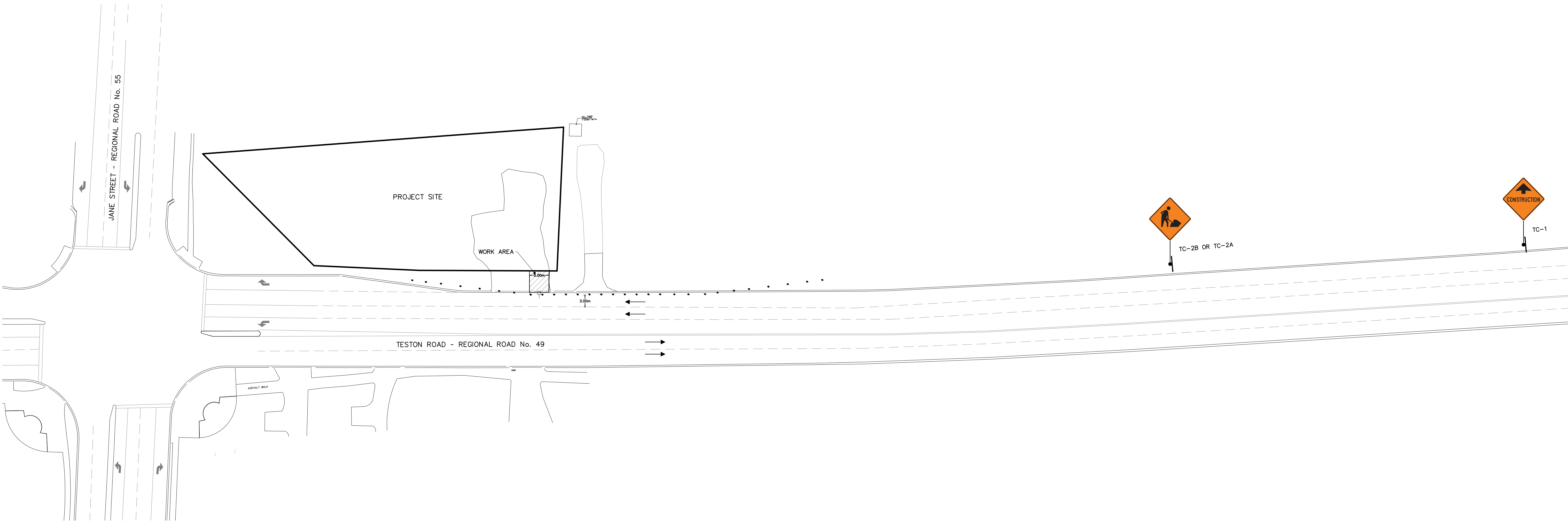
KEY MAP  
NTS

**LEGEND**

- TRAFFIC FLOW  
• TC-54 BARRELS  
+ TRAFFIC SIGN

**NOTES:**

- Drawing to scale 1:500
- All traffic control in accordance with OTM Book 7
- Any signs removed during traffic management are to be restored.
- Traffic Control Measures may be field adjusted to ensure the safety of the workers and the public.



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

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	SPA	2024.06.26
2	TENDER	2025.05.06

PROJECT :  
**YORK REGION PRS  
STATION #33**  
2960 TESTON ROAD, VAUGHAN ONTARIO

CLIENT



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

ARCHITECT

**THOMASBROWN  
ARCHITECTS**

A 197 SPADINA AVE. SUITE 500, TORONTO, ON  
T: 416-364-5710 EXT 101  
W: WWW.TBROWNARCH.COM

**MGM  
CONSULTING INC**  
Consulting Engineering & Project Management  
400 Bloor Street South Tel: (905) 957-8679  
Suite 201 Fax: (905) 875-1339  
Mississauga, Ontario Email: mgn@mgn.on.ca  
L8T 0H7 www.mgm.on.ca

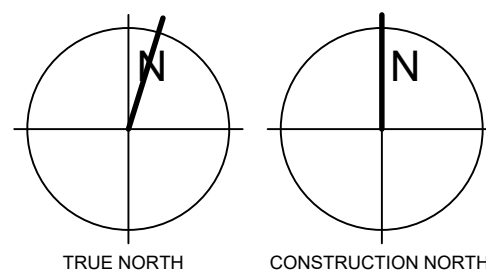
PROFESSIONAL SEAL



**TRAFFIC  
MANAGEMENT PLAN**

CITY FILE # DA 20.037

ORIENTATION



2024.06.20

SCALE: 1:500 DRAWN BY: BN

DWG STATUS:

SPA

PROJECT No.

2020-030

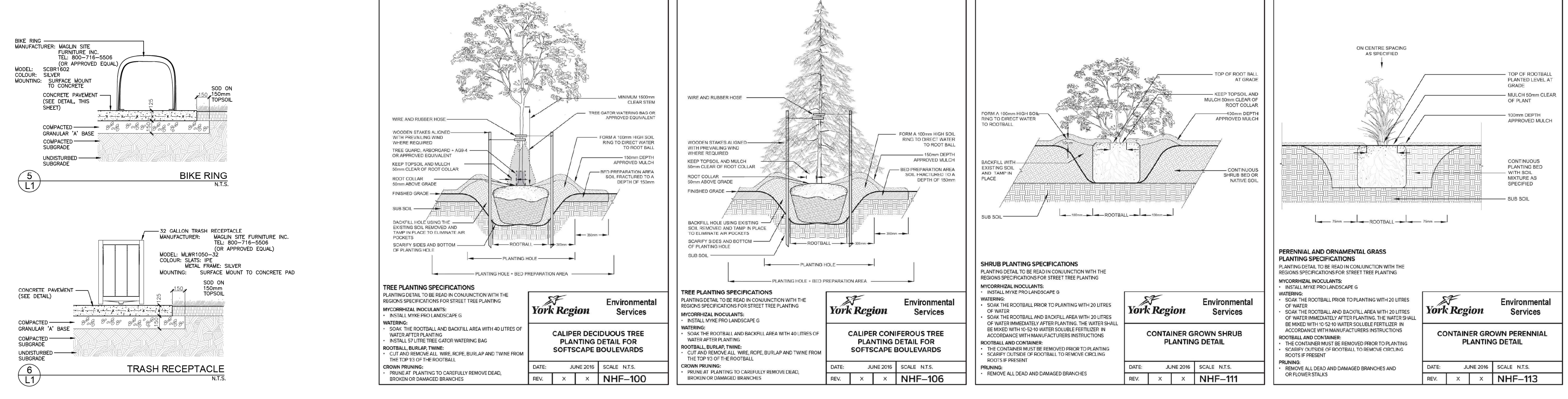
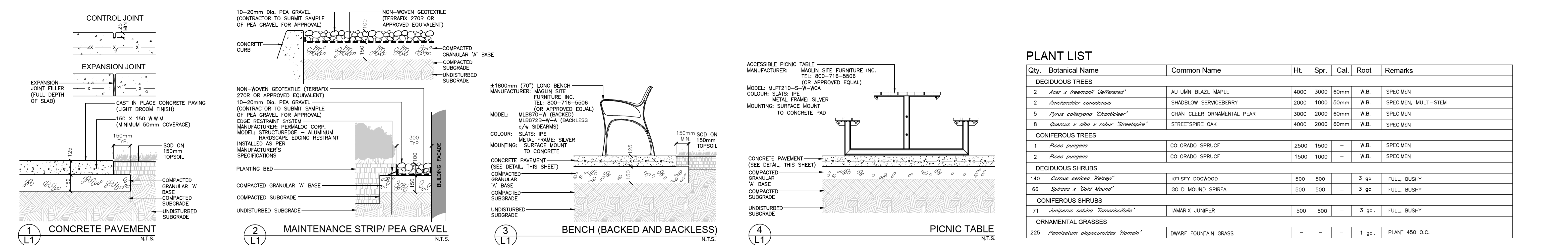
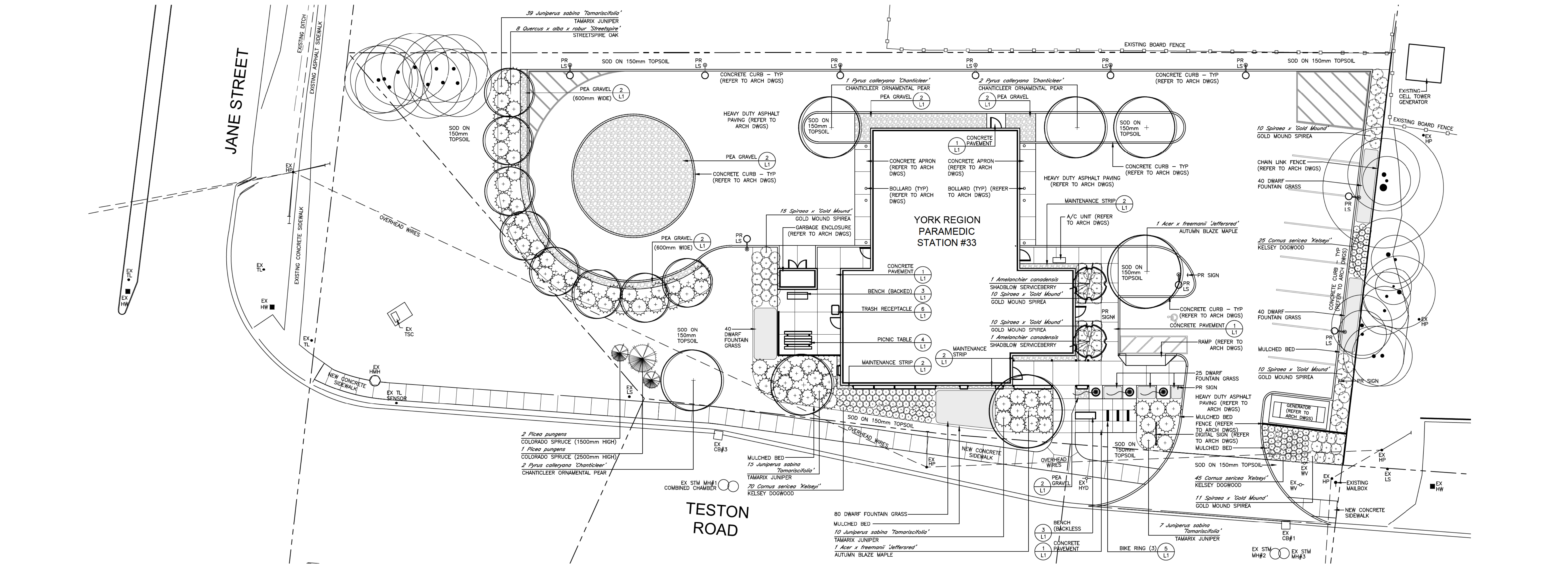
DRAWING NUMBER

**CV-6**

REVISION

-





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

ISSUE or REVISION		
No.	Description	Date
1	REVISED AS PER MUNICIPAL COMMENT	MAY 2021
2	REVISED EX TREES AS PER UPDATED ARBORIST REPORT	JUL 2024

### LEGEND

EXISTING MAINTENANCE HOLE	EXISTING CONIFEROUS TREE
EXISTING CATCH BASIN	EXISTING LIGHT STANDARD
EXISTING WATER VALVE	EXISTING HYDRO POLE
EXISTING LIGHT STANDARD	EXISTING FIRE HYDRANT
EXISTING HYDRO POLE	EXISTING TRAFFIC LIGHT
EXISTING FIRE HYDRANT	EXISTING TRAFFIC LIGHT SENSOR
EXISTING TRAFFIC LIGHT	EXISTING TRAFFIC SIGNAL CONTROL
EXISTING TRAFFIC LIGHT SENSOR	EXISTING HANDWALL
EXISTING TRAFFIC SIGNAL CONTROL	PROPOSED LIGHT STANDARD
EXISTING HANDWALL	PROPOSED SIGNAGE

### NOTES

GENERAL:

- THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED BY THE LANDSCAPE ARCHITECT.
- REPORT DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS TO LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF SITE WORK.
- OBTAIN NECESSARY PERMITS PRIOR TO COMMENCEMENT OF WORK.
- MAKE GOOD ANY DAMAGES RESULTING FROM WORK CARRIED OUT UNDER THIS CONTRACT AT NO EXTRA COST TO THE OWNER.
- THE LOCATION OF UNDERGROUND SERVICES SHOWN ON THIS PLAN IS ONLY APPROXIMATE AND IS FOR PLANNING AND DESIGN PURPOSES ONLY. LOCATE EXISTING SITE SERVICES PRIOR TO COMMENCEMENT OF SITE WORK. HAND DIG NEAR ALL UNDERGROUND SERVICES.
- ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

PLANTING NOTES:

- INSTALL COMMERCIAL GRADE LANDSCAPE FABRIC UNDER ALL PLANTING BEDS.
- SUPPLY AND INSTALL 75mm SHREDDED BARK MULCH (GRO-BARK-SPM OR APPROVED EQUAL) ON ALL PLANTING BEDS.
- PLANT MATERIAL SHALL MEET REQUIREMENTS OF THE LATEST EDITION OF THE NURSERY TRADES ASSOCIATION GUIDE SPECIFICATION FOR NURSERY STOCK UNLESS OTHERWISE SPECIFIED.

**Harrington McAvan Ltd**  
41 Main Street, Unit 102  
Uxbridge, Ontario L9R 2E5  
Tel: 905-244-8202 Fax: 905-244-7023  
www.harringtonmcavan.com  
Offices in Uxbridge & Ayrview

**THOMASBROWN ARCHITECTS**

197 Spadina Avenue, Suite 500 T: 416-364-5710 ext 101  
Toronto, ON M5T 2C8 info@tbrownarch.ca

PROFESSIONAL SEAL

**ASSOCIATION OF LANDSCAPE ARCHITECTS**  
MEMBER SINCE 2010

DWG TITLE: **LANDSCAPE PLAN AND DETAILS**

PROJECT: **YORK REGION PRS STATION #33**  
2960 TESTON ROAD, VAUGHAN

REGION FILE NO: SP.20.V.0198

DATE:	JULY 2025
SCALE:	1:150
DRAWN BY:	A.C. / R.M.
CHECKED BY:	R.M.
DESIGNED BY:	R.M.
DWG STATUS:	REVISED EX TREES AS PER UPDATED ARBORIST REPORT
PROJECT NO:	20-07
DRAWING NO:	L1 of 1
REVISION:	2