

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

A12.1

A13.3

A13.4

A13.5

A13.6

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

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BUILDING ELEVATIONS

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MILLWORK PLANS AND ELEVATIONS & DETAILS

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S1-03

S1-04

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

7405 EAST DANBRO CRESCENT MISSISSAUGA. ON ON L5N 6P8 TEL: (905)-285-9900 STRUCTURAL DRAWING LIST **MECHANICAL DRAWING LIST**

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MECHANICAL CONSULTANT

MEZZANINE PLAN - SPRINKLERS

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

> **ELECTRICAL DRAWING LIST** DRAWING TITLE E1.0 LEGEND, SCHEDULE AND DETAILS SITE PLAN - ELECTRICAL LAYOUT LIGHTING LAYOUT - GROUND FLOOR LIGHTING LAYOUT - MEZZANINE PLAN POWER & SYSTEMS LAYOUT - GROUND FLOOR POWER & SYSTEMS LAYOUT - MEZZANINE LEVEL POWER & SYSTEMS LAYOUT - ROOF PLAN SINGLE LINE DIAGRAM SCHEMATICS & DETAILS

> > FIRE ALARM SYSTEM

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

SHEET DRAWING TITLE SEDIMENT & EROSION CONTROL & REMOVALS PLAN SERVICING PLAN CV.3 GRADING PLAN CV.4 DETAILS

CIVIL DRAWING LIST

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

LANDSCAPE DRAWING LIST

DRAWING TITLE LANDSCAPE PLAN LANDSCAPE DETAILS ONTARIO BUILDING CODE DATA MATRIX PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY OBC REFERENCE [1] THOMAS BROWN ARCHITECTS INC. CITY OF VAUGHAN 7-12 P2104 Name of Project 9541 WESTON ROAD, WOODBRIDGE, ON, L4H 3A5 197 Spadina Avenue, Suite 500 Toronto, ON M5T 2C8 3.00 BUILDING CODE VERSION O.Reg. 762/20 3.01 PROJECT TYPE **New Construction** [A] 1.1.2. 3.1.2.1.(1) 3.02 MAJOR OCCUPANCY CLASSIFICATION OCCUPANCY **Administrative Offices & Fire Station Storage Garage** 3.03 SUPERIMPOSED MAJOR OCCUPANCIES 3.2.2.7. N/A 3.04 BUILDING AREA (m²) DESCRIPTION **EXISTING** NEW TOTAL [A] 1.4.1.2. 845.40 **Ground Floor** TOTAL 845.40 3.05 GROSS AREA (m²) DESCRIPTION **EXISTING** NEW TOTAL [A] 1.4.1.2. **Ground Floor** 916.10 TOTAL 916.10 NEW 3.06 MEZZANINE AREA (m²) DESCRIPTION **EXISTING** TOTAL 3.2.1.1. 70.7 TOTAL 70.7 (m) ABOVE GRADE 3.07 BUILDING HEIGHT STOREYS ABOVE GRADE 14.50 [A] 1.4.1.2. & 3.2.1.1. STOREYS BELOW GRADE 3.08 HIGH BUILDING 3.2.6 3.09 NUMBER OF STREETS/ FIREFIGHTER ACCESS STREET(S 3.2.2.10. & 3.2.5. 3.10 BUILDING CLASSIFICATION Group D, up to 2 Storeys, Sprinklered 3.2.2.20-83. (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY) 3.11 SPRINKLER SYSTEM 3.2.1.5. & **Entire Building** 3.2.2.17. DESCRIBE Sprinkler System is part of Contract scope 3.2.9. 3.12 STANDPIPE SYSTEM Not Required 3.13 FIRE ALARM SYSTEM TYPE PROVIDED 3.2.4. Fire Alarm System provided as part of Contract , WATER SERVICE/ 3.14 SUPPLY IS ADEQUATE 3.15 CONSTRUCTION TYPE 3.2.2.20.-83. RESTRICTIONS ACTUAL HEAVY TIMBER CONSTRUCTION 3.2.1.4. 4.1.2.1.(3), **3.16 IMPORTANCE CATEGORY** Post-Disaste T4.1.2.1.B. 3.17 SEISMIC HAZARD INDEX (IE Fa Sa (0.2)) = Seismic Design Required for Table 4.1.8.18. Items 6 to 21 4.1.8.18.(1) **3.18** REASONING FOR REQUIREMENT Importance Category and Seismic Hazard Index 4.1.8.18.(2) OCCUPANT LOAD 3.19 OCCUPANT LOAD OCCUPANCY TYPE BASED ON LEVEL/AREA (PERSONS) **First Floor TOTAL** 3.20 HAZARDOUS SUBSTANCES 3.3.1.2. & 3.3.1.19. 3.21 REQUIRED FIRE SEPARATIONS Storage Garage Separation Between Group D & F3 3.3.4.3 **Janitor's Closet** 3.6.1.20 3.3.4.3 3.6.2.1 Mechanical Room (Service Room) Electrical Room (Service Room) 3.6.2.1 I.T Room (Service Room) 3.6.2.1 3.6.2.1 Sprinkler Room (Service Room) 3.22 REQUIRED FIRE RESISTANCE RATINGS LISTED DESIGN NO. ULC NONCOMBUSTIBLE IN HORIZONTAL ASSEMBLY RATING (H) 3.2.2.20.-83, 3.2.1.4. OR ASSEMBLY SB-2 LIEU OF RATING? FLOORS OVER BSMT **FLOORS** MEZZANINE N/A ROOF LISTED DESIGN NO. ULC NONCOMBUSTIBLE IN SUPPORT ASSEMBLY RATING (H) OR ASSEMBLY SB-2 LIEU OF RATING? **FLOORS** YES MEZZANINE ROOF EBF AREA 3.23 SPATIAL SEPARATION WALL L/H OR H/L REQUIRED FRR CONSTRUCTION TYPE CLADDING TYPE Combination Combination Combination Combination Combination Permitted Max. Listed Design or Description % of Openings 23.00 100.00% 12.93% 31.00 16.00 100.00% 16.90% 13.33% 3.24 BARRIER-FREE DESIGN 3.8. 3.25 BARRIER-FREE ENTRANCES No. OF ENTRANCES PEDESTRIAN ENTRANCES 3.8.1.2 No. OF ENTRANCES REQ'D TO BE BARRIER FREE 3.8.1.2 3.26 BUILDING EXITS REQUIRED 3.4.2.1 DESCRIPTION PROVIDED **Ground Floor** REQUIRED 3.27 LOCATION OF EXITS OCCUPANCY PROVIDED 3.4.2.5 **Bussiness & Personal Services** 40m Low Hazard Industrial 3.28 PLUMBING FIXTURE REQUIREMENTS RATIO: MALE:FEMALE = 50:50 EXCEPT AS NOTED OTHERWISE 3.7.4. OBC SENTENCE FIXTURES REQUIRED FIXTURES PROVIDED LEVEL/AREA **First Floor Male** First Floor Female 3.29 ENERGY EFFICIENCY ASHRAE 90.1-2013 +SB10 Division 3 Chapter 2 COMPLIANCE PATH: CLIMATIC ZONE: 3.30 BUILDING ENVELOPE DESCRIPTION REQUIRED PROVIDED SB 10 ROOF, ENITERLY ABOVE DECK: REQUIREMENTS 5.5-7 R-66.9, R-65.3 WALLS ABOVE GRADE, MASS: 5.5-7 R-41.8, R-45, R-41.4 5.5-7 WALLS ABOVE GRADE, STEEL FRAMED: 5.5-7 SLAB-ON-GRADE (UNHEATED) R-15 for 48in R-15.8, R-16.4 **3.31** NOTES ALL REFERENCES ARE TO DIVISION B OF THE OBC UNLESS PRECEDED BY [A] FOR DIVISION A AND [C] FOR DIVISION C

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

ISSUE OR REVISION SITE PLAN SUBMISSION 1 SPA RE-SUBMISSION 2022-08-30 2023-08-30 SPA - REVISION ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A T24-253 - IFT

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

THOMASBROWNARCHITECTS

PROFESSIONAL SEAL

DRAWING INDEX & **OBC MATRIX**

2021-11-24 VL/BG DWG STATUS : TENDER PROJECT No. REVISION

	ABBREVIATION LIST		ABBREVIATION LIST		ABBREVIATION LIST		ABBREVIATION LIST
ABBREV.	WORD	ABBREV.	WORD	ABBREV.	WORD	ABBREV.	WORD
4		F		M.P	METAL PLATE		
k	AND	F.A	FIRE ALARM	MAINT	MAINTENANCE	S	
<u>)</u>	AT	FAPS	FIRE ALARM PULL STATION	MAS	MASONRY	S.	SOUTH
.F.F	ABOVE FINISH FLOOR	FD	FLOOR DRAIN	MAX	MAXIMUM	S.C.S.	SOLID CORE STEEL
L	ALUMINIUM	FDN	FOUNDATION	MECH	MECHANICAL	S.C.W.	SOLID CORE WOOD
RCH	ARCHITECTURAL			MED	MEDIUM	S.M.	SHEET METAL
		FE	FIRE EXTINGUISHER		MANUFACTURING		SANITARY NAPKIN DISPENSER
TC	ACOUSTIC TILE CEILING	FEC	FIRE EXTINGUISHER CABINET	MFG		S.N.D.	
UTO	AUTOMATIC	FHC	FIRE HOSE CABINET	MFR	MANUFACTURER	S.P.	STEEL PLATE
		FIN	FINISH	MI	MIRROR	S.S.	STAINLESS STEEL
3		FLR	FLOOR	MIN	MINIMUM	S.SK.	SERVICE SINK
3.0	BOTTOM OF	FRR	FIRE RESISTANCE RATING	MISC	MISCELLANEOUS	S.T.C.	SOUND TRANSMISSION CLASS
3/W	BETWEEN	FRS	FIRE ROUTE SIGN	MM	MILLIMETER	SC(OT)	SCUPPER - OVERFLOW TYPE
BAB	ROOF ANCHOR - BOLT AROUND BEAM	FT	FEET.FOOT	MTC COORD	MULTIPLE TRADE COORDINATION REQUIRED	SCHED.	SCHEDULE
			,	MTD	MOUNTED	SECT.	SECTION
SD	BOARD	FTG	FOOTING				
BF	BARRIER FREE			MTL	METAL	SER.	SERVICE
BIT	BITUMINOUS	G		MWLLBD(L)	MURPHY WALL BED - LATERAL	SH.	SHOWER
LDG	BUILDING	G.W.B	GYPSUM WALL BOARD	MWLLBD(V)	MURPHY WALLBED - VERTICAL	SHLV.	SHELVING
BLKG	BLOCKING	GA	GAUGE			SIM.	SIMILAR
BS	BLACK-OUT WINDOW SHADE	GALV	GALVANIZED	N		SPEC.	SPECIFICATION
_		GL	GLAZING	N	NORTH	SQ.	SQUARE
				N.S	NON-SLIP	SQ.FT.	SQUARE FEET, SQUARE FOOT
) 	CONODETE DI COMMINI	GND	GROUND				
C.B.U	CONCRETE BLOCK UNIT	GR	GRADE	N.T.S	NOT TO SCALE	SSUR	SOLID SURFACING (MATERIAL)
C.L.	CENTERLINE	GYP	GYPSUM BOARD	NFWH	NON-FREEZE WALL HYDRANT	SSUR(IS)	SOLID SURFACE (MATERIAL) FOR ISLAND
C.M.U	CONCRETE MASONRY UNIT			NIC	NOT IN CONTARCT		COUNTERTOPS
C/W	COMPLETE WITH	Н		NO	NUMBER	SSUR(WS)	SOLID SURFACE (MATERIAL) FOR WINDOW SILL
CA ITEM	CASH ALLOWANCE ITEM	H.S.P	HOSE STAND PIPE			STA.	STANDARD
CAB	CABINET	H.V.A.C	HEATING, VENTILATION, AIR CONDITIONING	0		STD.	STATION
CHAN				O.C.	ON CENTER	STL.	STEEL
	CHANNEL	HB	HOSE BIB			STOR.	STORAGE
:L	CLOSET	HD	HAND DRYER	O.D.	OUTSIDE DIAMETER		
CLG	CEILING	HDA	HEAVY DUTY ASPHALT	OH.	OVERHEAD	STRUCT.	STRUCTURAL
NTR	COUNTER	HDW	HARDWARE	OPG.	OPENING	SUSP.	SUSPENDED
COL	COLUMN	HLR	HORIZONTAL LIFELINE FALL PROTECTION SYSTEM -	OPP.	OPPOSITE	SYS.	SYSTEM
CONC	CONCRETE		ROOF MOUNTED	ORN.	ORNAMENTAL		
CONST	CONSTRUCTION	HLW	HORIZONTAL LIFELINE FALL PROTECTION SYSTEM	OZ.	OUNCE	Т	
CONT	CONTINUOUS		-WALL MOUNTED	02.	001102	T.&G.	TONGUE AND GROVE
		НМ	HOLLOW METAL	Б		T.T.D.	TOILET TISSUE DISPENSER
CONTR	CONTRACTOR	HORIZ	HORIZONTAL	P			
ORR	CORRIDOR			P.B.	PUSH BUTTON	T.T.H.	TOILET TISSUE HOLDER
PT	CARPET	HR	HOUR	P.C.	PRECAST	T/O	TOP OF
CR	CARD READER	HT	HEIGHT	P.P.	PUSH PLATE	TEL.	TELEPHONE
СТ	CERAMIC FLOOR TILE			P.T.D.	PAPER TOWEL DISPENSER	TEMP.	TEMPERARTURE
CTB	CERAMIC TILE BASE	I		PAR.	PARALLEL	THR.	THRESHOLD
CWT	CERAMIC WALL TILE	I.D	INSIDE DIAMETER	PART	PARTITION	THRU.	THROUGH
, V V I	CERAIVIIC WALL TILE	IN	INCH.INCHES			TOFM	TOILET - FLOOR MOUNTED
		INFO	INFORMATION	PER.	PERIMETER	TOWM	TOILET - WALL MOUNTED
)				PERP.	PERPENDICULAR		
).F	DRINKING FOUNTAIN	INSUL	INSULATION	PL.	PLATE	TV.	TELEVISION
0.0	DOOR OPERATOR	INT	INTERIOR	PLAM.	PLASTIC LAMINATE	TYP.	TYPICAL
ET	DETAIL			PLF.	PLATFORM		
)IA	DIAMETER	J		PNL.	PANEL	U	
	DIMENSION	J.C	JANITOR CLOSET	PNT	PAINT	U.L.C.	UNDERWRITERS' LABORATORIES CANADA
MIC		JT	JOINT		PAIR	U.N.O.	UNLESS NOTED OTHERWISE
N	DOWN			PR.		U.O.S.	UNLESS OTHERWISE SPECIFIED
)R	DOOR	V		PREFAB	PREFABRICATED		
)S	DOWNSPOUT	K	1//01/ 51 475	PRFN	PRE-FINISHED	U.S.S.	UNDER SIDE OF STRUCTURE
WG	DRAWING	K.P	KICK PLATE	PT	PORCELAIN TILE	UNFIN.	UNFINISHED
OWR	DRAWER			PTL	PUSH TO LOCK	UR.	URINAL
		L		PVC.	POLYVINYLCHLORIDE		
:		L.F	LINEAR FOOT		. 23 25. /201 (152	V	
	FACT	L.H	LEFT HAND	0		V.C.T.	VINYL COMPOSITE TILE
	EAST	L.P	LOW POINT	Q	OUADTED	V.C.1. V.P.	VENT PIPE
i.W	EACH WAY			QTR.	QUARTER		
FG	ENTRANCE FLOOR GRILLE	LAM	LAMINATE	QTY.	QUANTITY	VEST.	VESTIBULE
L	ELEVATION	LAV	LAVATORY			VIF.	VERIFY
LECT	ELECTRICAL	LDA	LIGHT DUTY ASPHALT	R			
LEV	ELEVATOR	LINO	LINOLEUM	R.	RADIUS	W	
MER	EMERGENCY	LKR	LOCKER	R.D.	ROOF DRAIN	W.	WEST
		LNT	LINTEL			W.C.	WATER CLOSET
NCL	ENCLOSURE ENTRY	LRG	LARGE	R.H.	RIGHT HAND	W.M.	WIRE MESH
NTR	ENTRANCE, ENTRY			R.O.	ROUGH OPENING		
:Q	EQUAL	LVL	LEVEL	R.W.	RAIN WATER	W.O.	WINDOW OPENING
QUIP	EQUIPMENT	LVR	LOUVER	RCA	REINFORCED CONCRETE APRON	W.W.F.	WELDED WIRE FABRIC
S	ELECTRIC STRIKE	LVR.O	LOUVER OPENING	REF.	REFRIGERATOR	W/	WITH
XIST	EXISTING			REQ'D	REQUIRED	W/O	WITHOUT
		М				WD.	WOOD
XP	EXPOSED	M	METER	RES.	RESIDENTIAL	WRGBB	WATER RESISTENT GYPSUM BACKING BOARD
XT	EXTERIOR			REX	REQUEST TO EXIT		
		M.O	MASONRY OPENING	RM.	ROOM	WS	WINDOW SHADE
				RSL	RESILIENT	WT	WALL TILE

TAG	DESCRIPTION	QUANTITY
LSX250	Solar Panel	221
LSX250	Solar Panel	46
ACCESS CORRIDOR		
WB-2	WHITEBOARD	2
CG-T1	CORNER GUARD	8
APPARATUS BAY		
CR	CORD REEL	2
LSX250	Solar Panel	50
LSX250	Solar Panel	2
EW	EYE WASH (FOOT OPERATED)	
HR	HOSE REEL - WALL MOUNTED	1
BUNKER GEAR		
BG24	TURNOUT GEAR LOCKERS - 24" WIDTH	24
CAPTAINS OFFICE		
CG-T1	CORNER GUARD	2
L	LOCKERS AS SPECIFIED (REFER TO DRAWINGS FOR LAYOUT)	5
WSBO	WINDOW SHADE c/w BLACKOUT SHADE	1
CREW LOUNGE		
CG-T2	CORNER GUARD (WRAP AROUND)	1
CG-T1	CORNER GUARD	1
WS	WINDOW SHADE	3
DINING AREA		
CG-T1	CORNER GUARD	2
WS	WINDOW SHADE	2
DORMITORY		
CG-T1	CORNER GUARD	5
СН	COAT HOOK	20
EXERCISE ROOM		
MI	FLAT MIRROR	5
WS	WINDOW SHADE	6
KITCHEN		
CG-T1	CORNER GUARD	2
WS ST-E(I)	WINDOW SHADE 30" ELECTRIC STOVE - REFER TO SPECS	<u> </u>

	SPECIFIED ITEMS (BY LOCATION)	
TAG	DESCRIPTION	QUANTITY
_OCKER ROOM		
CG-T1	CORNER GUARD	5
L	LOCKERS AS SPECIFIED (REFER TO DRAWINGS FOR LAYOUT)	23
MECHANICAL		
LSX250	Solar Panel	14
RECEPTION		
CG-T1	CORNER GUARD	1
WS	WINDOW SHADE	1
SECURITY & I.T		
LSX250	Solar Panel	1
TRAINING ROOM		
WB-2	WHITEBOARD	2
CG-T1	CORNER GUARD	4
WS	WINDOW SHADE	2
JNIVERSAL WASHROOM	FLATAUDDOD.	
MI	FLAT MIRROR	1
RSS	B-5191 FOLDABLE SHOWER SEAT	1
SN B-295x18	B-270 SANITARY NAPKIN DISPOSAL SURFACE MOUNTED STAINLESS STEEL SHELF	1
b-295X16 СН	COAT HOOK	1 2
GBR(L)	B-5806.99x40	2
GBR(L) GBR(M)	B-5806.99x30	2
GBR+GBR-L SET	GRAB BAR SET (1 STRAIGHT + 1 L-SHAPED)	1
SC+R	SHOWER CURTAIN	<u>'</u> 1
SD	B-4112 SOAP DISPENSER	1
WASHROOM & SHOWER		
PTWR	PAPER TOWEL DISPENSER B-3942	3
TTDJ	B-2892 SURFACE MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER	3
MI	FLAT MIRROR	3
RSS	B-5191 FOLDABLE SHOWER SEAT	3
SN	B-270 SANITARY NAPKIN DISPOSAL	3
CH	COAT HOOK	6
RSPH	RECESSED SHOWER NICHE BY ZITTA OR EQV. SATIN STAINLESS STEEL 12X16	1
	SHOWER CURTAIN	3
SC+R		

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A13.3	Division 6 - Wood and Plastics	6-0001 - MW - K - 2DRPANTRY
A13.3 A13.3	Division 6 - Wood and Plastics Division 6 - Wood and Plastics	6-0001 - MW - K - 2DRPANTRY KITCHEN 6-0001 - MW - K - 2DRSNK
A13.3	Division 6 - Wood and Plastics	6-0001 - MW - K - 3DWR
A13.3	Division 6 - Wood and Plastics	6-0001 - MW - K - DSPNCH
A13.3	Division 6 - Wood and Plastics	6-0001 - MW - O - RNWY
A13.3	Division 6 - Wood and Plastics	6-0002 - COUNTERTOP - SELECT DETAIL
A13.3 A13.3	Division 6 - Wood and Plastics Division 6 - Wood and Plastics	6-0002 - HOCKEY BOARD DETAIL 6-0007 - MURPHY WALLBED AND CABINET - LATERAL
	nal and Moisture Protection	0-0007 - INIONFITT WALLBED AND CABINET - LATENAL
A4.1	Division 7 - Thermal and Moisture Protection	7-0001 - VRA-1 - VRA ROOF DETAILS
A4.1	Division 7 - Thermal and Moisture Protection	7-0002 - VRA-2 - ROOF PAVER DETAIL
A4.1	Division 7 - Thermal and Moisture Protection	7-0007 - SCPR-1 - OVERFLOW TYPE
A4.1	Division 7 - Thermal and Moisture Protection	7-0012 - REJ-2 ROOF EXPANSION JOINT DETAILS - TORCH DOWN
A4.1	Division 7 - Thermal and Moisture Protection	7-0015 - ROOF DRAIN SUMP
A4.1 A8.1	Division 7 - Thermal and Moisture Protection Division 7 - Thermal and Moisture Protection	7-0052 - AB-3 - ROOF TO WALL DETAIL (FRAMED UPSTAND) 7-0050 - AB-1 - AIR BARRIER DETAILS
A9.2	Division 7 - Thermal and Moisture Protection	7-0012 - HOSE TOWER - ROOF DETAIL
A9.2	Division 7 - Thermal and Moisture Protection	7-0012 - HOSE TOWER - OUTSIDE CORNER
A9.2	Division 7 - Thermal and Moisture Protection	7-0012 - ROOF - HOSE TOWER BASE DETAIL
A9.2	Division 7 - Thermal and Moisture Protection	7-0012 - ROOF - HOSE TOWER BASE DETAIL 2
Division 8 - Open A3.7	ings Division 8 - Openings	8-0001 - FFD-1 - FOUR FOLD DOOR DETAILS
A3.7 A13.5	Division 8 - Openings	8-0043 - SLIDING DOOR SCHEMATIC
A13.5	Division 8 - Openings	8-0043 - SLIDING DOOR DETAIL
Division 9 - Finish		0.0000 TD FD 4 TVD/C41 F1 0.00 DF1 111 01 15 01 15 15 15 15 15 15 15 15 15 15 15 15 15
A3.2 A3.2	Division 9 - Finishes	9-0008 - TD-FD-1 - TYPICAL FLOOR DRAIN - SLAB ON GRADE 9-0008.1 - TD-SD-1 - TYPICAL SHOWER DRAIN - SLAB ON GRADE
A3.2 A10.1	Division 9 - Finishes Division 9 - Finishes	9-0014 - PAINT FINISHES
A10.1	Division 9 - Finishes	9-0006 - TD-1 - TYPICAL TILE DETAILS - THINSET (WALL + FLOOR)
A10.2	Division 9 - Finishes	9-0250 - DRYWALL DETAIL
A12.2	Division 9 - Finishes	9-0008 - TD-FD-1 - TYPICAL FLOOR DRAIN - SLAB ON GRADE NO SLOPE
A12.2	Division 9 - Finishes	9-0008 - TD-FD-1 - TYPICAL FLOOR DRAIN - SLAB ON GRADE SHOWER
Division 10 - Spe		40.00E2 FOR 4 HNIVEROAL WARLINGONS
A0.3 A3.2	Division 10 - Specialties Division 10 - Specialties	10-0052 - ECS-1 - UNIVERSAL WASHROOMS 10-0001 - TD-1 - TRENCH DRAIN DETAIL
A3.2 A5.1	Division 10 - Specialties Division 10 - Specialties	10-0001 - 1D-1 - TRENCH DRAIN DETAIL 10-0040 - BUILDING SIGN DETAILS (EXTERIOR)
A10.1	Division 10 - Specialties	10-0050 - IS-INTERIOR SIGNS
A11.1	Division 10 - Specialties	10-0012.1 - LKRTR-1 LOCKER TRIM (METAL FASCIA)
A12.2	Division 10 - Specialties	10-0006 - SCR-1 - SHOWER CURTAIN ROD AND HOOK
Division 11 - Equi		11 0002 IWS 1 INCOMING WATER SERVICE
A2.9 A2.9	Division 11 - Equipment Division 11 - Equipment	11-0003 - IWS-1 - INCOMING WATER SERVICE 11-0007 - GD-2 - GENERATOR DETAIL (EXTERIOR)
A2.9 A3.7	Division 11 - Equipment Division 11 - Equipment	11-0007 - GD-2 - GENERATOR DETAIL (EXTERIOR) 11-0005 - CR-1 - CORD REEL DETAILS
A13.3	Division 11 - Equipment	11-0004 - CHST - CHARGING STATION
Division 12 - Furn		40,0000, 50,451,005,147
A10.2 A10.2	Division 12 - Furnishings Division 12 - Furnishings	12-0002 - FG-1 FLOOR MAT 12-0004 - SSUR(SILL) - SOUD SURFACE SILL DETAIL
A10.2 A11.1	Division 12 - Furnishings Division 12 - Furnishings	12-0004 - SSUR(SILL) - SOLID SURFACE SILL DETAIL 12-0001 - WS-1 WINDOW SHADES

DETAIL VIEW NAME

SHEET NUMBER DIVISION

Division 0 - Schedules

Division 0 - Schedules

Division 0 - Schedules

Division 1 - Generic Details

Division 1 - Generic Details

Division 1 - Generic Details

Division 2 - Site Construction

Division 0 - Schedules

Division 0 - Schedules

A0.3

A0.3

A13.6

A6.2

A6.2

A13.5

A2.2

A2.2

A2.7

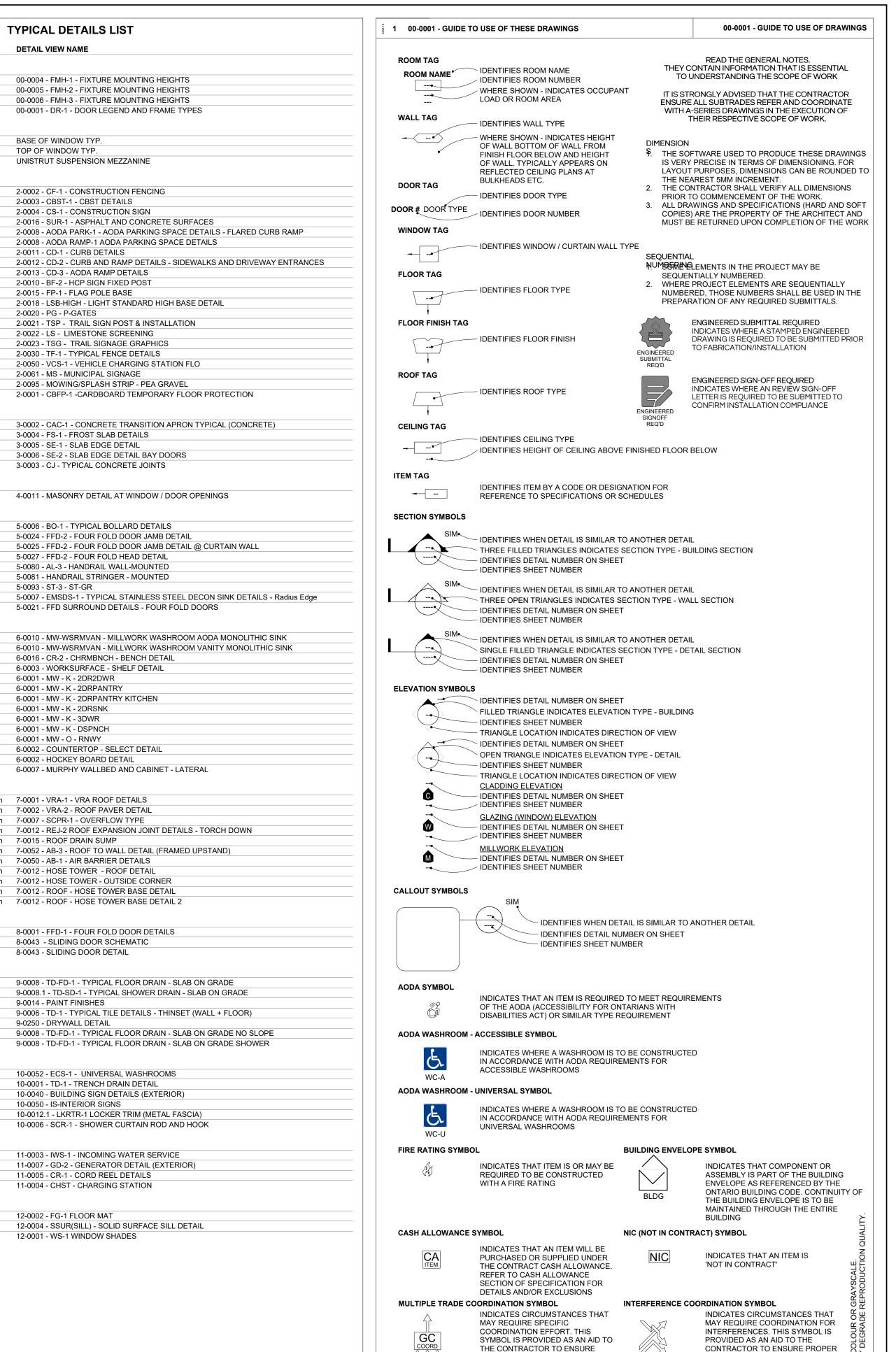
A2.9 A2.9

A2.9

A2.9

Division 1 - Generic Details

Division 2 - Site Construction



PROPER EXECUTION OF THE WORK

DICTATE MEANS OR METHODS OF

INDICATES THE LOCATION OF SITE

ENTRANCES DURING CONSTRUCTION.

IN NO WAY IS IT INTENDED TO

INDICATES THE LOCATION

OF BUILDING ENTRANCES.

OFTEN CODE-RELATED

BY SUBTRADES

EXECUTION

BUILDING ENTRANCE SYMBOL

SITE ACCESS SYMBOL

SITE ACCESS



ISSUE OR REVISION ISSUED FOR SITE PLAN SUBMISSION 1 2022-05-31 SPA RE-SUBMISSION 2022-08-30 SPA - REVISION 2023-08-30 ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 T24-253 - IFT 2024-04-15



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PROFESSIONAL SEAL

GUIDE TO USE OF DRAWINGS, TYPICAL DETAIL LIST,

ABBREVIATIONS

2021-11-24 DWG STATUS : TENDER PROJECT No.

EXECUTION OF THE WORK BY

IN NO WAY IS IT INTENDED TO

INDICATES A DRAWING VIEW

THAT HAS BEEN FILTERED OR SIMPLIFIED TO DEMONSTRATE A

RELATIONSHIP. IN NO WAY WILL THESE VIEWS BE USED AS THE BASIS FOR A REDUCTION IN

PARTICULAR DETAIL OR

PROJECT SCOPE

DICTATE MEANS OR METHODS OF

SUBTRADES

EXECUTION

INTERFERENCE

CLARITY SYMBOL



ISSUE OR REVISION

ISSUED FOR SITE PLAN SUBMISSION 1 2022-05-31 SPA RE-SUBMISSION 2022-08-30 2023-08-30 SPA - REVISION ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 T24-253 - IFT 2024-04-15



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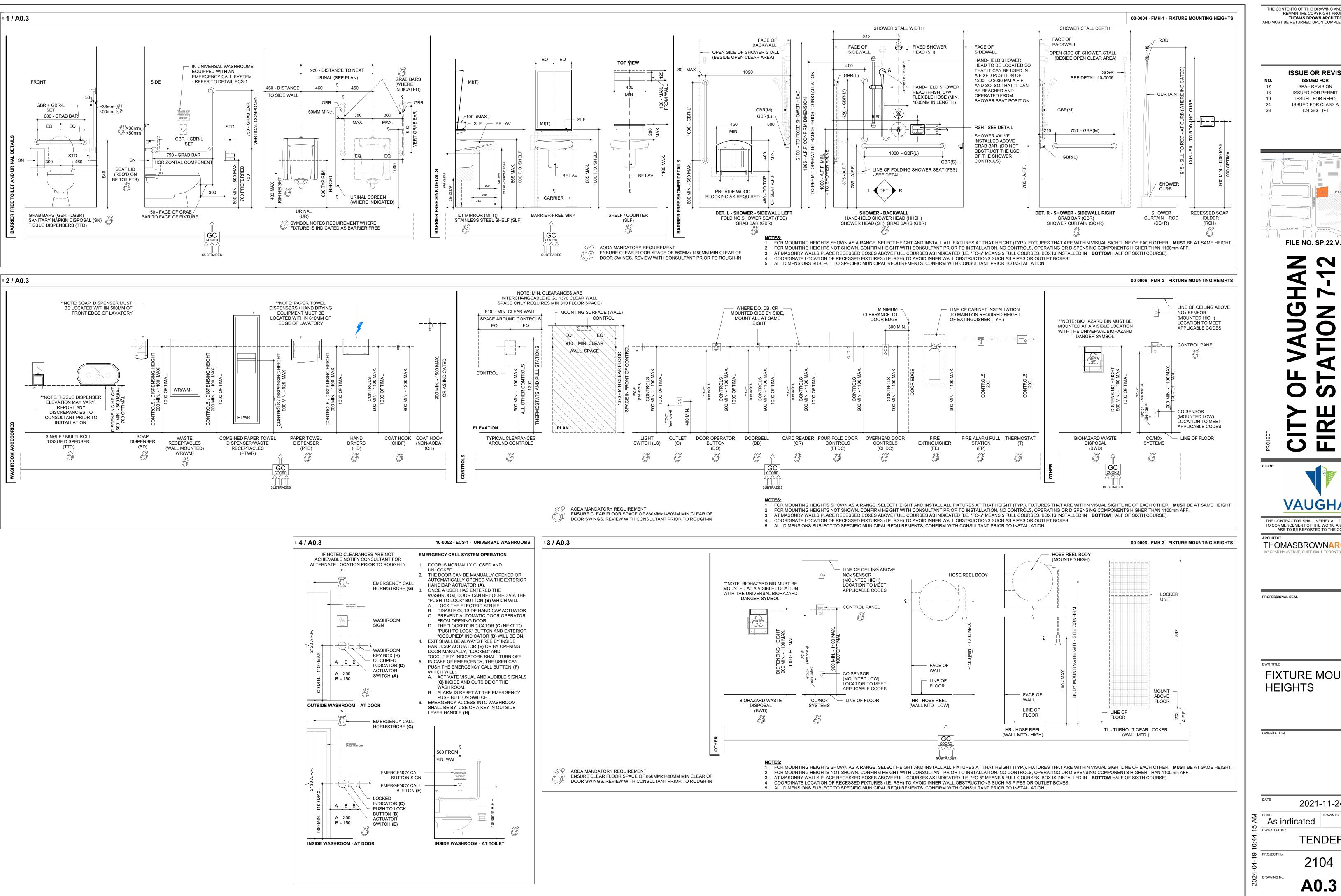
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PROFESSIONAL SEAL

	DATE	2021-	11-24					
2 AM	SCALE 1	: 20	DRAWN BY	RL				
7	DWG STATUS:							
10:44:	TENDER							
2024-04-19 10:44:12 AM	PROJECT No.	21	04					
205	DRAWING No.	A0	.2	REVISION 26				



> **ISSUE OR REVISION ISSUED FOR** SPA - REVISION 2023-08-30 ISSUED FOR PERMIT 2023-09-15

> > 2023-10-19

2024-02-16

2024-04-15

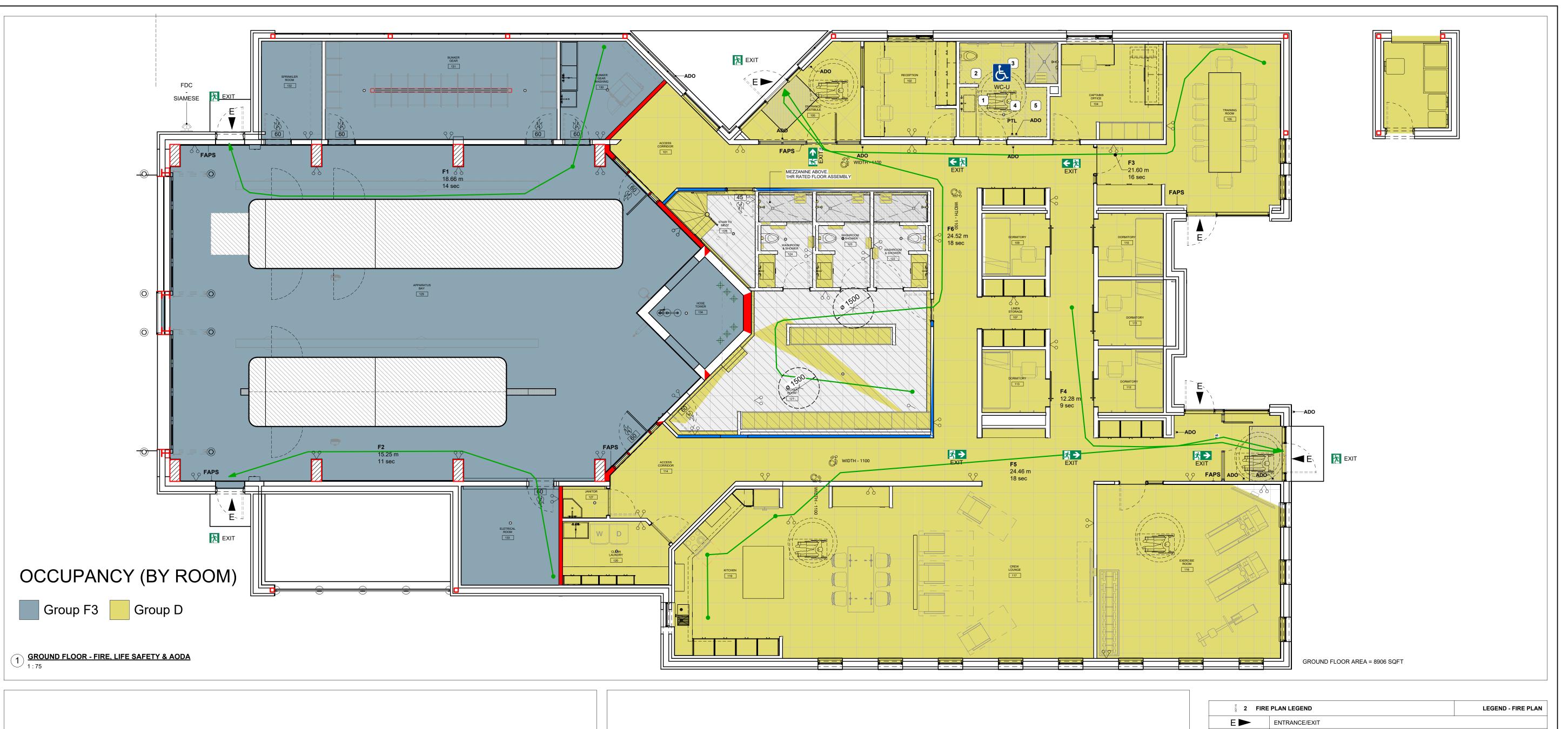
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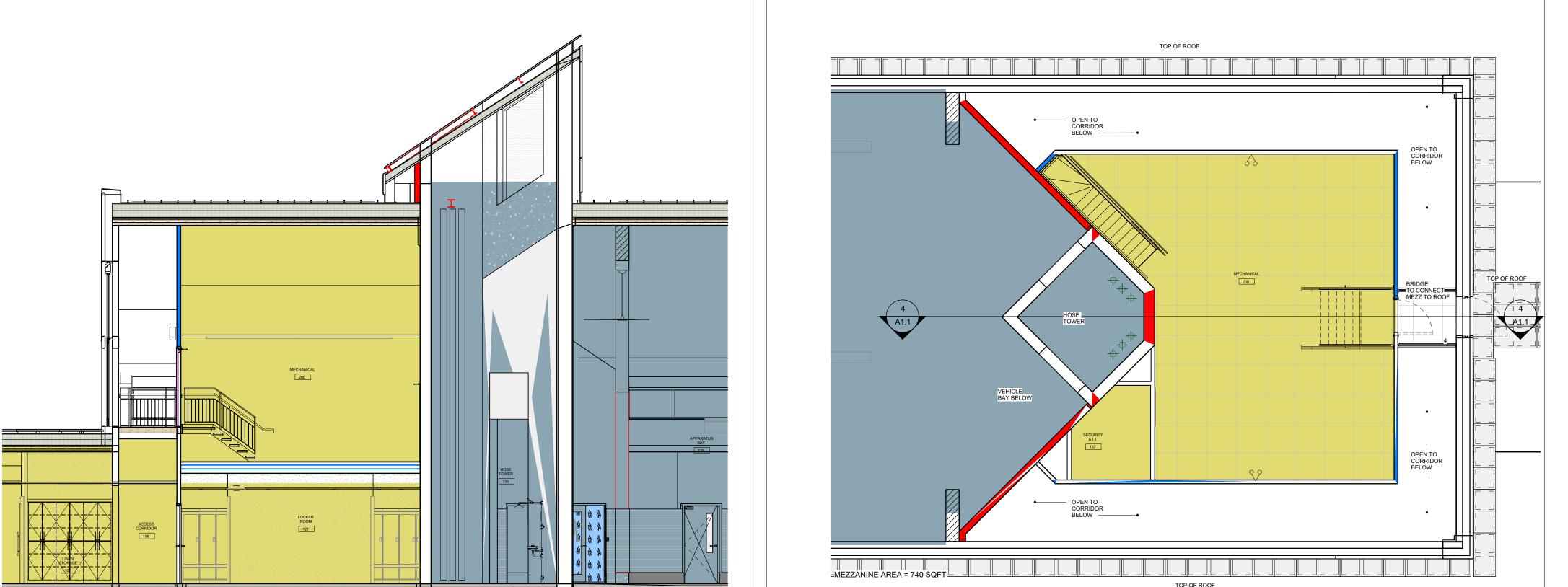
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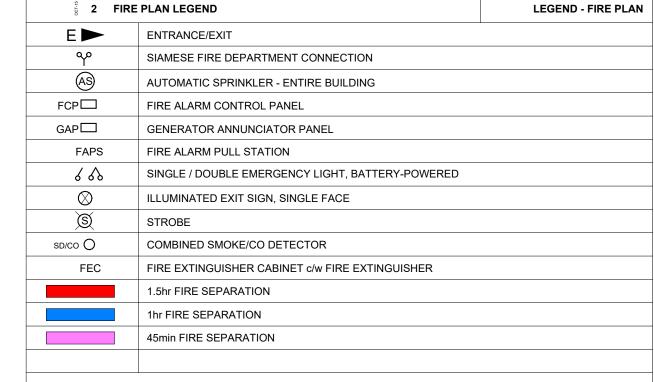
FIXTURE MOUNTING

2021-11-24 As indicated **TENDER**





3 MEZZANINE - FIRE, LIFE SAFETY 1:75



FIRE EXIT TRAVEL DISTANCE								
FROM ROOM	TO ROOM	LEVEL	TAG	TRAVEL	SPEED	TIME		
GROUND FLOOR								
BUNKER GEAR WASHING 130		GROUND FLOOR	F1	18.66 m	4.8 km/h	13.9 s		
ELETRICAL ROOM 133	APPARATUS BAY 129	GROUND FLOOR	F2	15.25 m	4.8 km/h	11.4 9		
TRAINING ROOM 105	ENTRANCE VESTIBULE 100	GROUND FLOOR	F3	21.6 m	4.8 km/h	16.1		
DORMITORY 109		GROUND FLOOR	F4	12.28 m	4.8 km/h	9.2 s		
KITCHEN 119	VESTIBULE 115	GROUND FLOOR	F5	24.46 m	4.8 km/h	18.2		
LOCKER ROOM 121	ENTRANCE VESTIBULE 100	GROUND FLOOR	F6	24.52 m	4.8 km/h	18.3 s		

FIRE & AODA KEY NOTES

_		
	NUMBER	NOTE
	1	920mm x 1370 BARRIER FREE CLEARANCE AT SINK
	_	

900mm x 1500mm BARRIER FREE TRANSFER CLEARANCE 900mm x 1500mm BARRIER FREE CLEAR SPACE AT FRONT OF SHOWER 1800mm TURNING RADIUS

810mm x 1830mm ALLOCATED SPACE FOR BF ADULT CHANGE TABLE (NIC)

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T24-253 - IFT

2024-04-15

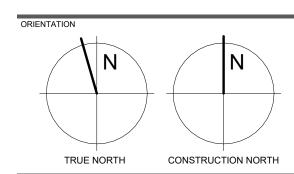
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FIRE, LIFE SAFETY, & AODA REQUIREMENTS



2021-11-24

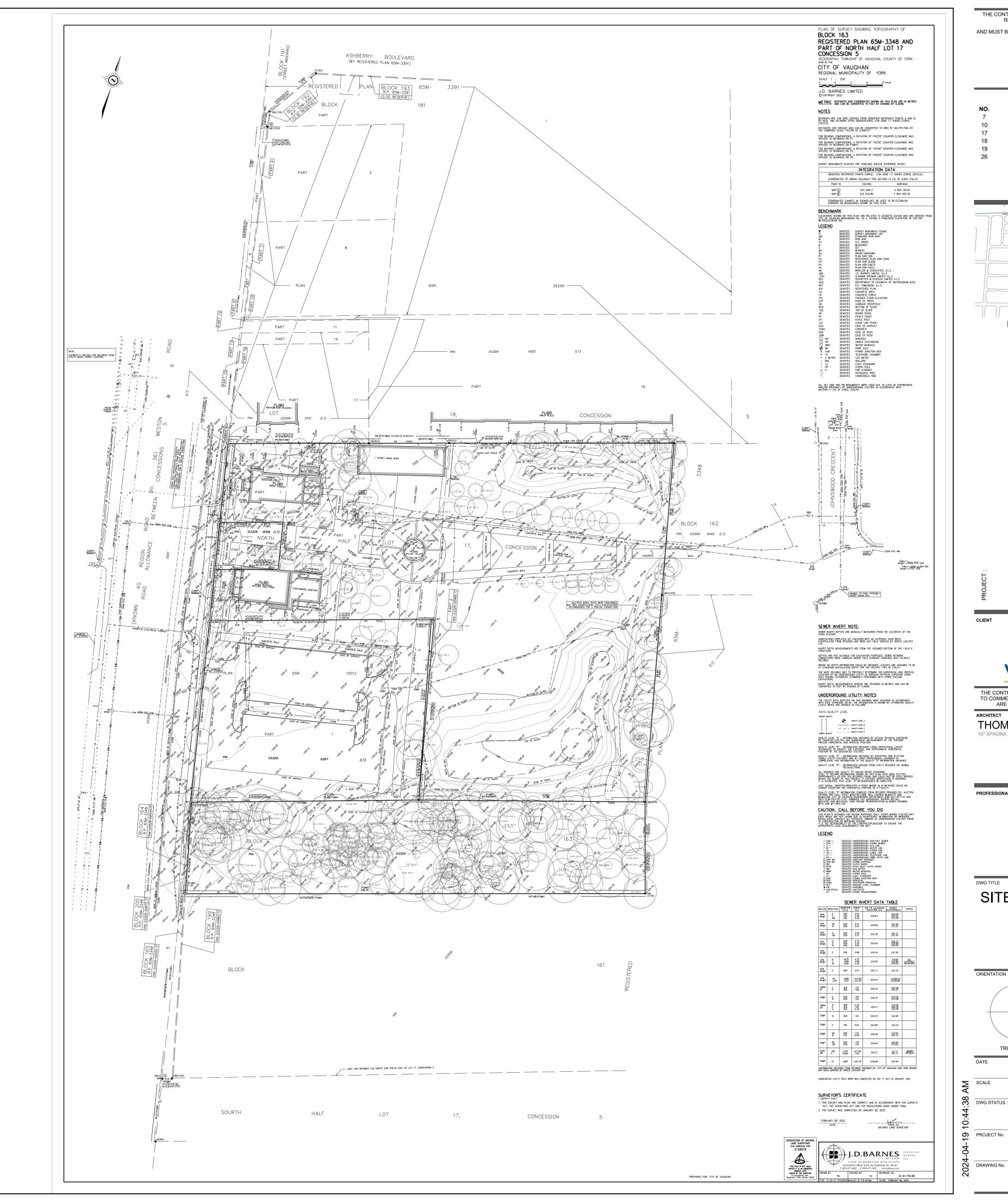
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TENDER

O PROJECT No.

REVISION

4 BUILDING SECTION - FIRE. LIFE SAFETY



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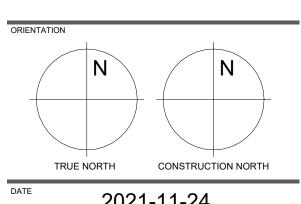


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PROFESSIONAL SEAL

SITE SURVEY



2021-11-24 SCALE

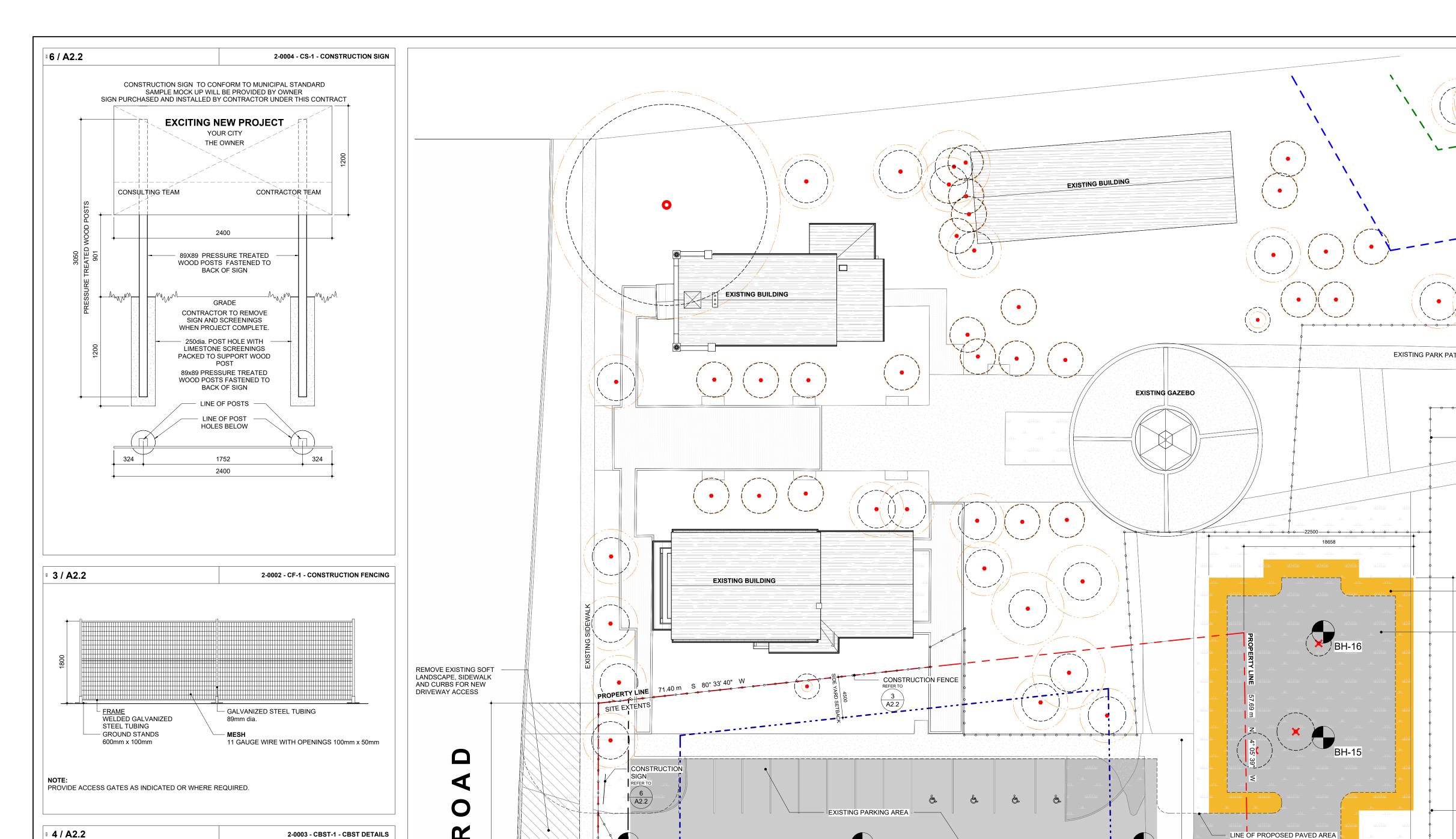
TENDER

2104

A2.1

REVISION

26



— CATCH BASIN LID

- CATCH BASIN WALL

PRECIPITATION EVENT.

CBST IS 1/3 FULL.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL EXISTING BY-LAWS, CODES, MUNICIPAL GOVERNMENTS AND AUTHORITIES HAVING JURISDICTION. OBTAIN ALL PERMITS REQUIRED IN ACCORDANCE WITH THE CONTRACT.

DEMOLITION SCOPE SHOWN IS SCHEMATIC. CAREFUL EXAMINATION OF EXISTING SITE CONDITIONS IS REQUIRED TO DETERMINE FULL SCOPE OF DEMOLITION.

REFER TO SUPPLEMENTAL REPORTS LISTED UNDER SPECIFICATION SECTION - INFORMATION AVAILABLE

WHERE 'COMPLETE' OR 'COMPLETELY' IS ASSOCIATED WITH REMOVALS, THE INTENT IS THAT THE ITEM IS

WHERE AN ITEM IS NOTED FOR REMOVAL THAT HAS ASSOCIATED MECHANICAL OR ELECTRICAL SERVICES,

THESE SERVICES SHALL BE TERMINATED AT AN APPROPRIATE LOCATION AND IN ACCORDANCE WITH ALL

REMOVED IN ITS ENTIRETY INCLUDING ASSOCIATED FITTINGS AND APPURTANCES.

FOR REVIEW TO DETERMINE FULL SCOPE OF DEMOLITION.

APPLICABLE CODES AND REGULATIONS.

å 2 / A2.2

NOTES:

- CBST APRON (TRIM AS REQUIRED)

— CATCH BASIN SEDIMENT TRAP

THAT MAY BE IMPACTED BY THE WORK.

IMMEDIATELY AFTER INSTALLATION.

CBST TO BE INSTALLED IN EXISTING CATCH BASINS

CBST SIZE SELECTION TO BE BASED ON DIMENSIONS OF CATCH BASIN IN WHICH IT IS TO BE INSTALLED. INSTALL PER MANUFACTURERS INSTRUCTIONS

CBST TO BE INSTALLED IN NEW CATCH BASINS

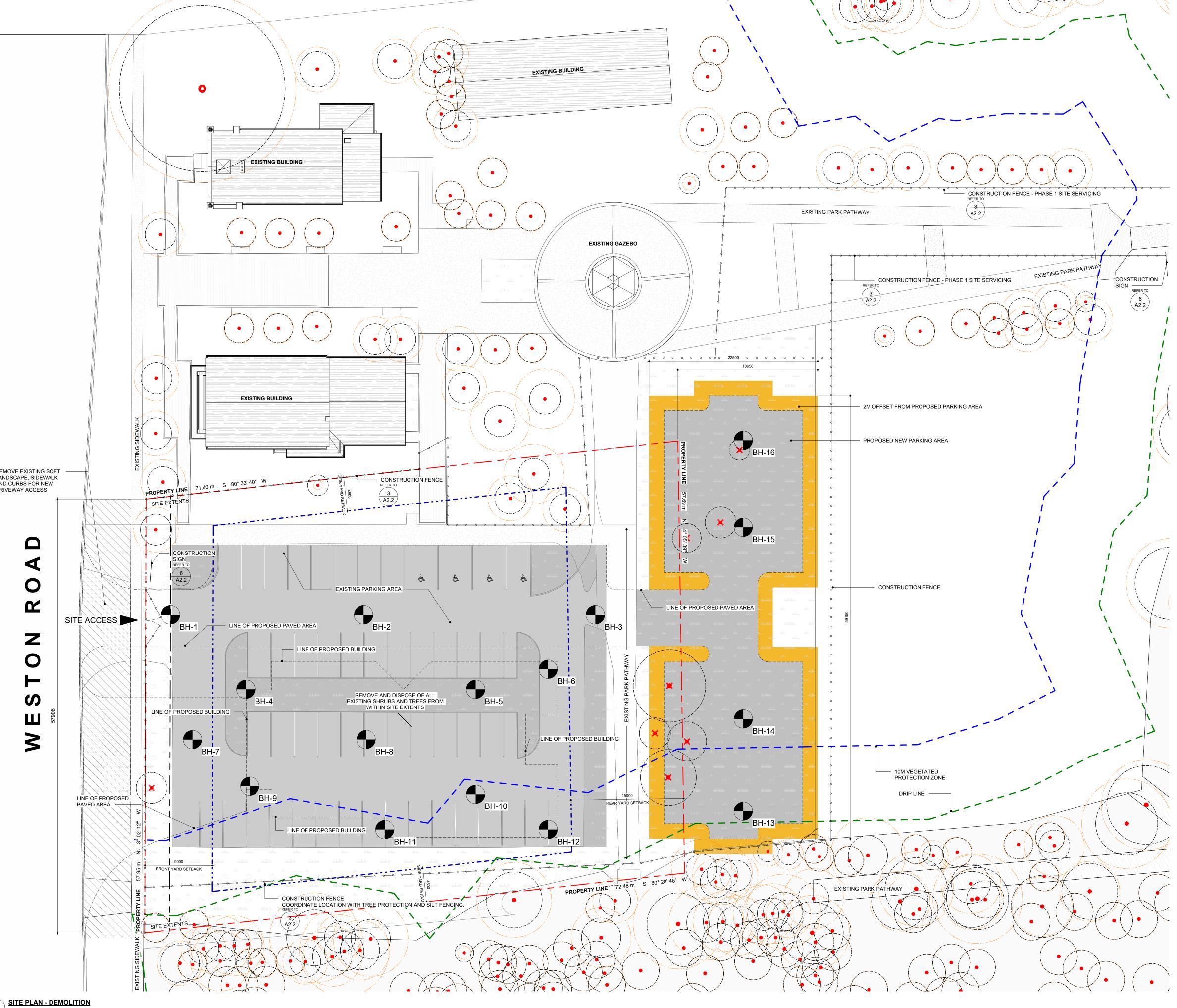
INSTALL CBST AT START OF WORK AND MAINTAIN THROUGH TO PROJECT COMPLETION. INSPECT

REPLACE DAMAGED CBST WITH NEW AS REQUIRED.

A700 GENERAL NOTES -____DEMOLITION __

REGULARLY AND AFTER EVERY SIGNIFICANT

REMOVE ACCUMULATED MATERIAL WHEN



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T24-253 - IFT

2024-04-15

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SITE DEMOLITION, SITE DETAILS

TRUE NORTH CONSTRUCTION NORTH 2021-11-24 As indicated

TENDER PROJECT No.



> **ISSUE OR REVISION** ISSUED FOR SITE PLAN SUBMISSION 1 2022-05-31 2022-08-30 SPA RE-SUBMISSION MINOR VARIANCE 2022-12-09 2022-12-20 2022 UPDATE ROAD WIDENING - CLIENT REVIEW 2023-07-19 SPA - REVISION 2023-08-30 ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 CLIENT REVIEW - 100% 2024-03-12

> > T24-253 - IFT

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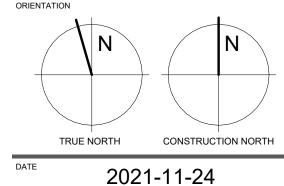
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197 SPADINA AVENUE. SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

TREE INVENTORY/

REMOVAL/ **PRESERVATION** PLAN



2021-11-24

1:250 DWG STATUS :

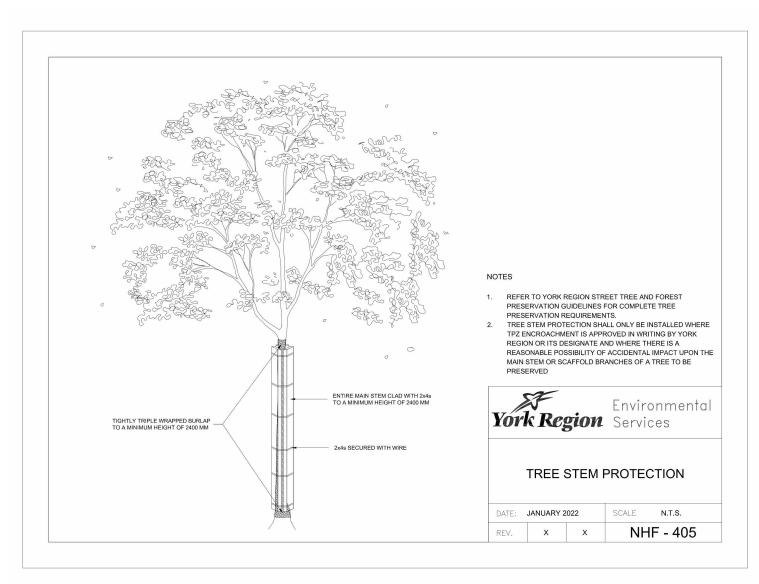
TENDER

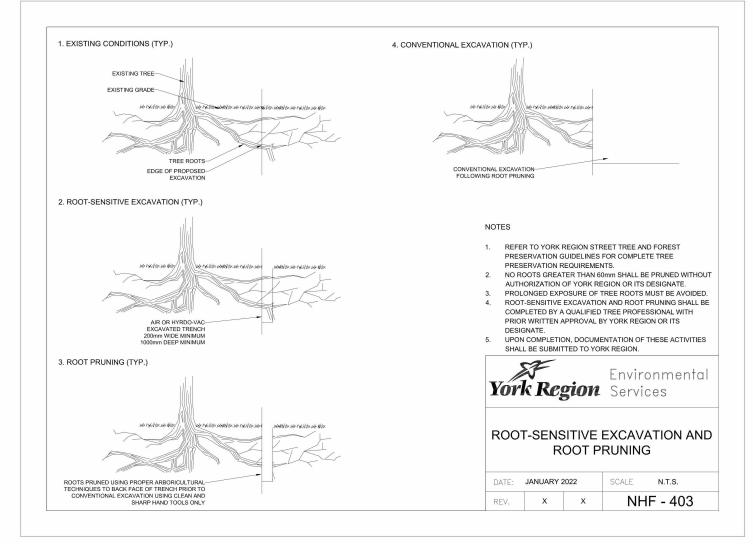
2104

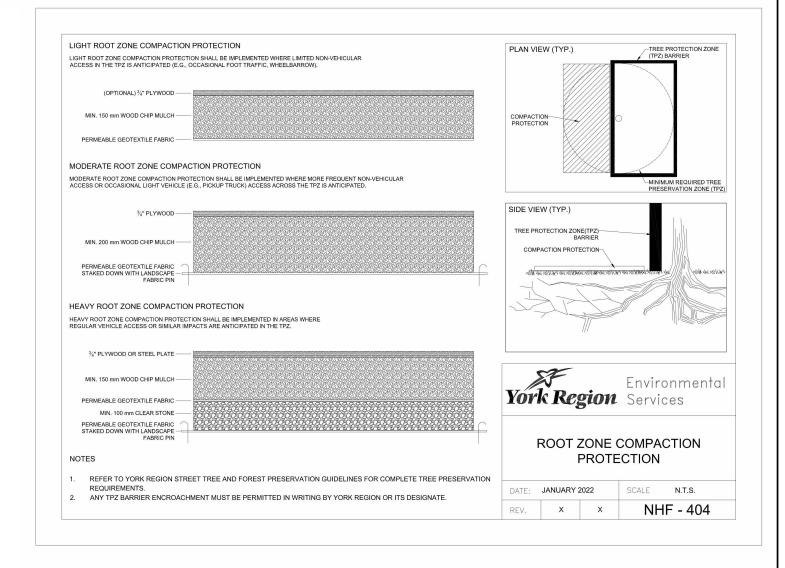
A2.3

PROJECT No.

	TREE IN	VENTORY & ACTION	ON REQUIRED BY CONTRACTOR			TREE INVENT	ORY & ACTIO	N REQUIRED BY CONTRACTOR
TREE # SPECIES	DBH (cm) DIAMETE	ER (m) CONDITION	ACTION REQUIRED BY CONTRACTOR	TREE # SPECI	IES DBH (d	m) DIAMETER (m)	CONDITION	ACTION REQUIRED BY CONTRACTOR
56 BLUE SPRUCE	7.0 1	GOOD	EXISTING TREE TO REMAIN	40 FUDO	ADEAN DEFOU	4	COOD	CONTRACTOR TO REMOVE AND DISPOSE OF TREE CTUMP AND DOOT SYSTEM DRILL COOM
57 SILVER MAPLE	180 12		EXISTING TREE TO REMAIN		PEAN BEECH 17 O REMOVE AND DISPOSE OF TR		GOOD	CONTRACTOR TO REMOVE AND DISPOSE OF TREE, STUMP AND ROOT SYSTEM, DBH <20CM
58 LITTLE LEAF LINDEN 59 LITTLE LEAF LINDEN	23 3	GOOD	EXISTING TREE TO REMAIN	CONTRACTOR I	O REMOVE AND DISPOSE OF TH	REE, STUMP AND RU	JI 3131EW, DBH <20	ICIVI. I
60 MANITOBA MAPLE	26 3 20 4	GOOD GOOD	EXISTING TREE TO REMAIN EXISTING TREE TO REMAIN	178 NORW	VAY MAPLE 25	2	POTENTIAL TROUBLE	E CONTRACTOR TO REMOVE AND DISPOSE OF TREE, STUMP AND ROOT SYSTEM, DBH >20CM
61 MANITOBA MAPLE	11 2	GOOD	EXISTING TREE TO REMAIN EXISTING TREE TO REMAIN		O REMOVE AND DISPOSE OF TR			· · · · · · · · · · · · · · · · · · ·
62 WHITE PINE	25 3	GOOD	EXISTING TREE TO REMAIN	- CONTINUE TO INTE	O NEW OVE 7 NV BIOLOGE OF TH	CLL, CTOWN 7110 TO	51 6161EW, BB11-20	On. 1
63 UNKNOWN	15 2	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 15	1	GOOD	EXISTING TREE TO REMAIN
64 WHITE SPRUCE	22 2	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 17		GOOD	EXISTING TREE TO REMAIN
65 WHITE SPRUCE	20 2	GOOD	EXISTING TREE TO REMAIN	4 EURO	PEAN BEECH 18	2	GOOD	EXISTING TREE TO REMAIN
66 WHITE SPRUCE	29 3	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 17	2	GOOD	EXISTING TREE TO REMAIN
67 CRABAPPLE	23 3	GOOD	EXISTING TREE TO REMAIN	6 EURO	PEAN BEECH 17	2	GOOD	EXISTING TREE TO REMAIN
68 CRABAPPLE	18 3	GOOD	EXISTING TREE TO REMAIN	7 EURO	PEAN BEECH 16	3	GOOD	EXISTING TREE TO REMAIN
69 ELM	14 2	GOOD	EXISTING TREE TO REMAIN	8 EURO	PEAN BEECH 16	3	GOOD	EXISTING TREE TO REMAIN
70 ELM	13 2	GOOD	EXISTING TREE TO REMAIN	9 EURO	PEAN BEECH 18	3	GOOD	EXISTING TREE TO REMAIN
71 ELM	15 2	GOOD	EXISTING TREE TO REMAIN	10 EURO	PEAN BEECH 10	1	GOOD	EXISTING TREE TO REMAIN
74 BLUE SPRUCE	13 2	GOOD	EXISTING TREE TO REMAIN	11 EURO	PEAN BEECH 17	2	GOOD	EXISTING TREE TO REMAIN
75 BLUE SPRUCE	19 2	GOOD	EXISTING TREE TO REMAIN	12 EURO	PEAN BEECH 18	3	GOOD	EXISTING TREE TO REMAIN
76 BLUE SPRUCE	17 2	GOOD	EXISTING TREE TO REMAIN	14 SILVE	R MAPLE 22	3	GOOD	EXISTING TREE TO REMAIN
77 IRONWOOD	15 3	GOOD	EXISTING TREE TO REMAIN		K WALNUT 44	5	GOOD	EXISTING TREE TO REMAIN
78 SUGAR MAPLE	20 4	GOOD	EXISTING TREE TO REMAIN	20 BASS	WOOD 22	3	GOOD	EXISTING TREE TO REMAIN
79 SUGAR MAPLE	29 4	GOOD	EXISTING TREE TO REMAIN	21 SILVE	R MAPLE 19	3	GOOD	EXISTING TREE TO REMAIN
80 MANITOBA MAPLE	23 5	GOOD	EXISTING TREE TO REMAIN	22 SILVE	R MAPLE 23	3	GOOD	EXISTING TREE TO REMAIN
81 WHITE ELM	25 3	GOOD	EXISTING TREE TO REMAIN	23 SILVE		3	GOOD	EXISTING TREE TO REMAIN
82 MANITOBA MAPLE	35 5	GOOD	EXISTING TREE TO REMAIN		R MAPLE 22		GOOD	EXISTING TREE TO REMAIN
83 SUGAR MAPLE	30 4	GOOD	EXISTING TREE TO REMAIN	25 CRAB			GOOD	EXISTING TREE TO REMAIN
84 IRONWOOD	18 0	GOOD	EXISTING TREE TO REMAIN	-	Y LOCUST 17		GOOD	EXISTING TREE TO REMAIN
85 IRONWOOD	33 4	GOOD	EXISTING TREE TO REMAIN		Y LOCUST 17		GOOD	EXISTING TREE TO REMAIN
86 SUGAR MAPLE	12 3	GOOD	EXISTING TREE TO REMAIN		UCKY COFFEE TREE 13		GOOD	EXISTING TREE TO REMAIN
87 IRONWOOD	15 3	GOOD	EXISTING TREE TO REMAIN		Y LOCUST 14		GOOD	EXISTING TREE TO REMAIN
88 BASSWOOD	30 4	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 20		GOOD	EXISTING TREE TO REMAIN
89 BASSWOOD	21 3	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 17		GOOD	EXISTING TREE TO REMAIN
90 BASSWOOD	26 2	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 17		GOOD	EXISTING TREE TO REMAIN
91 BASSWOOD	21 3	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 16		GOOD	EXISTING TREE TO REMAIN
92 IRONWOOD	21 3	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 19		GOOD	EXISTING TREE TO REMAIN
93 SUGAR MAPLE	11 3	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 19		GOOD	EXISTING TREE TO REMAIN
94 MANITOBA MAPLE	20 4	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 16		GOOD	EXISTING TREE TO REMAIN
95 SWAMP WHITE OAK	17 3	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 22		GOOD	EXISTING TREE TO REMAIN
96 SUGAR MAPLE	19 3	GOOD	EXISTING TREE TO REMAIN	·	PEAN BEECH 18		GOOD	EXISTING TREE TO REMAIN
97 WHITE ELM	43 6	GOOD	EXISTING TREE TO REMAIN		PEAN BEECH 17		GOOD	EXISTING TREE TO REMAIN
98 SUGAR MAPLE	18 2		LE EXISTING TREE TO REMAIN	41 SILVE 42 ELM	R MAPLE 11 12		GOOD	EXISTING TREE TO REMAIN EXISTING TREE TO REMAIN
99 SUGAR MAPLE	18 4	GOOD	EXISTING TREE TO REMAIN	42 ELM 43 ELM	12		GOOD GOOD	EXISTING TREE TO REMAIN
100 SUGAR MAPLE	10 2		LE EXISTING TREE TO REMAIN	43 ELIVI 44 ELM	13		GOOD	EXISTING TREE TO REMAIN
101 SUGAR MAPLE	10 1		LE EXISTING TREE TO REMAIN	45 HONE			GOOD	EXISTING TREE TO REMAIN
102 SUGAR MAPLE	21 3		EXISTING TREE TO REMAIN		ON PLANE TREE 20		GOOD	EXISTING TREE TO REMAIN
103 SUGAR MAPLE 104 SUGAR MAPLE	15 3		LE EXISTING TREE TO REMAIN		PEAN BEECH 17		GOOD	EXISTING TREE TO REMAIN
104 SUGAR MAPLE 105 SUGAR MAPLE	52 5	GOOD	EXISTING TREE TO REMAIN	48 HONE			GOOD	EXISTING TREE TO REMAIN
105 SUGAR MAPLE 106 WHITE ELM	24 2 13 2	GOOD	EXISTING TREE TO REMAIN EXISTING TREE TO REMAIN	·	ON PLANE TREE 29		GOOD	EXISTING TREE TO REMAIN
106 WHITE ELM 107 SUGAR MAPLE	39 4	GOOD	EXISTING TREE TO REMAIN EXISTING TREE TO REMAIN		ON PLANE TREE 26		GOOD	EXISTING TREE TO REMAIN
107 SUGAR MAPLE 108 SUGAR MAPLE	25 4	GOOD	EXISTING TREE TO REMAIN EXISTING TREE TO REMAIN	51 SILVE			GOOD	EXISTING TREE TO REMAIN
109 SUGAR MAPLE	55 5	GOOD	EXISTING TREE TO REMAIN EXISTING TREE TO REMAIN	52 SILVE			GOOD	EXISTING TREE TO REMAIN
110 SUGAR MAPLE	68 6	GOOD	EXISTING TREE TO REMAIN		ON PLANE TREE 20		GOOD	EXISTING TREE TO REMAIN
111 SUGAR MAPLE	45 5	GOOD	EXISTING TREE TO REMAIN	·	UCKY COFFEE TREE 14		GOOD	EXISTING TREE TO REMAIN
112 SUGAR MAPLE	42 5	GOOD	EXISTING TREE TO REMAIN		UCKY COFFEE TREE 11		GOOD	EXISTING TREE TO REMAIN
.12 GOGAR WAI EL	-74 J	3005	DISTING THEE TO INCIDENT			_		









ISSUE OR REVISION ISSUED FOR

SITE PLAN SUBMISSION 1 2022-05-31 SPA RE-SUBMISSION 2022-08-30 2022-12-20 2022 UPDATE SPA - REVISION 2023-08-30 2023-09-15 ISSUED FOR PERMIT ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 T24-253 - IFT 2024-04-15



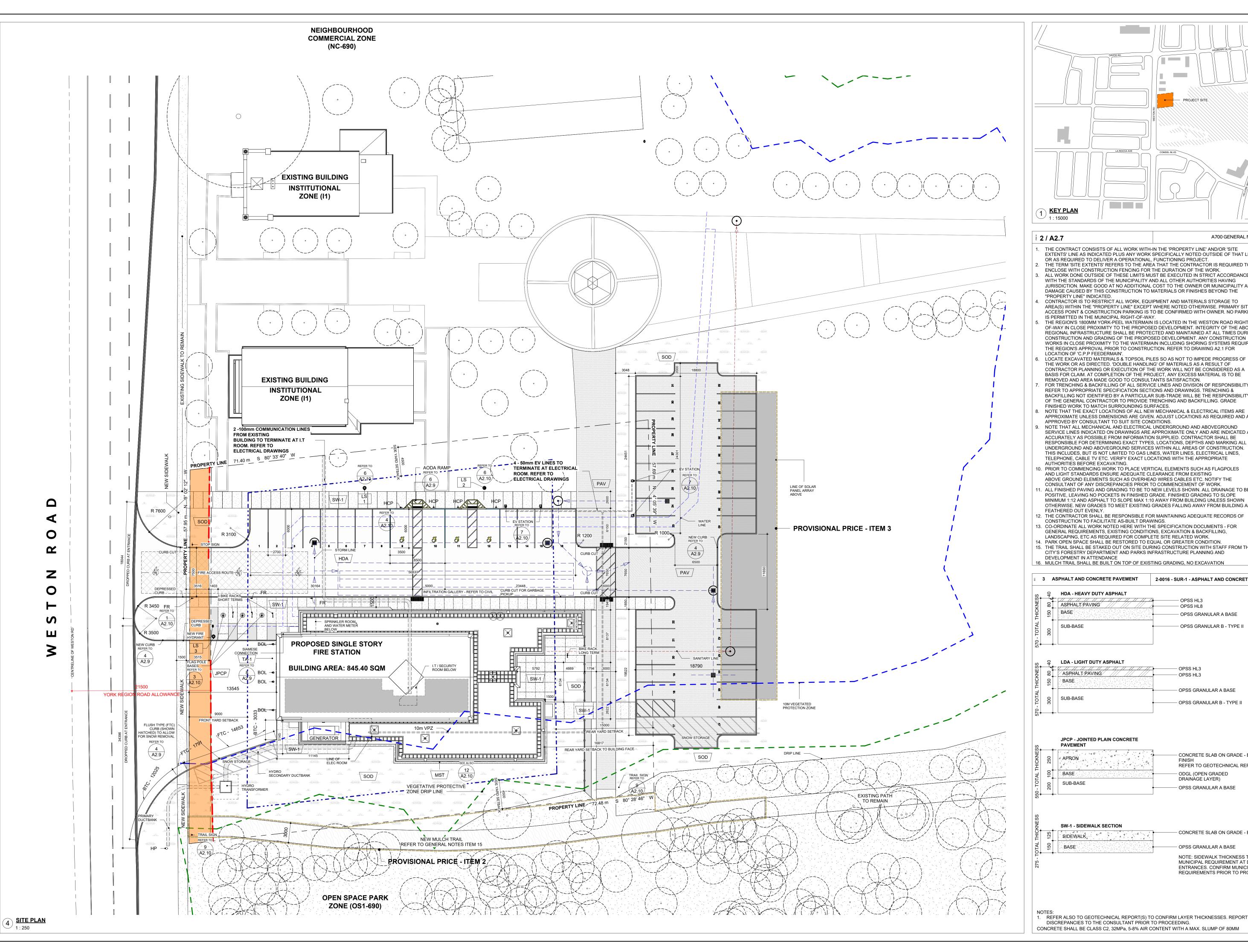
FILE NO. SP.22.V.0191

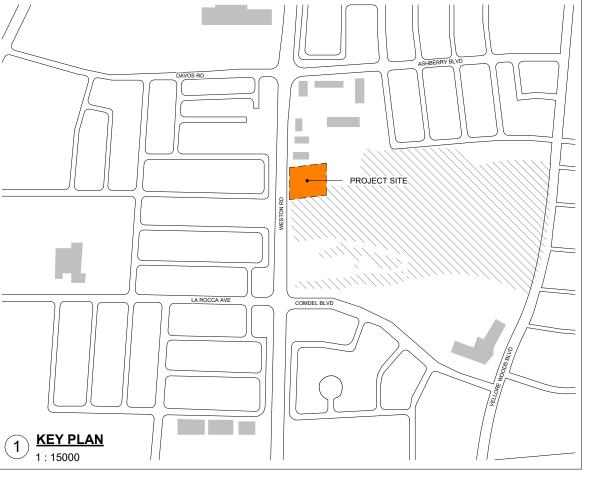


THOMASBROWNARCHITECTS

TREE INVENTORY/ REMOVAL/ PRESERVATION PLAN SCHEDULES

	2021-11-24								
3 AM	SCALE	DRAWN BY SRL							
4 .	DWG STATUS:								
10:44:48 AM	TENDER								
2024-04-19	PROJECT No.	2104							
05	DRAWING No.	A O 4	REVISION						
7		A2.4	26						





A700 GENERAL NOTES - SITE 1. THE CONTRACT CONSISTS OF ALL WORK WITH-IN 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. THE TERM 'SITE EXTENTS' REFERS TO THE AREA THAT THE CONTRACTOR IS REQUIRED TO ENCLOSE WITH CONSTRUCTION FENCING FOR THE DURATION OF THE WORK.

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. 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. THE REGION'S 1800MM YORK-PEEL WATERMAIN IS LOCATED IN THE WESTON ROAD RIGHT-OF-WAY IN CLOSE PROXIMITY TO THE PROPOSED DEVELOPMENT. INTEGRITY OF THE ABOVE REGIONAL INFRASTRUCTURE SHALL BE PROTECTED AND MAINTAINED AT ALL TIMES DURING

CONSTRUCTION AND GRADING OF THE PROPOSED DEVELOPMENT. ANY CONSTRUCTION WORKS IN CLOSE PROXIMITY TO THE WATERMAIN INCLUDING SHORING SYSTEMS REQUIRE THE REGION'S APPROVAL PRIOR TO CONSTRUCTION. REFER TO DRAWING A2.1 FOR LOCATION OF 'C.P.P FEEDERMAIN'. 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

BASIS FOR CLAIM. AT COMPLETION OF THE PROJECT, ANY EXCESS MATERIAL IS TO BE REMOVED AND AREA MADE GOOD TO CONSULTANTS SATISFACTION. 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

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. 9. 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. 10. 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. 11. 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

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF CONSTRUCTION TO FACILITATE AS-BUILT DRAWINGS.

13. 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.

14. PARK OPEN SPACE SHALL BE RESTORED TO EQUAL OR GREATER CONDITION.15. THE TRAIL SHALL BE STAKED OUT ON SITE DURING CONSTRUCTION WITH STAFF FROM THE CITY'S FORESTRY DEPARTMENT AND PARKS INFRASTRUCTURE PLANNING AND

DEVELOPMENT IN ATTENDANCE 16. MULCH TRAIL SHALL BE BUILT ON TOP OF EXISTING GRADING, NO EXCAVATION

ω .	40	HDA - HEAVY DUTY ASPHALT	
TOTAL THICKNESS	08	ASPHALT PAVING	OPSS HL3
충	20	BASE	OPSS HL8
티	15		OPSS GRANULAR A BASE
TAL		SUB-BASE	OPSS GRANULAR B - TYPE II
2	300		
570 -	\perp		
۵,			
	40	LDA - LIGHT DUTY ASPHALT	
THICKNESS	4		OPSS HL3
X	8	ASPHALT PAVING	OPSS HL3
불	150		
F		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	OPSS GRANULAR A BASE
TOTAL	300	SUB-BASE	OPSS GRANULAR B - TYPE II
1			OF GO GIVINGENTE THE II
570	+		
		JPCP - JOINTED PLAIN CONCRETE PAVEMENT	
OTAL THICKNESS	+		CONODETE CLAD ON ODADE DOCOM
X	250	4 APRON	CONCRETE SLAB ON GRADE - BROOM FINISH
¥	. 4	A	REFER TO GEOTECHNICAL REPORT
亡	8		

+	SUB-DASE	OPSS GRANULAR A BASE
+	SW-1 - SIDEWALK SECTION	2 ACMODETE OF AD ON ODADE DECOMENSOR
	SIDEWALK	CONCRETE SLAB ON GRADE - BROOM FINISH
	BASE	OPSS GRANULAR A BASE
Υ		NOTE: SIDEWALK THICKNESS TO MEET MUNICIPAL REQUIREMENT AT DRIVEWAY ENTRANCES. CONFIRM MUNICIPAL REQUIREMENTS PRIOR TO PROCEEDING

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

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> **ISSUE OR REVISION ISSUED FOR** SITE PLAN SUBMISSION 1 MINOR VARIANCE

2022-05-31 2022-06-27 SPA RE-SUBMISSION 2022-08-30 ROAD WIDENING - CLIENT REVIEW 2023-07-19 2023-08-30 SPA - REVISION ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ 2023-10-19 SPA - REVISION #2 2023-10-24 ISSUED FOR CLASS A 2024-02-16 CLIENT REVIEW - 100% 2024-03-12 T24-253 - IFT

FILE NO. SP.22.V.0191

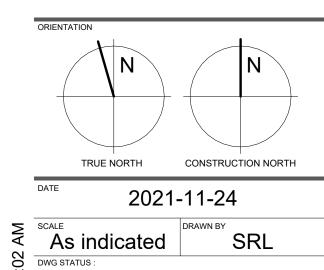
LA ROCCA AVE



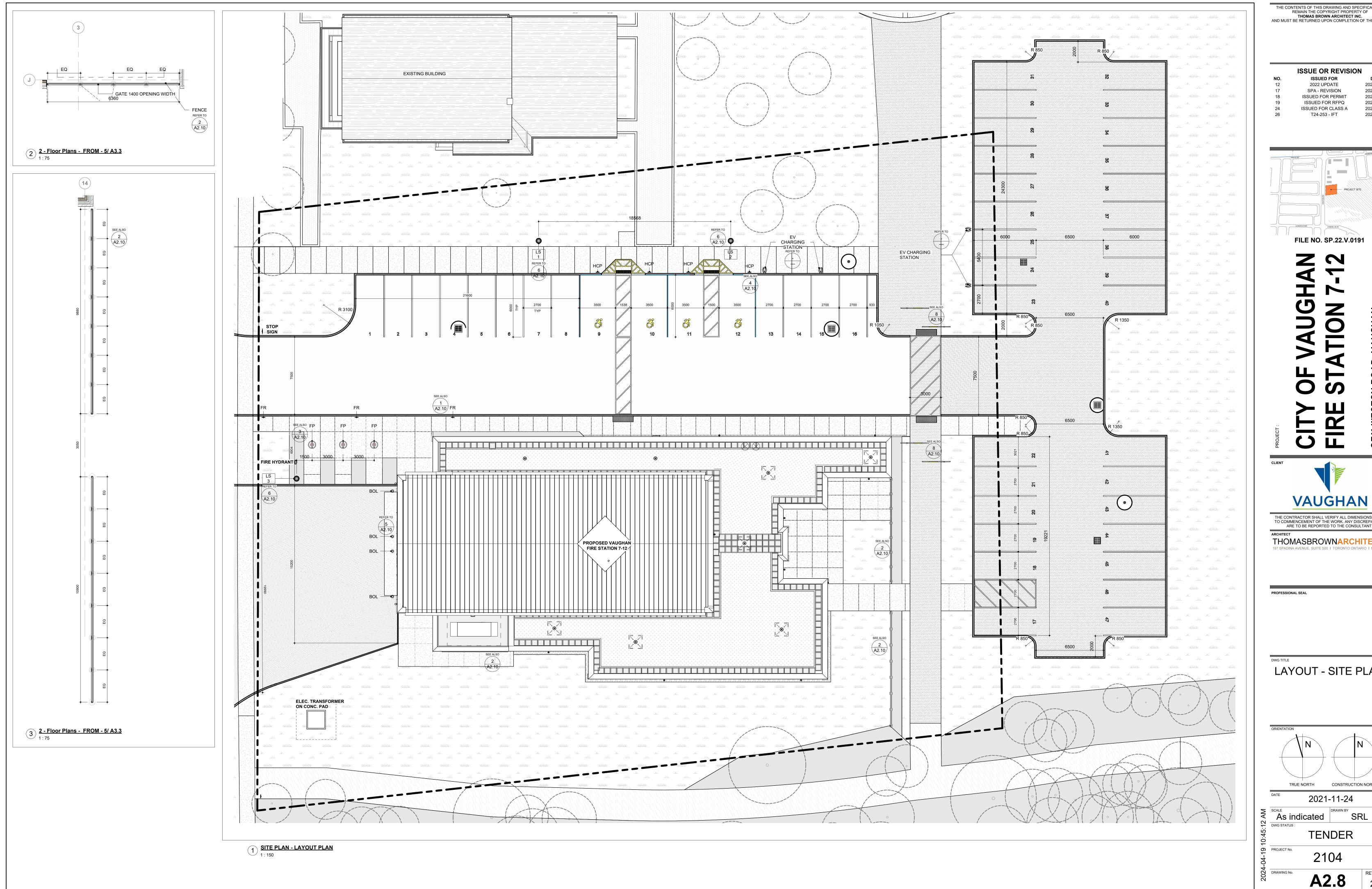
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOF TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

THOMASBROWNARCHITECTS

SITE PLAN & SITE PLAN GENERAL NOTES



TENDER PROJECT No.

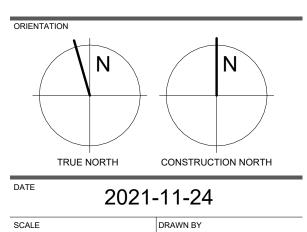


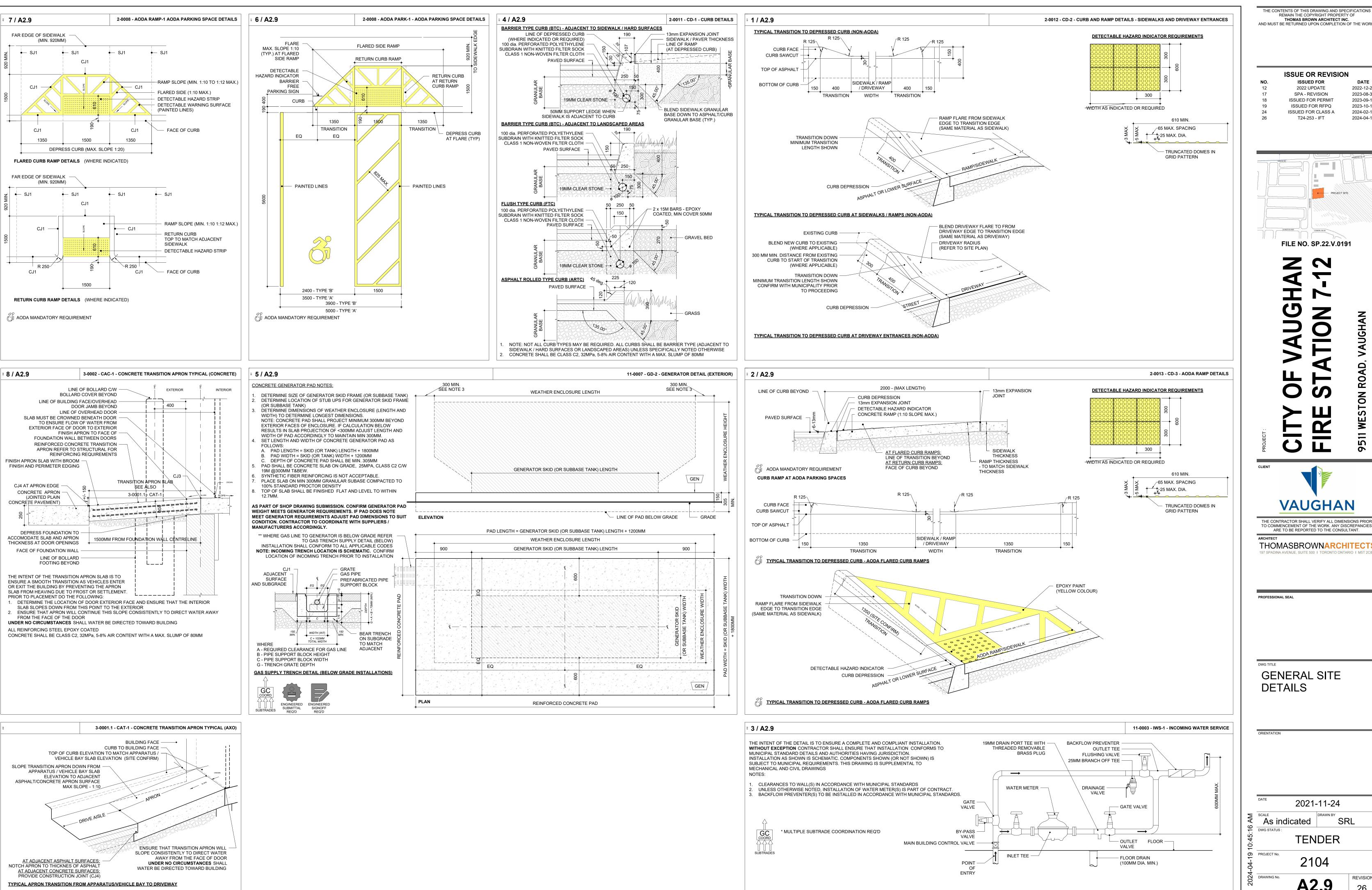
ISSUE OR REVISION 2022-12-20 2023-08-30 2023-09-15 2023-10-19 2024-02-16 2024-04-15 ISSUED FOR CLASS A

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

THOMASBROWNARCHITECTS

LAYOUT - SITE PLAN





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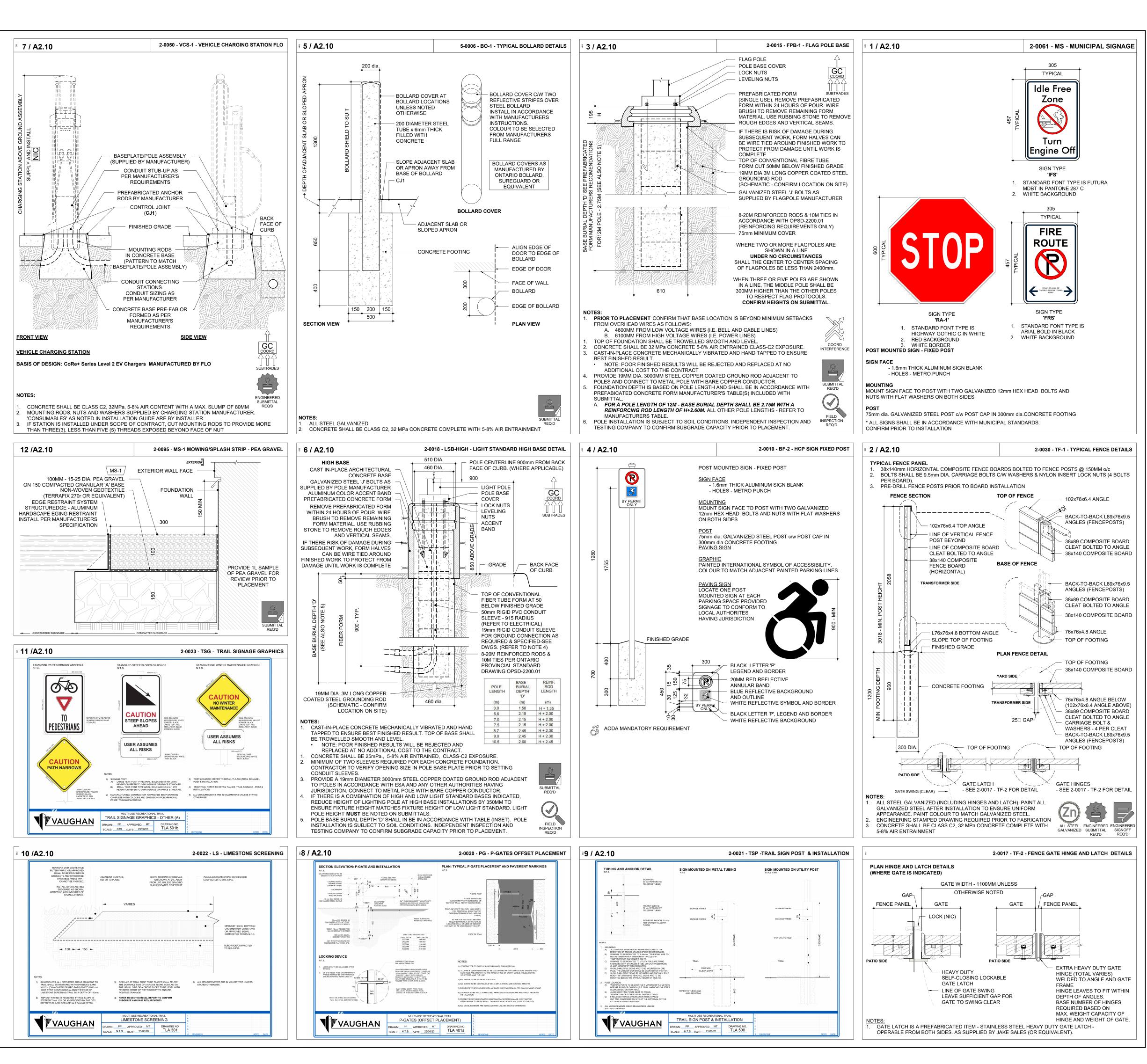
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TO COMMENCEMENT OF THE WORK, ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT. THOMASBROWNARCHITECTS

GENERAL SITE

2021-11-24 As indicated TENDER



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SITE PLAN SUBMISSION 1 2022-05-31 SPA RE-SUBMISSION 2022-08-30 SPA - REVISION 2023-08-30 ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 T24-253 - IFT 2024-04-15



FILE NO. SP.22.V.0191



ARE TO BE REPORTED TO THE CONSULTANT. **THOMASBROWNARCHITECTS**

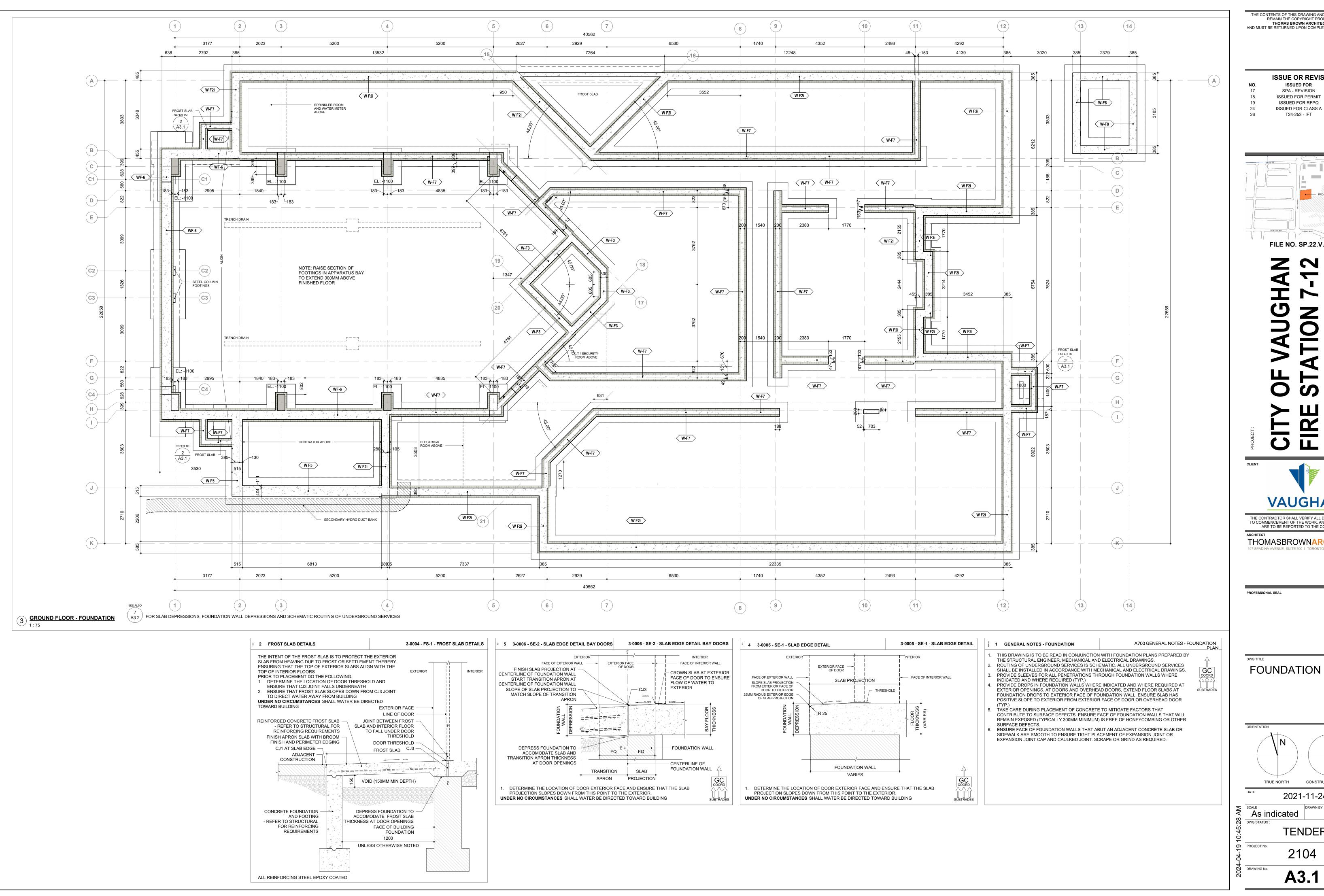
TO COMMENCEMENT OF THE WORK, ANY DISCREPANCIES

GENERAL SITE

DETAILS

2021-11-24 As indicated DWG STATUS TENDER → PROJECT No.

A2.10



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T24-253 - IFT

2023-08-30

2023-09-15

2023-10-19

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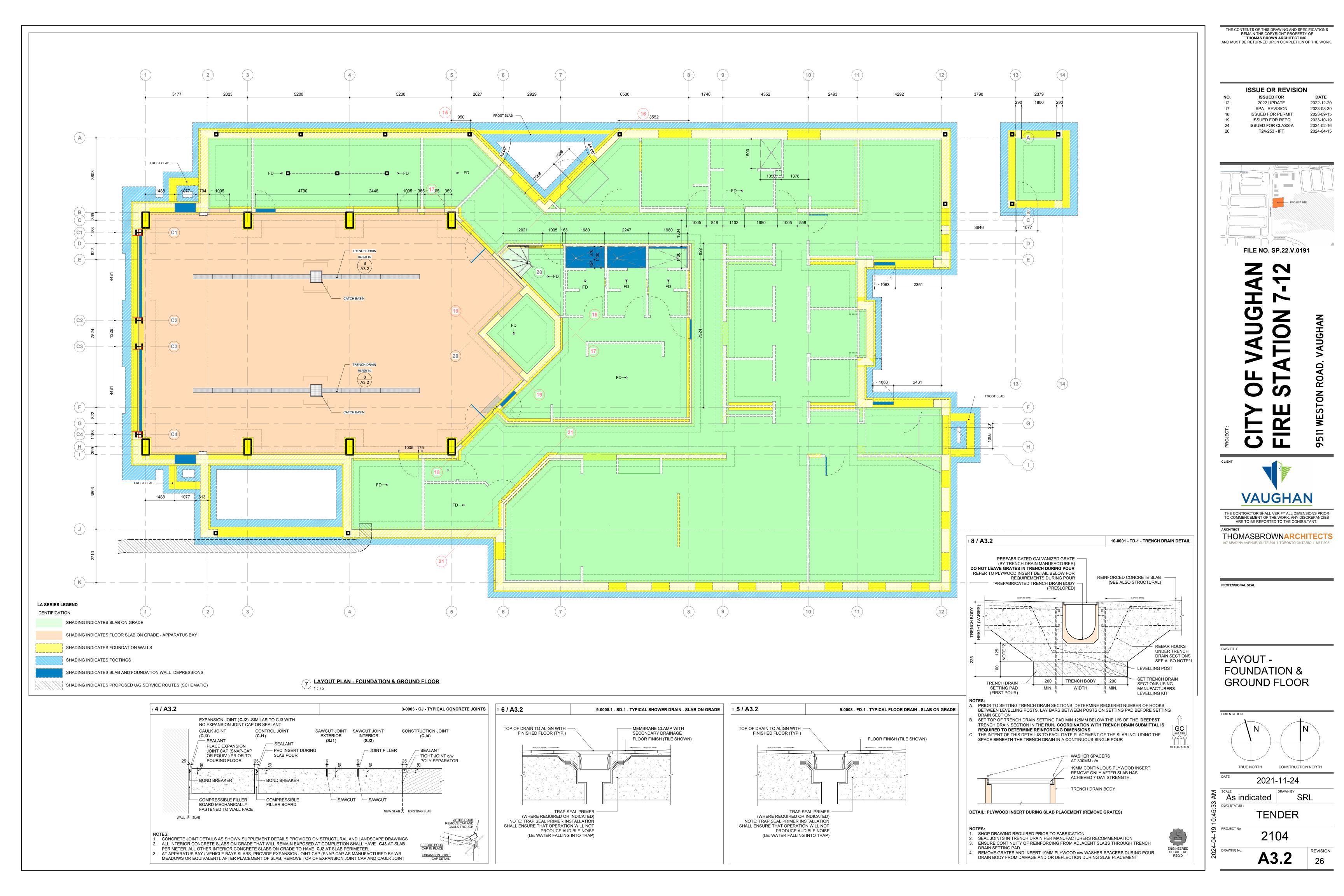
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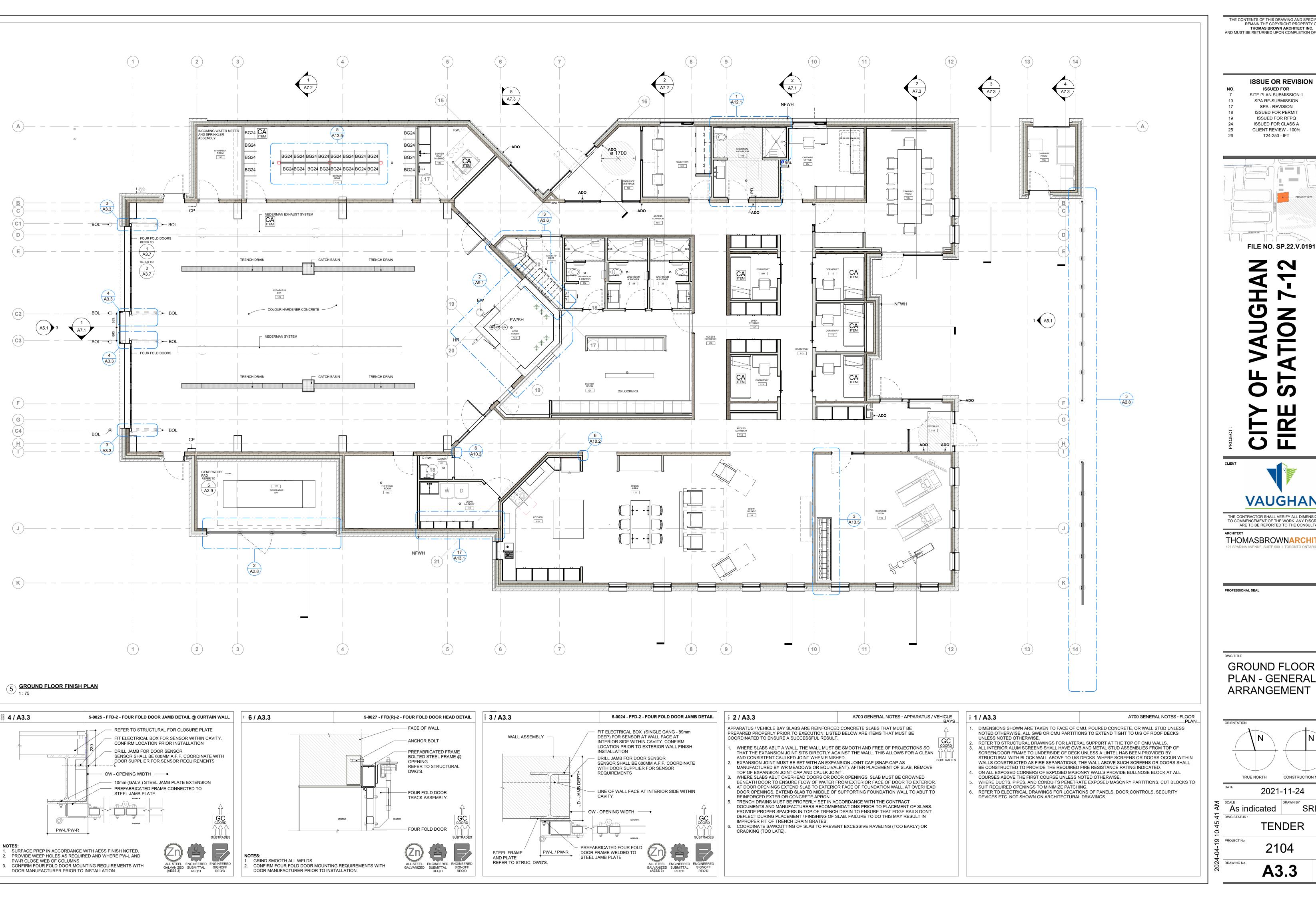
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THOMASBROWNARCHITECTS

FOUNDATION PLAN

TRUE NORTH CONSTRUCTION NORTH 2021-11-24 As indicated





ISSUE OR REVISION

ISSUED FOR SITE PLAN SUBMISSION 1 SPA RE-SUBMISSION

2022-05-31

2022-08-30 2023-08-30

2023-09-15 2023-10-19

2024-02-16 2024-03-12

2024-04-15

SPA - REVISION ISSUED FOR PERMIT ISSUED FOR RFPQ ISSUED FOR CLASS A CLIENT REVIEW - 100% T24-253 - IFT

FILE NO. SP.22.V.0191

VAUGHAN

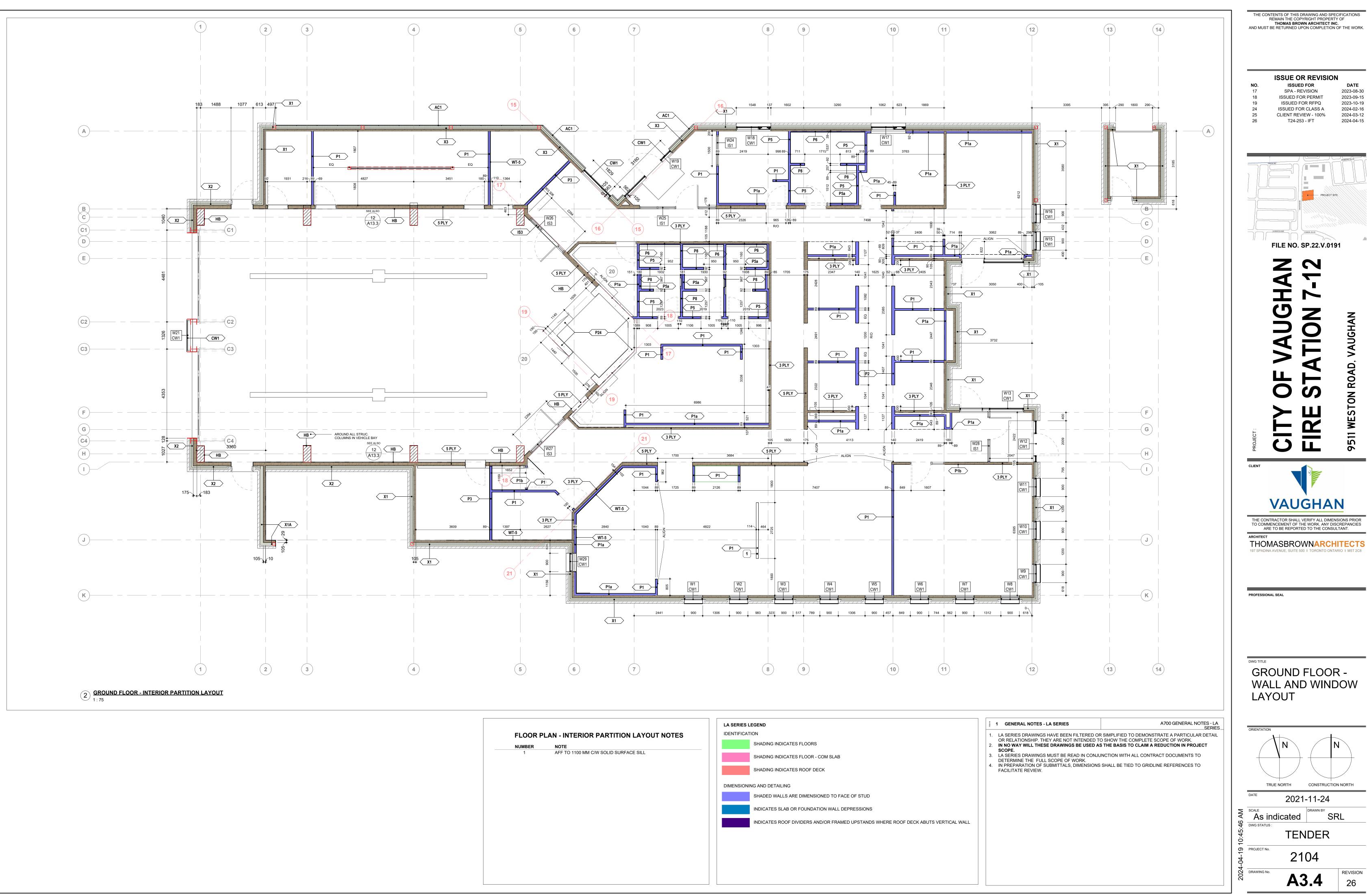
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THOMASBROWNARCHITECTS

GROUND FLOOR

TRUE NORTH

2021-11-24



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ISSUED FOR 2023-08-30 SPA - REVISION ISSUED FOR PERMIT ISSUED FOR RFPQ

2023-09-15 2023-10-19 2024-02-16 ISSUED FOR CLASS A 2024-03-12 CLIENT REVIEW - 100% T24-253 - IFT 2024-04-15



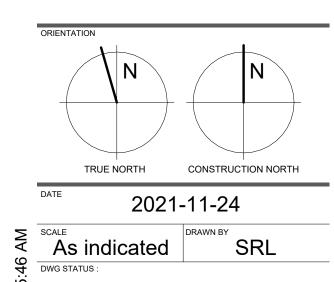
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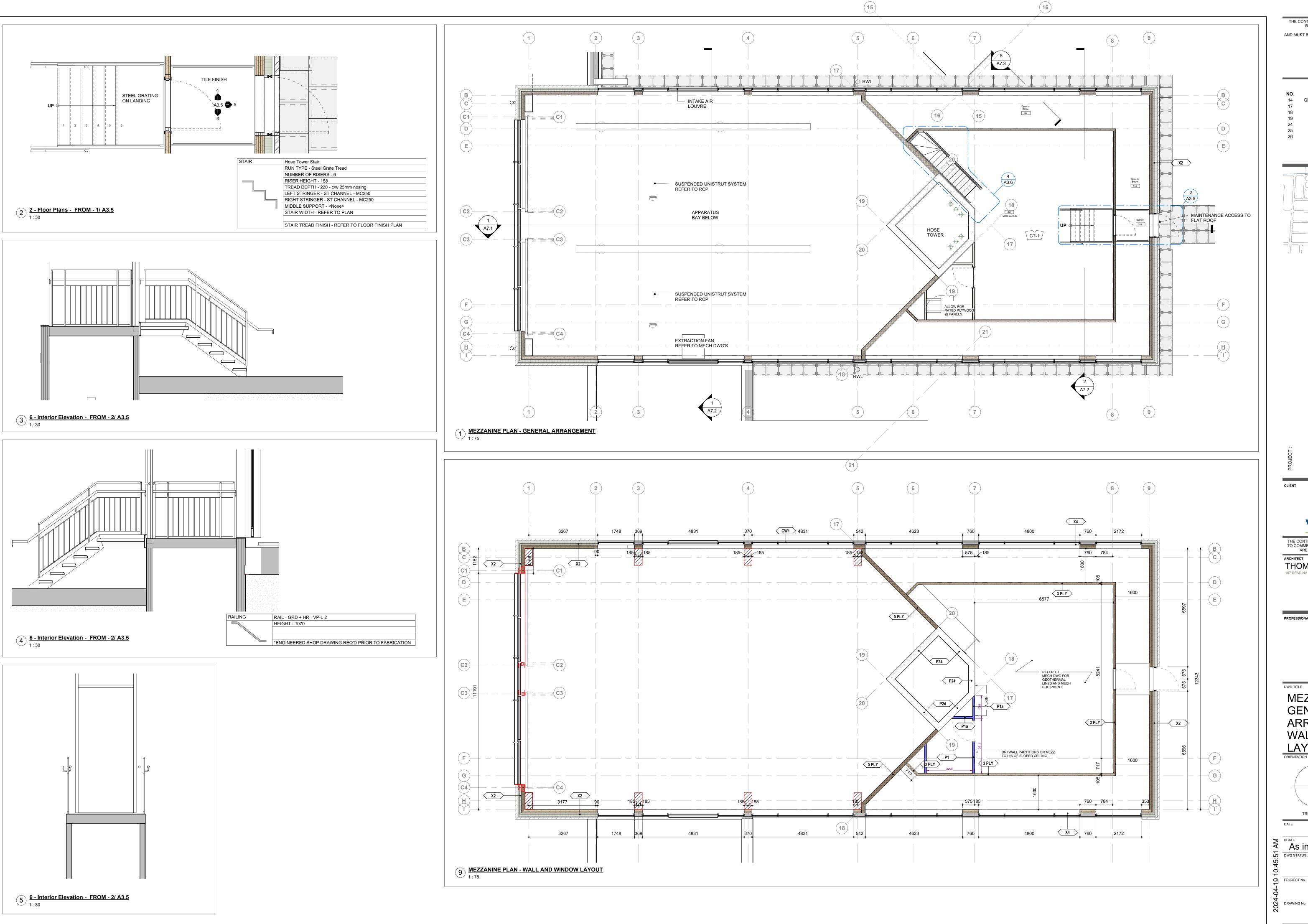


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GROUND FLOOR -WALL AND WINDOW LAYOUT





ISSUE OR REVISION

GEOTHERMAL ROUTE TO MEZZ 2023-03-22 SPA - REVISION ISSUED FOR PERMIT ISSUED FOR RFPQ

2023-09-15 2024-02-16 ISSUED FOR CLASS A CLIENT REVIEW - 100% 2024-03-12 2024-04-15 T24-253 - IFT



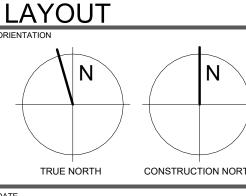
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MEZZANINE PLAN -**GENERAL** ARRANGEMENT, WALL AND WINDOW LAYOUT

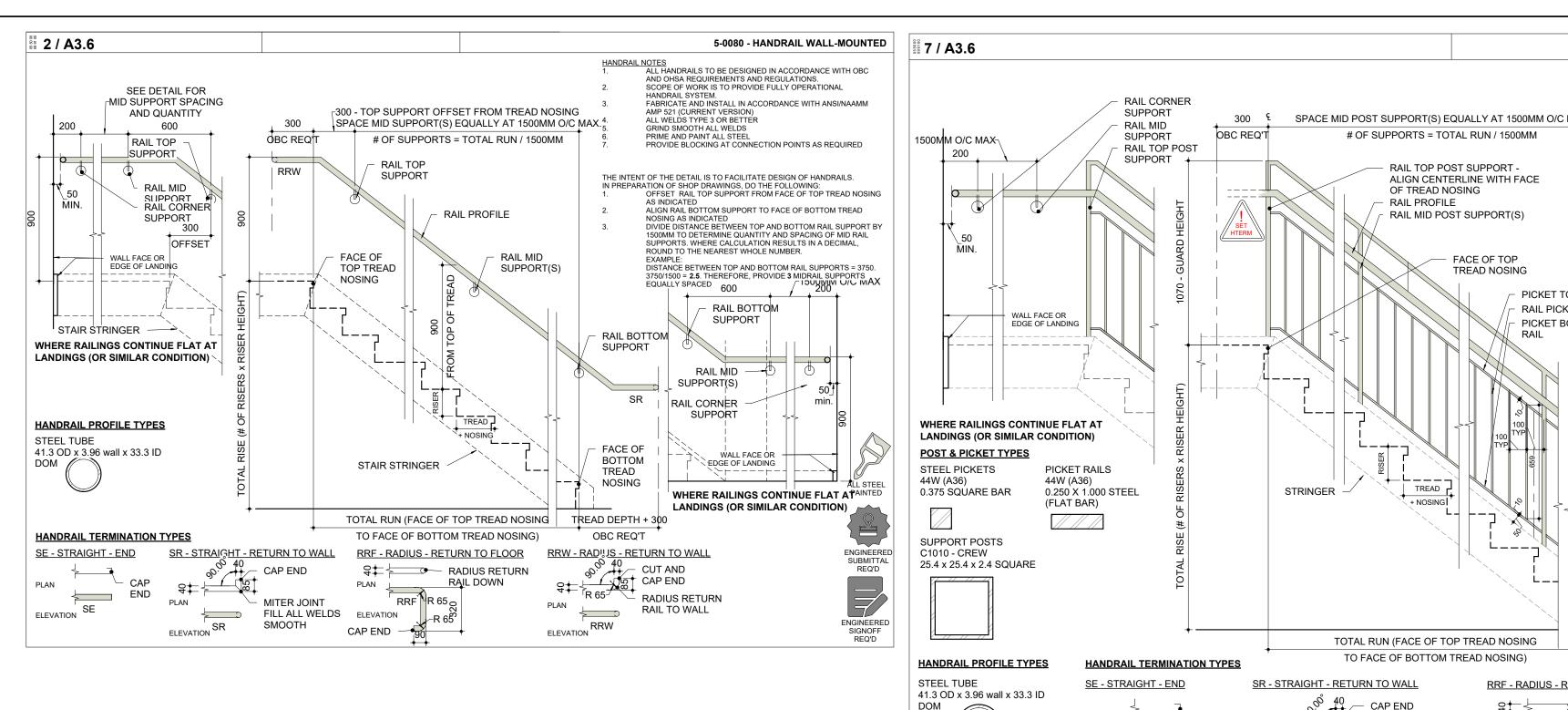


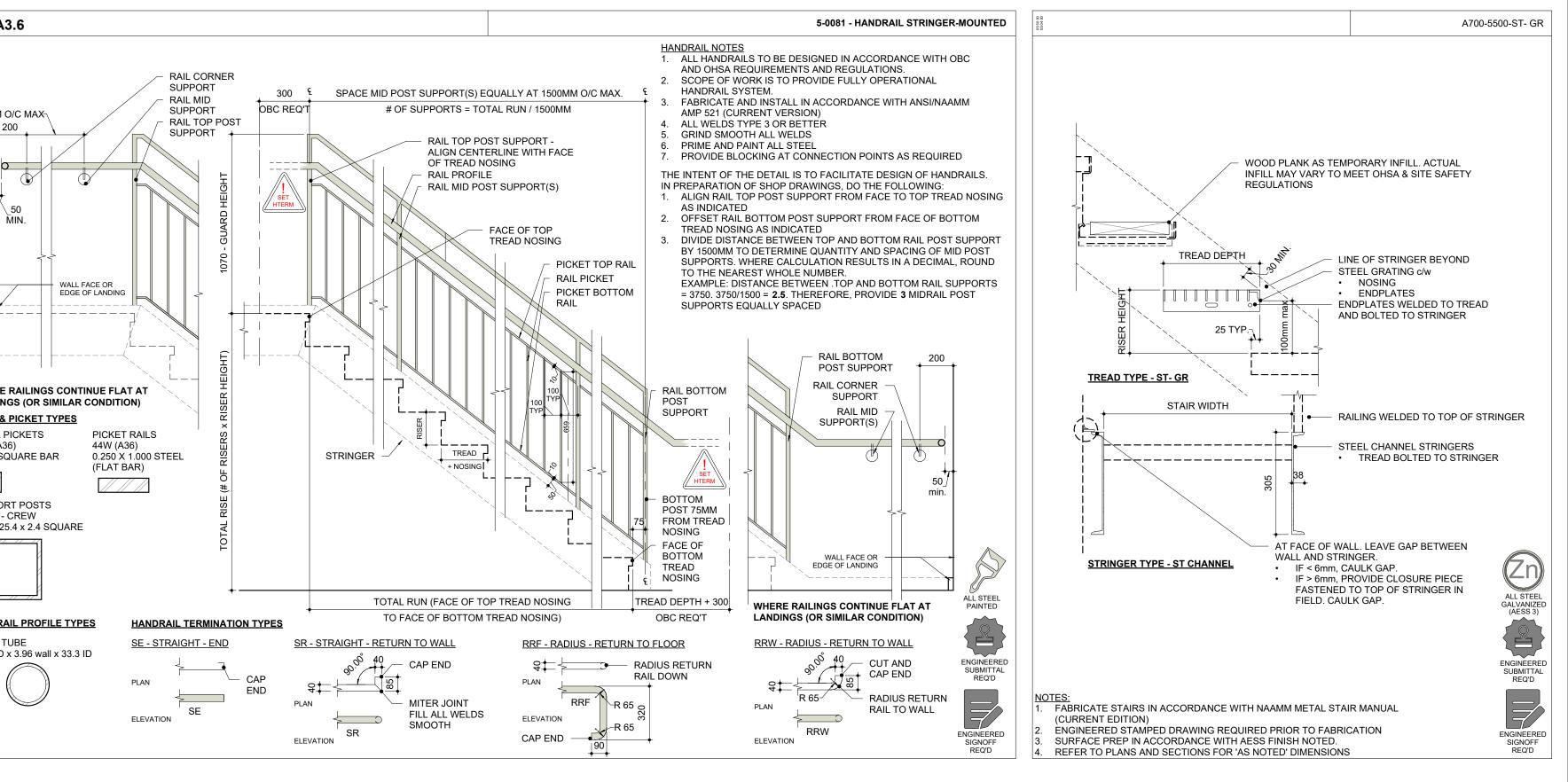
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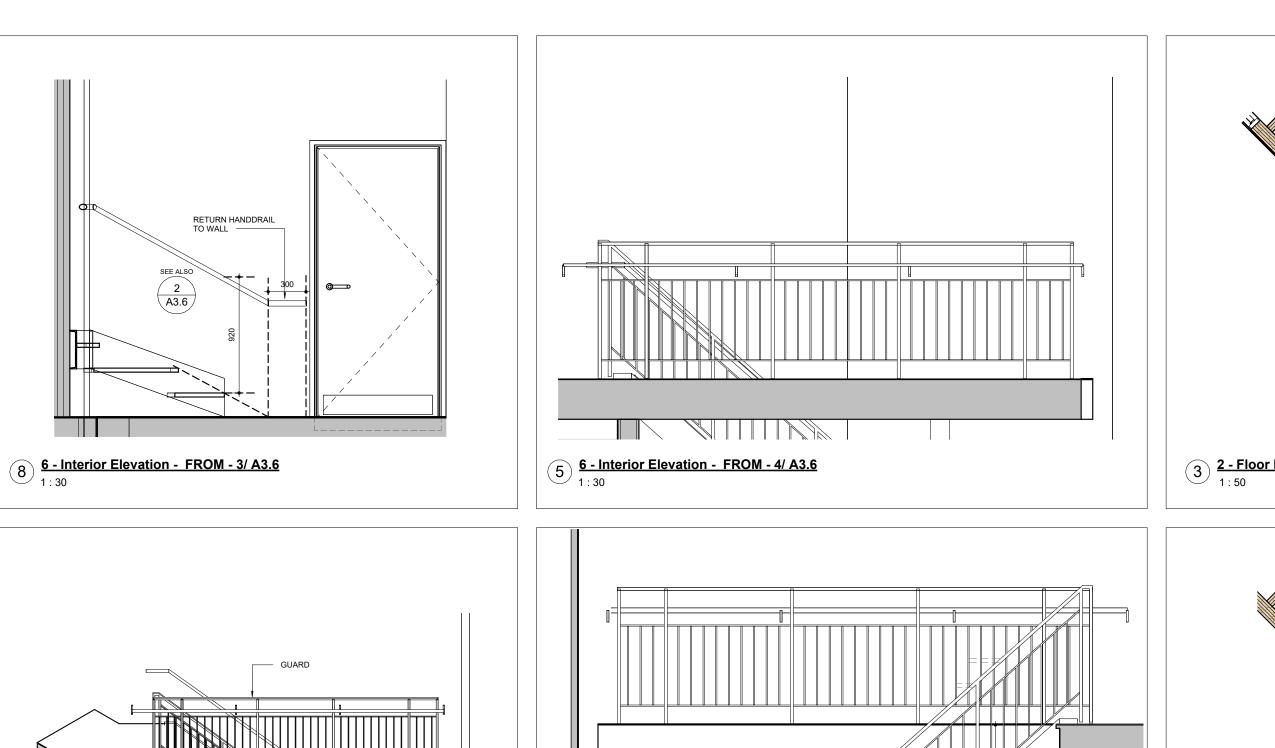
As indicated **TENDER**

2104

A3.5







9 6 - Interior Elevation - FROM - 3/ A3.6

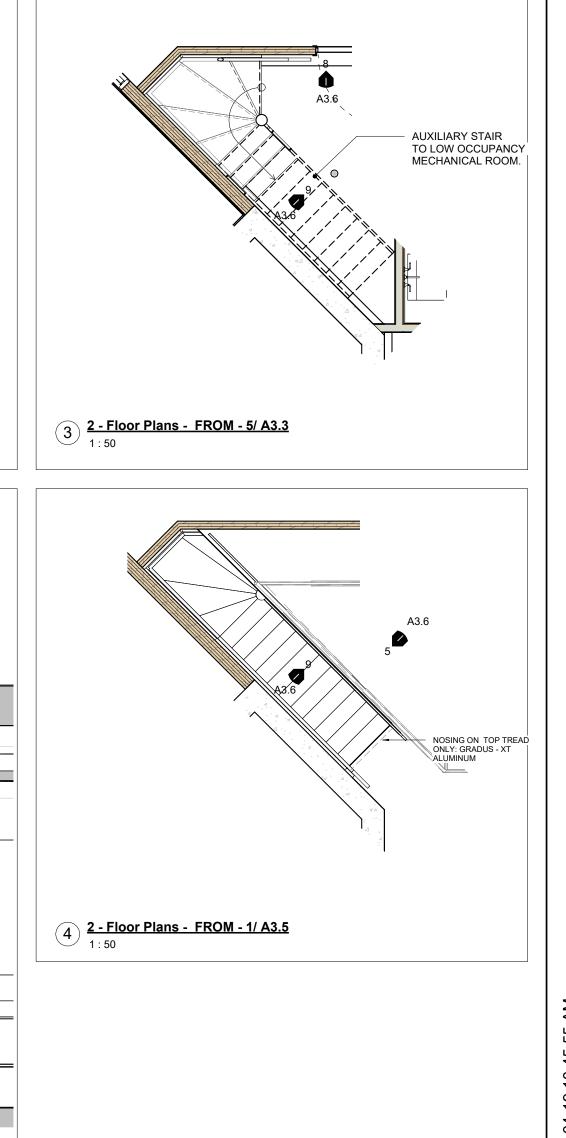
- STEEL TUBE. AFF TO U/S CLT DECK.

SIZING BY ENGINEER.

SEE ALSO 7 A3.6

6 AUXILLARY STAIR AXO

GRAPHIC REPRESENTATION FOR REFERENCE ONLY. DOES NOT REPRESENT DETAILS OR FINISHES.





ISSUE OR REVISION ISSUED FOR 2022 UPDATE

2022-12-20 DD CLIENT REVIEW 2023-07-24 2023-09-15 ISSUED FOR PERMIT ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 2024-04-15 T24-253 - IFT

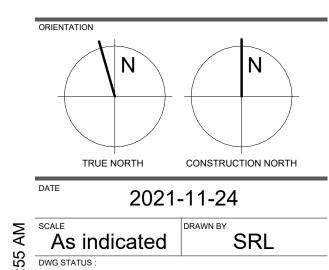


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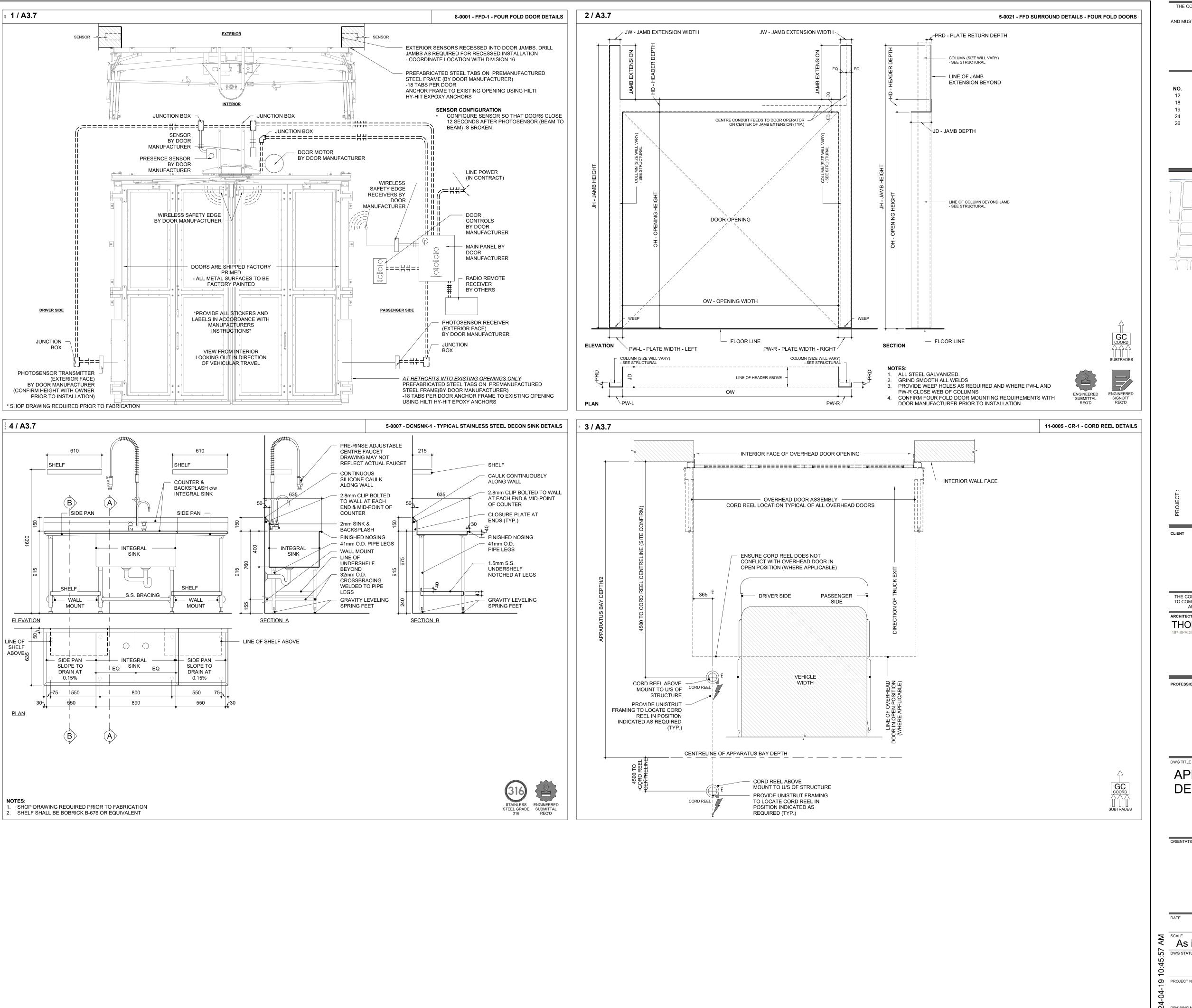
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AUXILIARY STAIR DETAILS



TENDER PROJECT No. 2104

A3.6



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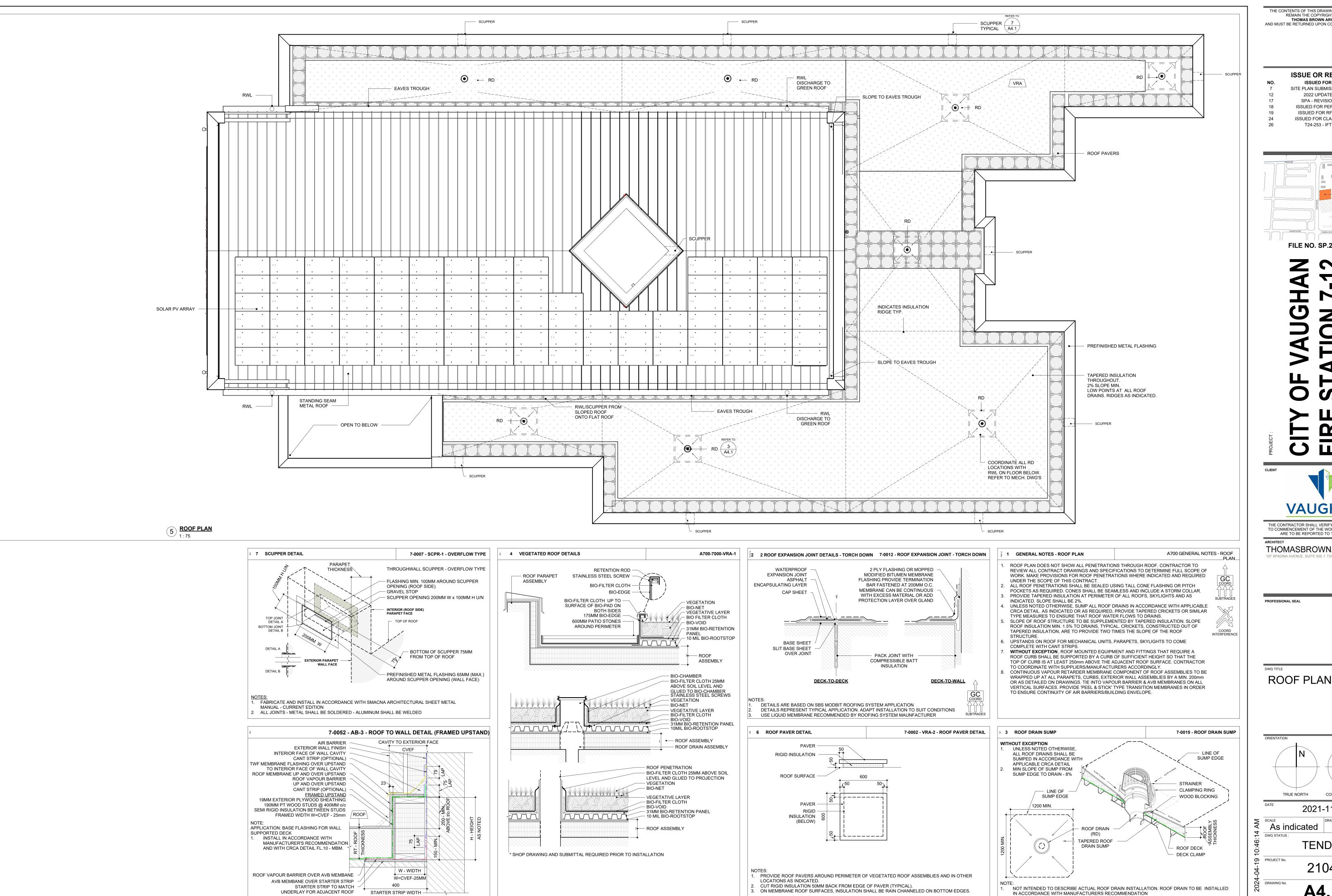


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PROFESSIONAL SEAL

APPARATUS BAY **DETAILS**

2021-11-24				
As indicated	DRAWN BY	RL.		
DWG STATUS:				
TENDER				
PROJECT No.	04			
DRAWING No.	7	REVISION		
A 3	5. <i>(</i>	26		



> **ISSUE OR REVISION ISSUED FOR** 2022-05-31

> > T24-253 - IFT

2022-12-20

2023-08-30

2023-09-15 2023-10-19

2024-02-16

2024-04-15

SITE PLAN SUBMISSION 1 2022 UPDATE SPA - REVISION ISSUED FOR PERMIT ISSUED FOR RFPQ ISSUED FOR CLASS A

LA ROCCA AVE

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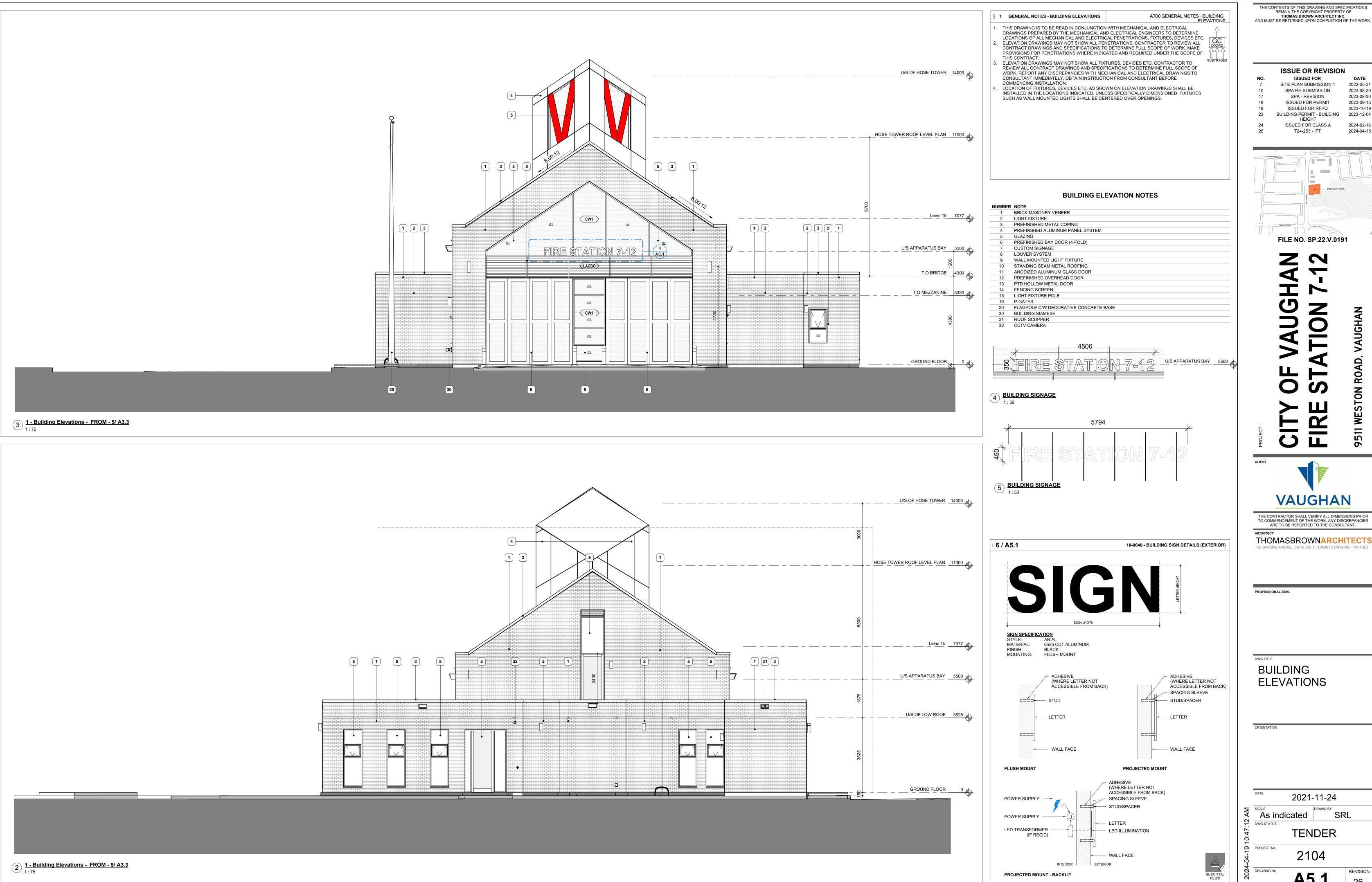
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

THOMASBROWNARCHITECTS

TRUE NORTH 2021-11-24

As indicated

TENDER



> **ISSUE OR REVISION** ISSUED FOR SITE PLAN SUBMISSION 1

2022-05-31 SPA RE-SUBMISSION 2022-08-30 2023-08-30 SPA - REVISION ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ 2023-10-19 BUILDING PERMIT - BUILDING 2023-12-04 HEIGHT 2024-02-16 ISSUED FOR CLASS A T24-253 - IFT 2024-04-15



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VAUGHAN

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BUILDING

2021-11-24 As indicated **TENDER** 2104 REVISION

26



ISSUE OR REVISION

2022-08-30

SITE PLAN SUBMISSION 1 SPA RE-SUBMISSION 2023-08-30 SPA - REVISION 2023-09-15 2023-10-19 ISSUED FOR PERMIT ISSUED FOR RFPQ 2024-02-16 2024-04-15 ISSUED FOR CLASS A

T24-253 - IFT

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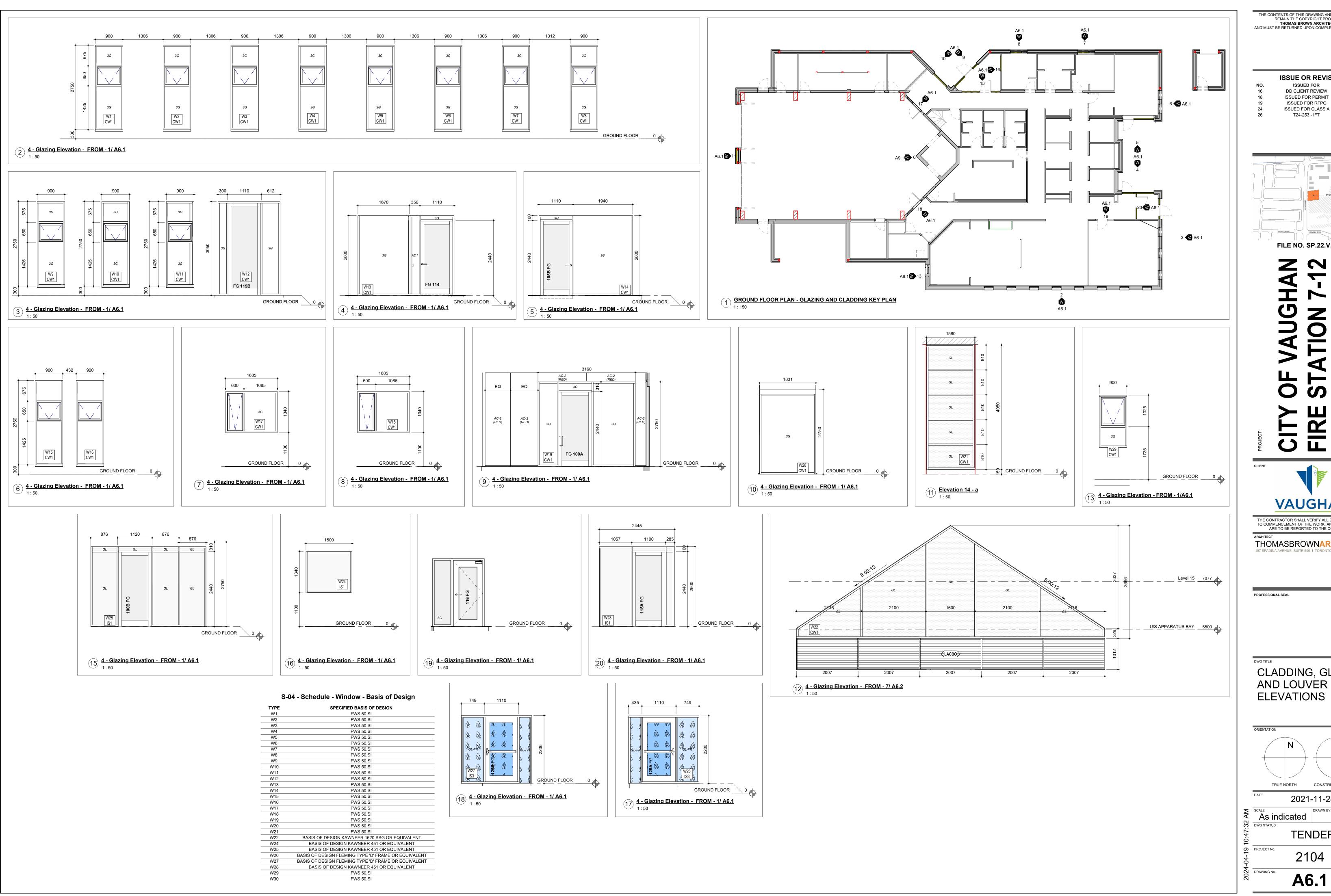
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THOMASBROWNARCHITECTS

PROFESSIONAL SEAL

BUILDING

2021-11-24 DWG STATUS: **TENDER** → PROJECT No.



> **ISSUE OR REVISION** DD CLIENT REVIEW ISSUED FOR PERMIT ISSUED FOR RFPQ ISSUED FOR CLASS A T24-253 - IFT

2023-07-24 2023-09-15 2023-10-19 2024-02-16

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THOMASBROWNARCHITECTS

CLADDING, GLAZING

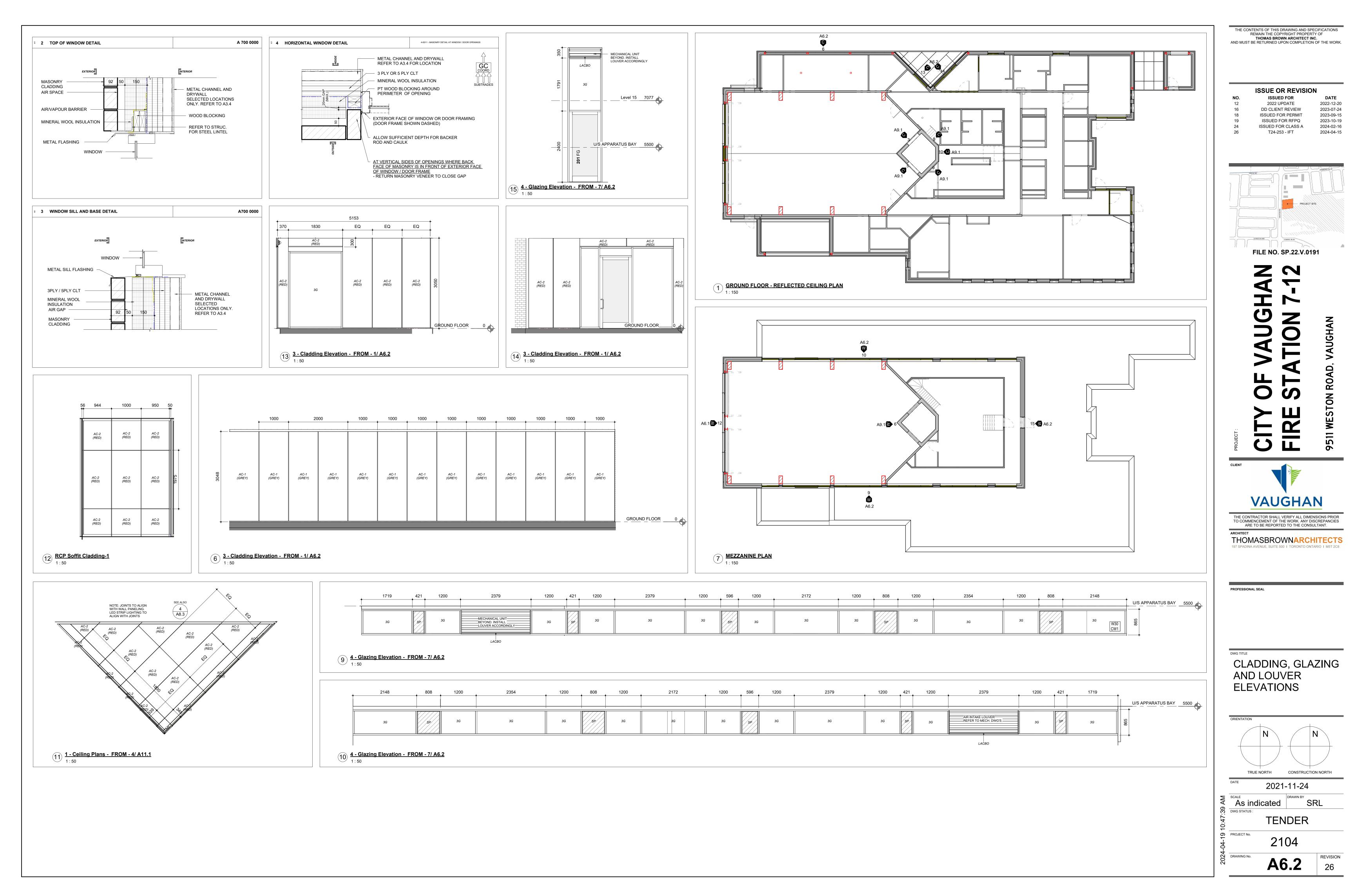
TRUE NORTH

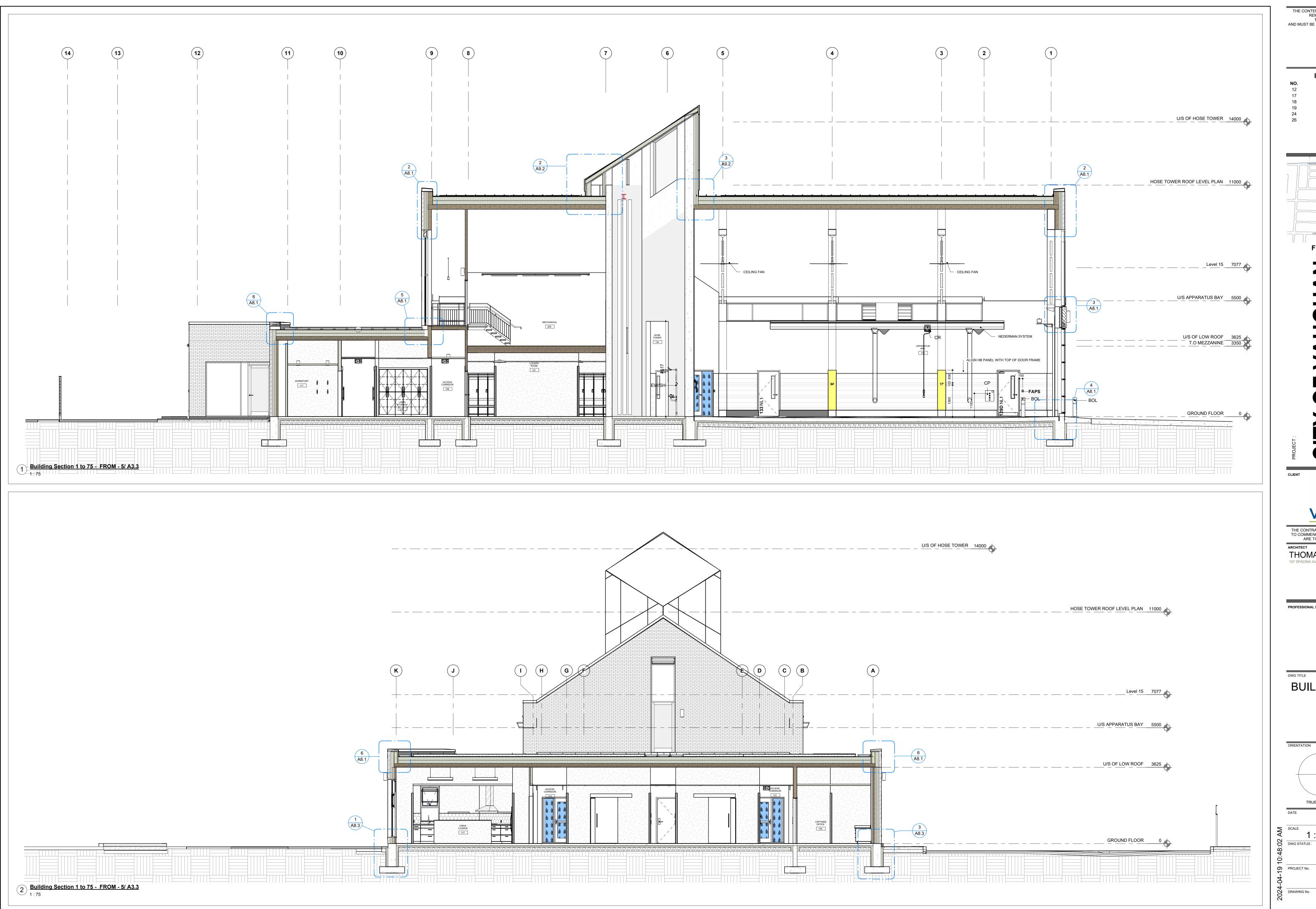
2021-11-24 As indicated

TENDER

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A6.1





ISSUE OR REVISION 2022 UPDATE

2022-12-20 2023-08-30 SPA - REVISION ISSUED FOR PERMIT 2023-09-15 2023-10-19 ISSUED FOR RFPQ 2024-02-16 ISSUED FOR CLASS A T24-253 - IFT 2024-04-15

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THOMASBROWNARCHITECTS

BUILDING SECTIONS

2021-11-24

TENDER

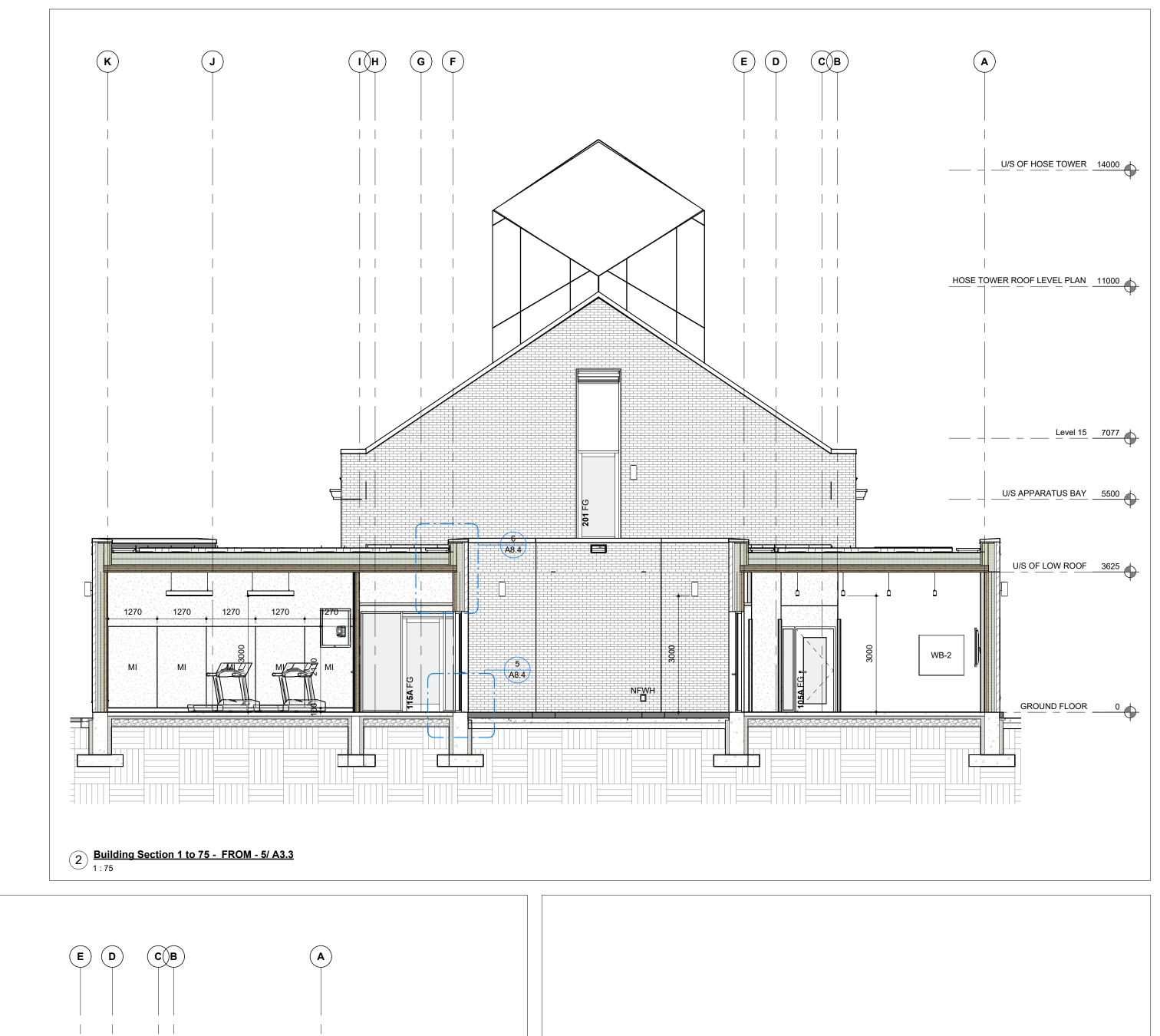
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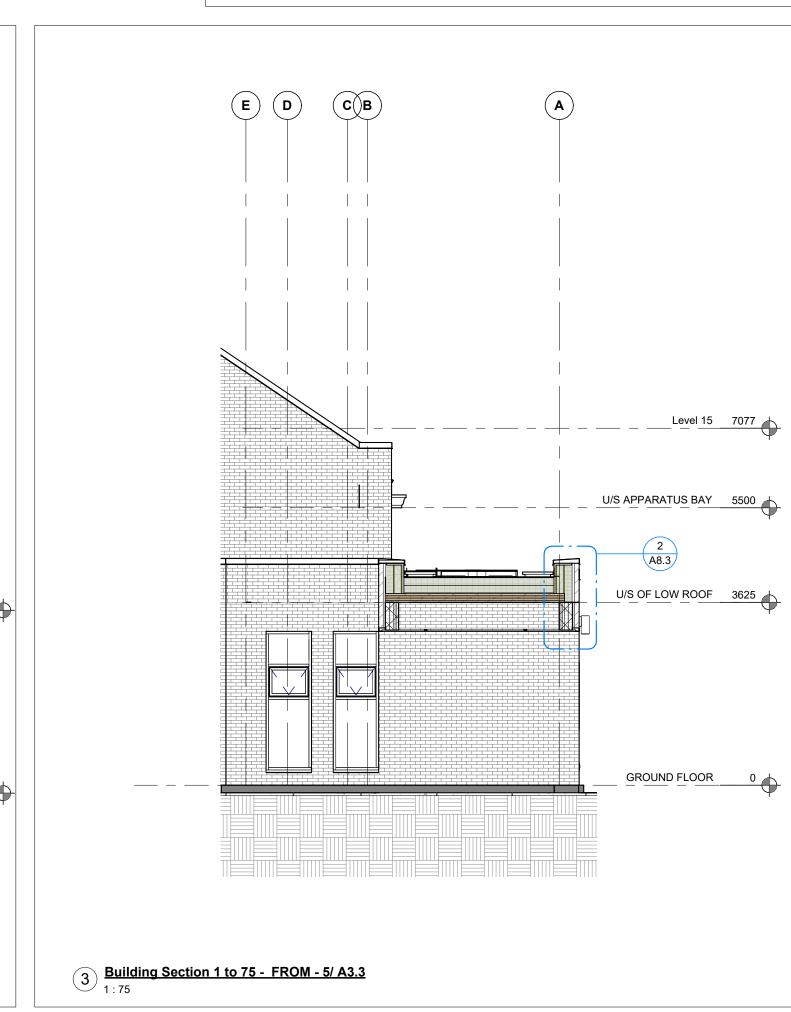


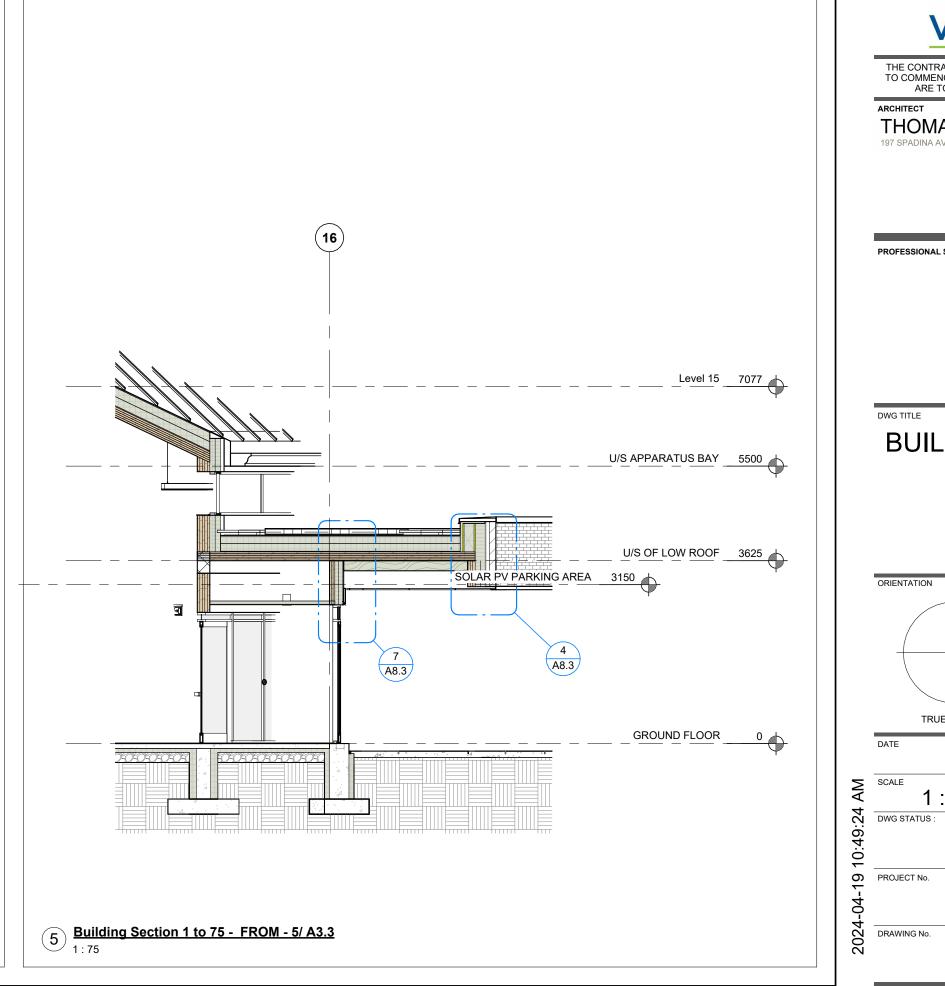
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 I TORONTO ONTARIO I M5T 2C8

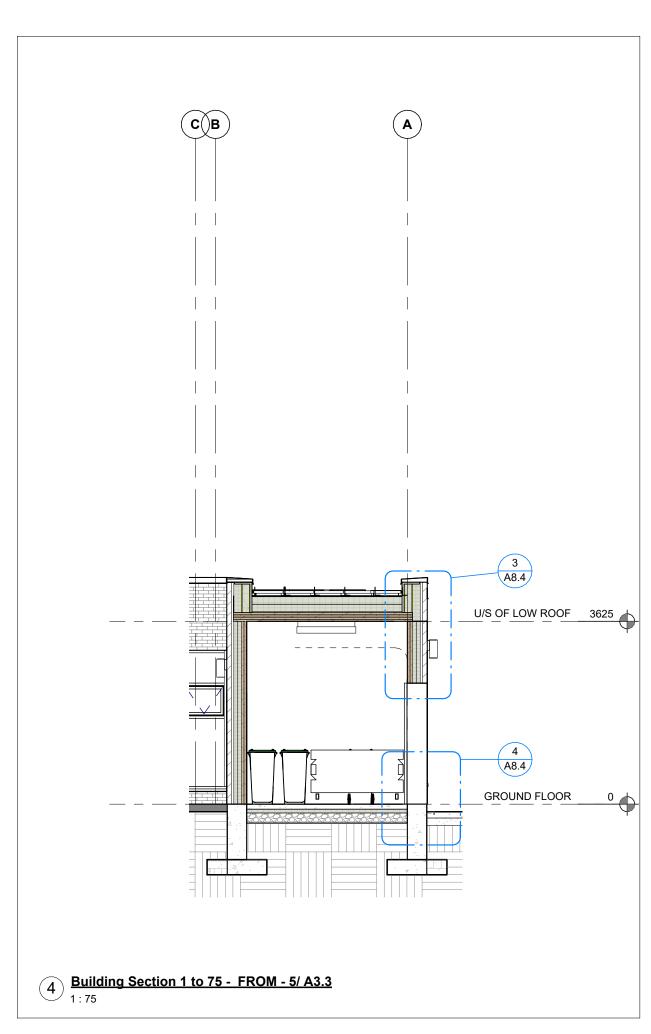
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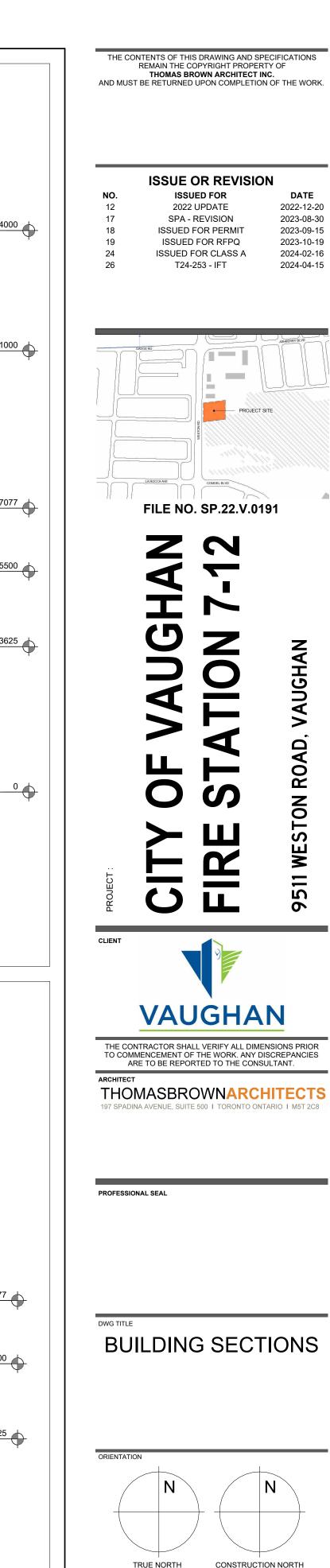
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2021-11-24

TENDER

2104

A7.3

Author

REVISION

26

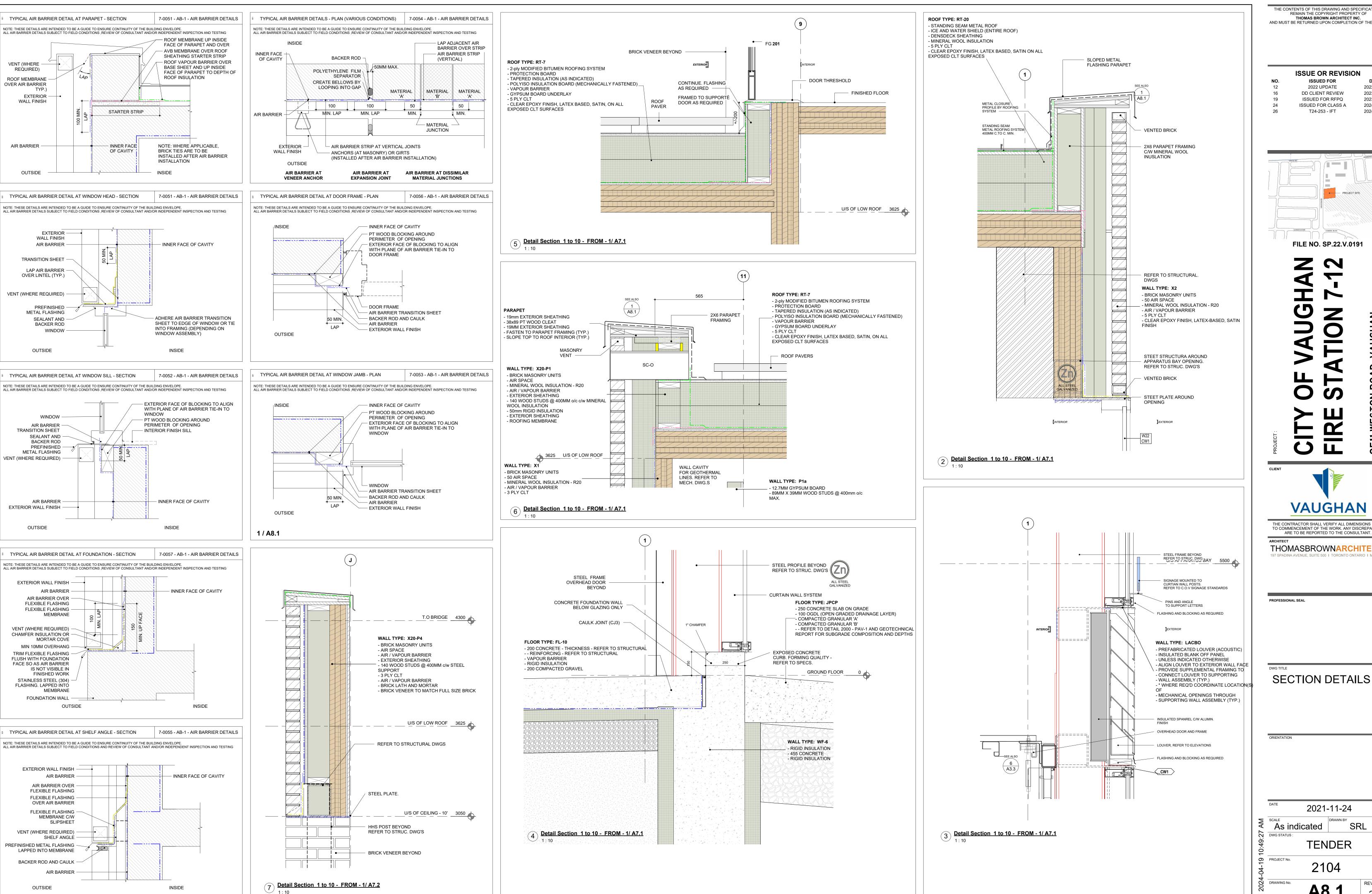
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> **ISSUE OR REVISION** ISSUED FOR 2022 UPDATE 2022-12-20 DD CLIENT REVIEW 2023-07-24 ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 2024-04-15 T24-253 - IFT

LA ROCCA AVE

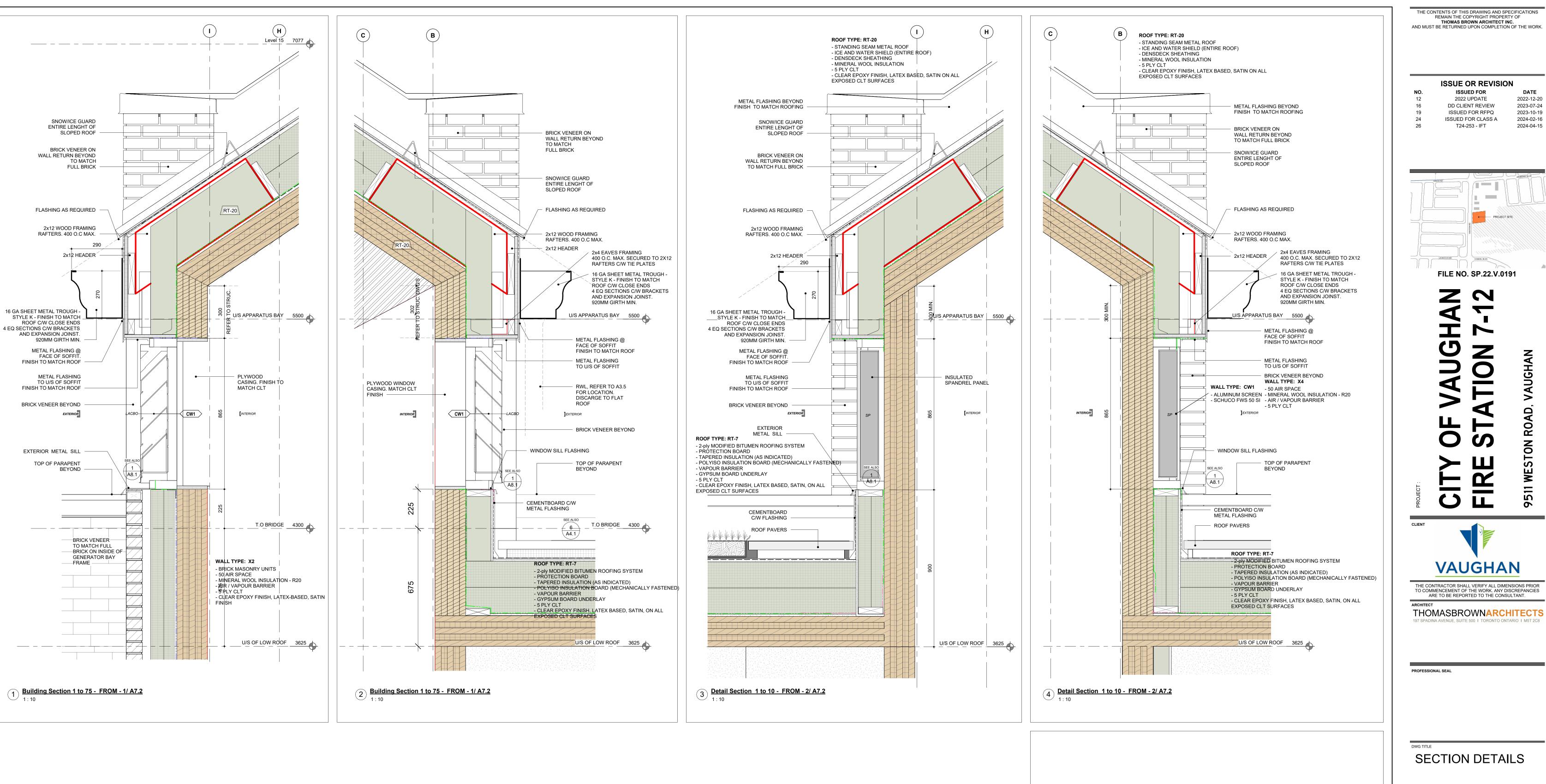
FILE NO. SP.22.V.0191

VAUGHAN TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

THOMASBROWNARCHITECTS

2021-11-24 As indicated

TENDER



2024-04-15 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT. THOMASBROWNARCHITECTS 2X12 EAVES FRAMING

2021-11-24

TENDER

2104

REVISION 26

DWG STATUS :

PROJECT No.

400MM O.C. MAX. NAILED TO ROOF

CLT ROOF AND WALLS

- 2X4 ON JOIST HANGER 400MM O.C. MAX

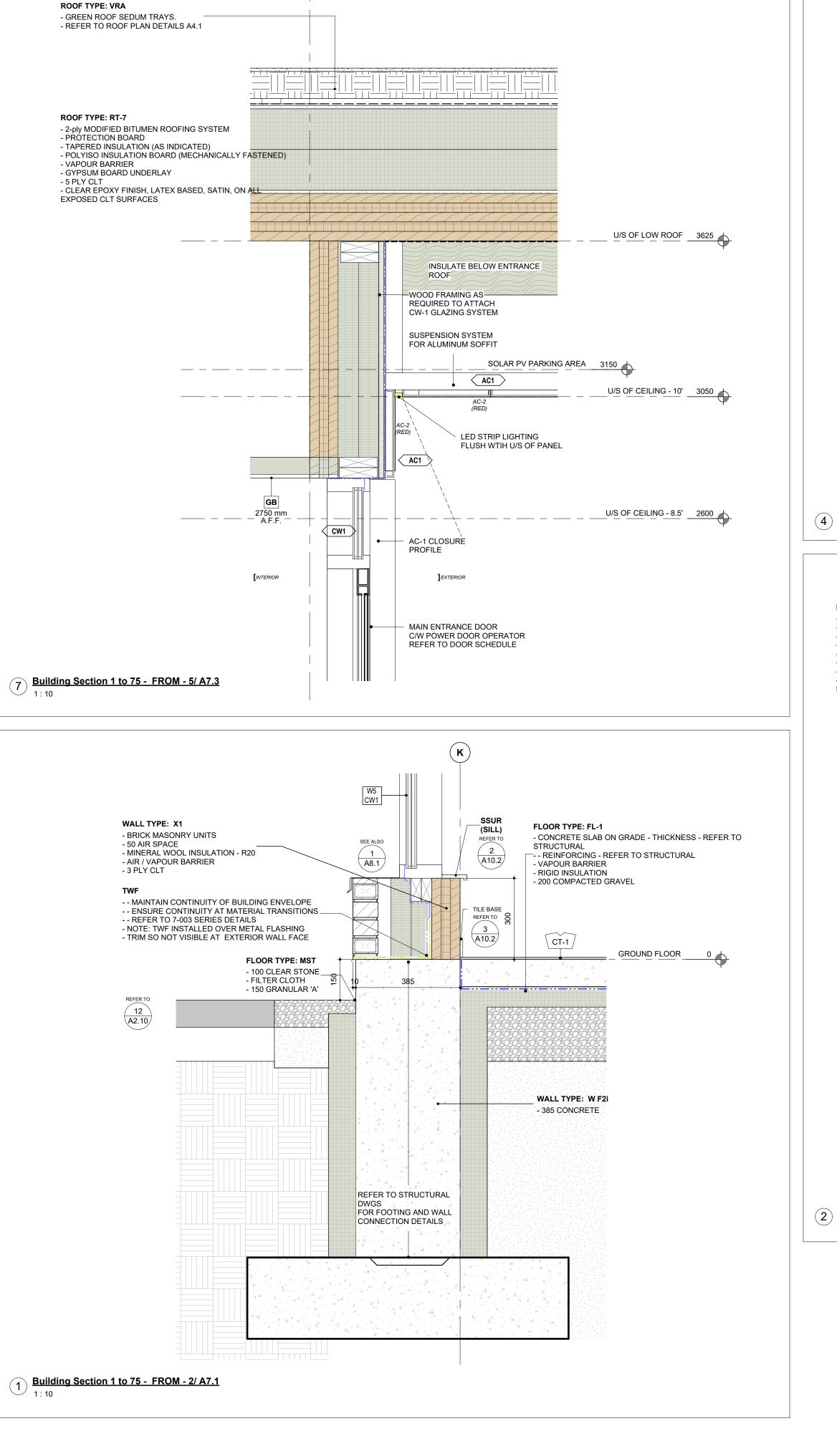
2X12 HEADER

2X4 HEADER

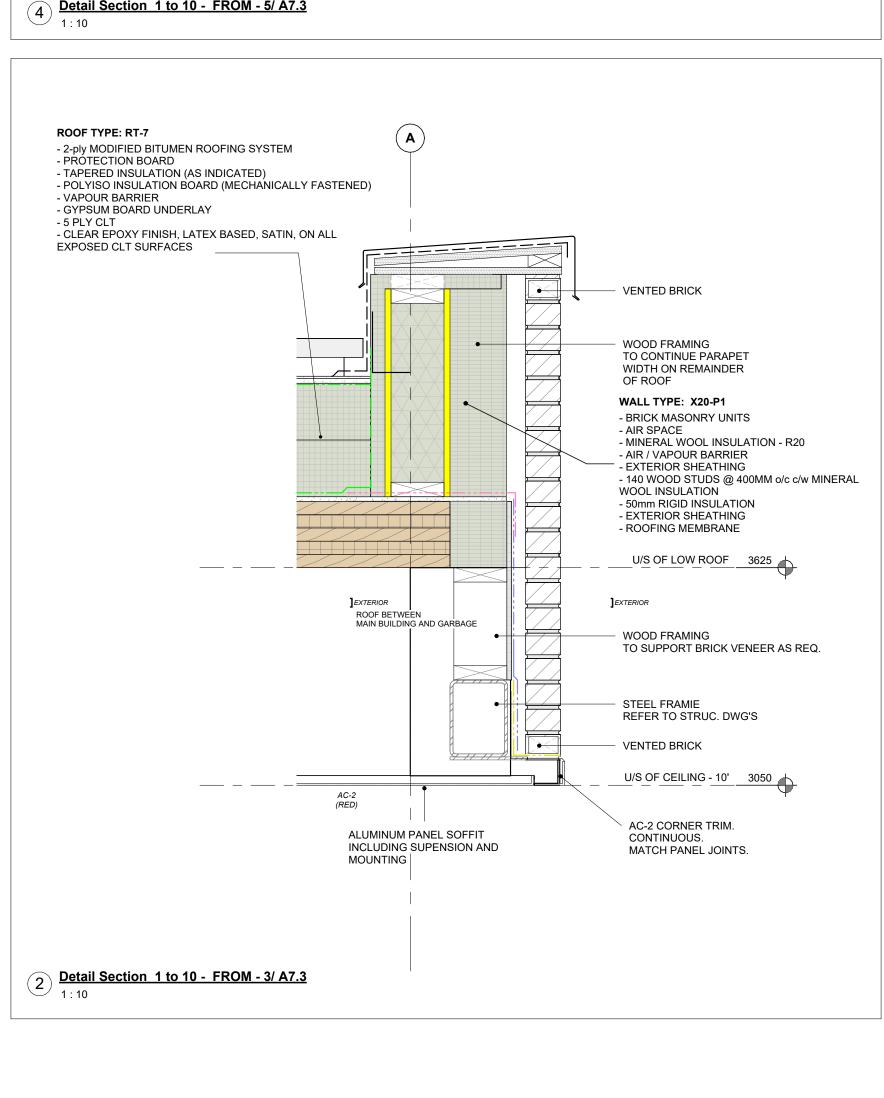
EAVES TROUGH

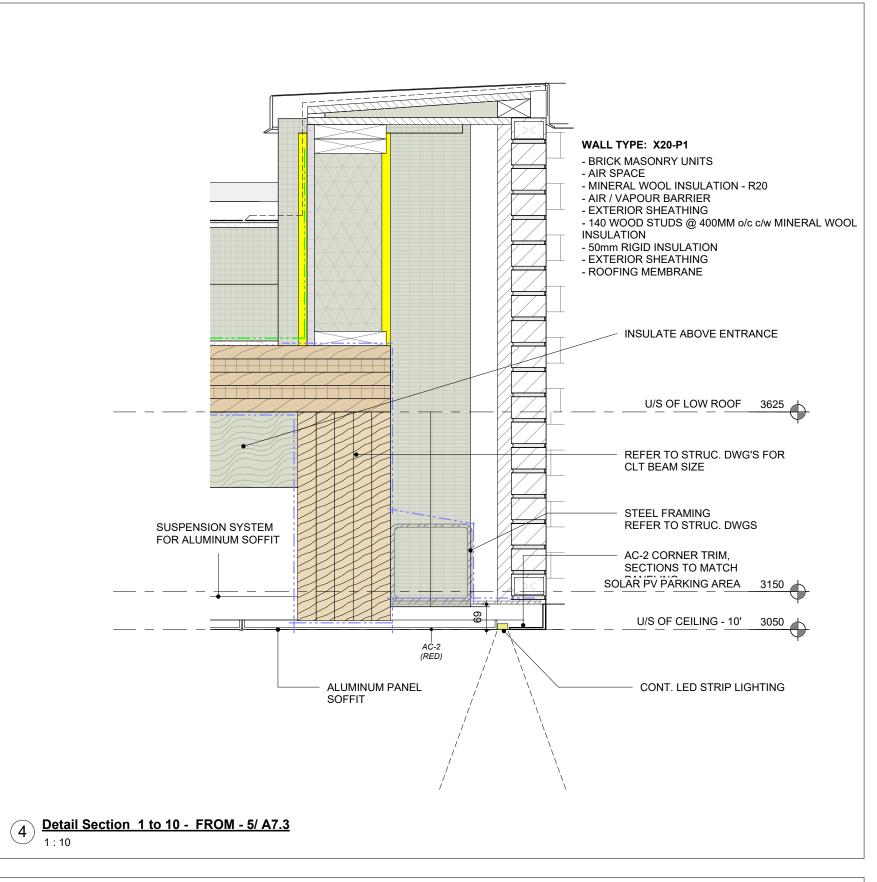
PLYWOOD FRAMING NOT SHOWN ON SCHEMATIC.

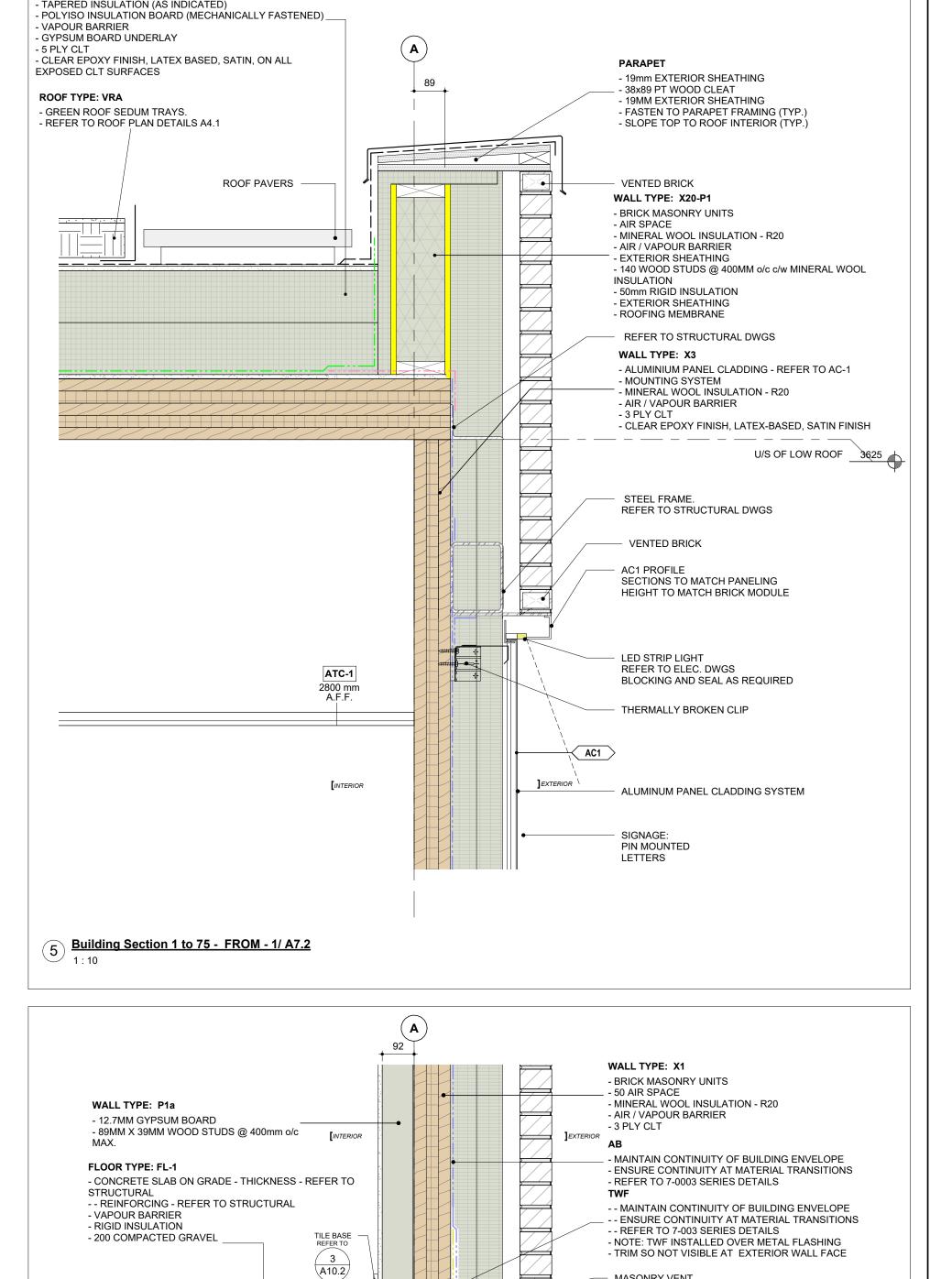
(5) ROOF FRAMING AXO



16)







3 Building Section 1 to 75 - FROM - 2/ A7.1

MASONRY VENT

FLOOR TYPE: SW-14

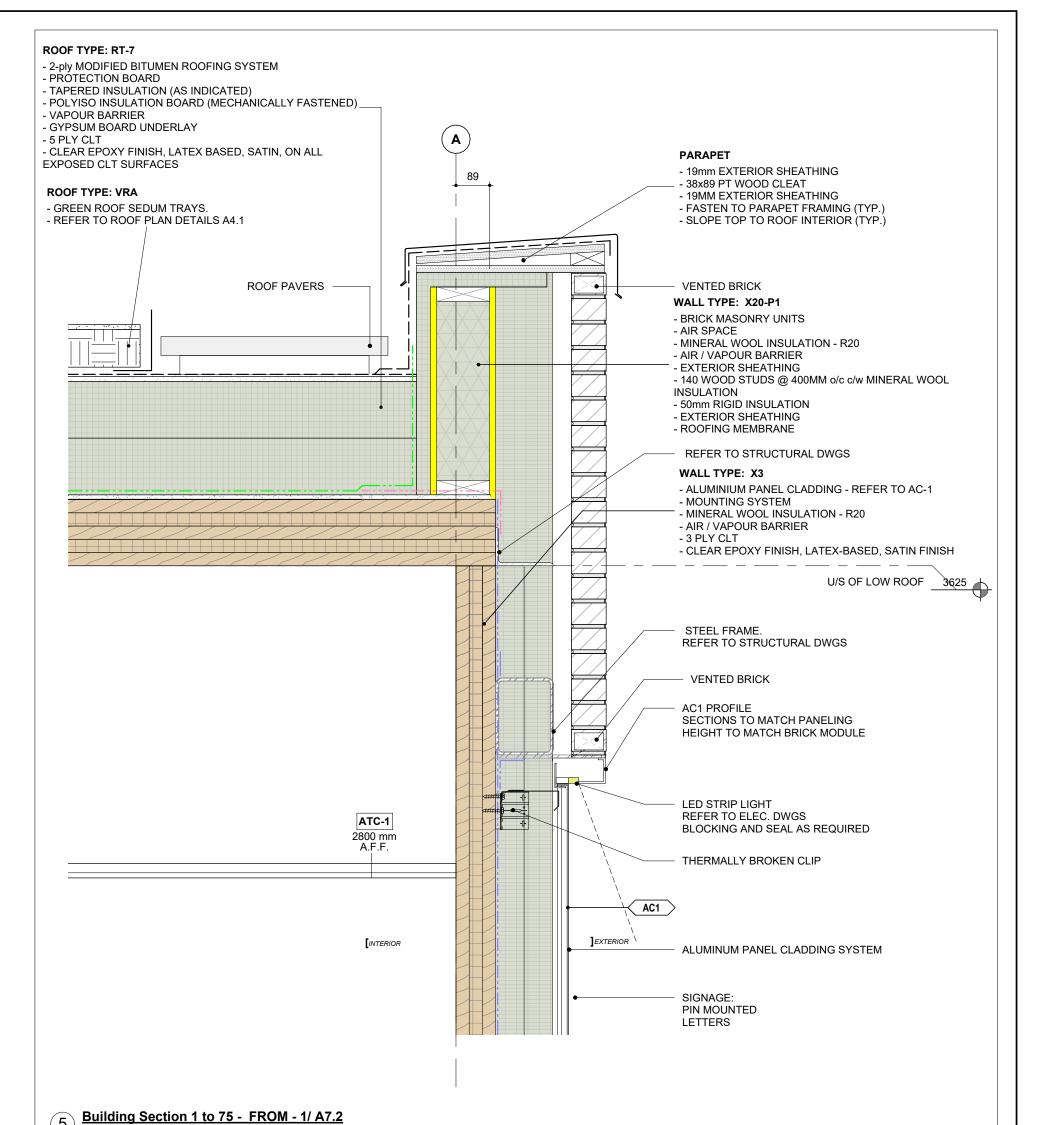
WALL TYPE: W F2i - 385 CONCRETE

REFER TO STRUC. DWG'S FOR FOOTING AND WALL CONNECTION DETAILS

GROUND FLOOR 0

- 125 CÖNCRETE - BROOM FINISH

- 150 GRANULAR 'A' COMPACTED





ISSUE OR REVISION

2022-12-20

2023-07-24

2023-10-19

2024-02-16

2024-04-15

ISSUED FOR

2022 UPDATE

DD CLIENT REVIEW

ISSUED FOR RFPQ

ISSUED FOR CLASS A

T24-253 - IFT

FILE NO. SP.22.V.0191

VAUGHAN

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR

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THOMASBROWNARCHITECTS

SECTION DETAILS

2021-11-24

TENDER

REVISION 26

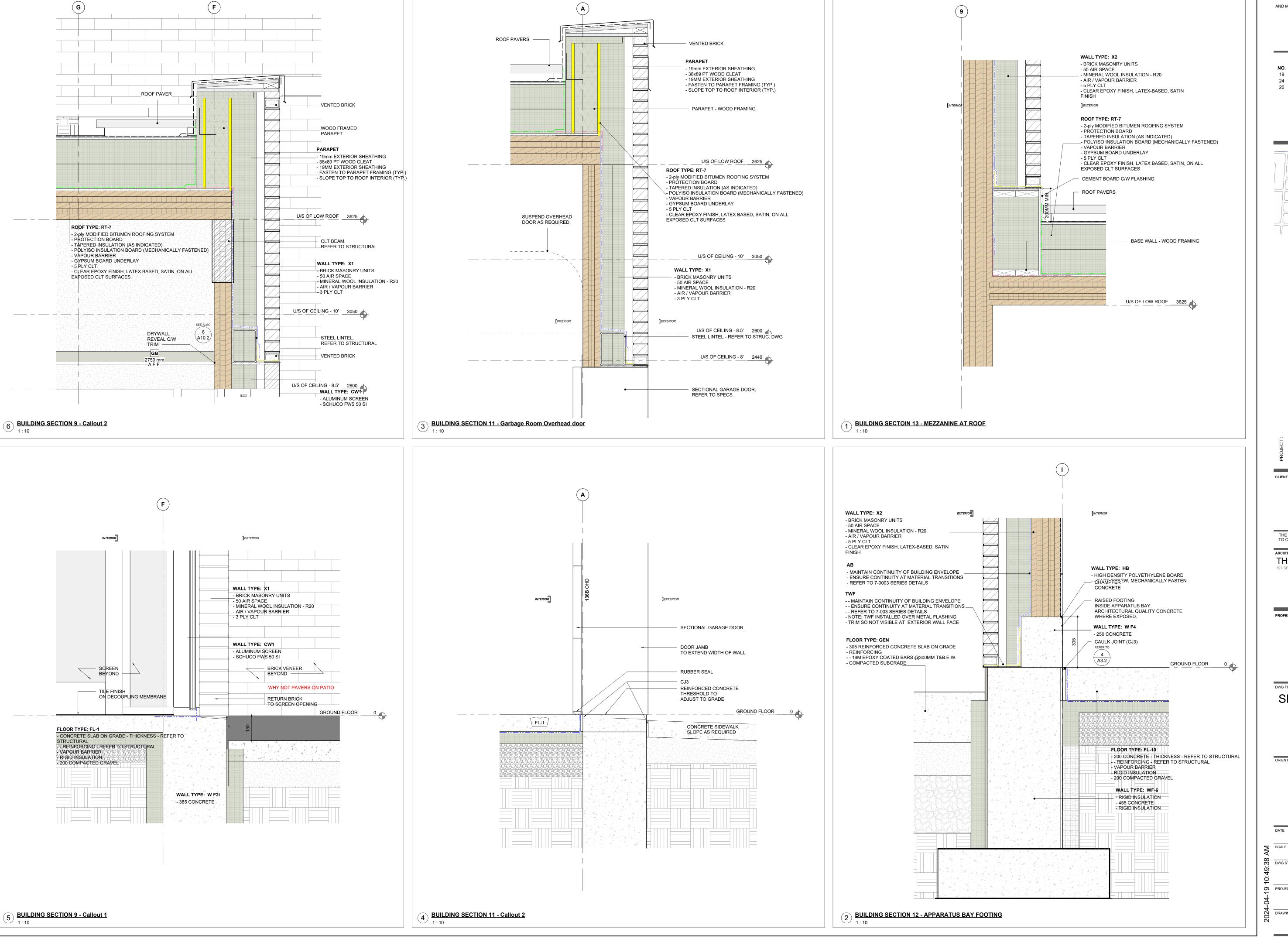
SCALE

DWG STATUS:

PROJECT No.

PROFESSIONAL SEAL

LA ROCCA AVE



ISSUE OR REVISION ISSUED FOR ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 2024-04-15 T24-253 - IFT

LA ROCCA AVE

FILE NO. SP.22.V.0191

VAUGHAN THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR

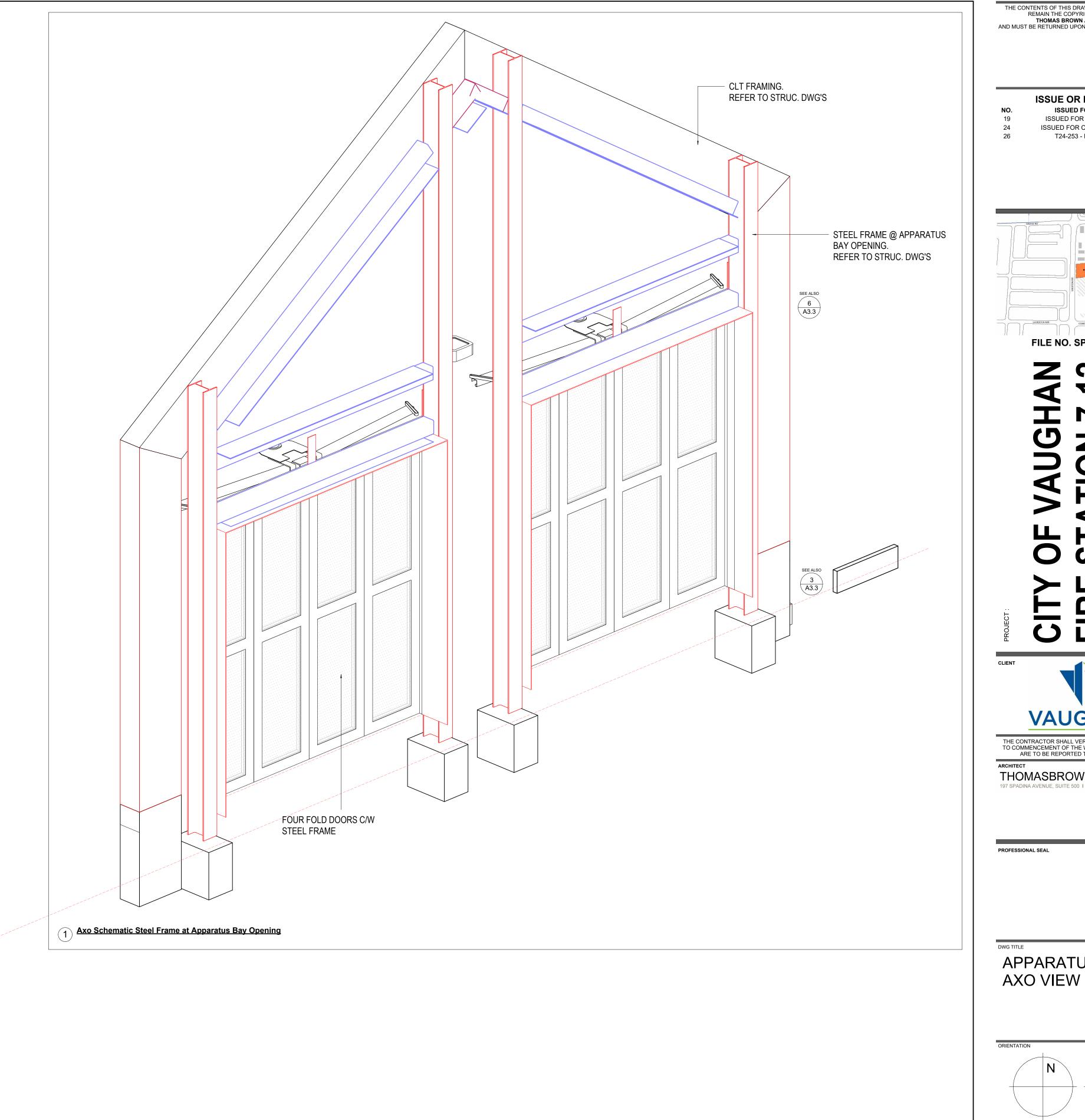
TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT. **THOMASBROWNARCHITECTS**

PROFESSIONAL SEAL

SECTION DETAILS

2021-11-24 DWG STATUS : **TENDER**

→ PROJECT No.



ISSUE OR REVISION

ISSUED FOR ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 2024-04-15 T24-253 - IFT

FILE NO. SP.22.V.0191

VAUGHAN

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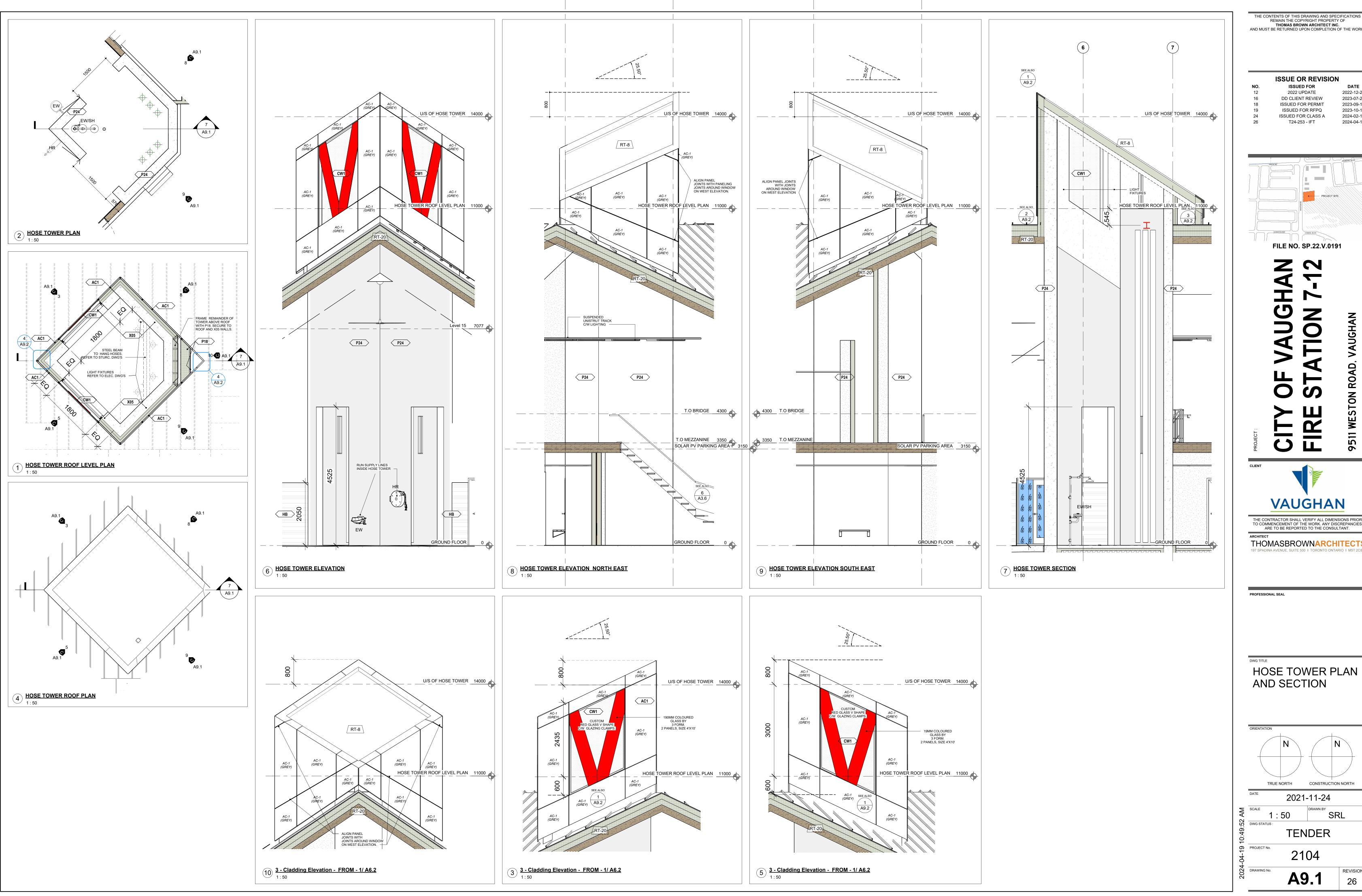
THOMASBROWNARCHITECTS

APPARATUS BAY

2021-11-24 **Author** DWG STATUS :

TENDER

→ PROJECT No.



ISSUE OR REVISION 2022 UPDATE 2023-07-24 DD CLIENT REVIEW ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ 2024-02-16 2024-04-15 ISSUED FOR CLASS A T24-253 - IFT

FILE NO. SP.22.V.0191

VAUGHAN

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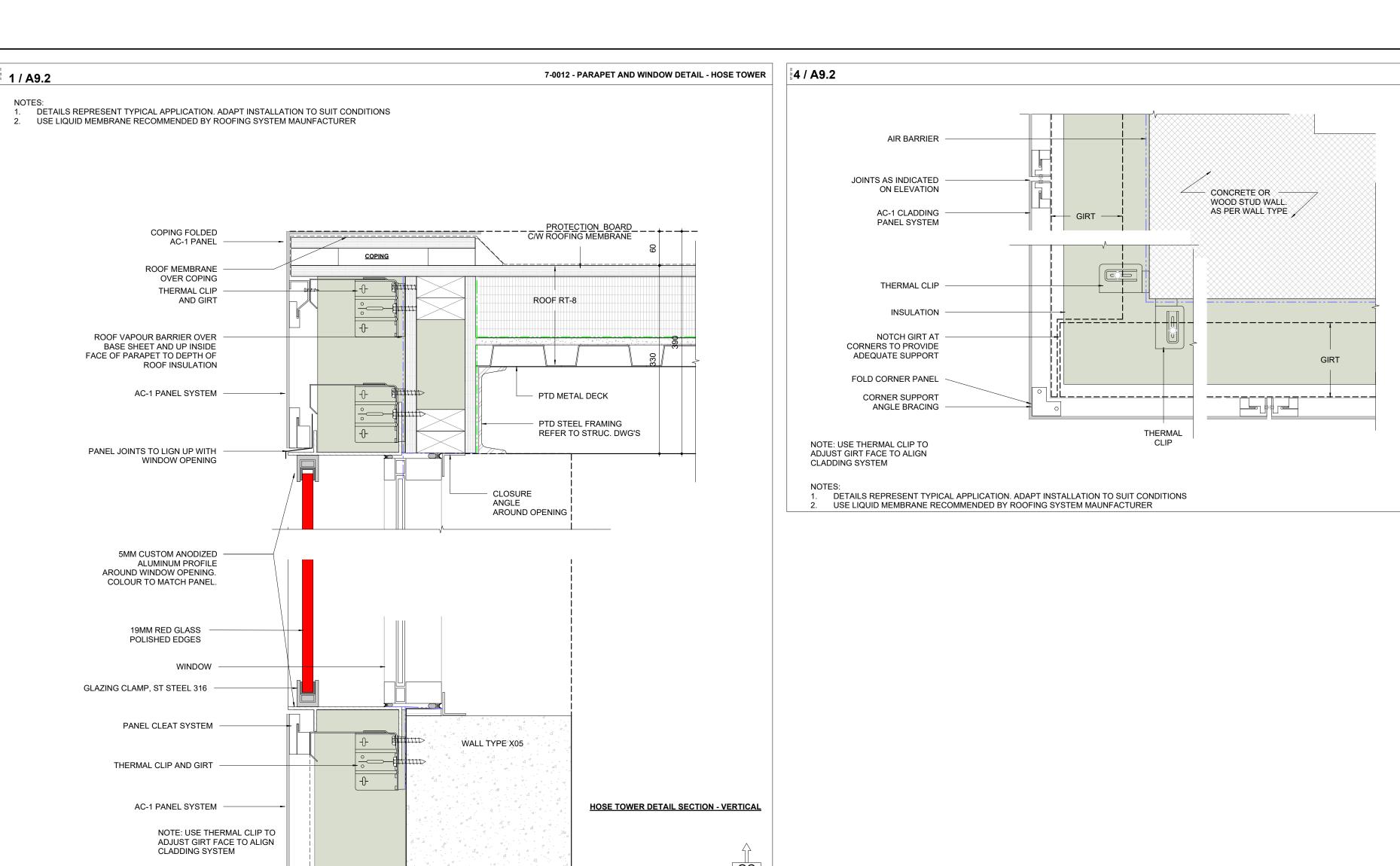
THOMASBROWNARCHITECTS

2021-11-24

TENDER

2104

REVISION A9.1 26



2 / A9.2

INSULATE AS SPECIFIED

CONT. 75X100 16ga. GALV. METAL ANGLE ALONG JOINT (TYP.)

ROOF MEMBRANE AS SPECIFIED -

BAR FASTENED AT 200MM O.C.

FLASHING PROVIDE TERMINATION

WALL TYPE AC-1 —

THERMAL CLIP

COUNTER FLASHING

WITH CAULKING

INSULATION

GIRT -

ZEE CLOSURE — HEAD WALL

STANDING SEAM METAL ROOF

GALV. TRIM

INFILL ROOF

OPEINING WITH

WOOD FRAMING AS REQUIRED

OPENING FRAMING REFER TO STRUC. DWG'S

2. USE LIQUID MEMBRANE RECOMMENDED BY ROOFING SYSTEM MAUNFACTURER

1. DETAILS REPRESENT TYPICAL APPLICATION. ADAPT INSTALLATION TO SUIT CONDITIONS

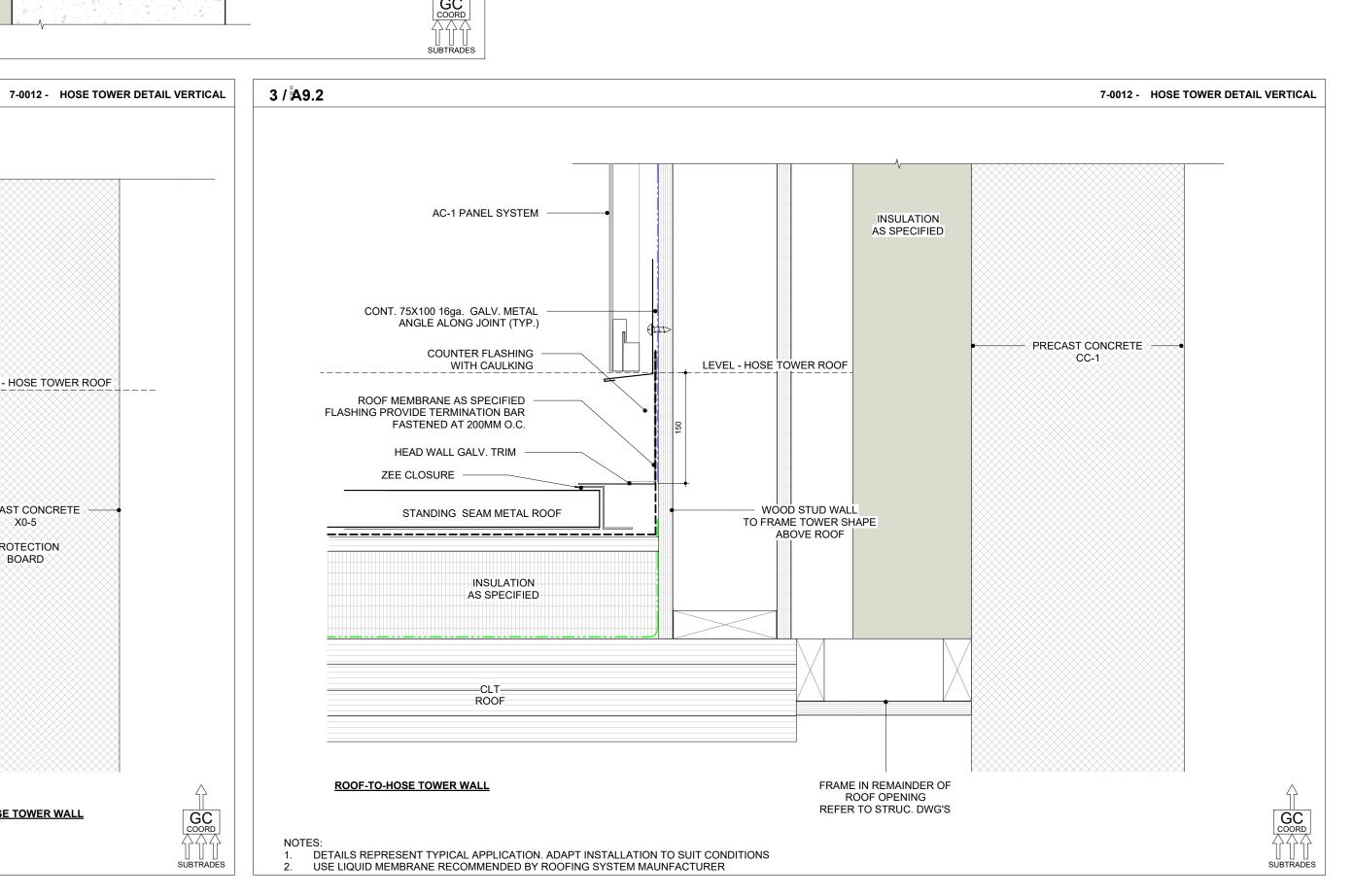
LEVEL - HOSE TOWER ROOF

PRECAST CONCRETE

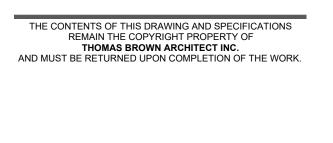
X0-5

PROTECTION

ROOF-TO-HOSE TOWER WALL



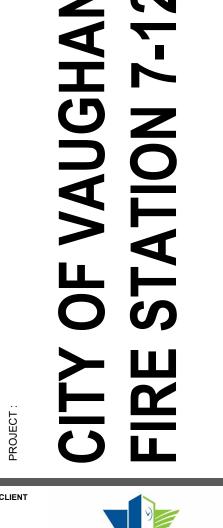
7-0012 - HORIZONTAL WALL SECTION



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







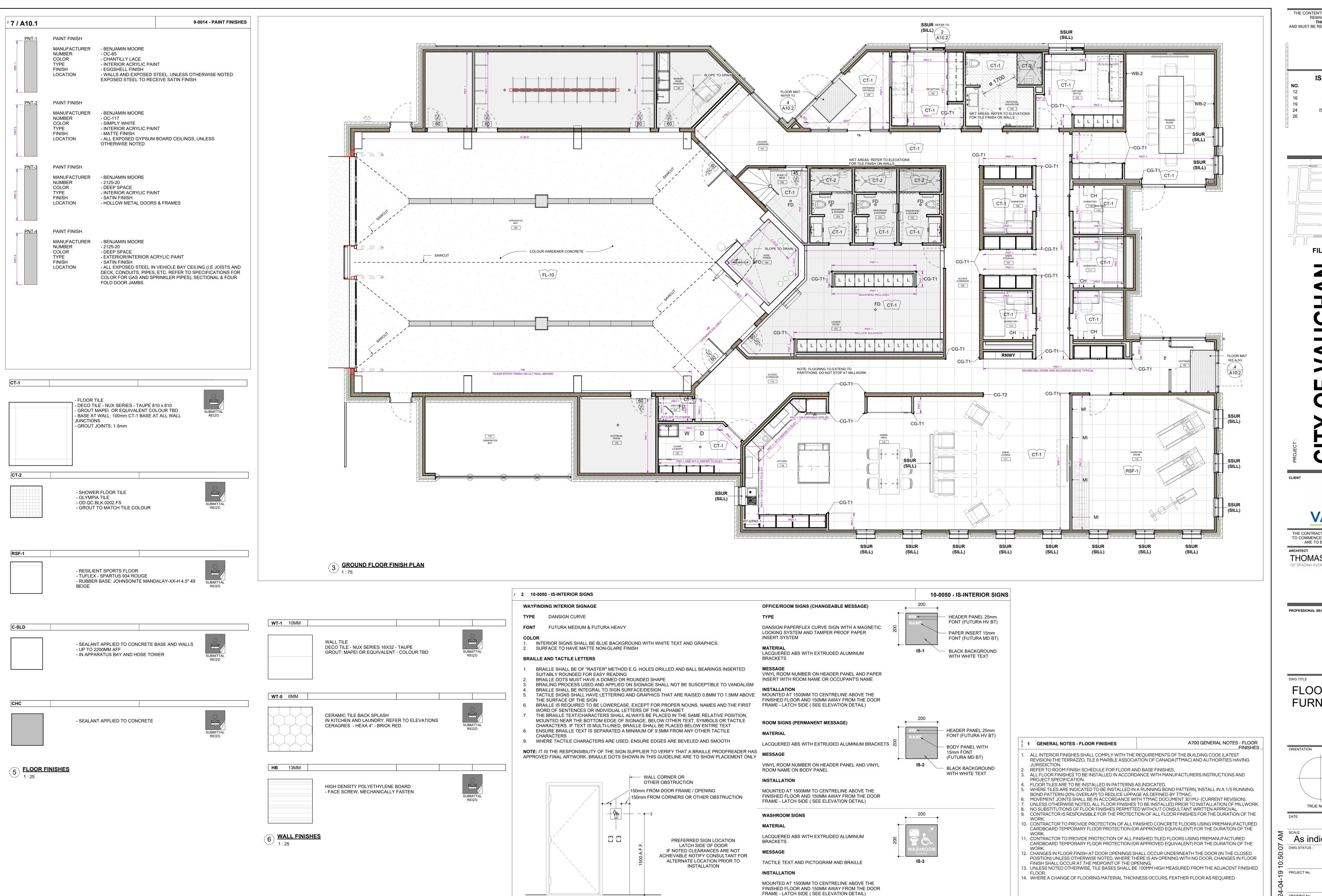


ARCHITECT	
THOMASBROWNARCHIT	ECTS
197 SPADINA AVENUE, SUITE 500 I TORONTO ONTARIO	I M5T 2C8

HOSE TOWER

DETAILS

	DATE	2021-	11-24	
2024-04-19 10:49:54 AM	SCALE 1	: 5	DRAWN BY	L
	TENDER			
	PROJECT No.	21	04	
	DRAWING No.	A 9	.2	REVISION 26



ELEVATION DETAIL

THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS REMAIN THE COPYRIGHT PROPERTY OF THOMAS BROWN ARCHITECT INC. **ISSUE OR REVISION** ISSUED FOR 2022 UPDATE 2022-12-20 DD CLIENT REVIEW 2023-07-24 ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 2024-04-15 T24-253 - IFT

LA ROCCA AVE

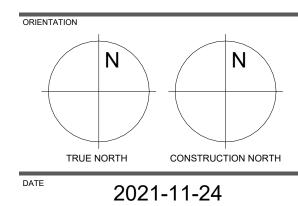
FILE NO. SP.22.V.0191

VAUGHAN

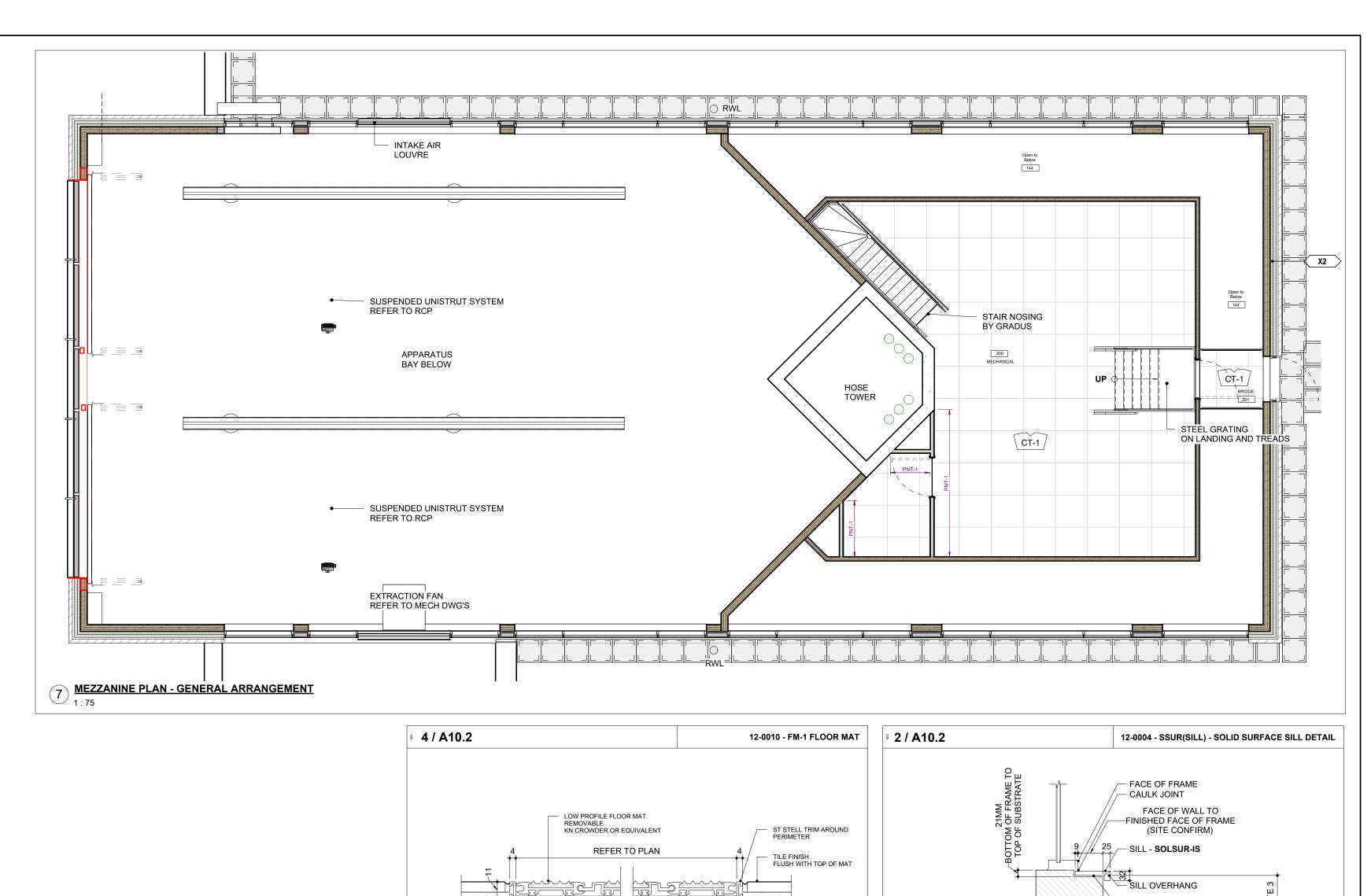
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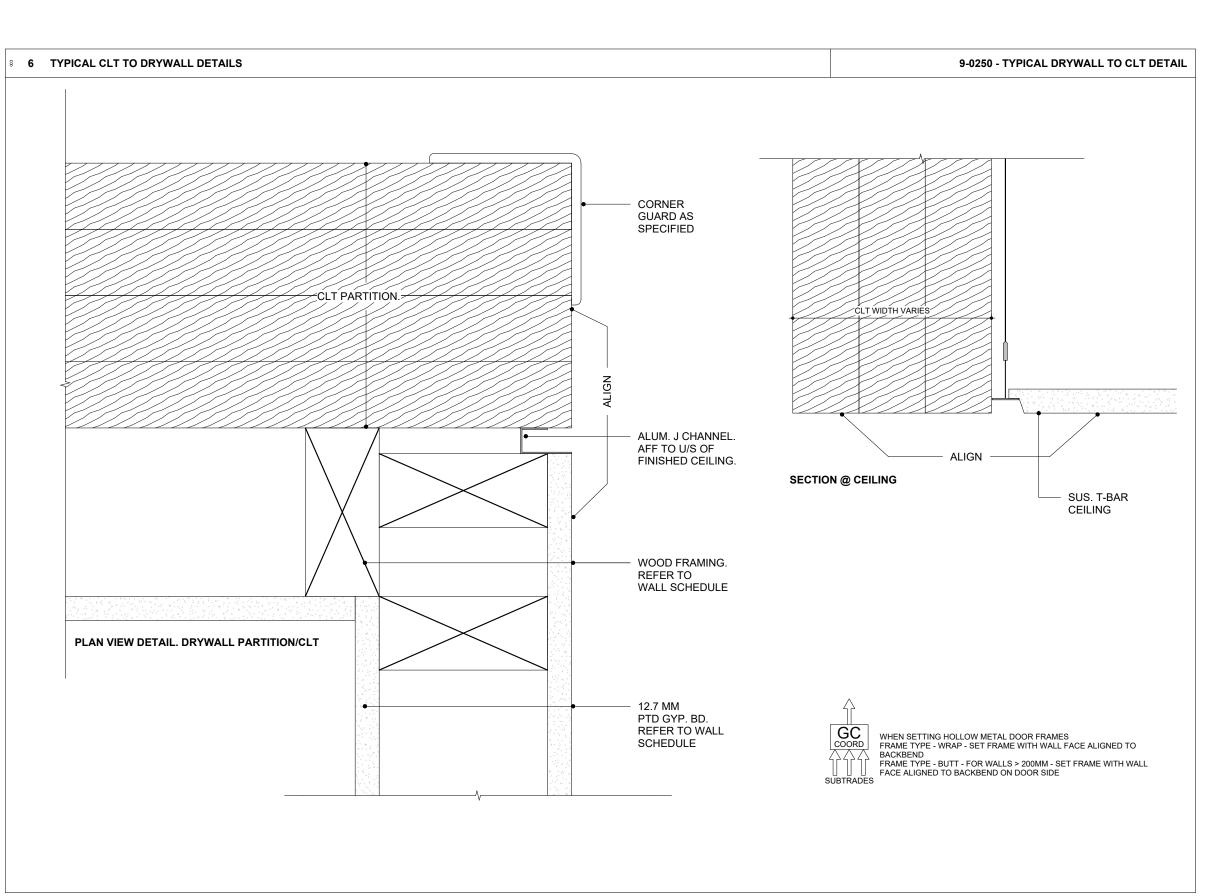
THOMASBROWNARCHITECTS

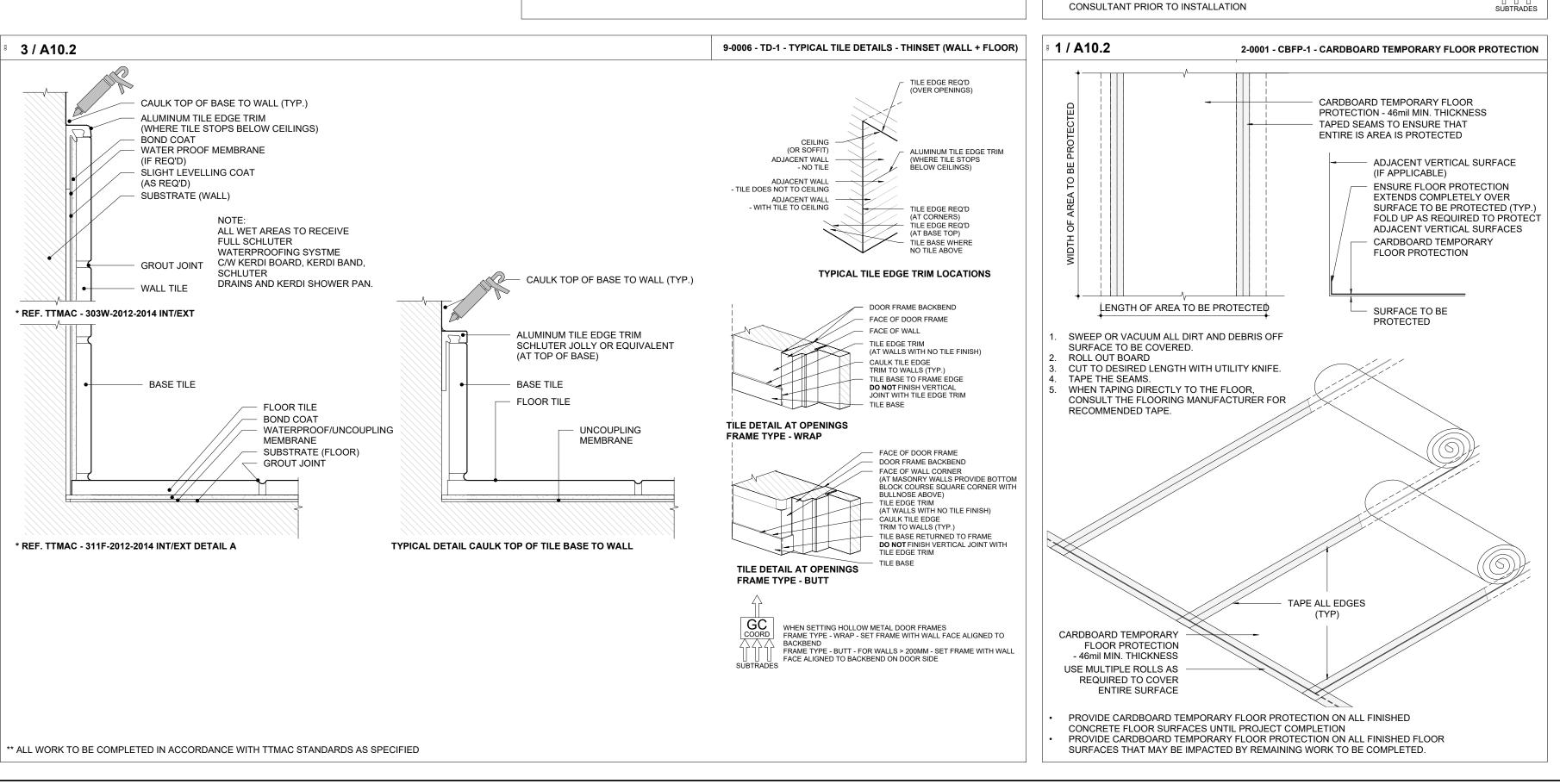
FLOOR FINISH AND FURNITURE PLAN



As indicated







SECTION

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> **ISSUE OR REVISION ISSUED FOR** 2022 UPDATE 2022-12-20 DD CLIENT REVIEW 2023-07-24 2023-10-19 ISSUED FOR RFPQ ISSUED FOR CLASS A 2024-02-16 T24-253 - IFT 2024-04-15

LA ROCCA AVE

FILE NO. SP.22.V.0191

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

THOMASBROWNARCHITECTS

- ADHERE SILL TO SUBSTRATE USING SPECIFIED ADHESIVE FACE OF FINISHED WALL

— LINE OF FINISHED FLOOR

1. SAMPLE SUBMITTAL REQUIRED PRIOR TO FABRICATION

PRIOR TO INSTALLATION

ENSURE SILL PLACED ON LEVEL, SOUND SUBSTRATE SUITABLE FOR THIS APPLICATION 3. ENSURE THAT SILL OVERHANG DOES NOT CONFLICT WITH MECHANICAL OR ELECTRICAL ELEMENTS (i.e. BASEBOARD HEATERS, ETC.). REPORT ANY CONFLICTS TO CONSULTANT

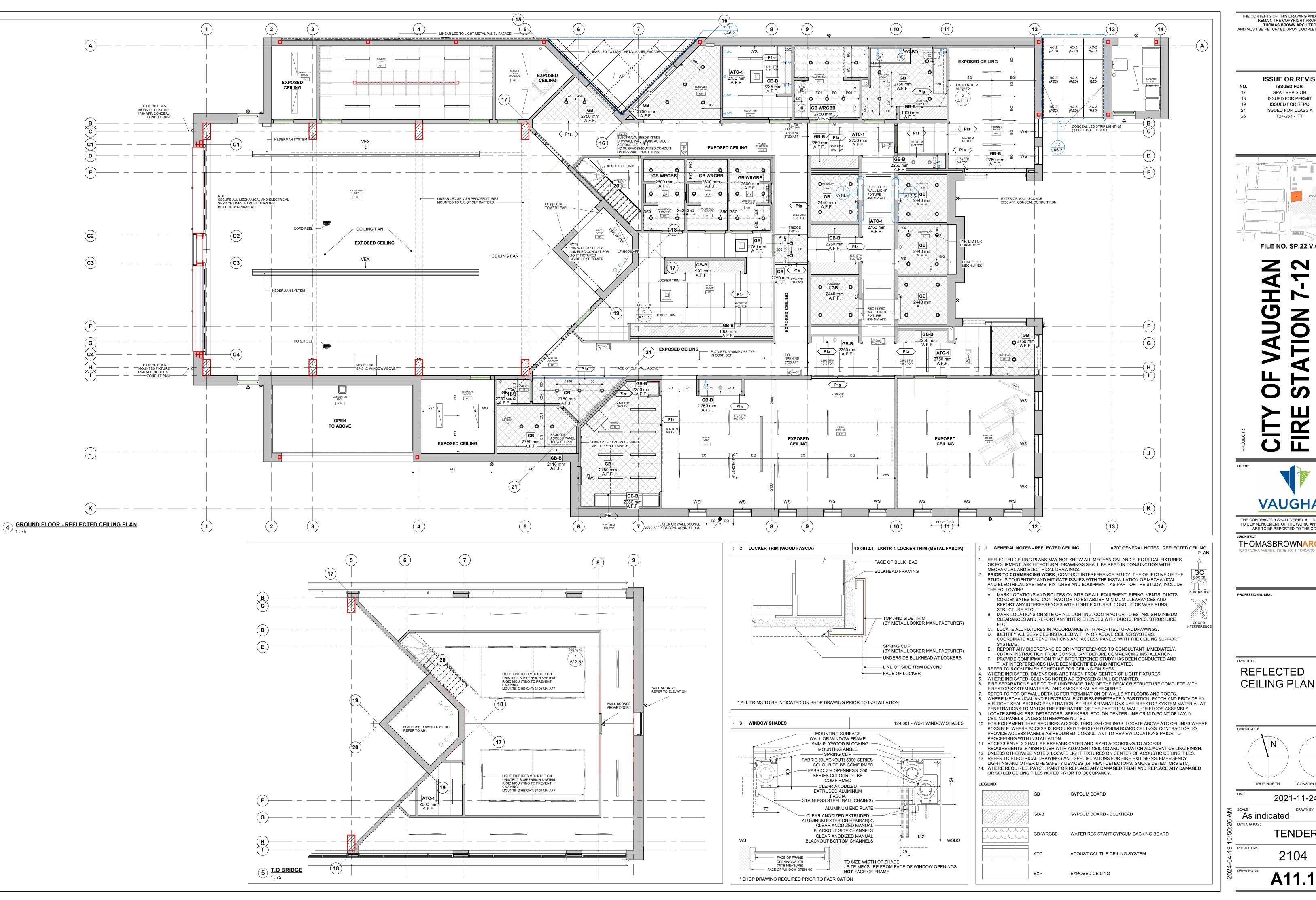
4. ENSURE REQUIRED CLEARANCE FOR SILL OVERHANG. REPORT ANY CONFLICTS TO

FLOOR PLAN FINISH

PLAN AND DETAILS

2021-11-24 As indicated **TENDER**

PROJECT No.



ISSUE OR REVISION

ISSUED FOR CLASS A

T24-253 - IFT

ISSUED FOR SPA - REVISION 2023-08-30 2023-09-15 ISSUED FOR PERMIT 2023-10-19 ISSUED FOR RFPQ

> 2024-02-16 2024-04-15

LA ROCCA AVE

FILE NO. SP.22.V.0191



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

THOMASBROWNARCHITECTS

TRUE NORTH

2021-11-24

As indicated

TENDER



ISSUE OR REVISION SPA - REVISION ISSUED FOR PERMIT 2023-09-15 2023-10-19 ISSUED FOR RFPQ 2024-02-16 2024-04-15 ISSUED FOR CLASS A T24-253 - IFT

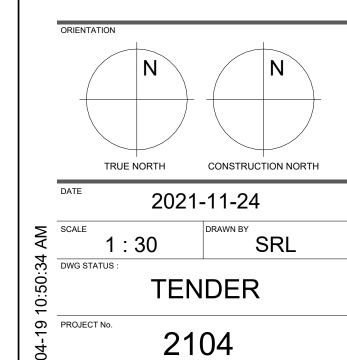


FILE NO. SP.22.V.0191



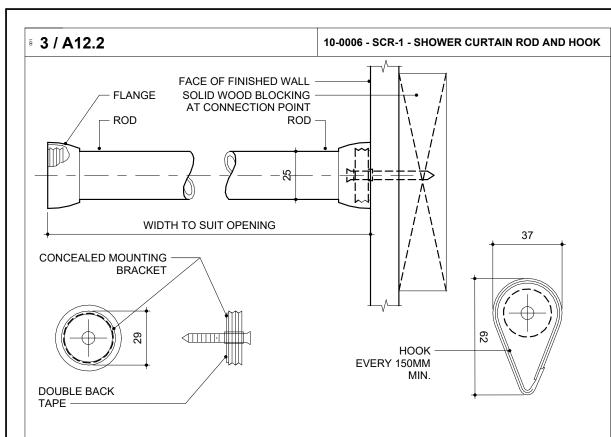
THOMASBROWNARCHITECTS

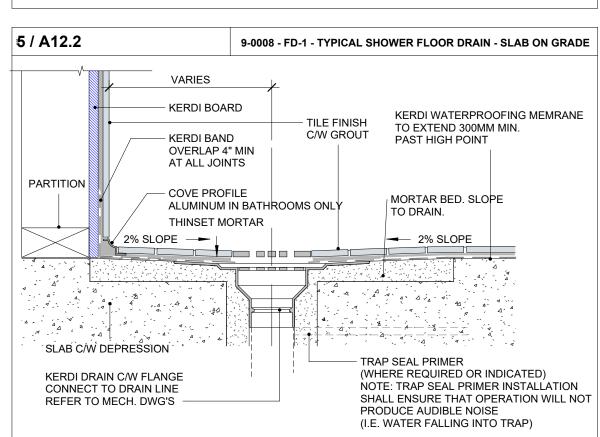
WASHROOM PLAN & **ELEVATIONS**

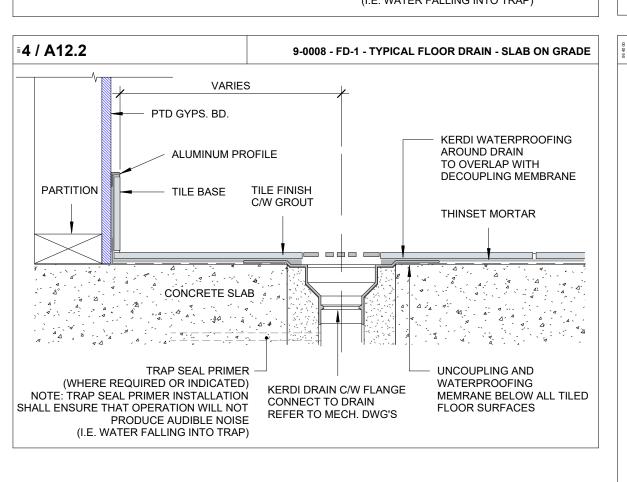


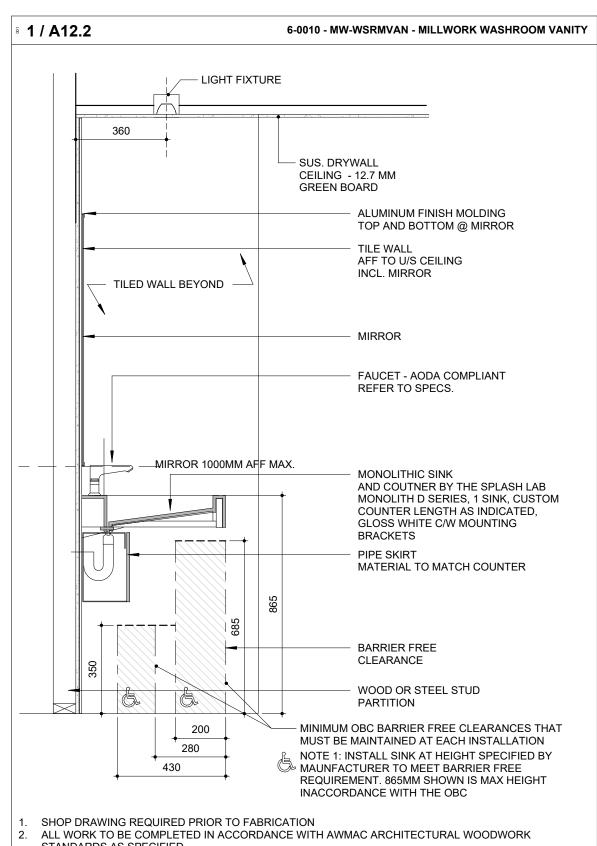
A12.1

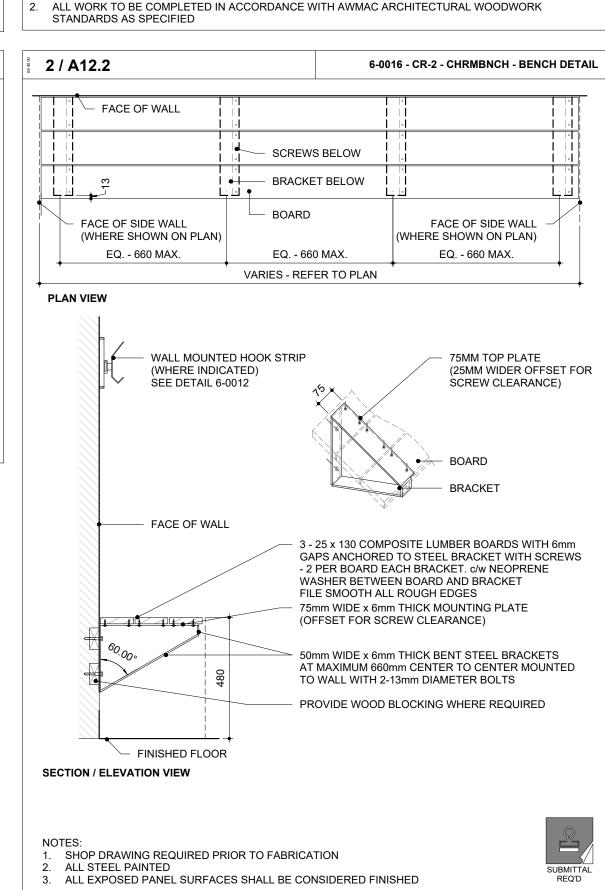
REVISION

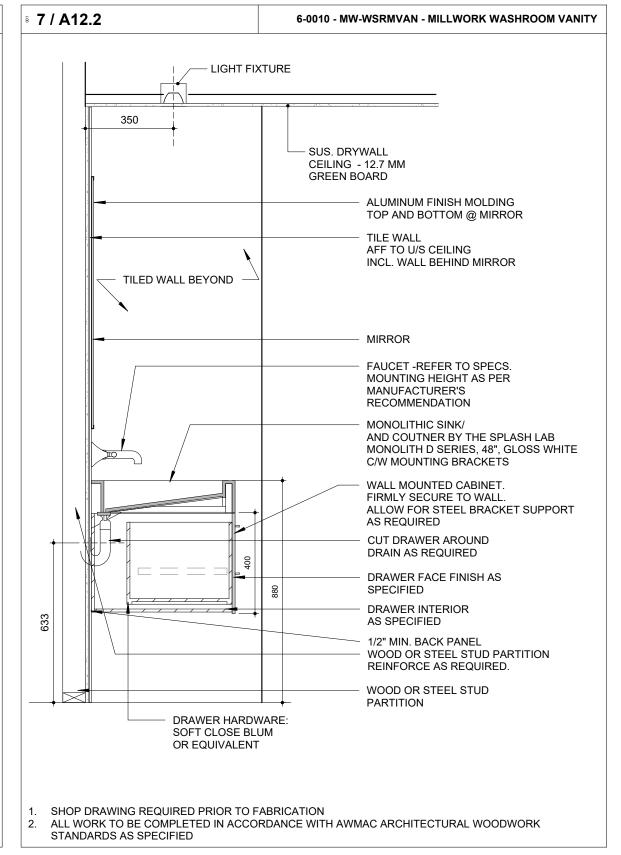












> **ISSUE OR REVISION ISSUED FOR**

2022 UPDATE 2022-12-20 DD CLIENT REVIEW 2023-07-24 ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ 2023-10-19 2024-02-16 ISSUED FOR CLASS A

T24-253 - IFT

2024-04-15



FILE NO. SP.22.V.0191



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THOMASBROWNARCHITECTS

PROFESSIONAL SEAL

WASHROOM

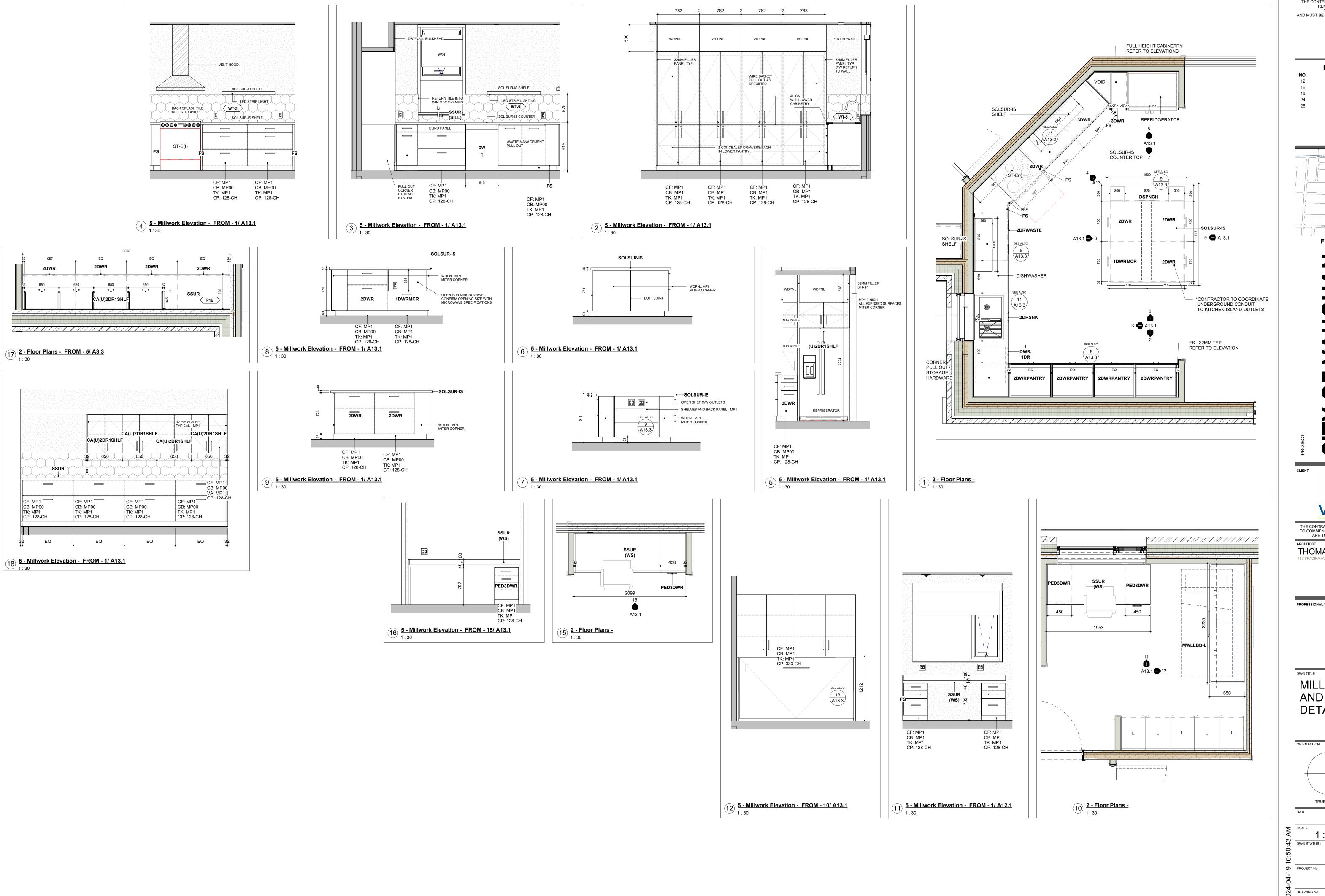
DETAILS

TRUE NORTH CONSTRUCTION NORTH

2021-11-24

 As indicated DWG STATUS :

TENDER PROJECT No.



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2022-12-20 2023-07-24 DD CLIENT REVIEW 2023-10-19 ISSUED FOR RFPQ ISSUED FOR CLASS A 2024-02-16 2024-04-15 T24-253 - IFT



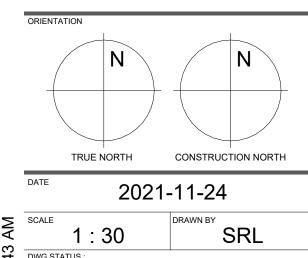
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THOMASBROWNARCHITECTS

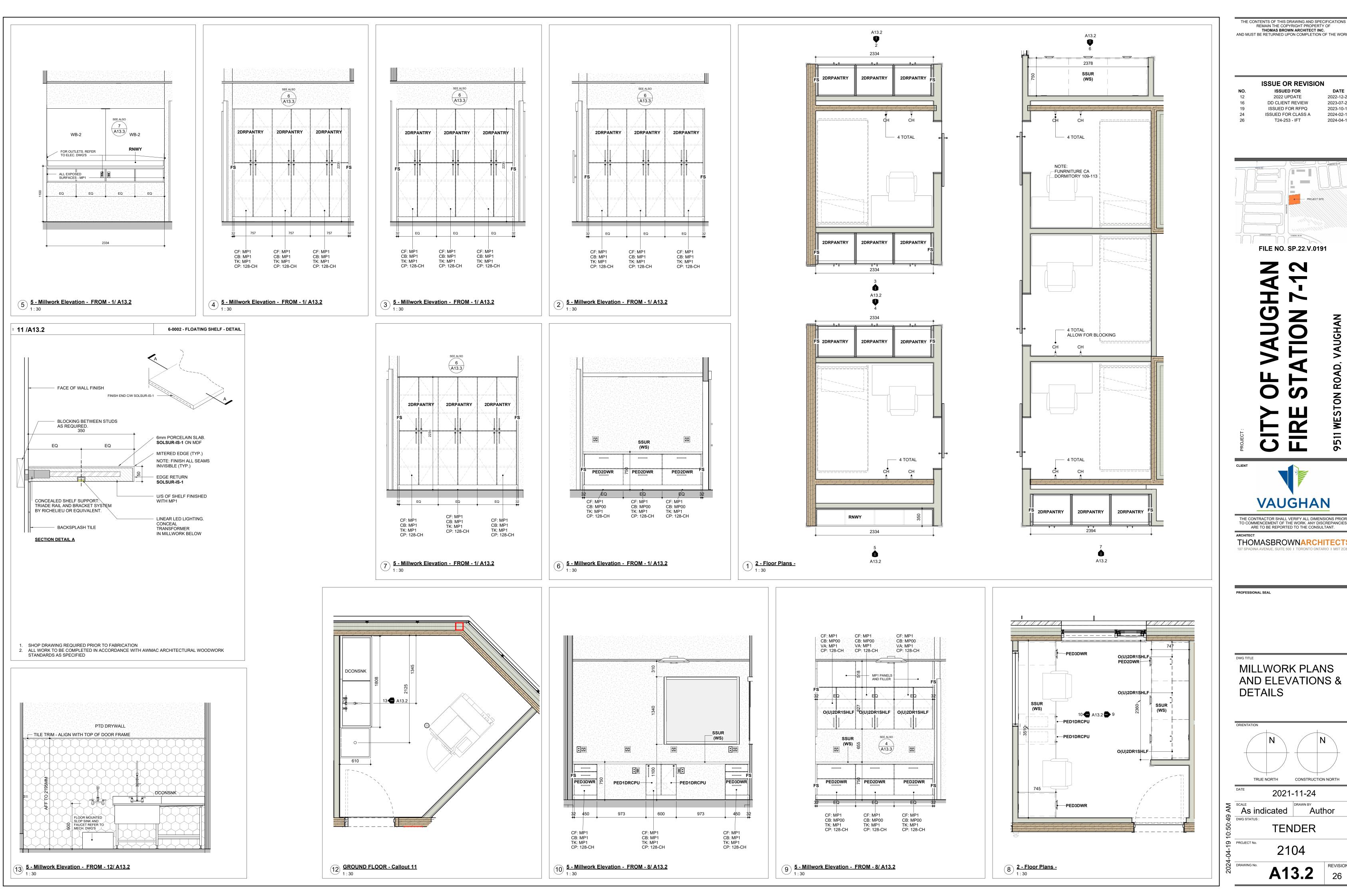
MILLWORK PLANS AND ELEVATIONS & **DETAILS**



TENDER

2104

A13.1



> **ISSUE OR REVISION** 2022 UPDATE 2022-12-20 2023-07-24 DD CLIENT REVIEW 2023-10-19 ISSUED FOR RFPQ ISSUED FOR CLASS A 2024-02-16 2024-04-15 T24-253 - IFT

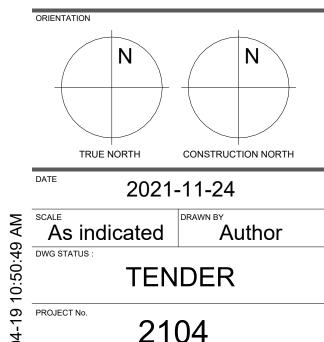
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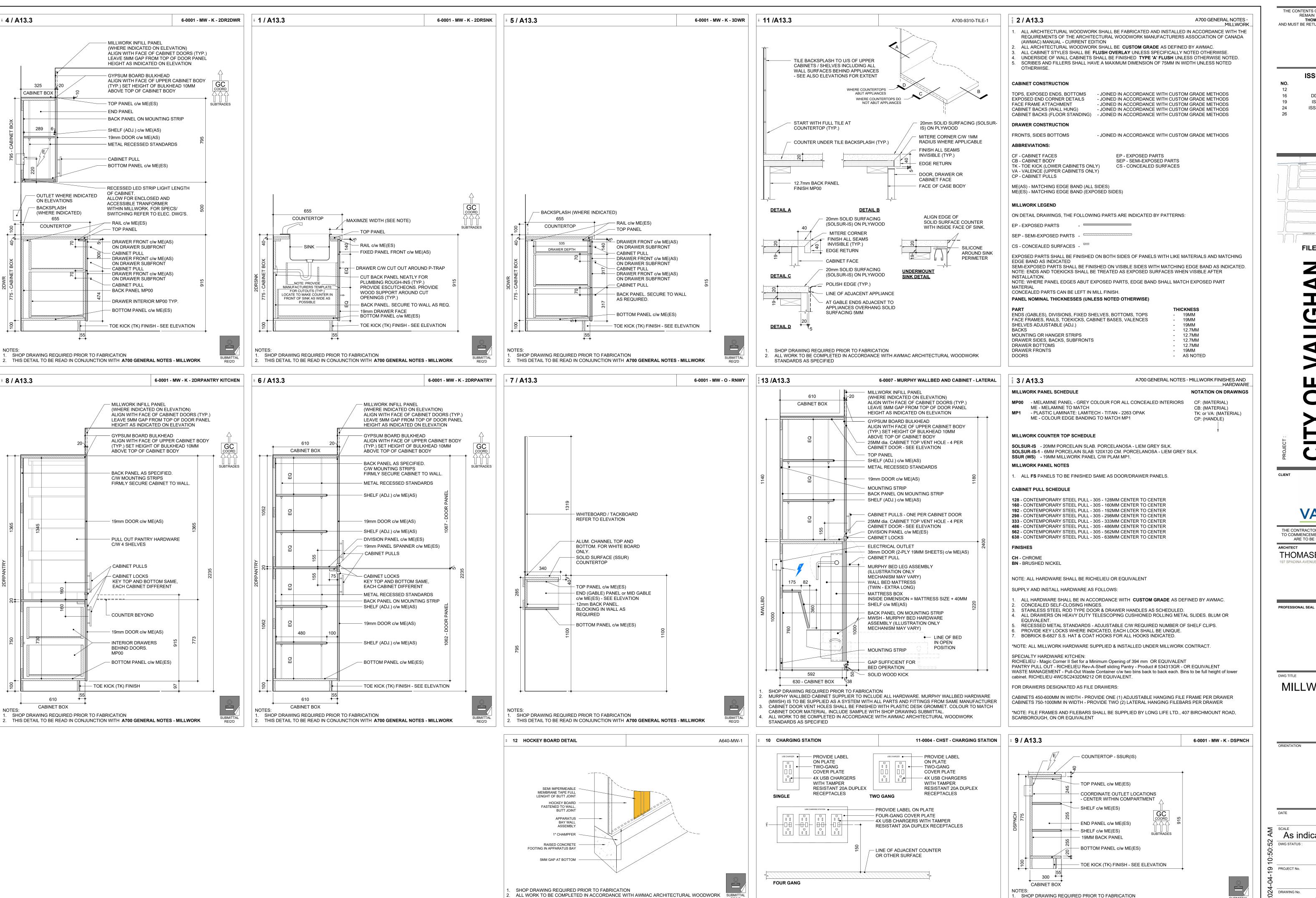
VAUGHAN

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THOMASBROWNARCHITECTS

MILLWORK PLANS AND ELEVATIONS &





STANDARDS AS SPECIFIED

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ISSUE OR REVISION

2022 UPDATE DD CLIENT REVIEW 2023-07-24 ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 T24-253 - IFT 2024-04-15



FILE NO. SP.22.V.0191

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THOMASBROWNARCHITECTS

MILLWORK DETAILS

2. THIS DETAIL TO BE READ IN CONJUNCTION WITH A700 GENERAL NOTES - MILLWORK

2021-11-24 As indicated **TENDER**

		DII	MENSIO	NS	MATERIALS		
MODEL	COUNT	DEPTH	WIDTH	HEIGHT	FINISH	COMMENTS	SPECIFICATION
IIIODEE			>			COMMENTO	or Estimation
CCLID (CILL)	4	400	1715	10	NAATT	I	
SSUR (SILL) SSUR (SILL)	2	169 169	1745 2173	12 12	MATT MATT		
SSUR (SILL)	2	169	4622	12	MATT		
SSUR (SILL)	2	169	4804	12	MATT		
SSUR (SILL)	3	169	4829	12	MATT		
OCOTT (OILL)	10	103	4023	12	IVIZTI		
CAPTAINS OFFICE							
SSUR (SILL)	1	167	1685	12	MATT	PORCELAIN	06 40 00
SSUR (WS)	1	762	.000	0	MATT	. 3.1322,	06 40 00
	2						
CLEAN LAUNDRY							
SSUR	1	655	0	0			
	1				1		
CREW LOUNGE							
SSUR (SILL)	3	<varie< td=""><td>900</td><td>12</td><td>MATT</td><td>PORCELAIN</td><td>06 40 00</td></varie<>	900	12	MATT	PORCELAIN	06 40 00
		s>					
	3						
DINING AREA		0.4	000	40		DODOE! AIN!	20.40.00
SSUR (SILL)	2	91	900	12	MATT	PORCELAIN	06 40 00
SSUR (SILL)	1	134	2725	12	MATT	PORCELAIN	06 40 00
SSUR (WS)	4	762		0	MATT		06 40 00
EXERCISE ROOM	-						
SSUR (SILL)	6	<varie< td=""><td>900</td><td>12</td><td>MATT</td><td>PORCELAIN</td><td>06 40 00</td></varie<>	900	12	MATT	PORCELAIN	06 40 00
SSOIT (SILL)		s>	300	12	IVIATI	ORCLEAIN	00 40 00
	6						
KITCHEN							
SSUR (SILL)	1	191	885	12	MATT	PORCELAIN	06 40 00
	1				1		
RECEPTION							
SSUR (SILL)	1	138	1685	12	MATT	PORCELAIN	06 40 00
SSUR (WS)	2	745		0	MATT		06 40 00
	3						
TRAINING ROOM							
SSUR (SILL)	2	116	900	12	MATT	PORCELAIN	06 40 00
SSUR (WS)	1	750		0	MATT		06 40 00

SCHEDULE - ARC NOTES: ALL CABINET SL LOCKING CABINI	IDES AI	ND HING ALL BE	SES SHA	ALL BE	RENT U	NLESS	NOTED											
THIS SCHEDULE		IOT LIS MENSIO		NTERTO		LS AN		R ENGII	NEEREI	STONE IT	EMS HARDWA	RE						
	ОЕРТН	WIDTH	неіснт	FINISH	CABINET BODY	CABINET FRONTS	MATCHING EDGE BAND	VALENCE MATERIAL	LOCKING	CABINET PULLS	HINGES	DRAWER SLIDE	SHELF SUPPORTS	MOUNT	POWER REQ'D	VALENCE LIGHT		i i
MODEL 1 DWR, 1DR	610	400	8 75	TFL	MP00		MP1	>	_	128-CH	n/a	CORNER PULL OUT HARDWAR E - MAGIC CORNER BY RICHELIE U	n/a	WDBLK	<u> </u>	>	COMMENTS	1
ACCESS CORRID	OR				I												1	
2DRPANTRY 2DRPANTRY RNWY	610 610 350	757 775 2334	2235 2235 1100	LAM	MP1 MP1	MP1 MP1 MP1	MP1 MP1 MP1		•	128-CH 128-CH	4 SETS 4 SETS n/a	n/a n/a n/a	4 SETS 4 SETS n/a	WDBLK WDBLK WDBLK		•		3 3 1
CAPTAINS OFFIC		2235	1220	LAM	MP1	MP1	MP1			333 CH	4 SETS +	n/a	4 SETS	WDBLK	•	•		1
											SPECIAL - MWSH,							
PED3DWR CLEAN LAUNDRY	725	450	710	IFL	MP1	MPT	MP1			128-CH	n/a	3 SETS	n/a	WDBLK				
2DWR CA(U)2DR1SHLF	610 325	957 650	875 2235		MP00 MP00		MP1	MP1		128-CH 128-CH	n/a 2 SETS	2 SETS n/a	n/a 1 SET	WDBLK WDBLK		•		4
DINING AREA																		
PED3DWR DORMITORY	725	450	710	TFL	MP1	MP1	MP1			128-CH	n/a	3 SETS	n/a	WDBLK				1
DORWITORT																		5
EXTERIOR																		7
KITCHEN																	1	
(U)2DR1SHLF	610	920	475	LAM			MP1	MP1		128-CH	2 SETS	n/a	1 SET	WDBLK				1
1 DWR, 1DR 1DWRMCR	610	750	875 875	LAM	MP00 MP1		MP1 TBA - Millwor k - MP1 - Birch Plywo od - Edging			128-CH 128-CH	n/a n/a	3 SETS 1 SET	n/a n/a	WDBLK n/a				1
2DRSNK 2DRWASTE 2DWR	610 610 610	900 895 750	875 875 875	LAM	MP00 MP00 MP00	MP1	MP1 MP1 TBA - Millwor k - MP1 - Birch Plywo od -			128-CH 128-CH 128-CH	2 SETS 2 SETS n/a	n/a n/a 2 SETS	n/a n/a n/a	WDBLK WDBLK WDBLK			COORDINATE CUTOUTS FOR DRAINS	1 1 3
2DWRPANTRY	610	784	2235			MP1	Edging MP1		•	128-CH	4 SETS	n/a	4 SETS	WDBLK				4
3DWR 3DWR 7068-9SS-C	610 610	306 850	875 875	TFL	MP00 MP00		MP1 MP1			128-CH 128-CH	n/a n/a	3 SETS 3 SETS	n/a n/a	WDBLK WDBLK				2
DSPNCH	300	858	875	TFL	MP1	MP1	MP1			n/a	n/a	n/a	n/a	n/a				1
LINEN STORAGE 2DRPANTRY	610	757	2235	TFL	MP1	MP1	MP1		•	128-CH	4 SETS	n/a	4 SETS	WDBLK				6
LOCKER ROOM CR-2	470	990	500															1
RECEPTION	710	J 330	300		<u>I</u>	<u>I</u>	1				1					<u> </u>	1	
O(U)2DR1SHLF PED1DRCPU	325 725	764 300	2235 710	TFL FR	MP00 MP1		MP1	MP1	•	128-CH 128-CH	2 SETS 1 SET	n/a n/a	1 SET n/a	WDBLK WDBLK		•	SIDE PANEL CUTOUT FOR VENTILATION	3
PED2DWR PED3DWR	725 725	764 450	710 710	LAM		MP1	MP1			128-CH 128-CH	n/a n/a	2 SETS 3 SETS	n/a n/a	WDBLK WDBLK				3
TRAINING ROOM				,										1000				
PED2DWR	725	772	710	LAM	MP00	MP1	MP1			128-CH	n/a	2 SETS	n/a	WDBLK				3

	DIRECTION	OPENING					DOO	R AND F	FRAME	CONST	RUCTI	ON								OP	ERATI	ON				ACCE	ss co	ONTRO	DL	I	UNCT	ION	
					DOC	ORS			FRAI	MES		FRR		AC	CESS	ORIES																	
No. FROM	то	WIDTH	DOOR TYPE	THICKNESS	DOOR MATERIAL	DOOR FINISH	INSULATED	LOUVER FRAME TYPE	FRAME MATERIAL	FRAME FINISH		SMOKE SEAL	ASTRAGAL	THRESHOLD	I KANSI I ION SI KIP WEATHERSTRIP	DOOR SWEEP	WALL STOP	DOOR OPERATOR	PTL FUNCTION	DOOR CLOSER	PUSHBAR	DOOR PULL PANIC SET	KICKPLATE	PUSHPLATE	CARD READER	DOOR CONTACT	ELECTRIC STRIKE	KEYPAD	REA SIGNAGE	STOREROOM	OFFICE/PRIVACY		COMMENTS
3	10																																COMMENTO
100B ACCESS CORRIDOR	ENTRANCE VESTIBULE	1095 2424	FG	51	AL	AL	• •	BU	TT Al	L AI	L)						•				• •			•	•	•		•				
115A VESTIBULE	ACCESS CORRIDOR	1075 2424		51	AL	AL	• •	BU		L AI	L ()						•				• •			•	•	•		•				
G																																	'
100A ENTRANCE VESTIBUI	_E FOYER	1098 2429	FG	51	AL	AL	• •	BU	TT Al	L AI	L C)		•	• •	•		•		•		•			•	•	•						
105B PATIO	TRAINING ROOM	1063 2429	FG	51	AL	AL	• •	BU	TT Al	L AI	L C)		•	• •	•				• •					•	•	•	•	•	•			
114 ACCESS CORRIDOR	PATIO	1063 2393	FG	51	AL	AL	• •	BU	TT Al	L AI	L C)		•	• •	•				• •					•	•	•		•	•			
115B VESTIBULE	EXTERIOR	1088 3014	FG	51	AL	AL	• •	BU	TT Al	L Al	L C)		•	• •	•		•								•	•	-	•	•			
201 BRIDGE		1078 2389	FG	51	AL	AL	• •	BU	TT Al	L AI	L C)		•	•	•										•	•		•	•			
FD														·					•														
129E APPARATUS BAY	EXTERIOR	4200 4200	FFD	50	MTL	PREFIN	• •	N/	'A MT	TL PN	IT ()			•	•																	
129F APPARATUS BAY	EXTERIOR	4200 4200	EED	50	NATI	DDEEIN	• •	NI/	'A MT	TI DN	IT C	1				•																	

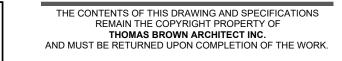
HOLLOW METAL DOOR SCHEDULE

NOTES: GLAZED PANELS IN RATED DOORS SHALL BE FIRE RATED GLAZING AS SPECIFIED. FOR CLARITY, DOORS ARE SORTED BY TYPE, THEN BY ROOM NUMBER IN THIS SCHEDULE.

		DIRECTION	OPE	NING					D	DOOR A	ND FRAME	CON	ISTRU	CTION								OPER/	ATION				ACC	CESS (CONTR	OL		FUNCTIO	NC.	
							DOC	RS			FRAM	ES		FRR	AC	CESSO	ORIES																	
No. FROM		то	WIDTH	НЕІСНТ	DOOR TYPE	THICKNESS	DOOR MATERIAL	DOOR FINISH	INSULATED GLAZED	LOUVER	FRAME TYPE FRAME MATERIAL	FRAME FINISH		FIRE RATING SMOKE SEAL	ASTRAGAL THRESHOLD	TRANSITION STRIP	WEATHERSTRIP DOOR SWEEP	WALL STOP		INCTION	DOOR CLOSER	DOOR LEVER	DOOR PULL	PANIC SET	KICKPLATE PIISHDI ATE	CARD READER	DOORBELL	BOOK CONTACT ELECTRIC STRIKE	KEYPAD	REX		STOREROOM OFFICE/PRIVACY	PASSAGE	COMMENTS
New Construction											'	'	,		'		'						'		,			'						
FG																																		
102 ACCESS C	CORRIDOR	RECEPTION	965	2150		44	HM	PNT		W	RAP HM			0					•		•	•											•	
116 ACCESS C	CORRIDOR	EXERCISE ROOM	965	2150	FG	44	HM	PNT	•	W	RAP HM	PN		0				'	•		•	•											•	
129A ACCESS C	CORRIDOR	APPARATUS BAY	1060	2100	FG	44	НМ	PNT	•	В	UTT HM	PN	VT (60 •							•	•		•	•								1 1	FIRE RATED GLASS AS PER SPECIFICATIONS
129B APPARATI	US BAY	ACCESS CORRIDOR	1060	2106	FG	44	НМ	PNT	•	В	UTT HM	PN	NT (60 •							•	•		•	•									FIRE RATED GLASS AS PER SPECIFICATIONS
М																																		
103 ACCESS C	CORRIDOR	UNIVERSAL WASHROOM	965	2150	М	44	HM	PNT		W	RAP HM			0					•	•	•	•			•			•				•		
104 ACCESS C		CAPTAINS OFFICE	965	2150	М	44	HM	PNT			RAP HM	_		0				'	•		•	•										•	<u> </u>	
120 CLEAN LA		ACCESS CORRIDOR	965	2150	М	44	НМ	PNT			RAP HM			0		•						•												DOOR GRILL
121A ACCESS C		LOCKER ROOM	965	2150	М	44	HM	PNT			RAP HM	_		-							•		•		•	<u> </u>							<u> </u>	
122 LOCKER F		WASHROOM & SHOWER	965	2150	М	44	НМ	PNT			RAP HM			-				•				•									4	•		DOOR GRILL 12X12 - PAINTED
123 LOCKER F		WASHROOM & SHOWER	965	2150	М	44	НМ	PNT			RAP HM							•				•										•		DOOR GRILL 12X12 - PAINTED
124 LOCKER F	ROOM	WASHROOM & SHOWER	965	2150	М	44	HM	PNT		W				0				•				•									4	•		DOOR GRILL 12X12 - PAINTED
127 JANITOR		ACCESS CORRIDOR	965	2150	М	44	HM	PNT		W	RAP HM	PN	١T	0		•						•												DOOR GRILL 12X12 - PAINTED
128 ACCESS C		STAIR TO MEZZ	965	2150	М	44	НМ	PNT		W	RAP HM	PN	11	45 •				•			•	•			•									FIRE RATED GLASS AS PER SPECIFICATIONS
136A GARBAGE	ROOM	EXTERIOR	965	2150	М	44	HM	PNT	•	В	UTT HM	PN	١T	0	•		• •				•								•				<u> </u>	
139 MECHANIC			965	2150	М	44	HM	PNT			RAP HM			0					•		•	•						• •	•				•	
200 MECHANIC	CAL	BRIDGE	965	2150	M	44	НМ	PNT		W	RAP HM	PN	NT _	0							•		•			•							<u> </u>	
NL1																																		
121B APPARATI		LOCKER ROOM	965	2150		44	HM	PNT	•		RAP HM			30				•	•		•			_	•								•	
129C APPARATU		EXTERIOR	965	2150		44	HM		• •		UTT HM	_		0	•		• •				•				•	•		• •		•	\perp		<u> </u>	
129D EXTERIOR		APPARATUS BAY	965	2150		44	HM		• •		UTT HM				•		• •				•	•			•	•		• •		•				
130 APPARATI		BUNKER GEAR WASHING	965	2150		44	HM	PNT	•		RAP HM			30					•		•				•								•	
131A APPARATI		BUNKER GEAR	965	2150		44	HM	PNT	•		RAP HM			30					•		•				•								•	
131B APPARATU		BUNKER GEAR	965	2150		44	HM	PNT	•		RAP HM			30				<u> </u>			•			_	•						_		•	
132 APPARATI		SPRINKLER ROOM	965	2150		44	HM	PNT	•		RAP HM			30					•		•			_	•				•				•	
133 APPARATI	US BAY	ELETRICAL ROOM	965	2150	NL1	44	НМ	PNT	•	W	RAP HM	PN	NT 6	30					•		•				•								•	
FG		TD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.5=											•																				
105A ACCESS C	CORRIDOR	TRAINING ROOM	965	2150	FG	44	НМ	PNT	•	W	RAP HM	PN	N F	0					•		•	•											•	
TOTAL:: 25																																		

DI	RECTION	OPE	NING					DOOR	AND FR	AME CO	NSTRU	CTION	I							OPE	RATIO	N			AC	CESS	CONT	ROL		FUN	CTIO	N	
		Ŧ	Ŧ	R TYPE	KNESS	R MATERIAL SAOOD SHINSH	JLATED	ZED	ME TYPE	ME MATERIAL MY	ME FINISH	RATING	KE SEAL N	SHOLD	ASITION STRIP 30	THERSTRIP SO OS	L STOP	R OPERATOR	-UNCTION	R LEVER	1BAR R PULL	CSET	PLATE	READER	RBELL	R CONTACT	AD		AGE	REROOM	CE/PRIVACY	SAGE	
FROM TO		MID	HEIG	000	呈	000	INSI	GLA	FRAI	FRAI	FRAI	FIRE	SMO	THR	TRA	WEA	WAL		PTL	000	PUS DOO	PANI	KICK IS	CARI	000		KEYF	REX	SIGN	STO	OFFI	AS	COMMENTS

	DIRECTION	OPE	NING					D	OOR AND	FRAM	IE CON	ISTRU	CTION	l								OPER	RATIO	N			F	ACCE	ESS C	ONTRO	DL		FUNCT	ION	
						DOOI	RS			FR	RAMES		FR	R		ACCES	SORII	ES																	
No. FROM	то	WIDTH	неіснт	DOOR TYPE	THICKNESS	DOOR MATERIAL	DOOR FINISH	INSULATED	GLAZEU	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	SMOKE SEAL	ASTRAGAL	TRANSITION STRIF	WEATHERSTRIP DOOR SWEEP	WALL STOP	FLOOR STOP	PTL FUNCTION	DOOR CLOSER	DOOR LEVER	PUSHBAR DOOR PULL	PANIC SET	KICKPLATE	PUSHPLATE	CARD READER DOORBELL	DOOR CONTACT	ELECTRIC STRIKE	KEYPAD	SIGNAGE	STOREROOM	ICE/PF	ASSAGE	COMMENTS
=D																	'					'		'			'					'			
29E APPARATUS BAY	EXTERIOR	4200	4200	FFD	50	MTL F	PREFIN	•	• 1	I/A	MTL	PNT	0				• •																		
29F APPARATUS BAY	EXTERIOR	4200	4200	FFD	50	MTL F	PREFIN	•	• 1	I/A	MTL	PNT	0				• •																		
HD						'																'													
36B GARBAGE ROOM	EXTERIOR	4000	0400	OHD	50	AL	AL	_		1/4	MTL	DNIT	Λ		•		• •																		



ISSUE OR REVISION ISSUED FOR 2022 UPDATE 2022-12-20 2023-07-24 DD CLIENT REVIEW ISSUED FOR RFPQ 2023-10-19 ISSUED FOR CLASS A 2024-02-16 2024-04-15 T24-253 - IFT



FILE NO. SP.22.V.0191



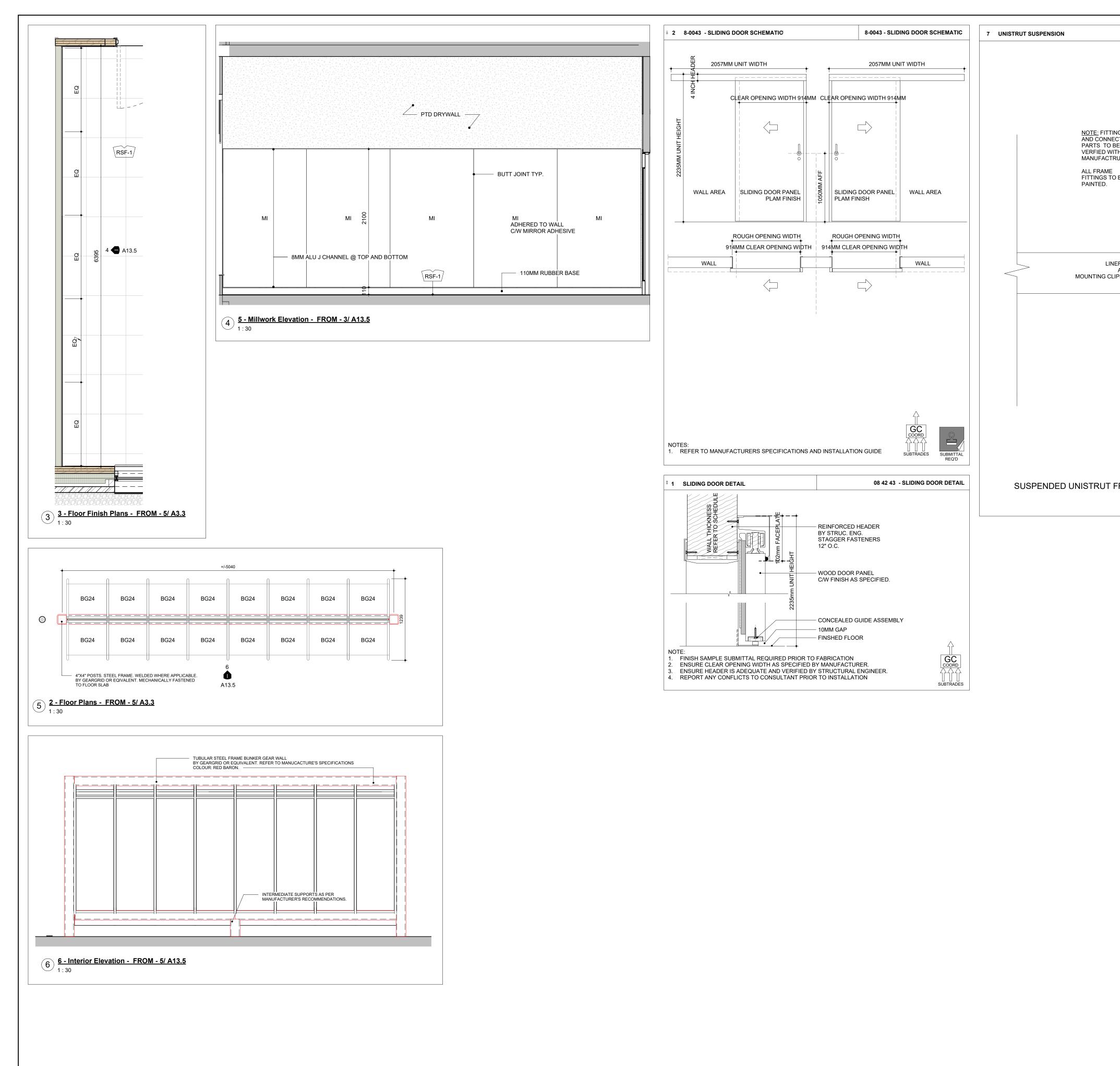
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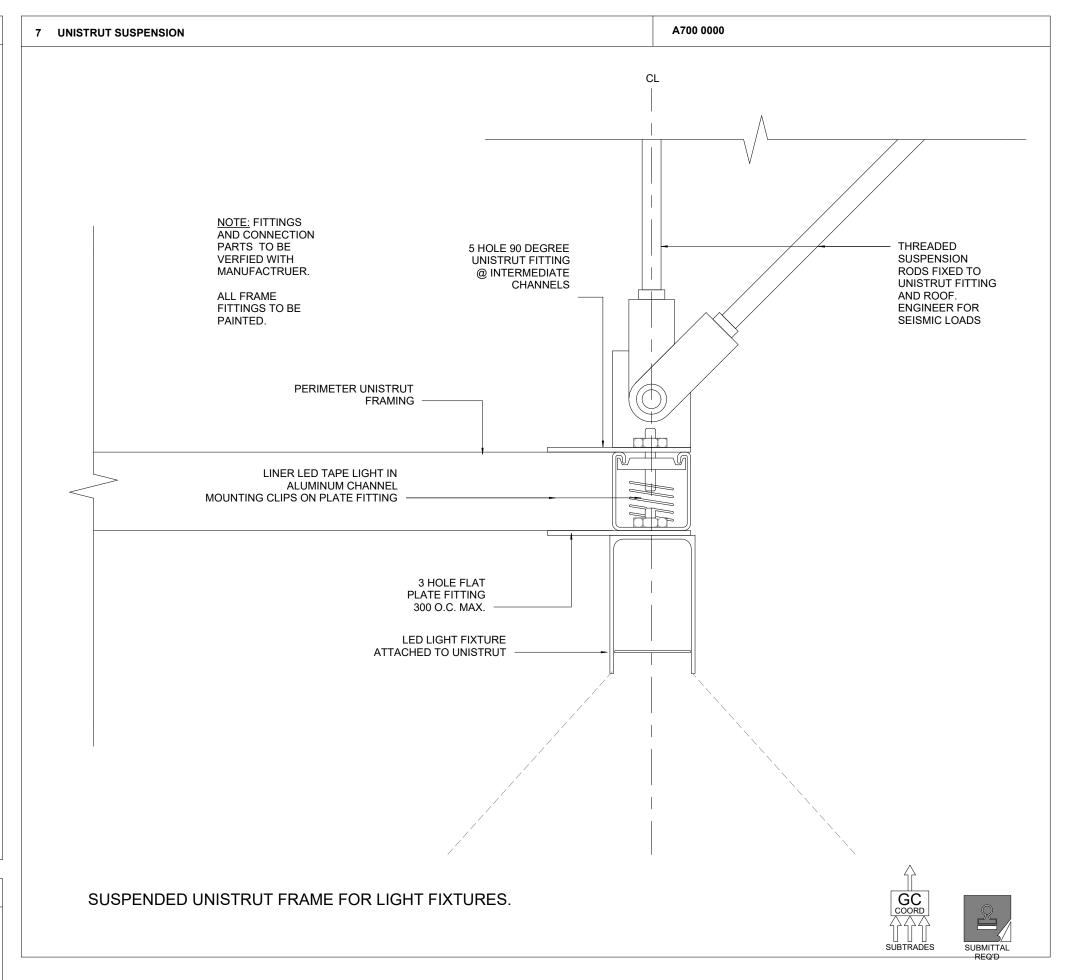
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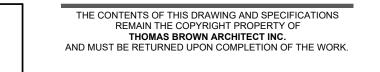
197 SPADINA AVENUE, SUITE 500 I TORONTO ONTARIO I M5T 2C8

MILLWORK SCHEDULE DOOR SCHEDULE

	DATE	2021	-11-24
Z AM	SCALE		Author
10:50:57	DWG STATUS:	TEN	DER
94-19	PROJECT No.	21	04







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T24-253 - IFT

2024-02-16 2024-04-15

LA ROCCA AVE

FILE NO. SP.22.V.0191

VAUGHAN

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THOMASBROWNARCHITECTS

Approval to Proceed

Project Phase

Authorization (signature)

MISCELLANEOUS **DETAILS**

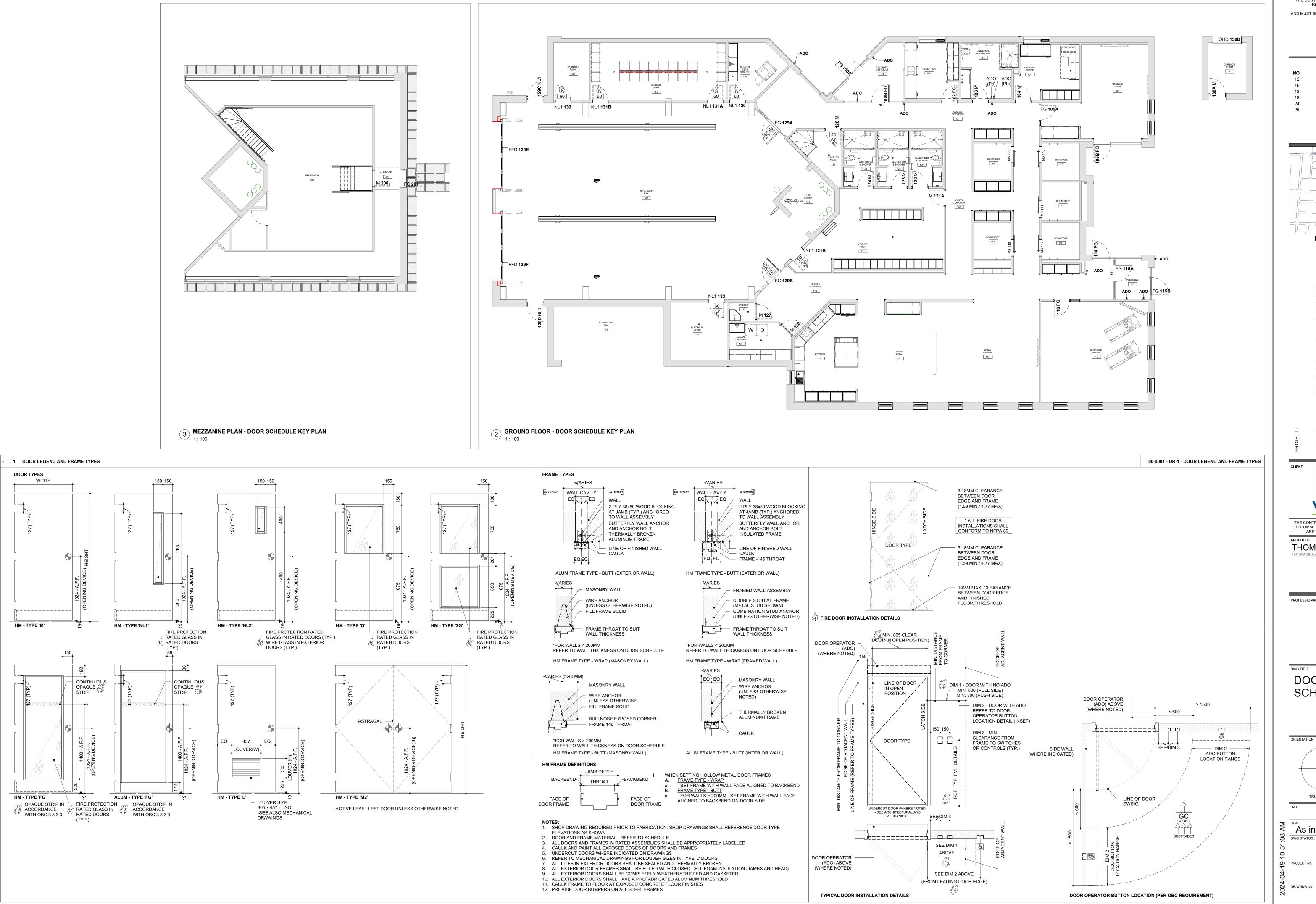
TRUE NORTH CONSTRUCTION NORTH

2021-11-24 As indicated Author DWG STATUS:

TENDER

PROJECT No.

A13.5



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ISSUE OR REVISION

2022 UPDATE DD CLIENT REVIEW 2023-07-24 ISSUED FOR PERMIT 2023-09-15 ISSUED FOR RFPQ ISSUED FOR CLASS A 2024-02-16

T24-253 - IFT

2024-04-15

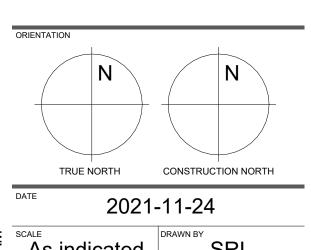
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VAUGHAN THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

THOMASBROWNARCHITECTS

PROFESSIONAL SEAL

DOOR FINISH SCHEDULE



As indicated

TENDER

SPECIALTY EQUIPMENT SCHEDULE					JLE - FOR ESTIMATOR		
ITEM# MODEL	QTY DESCRIPTION	ROOM NO.	ROOM NAME	MARK	LENGTH	R-VALUE	THERMAL RESISTANCE
	2 TREADMILL 2	116	EXERCISE ROOM	Exterior 3 PLY	229		5.0
As Specified	1 UniMac Commercial Laundry Equipment as Specified 1	130	BUNKER GEAR WASHING	3 PLY 3 PLY	1 230		5.0
FDC - SIAMESE	1 SEE MECHANICAL SPECS		EXTERIOR	5 PLY 5 PLY	162 5		8.3 8.3
SC-O	9 SCUPPER - REFER TO A4.1			5 PLY 5 PLY	1 167		8.3
TV TV	1 1	105 116	TRAINING ROOM EXERCISE ROOM	CW1	51 52	<pre><varies> ALUMINUM SCREEN</varies></pre>	
TV TV	1	117 122	CREW LOUNGE WASHROOM & SHOWER	CW1	1 4	ALUMINUM SCREEN ALUMINUM SCREEN	
TV	1 5	200	MECHANICAL MECHANICAL	CW1	1 109	ALUMINUM SCREEN	
VEX	2 NEDERMAN RAIL 2			LACBO LACBO	10 0		
W+D	1 WASHER AND DRYER UNIT WHIRLPOOL OR EQUIVALENT	120	CLEAN LAUNDRY	LACBO X1	11 103	R25	41.8
WDTA50SAHZ	1 1 Whirlpool® Stainless Steel Tub Pocket Handle Dishwasher	119	KITCHEN	X1 X1	28 1	R25 R25	41.8 41.8
WRS571CIH	1 Whirlpool® 36-inch Wide Counter Depth Side-by-Side Refrigerator	119	KITCHEN	X1 X1A	132 4	N/A	16.9
	1			X1A X1A	6	N/A N/A	16.9 16.9
PTWR PTWR	1 PAPER TOWEL DISPENSER B-3942 1 PAPER TOWEL DISPENSER B-3942	122 123	WASHROOM & SHOWER WASHROOM & SHOWER	X1A X2	11 28	R25	45.1
PTWR	1 PAPER TOWEL DISPENSER B-3942 3	124	WASHROOM & SHOWER	X2 X2	15 0	R25 R25	45.1 45.1
TTDJ	B-2892 SURFACE MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER	122	WASHROOM & SHOWER	X2 X2	1	R25	45.1
TTDJ	B-2892 SURFACE MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER	123	WASHROOM & SHOWER	X3 X3	24	R25 R25	35.7 35.7
TTDJ	B-2892 SURFACE MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER	124	WASHROOM & SHOWER	X3	24	R25	44.7
WB-2	3 2 WHITEBOARD	105	TRAINING ROOM	X4 X4	6	R25 R25	44.7
WB-2	2 WHITEBOARD 4	114	ACCESS CORRIDOR	X4 X05	77 13	R25	26.7
DIVISION 8 ACCESSORY MI	1 FLAT MIRROR	103	UNIVERSAL WASHROOM	X05 X05	1 14	R25	26.7
MI MI	5 FLAT MIRROR 1 FLAT MIRROR	116 122	EXERCISE ROOM WASHROOM & SHOWER	X20-P1	123		66.8
MI MI	1 FLAT MIRROR 1 FLAT MIRROR	123 124	WASHROOM & SHOWER WASHROOM & SHOWER	X20-P1 X20-P1	1 123		66.8
DIVISION 10 ACCESSORY	9			X20-P2 X20-P2	1 17		48.2
BG24	24 TURNOUT GEAR LOCKERS - 24" WIDTH 24	131	BUNKER GEAR	X20-P3 X20-P3 X20-P3	17 1 17		51.5 51.5
CG-T2	1 CORNER GUARD (WRAP AROUND) 1	117	CREW LOUNGE	X20-P4	11		16.9
DIVISION 10 ITEMS	1 CORNER GUARD	102	RECEPTION	X20-P4	11		
CG-T1 CG-T1	2 CORNER GUARD 4 CORNER GUARD	104 105	CAPTAINS OFFICE TRAINING ROOM	Foundation W F1i	1		34.9
CG-T1 CG-T1	5 CORNER GUARD 5 CORNER GUARD	106 109	ACCESS CORRIDOR DORMITORY	W F1i W F2i	1 114		34.5
CG-T1 CG-T1	3 CORNER GUARD 1 CORNER GUARD	114	ACCESS CORRIDOR CREW LOUNGE	W F2i	1 115		34.5
CG-T1	2 CORNER GUARD	118	DINING AREA	W F4	16 1		1.4 1.4
CG-T1 CG-T1	2 CORNER GUARD 5 CORNER GUARD	119 121	KITCHEN LOCKER ROOM	W F4 W F4i	16		33.8
L	5 LOCKERS AS SPECIFIED (REFER TO DRAWINGS FOR LAYOUT)	104	CAPTAINS OFFICE	W F4i W F5	1 11		2.8
L	23 LOCKERS AS SPECIFIED (REFER TO DRAWINGS FOR LAYOUT) 28	121	LOCKER ROOM	W F5	11 12		34.1
RSS RSS	1 B-5191 FOLDABLE SHOWER SEAT 1 B-5191 FOLDABLE SHOWER SEAT	103 122	UNIVERSAL WASHROOM WASHROOM & SHOWER	W-F3 W-F7	12 126		33.5
RSS RSS	1 B-5191 FOLDABLE SHOWER SEAT 1 B-5191 FOLDABLE SHOWER SEAT	123 124	WASHROOM & SHOWER WASHROOM & SHOWER	W-F7	1 127		33.5
DIVISION 10 ITEMS (WASHROOM ACCESSORIES)	4			W-F8 W-F8	13 1		2.1 2.1
SN SN	1 B-270 SANITARY NAPKIN DISPOSAL 1 B-270 SANITARY NAPKIN DISPOSAL	103 122	UNIVERSAL WASHROOM WASHROOM & SHOWER	W-F8 WF-6	13 23		34.9
SN SN	1 B-270 SANITARY NAPKIN DISPOSAL 1 B-270 SANITARY NAPKIN DISPOSAL	123 124	WASHROOM & SHOWER WASHROOM & SHOWER	WF-6	23		
DIVISION 12 ITEMS	4			Interior AC1	23		
WS WS	1 WINDOW SHADE 2 WINDOW SHADE	102 105	RECEPTION TRAINING ROOM	AC1	15 0		
WS WS	6 WINDOW SHADE 3 WINDOW SHADE	116 117	EXERCISE ROOM CREW LOUNGE	AC1	39		
WS WS	2 WINDOW SHADE 1 WINDOW SHADE	118 119	DINING AREA KITCHEN	CC1	1 42		
WSBO	15 1 WINDOW SHADE c/w BLACKOUT SHADE	104	CAPTAINS OFFICE	HB HB	1 43		
ELECTRICAL ITEMS	1	104	ON THING OF THE	IS3 IS3	5		
CR	2 CORD REEL 2	129	APPARATUS BAY	IS3	5		0.4
Item # 02292583000		440	VITOLIEN	P1	4		0.4 0.4 0.4
ST-E(I)	1 30" ELECTRIC STOVE - REFER TO SPECS 1	119	KITCHEN	P1	0		0.4 0.4 0.4
LSX240-60M LSX250	221 Solar Panel	100	ADDADATUS DAV	P1 P1a	65 115		0.2
LSX250 LSX250	50 Solar Panel 1 Solar Panel	129 137	APPARATUS BAY SECURITY & I.T	P1a P1a P1a	4 2		0.2 0.2 0.2
LSX250	14 Solar Panel 286	200	MECHANICAL	P1a P1a P1a	1 122		0.2
LSX250 Landscape LSX250	46 Solar Panel			P1b	122 16 16		0.2
LSX250	2 Solar Panel 48	129	APPARATUS BAY	P1b P2 P2	16 16		0.4 0.4
PLUMBING ITEMS EW	1 EYE WASH (FOOT OPERATED)	129	APPARATUS BAY	P2	1 17 7		
HR	1 HOSE REEL - WALL MOUNTED	129	APPARATUS BAY	P3 P3	1		0.7 0.7
WASHROOM ACCESSORY	1			P3	8 17		0.4
B-295x18	1 SURFACE MOUNTED STAINLESS STEEL SHELF 1	103	UNIVERSAL WASHROOM	P5 P5	1 17		0.4
CH CH	2 COAT HOOK 16 COAT HOOK	103 109	UNIVERSAL WASHROOM DORMITORY	P5a P5a	11 11		0.2
CH	4 COAT HOOK	112	DORMITORY	P5c P5c	1 1		0.2
CH CH	2 COAT HOOK 2 COAT HOOK	122 123	WASHROOM & SHOWER WASHROOM & SHOWER	P5d P5d	1 1		0.2
CH	2 COAT HOOK 28	124	WASHROOM & SHOWER	P6 P6	10		0.2 0.2
GBR(L)	2 B-5806.99x40 2	103	UNIVERSAL WASHROOM	P6	11 13		0.4
GBR(M)	2 B-5806.99x30 2	103	UNIVERSAL WASHROOM	P8 P8	1 14		0.4
GBR+GBR-L SET	1 GRAB BAR SET (1 STRAIGHT + 1 L-SHAPED) 1	103	UNIVERSAL WASHROOM	P18 P18	2 2		6.7
GBR-L	1 GRAB BAR - L-SHAPED 1	103	UNIVERSAL WASHROOM	P21 P21	9 2		1.0 1.0
RSPH	1 RECESSED SHOWER NICHE BY ZITTA OR EQV. SATIN STAINLESS STEEL 12X16	124	WASHROOM & SHOWER	P21 P24	10 13		1.6
SC+R	1 SHOWER CURTAIN	103	UNIVERSAL WASHROOM	P24 P24 WT-1	13 13		1.0
SC+R SC+R	1 SHOWER CURTAIN 1 SHOWER CURTAIN	122 123	WASHROOM & SHOWER WASHROOM & SHOWER	WT-1	0		
SC+R	1 SHOWER CURTAIN 4	124	WASHROOM & SHOWER	WT-1 WT-3	0		
SD SD	1 B-4112 SOAP DISPENSER 1 B-4112 SOAP DISPENSER	103 122	UNIVERSAL WASHROOM WASHROOM & SHOWER	WT-3	0 16		
SD	1 B-4112 SOAP DISPENSER	124	WASHROOM & SHOWER	WT-5	1 17		

ITEM #	ID	QTY	DESCRIPTION	ROOM NO.	ROOM NAME	CA
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REMAINDER OF FURNITURE?

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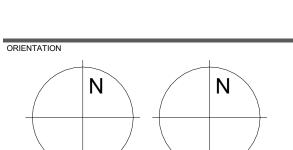
Approval to Proceed

Project Phase

Authorization (signature)

SCHEDULE

CASH ALLOWANCE AND EQUIPMENT

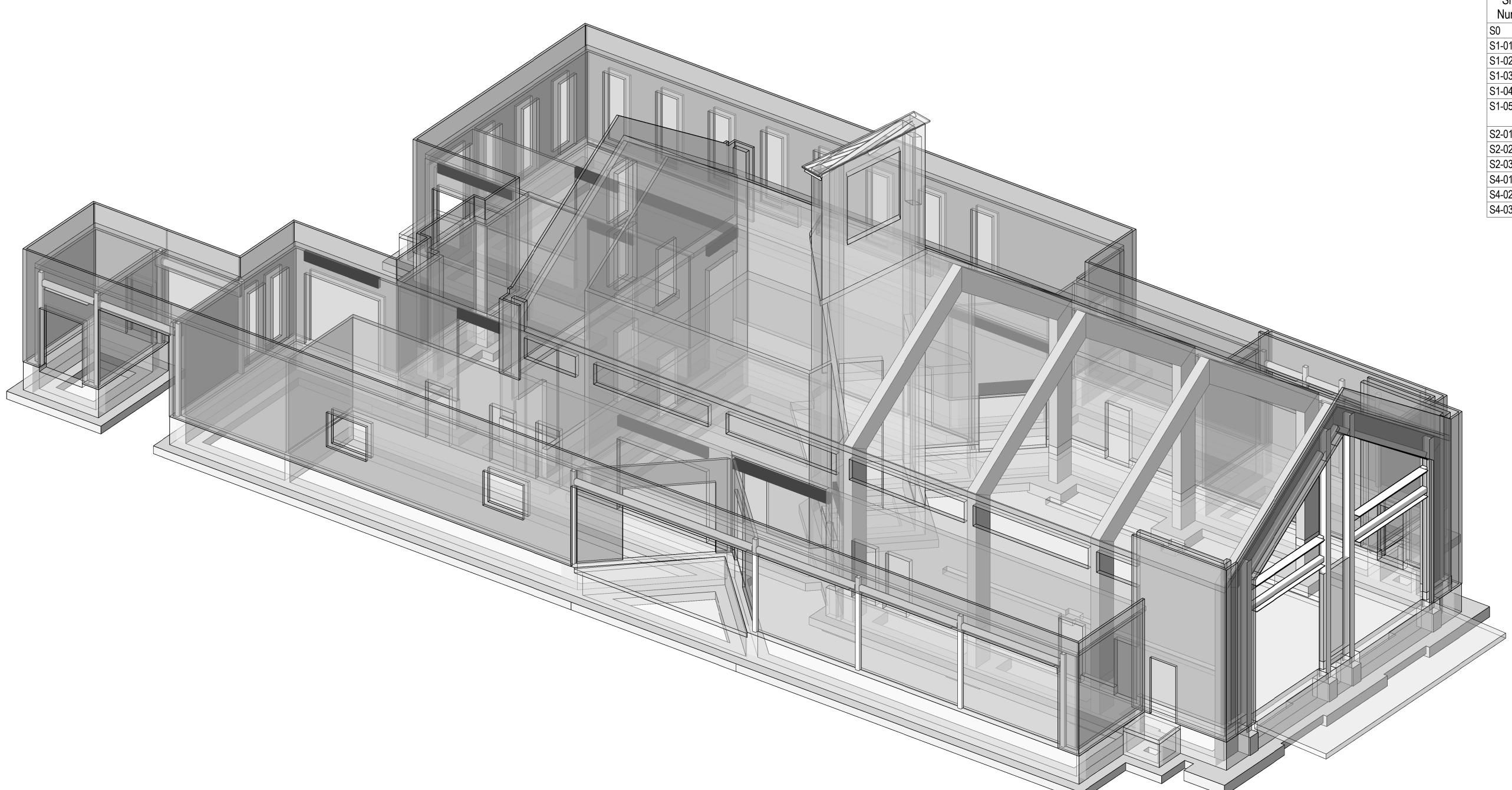


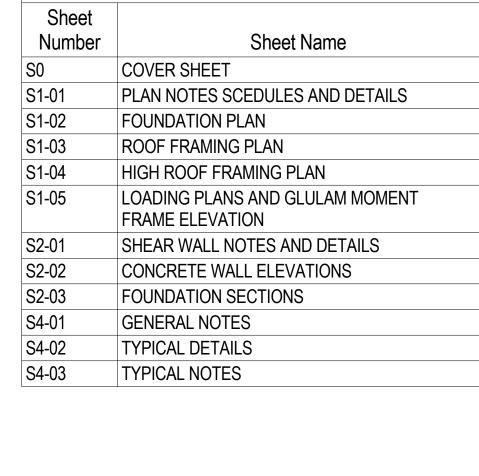
2021-11-24 Author

DWG STATUS :

TENDER PROJECT No.

A13.7





DRAWING LIST



CITY OF VAUGHAN FIRE STATION 7-12

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



2235 Sheppard Ave. E. Suite No. 1100 Toronto, ON M2J 5B5

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CONCRETE MIX SCHEDULE

EXPOSURE	ELEMENT	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MP ¹)	EXPOSURE CLASSIFICATION	NOTES
GENERAL NON-	FOOTINGS	25	N	
EXPOSED CONCRETE	COLUMNS	25	N	
(i.e., NOT EXPOSED TO		25	N	
CHLORIDES NOR	SLAB ON GRADE ²	25	N	
FREEZE AND THAW)	LEAN MIX	5	N	
	FLOATING SLABS	25	N	
	HOUSEKEEPING PADS	25	N	
	UNSHRINKABLE FILL	0.4 MAX.	N	
EXTERIOR EXPOSED	FOUNDATION/RETAINING WALLS	25	F-2	
CONCRETE	COLUMNS, PIERS	25	F-2	
EXCLUDING PARKING	SHEAR WALLS	25	F-2	
(i.e., EXPOSED TO	OTHER WALLS (NOT IDENTIFIED AS SHEAR WALLS)	25	F-2	
FREEZE AND THAW	SUSPENDED SLABS AND BEAMS	32	F-2	
BUT NOT CHLORIDES)	SLAB ON GRADE ² , SIDEWALKS	32	C-2	
	FROST SLABS	35	C-1	
	SLAB ON GRADE - APPARATUS BAYS	SUPERPLASTICIZED 32	N	NO AIR ENTRAINMENT
	APRON SLAB	35	C-1	
ODOUT	MACCAUDY FILL /DOND DE AMO	AF (FINE OPOUT)		CONFORM TO
GROUT	MASONRY FILL/BOND BEAMS	15 (FINE GROUT)		REQUIREMENTS OF CSA A179

DESIGN CRITERIA NOTES

- 1.1. 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.
- 1.2. 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.
- 1.3. BUILDING IMPORTANCE CATEGORY (SNOW, WIND, AND EARTHQUAKE) IS POST DISASTER.
- 1.4. STIFF ELEMENTS NOT PART OF SFRS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.3 (6a). EXAMPLES INCLUDE, BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A
- PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE. PROVIDE MINIMUM 25mm SEPARATION UNLESS NOTED
- 1.5. MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL:
- 1.5.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION; STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
- 1.5.2. DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.
- 1.5.3. DESIGN ALL HANDRAILS TO MEET LOADS DESCRIBED IN OBC 3.4.6.5(12).
- 1.5.4. DESIGN ALL STAIRS TO SUPPORT A MINIMUM LIVE LOAD OF 4.8kPa.
- 1.6. ARCHITECTURAL PRECAST FABRICATOR SHALL: 1.6.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A
- PROFESSIONAL ENGINEER.
- 1.6.2. WHERE PRECAST IS USED AS A GUARD DESIGN THE PRECAST AND CONNECTIONS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.

Fa = 1.07

2. LATERAL LOADS ON STRUCTURE

- 2.1. WIND q(1/50) = 0.44kPa $\hat{C}e = (h/10)^1/5 \text{ NOT LESS THAN } 0.9.$
- Cp = AS PER FIGURE 4.1.7.6-A OF NBC 2015
- 2.2. EARTHQUAKE Sa(0.2) = 0.167PGA = 0.105
- Sa(0.5) = 0.096SITE CLASS = D Fv = 1.37Sa(1.0) = 0.053
- Sa(2.0) = 0.0260Ro = 1.3 leFaSa(0.2) = 0.268 MODERATELY DUCTILE MOMENT RESISTING FRAMES (GLULAM BASED)
- CLT BASED SHEAR WALLS METHOD OF ANALYSIS :- DYNAMIC

- 3.1. WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND HORIZONTAL EARTH PRESSURE
- (P=K (Wt.h+q) K = 0.50
- $Wt = 22kN/m^3$ q = 12kPa
- 3.2. THE WALLS HAVE BEEN DESIGNED ASSUMING FREE DRAINING BACKFILL OR THE USE OF A DRAINAGE CORE TO PREVENT THE BUILD-UP OF HYDROSTATIC PRESSURE.

		WC	OOD COLUMN SCH	HEDULE	
MARK	SIZE (WxD)	MATERIAL	GRADE	REMARKS	FACTORED LOAD (kN)
OMITTED (CT)	SUPPLIER BASED ON PERFORMANCE				
(C2)	SPECIFICATION AND LOADING DEFINED HEREIN	SPF	20f-Ex		200

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

2) REINFORCED WITH SYNTHETIC FIBERS ADDED AT BATCHING PLANT - SEE SPECIFICATIONS

STEEL COLUMN AND POST LEGEND:

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

WALL AN	D DECK (FLOOR /	ROOF) PANEL SCHEDULE
MARK	SIZE (THICKNESS)	MATERIAL
CLT1	105	CLT STRESS GRADE 'V2' WITH SPF No.2 MIN. FACE LAYERS
CLT2	175	CLT STRESS GRADE 'V2' WITH SPF No.2 MIN. FACE LAYERS
CLT3	315	CLT STRESS GRADE 'V2' WITH SPF No.2 MIN. FACE LAYERS

ROOF LINTEL SCHEDULE												
	REFER TO LINTEL NOTES A07 SEE ALSO S	ON TYPICAL SPECIFICATIO										
MARK	ARK MATERIAL TYPE REMARKS											
RL1	HSS 203x152x6.4 + 8mm BOTTOM PLATE		PLATE LENGTH TO SUIT	THS								
RL2	HSS 203x203x8.0 + 8mm BOTTOM PLATE		PLATE LENGTH TO SUIT	LENGTHS								
RL2	HSS 203x203x8.0 + 8mm TOP PLATE		PLATE LENGTH TO SUIT									
Tf = 10kN.M TORSION CONNECTION ALL EXTERIOR LINTELS SUPPORTING FACE BRICK TO BE GALVANIZED												
** WELDED TO HSS EACH END.												

LOADING ROOF USE	SUPERIMPOSED DEAD LOAD (kPa)	SNOW LOAD (kPa)
GENERAL ROOF	** 2.31	1.47 +ASL
MECHANICAL ROOF	** 2.81	1.47 +ASL
FOR ADDITIONAL LOAD	RM LOADING SHOWN, RI DING FOR ACCUMULATED POINT LOADS OF BRACIN	O SNOW LOADS (ASL)
FOR ANY CONCENTRA	RM LOADING SHOWN, DI	FROM MECHANICAL

ROOF LOADING SCHEDULE

PIPING OR AS A MINIMUM, DESIGN FOR POINT LOAD OF 2kN AT ANY LOCATION.

** PV PANEL LOADS CONSIDERED FOR BALLASTED LOW ANGLE PANELS THAT WILL NOT RESULT IN ANY ADDITIONAL SNOW LOADS. PV PANEL LOADING CONSIDERED TO BE 1.20 kPa

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

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

FOUNDATION PLAN NOTES

8. SDF = STEP DOWN FOOTING.

- 1. TOP OF SLAB ON GRADE TO BE 0.0 BELOW FINISHED FLOOR DATUM ELEVATION 225.70m EXCEPT AS NOTED. TOS = TOP OF SLAB.
- 2. FOOTINGS SHALL BEAR ON NATIVE SILTY SAND/SANDY SILT CAPABLE OF SUSTAINING A MINIMUM OF
- 375 kPa (ULS), 250 kPa (SLS).
- REFER TO THE SOIL REPORT No. 20210932 DATED MARCH 30, 2022 PREPARED BY eNGLOBE. 4. 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.
- 6. 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.
- 9. UNLESS OTHERWISE SHOWN, ALL WALL FOOTINGS TO BE 300mm DEEP WITH 400mm PROJECTIONS EACH SIDE. 10. FILL REQUIRED ON BOTH SIDES OF FOUNDATION WALLS SHALL BE PLACED AND COMPACTED
- SIMULTANEOUSLY ON EACH SIDE TO EQUALIZE SOIL PRESSURE. 11. PROVIDE SLAB DEPRESSIONS AND SLOPES, OTHER THAN THOSE SHOWN ON THE STRUCTURAL
- DRAWINGS, AS REQUIRED BY THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
- 12. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE INCLUDING STRIP FOOTINGS.
- 13. GENERAL SLAB ON GRADE IS 100mm THICK REINFORCED WITH SYNTHETIC FIBRES (REFER TO CONCRETE SPECIFICATION). EXCEPT AS NOTED.
- 14. CONCRETE STRENGTHS SEE CONCRETE SCHEDULE.
- 15. SEE TYPICAL NOTES, TYPICAL DETAILS, AND ALL OTHER DRAWINGS.

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

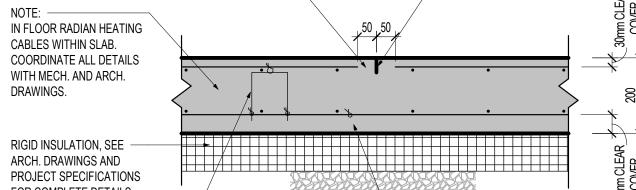
1. THE AREA WITHIN THE BUILDING SHALL BE STRIPPED OF THE UPPER LAYER SOIL, FILL, ORGANICALLY

- CONTAMINATED MATERIAL AND RUBBLE AND TO A MINIMUM OF 1000mm (40") BELOW THE UNDERSIDE OF THE SLAB ON GRADE.
- 2. THE EXPOSED SUB-GRADE SHALL BE EXAMINED AND APPROVED BY THE SOIL CONSULTANT. 3. THE ENTIRE AREA SHALL BE PROOF ROLLED WITH A HEAVY COMPACTOR TO A MINIMUM OF 98% STANDARD PROCTOR MAX. DRY DENSITY AND TO THE APPROVAL OF THE SOIL CONSULTANT.
- 4. ANY LOOSE OR SOFT SPOTS ENCOUNTERED SHALL BE SUB-EXCAVATED AND BACKFILLED WITH COMPACTED APPROVED MATERIAL. 5. FILL REQUIRED TO RAISE THE GRADES SHALL BE COMPRISED OF APPROVED **GRANULAR 'B' TYPE 1 CONFORMING TO OPSS 1010** PLACED
- IN SUCCESSIVE LOOSE 150mm (6") LAYERS EACH COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 6. THE LAYER IMMEDIATELY BELOW THE SLAB-ON-GRADE SHALL BE 200mm (8") OF 19mm CLEAR CRUSHED STONE COMPACTED TO MIN. 98% STANDARD PROCTOR MAX. DRY DENSITY.
- 7. ALL PROCEDURES, EQUIPMENT AND MATERIALS SHALL BE APPROVED BY THE SOIL CONSULTANT WHO SHALL CONDUCT SUFFICIENT TESTS TO ENSURE THAT THE SPECIFIED MATERIALS AND DENSITIES ARE ACHIEVED.
- 8. THE CONTRACTOR SHALL CO-ORDINATE WITH THE SOIL CONSULTANT AND ARRANGE A SUITABLE PROGRAM FOR SAMPLING AND

10. REFER TO THE SPECIFICATION AND THE SOIL REPORT FOR PREPARATION OF AREAS OUTSIDE THE BUILDING ENVELOPE.

INSPECTIONS, ETC. AND NOTIFY THE ARCHITECT ACCORDINGLY. 9. EXISTING ON-SITE MATERIAL **SHALL NOT** BE USED WITHIN THE BUILDING AREA FOR BACKFILLING IN TRENCHES AGAINST FOUNDATION WALLS OR UNDER SLABS-ON-GRADE.





FOR COMPLETE DETAILS AND EXTENTS. CONTINUOUS HIGH CHAIRS SIZED TO SUIT. WIRED SECURELY TO TOP

AND BOTTOM BARS.

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

- CONCRETE BLOCK

CHAIRS WITH WIRE

TIES (TYPE CBW)



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PROFESSIONAL SEAL

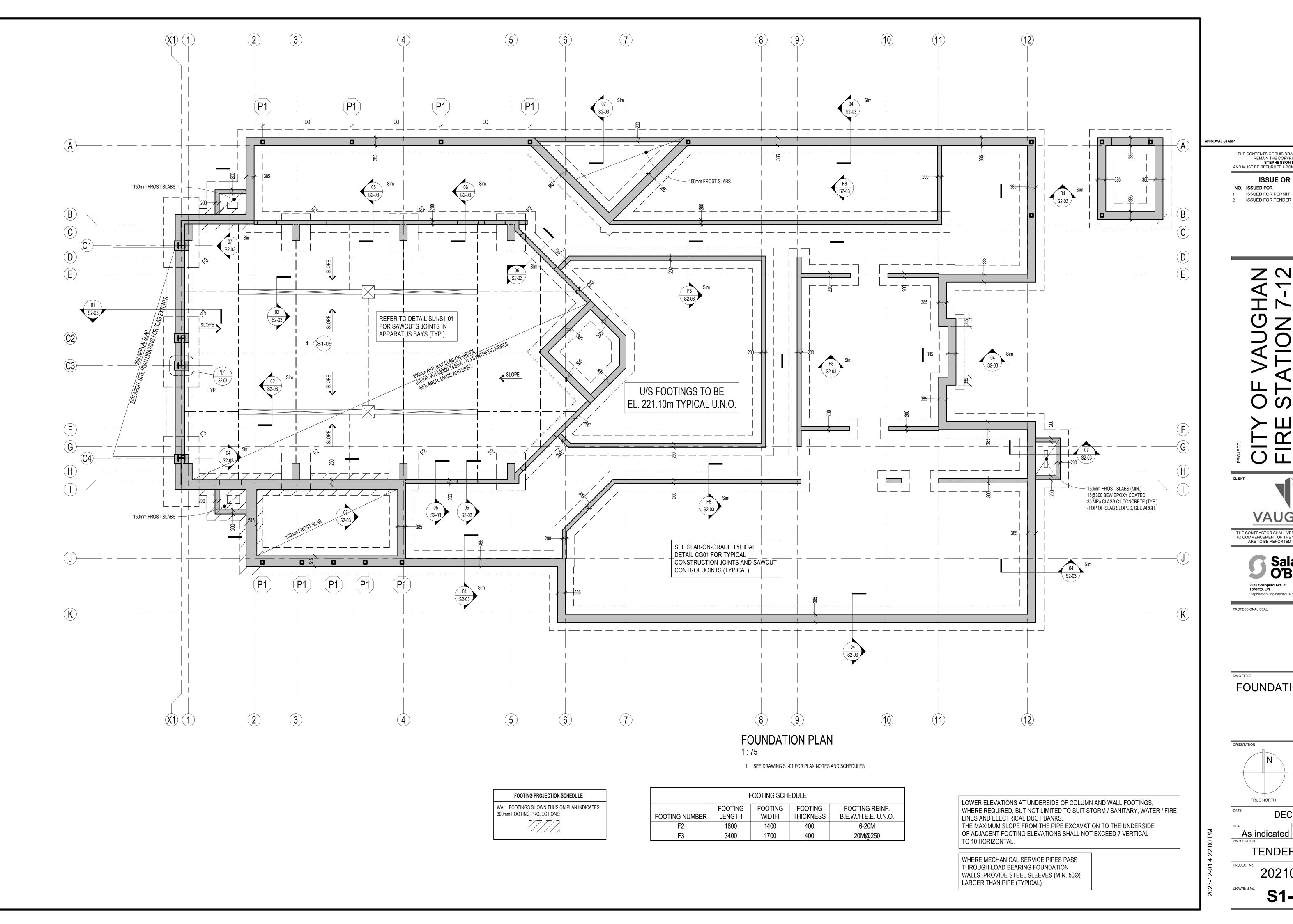
PLAN NOTES SCEDULES AND **DETAILS**

DEC. 2023

As indicated **TENDER ISSUE**

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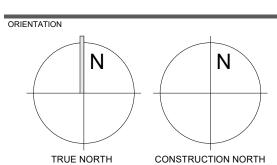
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PROFESSIONAL SEAL

FOUNDATION PLAN



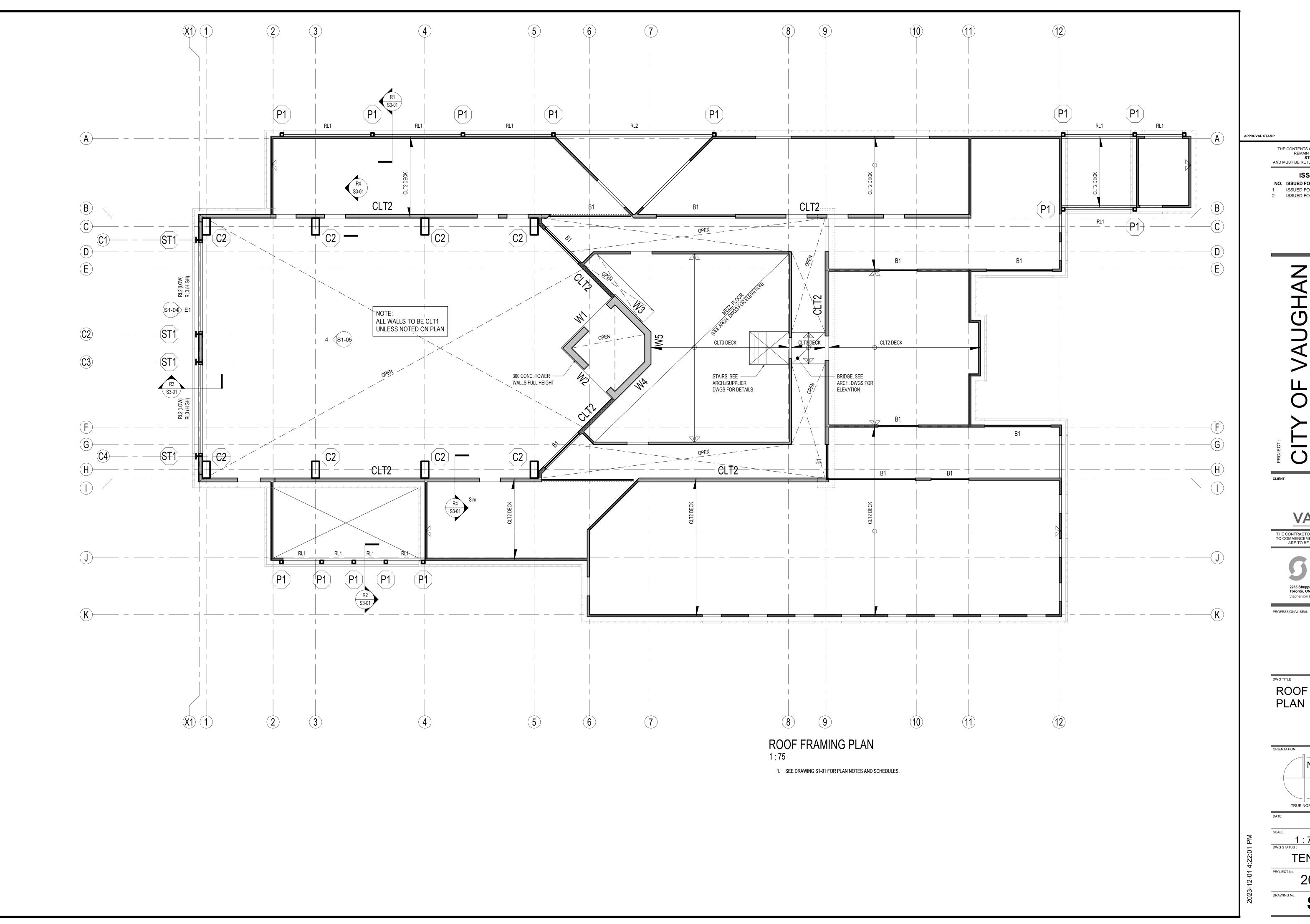
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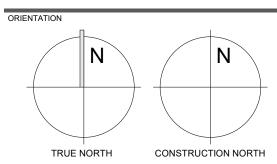
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ROOF FRAMING

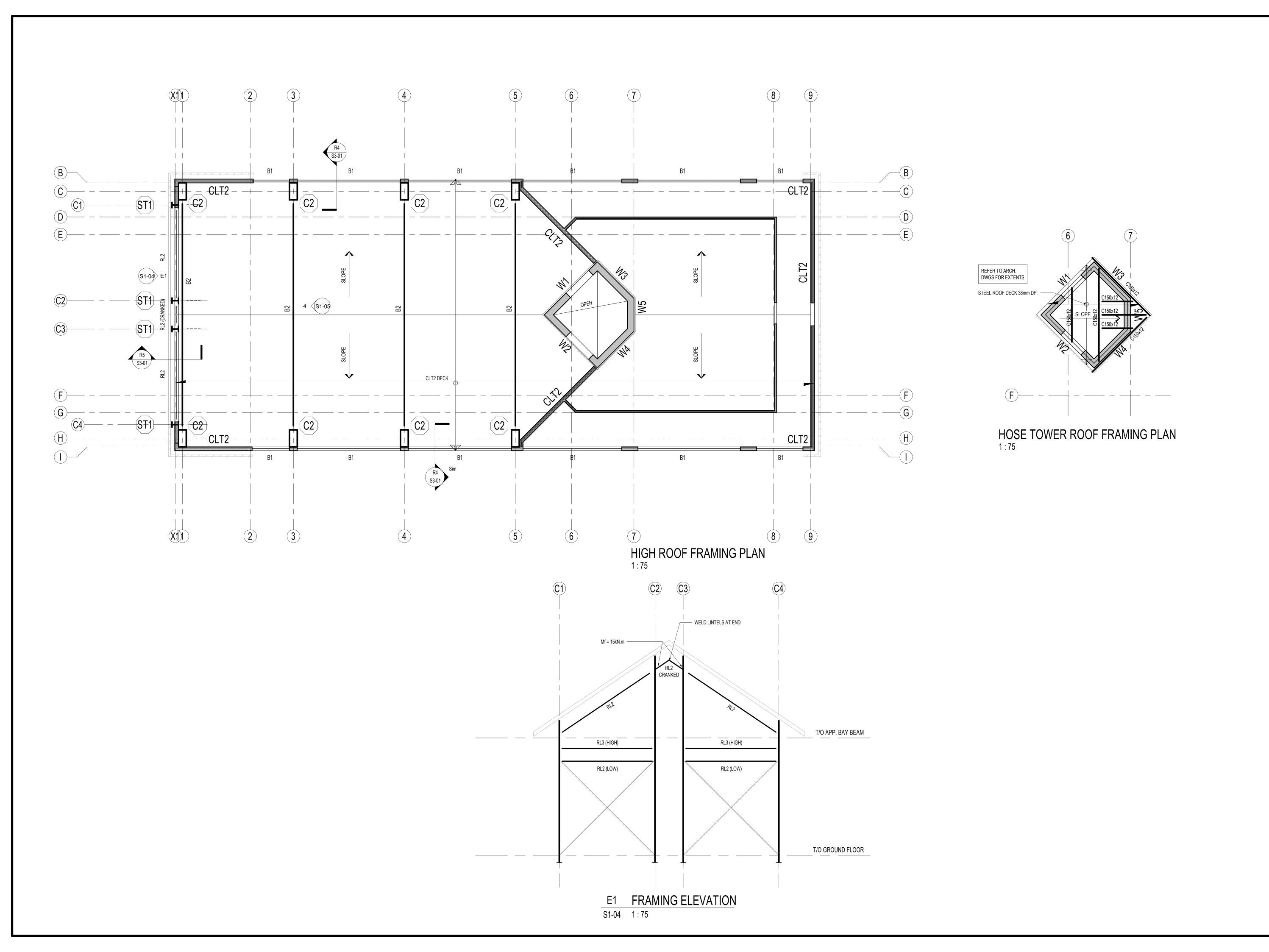


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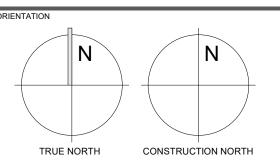
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PROFESSIONAL SEAL

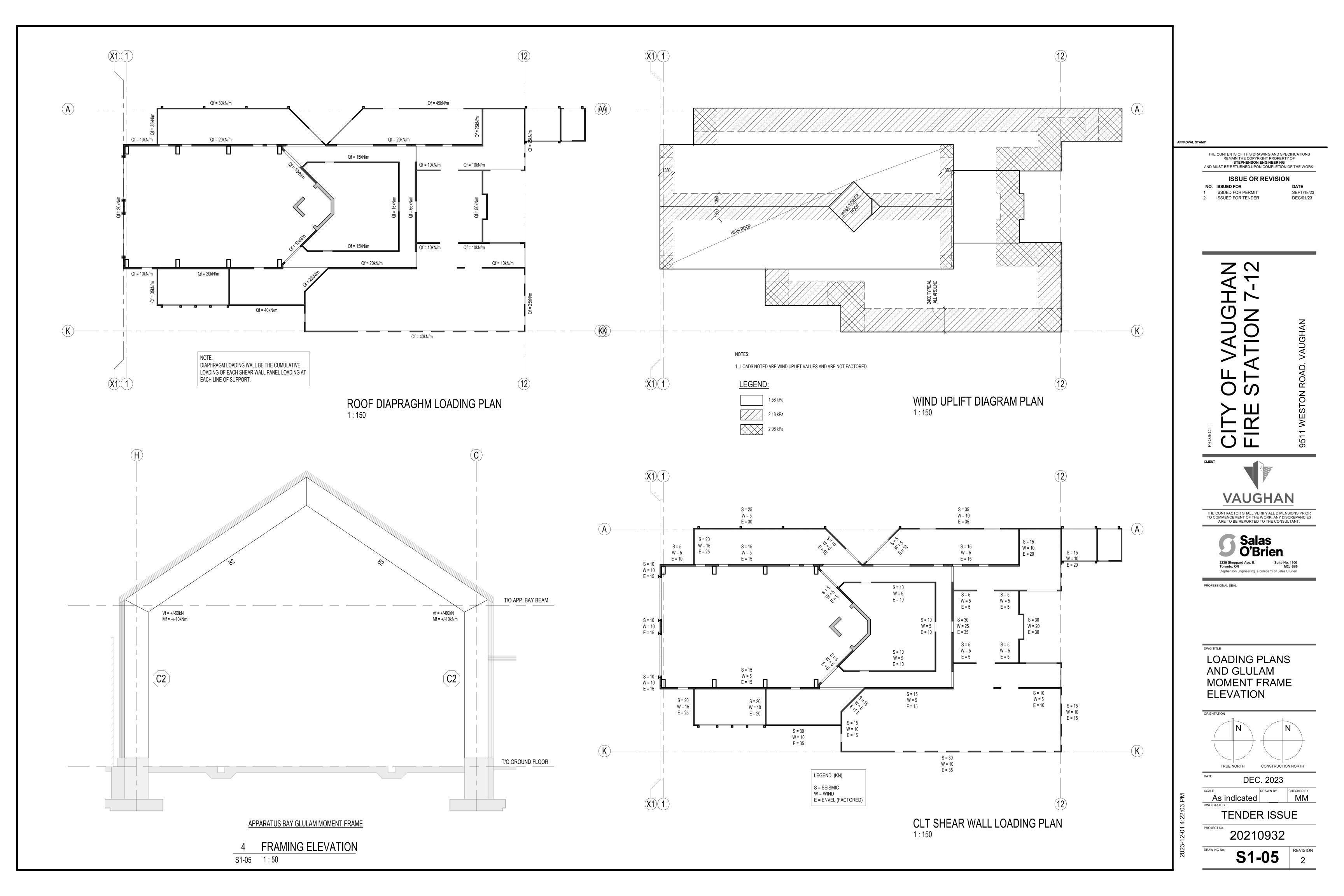
HIGH ROOF FRAMING PLAN

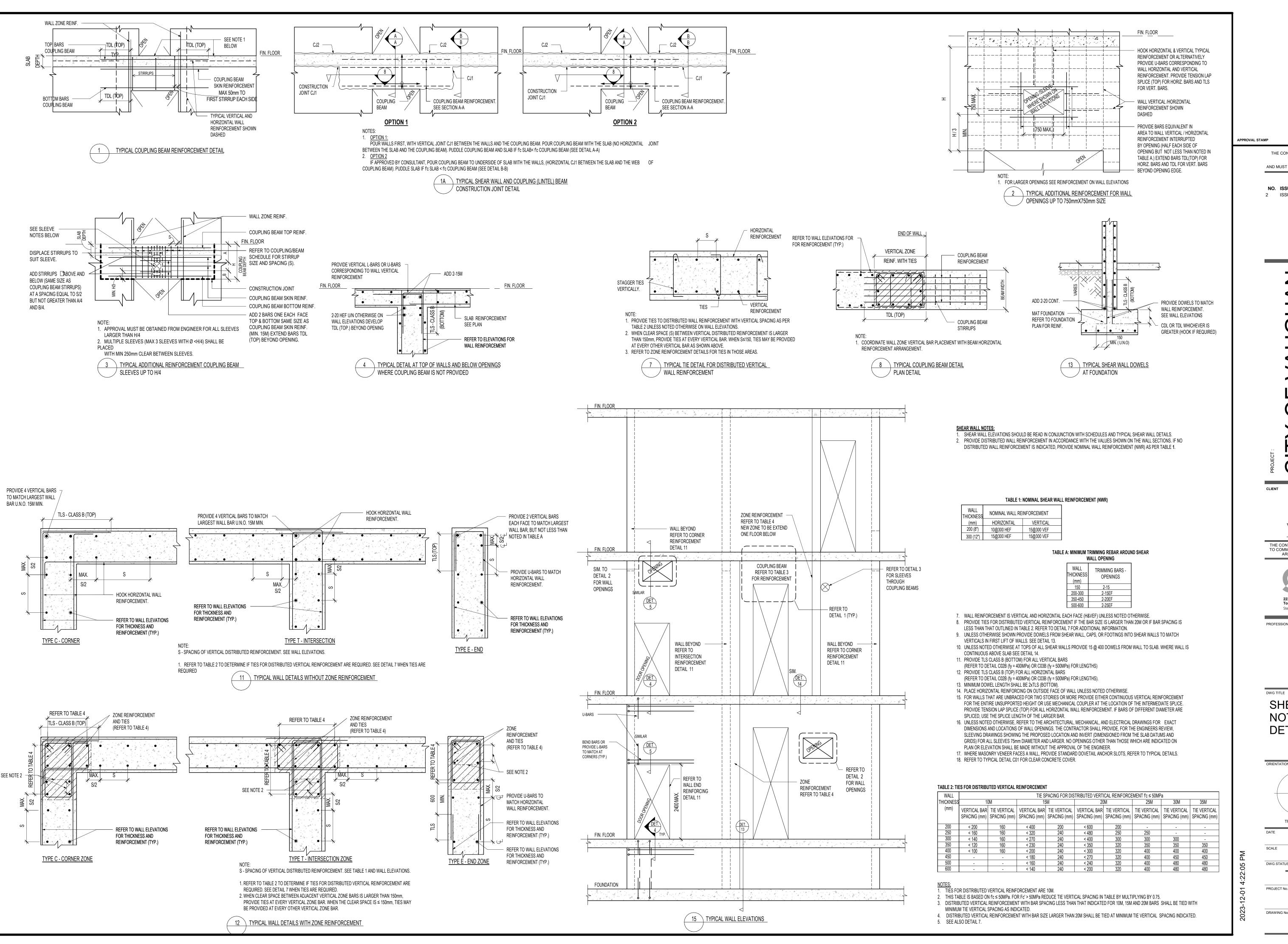


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S1-04 REVISION 2





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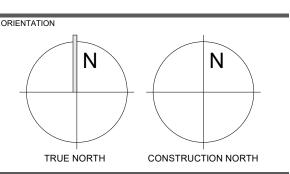
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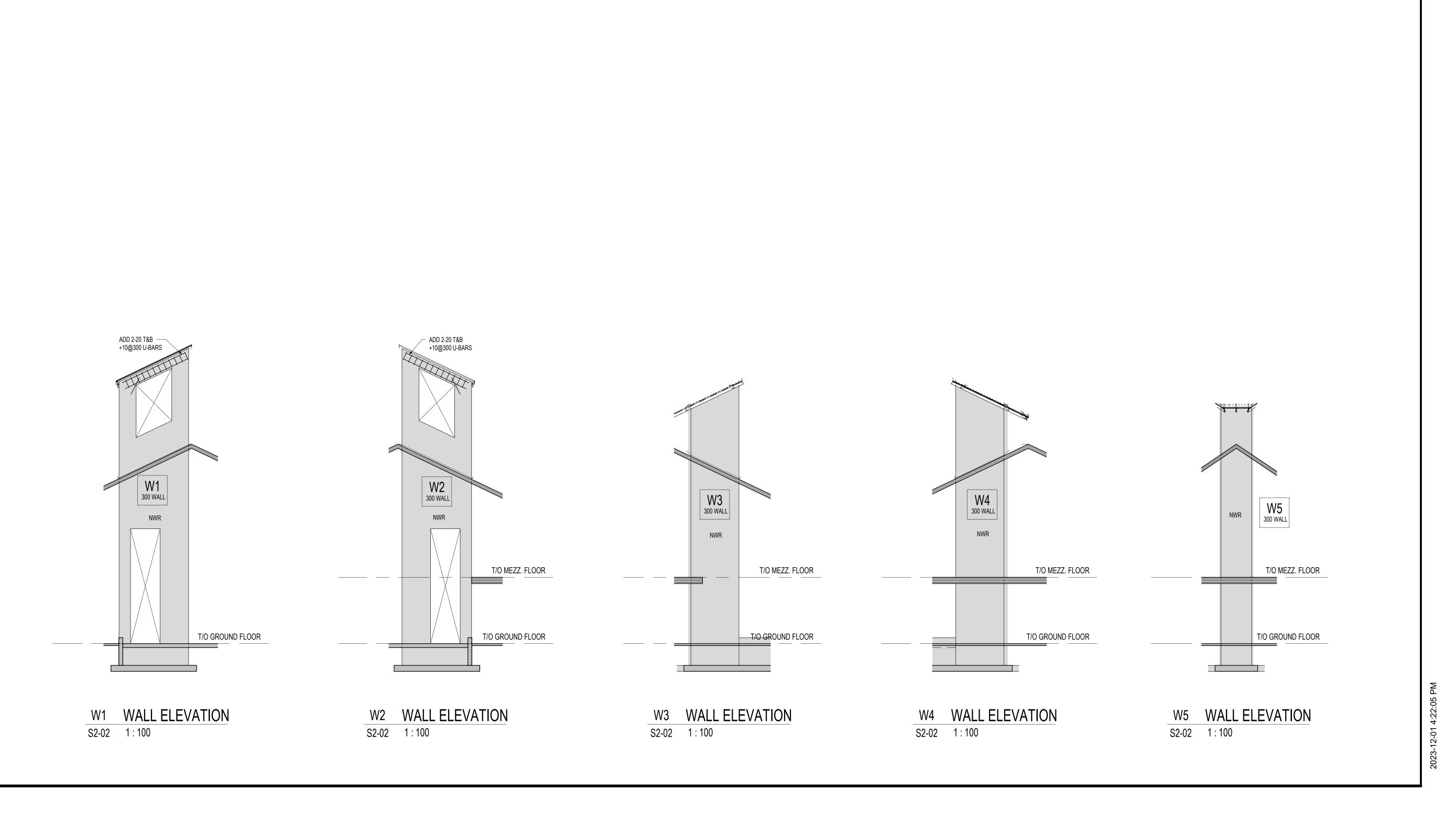
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SHEAR WALL **NOTES AND DETAILS**



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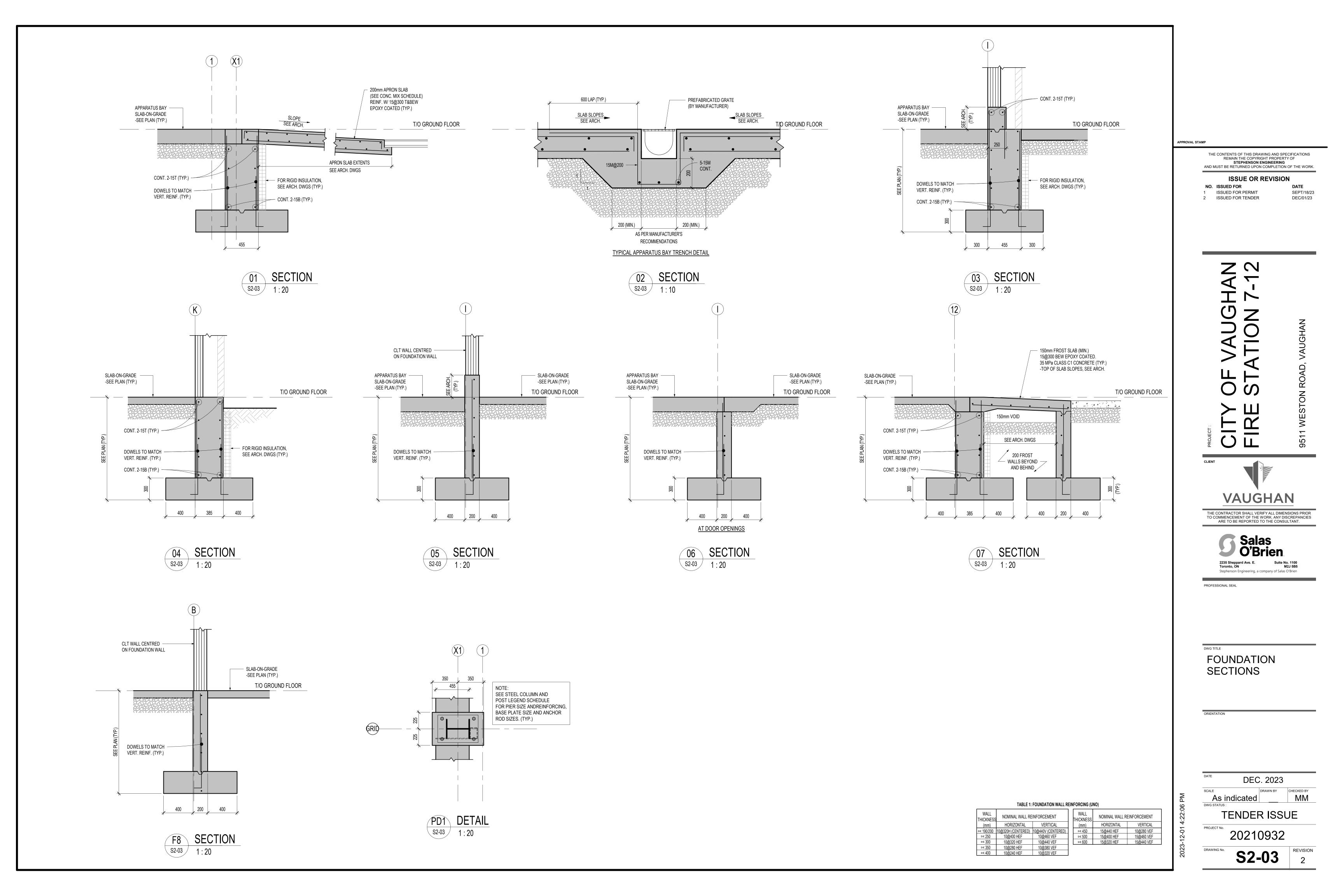
CONCRETE WALL **ELEVATIONS**

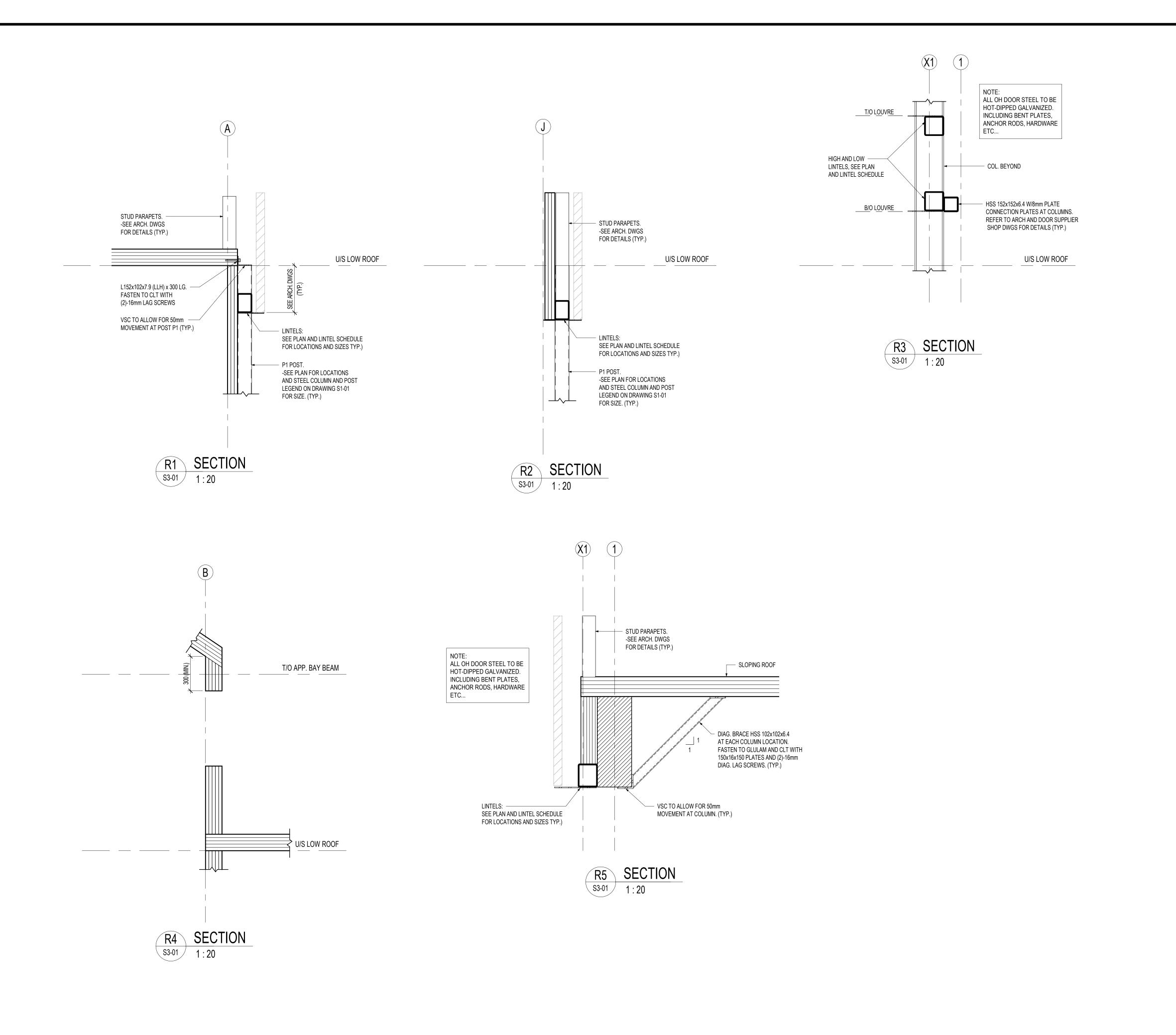
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PROFESSIONAL SEAL

ROOF SECTIONS

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S3-01

1.1. DESIGN AND CONSTRUCTION IS TO CONFORM TO THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE, AND ANY APPLICABLE REQUIREMENTS OR BY-LAW OF THE AUTHORITY HAVING JURISDICTION. REFER ALSO TO TYPICAL DETAILS, NOTES UNDER PLANS AND SCHEDULES ON THE STRUCTURAL DRAWINGS, AND TO THE SPECIFICATION. ALL CODES, MANUALS, STANDARDS AND SPECIFICATIONS REFERRED TO SHALL BE THE SPECIFIC EDITION REFERENCED IN APPLICABLE BUILDING CODE INCLUDING ALL REVISIONS AND ADDENDA. ALL DIMENSIONS, OTHER THAN PURELY STRUCTURAL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE CHECKED AGAINST THE ARCHITECTURAL DRAWINGS AND ANY INCONSISTENCIES REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. STRUCTURAL

A02

GENERAL NOTES

.2. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS, TRENCHES, PITS, SUMPS, EQUIPMENT, SLEEVES, DEPRESSIONS, GROOVES AND CHAMFERS NOT INDICATED ON THE STRUCTURAL DRAWINGS. UNLESS SPECIFICALLY NOTED OTHERWISE, THE

ABOVE ITEMS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE INDICATED ONLY APPROXIMATELY AS TO SIZE AND LOCATION. .3. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PROVISION HAS BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION. THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILTY FOR ALL SUCH MEASURES. IT SHALL ALSO BE THE RESPONSIBLITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET PILING OR OTHER TEMPORARY SUPPORTS OF SAFEGUARD ALL EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR CONSULTANTS

SHOP DRAWINGS, PLACING DRAWINGS AND BAR LISTS 2.1. FOR ALL STRUCTURAL COMPONENTS SHOWN ON THE STRUCTURAL DRAWINGS, SUBMIT COPIES OF SHOP DRAWINGS AS DIRECTED FOR REVIEW BY THE STRUCTURAL CONSULTANT. SHOP DRAWINGS TO SHOW COMPLETE INFORMATION FOR THE FABRICATION AND ERECTION OF THE STRUCTURAL

2.2. REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL CONSULTANT IS ONLY TO ASSESS THAT THE SUBMITTED SHOP DRAWINGS REFLECT THE INTENT OF THE STRUCTURAL DESIGN. 2.3. REVIEW BY THE STRUCTURAL CONSULTANT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR SEEING THAT THE WORK IS COMPLETE, ACCURATE AND IN CONFORMITY WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.

INSPECTION AND TESTING 3.1. A SOILS CONSULTANT AND AN INDEPENDENT INSPECTION AND TESTING COMPANY ARE TO BE ENGAGED TO CARRY OUT THE FOLLOWING SERVICES BEARING SOIL - REFER TO NOTES ON STRUCTURAL DRAWINGS AND ALSO TO THE SOIL REPORT. FILL UNDER SLAB-ON-GRADE - CONFORM THAT FILL MATERIAL USED IS SATISFACTORY AND THAT THE REQUIRED DEGREE OF

COMPACTION HAS BEEN ATTAINED CAST-IN-PLACE AND PRECAST CONCRETE - ROUTINE INSPECTION OF MATERIALS, INCLUDING SLUMP, CYLINDER AND AIR ENTRAINMENT TESTS AND REINFORCING ROD TESTS WHEN REQUIRED OR DIRECTED IN ACCORDANCE WITH CSA STANDARD A23.2. THE PROJECT SUPERINTENDENT IS TO ADVISE THE STRUCTURAL CONSULTANT A MINIMUM OF 24 HOURS IN ADVANCE OF A CONCRETE

POUR FOR A REVIEW OF PREPARATIONS. STRUCTURAL STEEL AND OWSJ - ROUTINE SHOP AND FIELD INSPECTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE 3.1.5. REQUIREMENTS CSA S16.

STEEL DECK - SEE STEEL DECK NOTES. MASONRY - WHEN REQUIRED OR DIRECTED, CONCRETE BLOCKS SHALL BE TESTED IN ACCORDANCE WITH ASTM C140 BRICKS IN ACCORDANCE WITH CAN/CSA A82; AND MORTAR AND/OR GROUT IN ACCORDANCE WITH CSA A179. 3.2. ALL INSPECTION AND TESTING SERVICES ARE TO BE PERFORMED BY COMPANIES CERTIFIED BY THE CANADIAN STANDARDS ASSOCIATION AND

FOR WELDING, INSPECTORS ARE TO BE CERTIFIED BY THE CANADIAN WELDING BUREAU. **FOUNDATIONS** 4.1. REFER TO NOTES UNDER FOUNDATION PLANS. ALL EXTERIOR FOOTINGS OR OTHER FOOTINGS EXPOSED TO FREEZING IN THE FINISHED BUILDING SHALL BE FOUNDED AT A MINIMUM OF 1200mm (4'-0") BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. FOOTINGS EXPOSED TO FROST ACTION DURING

CONSTRUCTION SHALL BE PROTECTED BY A MINIMUM OF 1200mm (4'-0") OF EARTH OR ITS EQUIVALENT SUFFICIENT TO PREVENT FREEZING. 4.2. THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10, MAXIMUM STEP APPROX. 600mm (2'-0").

4.3. PIER DEPTHS AND FOOTING ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THE STRUCTURAL DRAWINGS. 4.4. IF ACTUAL JOB SITE OR SOIL CONDITIONS VARY FROM THOSE ASSUMED, THEN WRITTEN DIRECTIONS MUST BE OBTAINED FROM THE

STRUCTURAL CONSULTANT BEFORE PROCEEDING WITH THE WORK. 4.5. KEEP EXCAVATIONS CONTINUOUSLY DRY BEFORE CONCRETE IS PLACED. IF THE SOIL IS SOFTENED BY WATER, THE EXCAVATION SHALL BE EXTENDED BELOW THE SOFTENED MATERIAL AND THE BOTTOM OF THE FOOTINGS LOWERED TO SUIT. BACKFILLING AND COMPACTION

STRUCTURAL STEEL NOTES

PROFESSIONAL ENGINEER EXPERIENCED IN THIS TYPE OF WORK.

2.1. STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA-G40.20/G40.21

2.4. NUTS AND WASHERS TO CONFORM TO ASTM A563 AND ASTM F436.

3.1. FABRICATION, HANDLING AND ERECTION TO CONFORM TO CAN/ CSA - S16.

(* NOTE, USE BACK-UP WYTHE THICKNESS ONLY, FOR CAVITY WALLS.)

DIFFERENTIAL VERTICAL MOVEMENT BETWEEN STRUCTURAL MEMBERS AND MASONRY.

TOUCH-UP" BOLTS, WELDS, BURNED OR SCRAPED SURFACES AFTER ERECTION.

.....1:500 (1/4" IN 10'-0")

4.2 SEE SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS.

2.1.1. S SHAPES, PLATES AND RODS: - GRADE 300 W

2.1.2. HSS SECTIONS: - GRADE 350W (CLASS C U/N)

2.6. WELDING MATERIALS TO CONFORM TO CSA W48.

DETAILS IF SHOWN). SPACING OF ANCHORS TO BE:

FOR VERTICAL SPACING

INTERRUPTED. (EG. AT COLUMNS)

3.9. TOLERANCES:

. QUALITY CONTROL

OTHER PIECES

SPECIFICATIONS

IS PERMANENT FOR FINISHED BUILDING ONLY.

FABRICATION AND ERECTION OF THE STEEL STRUCTURE.

PERMISSION OF THE STRUCTURAL CONSULTANT.

FOR HORIZONTAL SPACING

1.2. REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND TO THE SPECIFICATION.

5.1. SLABS-ON-GRADE AND ALL STRUCTURAL ELEMENTS FRAMING INTO WALLS WHICH RETAIN EARTH MUST BE IN PLACE BEFORE BACKFILLING. 5.2. AT FOUNDATION WALLS WITH GRADE BOTH SIDES, UNLESS ADEQUATELY SHORED, BACKFILL AND COMPACT EACH SIDE OF WALL SIMULTANEOUSLY. 5.3. UNDER SLAB-ON-GRADE, REMOVE SOFT SPOTS, ORGANIC AND FOREIGN MATTER IN THE SUB-GRADE. (WHERE SUB-GRADE CONSISTS OF

COMPACTED FILL, REFER TO SPECIFIC NOTES ON THE DRAWINGS). 5.4. BACKFILL UNDER SLAB-ON-GRADE, IN FOOTING EXCAVATIONS AND IN TRENCHES ONLY WITH APPROVED MATERIAL. UNLESS SPECIFICALLY NOTED OTHERWISE, BACKFILLING SHALL BE CARRIED OUT IN MAXIMUM OF 200mm (8") THICK LIFTS OF LOOSE FILL EACH COMPACTED TO A MINIMUM OF 95%

5.5. UNLESS OTHERWISE NOTED IN GEOTECHNICAL REPORT, PROVIDE IMMEDIATELY UNDER SLABS-ON-GRADE A MINIMUM OF 200mm (8") OF COMPACTED (MTC) GRANULAR 'B' MATERIAL. COMPACTION TO ACHIEVE A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.

1.1. STRUCTURAL STEEL DESIGN DETAILS AND CONNECTIONS SHALL CONFORM TO CSA STANDARD S16 AND SHALL BE DESIGNED BY A

1.4. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF FACTORED VERTICAL SHEAR FORCE OF 50% OF THE BEAM SHEAR

2.3. ANCHOR RODS FOR BASE PLATES, BEARING PLATES AND WELD PLATES TO CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED.

2.7. SURFACE PREPARATION AND PRIMER PAINT FOR STRUCTURAL STEEL MEMBERS INSIDE VAPOUR BARRIER TO CONFORM TO CISC/CPMA

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

3.4. WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY (I.E. DOES NOT SUPPORT MASONRY) ANCHORS SHALL PERMIT

3.5. PROVIDE L76X76X6.4(MIN) ANGLE SEATS FOR ALL STEEL DECK AT LOCATIONS WHERE THE CONNECTION TO SUPPORTING FRAMING IS

3.6. CLEAN, PREPARE SURFACES AND SHOP PRIME STRUCTURAL STEEL WITH ONE COAT OF SPECIFIED PRIMER PAINT IN ACCORDANCE WITH

3.7. PROVIDE ALL NECESSARY TEMPORARY BRACING TO KEEP STRUCTURE SAFE AND PLUMB. BRACING SHOWN ON STRUCTURAL DRAWINGS

VARIATION FROM PLUMB AND LEVEL EXTERIOR COLUMNS, COLUMNS AT ELEVATOR SHAFTS, AND SPANDREL BEAMS INCLUDING ANGLES

3.10. NO HOLES OTHER THAN THOSE SHOWN ON REVIEWED SHOP DRAWINGS SHALL BE MADE IN ANY STEEL MEMBER WITHOUT WRITTEN

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

3.8. CO-ORDINATE WITH MECHANICAL AND ELECTRICAL CONSULTANTS AND SUB-TRADES WHOSE WORK MAY AFFECT DETAILING,

....1:1000 MAX. 25 mm (1/8" IN 10'-0" MAX. 1")

CAN/CSA - S16, EXCEPT WHERE MEMBERS ARE TO BE ENCASED IN CONCRETE, OR TO RECEIVE SPRAY APPLIED FIRE PROOFING. FIELD "

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

.... 10 TIMES WALL THICKNESS* (MAX. 2000 (6'-8") CENTRES)

CAPACITY. UNLESS OTHERWISE NOTED, AND IN NO CASE BE LESS THAN THE LOADS SHOWN ON OR IMPLIED BY THE DRAWINGS. WHERE

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

1.3. WELDING SHALL CONFORM TO CSA STANDARD W59 AND BE PERFORMED BY A FABRICATOR CERTIFIED TO CSA W47.1.

BOLTED CONNECTIONS ARE UTILIZED, A MINIMUM OF TWO BOLTS PER CONNECTION SHALL BE USED.

FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION.

2.1.3. WWF SHAPES, WT SHAPES AND W SHAPES, CHANNELS, ANGLES,: - GRADE 350W

2.2. BOLTS FOR CONNECTIONS TO CONFORM TO ASTM F3125/3125M, GRADE A325, UNLESS NOTED.

2.5. SHEAR STUDS WHERE REQUIRED TO CONFORM TO ASTM A108, WELDING TO CONFORM TO CSA W59.

1.73a OR CISC/CPMA 2.75 (IF EXPOSED TO VIEW), UNLESS NOTED ON DRAWINGS OR SPECIFICATIONS.

... 600 (24") MAX. CENTRES.

2.8. HOT DIP GALVANIZING WITH A MINIMUM ZINC COATING OF 600g/sq.m UNLESS OTHERWISE SPECIFIED.

PROVIDE ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO CARRY OUT THE WORK.

A03.1

CAST-IN-PLACE CONCRETE NOTES

BY THE STRUCTURAL CONSULTANT.

3.14. GENERAL REQUIREMENTS FOR CUTTING AND DRILLING INTO CONCRETE

AS AUTHORIZED BY PROPERTY MANAGER IF APPLICABLE

THE HOLE LOCATIONS AS DIRECTED BY THE STRUCTURAL CONSULTANT.

RESPONSIBILITY FOR THE ACCURACY OF THE X-RAY OR SCAN RESULTS.

OF HOLES TO PREVENT OVER CUTTING OF THE CORNERS.

4.1 FOR INSPECTION AND TESTING, SEE GENERAL NOTES AND/OR SPECIFICATION.

EXISTING REINFORCEMENT OR SERVICES WITHOUT PRIOR APPROVAL OF THE CONSULTANT.

(A) DO NOT DRILL INTO, CORE THROUGH, SAW-CUT OR CHIP THE CONCRETE STRUCTURE WITHOUT WRITTEN AUTHORIZATION

(B) UNLESS NOTED OTHERWISE, PRIOR TO CUTTING, CORING OR DRILLING INTO THE CONCRETE STRUCTURE, LOCATE EXISTING

(C) GPR SCANNING MUST BE DONE BY TRAINED TECHNICIANS WITH AT LEAST 5 YEARS OF EXPERIENCE AS SUCH.

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),

(D) GPR SCANNING DEVICES MUST BE CAPABLE OF ACCURATELY LOCATING REBAR IN A CONCRETE SLAB TO A MINIMUM DEPTH OF 300 mm,

THIN A HORIZONTAL TOLERANCE OF +- 25 mm AND A VERTICAL (DEPTH) TOLERANCE OF THE LARGER OF +-25 mm OR +- 15% OF THE

REVIEW AND APPROVE THE PROPOSED LOCATION OF OPENINGS, CORES OR DRILLED HOLES. MAKE ANY NECESSARY ADJUSTMENTS TO

(E) AFTER ALL THE EXISTING REINFORCEMENT AND SERVICES HAVE BEEN LOCATED, NOTIFY THE STRUCTURAL CONSULTANT, WHO WILL

(F) THE REVIEW BY THE STRUCTURAL CONSULTANT IS LIMITED ONLY TO THE LOCATION OF THE PROPOSED CORES OR DRILLED HOLES

REINFORCEMENT AND EMBEDDED SERVICES ARE COMPLETE AND ACCURATE. STEPHENSON ENGINEERING LTD. TAKES NO

(G) CORE DRILL NEW HOLES FOR PIPES TO A DIAMETER NOT LARGER THAN THE OUTSIDE PIPE DIAMETER PLUS 25MM. DO NOT CUT

THROUGH THE EXISTING STRUCTURE AND IT IS BASED ON THE ASSUMPTION THAT THE X-RAY OR SCAN RESULTS LOCATING SLAB

(H) WHERE RECTANGULAR OPENINGS ARE TO BE CUT. PRE-DRILL THE CORNERS USING A 100 MM DIAMETER CORE DRILL OR DRILL A SERIES

1.2. REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND SCHEDULES, TYPICAL DETAILS AND SPECIFICATION. PRODUCTS

CAST-IN-PLACE CONCRETE NOTES

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 DE-ICING SALT, ADMIXTURES SHALL CONFORM TO CSA

FORMWORK SHALL CONFORM TO CSA STANDARD A23.1 AND CSA STANDARD S269.1 AND FALSEWORK SHALL CONFORM TO CSA S269.1. IF SO INSTRUCTED, THE DESIGNS FOR THE FORMWORK SHALL BE SUBMITTED FOR REVIEW BEFORE CONSTRUCTION. FORMWORK DRAWINGS AND DESIGN SHALL BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER.

PROVIDE SLAB AND BEAM FORMS WITH AN UPWARD CAMBER AS INDICATED ON PLANS THUS . WHERE CAMBERS ARE NOT NOTED ON PLANS, CAMBER SLABS AND BEAMS FOR SPAN/500 AT INTERIOR BAYS, AND CANTILEVER LENGTH/250 AT CANTILEVER. CAMBER BOTH THE UNDERSIDE AND TOP OF CONCRETE IN A PARABOLIC PROFILE, WHILE MAINTAINING THE INDICATED STRUCTURAL THICKNESS OF MEMBERS. PROVIDE STANDARD ADJUSTABLE MASONRY ANCHOR SLOTS FOR ALL MASONRY FACING OR ABUTTING CONCRETE FACES.

PROVIDE AND/OR INSTALL STANDARD ADJUSTABLE INSERTS AND ALL OTHER CAST-IN INSERTS AS REQUIRED BY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATION. REINFORCING STEEL UNLESS SPECIFICALLY NOTED, SHALL BE DEFORMED BARS CONFORMING TO CAN/CSA -G30.18-M GRADE 400 (58000 PSI).

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 DAMPEN MIXTURE. COMPRESSIVE STRENGTH 50MPa 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 COMPATIBLE WITH APPLIED FINISHES. 2.15. SHEAR REINFORCEMENT AT SLAB CONNECTION AS SHOWN ON DRAWINGS AND DETAILS, SHALL BE STUDRAILS@ AS MANUFACTURED BY DECON®. THE COMPLETE AND FINISHED STUDRAILI® SHALL BE ICC ES EVALUATED AND WELDING SHALL TAKE PLACE IN A ICC ES APPROVED

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" ±1 1/8") UNLESS NOTED OTHERWISE. GREATER SLUMPS ARE

AND AUDITED FACILITY. STUDRAILS® SHALL CONFORM TO THE LATEST UPDATE OF ASTM A1044.

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 10000mm (30'-0") .UNLESS CONTROL

JOINTS ARE PROVIDED AS PER DETAIL CFW02. TOTAL LENGTH OF POUR TO BE DISCUSSED WITH ENGINEER PRIOR TO PROCEEDING. CONSTRUCTION JOINTS FOR WALLS, SLABS, AND BEAMS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE CONSTRUCTION. GENERALLY JOINTS IN SLABS SHALL BE AT RIGHT ANGLES TO THE SPANS, AT MID-SPAN IF POSSIBLE

AND CLEAR OF SUPPORTS AND POINT LOADS. INSERTS, FRAME-OUTS, SLEEVES, BRACKETS, CONDUITS AND FASTENING DEVICES, SHALL BE INSTALLED AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS IN A MANNER THAT SHALL NOT IMPAIR THE STRUCTURAL STRENGTH OF THE SYSTEM, BE SO INSTALLED THAT THEY SHALL NOT REQUIRE THE CUTTING, BENDING, OR DISPLACEMENT OF THE REINFORCING OTHER THAN AS SHOWN ON THE TYPICAL DETAILS. ELECTRICAL CONDUIT SHALL NOT PASS THROUGH A COLUMN, SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 SLAB THICKNESS OR

WALL OR BEAM IN WHICH IT IS EMBEDDED, SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTRE UNLESS APPROVED AND HAVE A MINIMUM CONCRETE COVER OF 25 mm (1") AND UNLESS SPECIFICALLY PERMITTED OTHERWISE, SHALL NOT RUN HORIZONTALLY IN A

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 HONEYCOMBING

SHALL BE CUT OUT AND FILLED. FLOOR FINISHES SHALL BE AS REQUIRED BY THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND SHALL CONFORM TO CSA STANDARD A23.1 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.

1.1. THE FOLLOWING NOTES INDICATE ONLY THE MINIMUM REQUIREMENTS APPLICABLE TO STRUCTURAL WOOD CONSTRUCTION. SEE ALSO

BE PROPOSED WHEN ACCOMPANIED BY PERTINENT DESIGN CRITERIA AND NO ALTERNATIVE MAY IMPEDE THE BASE BUILDING

2.1. LUMBER:- UNLESS OTHERWISE NOTED TO BE SPRUCE-PINE-FIR (SPF) SPECIES, GRADE NO. 2, CONFORMING TO CSA-0141 WITH A MAXIMUM

MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION. LUMBER SHALL BEAR THE GRADING STAMP OF AN AGENCY APPROVED BY THE

TO CSA STANDARD B111; GALVANIZED FOR EXTERIOR WORK, OR HIGHLY HUMID AREAS AND FOR TREATED LUMBER; PLAIN ELSEWHERE.

FRAMING ANCHORS, JOIST HANGERS, BEAM HANGERS, POST CAPS, POST ANCHORS, BACK-UP CLIPS AND ANGLES, UNLESS OTHERWISE

TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS UTILIZING "SPECIAL" NAILS WHERE REQUIRED.

SHOWN ON THE STRUCTURAL DRAWINGS, ARE ALL TO BE AS MANUFACTURED BY AN APPROVED EQUAL, SIZED TO THE JOB AT HAND. ALL ARE

.1 PROVIDE JOISTS OF SIZE, SPACING AND SPAN AS NOTED ON THE STRUCTURAL DRAWINGS. UNLESS OTHERWISE NOTED, JOISTS SHALL BE

.2 WHERE JOISTS FRAME INTO THE SIDE OF A STEEL BEAM, JOISTS SHALL BE SUPPORTED ON THE BOTTOM FLANGE OF THE BEAM OR ON

NOT LESS THAN 38x65 (2x3) LUMBER BOLTED TO THE WEB WITH MINIMUM 6mm (1/4") DIAMETER BOLTS AT MAXIMUM 600 mm (24")

.1 PROVIDE CROSS-BRIDGING OR SOLID BLOCKING OR APPROVED PROPRIETARY METAL STRAPS IN ACCORDANCE WITH THE ONTARIO

PROVIDE CONTINUOUS WOOD STRAPPING ACROSS BOTTOM OF JOISTS ASWHEN REQUIRED BY THE ONTARIO BUILDING CODE.

.2 AT EDGES OF PANELS, PROVIDE NOT LESS THAN 39mmx39mm (2"x2") BLOCKING SECURELY NAILED BETWEEN FRAMING MEMBERS,

.5 SUB-FLOORING SHALL BE GLUED AND NAILED TO ALL JOISTS. GLUE TO BE A HIGH SOLIDS, RUBBER CONTACT TYPE SUPPLIED IN

.4 EXTERIOR TYPE PLYWOOD USED AS ROOF AND/OR WALL SHEATHING SHALL BE LEGIBLY IDENTIFIED THAT THE MATERIAL IS OF EXTERIOR

CARTRIDGES. USE A CONTINUOUS GLUE BEAD AND RUN A THIN BEAD INTO GROOVES JUST BEFORE INSERTING GROOVES OF T & G

.1 TO BE TYPE AND THICKNESSES SHOWN ON THE STRUCTURAL DRAWINGS. INSTALLED WITH END JOINTS STAGGERED.

1.2. WOOD CONSTRUCTION SHALL CONFORM TO CSA-086 & AND TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.

1.3. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS OF AIR SPACES, INSULATION, ROOFING, FLOOR AND WALL FINISHES.

STRUCTURE. ACCEPTANCE OF ALTERNATIVE PRODUCT SHALL ONLY BE IN WRITING ISSUED SOLELY BY THE ARCHITECT.

NAILING OF FRAMING UNLESS OTHERWISE NOTED, SHALL CONFORM TO ARTICLE 9.23.3 IN THE ONTARIO BUILDING CODE.

.2 NON-LOAD BEARING STUD WALLS TO CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.

ARCHITECTURAL DRAWINGS AND THE SPECIFICATION (IF APPLICABLE) FOR REQUIREMENTS FOR NON-STRUCTURAL WOOD FRAMING.

1.4. DUE TO THE CUSTOMIZED DETAILING AND ENGINEERING CHARACTERISTICS OF THE FRAMING ASSEMBLY, MICROLAM LVL, PARALLAM PSL AND

WOOD I JOISTS BY TRUSS JOIST MacMILLAN HAVE BEEN USED AS A BASE AND ARE SHOWN ON THE DRAWINGS. ALTERNATIVE PRODUCTS MAY

WOOD FRAMING NOTES

CANADIAN LUMBER STANDARDS ADMINISTRATION BOARD.

SUB-FLOORING IN ARTICLE 9.23.14

ROOF SHEATHING IN ARTICLE 9.23.15

*WALL SHEATHING IN ARTICLE 9.23.16

2.5. WOOD PRESERVATIVES (PRESSURE TREATED): WHERE REQUIRED TO CONFORM TO CSA-080 SERIES

2.3. NAILS, SPIKES, AND STAPLES:

2.4 ROUGH HARDWARF

2.6. FRAMING ANCHORS:

3. EXECUTION

3.1. STUD WALLS:

CENTRES

3.3. BRIDGING OR BLOCKING:

BUILDING CODE.

3.4. SUB-FLOORING AND ROOF SHEATHING:-

UNLESS OTHERWISE APPROVED.

.7 MAKE BUTT JOINTS ON SOLID MATERIAL.

2.2. COMPLY WITH THE REQUIREMENTS OF ONTARIO BUILDING CODE FOR:-

(* REFER ALSO TO NOTES & DETAILS ON DRAWINGS AND TO ALL OTHER TYPICAL NOTES.)

BOLTS, NUTS, WASHERS, LAGS, PINS, SCREWS, ALL TO BE HOT DIP GALVANIZED.

2.7. SHEATHING - PLYWOOD TO CONFORM TO CSA STANDARD 0121, OR 0151.

.1 SEE LOAD BEARING WOOD STUD WALL FRAMING NOTES.

CONTINUOUS IN ANY 1 SPAN WITH NO SPLICE.

WAFERBOARD AND STRANDBOARD TO CONFORM TO CSA-0437 SERIES.

.3 SPACING OF BRIDGING TO BE AT 2100 mm (6'-10") MAXIMUM CENTRES.

.3 FOR ROOF SHEATHING PROVIDE AT LEAST A 2 mm (1/16") GAP BETWEEN SHEETS.

.6 NAILS TO BE 44 mm (13/4") SPIRAL OR RING THREAD AT 600 mm (24") ON CENTRES MAXIMUM.

WOOD FRAMING NOTES

4. QUALITY CONTROL

3.5. WALL SHEATHING SHALL BE INSTALLED SO THAT ALL ENDS ARE SUPPORTED WITH END JOINTS STAGGERED. A GAP OF NOT LESS THAN 2mm (1/16") SHALL BE LEFT BETWEEN SHEETS OF PLYWOOD, WAFER BOARD OR FIBRE BOARD.

3.6. NOTCHING AND DRILLING: ONLY ALLOWED WITHIN THE LIMITATIONS SET OUT IN THE ONTARIO BUILDING CODE.

3.7. BRICK VENEER: .1 UNLESS OTHERWISE NOTED, BRICK VENEER IS TO BE TIED TO WOOD STUDS WITH A MIN. 0.76x22 mm (22 GAUGE x 7/8") GALVANIZED CORRUGATED STRIP TIES SPACED AT MAX. 400X600 (16"X24") CENTRES, ON EVERY STUD. STRIP TIES TO CONFORM TO CSA-A370.

.2 IF BRICK VENEER EXCEEDS 11000mm (36'-0") HIGH, CORRUGATED STRIP TIES ARE NOT TO BE USED, OBTAIN DIRECTIONS BEFORE PROCEEDING LAMINATED VENEER LUMBER (LVL), PARALLEL STRAND LUMBER (PSL), GLUED-LAMINATED TIMBER (GLULAM)

4.1. SEE NOTE #1.4 ABOVE. ACCEPTANCE OF ALTERNATIVE PRODUCTS SHALL ONLY BE IN WRITING ISSUED SOLELY BY THE ARCHITECT. 4.2. BEAMS, LINTELS AND JOISTS SHALL BE AS SUPPLIED BY AN APPROVED MANUFACTURER.

SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S STANDARDS AND APPLICABLE CSA STANDARDS. 4.4. ALL MEMBERS SHALL BEAR IDENTIFICATION MARKS OF THE MANUFACTURER.

4.5. EXECUTION: .1 MINIMUM END BEARING SHALL BE 75mm (3") UNLESS NOTED.

OR PROTECTED AT THE BEARING WITH A MIN. OF 0.05 POLYETHYLENE FILM.

.2 FOR SINGLE SPANS LVL SHALL NOT BE SPLICED BUT SHALL BE CONTINUOUS BETWEEN SUPPORTS. .3 WHERE INDIVIDUAL MEMBERS ARE BUTTED TOGETHER, JOINTS SHALL OCCUR OVER SUPPORTS, EXCEPT THAT WHERE BEAMS ARE CONTINUOUS OVER MORE THAN ONE SUPPORT, JOINTS MAY BE LOCATED WITHIN 150mm (6") OF THE QUARTER POINTS OF THE

CLEAR SPANS. SUCH JOINTS SHALL BE STAGGERED END FOR END. .4 NAILING AND/OR BOLTING: OF MULTI-PLYS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND IN NO CASE LESS THAN 2 ROWS OF 16d (3 1/2")

NAILS AT 300mm (12") CENTRES, EACH ROW. 5 NAILS INTO EDGES OF LVL SHALL BE SPACED AT A MINIMUM OF 75mm (3") FOR 8d (2 1/2") NAILS AND 100 (4") FOR 10d (3") NAILS. .6 LVL BEARING ONTO MASONRY OR CONCRETE AT OR BELOW GRADE LEVEL SHALL BE PRESSURE TREATED (PT) TO PREVENT DECAY

.7 NOTCHING & DRILLING: PERMITTED ONLY WITH APPROVAL AND WITHIN THE LIMITATIONS SPECI-FIED IN THE ONTARIO BUILDING CODE. 4.6. LVL SHALL BE RESTRICTED TO DRY SERVICE LOCATIONS, AND SHALL NOT BE USED DIRECTLY EXPOSED TO WEATHER OR IN HIGH HUMIDITY AREAS WHEN A MOISTURE CONTENT EXCEEDING 19% CAN RESULT.

4.7. GLULAM TIMBER PRODUCTS SHALL CONFORM TO CSA-086, CSA-0122 AND BE MANUFACTURED IN ACCORDANCE WITH CSA-0177. 4.8. CONNECTIONS TO CONFORM TO CSA-G40.20/G40.21, PRIMED OR GALVANIZED AS NOTED TO CGSB-1.40 OR CSA-G164. WELDING TO CSA-W59

4.9. SUBMIT SHOP DRAWINGS AS DIRECTED. i. WOOD I JOISTS

5.1. SEE NOTE #1.4 ABOVE

5.2. ALL MATERIALS AND ADHESIVES SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S STANDARDS AND APPLICABLE CSA

5.3. WOOD I SHALL BE FABRICATED WITH A STRUCTURAL CONNECTION OF THE CHORDS TO THE WEB MATERIAL UTILIZING A PRESSURE GLUED TONGUE AND GROOVE JOINT. 5.4. SHOP DRAWINGS:

SHOWING DIMENSIONS, TYPICAL DETAILS, PLANS, INSTALLATION PROCEDURES AND IDENTIFICATION MARKS SHALL BE SUBMITTED FOR REVIEW WHEN REQUESTED. SHOP DRAWINGS TO BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER. 5.5. ALL MEMBERS TO BEAR IDENTIFICATION MARKS OF THE APPROVED MANUFACTURER.

5.6. EXECUTION:

.1 MINIMUM END BEARING SHALL BE 75mm (3") UNLESS NOTED. .2 HANDLING, INSTALLATION, ANCHORAGE, BRACING AND BLOCKING OF WOOD I SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REVIEWED SHOP DRAWINGS AND DIRECTIONS.

.3 HOLES THROUGH WEBS PERMITTED ONLY WITHIN THE LIMITS PERMITTED BY THE MANUFACTURER. .4 NO CUTTING, NOTCHING OR DRILLING OF THE TOP AND BOTTOM CHORD IS PERMITTED WITHOUT THE SPECIFIC APPROVAL OF THE MANUFACTURER.

POLYETHYLENE FILM. 5.8. WOOD I SHALL NOT BE USED DIRECTLY EXPOSED TO WEATHER OR IN HIGH HUMIDITY AREAS WHEN A MOISTURE CONTENT EXCEEDING 19%

5.7. WOOD I BEARING ONTO MASONRY OR CONCRETE AT OR BELOW GRADE SHALL BE PROTECTED AT THE BEARING WITH A MIN. OF 0.05

CAN RESULT.

APPROVAL STAMP

A03.2

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SEPT/18/23

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AND MUST BE RETURNED UPON COMPLETION OF THE WORK **ISSUE OR REVISION**

NO. ISSUED FOR ISSUED FOR PERMIT ISSUED FOR TENDER



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR

O COMMENCEMENT OF THE WORK, ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT



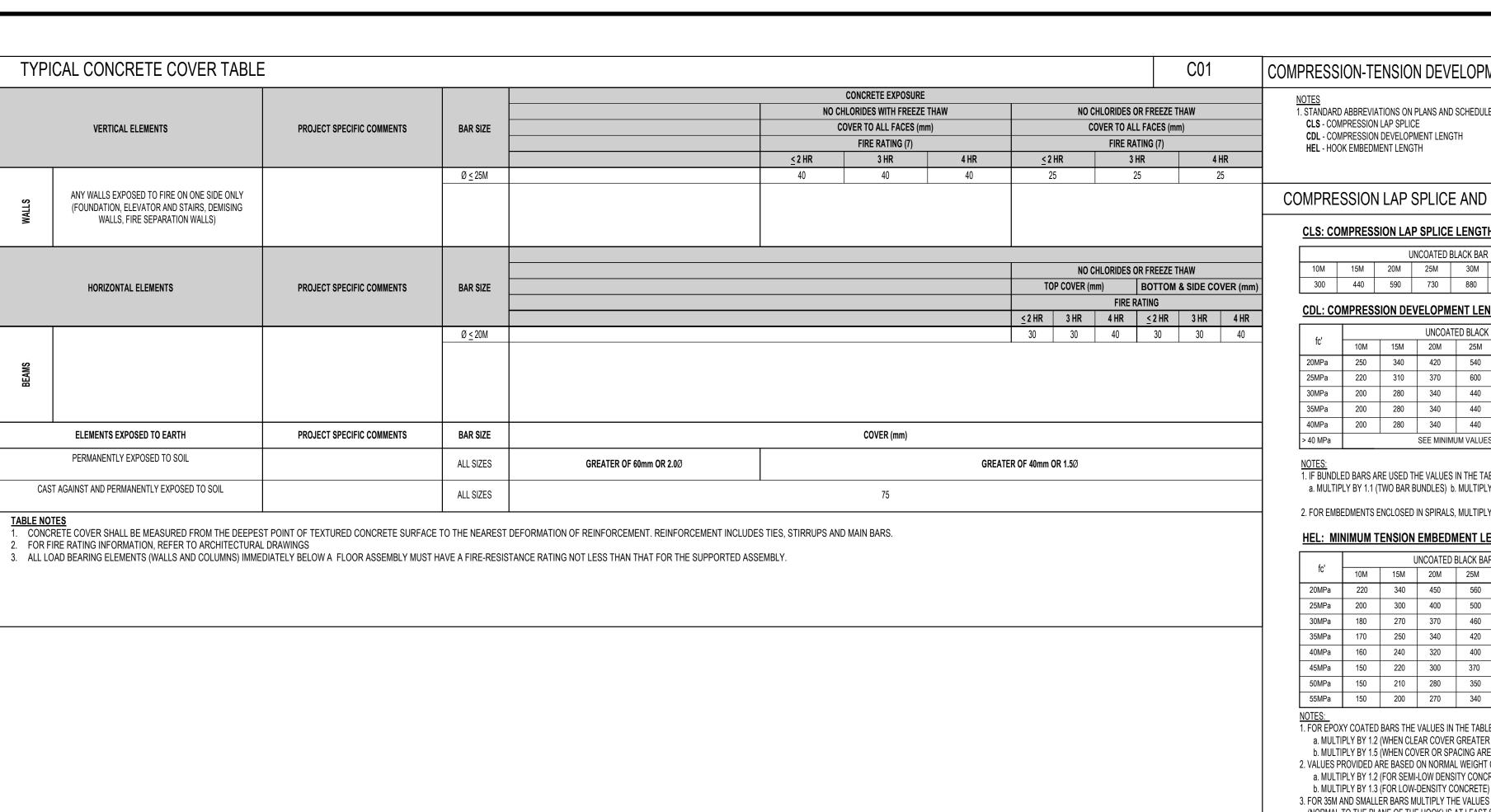
Stephenson Engineering, a company of Salas O'Brien

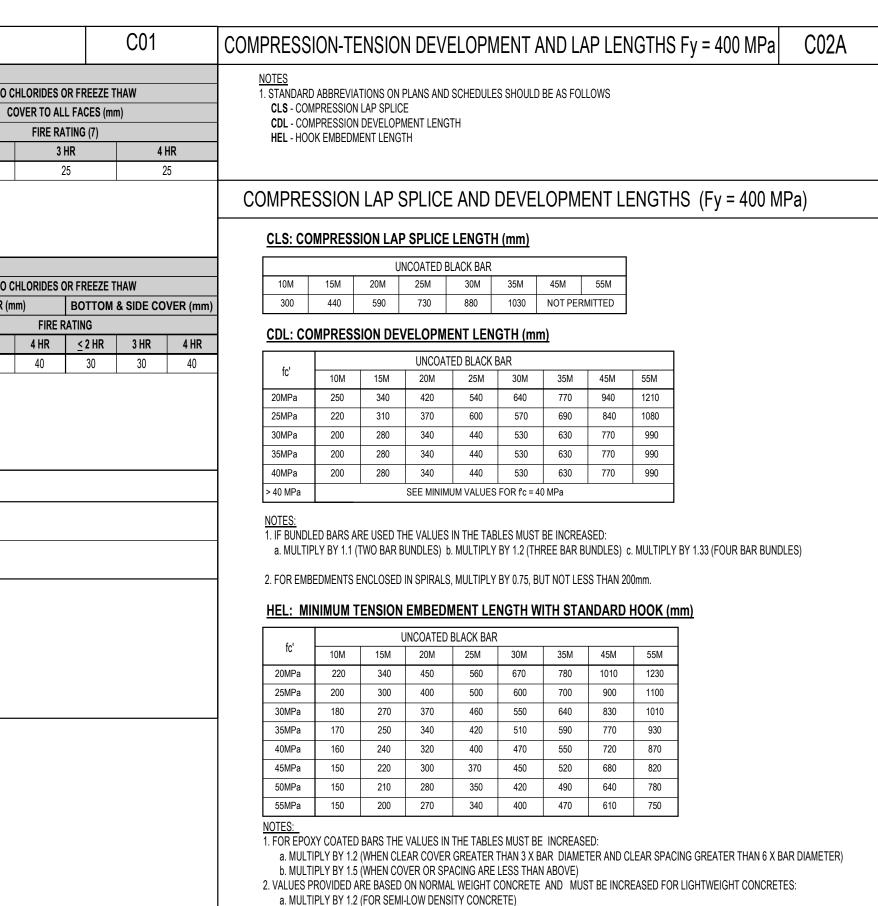
PROFESSIONAL SEAL

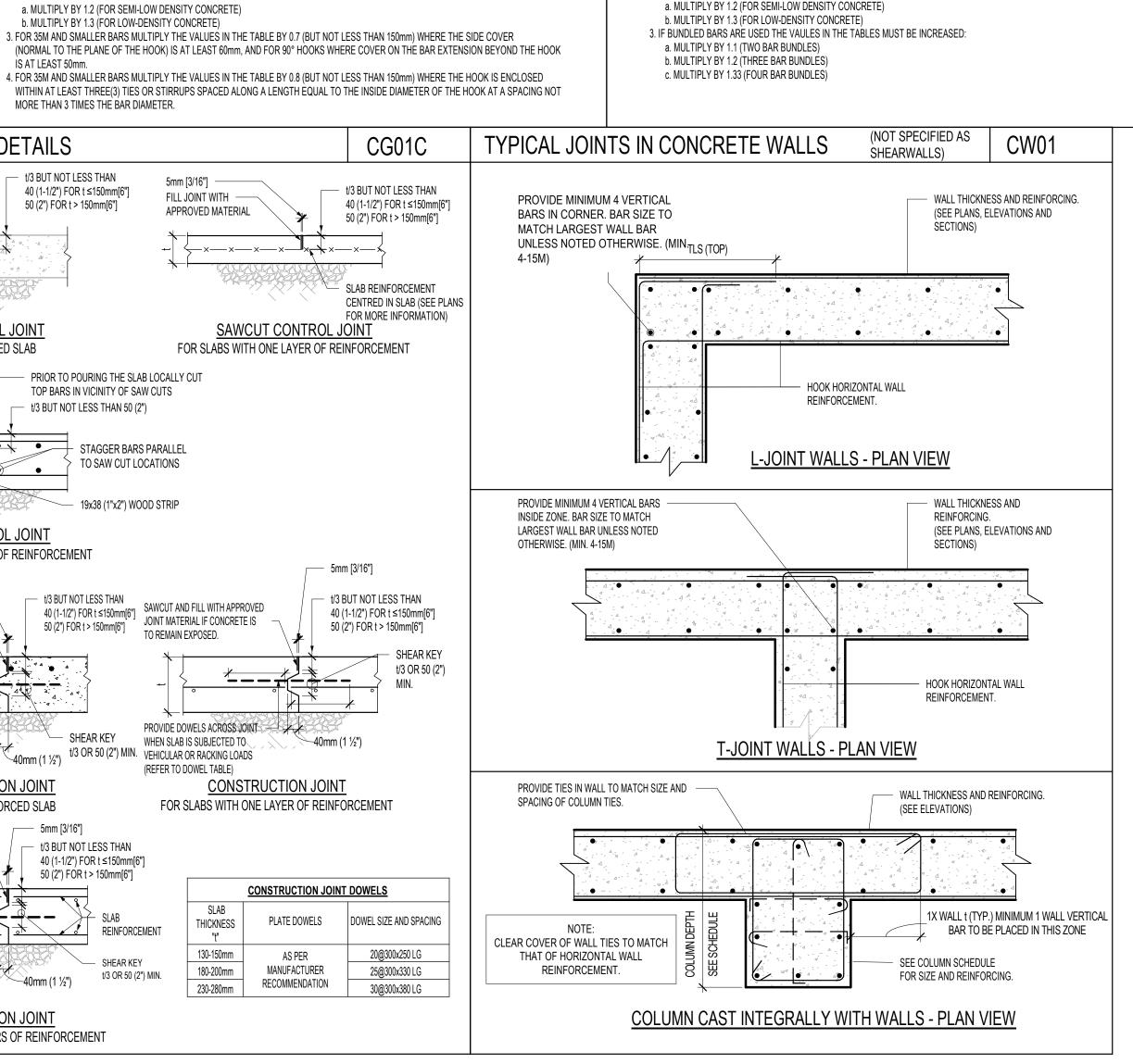
GENERAL NOTES

DEC. 2023

TENDER ISSUE





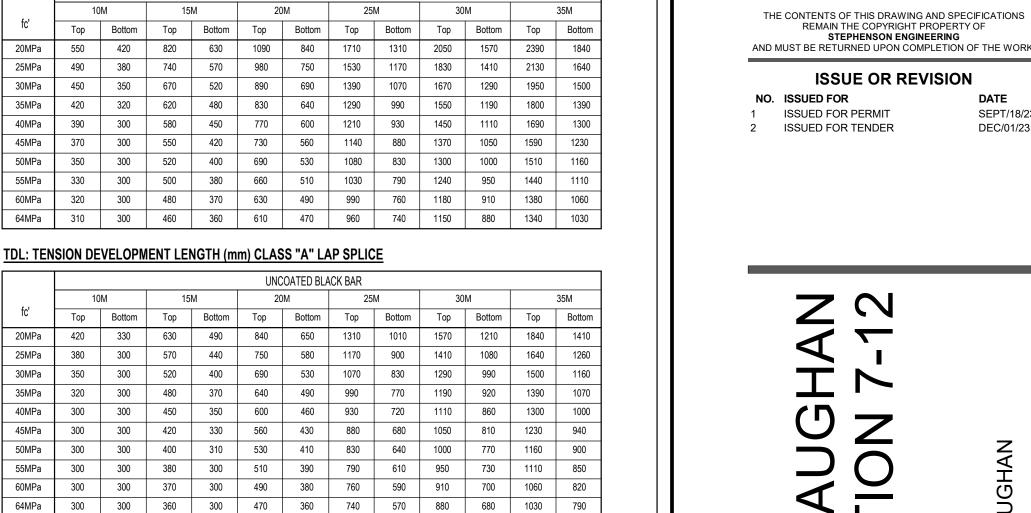


1. FOR EPOXY COATED BARS THE VALUES IN THE TABLES MUST BE INCRESED:

b. MULTIPLY BY 1.5 (WHEN COVER OR SPACING ARE LESS THAN ABOVE)

a. MULTIPLY BY 1.2 (WHEN CLEAR COVER GREATER THAN 3 X BAR DIAMETER AND CLEAR SPACING GREATER THAN 6 X BAR DIAMETER)

2. VALUES PROVIDED ARE BASED ON NORMAL WEIGHT CONCRETE AND MUST BE INCREASED FOR LIGHTWEIGHT CONCRETES.



TENSION DEVELOPMENT AND LAP SPLICE LENGTHS Fy = 400 MPa C02B

TENSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 400 MPa)

1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOW

TLS - TENSION LAP SPLICE

TDL - TENSION DEVELOPMENT LENGTH

TLS: TENSION LAP SPLICE LENGTH (CLASS B) (mm)

VAUGHAN THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT. 2235 Sheppard Ave. E. PROFESSIONAL SEAL TYPICAL DETAILS

APPROVAL STAMP

SEPT/18/23



DEC. 2023

TENDER ISSUE

CG01B SLAB ON GRADE DETAILS SLAB ON GRADE DETAILS SLAB ON GRADE DETAILS (READ IN CONJUNCTION WITH DETAILS CG01A, CG01C) (READ IN CONJUNCTION WITH DETAIL CG01B, CG01C) SEE EXAMPLE B SEE EXAMPLE A -/-- -- -- --- EDGE OF CIRCULAR SAW CUT FOOTING BELOW SLAB ON GRADE SAW CUT - SAW CUT EDGE OF PIER .**_**_____ BELOW SAWCUTS —— SEE NOTE 1 SEE NOTE 2 SEE NOTE 2 -SEE EXAMPLE C SEE ALTERNATE OPTION ___ EDGE OF SLAB ON GRADE CAISSON EDGE OF PIER BELOW BELOW EDGE OF OUTLINE OF SONOTUBE CAISSON CAP BELOW SEE NOTE 2 SEE NOTE 1 - SAWCUT SEE NOTE 2 SEE NOTE 2 CONCRETE WALL 150mm (6") BEYOND PLACE THIS CONC. NOT CONCRETE COLUMNS LESS THAN 7 DAYS CONCRETE 75mm (3") BEYOND AFTER SURROUNDING - SEE NOTE 2 COLUMN BASEPLATE FOR STEEL AREA STEEL TROWEL COLUMNS. SURFACE OF CONC. STEEL COLUMN STEEL COLUMN CONCRETE COLUMN CONCRETE COLUMN CONCRETE COLUMN FORMED VERTICAL SAW CUT CONTROL JOINT (SONOTUBE OR - SEE NOTE 2 METAL FORM) SLAB ON GRADE SLAB ON GRADE - CONCRETE PIER CIRCULAR COLUMN COLUMN > PIER CAISSON FOOTING SEE NOTE 1 EXAMPLE A **EXAMPLE B EXAMPLE C ALTERNATE OPTION**

SAWCUTTING TO BE DONE AS SOON AS POSSIBLE AFTER SLAB IS PLACED. (MAX. 24 HOURS).

TO CONSULTANT FOR REVIEW, WELL IN ADVANCE OF POURING SLAB ON GRADE.

CEMENT, SAND AND LATEX BONDING AGENT, OR AS NOTED IN SPECIFICATIONS.

8. REFER TO TYPICAL DETAIL CG01B, CG01C FOR SAW CUT DETAILS.

CONTAINING CEMENT, SAND AND LATEX BONDING AGENT OR AS NOTED IN SPECIFICATIONS.

THICKNESS FOR AGGREGATE SIZE LARGER THAN 19mm (3/4"), BUT NOT MORE THAN 4500mm (14'-9")

JOINTS TO BE AT MAX. 24x SLAB THICKNESS FOR MAXIMUM AGGREGATE SIZE SMALLER THAN 19mm(¾") AND 30 TIMES SLAB

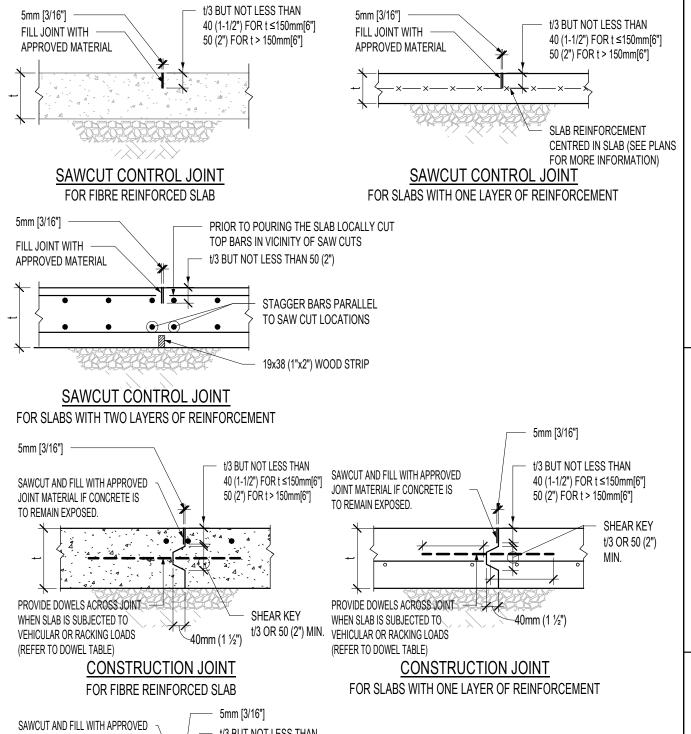
SAWCUT SLAB ON GRADE AT LOCATIONS SHOWN ON PLAN OR AS NOTED BELOW. ALTERNATE LOCATIONS SHALL BE SUBMITTED

AFTER THE SLAB IS A MINIMUM 60 DAYS OLD, REMOVE ALL DEBRIS FROM THE SAW CUTS AND FILL WITH MORTAR CONTAINING

PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT ROUT ALL CRACKS IN THE SLAB ON GRADE AND FILL WITH MORTAR

MAXIMUM RATIO BETWEEN LENGTH AND WIDTH OF ANY PANEL (CREATED BY SAWCUT) SHOULD NOT EXCEED 1.5

COORDINATE EXACT LOCATIONS OF SAWCUTS IN SLAB ON GRADE WITH ARCHITECTURAL REQUIREMENTS.



t/3 BUT NOT LESS THAN 40 (1-1/2") FOR t ≤150mm[6"] 50 (2") FOR t > 150mm[6"]

---+--REINFORCEMENT THICKNESS 130-150mm 180-200mm t/3 OR 50 (2") MIN.

PLATE DOWELS DOWEL SIZE AND SPACING 20@300x250 LG 25@300x330 LG MANUFACTURER RECOMMENDATION 30@300x380 LG

CONSTRUCTION JOINT DOWELS

230-280mm

PROVIDE DOWELS ACROSS JOINT WHEN SLAB IS SUBJECTED TO 40mm (1 ½") VEHICULAR OR RACKING LOADS (REFER TO DOWEL TABLE)

CONSTRUCTION JOINT

MORE THAN 3 TIMES THE BAR DIAMETER.

FOR SLABS WITH TWO LAYERS OF REINFORCEMENT

NOTES: 1. 1-15 T&Bx1500(5'-0") LG AT EACHCORNER TYP. U.N.O.

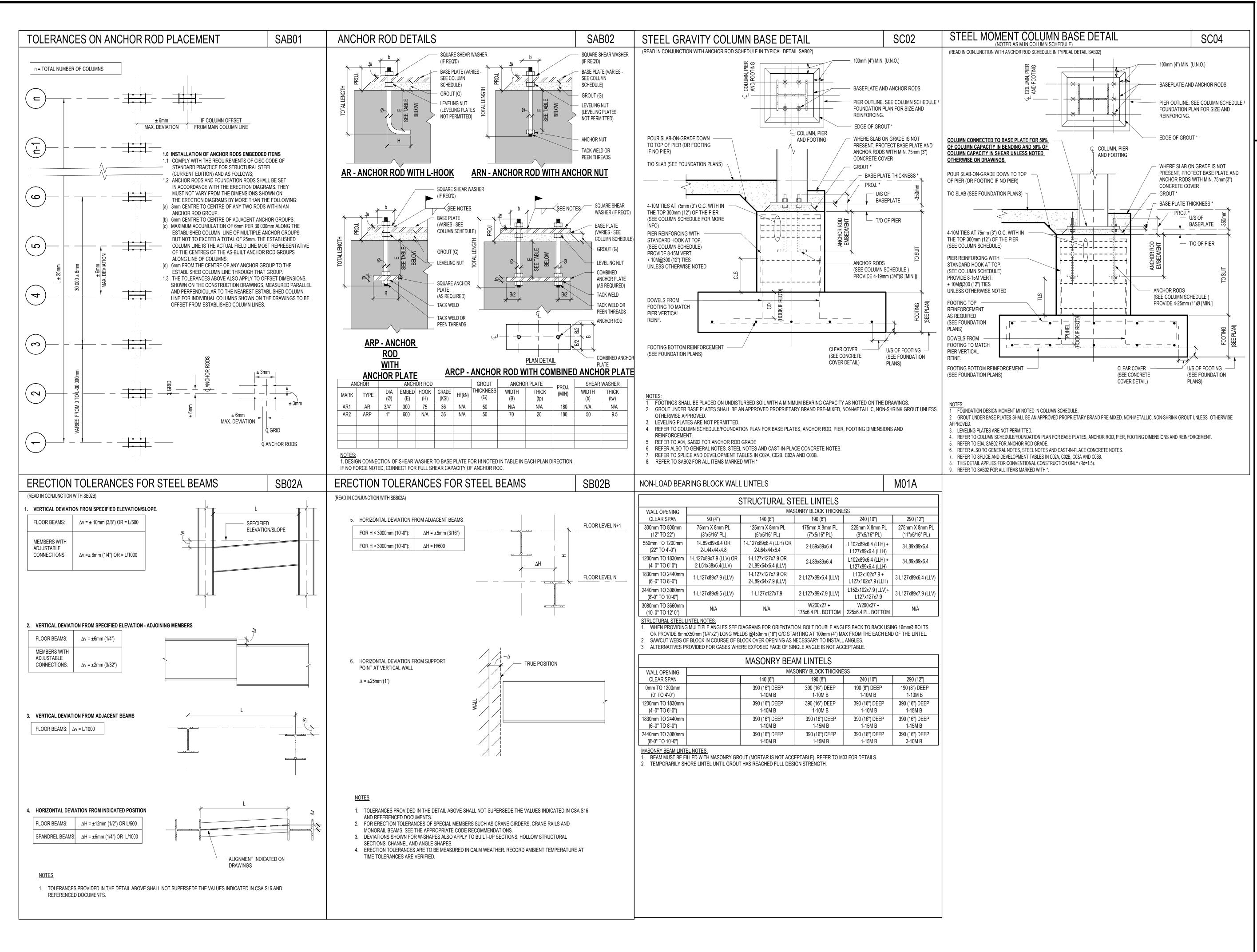
2. WHERE CORNER TRIM BARS ARE SHOWN DASHED THEY ARE NOT REQUIRED IF SAW CUTS ARE PROVIDED 3. READ IN CONJUNCTION WITH CG01A,C.

AS SHOWN. OTHERWISE PROVIDE 1-15 T&Bx1500(5'-0") LG. 4. FOLLOW DETAILS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

 SAW CUT _**L**_____

SLAB ON GRADE

JOINT MATERIAL IF CONCRETE IS TO REMAIN EXPOSED. SEE NOTE 2



APPROVAL STAMP

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ISSUE OR REVISION

NO. ISSUED FOR

2 ISSUED FOR TENDER DEC/01/23

VAUGHAN

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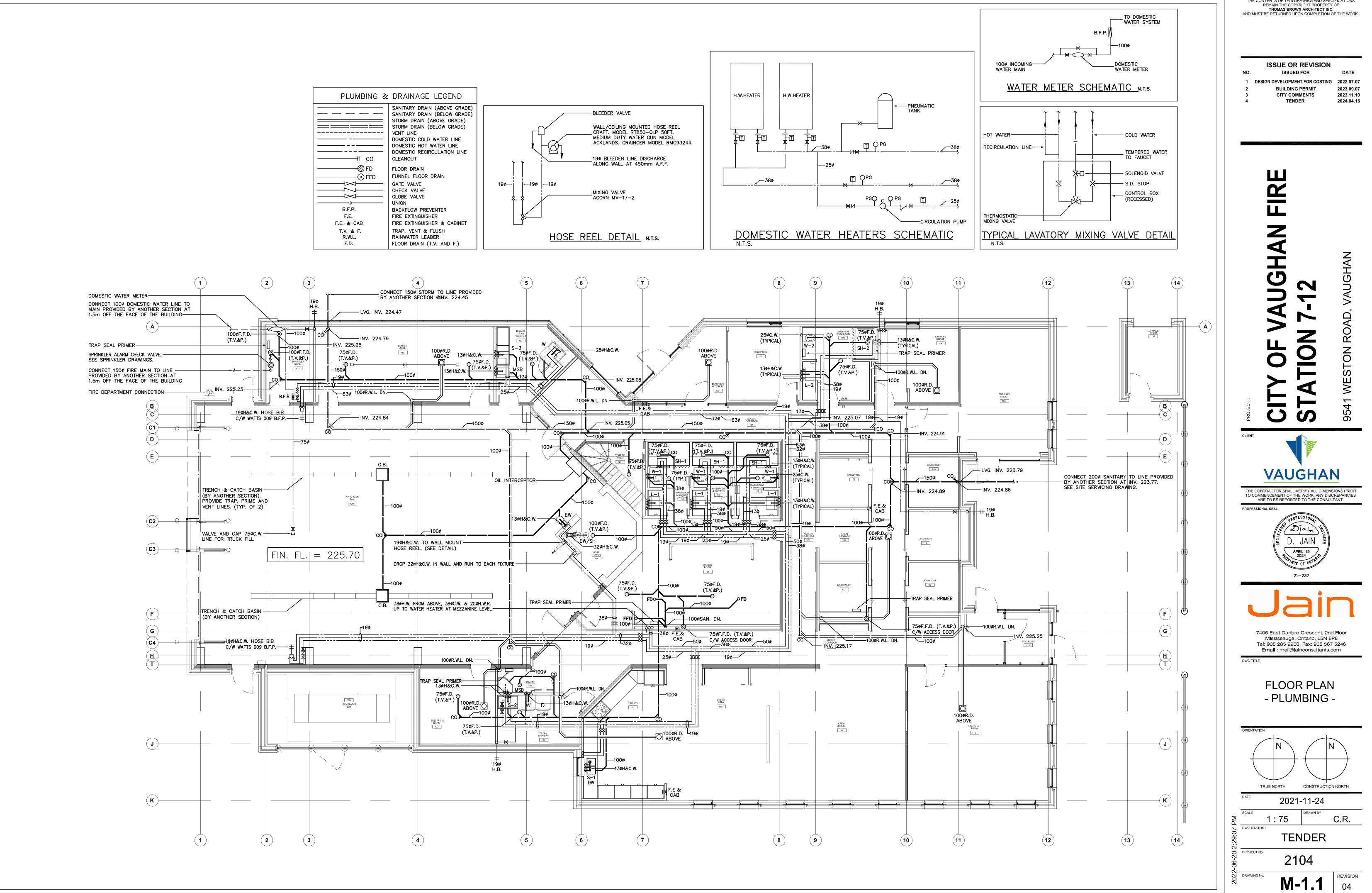
Salas 2235 Sheppard Ave. E. Toronto, ON Stephenson Engineering, a company of Salas O'Brien

PROFESSIONAL SEAL

TYPICAL NOTES

DEC. 2023

TENDER ISSUE



THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS

ISSUE OR REVISION ISSUED FOR 1 DESIGN DEVELOPMENT FOR COSTING 2022.07.07 **BUILDING PERMIT** CITY COMMENTS

TENDER

2023.09.07 2023 11 10 2024.04.15

SANITARY DRAIN (ABOVE GRADE) SANITARY DRAIN (BELOW GRADE) STORM DRAIN (ABOVE GRADE)

DOMESTIC COLD WATER LINE

TEMPERED WATER LINE

FUNNEL FLOOR DRAIN

BACKFLOW PREVENTER FIRE EXTINGUISHER

TRAP, VENT & FLUSH

RAINWATER LEADER

FIRE EXTINGUISHER & CABINET

FLOOR DRAIN (T.V. AND F.)

CLEANOUT

FLOOR DRAIN

GATE VALVE CHECK VALVE

GLOBE VALVE

—п со

—⊚ FFD

VAUGHAN

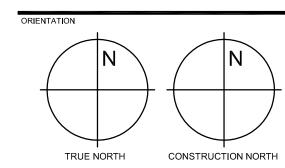
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PROFESSIONAL SEAL



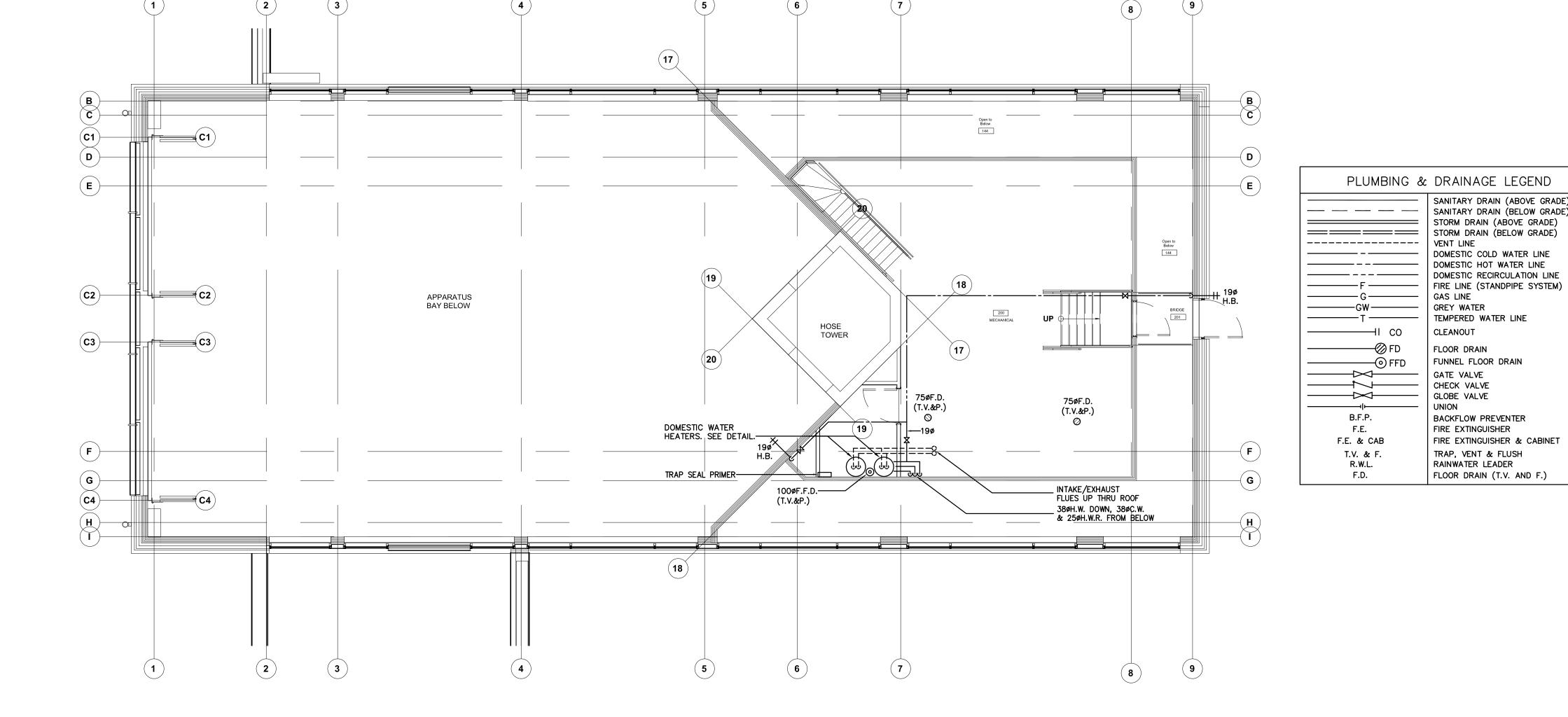
7405 East Danbro Crescent, 2nd Floor Mississauga, Ontario, L5N 6P8 Tel: 905 285 9900, Fax: 905 567 5246 Email : mail@jainconsultants.com

MEZZANINE PLAN - PLUMBING -



2021-11-24

TENDER



ISSUE OR REVISION

DATE2022-07-07

2023-09-06

2024-04-15

ISSUED FOR

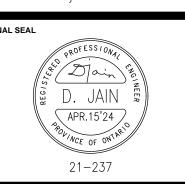
DESIGN DEVELOPMENT FOR COSTING

ISSUED FOR PERMIT

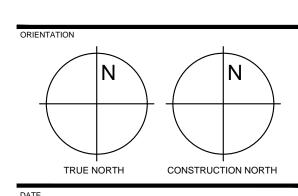
ISSUED FOR TENDER



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



SITE PLAN -HVAC



DATE 2022-06-24

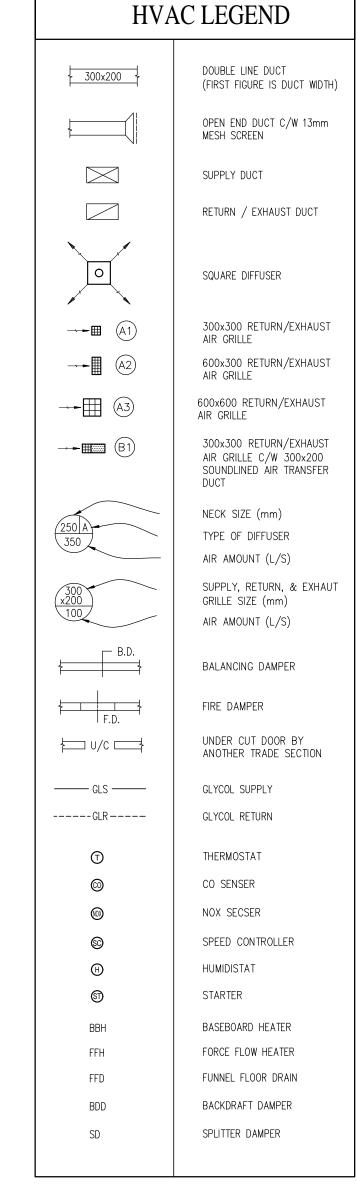
SCALE DRAWN BY

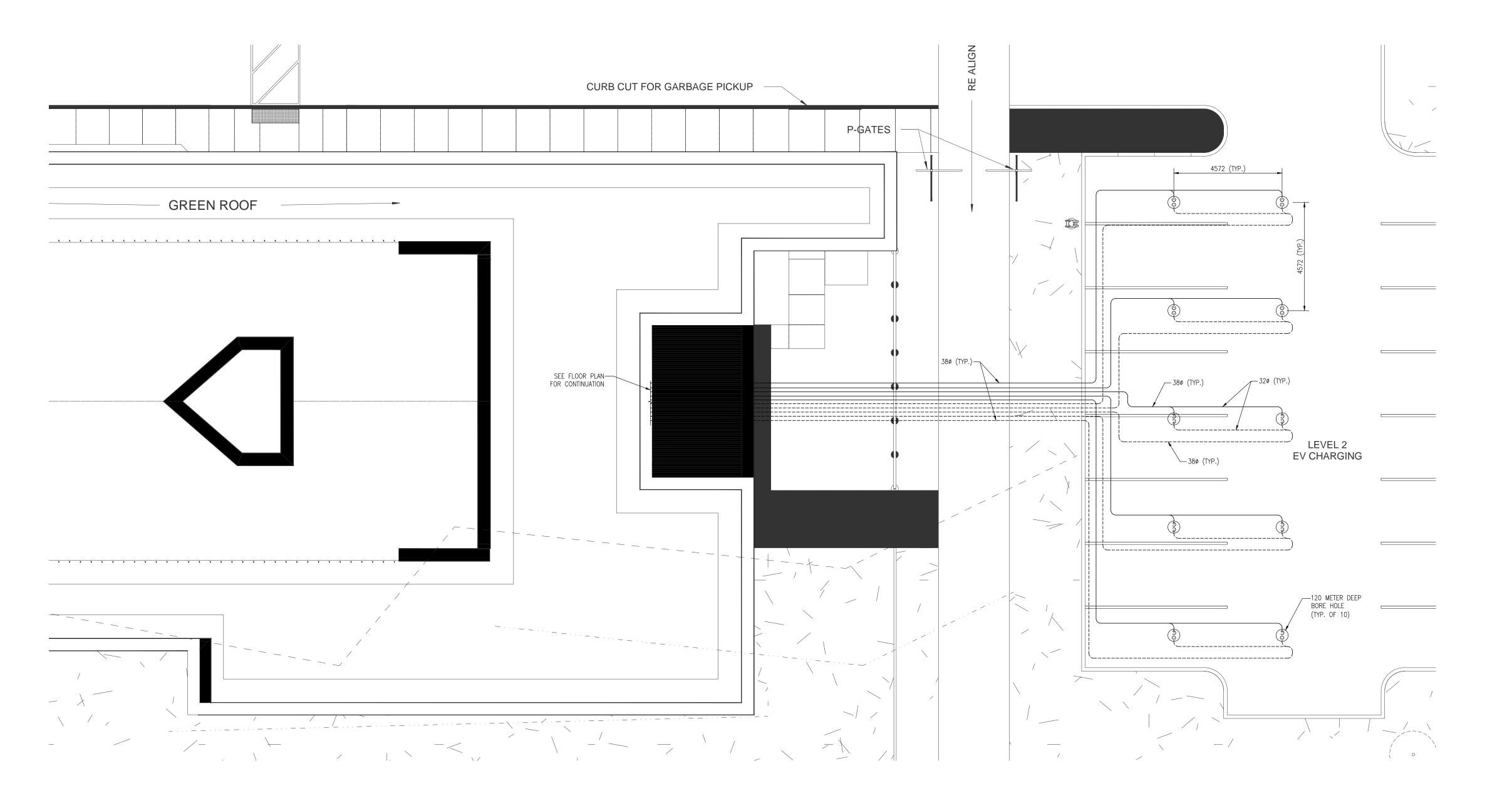
As indicated

21-237

PROJECT No.

M2.0



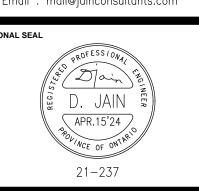


SITE PLAN - HVAC GEOTHERMAL SYSTEM LAYOUT
SCALE: 1:100

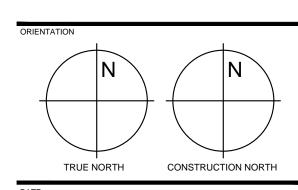
	ISSUE OR REVISION	
NO.	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING	2022-07-0
2	ISSUED FOR PERMIT	2023-09-0
3	ISSUED FOR TENDER	2024-04-



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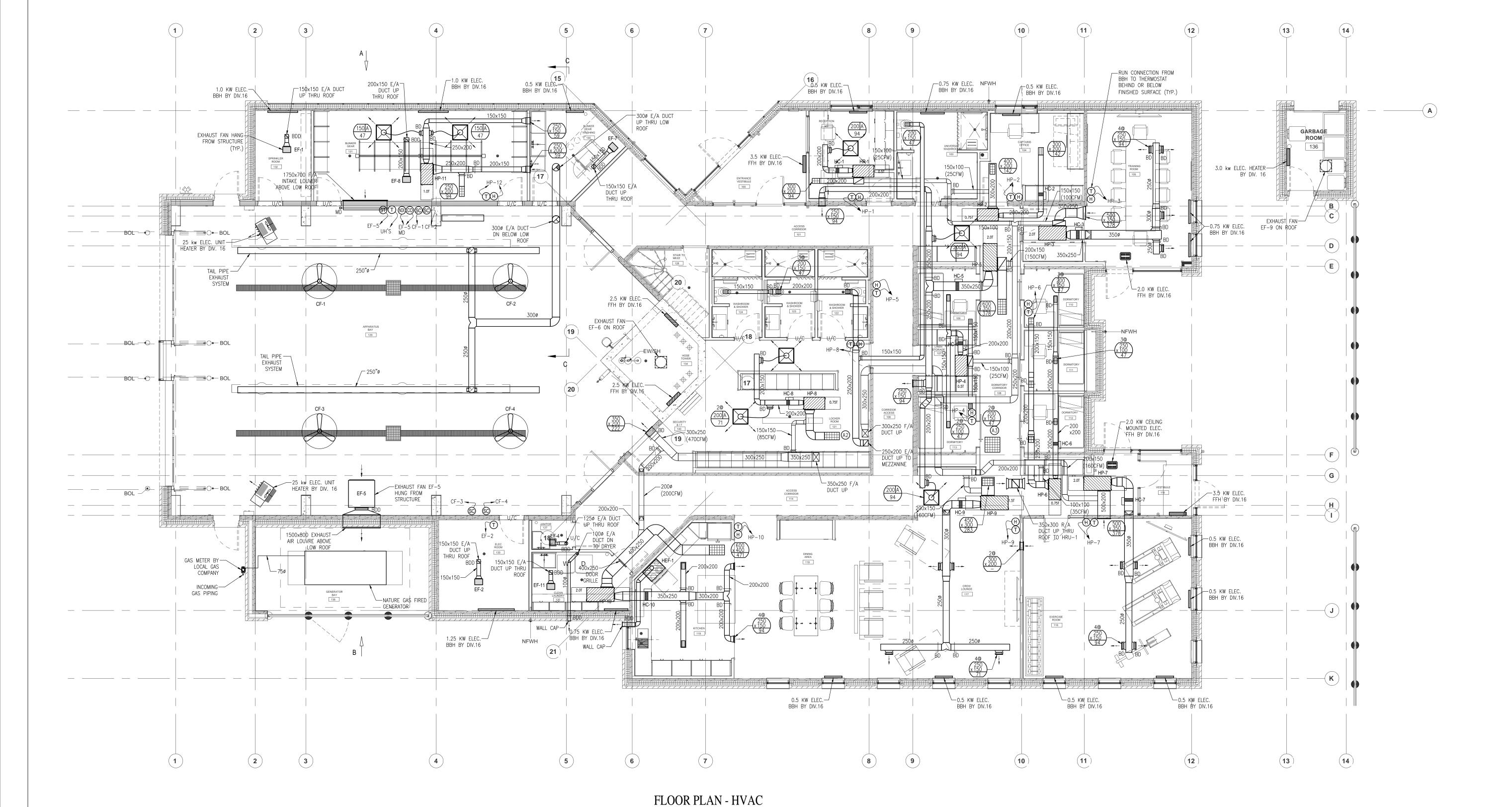


FLOOR PLAN -HVAC



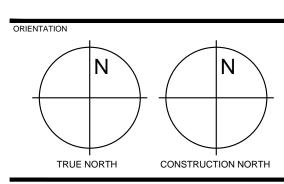
M2.1

2022-06-24 As indicated **TENDER** PROJECT No. 21-237



SCALE: 1:75

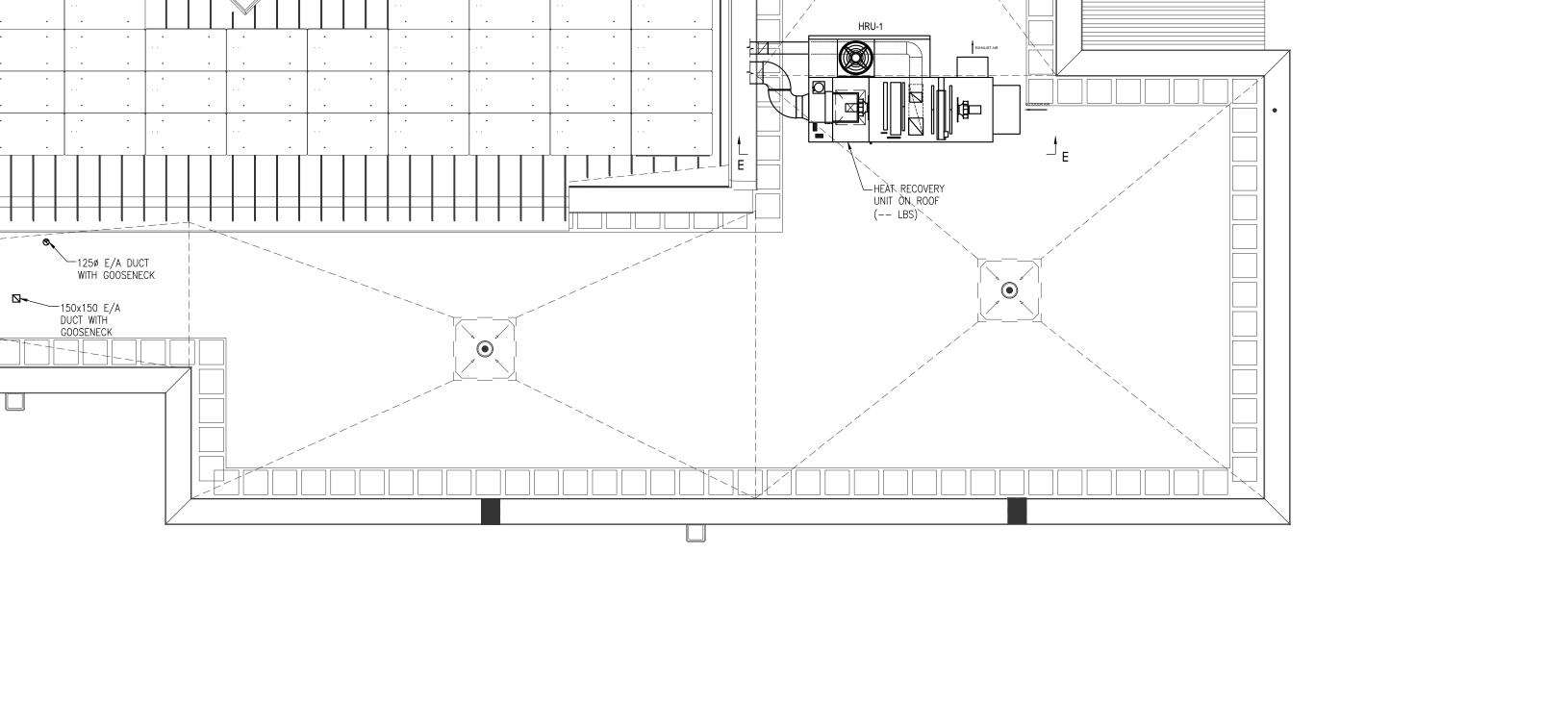
ROOF PLAN -HVAC



2022-06-24

As indicated TENDER

PROJECT No. 21-237



VRA

300¢ E/A DUCT W/
RAIN CAP AT TERMINATE
AND 1500 mm AFF

- - GOOSENECK

300¢ E/A DUCT DN

√150×150 E/A

DUCT WITH

GOOSENECK

ROOF PLAN - HVAC

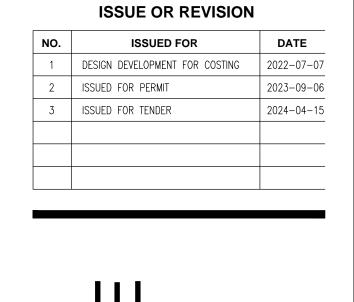
SCALE: 1:75

150x150 E/A DUCT WITH GOOSENECK

200x150 E/A

DUCT WITH

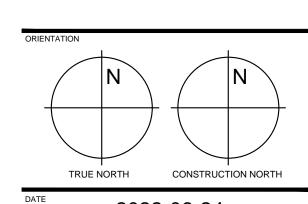
GOOSENECK







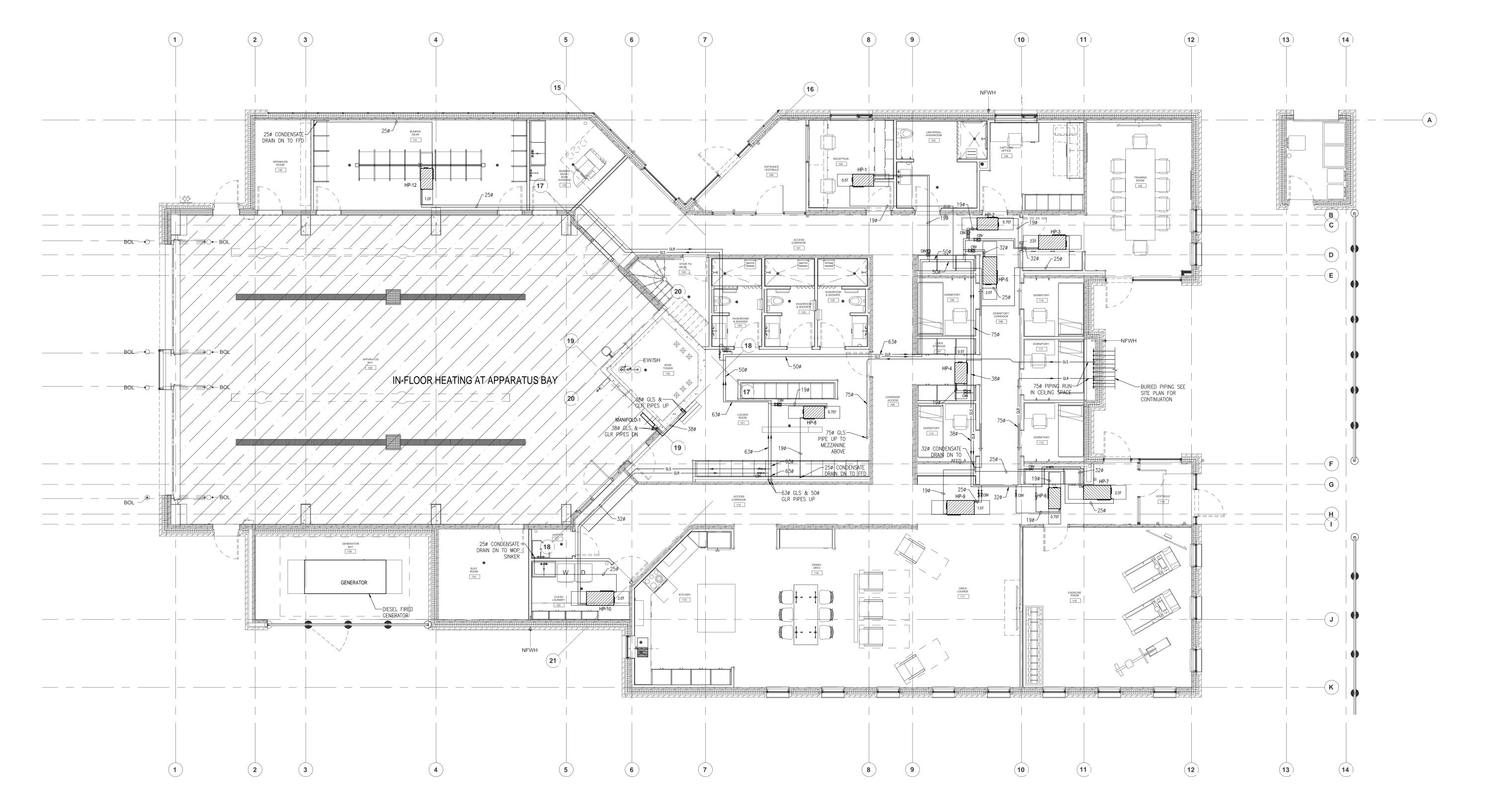
FLOOR PLAN -**HVAC PIPING**



TENDER

PROJECT No. 21-237

2022-06-24 As indicated



FLOOR PLAN - HVAC PIPING

SCALE: 1:75

ISSUE OR REVISION

DATE 2022-07-07

2023-09-06

2024-04-15

ISSUED FOR

DESIGN DEVELOPMENT FOR COSTING

ISSUED FOR PERMIT ISSUED FOR TENDER

MEZZ. MECH RM FLOOR PLAN & **SECTIONS - HVAC**

CONSTRUCTION NORTH

TRUE NORTH 2022-06-24

As indicated

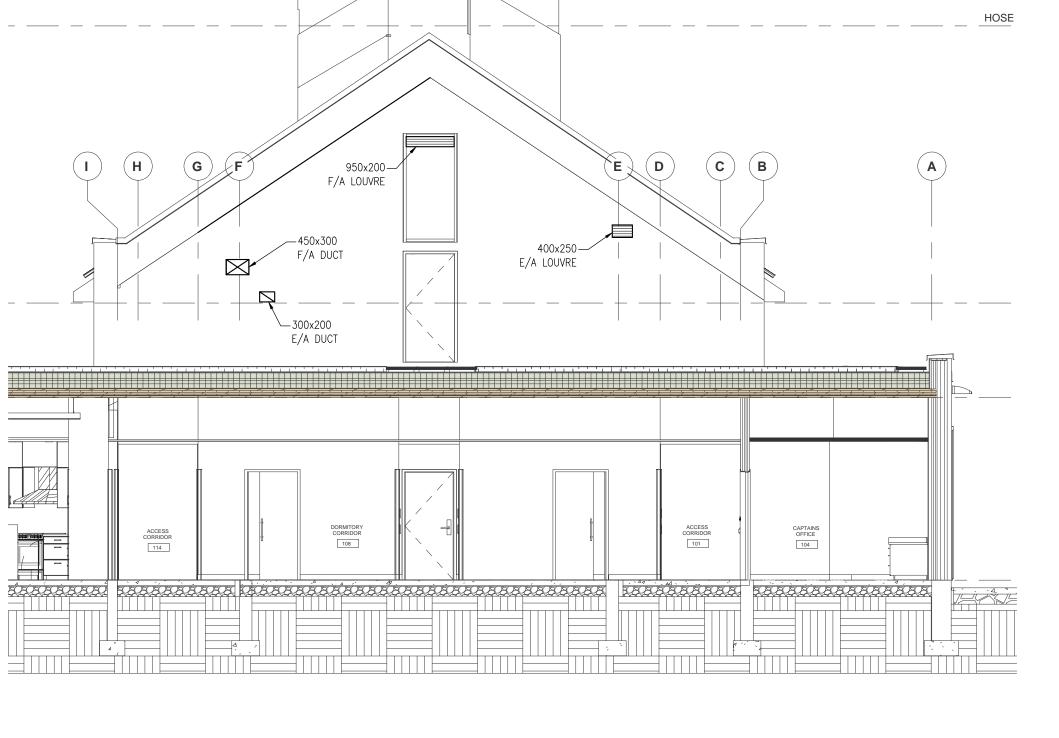
TENDER PROJECT No.

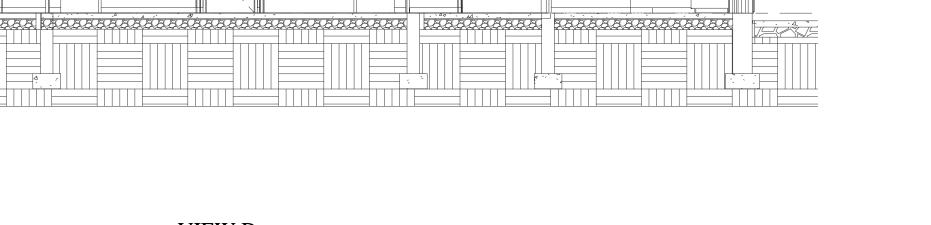
21-237

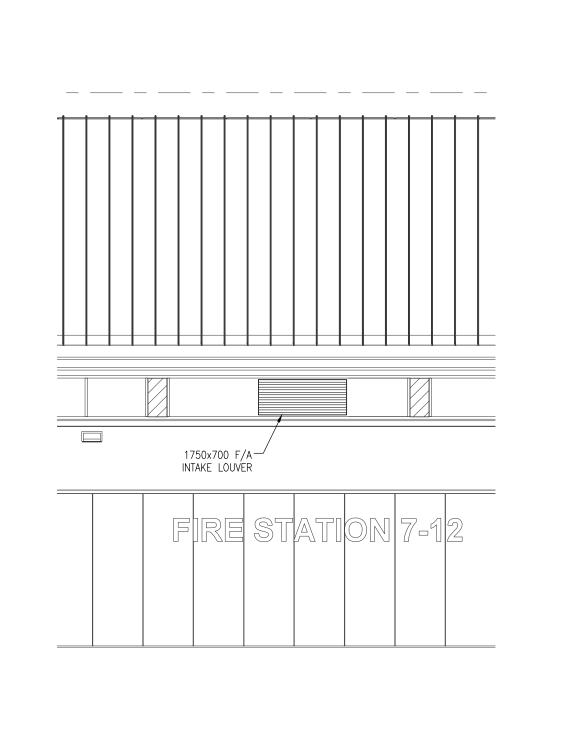
1500x800 EXHAUST— AIR LOUVRE

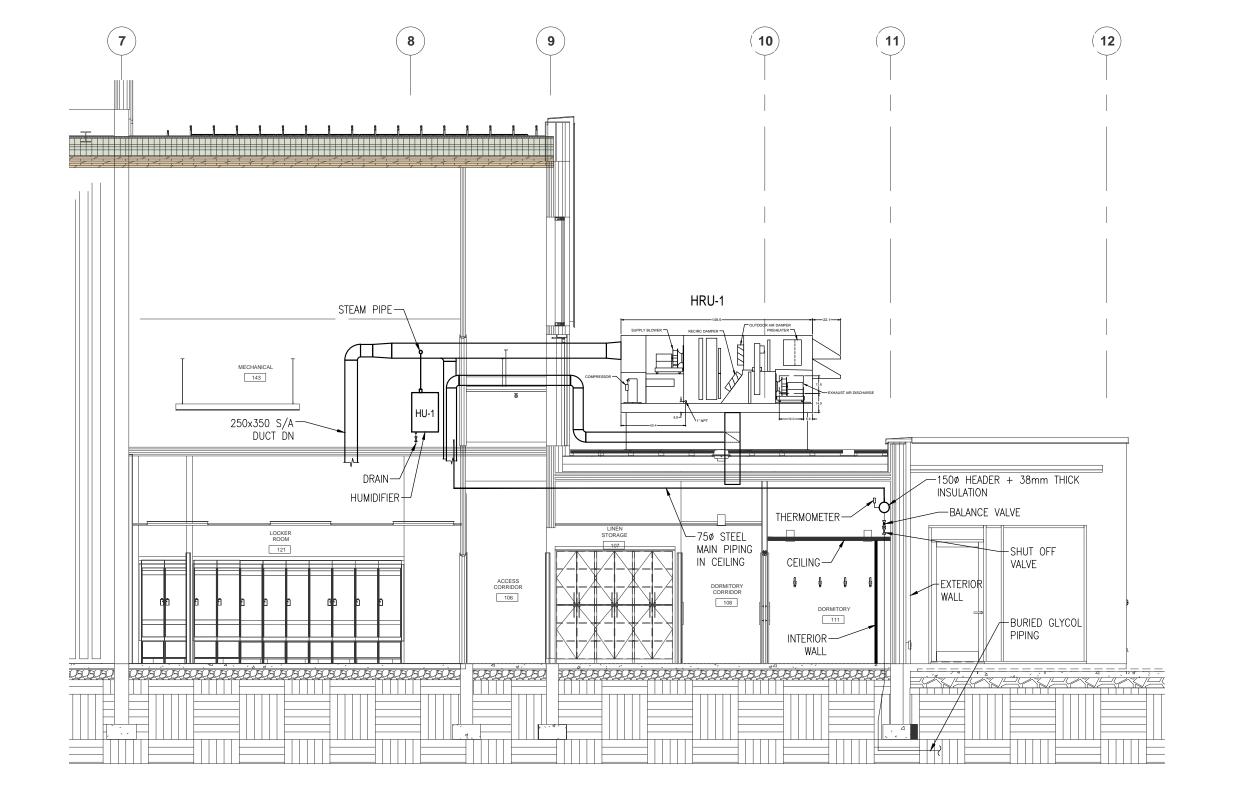
VIEW B

SCALE: 1:75









2.0 KW ELEC.— BBH BY DIV.16

R EXPANSION TANK
AX-80 HANG FROM

150x100— (15CFM)

MEZZANINE FLOOR PLAN - HVAC

─300x250 F/A \

DUCT DN W/ FD AT FLOOR

FD AT FLOOR

EXHASUT FAN HANG FROM STRUCTURE

63ø GLS & 50ø—

SCALE: 1:75

EXPANSION TANK-

EXTROL-30

32¢ CONDENSATE

DRAIN DN TO FLOOR DRAIN

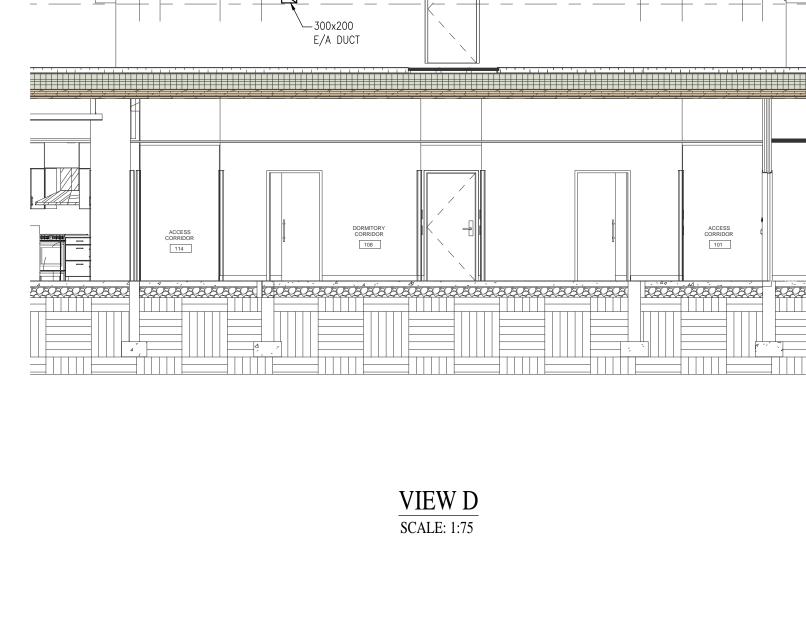
400x250 E/A LOUVRE AT HIGH LEVEL

4.0 KW ELEC. FFH BY DIV.16. WIRE TO START FROM EF-3

SECTION E - E SCALE: 1:75

VIEW A SCALE: 1:75

SECTION C - C SCALE: 1:75



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1	DESIGN DEVELOPMENT FOR COSTING	2022-07-07
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MISSISSAUGA, ONTARIO, L5N 6P8 TEL. 905 285 9900, FAX 905 567 5246 Email : mail@jainconsultants.com

GROUND SOURCE & IN FLOOR HEATING SYSTEM PIPING SCHEMATIC

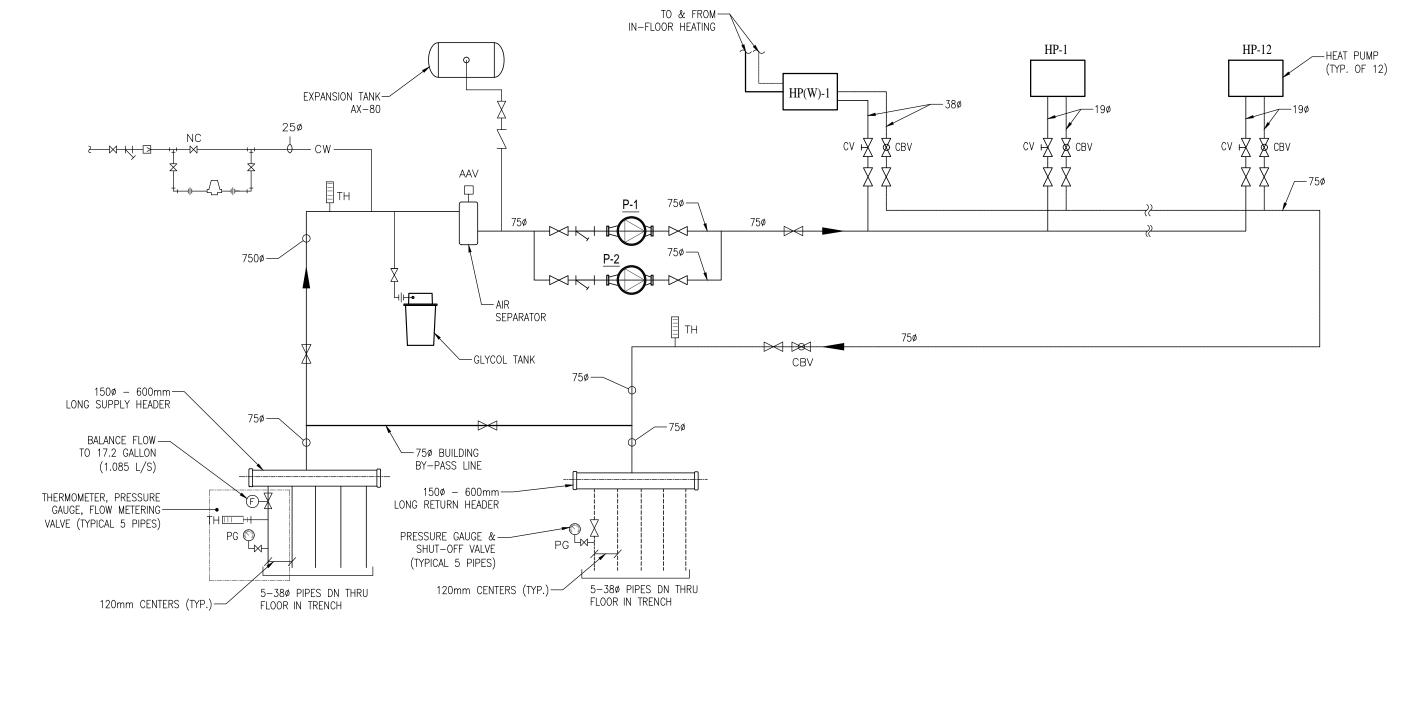
TRUE NORTH CONSTRUCTION NORTH

2022-06-24

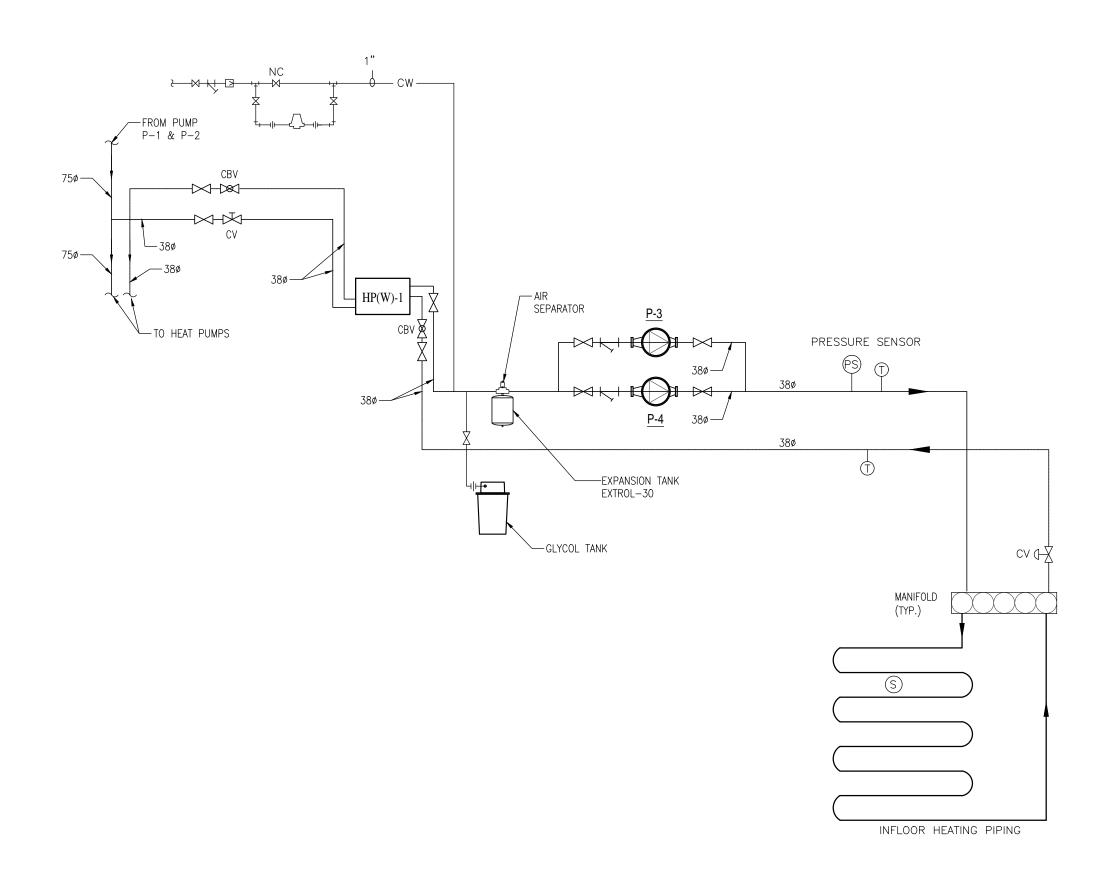
As indicated

TENDER PROJECT No.

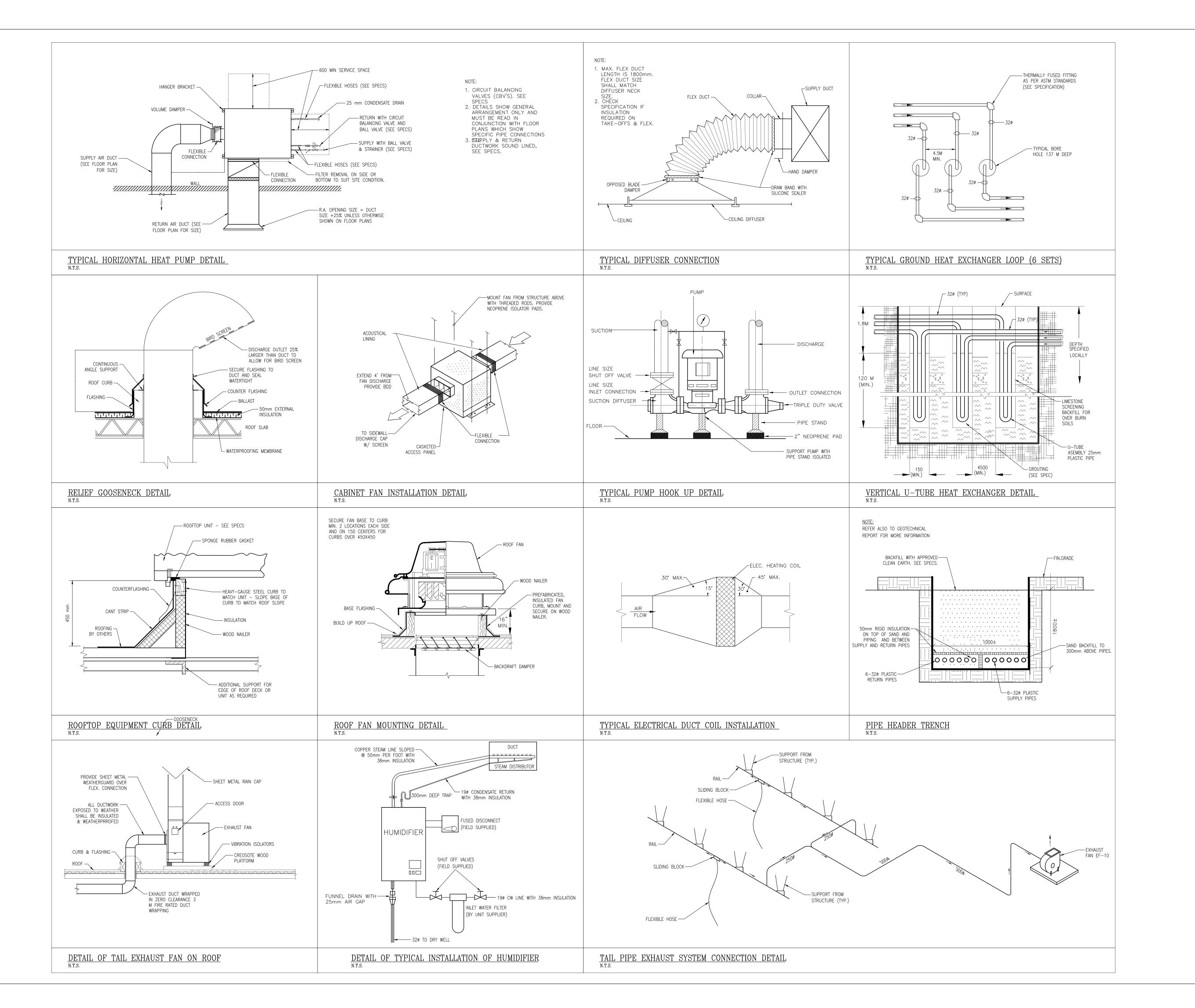
21-237



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



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



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ISSUED FOR

DESIGN DEVELOPMENT FOR COSTING

ISSUED FOR PERMIT

ISSUED FOR TENDER

DATE

2022-07-07

2023-09-06

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7405 EAST DANBRO CRESCENT

MISSISSAUGA, ONTARIO, L5N 6P8

TEL. 905 285 9900, FAX 905 567 5246

Email : mail@jainconsultants.com

CONSTRUCTION NORTH

2022-06-24

TENDER

21-237

M2.6

DETAILS

TRUE NORTH

As indicated

PROJECT No.

NOTE:			
WINTER:	EFT=40°F	SUMMER:	EFT=100°F

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

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

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

							Н	EAT F	RECOV	ERY	UNIT :	SCHED	ULE									
		AIR FLO	OW RATE FM)	E.S.P	COOLING	CAPACITY	HEATING CAPACITY			HEAT REC	OVERY			BLOWER (HP		ELECTRICAL HEATING	ELE	CTRICS		MAKE	APPROX.	
TAG	AREA SERVED	SUPPLY	EXHAUST	(inWC)	TOTAL (MBH)	SENSIBLE (MBH)	(MBH)	O/A EDB/EWB °F (SUM.)	'EWB LDB/LWB 'F (SUM.) EDB/EWB LDB/LWB 'F (WIN.)				SUPPLY	EXHAUST	(KW)	V/PH/HZ	MCA	MOPA	MODEL	WEIGHT (LBS)	REMARKS	
HRU-1	WHOLE BUILDING	1450	1450	0.5	73.4	45.8	20.5	88.1 / 74.4	78.0 / 66.1	75	-4 / -5.3	52.8 / 43.6	72	1.0	1.0	12.3	208/3/60	74.2	80	VALENT VXE-112-36B-5A-1-A1	3135	

- 1. PROVIDE FRESH AIR INTAKE HOOD & EXHAUST AIR DISCHARGE HOODS.
- 2. PROVIDE FRESH AIR MOTORIZED MODULATING DAMPERS.
- 3. PROVIDE VFD SPEED CONTROL THROUGH CO2 SENSORS FOR SUPPLY AND EXHAUST.
- 4. PROVIDE RETURN AIR FILTER SECTION.
- 5. PROVIDE FLEXIBLE DUCT CONNECTIONS.6. PROVIDE NON FUSED DISCONNECT SWITCH.

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

				HUMIDIF	FIER SC	HEDULE				
NO.	SYSTEM SERVED	MAKE & MODEL	DISCHARGE CAPACITY	WATER INLET	POWER	ELECTRICAL	L DATA		FULL WEIGHT	REMARKS
			LBS / HR	PSIG	KW	V/PH/HZ	MCA	MOCP	(LBS)	The limit will be a second of the li
HU-1	HRU-1	CONDAIR EL 50	50	30 - 80	18.7	280/3/60	51.9	70	150	

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

ISSUE OR REVISION

1000E OK KEVIOION								
NO.	ISSUED FOR	DATE						
1	DESIGN DEVELOPMENT FOR COSTING	2022-07						
2	ISSUED FOR PERMIT	2023-09						
3	ISSUED FOR TENDER	2024-04						

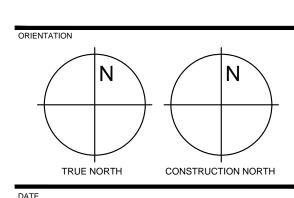
CITY OF VAUGHAN FIRE STATION 7-12

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

7405 EAST DANBRO CRESCENT MISSISSAUGA, ONTARIO, L5N 6P8 TEL. 905 285 9900, FAX 905 567 5246



DWG TITLE SCHEDULES



2022-06-24

Scale As indicated DRAWN BY

As indicated J

TENDER

PROJECT No. 21-237

M2.7

ISSUE OR REVISION

	1000E ON NEVIOION	
NO.	ISSUED FOR	DATE
1	DESIGN DEVELOPMENT FOR COSTING	2022-07-07
2	ISSUED FOR PERMIT	2023-09-06
3	ISSUED FOR TENDER	2024-04-15

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7405 EAST DANBRO CRESCENT MISSISSAUGA, ONTARIO, L5N 6P8 TEL. 905 285 9900, FAX 905 567 5246



SCHEDULES

1		N			N			
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	TRUE N	IORTH	С	CONSTRUCTION NORTH				

DRAWING No.

As indicated DWG STATUS:

TENDER

PROJECT No.

REVISION

21-237
M2.8

WATER TO WATER HEAT PUMP NO. HP(W)-1 MECHANICAL ROOM	MECH. RM 200	MCA 43	208	MAGNETIC	• •	•	•	
HEAT RECOVERY UNIT NO. HRU-1 ON ROOF	AT UNIT	MCA 74.2	208	INTEGRAL	• •	•	•	ELECTRICAL DIVISION WILL PROVIDE WEATHER PROOF DISCONNECT & WIRE TO UNIT
HEAT PUMP NO. HP-1 TO HP-12 CEILING SPACE	SEE HEAT PUMP SCHEDULES				•	•	•	
EXHAUST FAN NO. HEF-1 HOOD EXHAUST	KITCHEN	AMPS 2.0 1	120	INTEGRAL	•	•		
EXHAUST FAN NO. EF-1 SPRINKLER ROOM	SPRINKLER RM 132	WATTS 1	120	MAGNETIC	•	•	•	
EXHAUST FAN NO. EF-2 ELECTRICAL ROOM	ELEC. RM. 133	WATTS 47	120	MANUAL	•	•		
EXHAUST FAN NO. EF-3 MECH. ROOM 200	MECH. RM. 200	WATTS 108	120	MAGNETIC	•	•		INTERLOCK TO OPEN O.A. MOTORIZED DAMPER. INTERLOCK TO TURN ON THE FFH IN WINTER
EXHAUST FAN NO. EF-4 JANITOR	JANITOR 127	WATTS 50 1	120	MAGNETIC	•	•		
EXHAUST FAN NO. EF-5 APPARATUS BAY 129	GEAR. RM. 131	KW 2.0	208	MAGNETIC	•	•	•	INTERLOCK TO OPEN O.A. MOTORIZED DAMPER
EXHAUST FAN NO. EF-6 HOSE TOWER 134	HOSE TOWER 134	WATTS 187	120	MAGNETIC	•	•		
EXHAUST FAN NO. EF-7 BUNKER GEAR WASHING 130	GEAR WASHING 130	WATTS 1	120	MAGNETIC	•	•		
EXHAUST FAN NO. EF-8 BUNKER GEAR 131	BUNKER GEAR 131	WATTS 108	120	MAGNETIC	•	•		
EXHAUST FAN NO. EF-9 GARBAGE ROOM 136	GARBAGE RM 136	WATTS 52 1	120	MAGNETIC	•	•		
EXHAUST FAN NO. EF-10 APPARATUS ABY 129	APPARATUS 129	HP 4	208	VFD				INTERLOCK TO OPEN O.A. MOTORIZED DAMPER
EXHAUST FAN NO. EF-11 CLEAN LAUNDRY 120	LAUNDRY. 120	WATTS 47	120	MAGNETIC	•	•	•	
CEILING FAN NO. CF-1 TO CF-4 APPARATUS BAY 129	APPARATUS BAY 129	WATTS 157 1	120	MANUAL	•	•		
CIRCULATING PUMP NO. P-1 MECH. ROOM 200	MECH. RM 200	HP 3	208	MAGNETIC	• •	•	•	VFD
CIRCULATING PUMP NO. P-2 MECH. ROOM 200	MECH. RM 200	HP 3	208	MAGNETIC	• •	•	•	VFD
IN-FLOOR HAETING PUMP NO. P-3 MECH. ROOM 200	MECH. RM 200	HP 1	208	MAGNETIC	•	•		
IN-FLOOR HAETING PUMP NO. P-4 MECH. ROOM 200	MECH. RM 200	HP 1	208	MAGNETIC	•	•		
HUMIDIFIER NO. HU-1 MECH. ROOM 200	MECH. RM 200	MCA 51.9	208	MAGNETIC	• •	•	•	
ELECTRICAL DUCT HEATING COIL SEE DUCT COIL SCHEDULES								

- IN MECHANICAL ROOMS OR SERVICE ROOM STARTERS SHALL BE ON WALLS ADJACENT

5. ROOF EQUIPMENT THAT START FROM REMOTE PUSH BUTTON OR SELECTOR SWITCH SHALL HAVE THEIR STARTERS LOCATED IN THE NEAREST MECHANICAL ROOM TO THE EQUIPMENT.

- IN FINISHED ROOM STARTERS SHALL BE AT THE LIGHT SWITCH.

4. STARTER LOCATION:

TO EQUIPMENT;

REMARKS

ABBREVIATION:

S.S. - SELECTOR SWITCH

H/O/A - HAND-OFF-AUTOMATIC

BMS - BUILDING MANAGEMENT SYSTEM

P.B. - PUSH BUTTON

P.L. - PILOT LIGHT

MECHANICAL EQUIPMENT STARTER AND ELECTRICAL DATA SCHEDULE

ELECTRICAL DATA

AMPS

STARTER

LOCATION

EQUIPMENT & LABEL

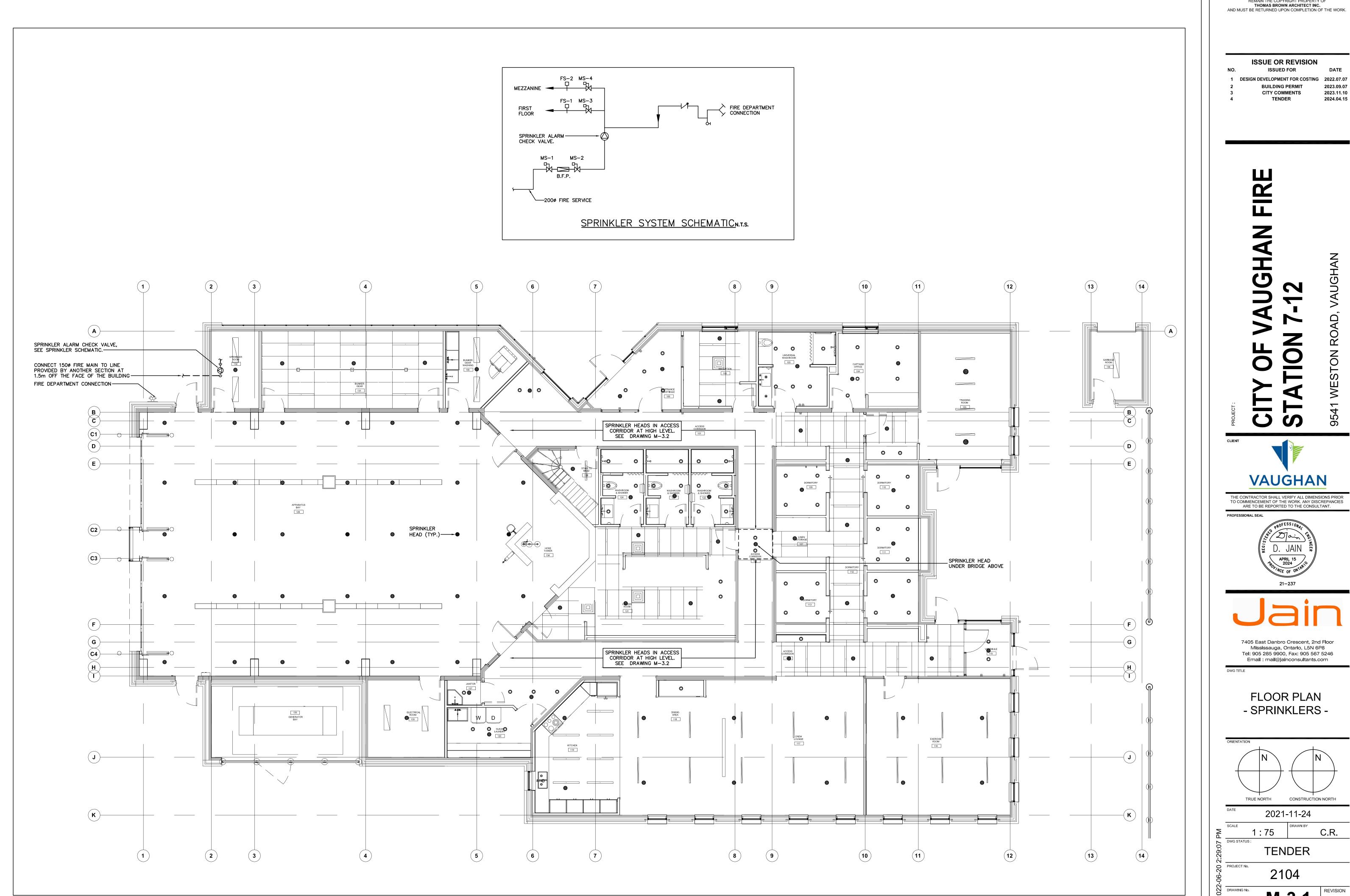
STARTER SCHEDULE NOTES:

1. SEE "WIRING & MOTORS" IN MECHANICAL GENERAL REQUIREMENTS FOR

FULL DETAILS OF STARTERS, FUSES, OVERLOAD HEATERS, ETC.

2. LABEL ON STARTERS FOR EQUIPMENT, FANS ETC., SHALL BE AS NOTED IN THEIR SCHEDULES. SEE SPECIFICATIONS FOR DETAIL.

3. INTERLOCKS, FREEZE & SAFETY CONTROL WIRING SHALL BE BY MECHANICAL TRADE. SEE SPECIFICATIONS FOR DETAIL.



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2023.09.07 2023.11.10 2024.04.15

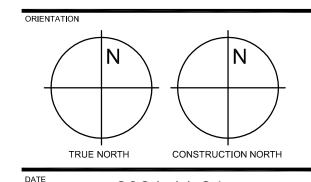
VAUGHAN

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D. JAIN

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

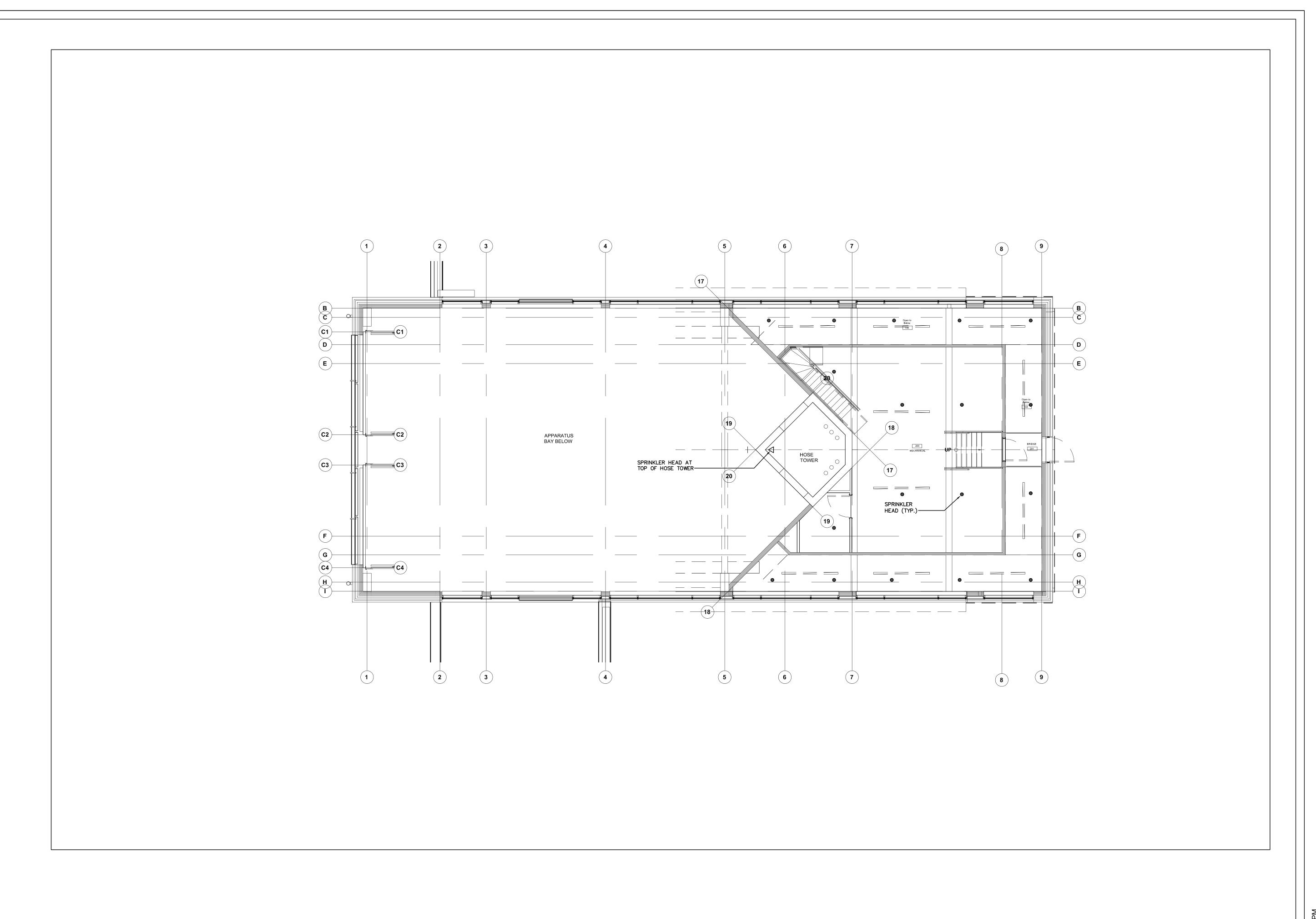
FLOOR PLAN - SPRINKLERS -



2021-11-24 C.R.

TENDER

M-3.1 | 04



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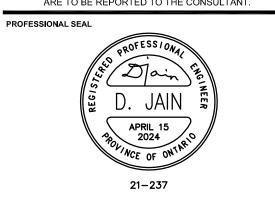
TENDER

1 DESIGN DEVELOPMENT FOR COSTING 2022.07.07 **BUILDING PERMIT** CITY COMMENTS

2023.11.10 2024.04.15

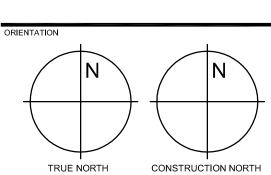
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7405 East Danbro Crescent, 2nd Floor MIssIssauga, Ontarlo, L5N 6P8 Tel: 905 285 9900, Fax: 905 567 5246 Email : mail@jainconsultants.com

MEZZANINE PLAN - SPRINKLERS -



2021-11-24 1:75

TENDER

M-3.2 REVISION 04

LEGEND LED LIGHT FIXTURE - LETTER DENOTES TYPE O_D LED, CEILING FIXTURE - LETTER DENOTES TYPE LED, LIGHT FIXTURE 24/7 'ON' NIGHT LIGHT FIXTURE

LIGHT STANDARD

LED WALL FIXTURE — LETTER DENOTES TYPE EXIT LIGHT FIXTURE WALL OR CEILING MOUNTED, PICTOGRAM TYPE - SHADED AREA

■ EMERGENCY LIGHTING TYPE 1 (SINGLE HEAD)& TYPE 2. (DOUBLE HEADS), LED, 24V, 7W PER HEAD. BAGHELLI# BTMR-MR16-LED-7W/HEAD-24V OR APPROVED EQUAL EXCEPT FOR APPARATUS BAY & EMS BAY AREAS. BAGHELLI# SEA SERIES-MR16-LED-7W/HEAD-WEATHERPROOF-NEMA 4X OR APPROVED EQUAL SUITABLE FOR WET LOCATIONS SHALL BE PROVIDED FOR APPARATUS BAY & EMS BAY AREAS. EMERGENCY LIGHTING TYPE 1 (SINGLE HEAD)& TYPE 2. (DOUBLE HEADS), LED, 24V, 7W

WP PER HEAD, WEATHERPROOF. BAGHELLI# SEA SERIES-MR16-LED-7W/HEAD-WEATHERPROOF-NEMA 4X OR APPROVED EQUAL SUITABLE FOR WET LOCATIONS.

EMERGENCY LIGHTING BATTERY UNIT, 24V, (BAGHELLI#NOVA-NV-24-WATTAGE AS SHOWN ON DRAWINGS OR APPROVED EQUAL), SUITABLE FOR 120V INPUT VOLTAGE UNLESS NOTED

STANDARD 15A 120V 1P DUPLEX RECEPTACLE. 'TR' DENOTES TAMPER RESISTANT TYPE.

STANDARD DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER. 'TR' DENOTES TAMPER

TR STANDARD DUPLEX RECEPTABLE WITH SE. STANDARD DUPLEX RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT.

STANDARD DUPLEX RECEPTACLE 15A/20A (SPLIT FEED).

STANDARD DUPLEX RECEPTACLE (SPLIT FEED) MOUNTED ABOVE COUNTER. G.F.I DUPLEX RECEPTACLE. 'TR' DENOTES TAMPER RESISTANT TYPE.

G.F.I DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER. 'TR' DENOTES TAMPER RESISTANT

15A QUAD. RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT. 'TR' DENOTES TAMPER RESISTANT.

G.F.I QUAD. RECEPTACLE MOUNTED ABOVE COUNTER. 'TR' DENOTES TAMPER RESISTANT.

CEILING MOUNTED DUPLEX RECEPTACLE

TROTT TEACHER TO THE TEACHER ON 20A CIRCUIT. TR' DENOTES TAMPER RESISTANT.

L5-20R TWIST LOCK RECEPTACLE BLACK IN COLOUR WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT FOR FEEDING POWER TO UPS OF I.T. RACK.

L5-20RA, 20A RECEPTACLE BLACK IN COLOUR WITH SEPARATE NEUTRAL AND GROUND T WIRE PER CIRCUIT FOR FEEDING POWER TO UPS OF I.T. RACK.

120V, 15A CEILING MOUNTED EXTENSION CORD REEL C/W DUPLEX RECEPTACLE AND OUTLET BOX (HUBBELL# HBL45123R + HBL5252GY) C/W SUPPORTING SYSTEM. CO-ORDINATE ON SITE FOR EXACT LOCATION/ MORE INFORMATION AND PROCEED

TAMPER RESISTANT USB CHARGER DUPLEX RECEPTACLE, 125V, 15A, 2-POLE,3W, 5-15R (HUBBELL# USB 15X2 OR ATTOW HART (COOPER# TR7745)

2= 3-POLE, 250V RECEPTACLE 14-20R FOR UPS RACK 3-POLE, 250V RECEPTACLE 14-30R FOR DRYER

(5) 3-POLE, 250V RECEPTACLE 14-50R FOR RANGE SPECIAL OUTLET AS NOTED

\$ SINGLE POLE LIGHT SWITCH UNLESS NOTED OTHERWISE. \$k KEYED SWITCH TO OPEN WASHROOM DOOR IN CASE OF EMERGENCY

\$3 THREE WAY LIGHT SWITCH \$4 FOUR WAY LIGHT SWITCH

1-BUTTON LOW VOLTAGE DLM TYPE LIGHT SWITCH (TYP.) UNLESS NOTED OTHERWISE.

4-BUTTON LOW VOLTAGE DLM TYPE LIGHT SWITCH (TYP.)

ELECTRIC HEATING UNIT, NO. DENOTES TYPE

DOOR OPERATOR PUSH BUTTON UNLESS NOTED OTHERWISE

REQUEST TO EXIT DEVICE

PUSH TO LOCK BUTTON

PANELBOARD MOTOR STARTER. LETTER F DENOTES FLUSH MTD, P= PILOT LIGHT,

S = SURFACE MTD. EF - 3 = EQUIPMENT CONTROLLED BY STARTER

♠ WP DISCONNECT SWITCH - WP DENOTES WEATHERPROOF

COMBINATION MOTOR STARTER AND DISCONNECT

MOTOR OUTLET AS NOTED

MOTOR & DISCONNECT SWITCH TO SUIT

RECESSED P.A. SPEAKER CEILING MOUNTED IN CASE OF DRYWALL & T-BAR CEILINGS, SURFACE MOUNTED IN EXPOSED CEILINGS. REFER SCHEMATIC DIAGRAMS FOR MORE

RECESSED P.A. SPEAKER RECESSED, WALL MOUNTED. REFER SCHEMATIC DIAGRAMS FOR

SURFACE MOUNTED P.A. SPEAKER. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION. EXTERIOR TYPE P.A. SPEAKER, WALL MOUNTED. REFER SCHEMATIC DIAGRAMS FOR MORE

PA CONSOLE/MICROPHONE. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.

MICROPHONE OUTLET

WATT STOPPER LMDX-100 OCCUPANCY/VACANCY SENSOR, DUAL TECH WALL CORNER MOUNT/CEILING MOUNT C/W ROOM CONTROLLERS AS REQUIRED. LIGHTING CONTROL TO BE MANUAL—ON, AUTO—OFF.

WATT STOPPER DW-100-120 DUAL TECHNOLOGY WALLSWITCH SENSOR LINE VOLTAGE (AUTO-ON, AUTO-OFF). WATT STOPPER LMUC-100 OCCUPANCY SENSOR, ULTRA SONIC CEILING

MOUNT C/W ROOM CONTROLLERS AS REQUIRED. WALL MOUNTED DUAL TECHNOLOGY TWO RELAY LINE VOLTAGE OCCUPANCY SENSOR. WATT STOPPER DW-200-120 (MANUAL-ON,

AUTO-OFF) WATT STOPPER LMDC-100 OCCUPANCY/VACANCY SENSOR, DUAL TECH CEILING MOUNT, 360 DEGREES C/W ROOM CONTROLLERS AS

REQUIRED. LIGHTING CONTROL TO BE MANUAL-ON, AUTO-OFF. WATT STOPPER LMDX-100 VACANCY SENSOR, DUAL TECH WALL CORNER MOUNT/CEILING MOUNT C/W ROOM CONTROLLERS AS

WATT STOPPER LMDC-100 OCCUPANCY/VACANCY SENSOR, DUAL TECH CEILING MOUNT, 360 DEGREES C/W ROOM CONTROLLERS AS REQUIRED. LIGHTING CONTROL TO BE AUTO-ON, AUTO-OFF.

WATT STOPPER LMLS-500 OPEN LOOP DAYLIGHT SENSOR.

BATTERY OPERATED CLOCK (12" DIA, SEMI FLUSH, BATTERY OPERATED, BLACK/RED 24 HOUR DIAL AND GREY CASE WITH SYMMETY HANDS. EDWARDS MODEL# 1885A SERIES OR SIMPLEX.

(AV) CEILING MOUNTED A/V OUTLET FOR PROJECTOR VGA MONITOR OUTLET C/W 21 mmC. TO CEILING MOUNTED AV OUTLET. CABLE TV OUTLET C/W 21MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR.

COUNTDOWN CLOCK-FIRE STATION ALERT SYSTEM

LEGEND (CONTD.)

RECESSED FLOOR BOX C/W COVER AND DEVICES AS PER LAYOUT DWGS. WIREMOLD RFB-SS SERIES, FINISH TO ARCHITECT SELECTION.

EMERGENCY PUSH BUTTON (CAMDEN 5/8" MUSHROOM, STAINLESS STEEL FACEPLATE, PUSH/PULL, 'PRESS FOR ASSISTANCE' CM-450R/12) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WEC10). THE EMERGENCY PUSH BUTTON SHALL BE MOUNTED ON A SINGLE GANG BOX. REFER FLOOR PLAN DWGS. FOR MORE INFORMATION.

SINGLE GANG LED ANNUNCIATOR C/W SOUNDER, 'ASSISTANCE REQUESTED' (CAMDEN: CM-AF501SO) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WEC10). REFER FLOOR PLAN DWGS. FOR MORE INFORMATION.

SINGLE GANG DOME LIGHT WITH SOUNDER. 'ASSISTANCE REQUIRED' (CAMDEN: CM-AF140SO) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WEC10). REFER FLOOR PLAN DWGS. FOR MORE INFORMATION.

WG ☐ FIRE ALARM MANUAL STATION C/W PLASTIC COVER WITH LOCAL HORN — LETTERS WG DENOTES C/W WIREGUARD

AUTOMATIC FIRE DETECTOR RATE OF RISE 135 DEG. F. UNLESS NOTED OTHERWISE - NUMBER DENOTES ZONE, LETTER G DENOTES GUARD AUTOMATIC FIRE DETECTOR — FIXED TEMPERATURE AS NOTED FIRE ALARM HORN. 'S' DENOTES C/W STROBE LIGHT,

WG - WIRE GUARD ■ PHOTO ELECTRIC SMOKE DETECTOR

■== ALARM DUCT TYPE SMOKE DETECTOR

120V AC 3-IN-1 LED STRUDE SMIONE CHARGE SEALED BATTERY BACK-UP (KIDDE#P4010ACLEDSCOCA). 120V AC 3-IN-1 LED STROBE SMOKE ALARM/CO (THREE IN ONE) C/W STROBE & 10

E.O.L. //\ END-OF-LINE RESISTOR

FIRE ALARM HORN. 'S' DENOTES C/W STROBE LIGHT.

S FIRE ALARM STROBE.

FS FLOW SWITCH-SPRINKLER SYSTEM

SV SUPERVISORY ZONE SWITCH-SPRINKLER SYSTEM

120V CARBON MONOXIDE DETECTOR C/W BATTERY BACK-UP AND AUXILIARY CONTACTS TO INITIATE A DEDICATED SUPERVISORY ZÓNE IN FIRE ALARM SYSTEM.

TELEPHONE/DATA OUTLET C/W JACK & CABLE & 21mm EMT CONDUIT TO I.T. ROOM AT MEZZANINE LEVEL. REFER SPECIFICATIONS FOR MORE INFORMATION.

DATA OUTLET C/W JACK & CABLE & 21mm EMT CONDUIT TO I.T. ROOM AT MEZZANINE LEVEL. NO. DENOTES NUMBER OF DATA DROPS. REFER SPECIFICATIONS FOR MORE INFORMATION.

TELEPHONE OUTLET C/W JACK & CABLE & 21mm EMT CONDUIT TO I.T. ROOM AT MEZZANINE LEVEL. REFER SPECIFICATIONS FOR MORE

CEILING MOUNTED WIRELESS ACCESS POINT CONSISTING OF A DATA DROP C/W 27MM CONDUIT & WIRING TO I.T. ROOM AT MEZZANINE LEVEL. REFER SPECIFICATIONS FOR MORE INFORMATION.

ES DOOR ELECTRIC STRIKE

KO KEY OVERRIDE SWITCH TO OVERRIDE ELECTRIC STRIKE

KP SECURITY KEY PAD C/W 16MM CONDUIT SECURITY PANEL IN I.T. ROOM.

CARD READER C/W 16MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR UNLESS

CCTV CAMERA C/W 27mm CONDUIT UPTO I.T. ROOM

CCTV MONITOR C/W 27mm CONDUIT UPTO UPTO DVR PANEL/CCTV RACK

SECURITY SYSTEM- MOTION SENSOR, WALL MOUNTED C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR

SECURITY SYSTEM- MOTION SENSOR/GLASS BREAK COMBO, 360 DEGREE CEILING MOUNTED, WALL MOUNTED C/W 27MM CONDUIT UPTO SECURITY PANEL

DH DOOR HOLD OPEN DEVICE C/W CONDUIT AND WIRING SECURITY SYSTEM DOOR CONTACT C/W 16MM CONDUIT UPTO SECURITY PANEL VIA A

JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE. RDC SECURITY SYSTEM ROOF HATCH DOOR CONTACT C/W 27MM CONDUIT UPTO CABLE TRAY IN

SECURITY SYSTEM OVERHEAD DOOR CONTACT C/W 16MM CONDUIT UPTO SECURITY PANEL

VIA A JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE. PUSH BUTTON FOR DOOR BELL (STI STOPPER STATION SERIES, NO TEXT, SS2XYO, UNIVERSAL STOPPER LABEL SHELL, MOMENTARY (ILLUMINATED), ENGLISH, C/W ACCESSORIES

120V DOOR BELL (EDWARDS# STRAP MOUNTED BELL/BUZZER, MODEL-762, 590 SERIES TRANSFORMER, #593 MOUNTING PLATES FOR 590 SERIES TRANSFORMERS, TRANSFORMER MOUNTING PLATES, SINGLE AND MULTIPLE GANG UTILITY BOXES & ALL ACCESSORIES REQUIRED FOR MOUNTING & FULLY OPERATIONAL SYSTEM.

ARMING BUTTON C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR

SECURITY SYSTEM BUZZER C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR

THERMOSTA ACKNOWLEDGE BUTTON-FIRE ALERT SYSTEM.

PHOTOCEL

COUNTDOWN CLOCK-FIRE ALERT SYSTEM.

REQUEST TO EXIT PUSH BUTTON/BAR: SHALL RELEASE ELECTRIC STRIKE OF RESPECTIVE

MAINTAINED TWIST RELEASE RED COLORED MUSHROOM KEYLESS TYPE EMERGENCY PUSH BUTTON FOR SHUT DOWN OF POWER FOR GAS SOLENOID VALVE IN CASE OF EMERGENCY. PROVIDE SUITABLE LABEL ON THE PUSH BUTTON.

HJ WALL MOUNTED J-HOOK IN CEILING

53 MM(2") CONDUIT SLEEVE THRU WALL ABOVE CEILING

SC SPEED CONTROLLER OF CEILING FAN

HWT DENOTES DOMESTIC HOT WATER TANK DENOTES RANGE HOOD DENOTES RANGE DW DENOTES DISHWASHER

MW DENOTES MICROWAVE MD DENOTES MOTORIZED DAMPER PT DENOTES PIPE HEAT TRACING

WG DENOTES WIRE GUARD FACP DENOTES FIRE ALARM CONTROL PANEL DENOTES RECESSED LED TYPE OF FIRE ALARM ANNUNCIATOR PANEL C/W PASSIVE FAAP

DENOTES RECESSED FIRE ALARM MONITORING PANEL. PROVIDE A DEDICATED PHONE LINE FOR THIS MONITORING PANEL AND PROVIDE 1-21MM CONDUIT FROM THIS PANEL TO FACP.

DO DENOTES DOOR OPERATOR FGE DENOTES FRIDGE

FZR DENOTES FREEZER

EFC DENOTES POWER FOR ELECTRONIC FAUCET/PLUMBING FIXTURES FSA DENOTES FIRE STATION ALERT SYSTEM

LEGEND (CONTD.)

ATS DENOTES AUTOMATIC TRANSFER SWITCH

H.D. DENOTES HEAT DETECTOR S.D. DENOTES SMOKE DETECTOR P.S. DENOTES PULL STATION CUH DENOTES CABINET UNIT HEATER

UH DENOTES UNIT HEATER

WSH DENOTES WASHER DR DENOTES DRYER WP DENOTES WEATHER PROOF. VVT DENOTES VARIABLE VOLUME TEMPERATURE HD DENOTES HAND DRYER

CUH DENOTES CABINET UNIT HEATER A/V DENOTES AUDIO/VISUAL SYSTEM VC DENOTES LOCAL VOLUME CONTROL OF P.A. SPEAKERS

M&V DENOTES METERING & VERIFICATION SYSTEM O/H DOOR DENOTES OVERHEAD DOOR

TRF. DENOTES TRANSFORMER FC-1 DENOTES FAN COIL#1 (TYP.)

CF-1 DENOTES CEILING FAN#1 (TYP.)

FSA DENOTES FIRE STATION ALERT SYSTEM LVMSP DENOTES LV MASTER SWITCH PANEL

DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #1

DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #2 AND CONTROLLED BY SWITCH #1 1A-3.R1 DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #3 AND CONTROLLED VIA

1A-5/7.R2(2P) DENOTES EQUIPMENT FED FROM PANEL '1A' AND 2-POLE BREAKER #5/7 AND CONTROLLED VIA 2-POLE RELAY-R2.

(E101) DETAIL 1 ON DRAWING E101

NOTE PERTAINING TO SPECIFIC ITEM OR AREA

NOTES FOR LEGEND:

THE WEATHERPROOF RECEPTACLES SHALL BE PROVIDED WITH COVER PLATES SUITABLE FOR WET LOCATIONS WHETHER OR NOT A PLUG IS INSERTED INTO THE RECEPTACLE (IN-USE COVER PLATE) AND MARKED # EXTRA DUTY# AS PER RULE 26-702(2) OF OESC.

'T' INDICATED BESIDE SYMBOL OF A DUPLEX RECEPTACLE DENOTES THAT THE RECEPTACLE SHALL BE T-SLOT ON 20A CCT.

'C' INDICATED BESIDE SYMBOL OF A DEVICE DENOTES THAT THE DEVICE SHALL BE

'TR' INDICATED BESIDE SYMBOL OF A DUPLEX RECEPTACLE DENOTES THAT THE RECEPTACLE SHALL BE TAMPER RESISTANT TYPE OF RECEPTACLE. SLASH LINE SHOWN ON SYMBOL OF A DEVICE (RECEPTACLE, DATA OUTLET,

TELEPHONE OUTLET OR DATA/PHONE OUTLET) MEANS THAT THE DEVICE/OUTLET IS

HEATER SCHEDULE

TO BE LOCATED ABOVE COUNTER.

DESCRIPTION 500W 120V BASEBOARD HEATER C/W REMOTE DIMPLEX CAT. # AF6F205 STELPRO, OUELLETT

750W 120V BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AF6F307 STELPRO, OUELLETT 1250W 120V BASEBOARD HEATER C/W

REMOTE THERMOSTAT DIMPLEX CAT. # AF6F512 STELPRO, OUELLETT

2000W, 208V, 1-PH. BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AF6F820 STELPRO, OUELLETT 2250W 208V, 1-PH. SURFACE MOUNTED FLOW

HEATER C/W REMOTE THERMOSTAT.

DIMPLEX CAT. # RFI830D31-RFIP8CW STELPRO, OUELLETT 2250W 208V, 1-PH. SEMI RECESSED FORCED FLOW HEATER TO BE MOUNTED IN T-BAR CEILING C/W MOUNTING ACCESSORIES, BRACKETS, SUPPORTS, HARDWARE & REMOTE THERMOSTAT.

DIMPLEX CAT. # RFI830D31 STELPRO, OUELLETT 3000W 208V, 1-PH. SEMI RECESSED FORCED FLOW HEATER C/W REMOTE THERMOSTAT. DIMPLEX CAT. # RFI840D31

STELPRO, OUELLETT 6000W 208V, 1-PH. SURFACE MOUNTED FORCED FLOW HEATER C/W REMOTE DIMPLEX CAT. # RFF86021-RFFP8CW

STELPRO, OUELLETT 1000W 120V BASEBOARD HEATER C/W BUILT-IN THERMOSTAT CHROMALOX CAT. # AF6F410 STELPRO, OUELLETT

3000W 208V, 1-PH. WALL SURFACE MOUNTED FORCED FLOW HEATER C/W REMOTE THERMOSTAT. DIMPLEX CAT. # RFI840D31-RFP8DW STELPRO, OUELLETT

25.0KW 208V, 3-PH. ELECTRICAL INDUSTRIAL UNIT HEATER, SUSPENDED FROM CEILING TYPE (WAREHOUSE TYPE) C/W REMOTE THERMOSTAT & COMPLETE MOUNTING ACCESSORIES AS REQUIRED. OUELLETT# OAS25038+MOUNTING **ACCESSORIES** STELPRO, DIMPLEX

25.0KW 208V, 3-PH. ELECTRICAL INDUSTRIAL UNIT HEATER, SUSPENDED FROM CEILING TYPE (WAREHOUSE TYPE) C/W REMOTE THERMOSTAT & COMPLETE MOUNTING ACCESSORIES AS REQUIRED. OUELLETT# OAS25038+MOUNTING **ACCESSORIES**

STELPRO, DIMPLEX

COORDINATE WITH MECHANICAL DRAWINGS/MECHANICAL TRADE FOR EXACT LOCATION OF REMOTE THERMOSTATS PRIOR TO

LUMINAIRE SCHEDULE

- L2 120V, 4" DIA LED DOWN LIGHT FIXTURE, 7.0W, 801 LUMENS. 3000K. DIMMING DRIVER, WET LOCATION C/W MOUNTING ACCESSORIES AS REQUIRED. ORBIT# RIM-R-30K-7W-60D-WH-NC-120V-WET SENSO ARTEMIS, COOPER, ACUITY
- L2A 6" HIGH, 3" WIDE, 1" DEEP WALL RECESSED LED (RED LIGHT EMITTING LIGHT FIXTURE), 3.0W, 352 LUMENS, 120V DRIVER. FINISH TO ARCHITECT'S
- SOLERA# DOMI-RED LIGHT EMISSION-3WLED-120V-R-CPL-120V AXISSTEPLIGHT, COOPER, ACUITY L2B 120V, 2" DIA LED DOWN LIGHT FIXTURE, 6.7W, 516 LUMENS, 3000K, DIMMING DRIVER C/W MOUNTING ACCESSORIES AS REQUIRED.

HEW# 2DR-L5-830-DIM-OW-OF-CS-120V

SENSO ARTEMIS, COOPER, ACUITY L2C 120V, 4" DIA LED DOWN LIGHT FIXTURE, 5.0W, 501 LUMENS, 3000K DIMMING DRIVER, WET LOCATION C/W MOUNTING ACCESSORIES AS REQUIRED. ORBIT# RIM-R-30K-5W-60D-WH-NC-120V-WET SENSÖ ARTEMIS-WET, COOPER, ACUITY

L4 LED TAPE LIGHT FIXTURE (LENGTH TO COVER ENTIRE LENGTH AS SHOWN ON DRAWINGS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF APPLICATION AND PROCEED ACCORDINGLY), 1.5W/FT., 117 LUMENS/FT., 3000K, C/W CHANNELS, POWER SUPPLIES AS REQUIRED, TRANSFORMERS AS REQUIRED, 120V DRIVERS AS REQUIRED. SUITABLE FOR UNDER CABINET MOUNTING. C/W ALL MOUNTING ACCESSORIES AS REQUIRED. CRI: 90+, FINISH TO ARCHITECT'S SELECTION DIODE# D1-24V-BLBSC1-30-016-CEC-120V-LENGTH TO COVER ENTIRE LENGTH AS PER DRAWINGS/ARCHITECTURAL DRAWINGS-FINISH TO ARCHITECT'S SELECTION—COMPLETE MOUNTING ACCESSORIES-CHANNELS-TRANSFORMERS-TRANSFORMERS-120V DRIVERS-90+ CRI

COOPER, LUMINII-KENDO, JUNO L5 4' LONG LED PENDANT LIGHT FIXTURE (SUSPENDED BY AIRCRAFT CABLES. BOTTOM OF LIGHT FIXTURE TO BE @ 3.1M), 15.9W, 2233 LUMENS., 3000K, 120V DRIVER, FINISH TO ARCHITECT'S SELECTION. C/W LOUVERS- CRI: 90+. JESCO# LINSL-E-48-3000K-LOU-120V-LOUVERS-FINISH TO ARCHITECT'S

COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES L5A 4' LONG LED PENDANT LIGHT FIXTURE (SUSPENDED BY AIRCRAFT CABLES. BOTTOM OF LIGHT FIXTURE TO BE @ 3.1M), 28.3W, 3812 LUMENS., 3000K, 120V DRIVER, FINISH TO ARCHITECT'S SELECTION. C/W LOUVERS- CRI: 90+. JESCO# LINSL-D-B-48-3000K-LOU-120V-LOUVERS-FINISH TO ARCHITECT'S COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES

L6 NOT USED L7 4' LONG, SURFACE (CEILING/WALL) MOUNTED LED LIGHT FIXTURE, 31.9W, 4445 LUMENS, 120V DRIVER, 4000K, HEW# 39-4-L52 (L43)-840-A-DIM-120V

SIGNIFY, COOPER, ACUITY L7A 4' LONG, SURFACE MOUNTED LED LIGHT FIXTURE, 33.1W, 4604 LUMENS, 120V DRIVER, 4000K, HEW# 39-4-L52 (L45)-840-A-DIM-120V SIGNIFY, COOPER, ACUITY

L7B 4' LONG, SURFACE (MOUNTED ON UNISTRUT SUSPENSION SYSTEM) MOUNTED LED LIGHT FIXTURE, 16.5W, 2191 LUMENS, 120V DRIVER, 4000K, JESCO# STEP-E-LINSL-D-48-4000K-OP-120V

COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES

L8A 4' LONG LED RECESSED LIGHT FIXTURE IN T-BAR CEILING, 15.9W, 2233 LUMENS., C/W LOUVERS, 3000K, 120V DRIVER, FINISH TO ARCHITECT'S JESCO# LINSL-RECESSED IN T-BAR CEILING-E-48-LOU-3000K-T GRID KIT-120V-CRI: 90+ FINISH TO ARCHITECT'S SELECTION COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES

L8B 4' LONG LED PENDANT LIGHT FIXTURE (SUSPENDED BY AIRCRAFT CABLES. BOTTOM OF LIGHT FIXTURE TO BE @ 5.0M A.F.F.), 24.8W, 4156 LUMENS., 3000K, 120V DRIVER, LOUVERS, FINISH TO ARCHITECT'S SELECTION. CRI: JESCO# LINSL-A-48-3000K-LOU-120V-LENS-FINISH TO ARCHITECT'S

L8C SAME AS TYPE-L8A EXCEPT THAT LIGHT FIXTURE L8C TO BE RECESSED IN DRYWALL CEILING. L8D SAME AS TYPE-L8A EXCEPT THAT LIGHT FIXTURE SHALL BE 4000K. L9 8' LONG LED SURFACE MOUNTED LIGHT FIXTURE, 128.8W, 8055 LUMENS,

4000K, 120 DRIVER. LIGHT FIXTURES TO BE MOUNTED SO AS TO HAVE A

COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES

SOLERA# ZRR-PM-66-8-SYM-4K-XX-PC-WET-120V COOPER, LUMENWERX LIGHTING, HOLOPHANE L10 NOT USED L11 LED WALL MOUNTED FLOOD LIGHT TO BACKLIGHT WINDOWS, 35W, 126 LUMENS/WATT, IP66, 120V DRIVER, FINISH TO ARCHITECT'S SELECTION MOUNTING OPTION TO SUIT APPLICATION, JUNCTION BOXES, COMPLETE

FOR EXACT MOUNTING HEIGHT FOR OPTIMUM RESULTS), 3000K. NIS# NV-F1-85-16L-35W-30K-TM/KM (COORDINATE ON SITE FOR MOUNTING OPTION TO SUIT)-120V-JUNCTION BOXES-MOUNTING ACCESSORIES-FINISH TO ARCHITECT'S SELECTION SIGNIFY, COOPER, ACUITY MA 960MM HIGH, LANTERN TYPE LED LIGHTING STANDARD (56.0W, 3522 LUMENS) C/W 3.47M HIGH STEEL STRAIGHT POLE ON 760MM ABOVE GRADE CONCRETE BASE (TOTAL HEIGHT OF THE LIGHT STANDARD TO BE 5.49M ABOVE GRADE), SINGLE HEAD C/W 208V DRIVER. 3000K. POLE AND LUMINAIRE SHALL HAVE

MOUNTING ACCESSORIES2. MOUNTED @ 11.0M A.F.F. (COORDINATE ON SITE

FINISH AS PER ARCHITECT SELECTION. NLS# DMR-1-T3-M0-32L-53-30K8-HSS-R0-AM-PT. B0-U0-G COOPER, LUMEC RA856 & BALTIMORE POLE, ACUITY PUCL3 SERIES MB 960MM HIGH, LANTERN TYPE LED LIGHTING STANDARD (56.0W, 3539 LUMENS) C/W 3.47M HIGH STEEL STRAIGHT POLE ON 760MM ABOVE GRADE CONCRETE BASE (TOTAL HEIGHT OF THE LIGHT STANDARD TO BE 5.49M ABOVE GRADE). SINGLE HEAD C/W 208V DRIVER. 3000K. POLE AND LUMINAIRE SHALL HAVE FINISH AS PER ARCHITECT SELECTION. NLS# DMR-1-T4-MO-32L-53-30K8-HSS-RO-AM-PT. B0-U0-G1

W1 LED WALL PACK (9.4W, 1064 LUMENS), MOUNTED @ 3.1M, C/W 120V DRIVER, 3000K, FINISH TO ARCHITECT'S SELECTION. SOLERA# SRBK-4-D-30K-U0. B1-U0-G0 COOPER, SENSO-LETO11 WM, LUMINIS

COOPER, LUMEC RA856 & BALTIMORE POLE, ACUITY PUCL3 SERIES

LSP 1.0M LONG, LED LINEAR LED LIGHT FIXTURE, IP65 (TO BE MOUNTED AS RECESSED IN CHANNEL C/W LENS), 3000K, FOR LIGHTING METAL FACADE, 4.2W/FT., 512 LUMENS/FT. LENGTH & QUANTITIES TO SUIT SITE CONDITIONS (VERIFY ON SITE FOR EXACT EXTENT OF APPLICATION). FINISH TO ARCHITECT'S SELECTION.120V DRIVER, MOUNTED @ 3.2M A.F.F. DIODE# D1-24V-VL5-30K-W016-D1-CPCHB-16-120V. TOTAL LENGTH AS PFR SITE CODITIONS COOPER, LUMINII-KENDO, JUNO

LSP1 SAME AS LIGHT FIXTURE TYPE-LSP EXCEPT THAT THIS LIGHT FIXTURE SHALL

BE LOCATED IN A COVE AND SHALL BE C/W LENS TO DIRECT LIGHT

TOWARDS WALL & SPREADING LIGHT TO THE WALKWAY.

INSTALLED BY ELECTRICAL CONTRACTOR.

POST-DISASTER BUILDING REQUIREMENTS.

1. ALL LAMPS SHALL BE OF SINGLE MANUFACTURER, UNLESS NOTED OTHERWISE.

2. ALL LINEAR & LED LAMPS SHALL HAVE COLOR TEMPERATURE AS INDICATED 3. THE MANUFACTURER SPECIFIED AS EQUAL TO ENSURE COMPLIANCE WITH BASE LUMINAIRE SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE BROUGHT UP DURING

4. COORDINATE ON SITE WITH ARCHITECT AND CONSULTING ENGINEER FOR MOUNTING HEIGHT OF ALL SURFACE MOUNTED LUMINAIRES PRIOR TO ROUGH IN. 5. ALL THE LIGHT FIXTURES SHOWN IN LUMINAIRE SCHEDULES SHALL BE SUPPLIED &

6. ELECTRICAL CONTRACTOR SHALL PROVIDE BACKBOXES/JUNCTION BOXES WHEREVER

7. IN CASE OF PENDANT LIGHT FIXTURES, THE LIGHT FIXTURES SHALL BE SUSPENDED

BY AIRCRAFT CABLES. THESE SHOULD BE SEISMICALLY RESTRAINT TO MEET THE

REQUIRED FOR THE INSTALLATION OF THE LIGHT FIXTURES.

GENERAL NOTES:

- . ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR ALL SCOPE OF WORK OF ELECTRICAL CONTRACTOR WHICH ARE RELATED TO OTHER TRADES.
- 2. PROVIDE EACH ITEM MENTIONED OR INDICATED OF QUALITY AND SUBJECT TO QUALIFICATIONS NOTED; PERFORM ACCORDING TO CONDITIONS STATED EACH OPERATIONS STATED, EACH OPERATION PRESCRIBED; AND PROVIDE THEREFORE ALL LABOR, MATERIAL, EQUIPMENT,
- INCIDENTALS AND SERVICES REQUIRED TO COMPLETE THE INSTALLATION. 3. EXAMINE THE SITE, EXISTING EQUIPMENT AND THE LOCAL CONDITIONS AFFECTING THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY FOR ANY OBVIOUS CONSIDERATIONS OVERLOOKED.
 - 4. SCHEDULE AND COORDINATE ALL WORK WITH OTHER TRADES.
- 5. CONTRACTOR SHALL BALANCE CIRCUIT LOADS AS CLOSELY AS POSSIBLE
- 6. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF EQUIPMENT & DEVICES PRIOR TO ROUGH IN.
- 7. ALL ELECTRICAL INSTALLATIONS SHALL BE RECESSED/CONCEALED INSTALLATIONS WHEREVER POSSIBLE; OTHERWISE PROVIDE WIREMOLD STEEL SURFACE MOUNTED RACEWAY C/W SURFACE
- 8. PROVIDE FIRE ALARM VERIFICATION REPORT & CERTIFICATE FOR THE COMPLETE FIRE ALARM SYSTEM AS REQUIRED BY AUTHORITIES.
- 9. CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS (LIGHTING AS WELL AS POWER) AND SHALL MAINTAIN VOLTAGE DROP WITHIN PERMISSIBLE LIMITS AS PER OESC REQUIREMENTS AND PROVIDE PROPER WIRE SIZES ACCORDINGLY PRIOR TO COMMENCING OF ROUGH-IN INSTALLATION. THE VOLTAGE DROP CALCULATIONS SHALL BE
- 10. IN CASE OF NON-ACCESSIBLE CEILING, ALL WIRING UPTO ELECTRICAL DEVICES SHALL BE DONE IN CONDUITS TO SUIT APPLICATION TO FACILITATE MAINTENANCE.
- 11. ELECTRICAL CONTRACTOR SHALL MAKE SUITABLE ARRANGEMENTS TO MAKE ALL THE ELECTRICAL DEVICES AS ACCESSIBLE TO FACILITATE MAINTENANCE. NO ELECTRICAL DEVICE SHALL BE INSTALLED IN SUCH A WAY THAT IT IS UN-ACCESSIBLE AT ANY STAGE FOR MAINTENANCE. CO-ORDINATE ON SITE AND PROCEED ACCORDINGLY.
- 12. ROOM CONTROLLERS OF LMRC-200 SERIES FOR LIGHTING CONTROL HAVE CONNECTIONS AT ITS BACK. ACCORDINGLY, THIS TYPE OF ROOM CONTROLLERS ARE REQUIRED TO BE MOUNTED ON A BACKBOX. THE DEPTH OF THIS BACKBOX IS REQUIRED TO BE 2.5" DEEP. THEREFORE THE DEPTH OF THE RECESSED BACKBOXES (FOR MOUNTING ROOM
- CONTROLLERS) WHEREVER APPLICABLE SHALL BE SELECTED TO SUIT APPLICATION. 13. PROVIDE LABELING OF ELECTRICAL POWER OUTLETS AND RECEPTACLES THROUGHOUT THE ENTIRE BUILDING TO PROVIDE IDENTIFICATION OF ELECTRICAL CIRCUITS. THE LABEL SHALL
- INDICATE CCT.# FED TO THE OUTLET/RECEPTACLE. 14. PROVIDE CONDUITS AND BACK BOXES FOR LIGHTING CONTROL DEVICES TO SUIT
- APPLICATIONS AND AS PER MANUFACTURER'S RECOMMENDATIONS. 15. ALL LIGHTING CONTROL WIRING IN CASE OF CAT CABLING SYSTEM, SHALL BE PROVIDED IN CONDUITS EXCEPT FOR T-BAR CEILINGS APPLICATIONS WHERE FT6 CABLES (PLENUM RATED)
- 16. ALL EMPTY CONDUITS SHALL BE PROVIDED C/W PULL WIRES.
- 17. ALL THE MI CABLES SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER RECOMMENDATIONS, OESC AND TO THE SATISFACTION OF THE LOCAL ESA INSPECTOR FOR FULLY OPERATIONAL SYSTEM. PROVIDE ALL NECESSARY MATERIAL & LABOR FOR COMPLETE OPERATIONAL SYSTEM TO SUIT APPLICATIONS.
- 18. ALL FIRE ALARM CABLES FROM FACP TO ALL FIRE ALARM LCD/LED REMOTE ANNUNCIATOR PANELS SHALL HAVE FIRE RATING OF NOT LESS THAN ONE HOUR.
- 19. PROVIDE SINGLE HEAD J-HOOKS OF 2" DIA. (ON EITHER SIDE OF CORRIDOR AND WITHIN EACH ROOM/AREA) SUSPENDED FROM SLAB IN THE CEILING SPACE OF ALL CORRIDORS AND ROOMS/AREAS UNDER SCOPE OF WORK. PROVIDE J-HOOKS EVERY 2 FEET AND SUSPENDED BELOW ANY PIPING, MECHANICAL DUCTS ETC. NO RUN OF LOOSE CABLE FROM CONDUIT STAB UP SHALL EXCEED 10 FEET TO FIRST J-HOOK. PROVIDE QUANTITY OF J-HOOKS TO SUIT FOR FULL COVERAGE THROUGHOUT FLOOR AREAS OF THE BUILDING AT
- 20. PROVIDE PANEL DIRECTORIES FOR ALL THE NEW PANELS INDICATING ALL CIRCUITS FED FROM THE RESPECTIVE PANELS. NAME THE UNUSED BREAKERS AS 'SPARE'.

21. PROVIDE FIRE STOPPING AROUND CONDUITS AND CABLES WHEN PASSING THROUGH FIRE RATED WALLS OR FLOORS.

22. PROVIDE #10 AWG CONDUCTORS FOR LIGHTING CIRCUITS IN CASE THE TOTAL CIRCUIT LENGTH EXCEEDS 80' FROM THE RESPECTIVE PANEL UNLESS SPECIFIED OTHERWISE. 23. VERIFY ON SITE FOR EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN

LIGHTING DRAWINGS FOR GROUPING PURPOSES ONLY. CO-ORDINATE WITH SYSTEM SUPPLIER

COVERAGE AND TO AVOID MAL FUNCTIONING OF THE OCCUPANCY SENSORS. 25. ALL CONDUITS ON FLAT ROOF SHALL RUN AS CONCEALED.

BUILDING REQUIREMENTS.

24. LOCATION OF THE OCCUPANCY SENSORS FOR LIGHTING CONTROLS HAVE BEEN SHOWN ON

FOR EXACT LOCATION OF THE OCCUPANCY SENSORS SO AS TO ACHIEVE OPTIMUM

26. ALL COMMUNICATION WIRING SHALL BE TERMINATED IN I.T. RACK LOCATED IN I.T. ROOM AT

27. IN CASE OF PENDANT LIGHT FIXTURES, THE LIGHT FIXTURES SHALL BE SUSPENDED BY AIRCRAFT CABLES. THESE SHOULD BE SEISMICALLY RESTRAINT TO MEET THE POST-DISASTER

CLIENT



TO COMMENCEMENT OF THE WORK, ANY DISCREPANCIES

ARE TO BE REPORTED TO THE CONSULTANT.



LEGEND & DETAILS

D. JAIN

TRUE NORTH

N.T.S.

CONSTRUCTION NORTH

DWG STATUS

PROJECT No

ISSUE OR REVISION

02.13.24

04.15.24

1 DESIGN DEVELOPMENT FOR COSTING

2 ISSUED FOR PERMI

3 ISSUED FOR REVIEW

4 ISSUED FOR TENDER

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

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

FINISHED GRADE

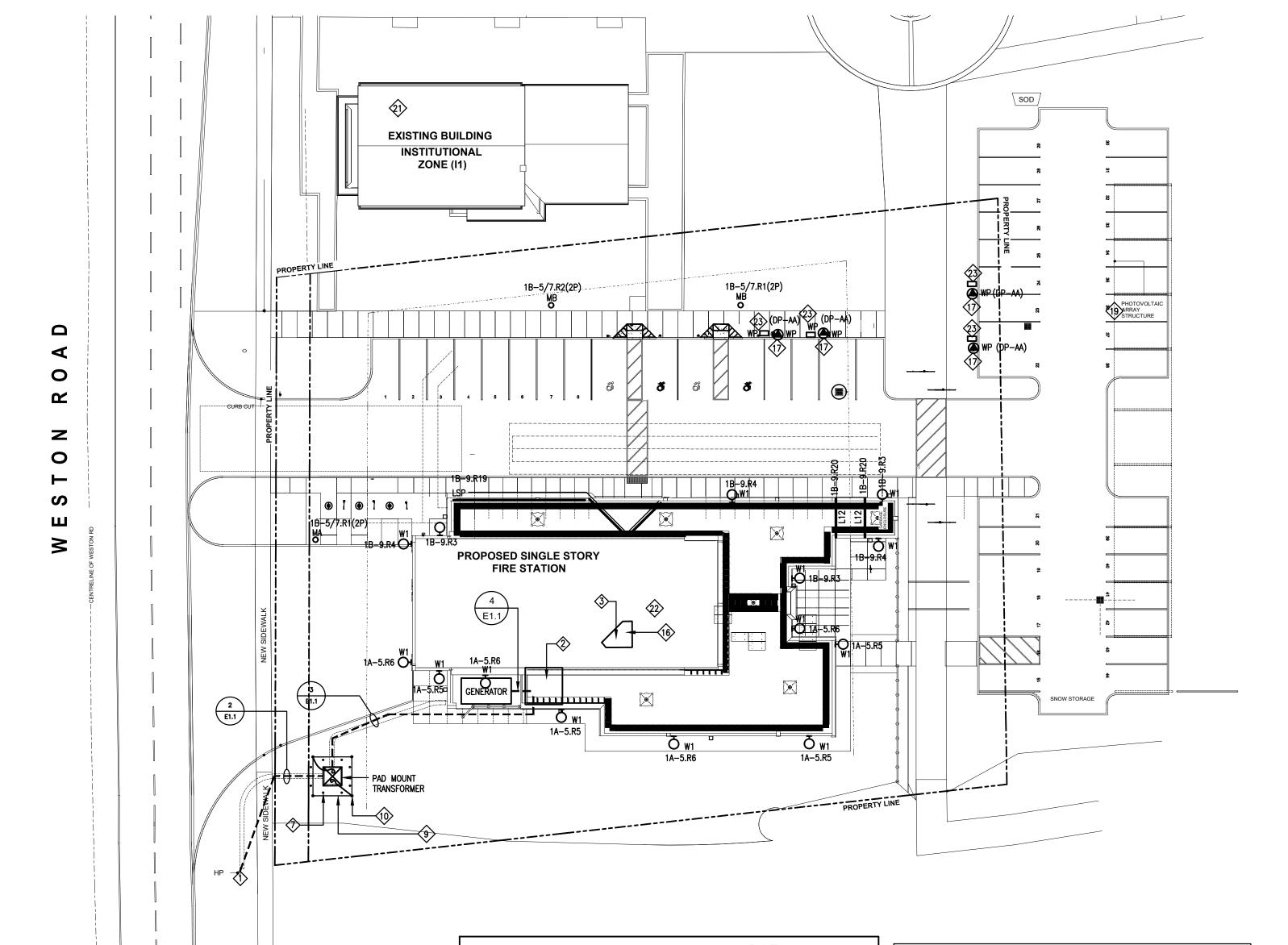
FOR POWER CABLES

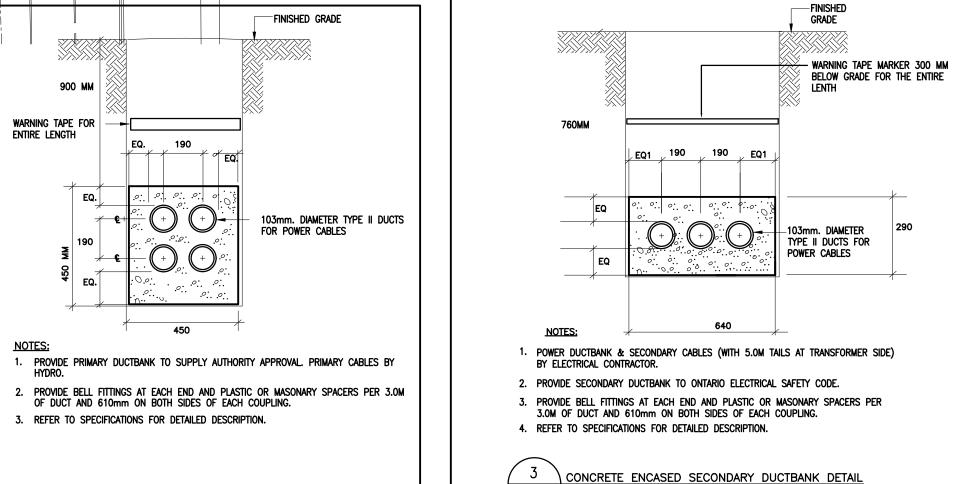
1. PROVIDE PRIMARY DUCTBANK TO SUPPLY AUTHORITY APPROVAL. PRIMARY CABLES BY HYDRO.

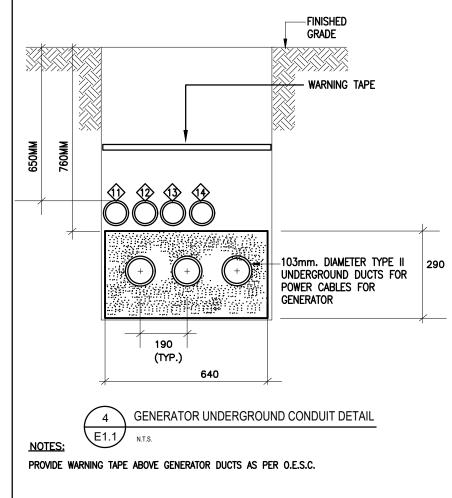
² CONCRETE ENCASED PRIMARY DUCTBANK DETAIL

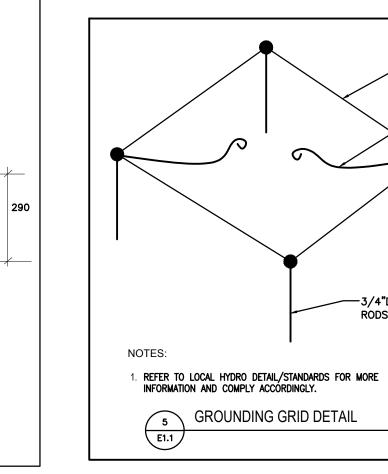
3. REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION.

E1.1 *∫* N.T.S.









DRAWING NOTES:

- PRIMARY DUCT BANK SHALL BE TERMINATED AT HYDRO POLE. COORDINATE WITH HYDRO FOR EXACT LOCATION OF THE HYDRO POLE & TERMINATION OF THE PRIMARY DUCT BANK PRIOR TO
- APPROXIMATE LOCATION OF MAIN ELECTRICAL ROOM AT GROUND
- PROVIDE 3-103 mm UNDERGROUND CONDUITS (C/W WARNING TAPES AS PER OESC) FOR TEL/CABLE/FIBRE TO BE LOCATED BELOW GRADE AS PER TABLE-53 OF LATEST OESC REQUIREMENTS AND/OR AS REQUIRED BY SERVICE PROVIDERS (MINIMUM DEPTH OF THE CONDUITS TO BE AS PER TABLE-53 OF OESC). CO-ORDINATE WITH OWNER FOR THEIR SERVICE PROVIDERS INFORMATION AND PROVIDE THE UNDERGROUND CONDUITS FOR TEL/CABLE/FIBRE ACCORDINGLY FROM THE I.T. ROOM AT MEZZANINE LEVEL (VERIFY ON SITE FOR EXACT LOCATION/ROOM FOR TERMINATION OF THE CONDUITS PRIOR TO ROUGH-IN) UPTO PROPERTY LINES/POINTS OF SERVICES AS REQUIRED BY THE RESPECTIVE SERVICE PROVIDERS. PROVIDE ALL NECESSARY CO-ORDINATION, EXCAVATION, BACK FILLING, PULL WIRES, ALL MATERIAL, LABOR, ETC. REQUIRED FOR COMPLETE ROUGH-IN SYSTEMS. CO-ORDINATE ON SITE & WITH OTHER TRADES (PRIOR TO COMMENCEMENT OF WORK) FOR ROUTES OF THESE UNDERGROUND CONDUITS. ALLOW FOR APPROXIMATELY 100.0M AS LENGTH (MORE OR LESS) OF EACH CONDUIT.
- THE WARNING TAPES SHOWN/DESCRIBED ON THIS DRAWING SHALL COMPLY WITH RULE 12-012(11) OF OESC. THE TAPE MUST BE BURIED APPROXIMATELY HALFWAY BETWEEN THE INSTALLATION AND GRADE LEVEL, COVERING THE WIDTH OF THE RACEWAYS OR CABLES FOR THE ENTIRE LENGTH & SHALL BE INSTALLED AS PER BULLETIN 12-2 OF OESC.
- ALL EXTERIOR LIGHTING CIRCUITS SHALL BE CARRIED OUT WITH #10 AWG CONDUCTOR.
- 6. ANY METAL (I.E. METAL FENCES, BOLLARDS, PROTECTIVE BARRIERS, ETC.) LOCATED WITHIN 2.4M OF THE PAD MOUNTED TRANSFORMER SHALL BE BONDED TO STATION GROUND ELECTRODE WITH 2/0 AWG COPPER CONDUCTORS AS PER RULE 36-308 & BULLETIN 36-10 OF LATEST OESC.
- PROVIDE PROTECTIVE BOLLARDS (TYP.). CO-ORDINATE WITH HYDRO FOR EXACT LOCATIONS, QUANTITIES OF THE BOLLARDS AND MOUNTING DETAIL OF BOLLARDS PRIOR TO ROUGH-IN AND COMPLY ACCORDINGLY.
- 8 PROVIDE POWER & DATA OUTLET FOR PYLON SIGNAGE, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 9> PROVIDE GROUNDING LOOP TO TRANSFORMER AS PER HYDRO STANDARDS (TYP.). REFER DETAIL#5 ON DWG. E1.1 FOR MORE
- PROVIDE GROUNDING RODS, QUANTITIES, LOCATIONS, TYPE TO BE AS PER HYDRO REQUIREMENTS/HYDRO STANDARDS. COORDINATE WITH HYDRO & PROCEED ACCORDINGLY.
- PROVIDE 1-53MM UNDERGROUND CONDUIT C/W WIRING TO GENERATOR ANNUNCIATOR PANEL.
- PROVIDE 1-41MM UNDERGROUND CONDUIT C/W WIRING FOR GEN. PANEL FROM PANEL-1A
- PROVIDE 1-27MM UNDERGROUND CONDUIT C/W WIRING TO ATS-1
- FOR START OPTION. PROVIDE 1-27MM UNDERGROUND CONDUIT C/W WIRING TO ATS-1
- FOR TRIPPING GENERATOR LOAD TESTING BREAKER-G2. (15) PROVIDE PROTECTIVE BOLLARDS (TYP.) FOR GENERATOR, COORDINATE ON SITE FOR EXACT LOCATION & QUANTITIES PRIOR
- APPROXIMATE LOCATION OF I.T. ROOM—140 AT MEZZANINE LEVEL.
- PROVIDE DATA OUTLET & POWER FOR EV CHARGING STATION (TO BE FED FROM DP-AA FROM 40A,2P BREAKER, REFER DWG. E4.0 FOR MORE INFORMATION) COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE POWER & DATA OUTLET FOR POWER GATE, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE 2-3" CONDUITS FROM THIS LOCATION TO MAIN ELECTRICAL ROOM-133 FOR PHOTOVOLTAIC SYSTEM, COORDINATE ON SITE FOR EXACT LOCATION OF TERMINATION OF CONDUITS PRIOR TO ROUGH-INS. BOTH ENDS OF THE CONDUITS TO BE SEALED SUITABLE TO AVOID ENTRY OF WATER/FOREIGN MATERIAL INTO THE CONDUITS.
- REFER DWG. E6.1 FOR HYDRO DETAILS & COMPLY ACCORDINGLY. PROVIDE 3-103 mm UNDERGROUND CONDUITS (C/W WARNING TAPES AS PER OESC) FOR TEL/CABLE/FIBRE TO BE LOCATED
- BELOW GRADE AS PER TABLE-53 OF LATEST OESC REQUIREMENTS FROM I.T. ROOM OF EXISTING BUILDING INSTITUTIONAL ZONE (VELLORE HALL) TO I.T. ROOM AT MEZZANINE LEVEL (IDENTIFIED BY DWG. NOTE-16) FOR COMMUNICATION WIRING, COORDINATE ON SITE FOR EXACT POINTS OF TERMINATION & ROUTE OF THE CONDUIT PRIOR TO ROUGH-INS. PROVIDE 2-3" CONDUITS FROM THIS LOCATION AT ROOF TO MAIN ELECTRICAL ROOM-133 FOR PHOTOVOLTAIC SYSTEM. COORDINATE
- ON SITE FOR EXACT LOCATION OF TERMINATION OF CONDUITS PRIOR TO ROUGH-INS. BOTH ENDS OF THE CONDUITS TO BE SEALED SUITABLE TO AVOID ENTRY OF WATER/FOREIGN MATERIAL INTO THE CONDUITS. PROVIDE 2" CONDUIT FROM EV CHARGING STATION TO I.T. ROOM AT MEZZANINE LEVEL FOR COMMUNICATION WIRING. COORDINATE ON

-#2/0 19 STR. BARE CU. GROUNDING WIRES

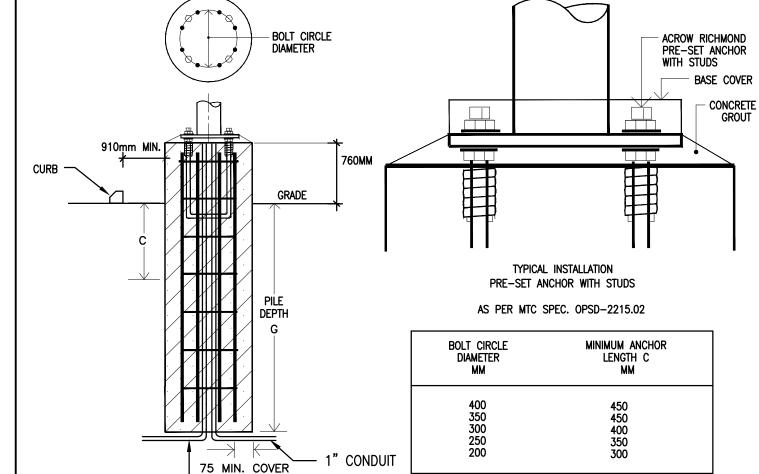
— #2/0 19 STR. BARE (GROUNDING WIRES TO TRANSFORMER

(TYPICAL)

-3/4"DIA. X10' LONG GROUNDING

RODS AS PER HYDRO STANDARDS

SITE FOR EXACT LOCATION OF THE CONDUIT.



BORED CONCRETE PILE VERTICAL REINFORCING: 6-20 M BARS

MATERIALS: CONC. f'c = 20 MPaREINF.fy = 400MPa

10M TIES AT 400mm

1" CONDUIT —

MINIMUM PILE DIAMETER = 600 mm MINIMUM PILE DEPTH BELOW GRADE =1500 mm TO UNDISTURBED BED LEVEL

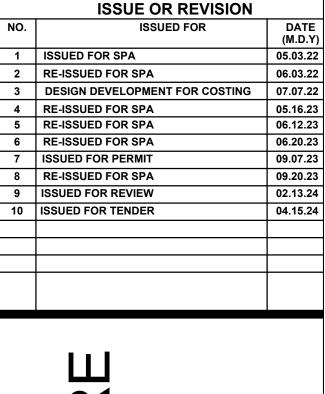
TYPICAL BASE FOR LIGHTING POLES

PILE DEPTH G BELOW FINISHED GRADE 1. TO BE SELECTED BASED ON CALCULATED BASE SHEAR AND BASE MOMENT IN ACCORDANCE WITH LATEST EDITION OF NBC FOR WIND PRESSURE, 13mm RADIAL ICE & EFFECTIVE PROJECTED AREA OF LUMINAIRES. SUBMIT CALCULATIONS FOR APPROVED LUMINAIRES & POLES BEFORE

- 2. TO BE NOT LESS THAN 1500MM BELOW FINISHED
- 3. TOP OF BASE ABOVE FINISHED GRADE AS SPECIFIED. IN EXCESS OF 150MM, INCREASE TO 8 VERTICAL REINFORCING BARS, AND INCREASE ANCHOR LENGTH BY 100MM.

LUMINAIRE SCHEDULE

- MA 960MM HIGH, LANTERN TYPE LED LIGHTING STANDARD (56.0W, 3522 LUMENS) C/W 3.47M HIGH STEEL STRAIGHT POLE ON 760MM ABOVE GRADE CONCRETE BASE (TOTAL HEIGHT OF THE LIGHT STANDARD TO BE 5.49M ABOVE GRADE), SINGLE HEAD C/W 208V DRIVER. 3000K. POLE AND LUMINAIRE SHALL HAVE FINISH AS PER ARCHITECT SELECTION. NLS# DMR-1-T3-M0-32L-53-30K8-HSS-R0-AM-PT. B0-U0-G1 ACUITY, COOPER, SIGNIFY
- 960MM HIGH, LANTERN TYPE LED LIGHTING STANDARD (56.0W, 3539 LUMENS) C/W 3.47M HIGH STEEL STRAIGHT POLE ON 760MM ABOVE GRADE CONCRETE BASE (TOTAL HEIGHT OF THE LIGHT STANDARD TO BE 5.49M ABOVE GRADE), SINGLE HEAD C/W 208V DRIVER. 3000K. POLE AND LUMINAIRE SHALL HAVE FINISH AS PER ARCHITECT SELECTION. NLS# DMR-1-T4-M0-32L-53-30K8-HSS-R0-AM-PT. B0-U0-G1 ACUÏTY, COOPER, SIGNIFY
- WI LED WALL PACK (9.4W, 1064 LUMENS), MOUNTED @ 3.1M, C/W 120V DRIVER, 3000K. FINISH TO ARCHITECT'S SELECTION. SOLERA# SRBK-4-D-30K-U0. B1-U0-G0 ACUITY, COOPER, SIGNIFY
- LSP 1.0M LONG, LED LINEAR LED LIGHT FIXTURE, IP65 (TO BE MOUNTED AS RECESSED IN CHANNEL C/W LENS), 3000K, FOR LIGHTING METAL FACADE, 4.2W/FT., 512 LUMENS/FT. LENGTH & QUANTITIES TO SUIT SITE CONDITIONS (VERIFY ON SITE FOR EXACT EXTENT OF APPLICATION). FINISH TO ARCHITECT'S SELECTION.120V DRIVER. MOUNTED @ 3.2M A.F.F. DIODE# D1-24V-VL5-30K-W016-D1-CPCHB-16-120V. TOTAL LENGTH AS PER SITE CODITIONS ACUITY, COOPER, SIGNIFY



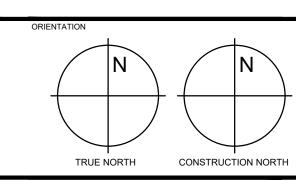
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CLIENT

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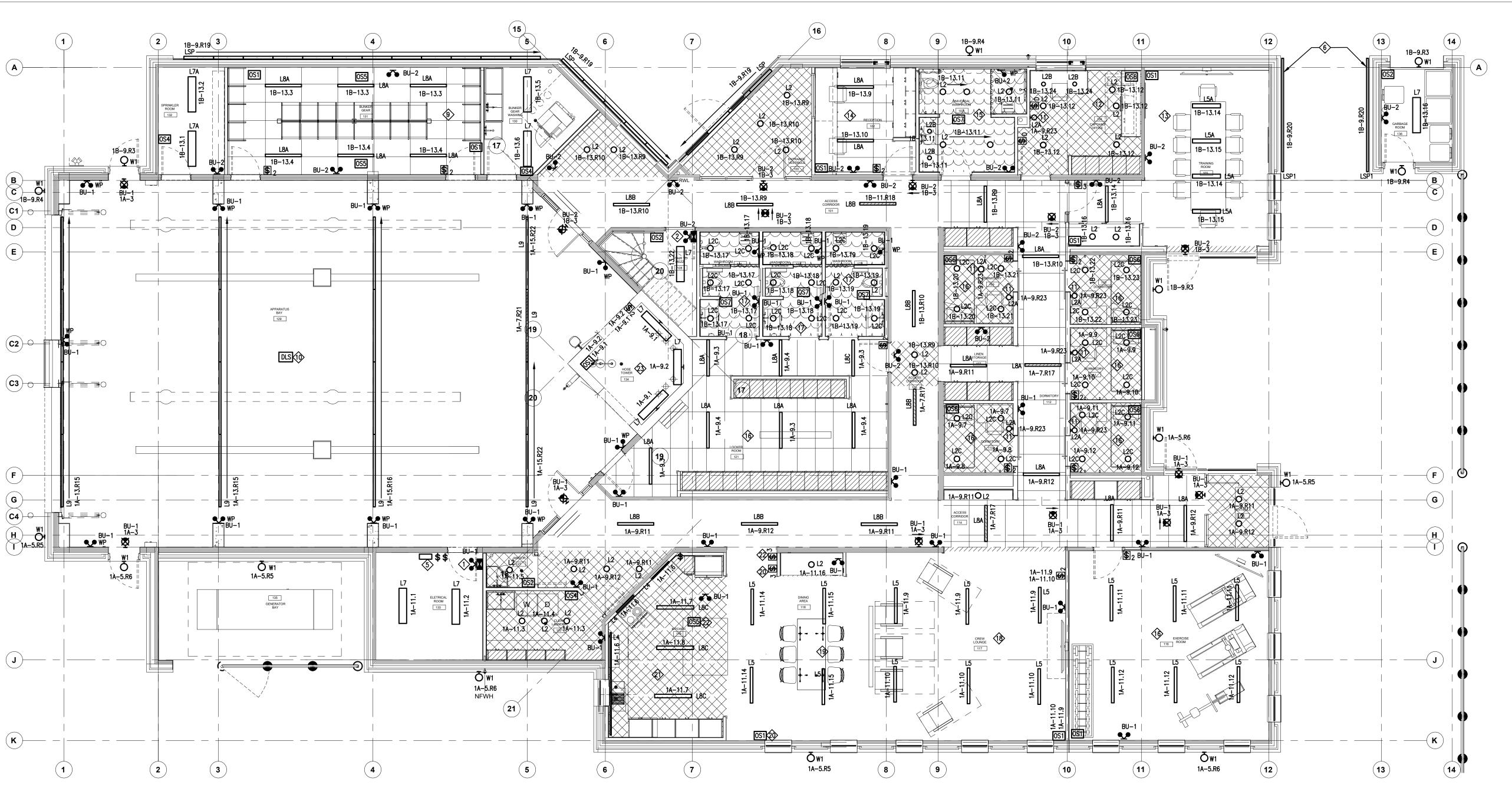
SITE PLAN -**ELECTRICAL**



DRAWN BY CHECKED BY 1:300 DWG STATUS:

PROJECT No.

REVISION



- PROVIDE BATTERY UNIT BU-1 (720W) AT HIGH LEVEL, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE CCT.#1A-1 TO THE BATTERY UNIT.
- PROVIDE BATTERY UNIT BU-2 (720W) AT HIGH LEVEL, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE CCT.#1B-1 TO THE BATTERY UNIT.
- RESERVED.
- 4 RESERVED.
- PROVIDE LOW VOLTAGE MASTER SWITCH PANEL (LVMSP) IN A LOCKABLE BACKBOX. REFER DETAIL#1 ON DWG. E7.0 FOR MORE INFORMATION.

 CONCEAL LED STRIP LIGHTING @ BOTH SOFFIT SIDES.
- REFER DETAIL#2 ON DWG. E7.0 FOR LIGHTING CONTROL OF LIGHT FIXTURES CONTROLLED BY OCCUPANCY SENSORS TYPE—OS2.
- 8. REFER DETAIL#3 ON DWG. E7.0 FOR LIGHTING CONTROL OF LIGHT FIXTURES CONTROLLED BY OCCUPANCY SENSORS TYPE-OS4.

 9 REFER DETAIL#7 ON DWG. E7.0 FOR LIGHTING CONTROL OF THIS POOM.
- THIS DAYLIGHT SENSOR SHALL CONTROL LIGHTING RELAYS FEEDING LIGHT FIXTURES IN APPARATUS AREA IN TWO STEPS AS FOLLOWS: STEP-1: RELAYS R15, R21. STEP-2: RELAY R16.
- LIGHT FIXTURE-L2A SHALL BE CONTROLLED BY FSA SYSTEM (FIRE STATION ALERT SYSTEM). FEED THE LIGHT FIXTURE FROM CCT.# AS INDICATED. CO-ORDINATE ON SITE FOR EXACT LOCATION OF THE LIGHT FIXTURE PRIOR TO ROUGH-IN. THE LIGHT FIXTURE SHALL REMAIN 'ON' UPON RECEIPT OF FSA SIGNAL AND SHUT-OFF AUTOMATICALLY AFTER TWO (2) MINUTES. THE RELAY-R23 SHALL BE PROGRAMMED ACCORDINGLY. REFER LIGHTING CONTROL RELAY SCHEDULE FOR MORE INFORMATION. PROVIDE ALL NECESSARY CONDUITS, WIRING, OTHER MATERIAL AS REQUIRED AS WELL AS LABOUR FOR FULLY OPERATIONAL SYSTEM AS INTENDED.
- REFER DETAIL#1 ON DWG. E7.1 FOR LIGHTING CONTROL OF THIS
- REFER DETAIL#2 ON DWG. E7.1 FOR LIGHTING CONTROL OF THIS
- REFER DETAIL#5 ON DWG. E7.0 FOR LIGHTING CONTROL OF THIS
- REFER DETAIL#4 ON DWG. E7.0 FOR LIGHTING CONTROL OF THIS ROOM.
- LIGHTING CONTROL OF THIS ROOM SHALL BE SIMILAR TO THE ONE AS DESCRIBED UNDER DETAIL#5 ON DWG. E7.0.
- LIGHTING CONTROL OF THIS ROOM SHALL BE SIMILAR TO THE ONE AS DESCRIBED UNDER DETAIL#4 ON DWG. E7.0.

 LIGHTING CONTROL OF THIS ROOM (CCT.#1A-11.9, 1A-11.10) SHALL
- LIGHTING CONTROL OF THIS DINING ROOM (CCT.#1A-11.15, 1A-11.14, 1A-11.16) SHALL BE SIMILAR TO THE ONE AS DESCRIBED UNDER

BE SIMILAR TO THE ONE AS DESCRIBED UNDER DETAIL#5 ON DWG.

- DETAIL#2 ON DWG. E7.1.

 DIGITAL SWITCH/OCCUPANCY SENSOR TO CONTROL CCT.#1A-11.15,
- 1A-11.14 & 1A-11.16.

 21) REFER DETAIL#3 ON DWG. E7.1 FOR LIGHTING CONTROL OF KITCHEN
- DIGITAL SWITCH/OCCUPANCY SENSOR TO CONTROL CCT.#1A-11.6, 1A-11.7 & 1A-11.8.
- LIGHTING CONTROL OF THESE LIGHT FIXTURES (CCT.#1A-9.1, 1A-9.2)
 SHALL BE SIMILAR TO THE ONE AS DESCRIBED UNDER DETAIL#5 ON DWG. E7.0.

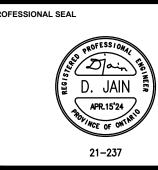
	ISSUE OR REVISION	
NO.	ISSUED FOR	DATE (M.D.)
1	DESIGN DEVELOPMENT FOR COSTING	07.07.2
2	ISSUED FOR PERMIT	09.07.2
3	ISSUED FOR REVIEW	02.13.2
4	ISSUED FOR TENDER	04.15.2
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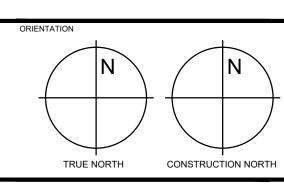
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MEP

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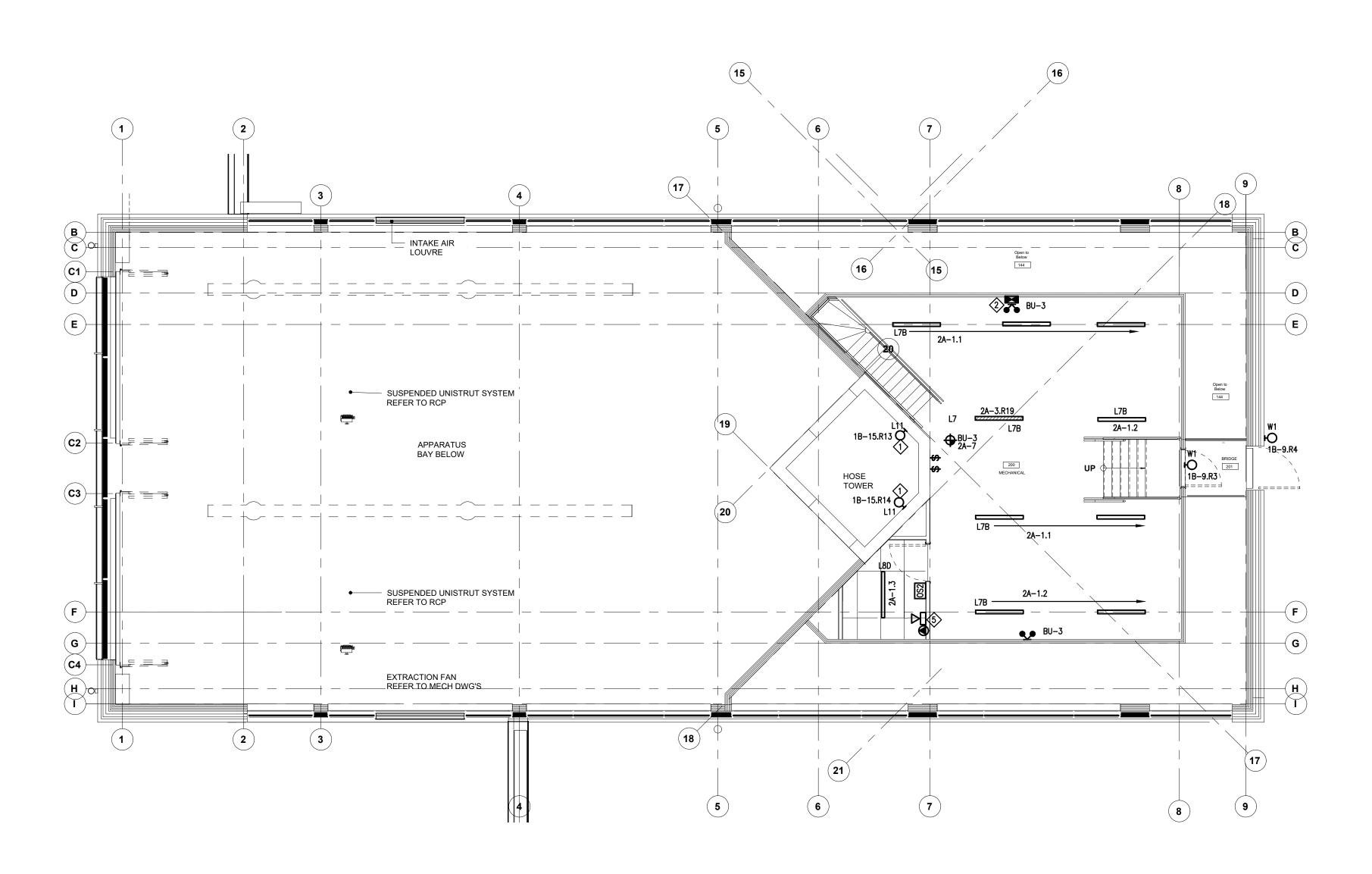
LIGHTING LAYOUT
-GROUND FLOOR



SCALE 1:75 DRAWN BY CV

PROJECT No.

E2.1



PROVIDE LIGHT FIXTURE (@11.0M. COORDINATE ON SITE FOR EXACT MOUNTING HEIGHT TO HAVE OPTIMUM RESULTS AS INTENDED) TO BACKLIGHT WINDOW SO THAT THE LOGO OUT OF TRANSPARENT RED GLASS IS VISIBLE AT NIGHT.

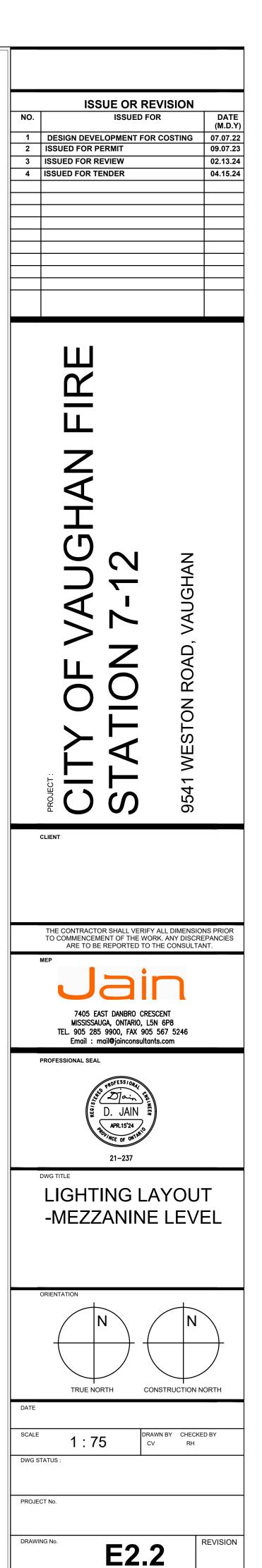
PROVIDE BATTERY UNIT BU-3 (320W) © HIGH LEVEL, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE CCT.#2A-5 TO THE BATTERY UNIT.

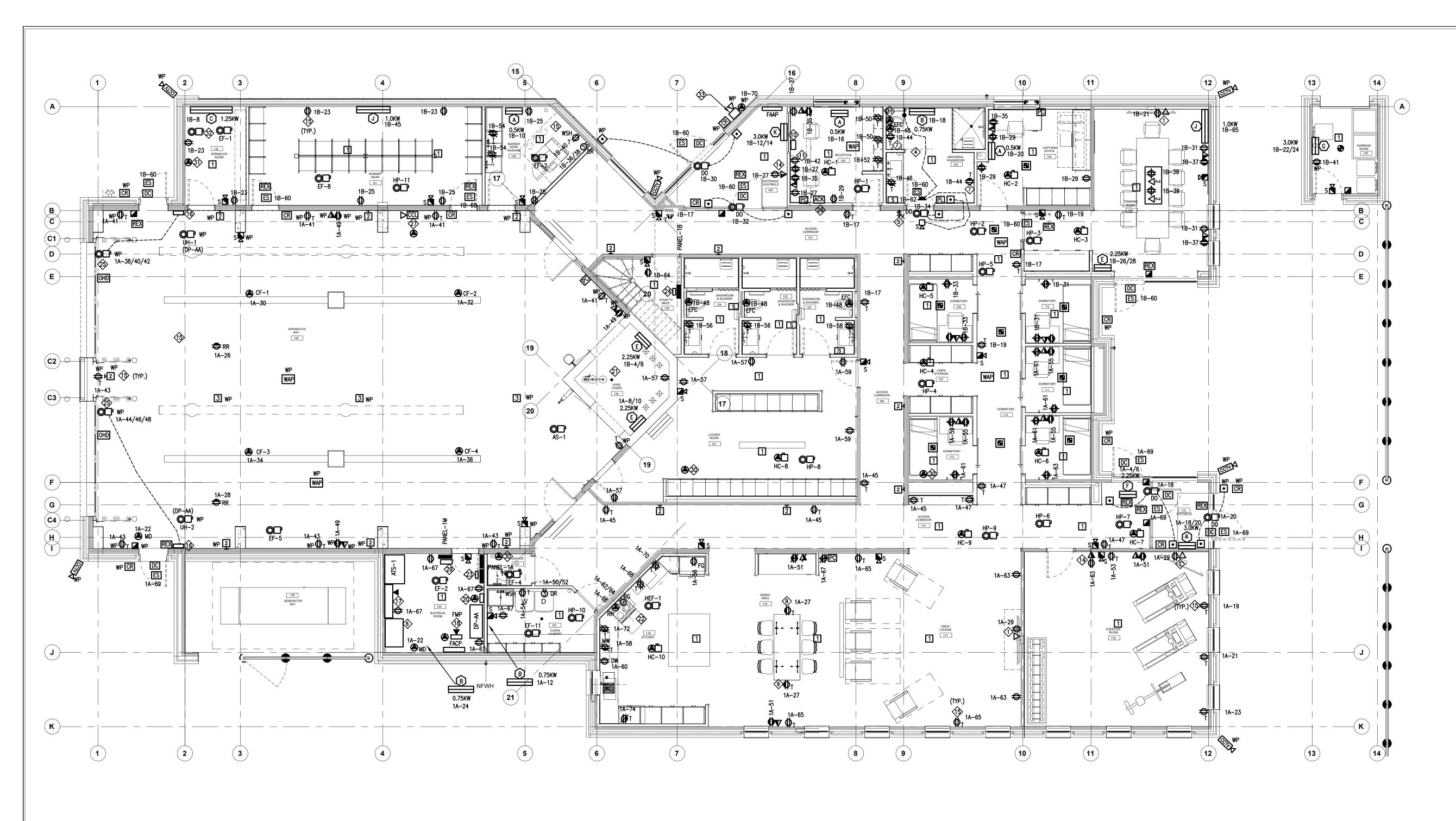
3. REFER DETAIL#2 ON DWG F7 0 FOR LIGHTING CONTROL OF LIGHT

REFER DETAIL#2 ON DWG. E7.0 FOR LIGHTING CONTROL OF LIGHT FIXTURES CONTROLLED BY OCCUPANCY SENSORS TYPE-0S2.
 REFER DETAIL#3 ON DWG. E7.0 FOR LIGHTING CONTROL OF LIGHT FIXTURES CONTROLLED BY OCCUPANCY SENSORS TYPE-0S4.

FIXTORES CONTROLLED BY OCCUPANCY SENSORS TIPE—034.

FIRE ALERT SYSTEM. PROVIDE POWER (CCT.#2A—29) & DATA OUTLET FOR THE SYSTEM. THE FIRE ALERT SYSTEM SHALL TURN LIGHT FIXTURES TYPE—L2A 'ON' LOCATED IN CAPTION OFFICE—104 & DORMITORY ROOMS THROUGH RELAY—R23. REFER LIGHTING CONTROL RELAY SCHEDULE ON DWG. E7.0 & DWG. NOTE—11 ON DWG. E2.1 FOR MORE INFORMATION.





- COORDINATE ON SITE FOR EXACT LOCATION & MOUNTING HEIGHT OF OUTLETS FOR TV PRIOR TO ROUGH-IN.
- PROVIDE 19MM THICK, 2.44M HIGH FIRE RESISTANT
- COMMUNICATION PLYWOOD BOARD FOR TEL/CABLE/DATA SERVICES PROVIDE #6 AWG GROUNDING CONDUCTOR IN CONDUIT C/W GROUNDING BUS BARS OF SIZE 1/4"X2"X10" FOR EACH SYSTEM (AS REQUIRED BY SYSTEM SUPPLIERS) FOR TELEPHONE, I.T RACK, FACP, SERVER, SECURITY PANEL CABLE TV , DATA EQUIPMENTS BONDING IN I.T. ROOM. EXACT LOCATION TO BE VERIFIED ON SITE. GROUNDING OF THE EQUIPMENTS IN THE I.T. ROOM SHALL BE CONNECTED TO MAIN GROUNDING BUS BAR OF THE MAIN BUILDING.
- PROVIDE CALL FOR ASSISTANCE SYSTEM IN THIS WASHROOM WHICH SHALL BE CAMDEN# CX-WEC10 CONSISTING OF: 1 NO. MUSHROOM PUSH BUTTON, STAINLESS STEEL, PUSH/PULL, 'PRESS FOR EMERGENCY ASSISTANCE', CAMDEN# CM-450R/12.
 THE PUSH BUTTON SHALL BE MOUNTED ON A SINGLE GANG 1 NO. SINGLE GANG LED ANNUNCIATOR C/W SOUNDER, 'ASSISTANCE REQUESTED', CAMDEN# CM-AF501SO. THE SINGLE
- GANG LED ANNUNCIATOR C/W SOUNDER SHALL BE MOUNTED INSIDE THE B.F. WASHROOM. 1 NO. SINGLE GANG DOME LIGHT WITH SOUNDER, 'ASSISTANCE REQUESTED', CAMDEN# CM-AF140SO. TO BE MOUNTED OUTSIDE THE B.F. WASHROOM. 1 NO. ENGLISH, SOLID WHITE SIGN (152MMX270MM, IN THE EVENT OF AN EMERGENCY, PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE), CAMDEN# CM-SE21A. THIS SIGN SHALL BE MOUNTED ABOVE THE
- EMERGENCY PUSH BUTTON OF CALL FOR ASSISTANCE SYSTEM. 1 NO. POWER SUPPLY, 24VAC C/W 40VA STANDARD MOUNT TRANSFORMER AND AC/DC RECTIFIER (CAMDEN# CX-TRK24-50). THE POWER SUPPLY SHALL BE LOCATED IN NEAREST ACCESSIBLE CEILING SPACE.

 REFER LEGEND FOR MORE INFORMATION.

 PROVIDE ALL MATERIAL, LABOR, CONDUITS AND WIRING FOR FULLY OPERATIONAL SYSTEM AS PER LATEST OBC REQUIREMENTS.
- 5 KEYED SWITCH TO RELEASE ELECTRIC STRIKE OF UNIVERSAL ROOM-103 IN CASE OF EMERGENCY.
- 6 208V, 1000A/1000AT,3P, 100% RATED MAIN BREAKER C/W
- ENCLOSURE (65KA). PROVIDE POWER FOR ADULT CHANGE TABLE, COORDINATE ON SITE FOR EXACT LOCATION & MOUNTING HEIGHT PRIOR TO
- COORDINATE ON SITE FOR EXACT LOCATION & MOUNTING HEIGHTS OF OUTLETS FOR MICROWAVES, DISHWASHERS & FRIDGES PRIOR
- RECEPTACLE TO BE LOCATED ON ISLAND, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH—IN.
- PA SYSTEM, COORDINATE ON SITE FOR EXACT LOCATION PRIOR PROVIDE POWER FOR PA SYSTEM (ADJACENT TO THE PA
- SYSTEM), COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO 12. COORDINATE ON SITE FOR EXACT LOCATION OF FLOOR BOXES PRIOR TO ROUGH-IN.
- NO SURFACE MOUNTED CONDUITS SHALL BE PROVIDED IN CREW AREA (CAPTION OFFICE & DORMITORY ROOMS).
- PROVIDE POWER & VOICE/DATA FOR PHONE/INTERCOM WITH RECEPTION. COORDINATE ON SITE FOR EXACT LOCATION & MOUNTING HEIGHT PRIOR TO ROUGH—IN. power feed for all the outlets located on perimeter
- SHALL BE PROVIDED FROM BELOW SLAB (TYP.). CONTROL PANEL (UP/DOWN/OFF SWITCH) FOR OVERHEAD DOOR, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH—IN.
- HYDRO METERING CABINET. PROVIDE A DEDICATED PHONE LINE & POWER FOR THE METERING CABINET. FIRE ALARM MONITORING PANEL (FMP). PROVIDE A DEDICATED PHONE LINE FOR THE MONITORING PANEL. PROVIDE 1–21MM CONDUIT FROM THIS MONITORING PANEL TO FACE. PROVIDE
- POWER (CCT.#1A-75) TO THE MONITORING PANEL. 19. COORDINATE ON SITE FOR EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO ROUGH—IN.
- GENERATOR ANNUNCIATOR PANEL, PROVIDE CCT.#1A-80 TO THE
- ALL CONDUITS TO RUN INSIDE TOWER INCLUDING CONDUITS FOR LIGHT FIXTURES.
- COORDINATE ON SITE & WITH KITCHEN DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF RECEPTACLES/OUTLETS FOR VARIOUS APPLIANCES PRIOR TO ROUGH-IN.
- RELAY PANEL-R1A SHALL BE LOCATED ABOVE PANEL-1A.
- RELAY PANEL-R1B SHALL BE LOCATED ABOVE PANEL-1A. PROVIDE POWER FOR OVERHEAD DOOR OPERATOR, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE FUSIBLE DISCONNECT SWITCH TO CONTROL POWER TO THE OVERHEAD DOOR OPERATOR 30A 3P BREAKER HAS BEEN LISED TO FEED THE DOOR OPERATOR, COORDINATE WITH SHOP DWGS. OF THE O/H DOOR OPERATOR AND PROVIDE POWER/WIRING (1-PH. OR 3-PH.) & FUSES TO SUIT THE O/H DOOR
- ACKNOWLEDGE BUTTON FOR THE FIRE STATION ALERT SYSTEM. CO-ORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE 1-21MM CONDUIT & WIRING FROM THIS BUTTON TO FIRE STATION ALERT SYSTEM.
- COUNTDOWN CLOCK-FIRE STATION ALERT SYSTEM. PROVIDE POWER (CCT.#1A-39) & DATA OUTLET FOR THE ALERT SYSTEM. CO-ORDÌNATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE 1-21MM CONDUIT & WIRING FROM FIRE STATION ALERT SYSTEM TO PA SYSTEM.
- 28 RESERVED.
- PTE-1, EMP-1 & EMP-2 FOR DIGITAL METERING SYSTEM, COORDINATE ON SITE AND WITH SYSTEM SUPPLIER FOR EXACT LOCATION & MOUNTING HEIGHT PRIOR TO ROUGH-IN. REFER DWG. E9.0 FOR MORE INFORMATION.
- PROVIDE POWER (CCT.#1A-77) FOR TRAP SEAL PRIMER, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE POWER (CCT.#1B-84) FOR TRAP SEAL PRIMER,
- COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE POWER FOR EXCESS PRESSURE PUMP, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE RECESSED WEATHERPROOF SINGLE GANG BOX FOR EMERGENCY CALL BOX. PROVIDE POWER (CCT.#1B-70) & DATA DROP FOR THE SYSTEM. COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE 1-21MM CONDUIT FROM THIS LOCATION TO RECEPTION ROOM-102.

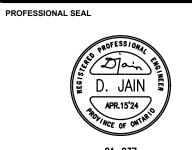
	ISSUE OR REVISION
NO.	ISSUED FOR
1	DESIGN DEVELOPMENT FOR COSTING
2	ISSUED FOR PERMIT
3	ISSUED FOR REVIEW
4	ISSUED FOR TENDER

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR

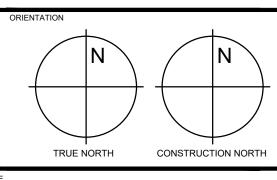
CLIENT

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POWER & SYSTEMS LAYOUT -GROUND FLOOR

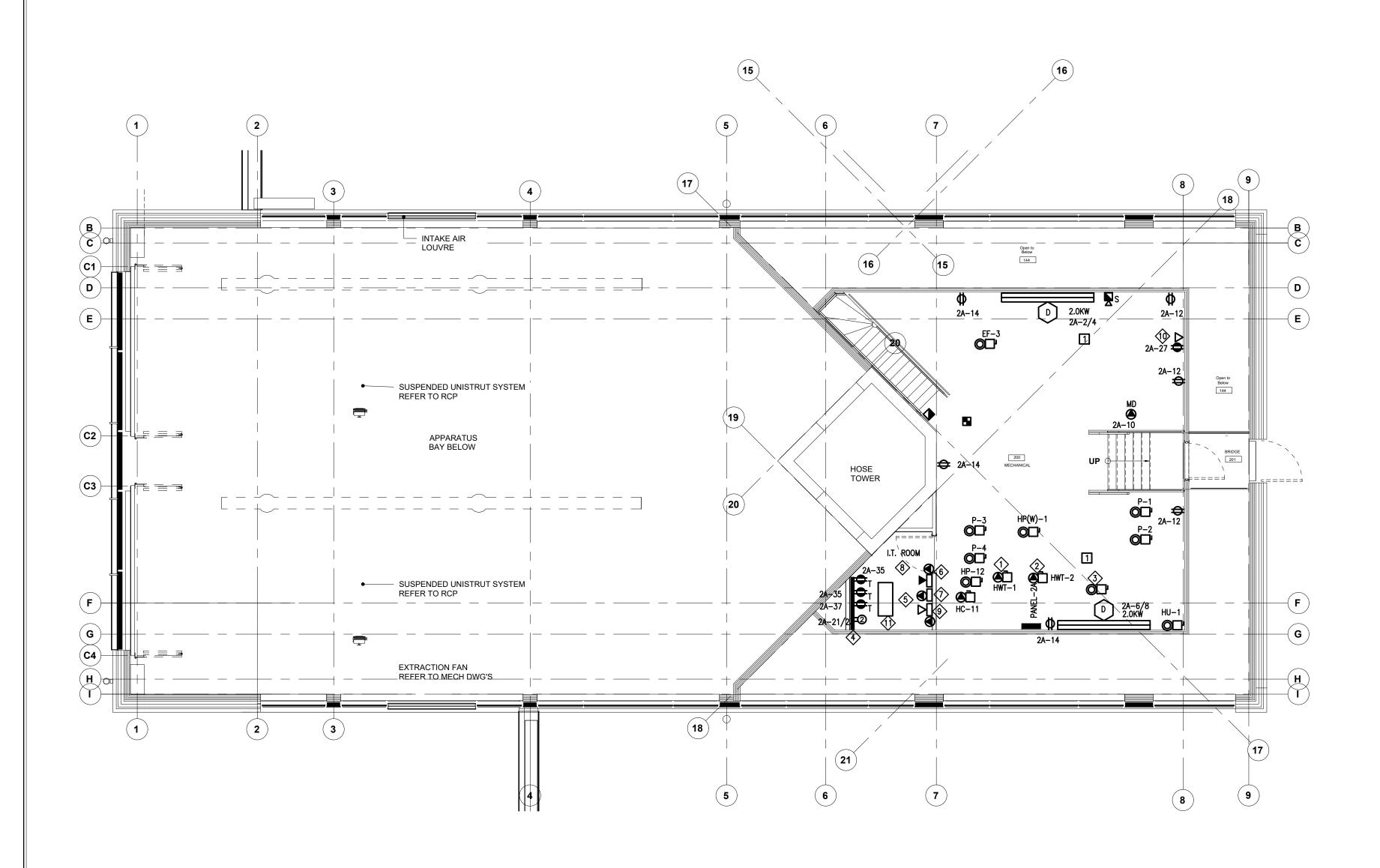


1:75

PROJECT No.

DWG STATUS

REVISION E3.1



- PROVIDE POWER FOR HOT WATER TANK (HWT-1), COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE POWER FOR HOT WATER TANK (HWT-2), COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE POWER FOR CIRC. PUMP FOR HWT-1 & HWT-2, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE 19MM THICK, 2.44M HIGH FIRE RESISTANT COMMUNICATION PLYWOOD BOARD FOR TEL/CABLE/DATA SERVICES
- PROVIDE #6 AWG GROUNDING CONDUCTOR IN CONDUIT C/W
 GROUNDING BUS BARS OF SIZE 1/4"X2"X10" FOR EACH SYSTEM (AS
 REQUIRED BY SYSTEM SUPPLIERS) FOR TELEPHONE, I.T RACK, FACP,
 SERVER, SECURITY PANEL CABLE TV , DATA EQUIPMENTS BONDING IN
 I.T. ROOM. EXACT LOCATION TO BE VERIFIED ON SITE. GROUNDING OF
- GROUNDING BUS BAR OF THE MAIN BUILDING.

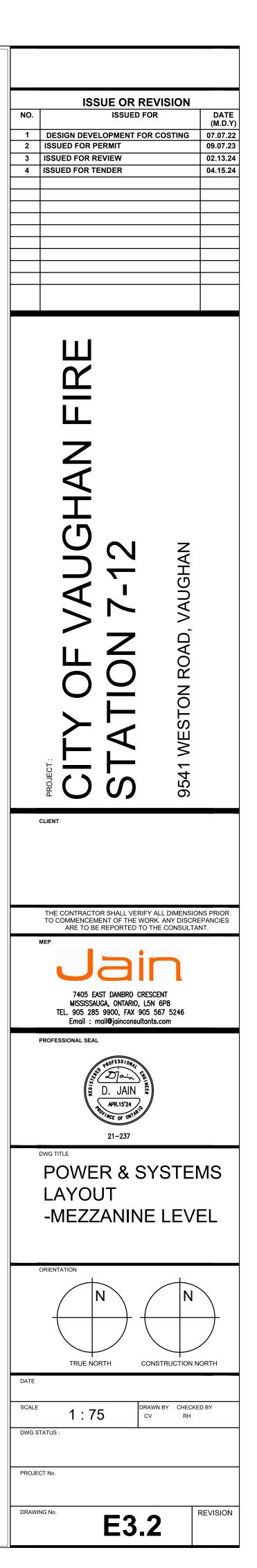
 SECURITY PANEL, PROVIDE POWER (CCT.#2A-33) & A DEDICATED

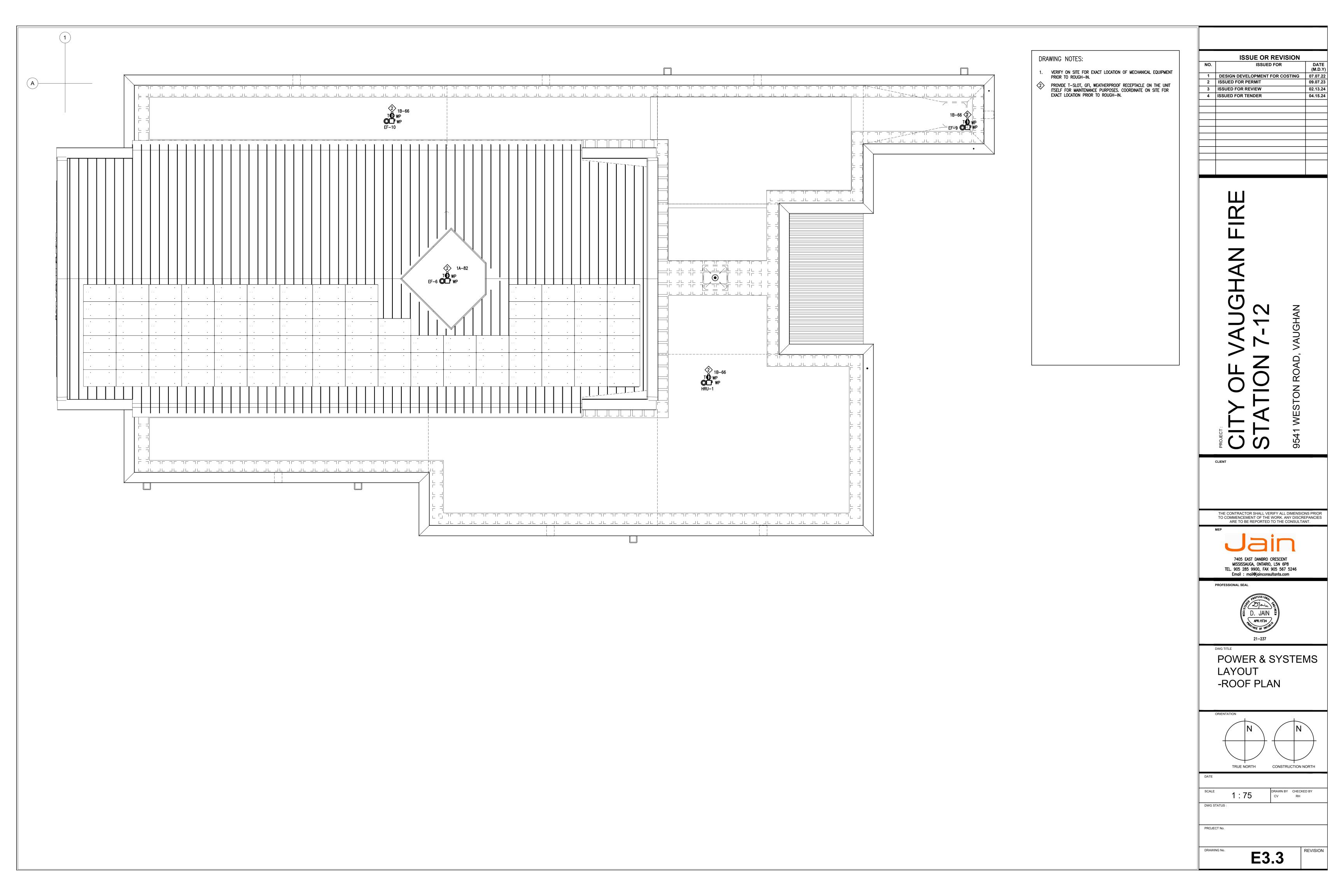
THE EQUIPMENTS IN THE I.T. ROOM SHALL BE CONNECTED TO MAIN

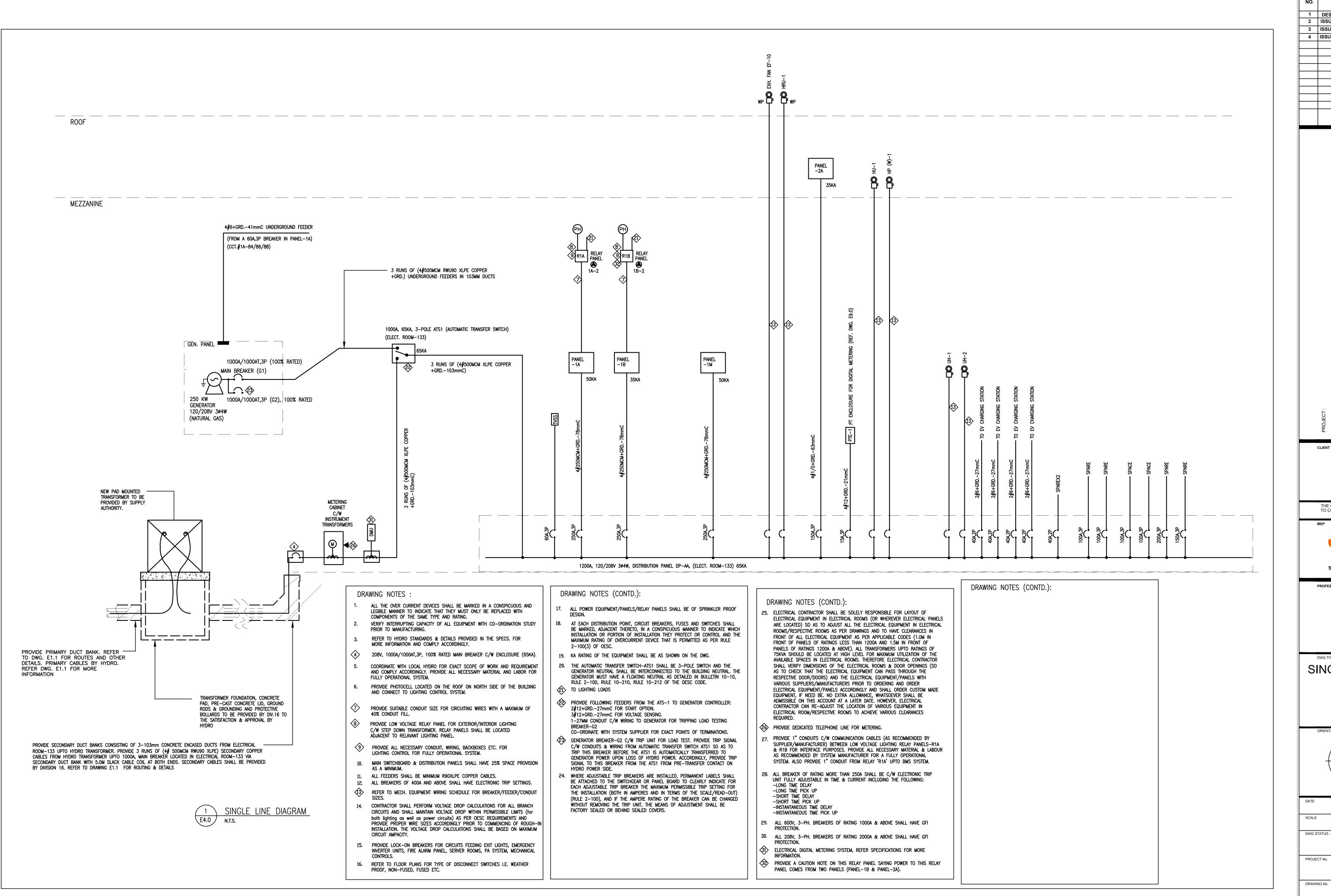
- PHONE LINE FOR THE SECURITY PANEL."

 DOOR ACCESS PANEL, PROVIDE POWER (CCT.#2A-31) FOR THE DOOR ACCESS PANEL.
- PROVIDE 1-63MM CONDUIT FROM I.T. ROOM TO ROOF FOR ANTENA/SETALITE. COORDINATE ON SITE FOR EXACT LOCATION OF TERMINATION OF THE CONDUIT.
- FIRE ALERT SYSTEM. PROVIDE POWER (CCT.#2A-29) & DATA OUTLET FOR THE SYSTEM. THE FIRE ALERT SYSTEM SHALL TURN LIGHT FIXTURES TYPE-L2A 'ON' LOCATED IN CAPTION OFFICE-104 & DORMITORY ROOMS THROUGH RELAY-R23. REFER LIGHTING CONTROL RELAY SCHEDULE ON DWG. E7.0 & DWG. NOTE-11 ON DWG. E2.1 FOR MORE INFORMATION.
- PROVIDE POWER & DATA OUTLET FOR BMS SYSTEM, VERIFY ON SITE FOR EXACT LOCATION PRIOR TO ROUGH—IN.

 FLOOR MOUNTED I.T. RACK

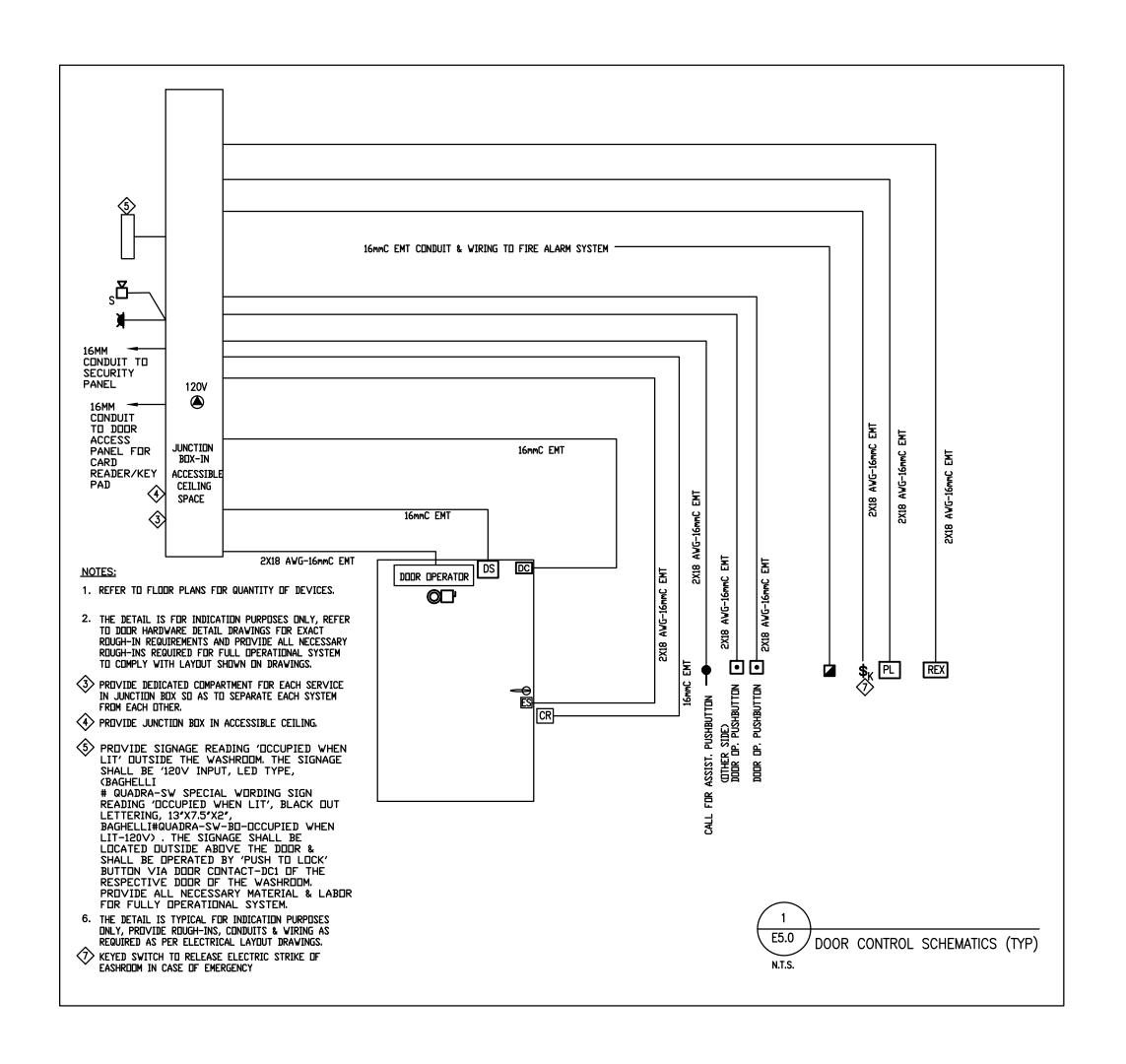


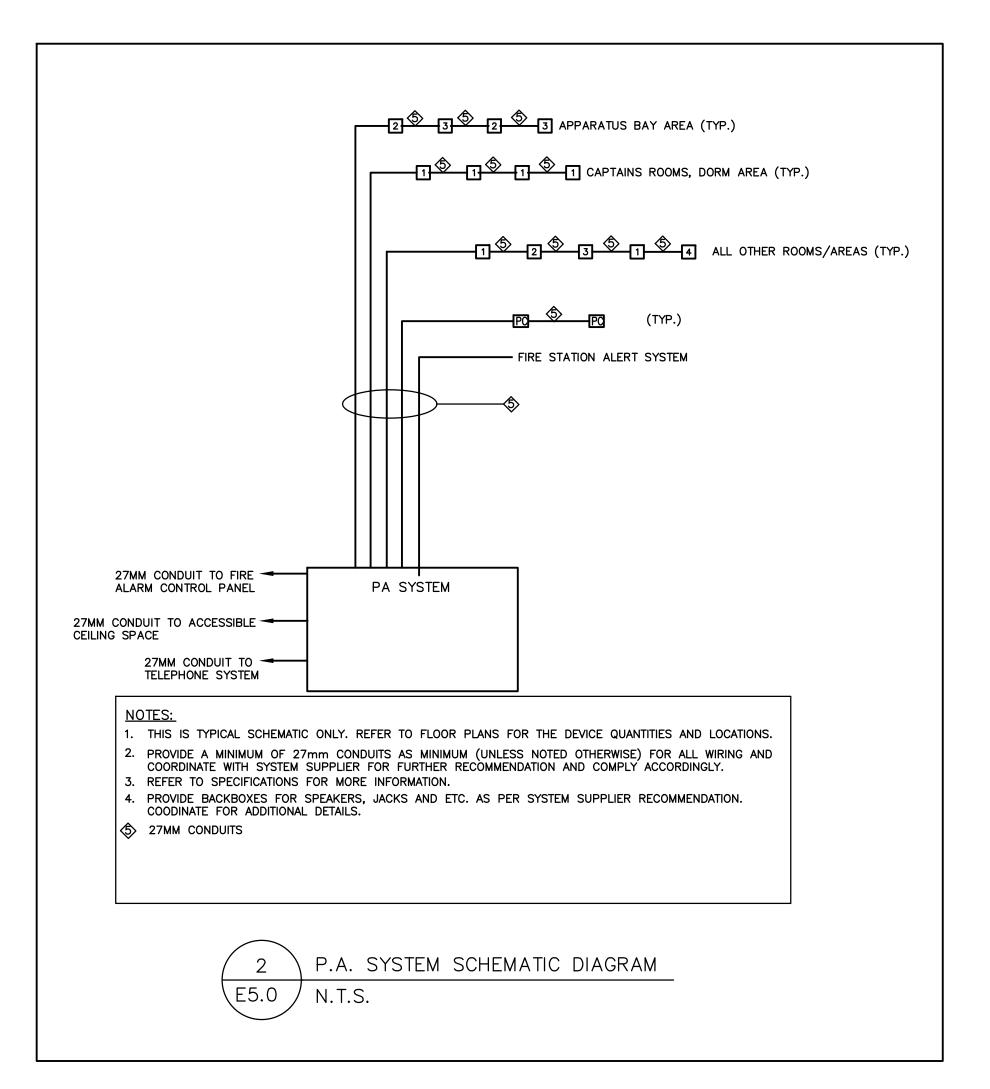


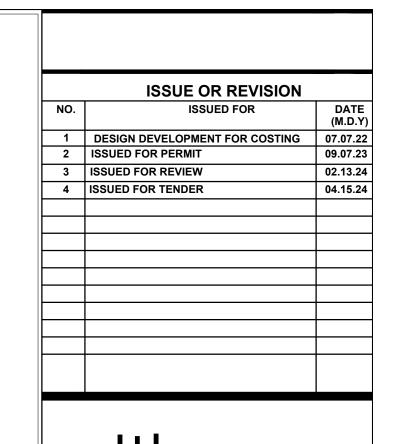


CILLY OF VAUGHAN PERMIT 199.07.23 3 ISSUED FOR REVIEW 02.13.24 4 ISSUED FOR TENDER 04.15.24 STATE OF VAUGHAN PORT OF VALUE OF	NO.	ISSUE OR RE		DATE
CITY OF VAUGHAN FIRE STATION ROAD, VAUGHAN STATION ROAD, VAUGHAN STATION ROAD, VAUGHAN			COSTING	07.07.22
CITY OF VAUGHAN FIRE STATION 7-12 9541 WESTON ROAD, VAUGHAN	3	ISSUED FOR REVIEW		02.13.24
CITY OF VAUGHAN STATION 7-12 9541 WESTON ROAD, VAUGHAN	4	ISSUED FOR TENDER		04.15.22
CITY OF VAUGHAN STATION 7-12 9541 WESTON ROAD, VAUGHAN				
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CITY OF VAUGHAN STATION 7-12 9541 WESTON ROAD, VAUGHAN				
CLIENT		OF VAUGHAN ION 7-12	9541 WESTON ROAD, VAUGHAN	
		MISSISSAUGA, ONTARIO, L5N TEL. 905 285 9900, FAX 905	l 6P8 567 5246	
7405 EAST DANBRO CRESCENT MISSISSAUGA, ONTARIO, L5N 6P8 TEL. 905 285 9900, FAX 905 567 5246 Email: mail@jainconsultants.com				
7405 EAST DANBRO CRESCENT MISSISSAUGA, ONTARIO, L5N 6P8 TEL. 905 285 9900, FAX 905 567 5246 Email : mail@jainconsultants.com		D. JAIN APR.15'24 APR.15'24 APR.15'24		
7405 EAST DANBRO CRESCENT MISSISSAUGA, ONTARIO, L5N 6P8 TEL. 905 285 9900, FAX 905 567 5246 Email: mail@jainconsultants.com PROFESSIONAL SEAL PROFESSIONAL APR.15'24 APR.15'24 APR.15'24	S	D. JAIN APR.15'24 APR.15'24 21-237 DWG TITLE	IAGR	AM

N.T.S.







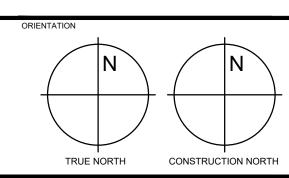
CLIENT

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SCHEMATICS & **DETAILS**



N.T.S. DWG STATUS :

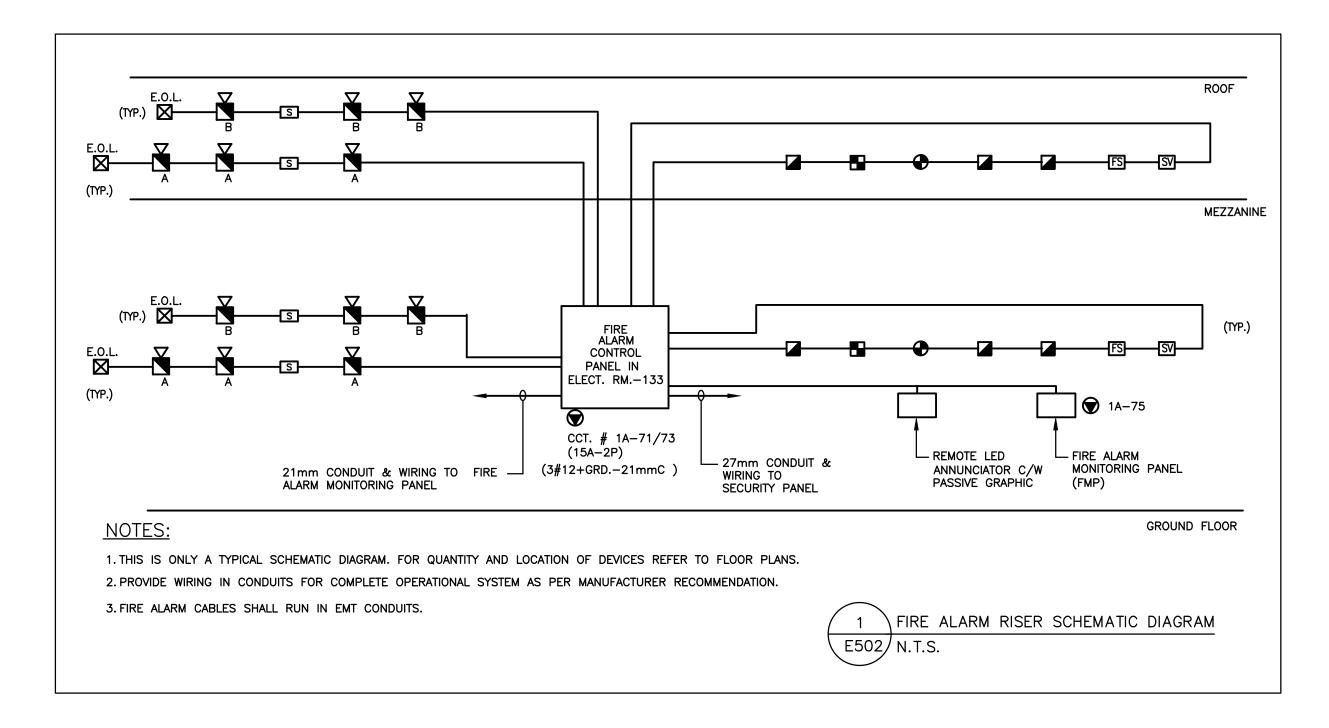
PROJECT No.

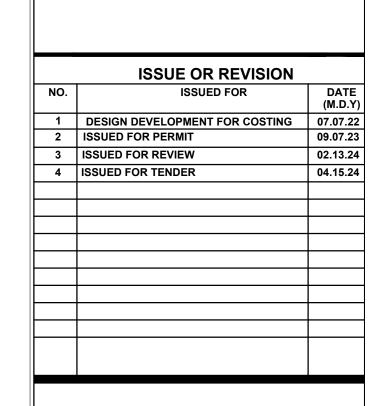
	ALARM ZON					CHEDULE TROUBLE ZO	NFS				
ZONE NO.	AREA SERVED	DEVICES	ALARM	TROUBLE	ZONE NO.	AREA SERVED	DEVICES	ALARM	TROUBLE		
FZ-01	GROUND FLOOR	P.S./S.D./H.D.	✓	✓	SZ-01	GENERATOR RUNNING	MONITOR SWITCH		✓		
FZ-02	MEZZANINE	P.S./S.D./H.D.	✓	✓	SZ-02	GENERATOR TROUBLE	MONITOR SWITCH		✓		
FZ-03	GARBAGE ROOM	P.S./S.D./H.D.	✓	✓	SZ-03	ATS-1 AT BYPASS MODE	MONITOR SWITCH		✓		
FZ-04	MAIN SPRINKLER CHECK VALVE	FLOW SWITCH	✓	✓	SZ-04	GENERATOR GAS SUPPLY OFF	PRESSURE SWITCH		✓		
FZ-05	SPRINKLER SYSTEM-GROUND FLOOR	FLOW SWITCH	✓	✓	SZ-05	MAIN SPRINKLER CHECK VALVE	TAMPER SWITCH		✓		
FZ-06	SPRINKLER SYSTEM-MEZZANINE	FLOW SWITCH	✓	✓	SZ-06	SPRINKLER SYSTEM-GROUND FLOOR	TAMPER SWITCH		✓		
SPARE	10 NOS.		✓	✓	SZ-07	CDDINKLED CYCTEM LOW DDECCUDE	PRESSURE		✓		
			✓	✓	SZ-08	SPRINKLER SYSTEM-LOW PRESSURE SPRINKLER SYSTEM-	SWITCH TAMPER SWITCH		✓		
			✓	✓	SZ-09	BACK FLOW PREVENTOR-INLET SPRINKLER SYSTEM-			✓		
			✓	✓		BACK FLOW PREVENTOR-OUTLET SPRINKLER SYSTEM-MEZZANINE	TAMPER SWITCH				
					SZ-10		TAMPER SWITCH		✓		
					SPARE	10 NOS.			✓		
				<u> </u> -					✓		
				-							
				-							
					CZ-01	PROVIDE A CONTROL ZONE TO OPERATE RELAYS-R9, R10, R11, R12, R15, R16, R17, R21 & R22 UPON OPERATION OF FIRE ALARM SYSTEM SO AS TO TURN ON ALL LIGHT FIXTURES FED FROM THESE RELAYS.					
				_							
				_							

NOTES:-

- 1. PROVIDE FIRE ALARM GRAPHICS TO BE INSTALLED ADJACENT TO THE LED ANNUNCIATOR IN THE MAIN ENTRANCE.
- 2. 'FZ'- DENOTES FIRE ALARM ZONE
- 3. 'SZ' DENOTES SUPERVISORY ZONE
- 4. 'CZ'- DENOTES CONTROL ZONE
- 5. 'S.D' DENOTES SMOKE DETECTOR
- 6. 'P.S' DENOTES PULL STATION7. 'H.D' DENOTES HEAT DETECTOR
- 8. 'D.S'- DENOTES DUCT SMOKE DETECTOR
- 9. FOR NUMBER AND LOCATION OF DEVICES REFER TO FLOOR PLANS.
- 10. PROVIDE WIRING IN CONDUIT FOR COMPLETE OPERATIONAL SYSTEM
- 11. ALL PULL STATIONS SHALL BE C/W PLASTIC COVERS WITH LOCAL HORN.
- 12. PROVIDE ISOLATORS FOR EVERY ONE TO TWO HOUR RATED FIRE COMPARTMENT.

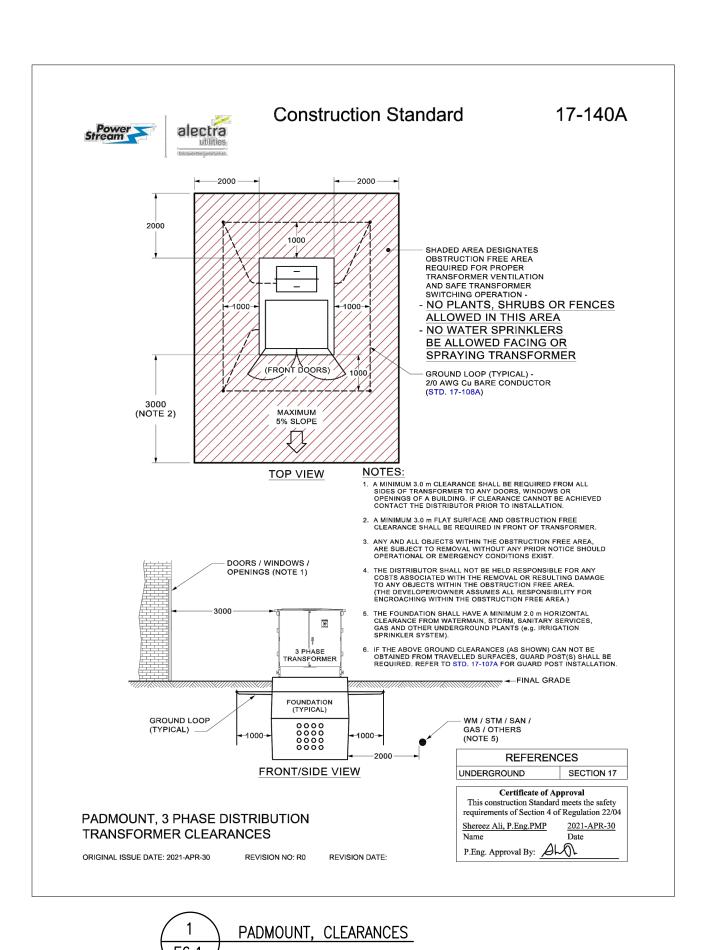
 13. ALL LOOP WIRING FOR INITIATING CIRCUITS SHOULD RUN ON SEPARATE ROUTE INCLUDING
- 13. ALL LOOP WIRING FOR INITIATING CIRCUITS SHOULD RUN ON SEPARATE ROUTE INCLUDING RISER.14. SOUND ALL AUDIBLE SIGNALS AND SHUT DOWN AIR SYSTEM IN CASE OF GENERAL ALARM.
- 15. PROVIDE CONNECTIONS C/W EMT CONDUIT AND WIRING TO ALL FIRE PROTECTION EQUIPMENT AND DEVICES (SPRINKLER SYSTEM) SHOWN ON THE FIRE ALARM ZONE SCHEDULE AS ALARM OR SUPERVISORY ZONE. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATIONS OF DEVICES PRIOR TO ROUGH IN. ALSO COORDINATE WITH SPRINKLER CONTRACTOR FOR ALARM ZONE AREAS BOUNDARIES AND LIMITATIONS AND COMPLY ACCORDINGLY.

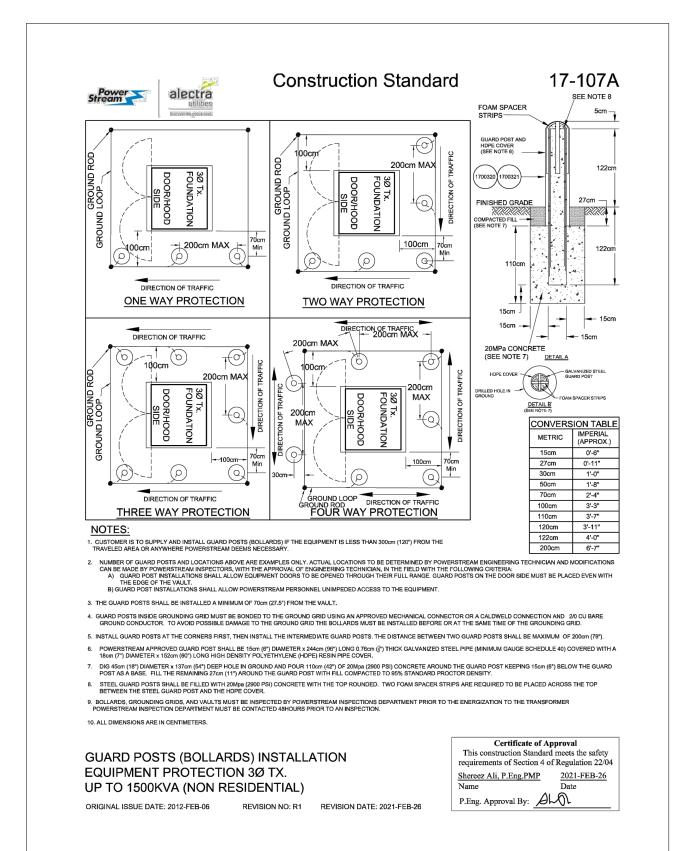


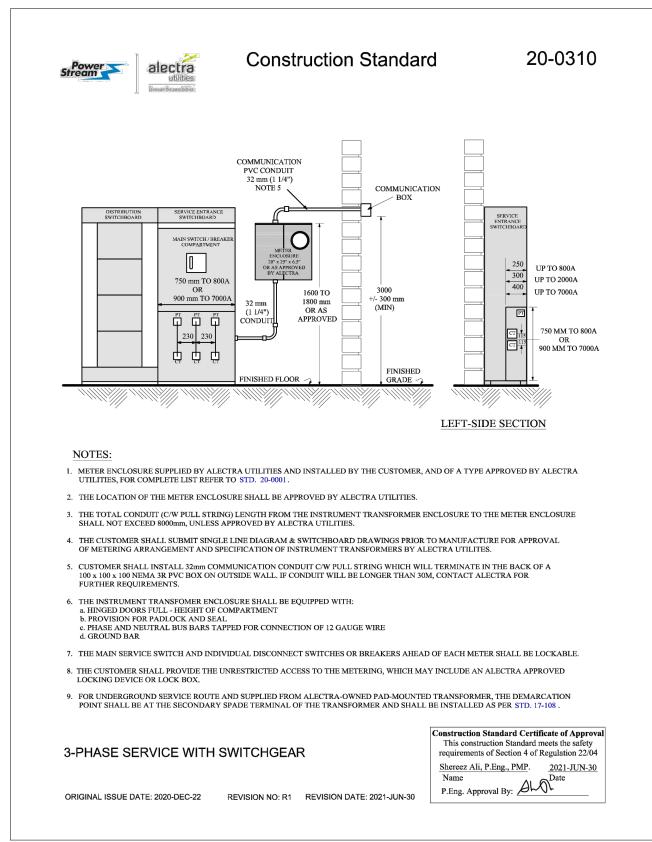


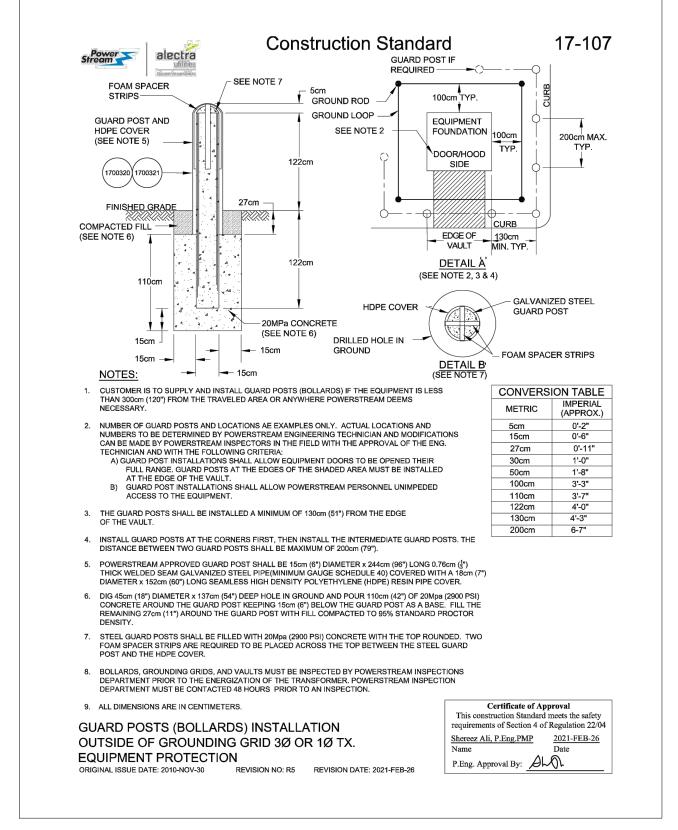
SITY OF VAUGHAN FINAL ATTOM 7-12

CLIENT THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT. MISSISSAUGA, ONTARIO, L5N 6P8 TEL. 905 285 9900, FAX 905 567 5246 Email: mail@jainconsultants.com FIRE ALARM SYSTEM TRUE NORTH CONSTRUCTION NORTH N.T.S. DWG STATUS : PROJECT No. **E6.0**





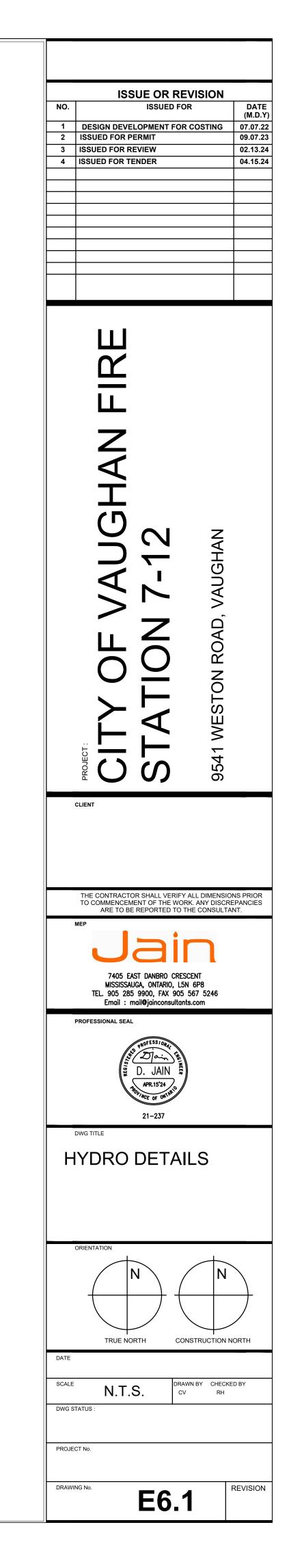






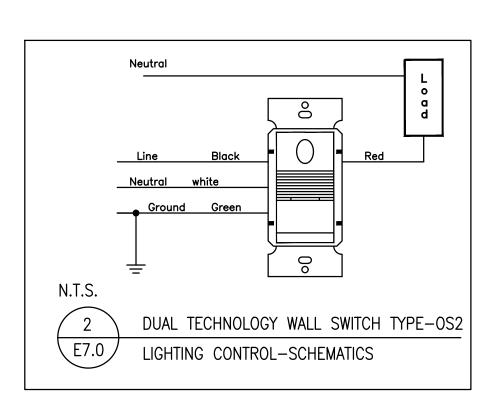
3-PHASE SERVICE WITH SWITCHGEAR

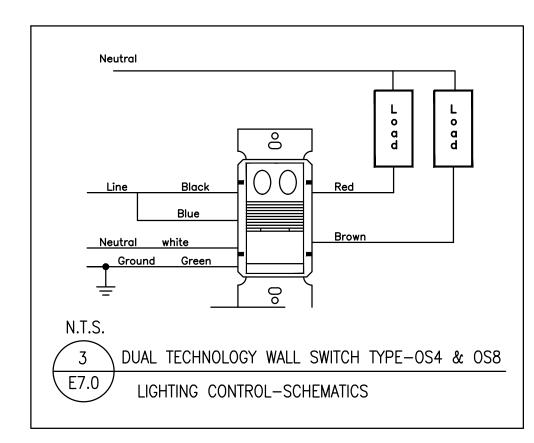


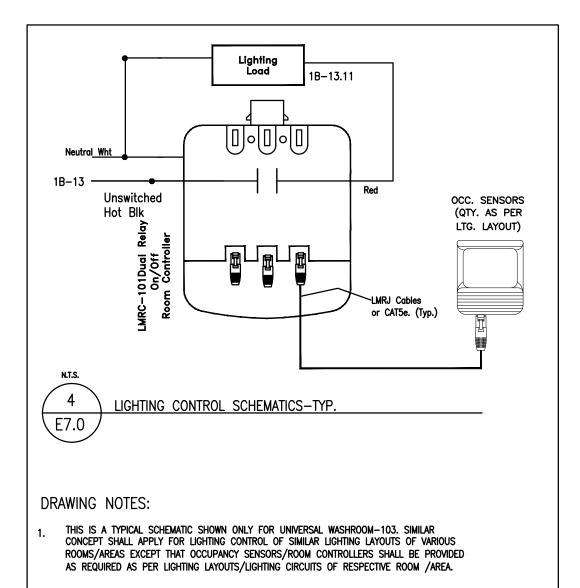


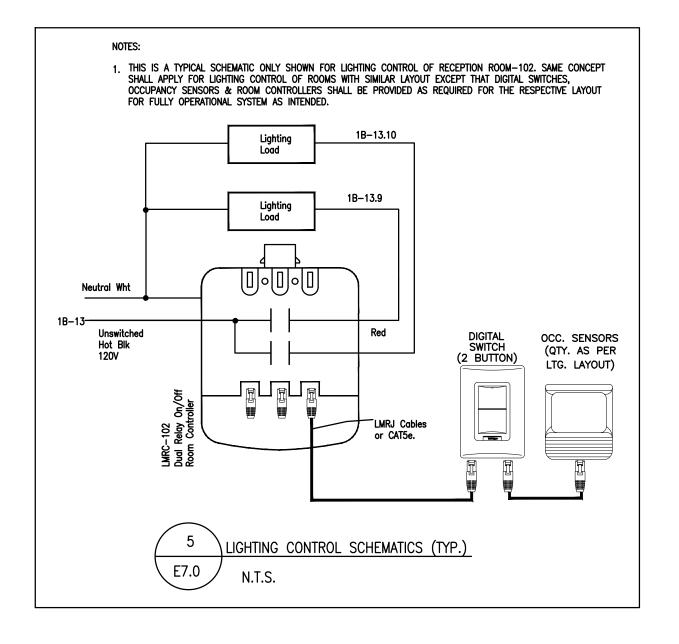


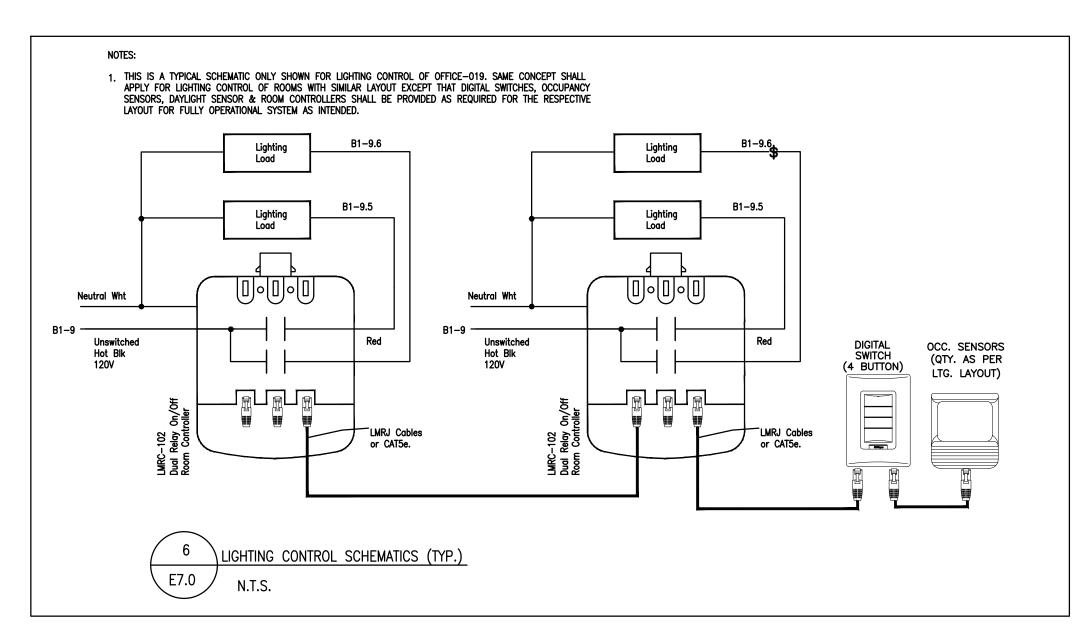


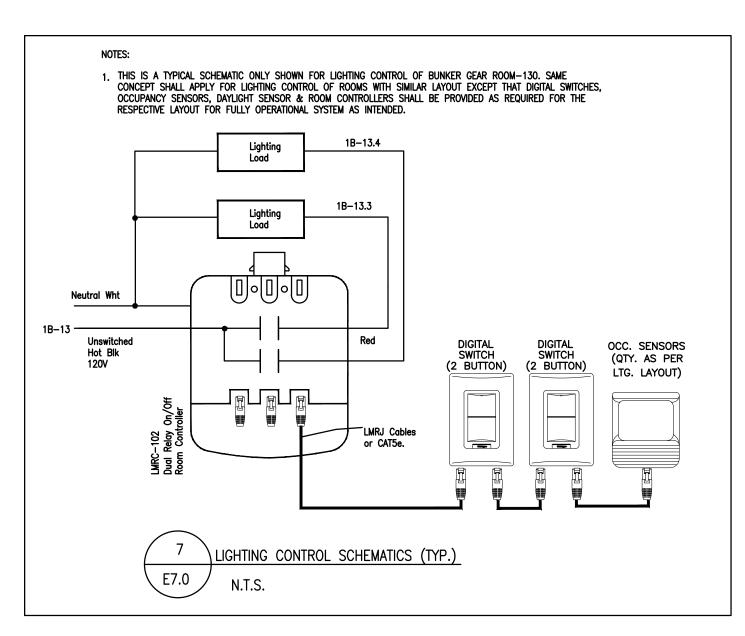








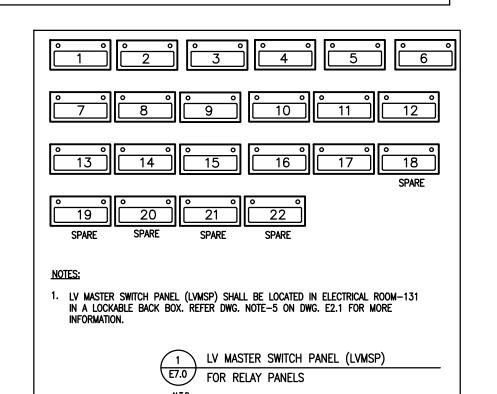


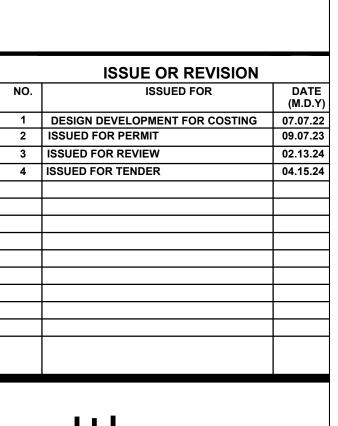


relay Number	AREA SERVED	сст.#	CONTROLLED BY	BUTTON# IN LVMSP	RELAY PANEL
R1(2P)	SITE LIGHTING	1B-5/7	BUTTON#1 OF LVMSP+TIMER+PHOTOCELL	1	R1B
R2(2P)	SITE LIGHTING	1B-5/7	BUTTON#2 OF LVMSP+TIMER+PHOTOCELL	2	R1B
R3	EXTERIOR LIGHTING	1B-9	BUTTON#3 OF LVMSP+TIMER+PHOTOCELL	3	R1B
R4	EXTERIOR LIGHTING	1B-9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

IOTES:

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





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

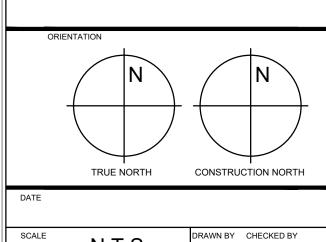
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DWG TITLE

CLIENT

LIGHTING CONTROL SCHEMATICS

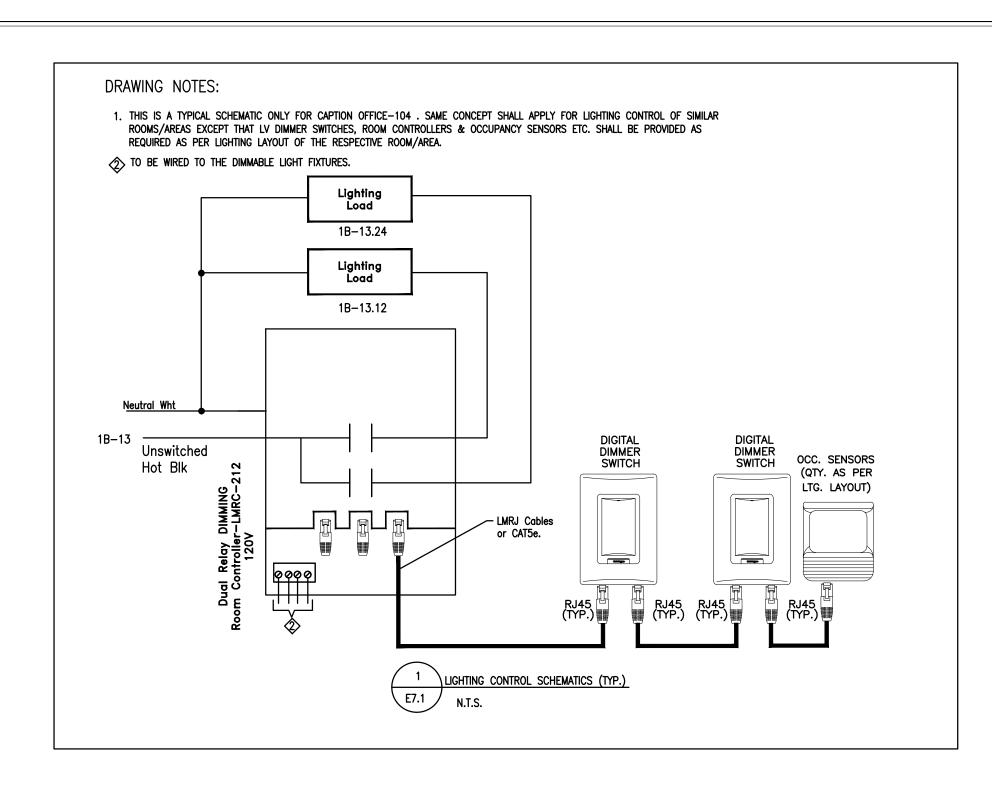


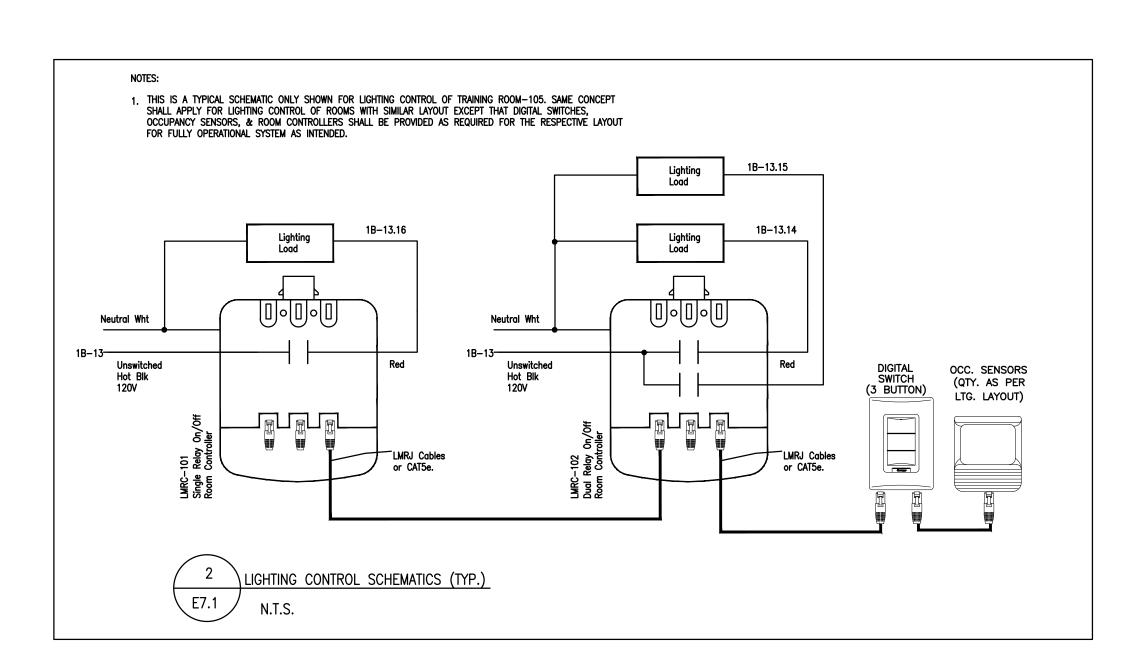
N.T.S. cv

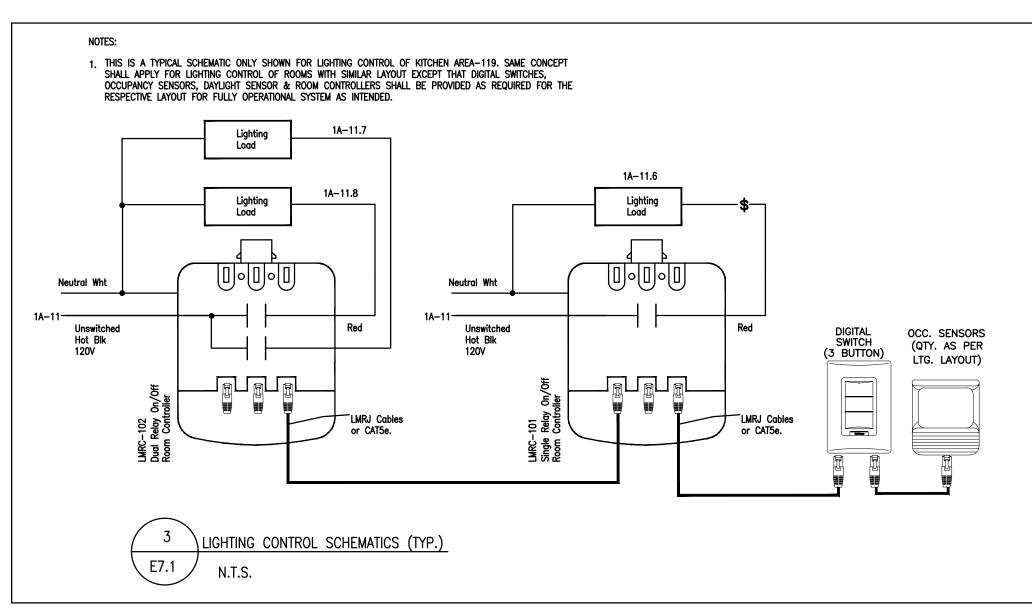
PROJECT No.

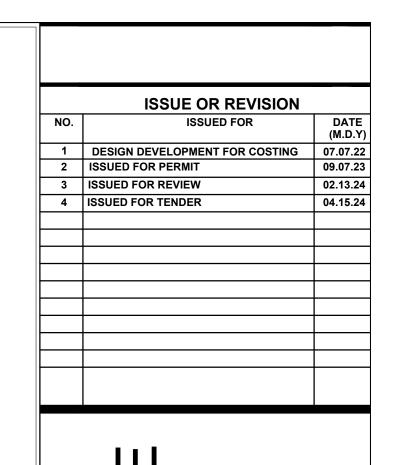
E7.0

REVISION







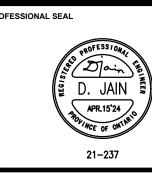


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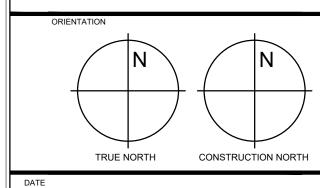
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.





DWG TIT

LIGHTING CONTROL SCHEMATICS (CONTD.)



DATE			
SCALE	N.T.S.	DRAWN BY CV	CHECKED RH
DWG STATUS :			

PROJECT No.

E7.1

REVISION

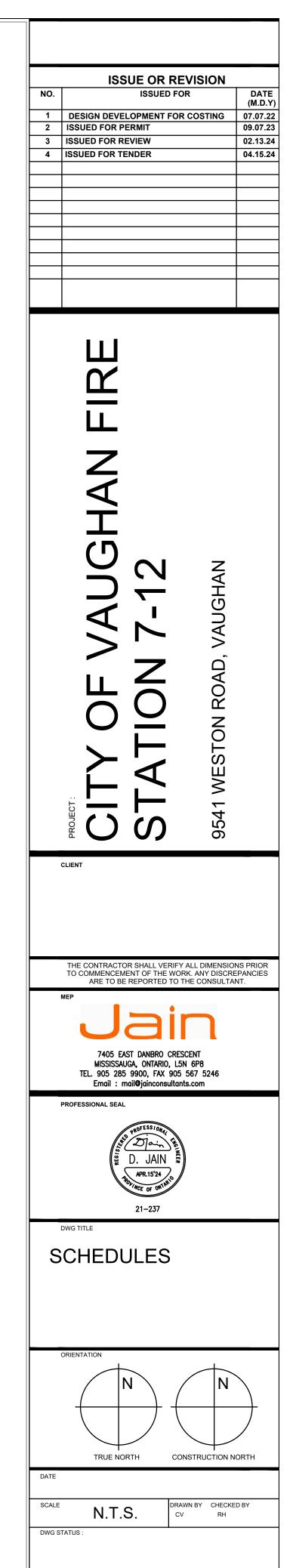
	BRKR	WATT	S PER F	HASE	CIR	BUS	CIR	WATT	S PER P	HASE	BRKR	
DESCRIPTION	SIZE	A	B	C	NO	ABC	NO	A	B	C	SIZE	DESCRIPTION
BATTERY UNIT BU-1	20A	800			1	•	2	100			15A	RELAY PANEL
EXIT LIGHT FIXTURES	15A		100		3	⊢ ♦⊢	4		1100		15A	HEATER
EXTERIOR LIGHTING	20A			400	5	├	6			1100	2P	
NIGHT LIGHTING	20A	300			7	+	8	1100			15A	HEATER
LIGHTING	20A		900		9	├ ┿┤	10		1100		2P	
LIGHTING	20A			900	11	├	12			1000	15A	HEATER
LIGHTING	20A	1100			13	+	14	1500			25A	HEATER
LIGHTING	20A		900		15	+	16		1500		2P	TIENTEN
					17	 	18			200	15A	DOOR OPERATOR
RECEPTACLES	20A	800			19	+ ++	20	200			15A	DOOR OPERATOR
RECEPTACLES	20A		800		21	├ ┿┤	22		100		15A	MOTORIZED DAMPERS
RECEPTACLES	20A			800	23	 	24			800	15A	HEATER
RECEPTACLES	20A	800			25	 	26	600			15A	RECEPTACLES
RECEPTACLES	20A		600		27	├ ┿┤	28		600		15A	RECEPTACLES
TV	15A			800	29	├	30			200	15A	CEILING FAN CF-1
SPARE	20A	600			31	 	32	200			15A	CEILING FAN CF-1
SPARE	20A		600		33	├ ┿┤	34		200		15A	CEILING FAN CF-1
SPARE	20A			200	35	 	36			200	15A	CEILING FAN CF-1
SIALE	2P	200			37	 	38	200			30A	
FIRE ALERT SYSTEM	15A		200		39	├ ┿┤	40		200		3P	O/H DOOR
RECEPTACLES	20A			600	41	_ 	42			200		
RECEPTACLES	20A	600			43	 	44	200			30A	- 4
RECEPTACLES	20A		600		45	++-	46		200		3P	O/H DOOR
RECEPTACLES	20A			600	47	 	48			200	"	
RECEPTACLES	15A	600			49	+ 	50	2000			30A	DRYER
RECEPTACLES	15A		600		51	├ ┿┤	52		2000		2P	
RECEPTACLES	20A			600	53	 	54			600	20A	WASHER
RECEPTACLES	15A	600			55	 	56	600			15A	FRIDGE
RECEPTACLES	15A		600		57	++-	58		1000		20A	MICROWAVE
RECEPTACLES	15A			600	59	⊢	60			600	15A	DISHWASHER

DESCRIPTION	BRKR		S PER F		CIR		US	CIR		S PER P		BRKR	DESCRIPTION
	SIZE	A	В	С	NO	A	BC	NO	A	В	С	SIZE	
RECEPTACLES	15A	600			61	•	\Box	62	3000			40A	RANGE
RECEPTACLES	15A		600		63		+	64		3000		2P	
RECEPTACLES	20A			600	65		 •	66			600	15A	RANGEHOOD
RECEPTACLES	15A	600			67	•	Н	68	600			20A	RECEPTACLES
ELECTRIC STRIKES	15A				69		♦ ┤	70		600		20A	RECEPTACLES
FACP (3#12+GRD21mmC)	15A			100	71	\vdash	 	72			600	20A	RECEPTACLES
	2P	100			73	┝	Н	74	600			20A	RECEPTACLES
FIRE ALARM MONITORING PANEL (FMP)	15A		100		75	\vdash	♦ ┤	76		100		15A	SPARE
TRAP SEAL PRIMERS	15A *			100	77	\vdash	╀┿	78			100	15A	SPARE
ELECTRONIC FAUCETS	15A *	100			79	•	H	80	100			15A	GEN. ANNUNCIATOR PANEL
SPARE	15A				81	\vdash	┿┤	82		600		20A	RECEPTACLES
SPARE	15A				83	\vdash	┿	84			800	60A	
SPARE	15A				85	┝	Н	86	800			3P	GENERATOR PANEL
SPARE	15A				87	\vdash	♦ ┤	88		800] "	
SPARE	15A				89	⊢	┾	90				20A	SPARE
SPARE	15A				91	∳ -	H	92				20A	SPARE
SPARE	15A				93	⊢	♦ ┤	94				20A	SPARE
SPARE	15A				95	⊢	 →	96				20A	SPARE
SPARE	15A				97	∳ -	Н	98				20A	SPARE
SPARE	15A				99	⊢	♦ ┤	100				20A	SPARE
SPARE	15A *				101	⊢	┾	102				20A	SPARE
EXH. FAN HEF-1	15A	300			103	┢	Н	104				20A	SPARE
EXH. FAN EF-2	15A		100		105	⊢	♦ ┤	106				20A	SPARE
EXH. FAN EF-4	15A			100	107	 	 →	108				20A	SPARE
EXH. FAN EF-6	15A	200			109	 	Н	110	1000			50A	EXH. FAN EF-5
EXH. FAN EF-11	15A		100		111	⊢	∳ ┤	112		1000		2P	LAIL IAN EF-3
					113	\vdash	┿	114					
					115	 	H	116					
					117	⊢	∳ ⊢	118					
					119	L	┷	120					
* -DENOTES 'GFI' TYPE OF BREAKER		8200	5800	6200		TOT	ALS		11800	13100	7200		
					2000	0 18	900 1	3400				_	120/208
52.3 kW CONNEC		DAD							•				120/208 VOLTS
161.3 A TOTAL A	MPS			FLU	SH		X	LU	GS				MAIN
ELECT. RM131 LOCATIO			<	URFA		_		-	EAKEF	2			120/2 CCTS/TUBS

DESCRIPTION	BRKR		s per f		CIR		BUS		CIR		S PER P		BRKR	DESCRIPTION
	SIZE	A	В	С	NO .	_	ABC		NO	A	В	С	SIZE	
BATTERY UNIT BU-2	20A	800			1	•	Т	٦ ا	2	100			15A	RELAY PANEL
EXIT LIGHT FIXTURES	15A		100	400	3	┌	1	71	4		1100	4400	15A 2P	HEATER
site lighting	20A 2P	400		100	5	Γ		7	6	4700		1100	15A	LIFATED
EVERNO LIQUENO		100	000		7	T	T	71	8	1300	500		15A	HEATER HEATER
EXTERIOR LIGHTING	20A		800	200	9	Г	T	71	10		500	1500		
NIGHT LIGHTING LIGHTING	20A 20A	1000		200	11	Γ			12	1500		1500	25A 2P	HEATER
LIGHTING	20A 20A	1000	800		13 15	I	T		14	1500	500		15A	HEATER
RECEPTACLES	20A 20A		000	600	17		1	11	16 18		300	800	15A	HEATER
RECEPTACLES	20A	600		000	19	I		JI	20	500		800	15A	HEATER
TV	15A	000	600		21	L			22	300	1500		25A	
RECEPTACLES	15A		550	600	23		1	╽	24		1300	1500	25A 2P	HEATER
RECEPTACLES	15A	600		300	25			<u> </u>	26	1100		,550	15A	HEATER
RECEPTACLES	15A	- 555	600		27	L		41	28	. 100	1100		2P	HEATER
RECEPTACLES	15A		- 000	600	29	L	l	┛	30		1100	200	15A	DOOR OPERATOR
RECEPTACLES	15A	600		"	31	1	4		32	200		200	15A	DOOR OPERATOR
RECEPTACLES	15A		600		33	L	4	41	34	200	200		15A	DOOR OPERATOR
RECEPTACLES	15A			600	35	L	1	┛	36			2000	30A	DRYER
RECEPTACLES	15A	600			37	1	4	41	38	2000			2P	DRIER
RECEPTACLES	15A		600		39	L		41	40		600		20A	WASHER
RECEPTACLES	15A			600	41	L	4	ا∳	42			100	15A	PA SYSTEM
EXCESS PRESSURE PUMP	15A	200			43	┢	+	41	44	600			20A	RECEPTACLES
HEATER	15A		1000		45	ŀ	4	41	46		600		20A	RECEPTACLES
SPARE	15A				47	ŀ	+	-∳	48			100	15A *	ELECTRONIC FAUCETS/PLUMBING FIXTURES
SPARE	15A				49	•	-	41	50	800			20A	RECEPTACLES
SPARE	15A				51	ŀ	+	41	52		800		20A	RECEPTACLES
SPARE	15A				53	⊦	+	-∳	54			800	20A	RECEPTACLES
SPARE	15A				55	•	+	41	56	800			20A	RECEPTACLES
SPARE	15A				57	H	+	-	58		800		20A	RECEPTACLES
SPARE	15A				59	⊦	+	•	60			100	15A	ELECTRIC STRIKES
SPARE	15A				61	•	+	 	62	100			15A	INDICATION
SPARE	15A *				63	H	+	┥╽	64		800		15A	RECEPTACLES
HEATER	15A			1000	65	ŀ	+	→	66			800	20A	RECEPTACLES
SPARE	20A				67	•	+	- 	68	100			15A	EXH. FAN EF-1
SPARE	20A				69	╟	+	- 	70		100		15A	EMERGENCY CALL BOX
SPARE	20A				71	H	+	+	72				15A	SPARE
SPARE	20A				73	•	+	┤ │	74	100			15A	EXH. FAN EF-7
SPARE	20A				75	╽┞	4	- 	76		100		15A	EXH. FAN EF-8
SPARE	20A				77		+	•	78			100	15A	EXH. FAN EF-9
SPARE	20A				79	•	+	┪1	80				15A	SPARE
SPARE	20A				81	ı	•	1	82				15A	SPARE
* -Denotes 'Gfi' type of Breaker	20A	4300	4100	3300	83	TO	OTALS	• }	84	9200	9600	100	15A *	TRAP SEAL PRIMERS
44.51.11					1350				4300				J	120/208 VOLTS
41.5kW CONNECT	ED LO	DAD												400
128.0A TOTAL AM				FLU:	CII [LU	~~				MAIN

DESCRIPTION	BRKR	WATT	s per p	HASE	CIR	BUS	CIR	WATT	s per p	HASE	BRKR	DESCRIPTION
	SIZE	A	В	ပ	NO .	ABC	NO P	A	В	C	SIZE	
LIGHTING	20A	400	000		1	T] 2	1000	1000		15A 2P	HEATER
NIGHT LIGHTING	20A 20A		200	600	3		6		1000	1000		
BATTERY UNIT BU-3 EXIT LIGHTS	15A	100		600	5 7		T 8	1000		1000	15A 2P	HEATER
EAII LIGHIS	15A	100	1000		9		I ——	1000	100		15A	MOTORIZED DAMPERS
HOT WATER TANK HWT-1	3P		1000	1000	11		10		100	800	15A	RECEPTACLES
HOT WALLY TANK THE T	5	1000		1000	13		1 12	800		000	15A	RECEPTACLES
		1000	1000		15		16	000	100		15A	EXH. FAN EF-3
HOT WATER TANK HWT-2	15A		1000	1000	17		18		100	700		LAII. IAN LI -0
HOI WALLY IMIN HWI-Z	3P	1000		1000	19		20	700			25A	PUMP P-1
	20A	1000			21		22	700	700		3P	
UPS	2P				23	\sqcup	24		700	700		
RE-CIRC. PUMP	15A	200			25		26	700			25A	PUMP P-2
BMS SYSTEM	15A				27		28		700		3P	
FIRE ALERT SYSTEM	15A				29	\vdash	30			500	20A	DIMD D 7
DOOR ACCESS PANEL	15A				31	-	32	500			2P	PUMP P-3
SECURITY PANEL	15A				33		34		500		20A	DIMP D 4
RECEPTACLES	20A				35	\vdash	36			500	2P	PUMP P-4
RECEPTACLES	20A				37	+ +-	38				20A	SPARE
SPARE	15A				39	+	40				20A	SPARE
SPARE	15A				41	\vdash	42				20A	SPARE
SPARE	15A				43	+ +-	44				20A	SPARE
SPARE	15A				45	+	46				20A	SPARE
SPARE	15A				47	\vdash	48				20A	SPARE
SPARE	15A				49	+ +	50				20A	SPARE
SPARE	15A				51	+	52				20A	SPARE
SPARE	15A				53	\vdash	54				20A	SPARE
SPARE	15A				55	+	56				20A	SPARE
SPARE	15A				57	+	58					
SPARE	15A *				59	Щ.	60					
* -DENOTES 'GFI' TYPE OF BREAKER	•	3700	3200	3600		TOTALS		4700	3100	4200		
22.5 kW CONNECT		\ D			8400	6300	7800					120/208 VOLTS
		JAU			_	_						225
69.4 A TOTAL AN				FLU:	SH [X LU	GS				MAIN
MECH. RM143 LOCATION			9	URFA	CE [7	BR	EAKER	5			60/1 CCTS/TUBS

DESCRIPTION	BRKR SIZE	WATT A	S PER F	PHASE I C	CIR NO	BUS ABC	CIR NO	WATT	S PER P	HASE C	BRKR SIZE	DESCRIPTION
DUCT COIL HC-1	15A	500	_	Ů	1	1	2	400	_	Ů	15A	HEAT PUMP HP-1
	2P 15A		500	700	3 5		6		400	400	2P 15A	
DUCT COIL HC-2	2P	700		700	7	\blacksquare	8	400		400	2P	HEAT PUMP HP—2
	15A		800		9	 -	10		1000		15A	HEAT PUMP HP-3
DUCT COIL HC-3	3P			800	11	H	12	400		1000	2P	
	15A	800	500		13 15		14	400	400		15A 2P	HEAT PUMP HP-4
DUCT COIL HC-4	2P		300	500	17	\square	18		100	1000	15A	
	004	1000			19	\downarrow	20	1000			2P	HEAT PUMP HP-5
DUCT COIL HC-5	20A 3P		1000		21	+	22		400		15A	HEAT PUMP HP-6
				1000	23	H	24			400	2P	TIENT TOWN THE O
DUCT COIL HC-6	15A 2P	1000	4000		25	•	26	1000	4000		15A	HEAT PUMP HP-7
	ZF		1000	1000	27		28		1000	400	2P 15A	
	20A	1000		1000	29 31		32	400		+00	2P	HEAT PUMP HP-8
DUCT COIL HC-7	3P	1000	1000		33		34	100	1000		15A	
DUCT COIL HC-8	15A			500	35	\vdash	36			1000	2P	HEAT PUMP HP-9
	2P	500			37	+ +	38	1000			15A	HEAT PUMP HP-10
	15A		800		39	+	40		1000		2P	TIENT TOWN THE TO
DUCT COIL HC-9	3P			800	41	H	42	400		400	15A 2P	HEAT PUMP HP-11
		800	800		43 45		44	400	600		15A	
DUCT COIL HC-10	15A		000	800	47		48		000	600	2P	HEAT PUMP HP-12
	3P	800			49	\downarrow	50				15A	
SPARE	15A				51	+	52				2P	SPARE
	2P				53	++	54				20A	SPARE
					55	†	56				2P	OI FIRE
DUCT COIL HC-12	15A 2P		500	500	57	1	58				15A	CDADE
	15A			500	59 61		60				3P	SPARE
SPARE	2P				63		64					
SPARE	15A				65	\square	66				20A 3P	SPARE
STAIL	2P				67	+	68				JF	
SPARE	15A				69	+	70				20A	SPARE
	2P				71	H	72				20A	SPARE
SPARE	15A 2P				73		74				20A	SPARE
	15A				75 77		76 78				15A 15A	SPARE SPARE
SPARE	2P				79		80				15A	SPARE
SPARE	15A				81	+	82					
	2P				83	Щ	84					
* -DENOTES 'GFI' TYPE OF BREAKER		9100	8400	8600		TOTALS		5000	5800	5200		
42.2kW CONNE	OTER 1.1		•		14200	14200	13800		ē		•	120/208 VOLTS
42.2kW CONNE	CLED FO	DAD										400 MAIN



PROJECT No.

REVISION

E7.2

MECHANICAL EQUIPMENT WIRING SCHEDULE									
EQUIPMENT & LABEL	STARTER LOCATION		PHASE	VOLTAGE	STARTER TYPE	BREAKER SIZE	FEEDER SIZE	PANEL AND CCT. NOS.	REMARKS
HEAT RECOVERY UNIT HRU-1	ON UNIT	MCA 74.2	П	208	INTEGRAL	100A,3P	3#3+GRD41mmC	DP-AA	PROVIDE WEATHERPROOF 100A/80AF-3P FUSIBLE DISCONNECT SWITCH AT THE UNIT C/W LABEL SAYING MAX FUSES TO BE 80A
HEAT PUMP HP(W)-1	MECH.RM. -143	MCA 43.0	3	208	INTEGRAL	60A,3P	3#6+GRD35mmC	DP-AA	THE SIMI OF IT BEET GIVING MAN POSES TO BE SON.
exh. Fan hef—1	MECH.RM. -143	AMP. 2.0	1	120	INTEGRAL	15A,1P	2#12+GRD16mmC	1A-103	
EXH. FAN EF-1	SPKL.RM. -132	WATTS 79	1	120	MAGNETIC	15A,1P	2#12+GRD16mmC	1B-68	
EXH. FAN EF-2	ELECT.RM. -133	WATTS 47	1	120	MANUAL	15A,1P	2#12+GRD16mmC	1A-105	
EXH. FAN EF-3	MECH.RM. -200	WATTS 79	1	120	MAGNETIC	15A,1P	2#12+GRD16mmC	2A-16	
EXH. FAN EF-4	JAN.RM. -127	WATTS 50	1	120	MAGNETIC	15A,1P	2#12+GRD16mmC	1A-107	
EXH. FAN EF-5		KW 2.0		208	MAGNETIC	50A,2P	2#8+GRD27mmC	1A-110/112	PROVIDE WEATHERPROOF 60A/45AF-3P FUSIBLE DISCONNECT SWITCH TO CONTROL POWER TO THE UNIT C/W LABEL SAYING MAX FUSES TO BE 45A
EXH. FAN EF-6	HOSE TOWER -134	WATTS 187	Ľ	120	MAGNETIC	15A,1P	2#12+GRD16mmC	1A-109	
EXH. FAN EF-7	BUNKER GEAR -130	47	Ľ	120	MAGNETIC	15A,1P	2#12+GRD16mmC	1B-7 4	
EXH. FAN EF-8	BUNKER GEAR -131	108	Ľ	120	MAGNETIC	15A,1P	2#12+GRD16mmC	1B-76	
EXH. FAN EF-9	GARBAGE.RM. -136	WATTS 52	1	120	MAGNETIC	15A,1P	2#12+GRD16mmC	1B-78	
EXH. FAN EF-10	APPARATUS -129	HP 4.0	L	208		30A,3P	3#10+GRD27mmC	DP-AA	PROVIDE WEATHERPROOF 30A-3P FUSIBLE DISCONNECT SWITCH (C/W FUSES TO SUIT) TO CONTROL POWER TO THE UNIT.
EXH. FAN EF-11	-120	4/	Ľ	120	MAGNETIC	15A,1P	2#12+GRD16mmC	1A-111	
CEILING FAN CF-1	APPARATUS -129	WATTS 157	Ľ	120	MANUAL	15A,1P	2#12+GRD16mmC	1A-30	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
CEILING FAN CF-2	APPARATUS -129	WATTS 157	Ľ	120	MANUAL	15A,1P	2#12+GRD16mmC	1A-32	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
CEILING FAN CF-3	APPARATUS -129	WATTS 157	Ľ	120	MANUAL	15A,1P	2#12+GRD16mmC	1A-34	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
CEILING FAN CF-4	APPARATUS -129	WATTS 157	1	120	MANUAL	15A,1P	2#12+GRD16mmC	1A-36	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
PUMP P-1	MECH.RM. -200	HP 3.0	3	208	MAGNETIC	25A,3P	3#10+GRD21mmC	2A-18/20/22	
PUMP P-2	MECH.RM. -200	HP 3.0	3	208	MAGNETIC	25A,3P	3#10+GRD21mmC	2A-24/26/28	
PUMP P-3	MECH.RM. -200	HP 1.0	1	208	MAGNETIC	20A,2P	2#12+GRD16mmC	2A-30/32	
PUMP P-4	MECH.RM. -200	HP 1.0 MCA	1	208	MAGNETIC	20A,2P	2#12+GRD16mmC	2A-34/36	
HUMIDIFIER HU-1		51.9 KW	3	208	INTEGRAL	70A,3P	3#4+GRD35mmC	DP-AA	PROVIDE 100A-3P FUSIBLE DISCONNECT SWITCH (C/W FUSES TO SUIT) TO CONTROL POWER TO THE UNIT.
ELECTRIC DUCT COIL HC-1		1.0 KW	1	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-1/3	
ELECTRIC DUCT COIL HC-2		1.3 KW	1	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-5/7	
ELECTRIC DUCT COIL HC-3		2.5 KW	3	208		15A,3P	3#12+GRD21mmC	1M-9/11/13	
ELECTRIC DUCT COIL HC-4		1.0 KW	H	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-15/17	
ELECTRIC DUCT COIL HC-5		4.5 KW	H	208	INTEGRAL	20A,3P	3#12+GRD21mmC	1M-19/21/23	
ELECTRIC DUCT COIL HC-6		1.0 KW	\vdash	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-25/27	
ELECTRIC DUCT COIL HC-7		4.5 KW	┞	208		20A,3P	3#12+GRD21mmC	1M-29/31/33	
ELECTRIC DUCT COIL HC-8		1.0 KW	\vdash	208			2#12+GRD16mmC	1M-35/37 1M-39/41/43	
ELECTRIC DUCT COIL HC-9		2.4 KW	H	208	INTEGRAL		3#12+GRD21mmC	1M-39/41/43 1M-45/47/49	
ELECTRIC DUCT COIL HC-10		2.4 KW	H	208	INTEGRAL	15A,3P	3#12+GRD21mmC	1M-45/4//49 1M-57/59	
ELECTRIC DUCT COIL HC-11		1.0	<u> </u>	208	INTEGRAL	15A,2P	2#12+GRD16mmC	IM=3//38	
			\vdash						
			H						
			H						
			H						
			H						

NOTES

- 1. PROVIDE POWER CONNECTION TO ALL EQUIPEMENTS LISTED IN THE SCHEDULE. REFER TO ELECTRICAL AND MECHANICAL LAYOUTS FOR EXACT LOCATION OF
- 2. PROVIDE SEPARATE BREAKER FOR INDIVIDUAL MECHANICAL EQUIPEMENT. SIZE AS INDICATED IN THE SCHEDULE.
- 3. PROVIDE LOCAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENTS AS REQUIRED BY OESC.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING TO & FROM STARTERS/VFD'S (STARTERS/VFD'S SUPPLIED BY MECH. CONTRACTOR & INSTALLED BY ELECTRICAL CONTRACTOR) TO MECHANICAL EQUIPMENTS.
- 5. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND SHALL COORDINATE FOR MECHANICAL EQUIPMENT LOCATIONS, STARTERS LOCATIONS AND BREAKERS SIZES & WIRES WITH THE MECHANICAL CONTRACTOR & CONSULTANT PRIOR TO ROUGH—IN.
- 6. LOCATIONS OF THE EQUIPMENT STARTERS SHALL BE NEXT TO THE LIGHT SWITCH IN FINISHED ROOMS AND NEXT TO EQUIPMENT IN THE SERVICE ROOMS
- UNLESS OTHERWISE NOTED.
- 8. REFER TO MECHANICAL EQUIPMENT STARTER AND ELECTRICAL DATA SCHEDULES IN MECHANICAL DRAWING FOR ELECTRICAL CONTRACTOR'S SCOPE OF WORK.

7. LOCATIONS OF BOILERS AND HOT WATER HEATERS DISCONNECT SWITCHES SHALL BE NEXT TO THE ENTRANCE DOOR OF THE MECHNICAL ROOM.

- 9. RESERVED.
- 10. LOCATION OF ON/OFF SWITCH'S, THERMOSTATS AND SPEED CONTROLLER SWITCH'S SHALL BE VERIFIED ON SITE WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
- 11. PROVIDE POWER CONNECTION TO ALL REVERSE ACTING THERMOSTATS AND SPEED CONTROLLER SWITCHES AND FEED FROM RESPECTIVE CIRCUITS FEEDING REPECTIVE MECHANICAL EQUIPMENT WHICH SHALL BE CONTROLLED VIA THE REVERSE ACTING THERMOSTATS AND SPEED CONTROLLERS. LOCATIONS OF DEVICES SHALL BE WITHIN THE SAME ARE SERVED BY THE RSPECTIVE MECHANICAL EQUIPMENT. COORDINATE ON SITE FOR FOR DEVICE LOCATIONS WITH ARCHITECT AND CONSULTANT PRIOR TO ROUGH IN.
- 12. COORDINATE BREAKER SIZE FOR SPECIAL EQUIPMENT SUCH AS MECHANICAL EQUIPMENT, KITCHEN APPLIANCES, ELEVATOR ETC. BASED ON SELECTED MAKE, MODEL AND ELECTRICAL DATA. BOTH CONTRACTOR AND SUPPLIER/MANUFACTURER SHALL MAKE ALLOWANCE FOR VARIATION IN RATING TO TWO (2) SIZE HIGHER OR LOWER THAN SPECIFIED & RESPECTIVE VARIATION/REVISION OF FEEDER SIZES AT NO EXTRA COST.

MECHANICAL EQUIPMENT WIRING SCHEDULE									
UNIT									
EQUIPMENT & LABEL	STARTER LOCATION		PHASE	VOLTAGE	starter Type	Breaker Size	FEEDER SIZE	PANEL AND CCT. NOS.	REMARKS
HEAT PUMP HP-1	ON UNIT	MCA 4.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-2/4	
HEAT PUMP HP-2	ON UNIT	MCA 5.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-6/8	
HEAT PUMP HP-3	ON UNIT	MCA 11.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-10/12	
HEAT PUMP HP-4	ON UNIT	MCA 4.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-14/16	
HEAT PUMP HP-5	ON UNIT	MCA 11.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-18/20	
HEAT PUMP HP-6	ON UNIT	MCA 5.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-22/24	
HEAT PUMP HP-7	ON UNIT	MCA 11.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-26/28	
HEAT PUMP HP-8	ON UNIT	MCA 5.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-30/32	
HEAT PUMP HP-9	ON UNIT	MCA 11.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-34/36	
HEAT PUMP HP-10	ON UNIT	MCA 11.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-38/40	
HEAT PUMP HP-11	ON UNIT	MCA 5.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-42/44	
HEAT PUMP HP-12	ON UNIT	MCA 7.0	1 2	208	INTEGRAL	15A,2P	2#12+GRD16mmC	1M-46/48	
UNIT HEATER UH—1	ON UNIT	KW 25.0	3 2	208		100A,3P	3#3+GRD41mmC	DP-AA	
UNIT HEATER UH—2	ON UNIT		3 2	208		100A,3P	3#3+GRD41mmC	DP-AA	
hot water tank hwt-1	MECH.RM. -200	3.0	3 2	208	MANUAL	15A,3P	3#12+GRD21mmC	2A-9/11/13	PROVIDE LOCKABLE DISCONNECT SWITCH NEAR THE ENTRANCE DOOR OF THE ROOM
HOT WATER TANK HWT-2	MECH.RM. -200	3.0	3 2	208	MANUAL	15A,3P	3#12+GRD21mmC	2A-15/17/19	PROVIDE LOCKABLE DISCONNECT SWITCH NEAR THE ENTRANCE DOOR OF THE ROOM
RE-CIRC. PUMP FOR HWT-1 & HWT-2	MECH.RM. -200	HP 1/4	1 1	120	MANUAL	15A,1P	2#12+GRD16mmC	2A-25	
EXCESS PRESSURE PUMP	SPKL.RM. -132	HP 1/4	1 1	120	MAGNETIC	15A,1P	2#12+GRD16mmC	1B-43	
NOTES									

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- 2. PROVIDE SEPARATE BREAKER FOR INDIVIDUAL MECHANICAL EQUIPEMENT. SIZE AS INDICATED IN THE SCHEDULE.
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- 10. LOCATION OF ON/OFF SWITCH'S, THERMOSTATS AND SPEED CONTROLLER SWITCH'S SHALL BE VERIFIED ON SITE WITH THE MECHANICAL CONTRACTOR PRIOR TO
- 11. PROVIDE POWER CONNECTION TO ALL REVERSE ACTING THERMOSTATS AND SPEED CONTROLLER SWITCHES AND FEED FROM RESPECTIVE CIRCUITS FEEDING REPECTIVE MECHANICAL EQUIPMENT WHICH SHALL BE CONTROLLED VIA THE REVERSE ACTING THERMOSTATS AND SPEED CONTROLLERS. LOCATIONS OF DEVICES SHALL BE WITHIN THE SAME ARE SERVED BY THE RSPECTIVE MECHANICAL EQUIPMENT. COORDINATE ON SITE FOR FOR DEVICE LOCATIONS WITH ARCHITECT AND CONSULTANT PRIOR TO ROUGH IN.
- 12. COORDINATE BREAKER SIZE FOR SPECIAL EQUIPMENT SUCH AS MECHANICAL EQUIPMENT, KITCHEN APPLIANCES, ELEVATOR ETC. BASED ON SELECTED MAKE, MODEL AND ELECTRICAL DATA. BOTH CONTRACTOR AND SUPPLIER/MANUFACTURER SHALL MAKE ALLOWANCE FOR VARIATION IN RATING TO TWO (2) SIZE HIGHER OR LOWER THAN SPECIFIED & RESPECTIVE VARIATION/REVISION OF FEEDER SIZES AT NO EXTRA COST.

	ISSUE OR REVISION	
NO.	ISSUED FOR	DATI (M.D.)
1	DESIGN DEVELOPMENT FOR COSTING	07.07.2
2	ISSUED FOR PERMIT	09.07.2
3	ISSUED FOR REVIEW	02.13.2
4	ISSUED FOR TENDER	04.15.2

TY OF VAUGHAN FIR ATION 7-12

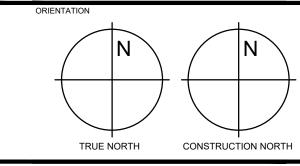
CLIEN

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





SCHEDULES (CONTD.)

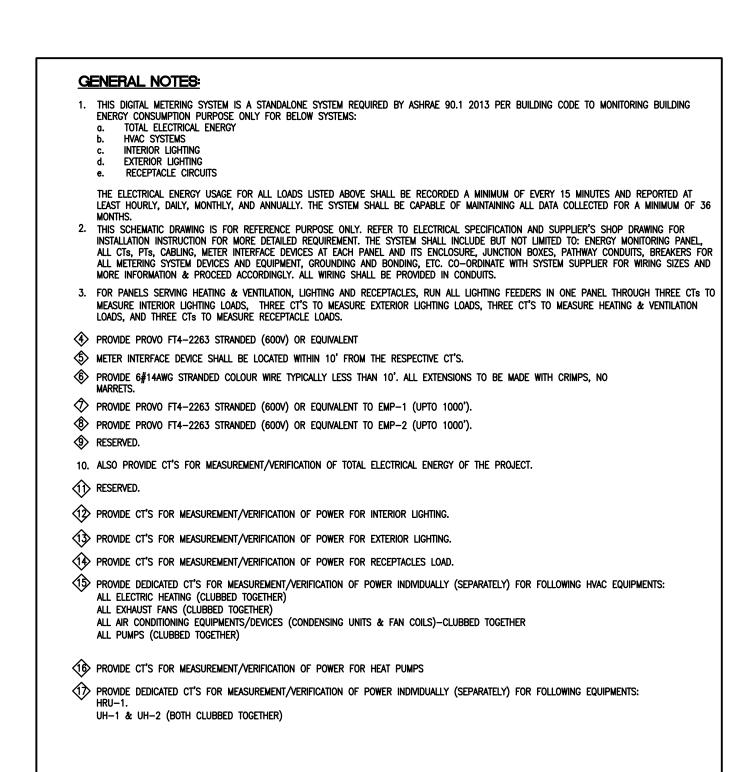


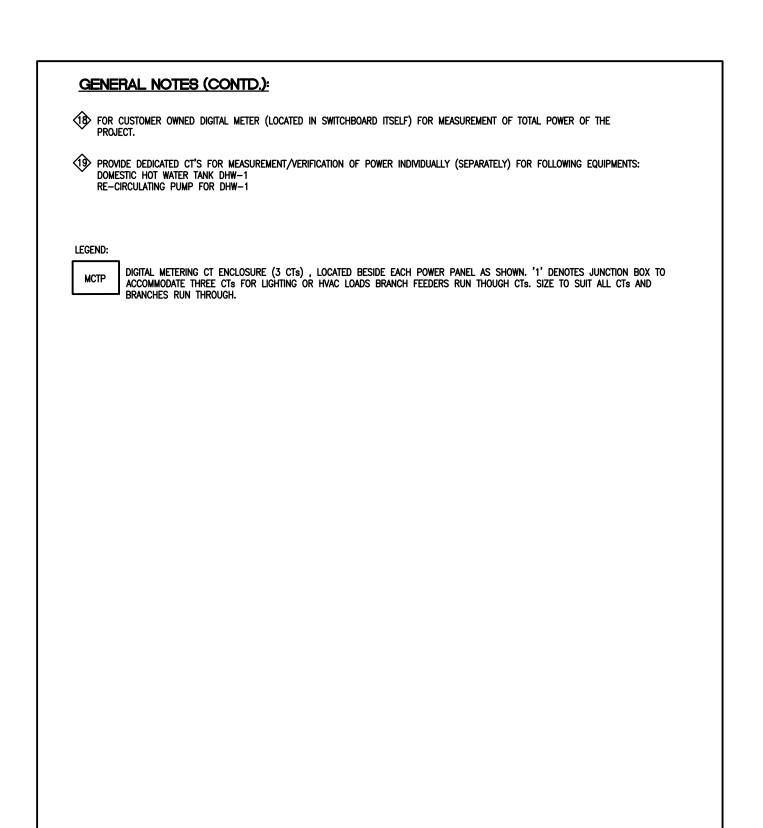
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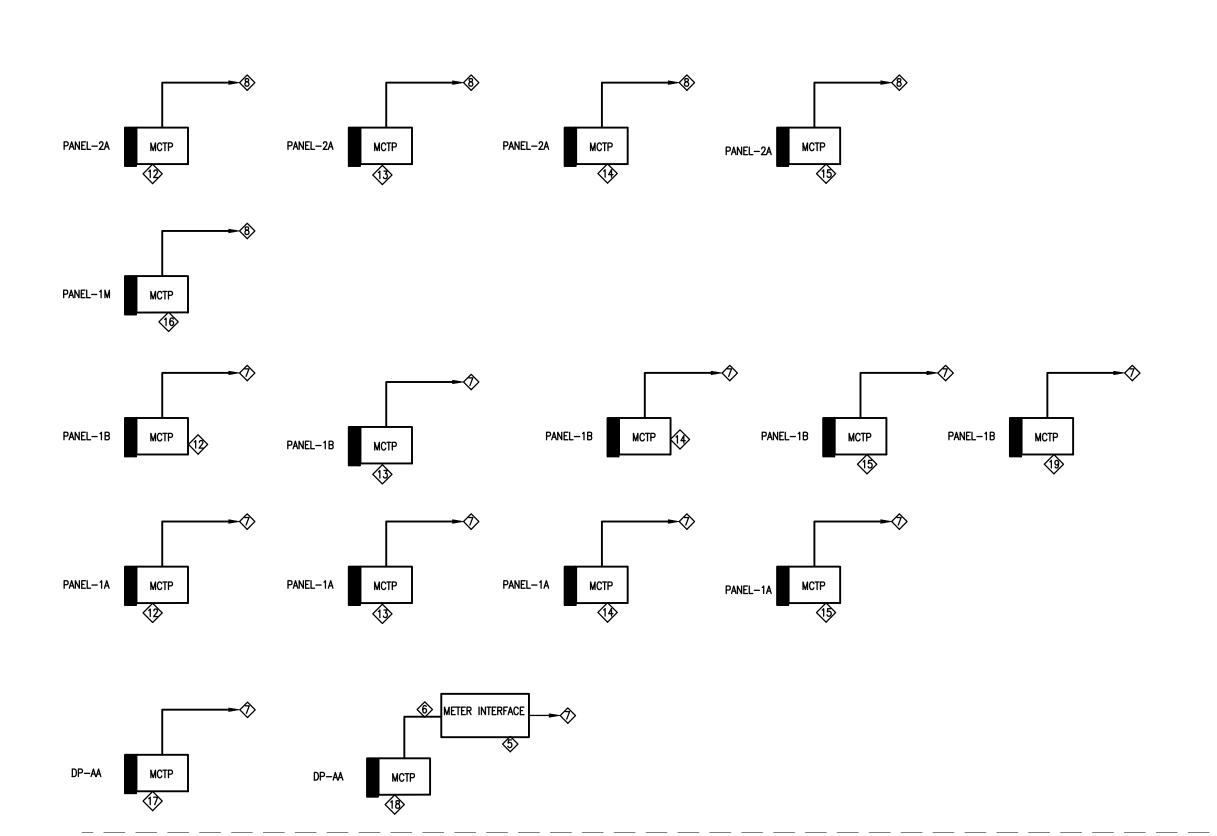
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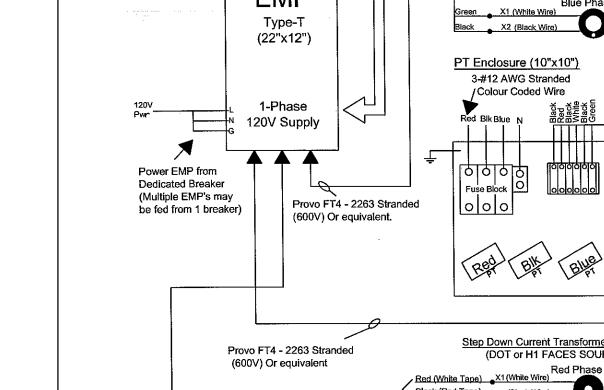
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E8.0









GROUND FLOOR

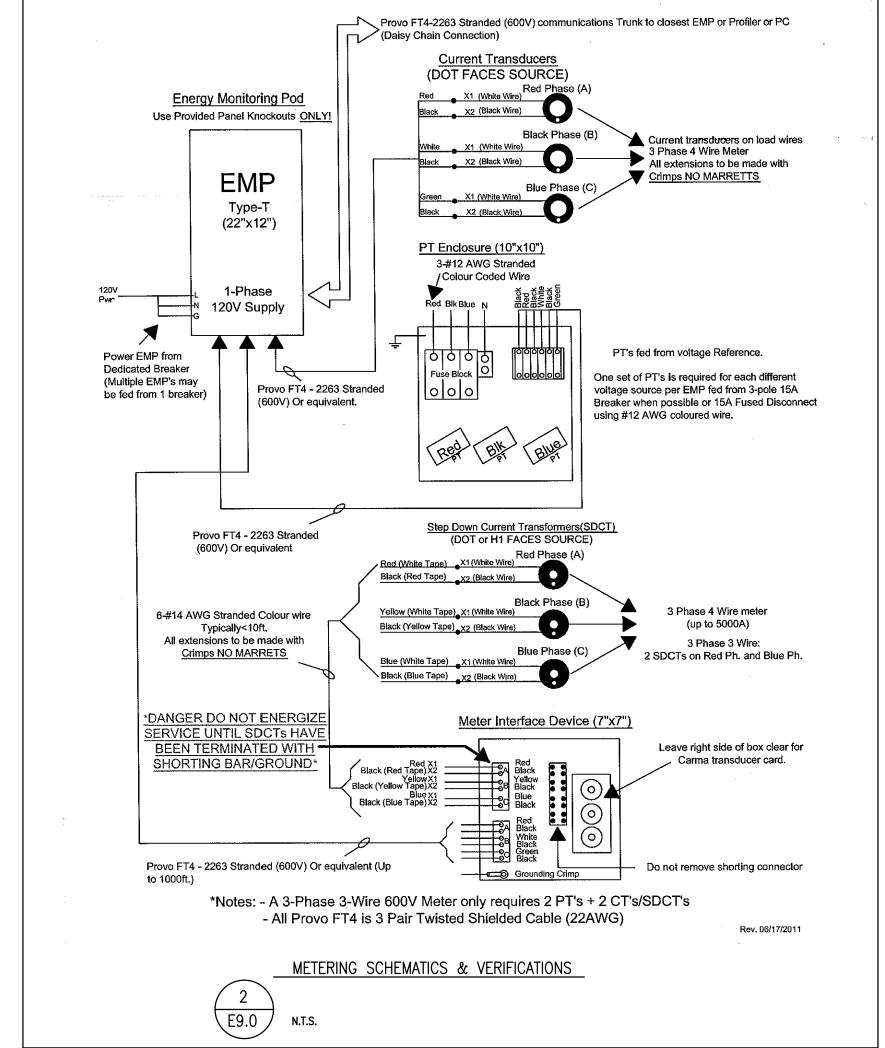
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MONITORING SYSTEM MAIN

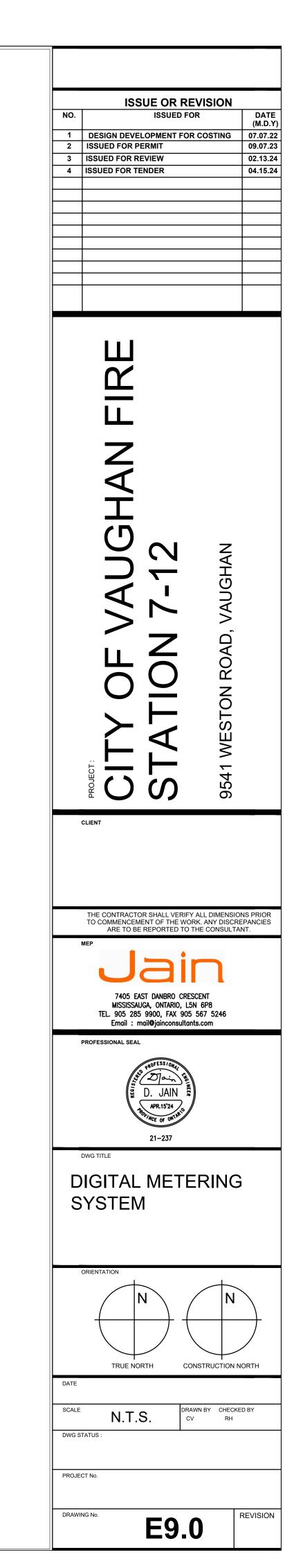
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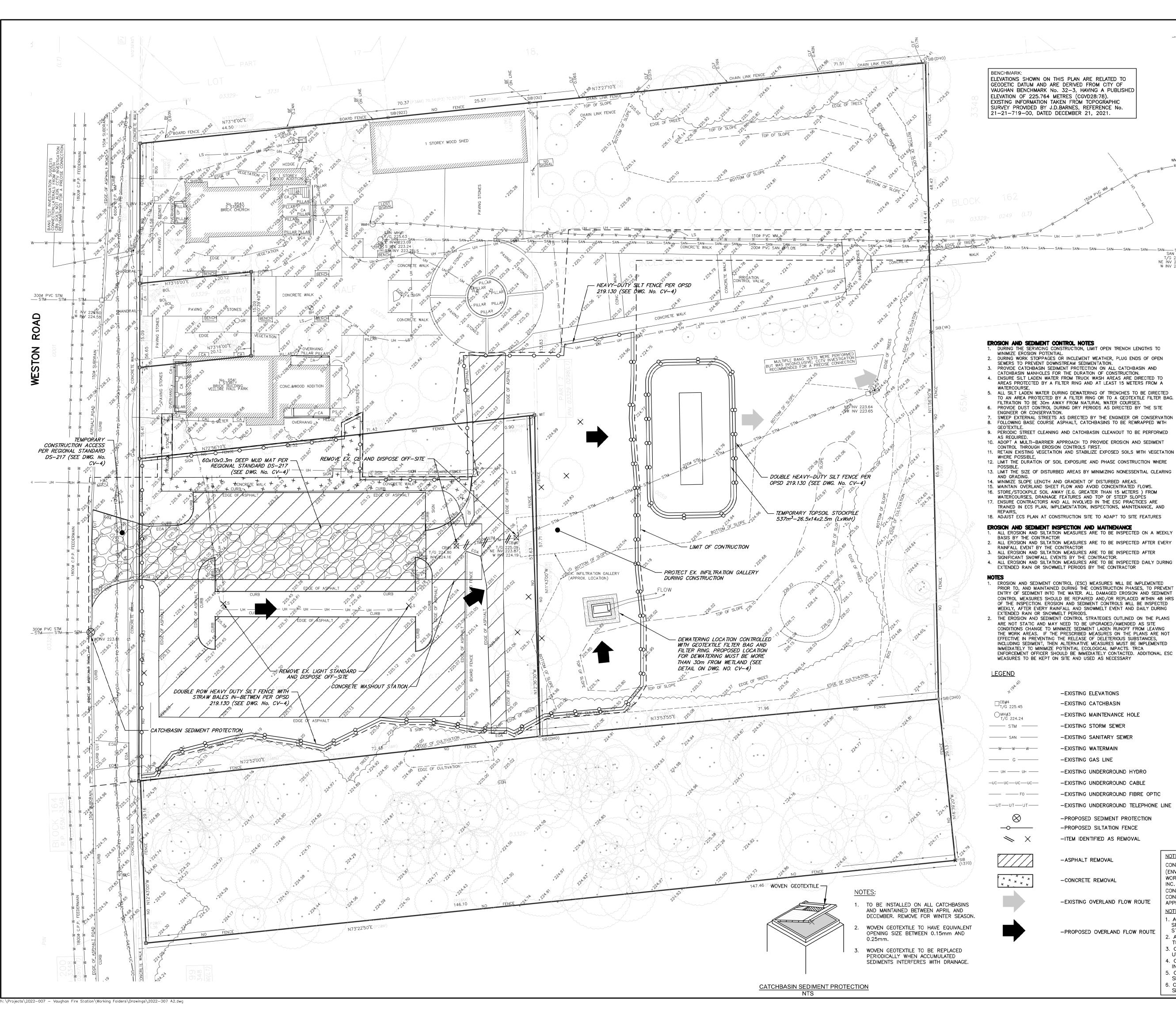
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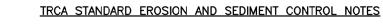




Carma Industries Typical Metering Configuration







- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. (ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
- DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES. 3. ALL IN-WATER AND NEAR-WATER WORKS WILL BE CONDUCTED
- IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS. 4. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE
- UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT ARE NOT EFFECTIVE AT PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY
- AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS IMMEDIATELY AFTER INSTALLATION INSPECTION OF ESC MEASURES TO BE WILL OCCUR, AT MINIMUM: ON A WEEKLY BASIS; PRIOR TO SIGNIFICANT RAINFALL EVENTS (MINIMUM PREDICTED 25mm OVER 24 HOURS); AFTER EVERY RAINFALL/SNOWMELT EVENT; AND DAILY DURING EXTENDED RAINFALL EVENTS. INSPECTIONS WILL FOCUS ON MEASURES RELATED TO EROSION AND SEDIMENT CONTROLS, DEWATERING OR UNWATERING, RESTORATION AND IN- OR NEAR- WATER WORKS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR WILL CONTACT THE TRCA
- ENFORCEMENT OFFICER AS WELL AS THE PROPONENT. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
- ALL GRADES WITHIN THE REGULATORY FLOOD PLAIN WILL BE MAINTAINED OR MATCHED. THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER
- SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AND UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G. FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS,
- 9. ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
- 10. ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS PERMITTED BY TRCA. 11. PRIOR TO SITE DISTURBANCE THE CONTRACTOR/PROPONENT SHOULD ENSURE THAT THE WORKS ARE IN CONFORMANCE WITH THE MIGRATORY BIRDS CONVENTION ACT. PLEASE NOTE THAT THE GENERAL BREEDING BIRD TIMING WINDOW FOR THIS AREA IS APRIL
 1ST TO AUGUST 31ST, HOWEVER, BREEDING ACTIVITIES MIGHT INITIATE PRIOR TO AND CONTINUE PAST THIS PERIOD.
- 12. WHERE IMPACTS TO LOCAL FISH POPULATIONS MAY OCCUR DURING THEIR SPAWNING, NURSERY AND MIGRATORY PERIODS, CONSTRUCTION TIMING WINDOWS SHOULD APPLY TO IN-WATER OR NEAR-WATER ACTIVITIES. THE PROPONENT/CONTRACTOR SHOULD CONFIRM APPLICABILITY AND DATES WITH APPROPRIATE PROVINCIAL AND FEDERAL AGENCIES.
- 13. FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA AND UNDER THE SUPERVISION OF QUALIFIED AQUATIC TECHNICAL STAFF. THE PROPONENT/CONTRACTOR SHOULD CONFIRM REQUIREMENTS DIRECTLY WITH THE MINISTRY OF NATURAL
- RESOURCES AND FORESTRY. 14. PLEASE NOTIFY TRCA ENFORCEMENT OFFICER (PAUL NOWAK.
- 416-881-2473), AND TRCA PROJECT MANAGER (KRISTEN SULLIVAN 437-880-2424) 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. 15. AN ENVIRONMENTAL MONITOR WILL BE ON SITE, AND PROVIDE ADVICE, O ENSURE THAT ACTIVITIES THAT COULD HAVE A NEGATIVE IMPACT TO THE NATURAL ENVIRONMENT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. THE ENVIRONMENTAL MONITOR SHALL NOTIFY THE TRCA ENFORCEMENT OFFICER AND PROJECT MANAGER IF

SERVICING.

-CONCRETE REMOVAL

-EXISTING OVERLAND FLOW ROUTE

1. ALL WORK TO CONFORM TO THE LATEST MUNICIPAL STANDARDS AND SPECIFICATIONS AS WELL AS THE LATEST ADOPTED ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS. -PROPOSED OVERLAND FLOW ROUTE

ISSUES ARISE.

APPROVED DESIGN PRIOR TO CONSTRUCTION.

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

CONTRACTOR TO INVITE REGION'S CONSTRUCTION INSPECTION STAFF FROM (ENVassestapprovals@york.ca) TO PRE-CONSTRUCTION MEETING FOR ANY

WORKS WITH 2 WEEKS NOTICE. CONTRACTOR TO CONTACT MGM CONSULTING

INC. IMMEDIATELY SHOULD THERE BE ANY CONFLICTS BETWEEN EXISTING

CONDITIONS AND PROPOSED GRADING AND/OR SERVICING DESIGN, OR CONFLICTS IN CONSTRUCTING THE WORK AS PER THE INTENT OF THE

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

<u>Laurelhurst Cr</u> aurelhurst Cr KEYMAP - NTS

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

ISSUE OR REVISION

ISSUED FOR SPA 05/27/22 ISSUED FOR SPA RESUBMISSION 06/12/23

CONSULTING INC

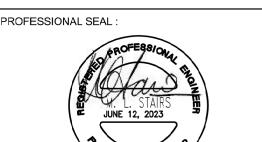
Consulting Engineering & Project Management

L9T 5E1

555 Industrial Drive

Suite 201

Milton, Ontario



Tel: (905)567-8678

Fax: (905)875-1339

Email: mgm@mgm.on.ca

SEDIMENT & EROSION CONTROL & **REMOVALS PLAN**

Fax: 416.364.4662

DATE:

DRAWING No

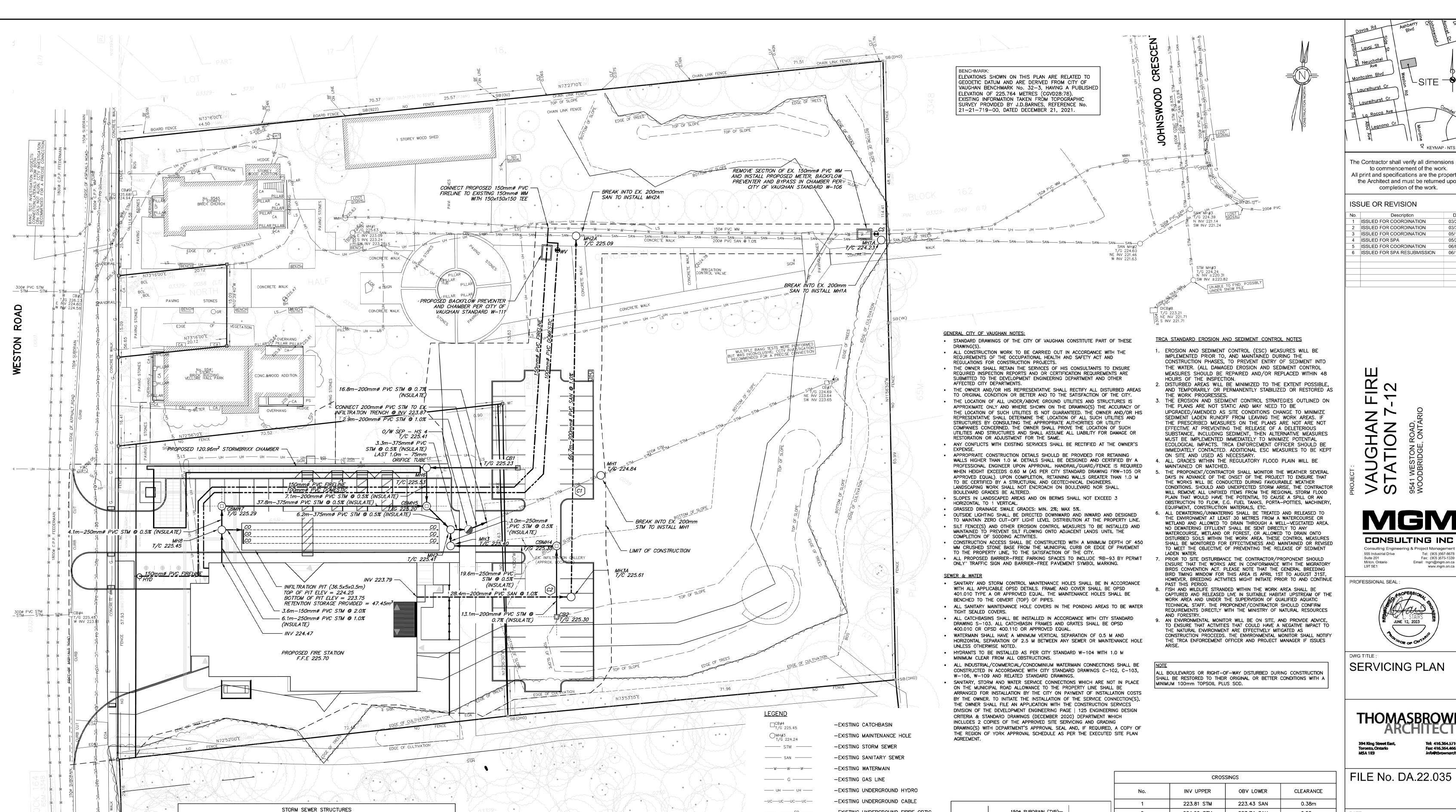
FILE No. DA.22.035

MAR 2022 1:300

DRAWN BY AB CHECKED BY DESIGNED BY:

AB DWG STATUS: ISSUED FOR SPA

PROJECT No. 2022-007



I INVERT I	
S 224.30	
N 224.32	
SW 223.80 NE 223.79	
NW 224.02 S 224.02 E 223.97	STF
N 224.03 E 224.08	
S 224.23 W 224.18	
N 224.10 SE 224.05 W 224.10	
S 224.13 E 224.18 W 224.23	

S 224.34

S 224.41

SANITARY SEWER STRUCTURES						
STRUCTURE	OPSD STRUCTURE STANDARD	OPSD/GRATE COVER STANDARD	RIM	INVERT		
MH1A	701.010	401.010	224.23	W 222.11 E 222.10		
MH2A	701.010	401.010	225.34	S 222.76 W 222.68 E 222.67		
мнза	701.010	401.010	225.61	S 223.43 W 223.51		
O/W SEP	HL 4		225.41	NE 223.90 W 223.95		

-EXISTING UNDERGROUND FIBRE OPTIC -EXISTING UNDERGROUND TELEPHONE LINE

□ *CB1 T/G 225.23* -PROPOSED CATCHBASIN -PROPOSED CATCHBASIN

□ _{CBMH6} T/G 225.29 MAINTENACE HOLE MH7 T/C 225.45

— FO —

—UT—UT—UT—

⊗ wv

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-PROPOSED MAINTENACE HOLE 0/W SEP T/C 225.41

-PROPOSED OIL/GRIT SEPARATOR -PROPOSED WATER VALVE

-PROPOSED STORM SEWER

-PROPOSED SUBDRAIN (SEE

-PROPOSED WATERMAIN

DETAIL THIS SHEET)

-PROPOSED CURB STOP -PROPOSED SANITARY SEWER

WRAPPED IN GEOTEXTILE 270R SUB-DRAIN DETAIL

SUBDRAIN CONNECTIONS INSTALLED AS SHOWN ON SUBDRAIN DETAIL SUBDRAIN CONNECTION DETAIL
TO CB'S AND CBMH'S - 100mmø PERFORATED SUB-DRAIN WITH FILTER SOCK

BOTTOM & SIDES

OF SUB-DRAIN

PROPOSED CB

150ø SUBDRAIN (TYP)-

PROPOSED CBMH

ALL CB AND CBMH STRUCTURES IN PAVED AREAS TO HAVE

SERVICING.

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

1. ALL WORK TO CONFORM TO THE LATEST MUNICIPAL STANDARDS AND SPECIFICATIONS AS WELL AS THE LATEST ADOPTED ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.

223.74 SAN

0.55m

UTILITIES PRIOR TO AND DURING CONSTRUCTION . 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

. CONTRACTOR TO CONFIRM ALL EXISTING INVERTS PRIOR TO INTERNAL

. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES AND

<u>Laurelhurst Cr</u> aurelhurst Cr KEYMAP - NTS

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

ISSUE OR REVISION

DE ORTREVIOION	
Description	Date
SSUED FOR COORDINATION	03/21/22
SSUED FOR COORDINATION	03/31/22
SSUED FOR COORDINATION	05/18/22
SSUED FOR SPA	05/27/22
SSUED FOR COORDINATION	06/06/23
SSUED FOR SPA RESUBMISSION	06/12/23



Tel: (905)567-8678

Fax: (905)875-1339

Email: mgm@mgm.on.ca

SERVICING PLAN

Fax: 416.364.4662

FILE No. DA.22.035

DATE: MAR 2022 1:300

DRAWN BY AB CHECKED BY DESIGNED BY: AB

DWG STATUS: ISSUED FOR SPA

PROJECT No.

2022-007

N: \Projects\2022-007 - Vaughan Fire Station\Working Folders\Drawings\2022-007 A1.dwg

* INSTALL CB/CBMH SHIELD - SEE CV-4 FOR DETAILS

OPSD STRUCTURE OPSD/GRATE COVER

STANDARD

400.010

400.010

401.010

401.010

400.010

400.010

400.010

401.010

400.010

STANDARD

705.010

705.010

701.010

701.010

701.010

701.010

701.010

701.010

701.010

RIM

225.23

225.30

224.84

225.41

225.40

225.35

225.20

225.40

225.29

225.45

STRUCTURE

CB1*

CB2*

MH1

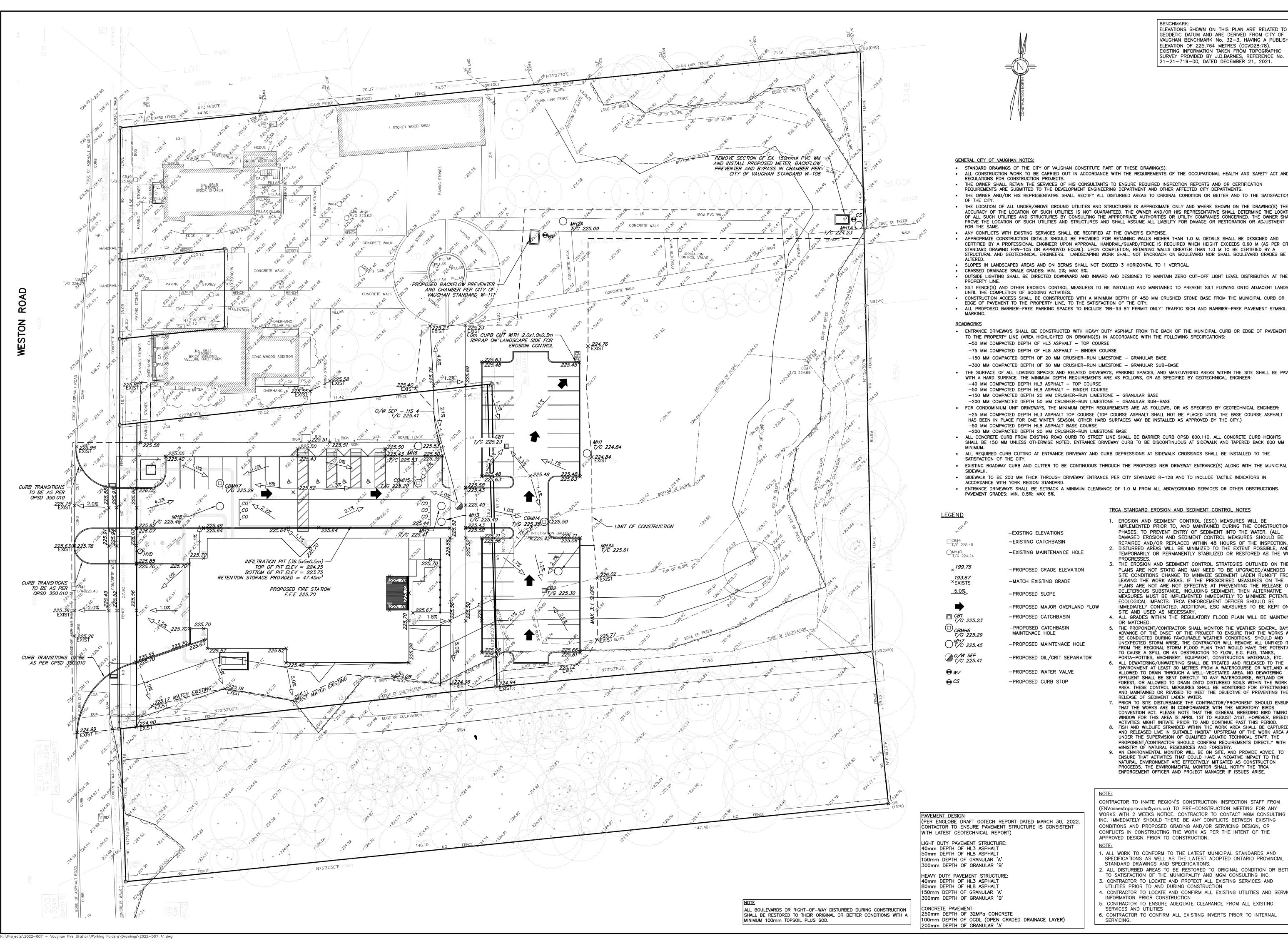
CBMH4*

CBMH5*

CBMH7*

224.29 STM

. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER TO SATISFACTION OF THE MUNICIPALITY AND MGM CONSULTING INC.



ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM CITY OF VAUGHAN BENCHMARK No. 32-3, HAVING A PUBLISHED ELEVATION OF 225.764 METRES (CGVD28:78). EXISTING INFORMATION TAKEN FROM TOPOGRAPHIC SURVEY PROVIDED BY J.D.BARNES, REFERENCE No. 21-21-719-00, DATED DECEMBER 21, 2021.

GENERAL CITY OF VAUGHAN NOTES:

- STANDARD DRAWINGS OF THE CITY OF VAUGHAN CONSTITUTE PART OF THESE DRAWING(S). ALL CONSTRUCTION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND
- REGULATIONS FOR CONSTRUCTION PROJECTS. • THE OWNER SHALL RETAIN THE SERVICES OF HIS CONSULTANTS TO ENSURE REQUIRED INSPECTION REPORTS AND OR CERTIFICATION REQUIREMENTS ARE SUBMITTED TO THE DEVELOPMENT ENGINEERING DEPARTMENT AND OTHER AFFECTED CITY DEPARTMENTS.
- THE OWNER AND/OR HIS REPRESENTATIVE SHALL RECTIFY ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION • THE LOCATION OF ALL UNDER/ABOVE GROUND UTILITIES AND STRUCTURES IS APPROXIMATE ONLY AND WHERE SHOWN ON THE DRAWING(S) THE ACCURACY OF THE LOCATION OF SUCH UTILITIES IS NOT GUARANTEED. THE OWNER AND/OR HIS REPRESENTATIVE SHALL DETERMINE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES BY CONSULTING THE APPROPRIATE AUTHORITIES OR UTILITY COMPANIES CONCERNED. THE OWNER SHALL
- ANY CONFLICTS WITH EXISTING SERVICES SHALL BE RECTIFIED AT THE OWNER'S EXPENSE. • APPROPRIATE CONSTRUCTION DETAILS SHOULD BE PROVIDED FOR RETAINING WALLS HIGHER THAN 1.0 M. DETAILS SHALL BE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER UPON APPROVAL. HANDRAIL/GUARD/FENCE IS REQUIRED WHEN HEIGHT EXCEEDS 0.60 M (AS PER CITY STANDARD DRAWING FRW-105 OR APPROVED EQUAL). UPON COMPLETION, RETAINING WALLS GREATER THAN 1.0 M TO BE CERTIFIED BY A STRUCTURAL AND GEOTECHNICAL ENGINEERS. LANDSCAPING WORK SHALL NOT ENCROACH ON BOULEVARD NOR SHALL BOULEVARD GRADES BE
- SLOPES IN LANDSCAPED AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
- OUTSIDE LIGHTING SHALL BE DIRECTED DOWNWARD AND INWARD AND DESIGNED TO MAINTAIN ZERO CUT-OFF LIGHT LEVEL DISTRIBUTION AT THE
- SILT FENCE(S) AND OTHER EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED TO PREVENT SILT FLOWING ONTO ADJACENT LANDS UNTIL THE COMPLETION OF SODDING ACTIVITIES. CONSTRUCTION ACCESS SHALL BE CONSTRUCTED WITH A MINIMUM DEPTH OF 450 MM CRUSHED STONE BASE FROM THE MUNICIPAL CURB OR
- EDGE OF PAVEMENT TO THE PROPERTY LINE, TO THE SATISFACTION OF THE CITY. ALL PROPOSED BARRIER-FREE PARKING SPACES TO INCLUDE "RB-93 BY PERMIT ONLY" TRAFFIC SIGN AND BARRIER-FREE PAVEMENT SYMBOL
- ENTRANCE DRIVEWAYS SHALL BE CONSTRUCTED WITH HEAVY DUTY ASPHALT FROM THE BACK OF THE MUNICIPAL CURB OR EDGE OF PAVEMENT. TO THE PROPERTY LINE (AREA HIGHLIGHTED ON DRAWING(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS: -50 MM COMPACTED DEPTH OF HL3 ASPHALT - TOP COURSE
- -75 MM COMPACTED DEPTH OF HL8 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 LOADING 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 HL3 ASPHALT TOP COURSE -50 MM COMPACTED DEPTH HL8 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 HL3 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 HL8 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
- ALL REQUIRED CURB CUTTING AT ENTRANCE DRIVEWAY AND CURB DEPRESSIONS AT SIDEWALK CROSSINGS SHALL BE INSTALLED TO THE
- . EXISTING ROADWAY CURB AND GUTTER TO BE CONTINUOUS THROUGH THE PROPOSED NEW DRIVEWAY ENTRANCE(S) ALONG WITH THE MUNICIPAL
- 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

-EXISTING MAINTENANCE HOLE

-EXISTING ELEVATIONS -EXISTING CATCHBASIN

-PROPOSED GRADE ELEVATION -MATCH EXISTING GRADE

-PROPOSED SLOPE -PROPOSED MAJOR OVERLAND FLOW -PROPOSED CATCHBASIN

-PROPOSED CATCHBASIN MAINTENACE HOLE -PROPOSED MAINTENACE HOLE

-PROPOSED OIL/GRIT SEPARATOR -PROPOSED WATER VALVE

-PROPOSED CURB STOP

1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE

TRCA STANDARD EROSION AND SEDIMENT CONTROL NOTES

- IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. (ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE
- REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION. 2. DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK
- PROGRESSES. 3. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE
- PLANS ARE NOT ARE NOT EFFECTIVE AT PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
- 4. ALL GRADES WITHIN THE REGULATORY FLOOD PLAIN WILL BE MAINTAINED OR MATCHED.
- 5. THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AND UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G. FUEL TANKS,
- PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC. 6. ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE
- RELEASE OF SEDIMENT LADEN WATER. 7. PRIOR TO SITE DISTURBANCE THE CONTRACTOR/PROPONENT SHOULD ENSURE THAT THE WORKS ARE IN CONFORMANCE WITH THE MIGRATORY BIRDS CONVENTION ACT. PLEASE NOTE THAT THE GENERAL BREEDING BIRD TIMING WINDOW FOR THIS AREA IS APRIL 1ST TO AUGUST 31ST, HOWEVER, BREEDING
- ACTIVITIES MIGHT INITIATE PRIOR TO AND CONTINUE PAST THIS PERIOD. 8. FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA AND UNDER THE SUPERVISION OF QUALIFIED AQUATIC TECHNICAL STAFF. THE
- PROPONENT/CONTRACTOR SHOULD CONFIRM REQUIREMENTS DIRECTLY WITH THE MINISTRY OF NATURAL RESOURCES AND FORESTRY. 9. AN ENVIRONMENTAL MONITOR WILL BE ON SITE, AND PROVIDE ADVICE, TO ENSURE THAT ACTIVITIES THAT COULD HAVE A NEGATIVE IMPACT TO THE NATURAL ENVIRONMENT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. THE ENVIRONMENTAL MONITOR SHALL NOTIFY THE TRCA

ENFORCEMENT OFFICER AND PROJECT MANAGER IF ISSUES ARISE

(PER ENGLOBE DRAFT GOTECH REPORT DATED MARCH 30, 2022. CONTACTOR TO ENSURE PAVEMENT STRUCTURE IS CONSISTENT

LIGHT DUTY PAVEMENT STRUCTURE: 40mm DEPTH OF HL3 ASPHALT 50mm DEPTH OF HL8 ASPHALT 150mm DEPTH OF GRANULAR 'A'

300mm DEPTH OF GRANULAR 'B' HEAVY DUTY PAVEMENT STRUCTURE: 40mm DEPTH OF HL3 ASPHALT 80mm DEPTH OF HL8 ASPHALT

250mm DEPTH OF 32MPa CONCRETE

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

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- SERVICES AND UTILITIES 6. CONTRACTOR TO CONFIRM ALL EXISTING INVERTS PRIOR TO INTERNAL SERVICING.

Montcalm Blvd <u>Laurelhurst Cr</u> aurelhurst Cr KEYMAP - NTS

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

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Ю.	Description	Date
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CONSULTING INC

Consulting Engineering & Project Management

Fax: (905)875-1339

Email: mgm@mgm.on.ca

Milton, Ontario

555 Industrial Drive

Suite 201



GRADING PLAN

Fax: 416.364.4662

FILE No. DA.22.035

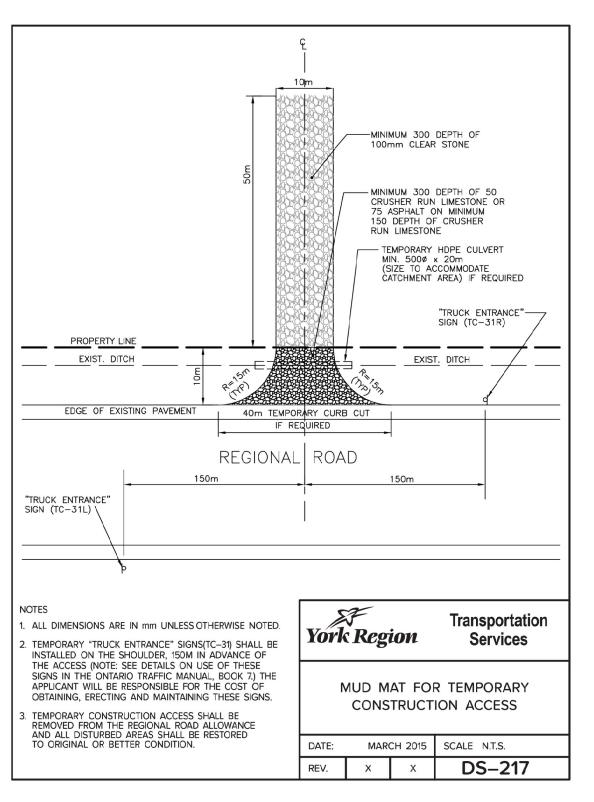
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DESIGNED BY: AB

PROJECT No. 2022-007

ISSUED FOR SPA

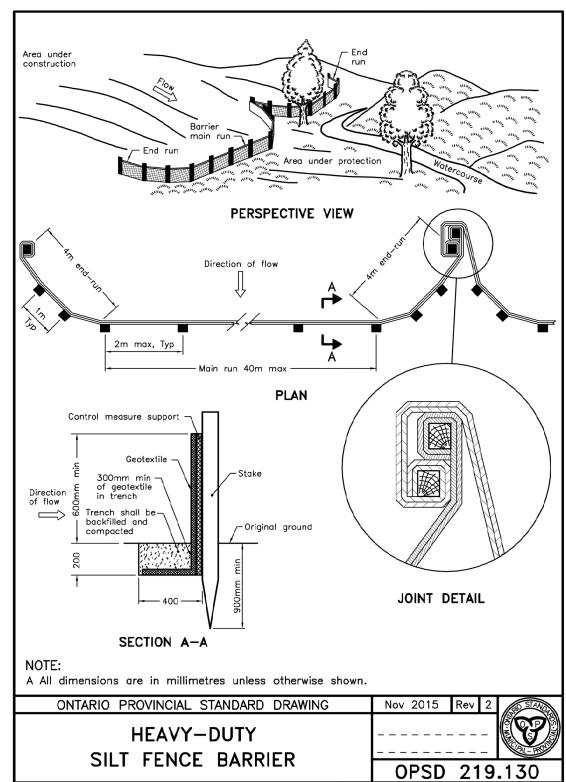


__WATER METER CHAMBER COVE (SEE STD. DWG. W-108)

PLAN VIEW

HOLES TO BE DRILLED THROUGH TOP OF CHAMBER _ TO SUIT VALVES AS SHOWN. SEE NOTES 7 AND 8.

FINISHED GRADE



TYPICAL INSTALLATION

CKFLOW PREVENTER SHALL BE INSTALLED PER STD. W-111 WHE

4. 100mm DIA. DRAIN COMPLETE WITH 'P' TRAP AND BACK FLOW PREVENTER VALVE TO BE CONNECTED TO STORM SEWER WHERE POSSIBLE.

5. BACKFLOW PREVENTER SHALL BE DCVA (DOUBLE CHECK VALVE ASSEMBLY) TYPE AND SHALL MEET THE REQUIREMENTS OF CSA STANDARDS AND AWWA GUIDELINES.

6. INSTALLATION AND TESTING OF BACKFLOW PREVENTER SHALL MEET CSA B64-10 STANDARDS AND AWWA GUIDELINES.

8. CHAMBER TO BE DESIGNED FOR H20 LOADING AT 300mm COVER.

10. VALVES TO BE EQUIPPED WITH KEY TYPE OPERATING NUT.

12. SEE STANDARD DRAWING W-101 FOR ADDITIONAL NOTES.

NOT TO SCALE

7. 50mm CONDUIT TO BE INSTALLED FROM CHAMBER WALL TO A SUITABLE LOCATION.

DIMENSIONS OF THE CHAMBER AND ALL INTERNAL CONNECTIONS SHALL BE VERIFIED BEFORE INSTALLATION.

11. 6.5mm GALV. STEEL PLATE GUIDE FOR STEM EXTENSION PER O.P.S.D. 1101.02.

BYPASS PIPE TO BE ONE (1) PIPE SIZE SMALLER THAN SERVICE CONNECTION OR MINIMUM 2" DIAMETER.

14. NO PERSON SHALL INSTALL OR PERMIT THE INSTALLATION OF A BYPASS UNLESS AUTHORIZED BY THE CITY AND THE BYPASS IS VALVED AND LOCKED PROPERLY.

VAUGHAN

<u>TY OF VAUGHAN ENGINEERING STANDARI</u>

METER, BACKFLOW PREVENTER & BYPASS

IN CHAMBER

DATE: 2016

DESIGNED: _____

STD. DWG.

W - 106

LOW PREVENTER & CHAMBER (SEE NOTE BELOW *)

1. CONCRETE TO BE 32MPa COMPRESSIVE STRENGTH.

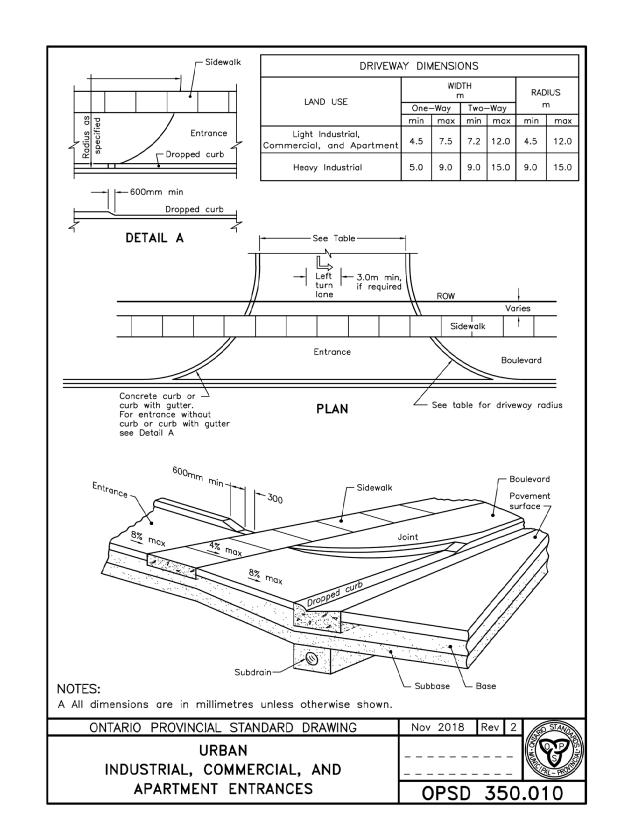
3. CHAMBER COVER & FRAME TO BE 2 PIECE.

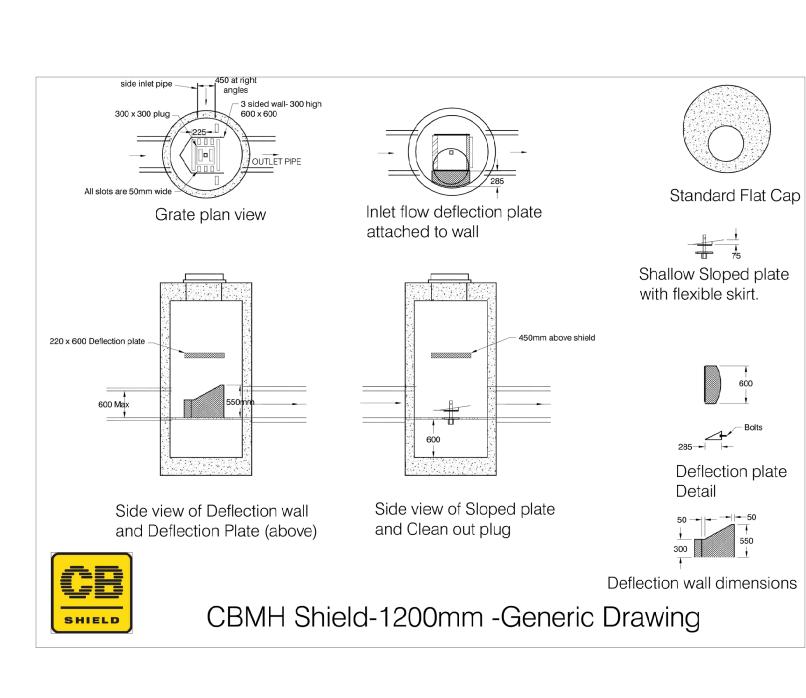
2. COPPER PIPE TO BE TYPE K.

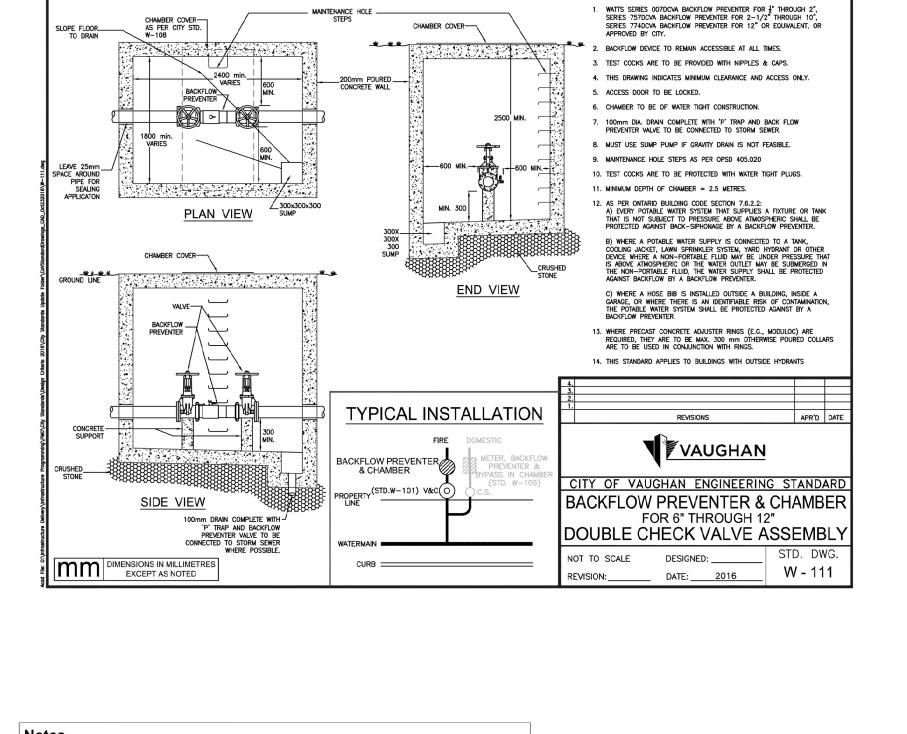
RESTRAIN JOINTS, BENDS AND TEE'S

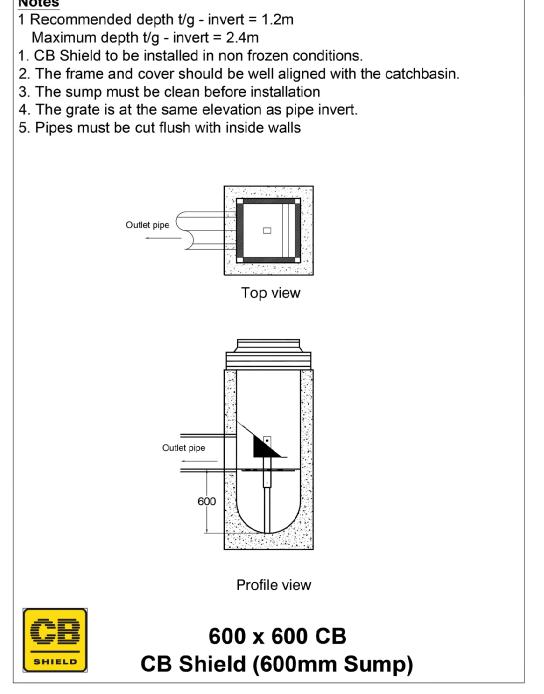
DRAIN (SEE NOTE No. 4)

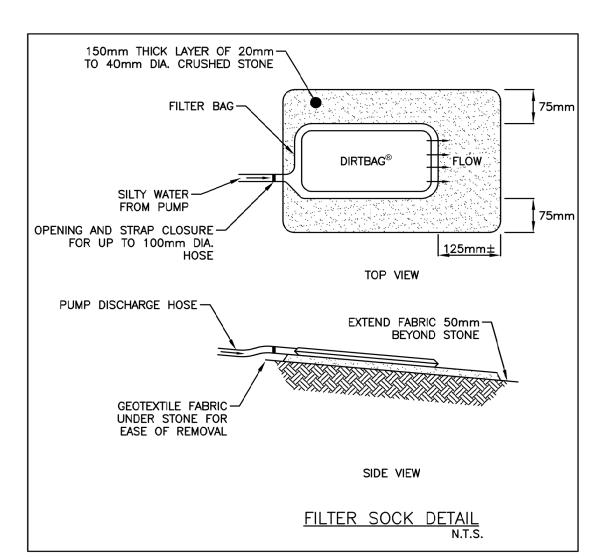
MM DIMENSIONS IN MILLIMETE EXCEPT AS NOTED

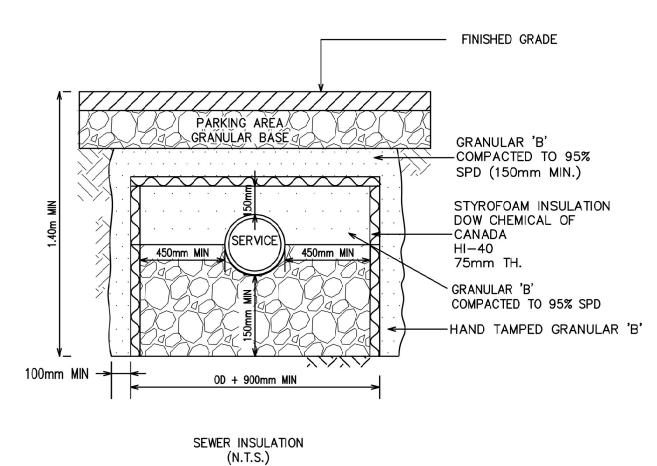


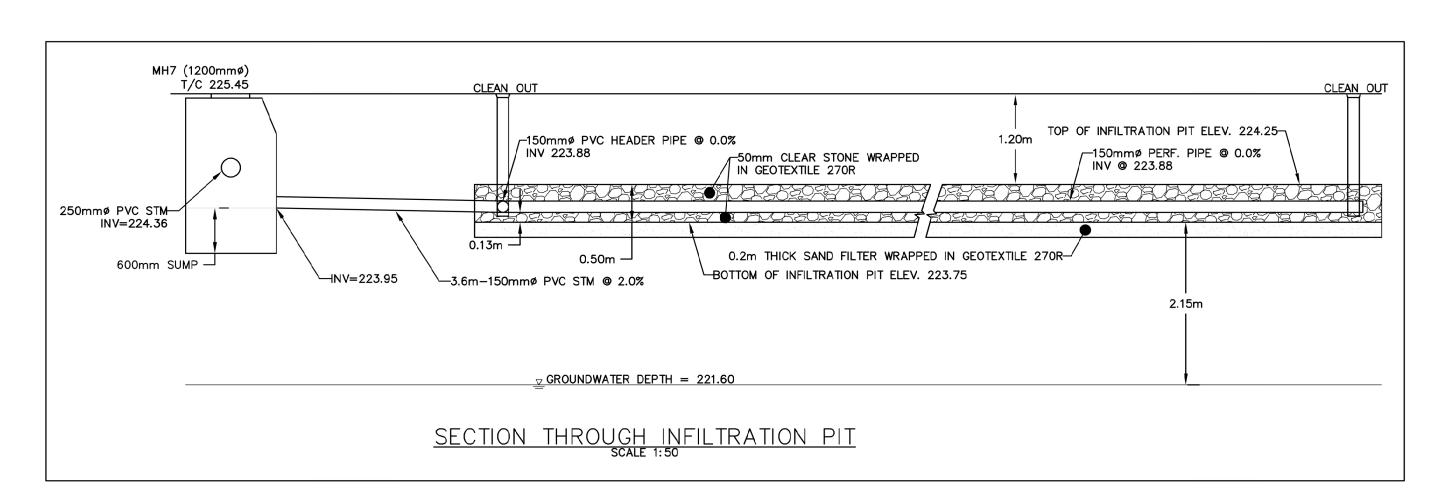


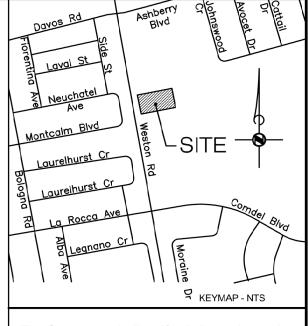












The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION

1	ISSUED FOR SPA	05/27/2
2	ISSUED FOR SPA RESUBMISSION	06/12/2

Description

FIRE Α̈́



Fax: (905)875-1339 Email: mgm@mgm.on.ca

PROFESSIONAL SEAL:

L9T 5E1



DWG TITLE: **DETAILS**

Tel: 416.364.5710 Fax: 416.364.4662 info@tbrownerch.ca

PROJECT No.

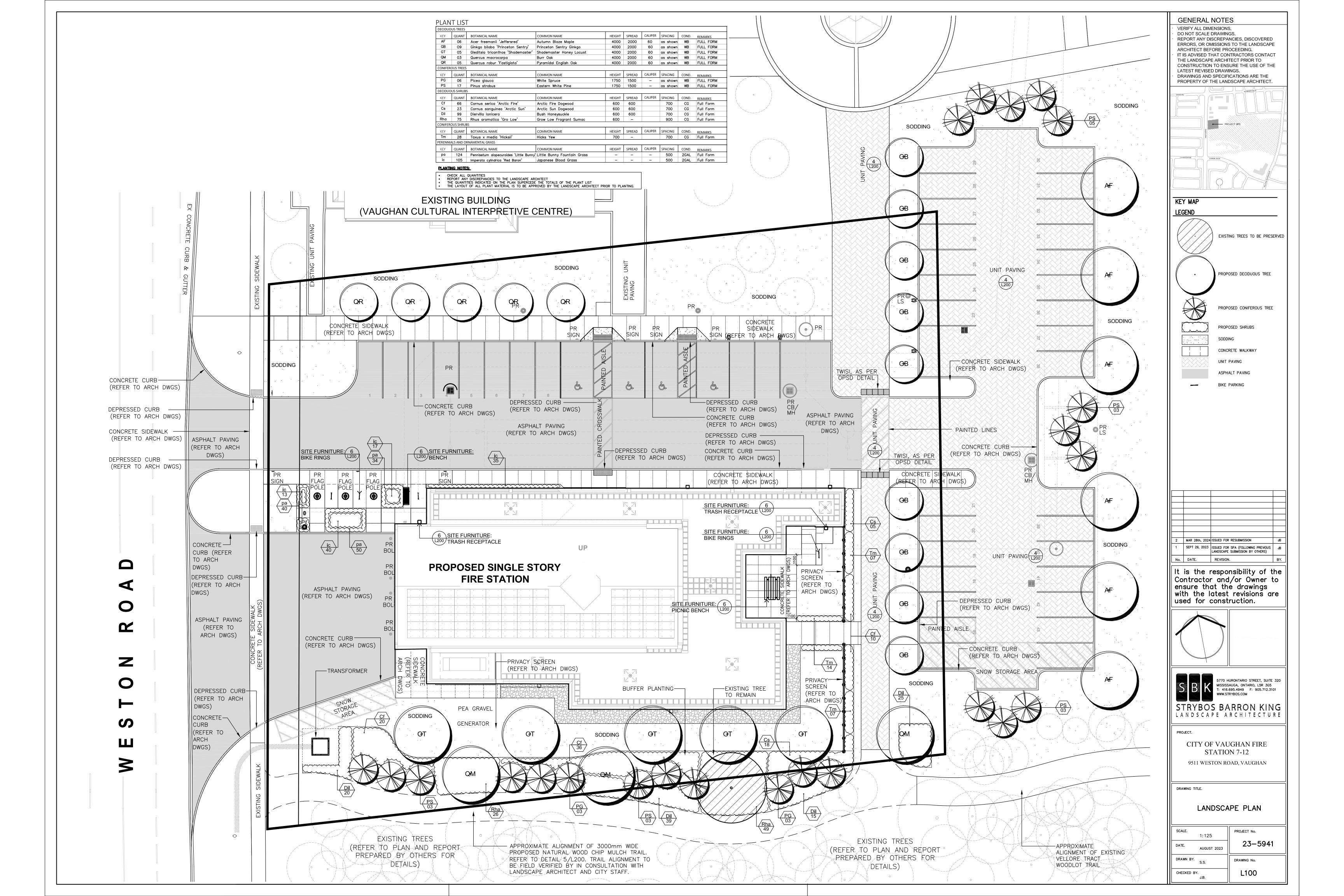
FILE No. DA.22.035

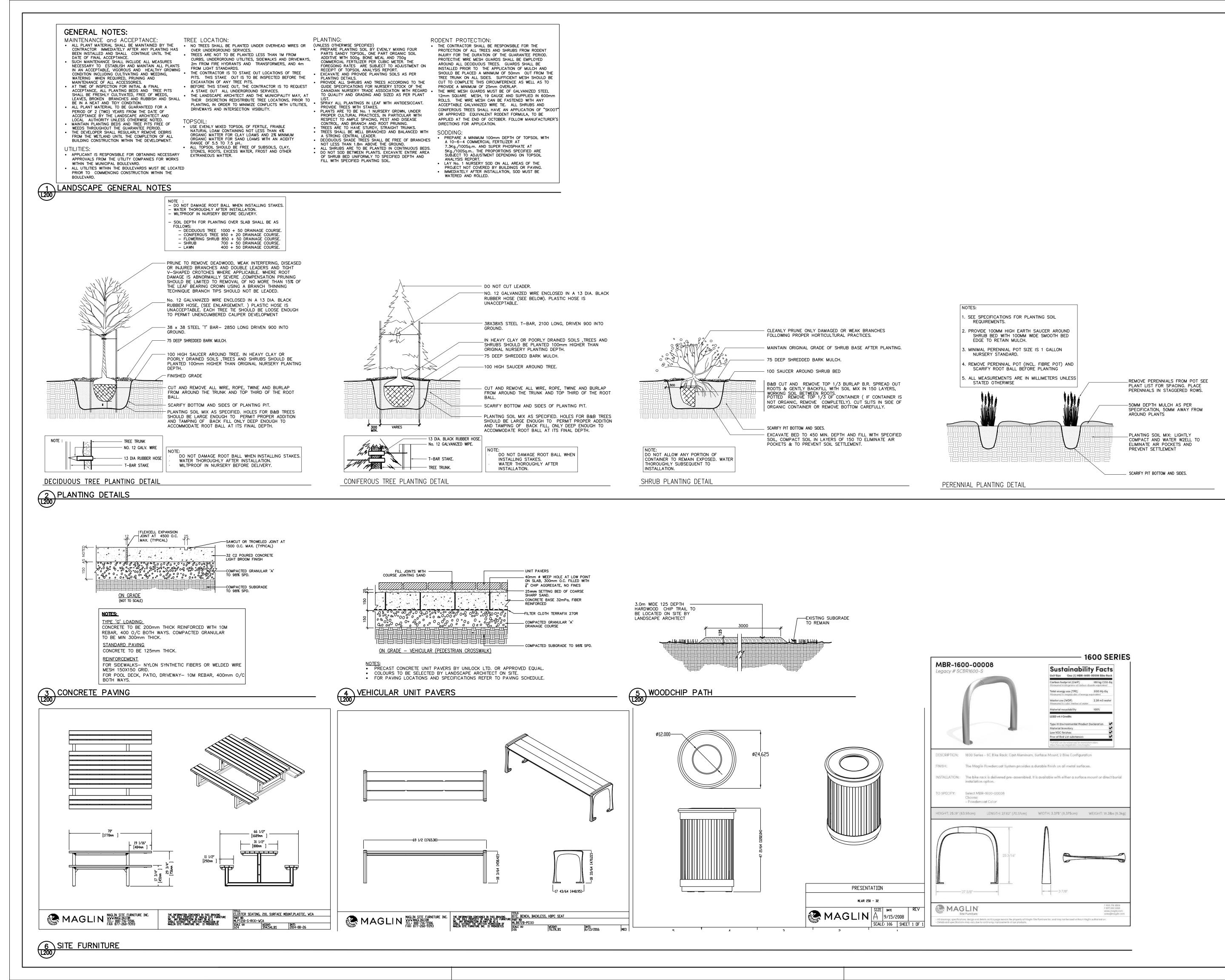
DATE: MAR 2022 SCALE: 1:300 DRAWN BY: AB CHECKED BY KL DESIGNED BY: AB

DWG STATUS: ISSUED FOR SPA

2022-007

N:\Projects\2022-007 - Vaughan Fire Station\Working Folders\Drawings\2022-007 A1.dwg



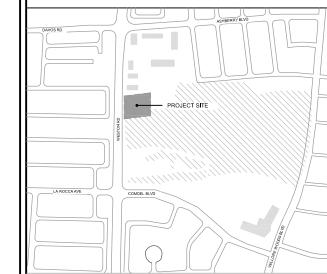


GENERAL NOTES

VERIFY ALL DIMENSIONS.
DO NOT SCALE DRAWINGS.
REPORT ANY DISCREPANCIES, DISCOVERED ERRORS, OR OMISSIONS TO THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
IT IS ADVISED THAT CONTRACTORS CONTACT THE LANDSCAPE ARCHITECT PRIOR TO

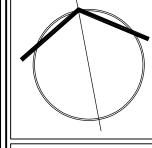
LATEST REVISED DRAWINGS.
DRAWINGS AND SPECIFICATIONS ARE THE
PROPERTY OF THE LANDSCAPE ARCHITECT.

CONSTRUCTION TO ENSURE THE USE OF THE



2 MAR 28th, 2024 ISSUED FOR RESUBMISSION JE
1 SEPT 29, 2023 ISSUED FOR SPA (FOLLOWING PREVIOUS LANDSCAPE SUBMISSION BY OTHERS)
No. DATE. REVISION. BY

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



5770 HURONTARIO STREET, SUITE 320
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T: 416.695.4949 F: 905.712.3101
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STRYBOS BARRON KING LANDS CAPE ARCHITECTURE

PROJECT

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

DRAWING TITLE.

LANDSCAPE DETAILS

SCALE.		PROJECT No.
DATE.	AUGUST 2023	23-5941
DRAWN BY.	S.S.	DRAWING No.
CHECKED BY	, , J.B.	L200