

# CITY OF TORONTO

# ACCESSIBILITY UPGRADES

9119- 19- 0162 / IBI 122260

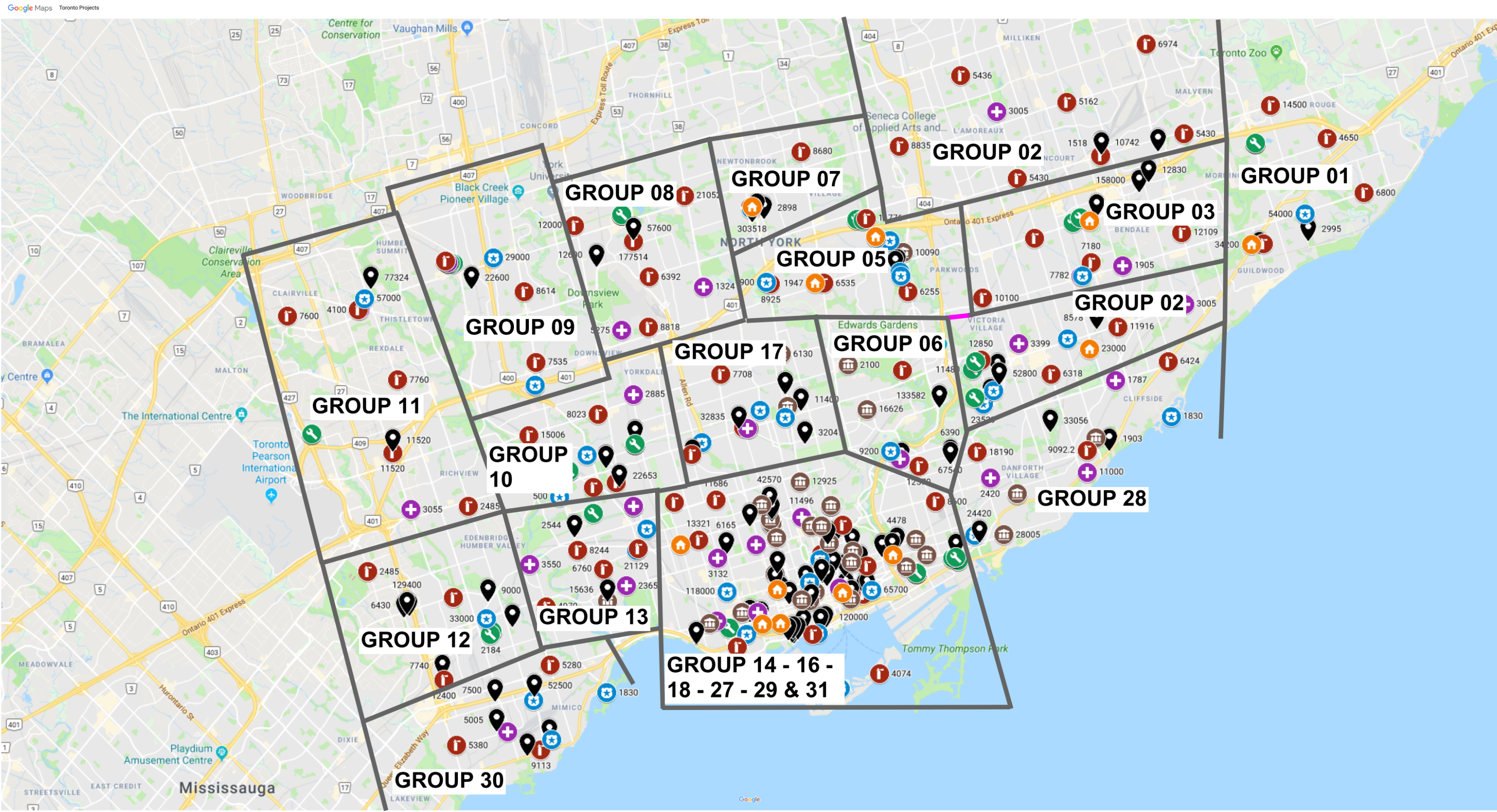


IMAGE SOURCES: GOOGLE MAPS

COVER PAGE GROUP 21	
SHEET #	SHEET TITLE
G21-GAL-G1001	COVER PAGE, GENERAL DRAWING LIST, BUILDING LIST

GENERAL LAYOUTS GROUP 21	
SHEET #	SHEET TITLE
G21-GAL-G1002	ARCHITECTURAL GENERAL NOTES, ABBREVIATIONS & REFERENCE SYMBOLS
G21-GAL-G1003	WALL TYPES
G21-GAL-G1004	DOOR TYPES
G21-GAL-G2001	STRUCTURAL GENERAL NOTES
G21-GAL-G2002	ABBREVIATIONS & SYMBOLES
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G21-GAL-G3002	MECHANICAL LEGEND SHEET 2 OF 2
G21-GAL-G4001	ELECTRICAL LEGEND SHEET 1 OF 2
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GROUP 21 BUILDING INDEX		
SERIAL #	BUILDING ADDRESS	BUILDING DESCRIPTION
86	160 RIVALDA RD.	NEW PARAMEDICS STATION

TOUCH AND FEEL BOOKLET
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TYPICAL DETAILS BOOKLET
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ISSUED FOR TENDER

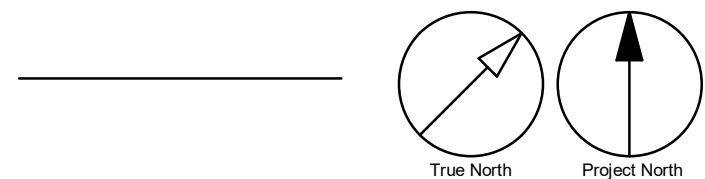


ABBREVIATIONS

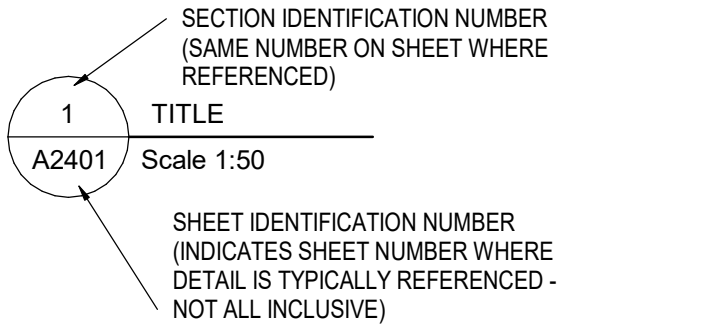
@	AT	EL	ELEVATION	MACH	MACHINE	SD	SOAP DISPENSER / STORM DRAIN
A	ANGLE	ELEC	ELECTRICAL	MAINT	MAINTENANCE	SDCONC	SEALED CONCRETE
A/C	AIR CONDITIONER / CONDITIONING	ELEV	ELEVATOR	MAT	ANTI-FATIGUE MATTING	SECT	SECTION
ABV	ABOVE	EMER	EMERGENCY	MATL	MATERIAL	SF	SQUARE FEET
ACCS	ACCESSORIES	EMF	ENGINEERED WOOD FLOORING	MAX	MAXIMUM	SHLF	SHELF
ACSDR	ACCESS DOOR	ENCL	ENCLOSED / ENCLOSURE	MC	MEDICINE CABINET	SHT	SHEET
ACSF/LR	ACCESS FLOOR	ENG	ENGINEER	ME	MECHANICAL EQUIPMENT	SHTG	SHEATHING
ACST / ACOUS	ACOUSTICAL	EOD	EDGE OF DECK	MECH	MECHANICAL	SHWC	SHOWER CURTAIN AND ROD
ACT	ACOUSTICAL CEILING TILE	EOS	EDGE OF SLAB	MEZZ	MEZZANINE	SHWR	SHOWER
AD	AREA DRAIN	EQ	EQUAL(LY)	MFR	MANUFACTURE(R)	SHWS	SHOWER SEAT
ADDL	ADDITIONAL	EQPT	EQUIPMENT	MH	MANHOLE	SIM	SIMILAR
ADDM	ADDENDUM	EST	ESTIMATE	MIN	MINIMUM	SND	SANITARY NAPKIN DISPENSER
ADJ	ADJUSTABLE / ADJACENT	EWC	ELECTRIC WATER COOLER	MIR	MIRROR	SNR	SANITARY NAPKIN RECEPTACLE
ADMIN	ADMINISTRATION	EXIST	EXISTING	MISC	MISCELLANEOUS	SOG	SLAB ON GRADE
AFC	ABOVE FINISHED COUNTER	EXP	EXPANSION	MLD / MLDG	MOULDING	SPD	SOAP DISPENSER WITH COLLECTOR
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR	MO	MASONRY OPENING	SPEC	SPECIFY / SPECIFICATION
AFS	ABOVE FINISHED GRADE	FA	FIRE ALARM	MR	MOISTURE RESISTANT	SPK	SPEAKER
AGGR	AGGREGATE	FAST	FASTEN(ER)	MTD	MOUNTED	SQ	SQUARE
AHR	ANCHOR	FCO	FLOOR CLEAN OUT	MTL	METAL	SQFT	SQUARE FEET
AHU	AIR HANDLING UNIT	FD	FLOOR DRAIN	MUL	MULLION	SOIN	SQUARE INCH(ES)
AL / ALUM	ALUMINUM	FDN	FOUNDATION	MW	MICROWAVE	SS	STAINLESS STEEL
ALNMT	ALIGNMENT	FE	FIRE EXTINGUISHER	N	NORTH	ST	STONE
ALT	ALTERNATE	FEC	FIRE EXTINGUISHER CABINET	N/A OR N/A	NOT AVAILABLE / APPLICABLE	STA	STATION
ANOD	ANODIZED	FEC (R)	RECESSED	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	STC	SOUND TRANSMISSION CLASS
ANUN	ASSISTANCE REQUIRED INDICATOR/ALARM	FEC (SR)	FIRE EXTINGUISHER CABINET, SEMI-RECESSED	NIC	NOT IN CONTRACT	STD	STANDARD
AP	ACCESS PANEL	FF	FINISHED FLOOR	NO / #	NUMBER	STDS	STUDS
APC	ACOUSTICAL PANEL CEILING	FFL	FINISH FLOOR LEVEL	NOM	NOMINAL	STIFF	STIFFENER
APPROX	APPROXIMATELY	FGL	FIBERGLASS	NTS	NOT TO SCALE	STL	STEEL
APPVD	APPROVED	FIN	FINISHED	OA	OVERALL	STN	STAINED
AR-LED	DOOR LOCK INDICATOR	FIXT	FIXTURE	OBS	OBSOURE	STOR	STORAGE
ARCH	ARCHITECT(URAL)	FL	FLOOR	OC	ON CENTRE	STRUCT	STRUCTURE / STRUCTURAL
ASPH	ASPHALT	FLASH	FLASHING	OD	OCCUPIED INDICATOR	SV	STOVE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	FLUOR	FLUORESCENT	OFF	OFFICE	SW	SWITCH
AUTO	AUTOMATIC	FOF	FACE OF FINISH	OPG / OPNG	OPENING	SYM	SYMMETRICAL
AVG	AVERAGE	FOM	FACE OF MASONRY	OPP	OPPOSITE	SYN	SYNTHETIC
		FOS	FACE OF STUDS	OZ	OUNCE	SYS	SYSTEM
		FOW	FACE OF WALL			T&B	TOP AND BOTTOM
BD	BOARD	FP	FIREPROOF	PART	PARTIAL	T&G	TONGUE AND GROOVE
BET	BETWEEN	FPL	FIREPLACE	PAT	PATTERN	TB	TOWEL BAR
BFAC	BARRIER FREE ADULT CHANGE TABLE	FR	FRAME	PB	PORCELAIN BASE	TBD	TO BE DETERMINED
BFAO	BARRIE FREE AUTOMATIC OPENER	FRC	FIBRE REINFORCED CONCRETE	PBD	PARTICLE BOARD	TC	TOP OF CURB
BFPB	BARRIER FREE PUSH BUTTON	FRG	FIRE RATED GLASS	PC / POC	PRECAST CONCRETE	TEL	TELEPHONE
BFWO	BARRIER FREE WAVE TO OPEN	FRGP	FIBRE REINFORCED GYPSUM PLASTER	PE	PEDESTAL/PEDESTRIAN	TEMP	TEMPORARY / TEMPERATURE
BG	BUMPER GUARD	FS	FIRE RETARDANT TREATED FLOOR SINK	PER	PERIMETER	TER	TERRAZZO
BITUM	BITUMINOUS	FTG	FOOTING	PERF	PERFORATED	TGL	TEMPERED GLASS
BL	BLACK	FURR	FURRING	PERP	PERPENDICULAR	THK	THICK
BLDG	BUILDING	FUT	FUTURE	PF	PRE-FINISHED	THRU	THROUGH
BLK	BLOCK			PFT	PORCELAIN FLOOR TILE	TCC	TOP OF CONCRETE
BLKG	BLOCKING			PIP	POURED-IN-PLACE	TOS	TOP OF STEEL
BM	BEAM			PL	PLATE	TOW	TOP OF WALL
BOS	BOTTOM OF STEEL	GA	GAUGE	PLAM	PLASTIC LAMINATE	TPD	TOILET PAPER DISPENSER
BOT	BOTTOM	GALV	GALVANIZE(D)	PLAS	PLASTER	TPTN	TOILET PARTITION
BR	BACKREST	GB	GYPSUM BOARD	PLYWD	PLYWOOD	TV	TELEVISION
BS	BOTH SIDES	GBFD	GRAB BAR FOLD DOWN	PR	PAIR	TYP	TYPICAL
		GC	GENERAL CONTRACTOR	PRCST	PRE-CAST	UC	UNDERCUT
CAB	CABINET	GL	GLASS / GLAZING	PREFAB	PREFABRICATED	UG	UNDERGROUND
CAS	CASEWORK	GND	GROUND	PROP	PROPERTY	UL	UNDERWRITERS LABORATORY
CB	CATCH BASIN	GR	GRADE	PSF	POUNDS PER SQUARE FOOT	UNF / UNFIN	UNFINISHED
CEM	CEMENT	GRB	GRAB BAR	PRT	PORCELAIN TILE	UNO	UNLESS NOTED OTHERWISE
CER	CERAMIC	GRV	GRAVEL	PSI	POUNDS PER SQUARE INCH	UPS	UNINTERRUPTIBLE POWER SUPPLY
CF	CUBIC FOOT	GYP	GYPSUM	PT	PAINT	UR	URINAL
CG	CORNER GUARD			PTD	PAPER TOWEL DISPENSER	V	VOLT
CH	CEILING HEIGHT			PTD/WVR	PAPER TOWEL DISPENSER & WASTE RECEPTACLE	VAC	VACUUM
CHAM	CHAMFER	HB	HOSE BIB			VB	VAPOR BARRIER
CHBD	CHALKBOARD	HC	HOLLOW CORE			VCT	VINYL COMPOSITION TILE
CI	CAST IRON	HD	HEAVY DUTY			VENT	VENTILATE
CIP	CONTRACTOR INSTALLED	HDR	HEADER	PTDF	PRESSURE TREATED DOUGLAS FIR	VERT	VERTICAL
CJ	CONTROL JOINT	HDWR	HARDWARE	PTLB	PUSH TO LOCK BUTTON	VEST	VESTIBULE
QL	CENTRE LINE	HI	HIGH	PTN	PARTITION	VIF	VERIFY IN FIELD
QLG	CEILING	HM	HOLLOW METAL	PTOB	PUSH TO OPEN BUTTON	VNR	VENEER
QLO	CLOSET	HMI	HOLLOW METAL INSULATED	PTR	PAPER TOWEL RECEPTACLE	VST	VINYL STAIR TREADS
CLR	CLEAR	HNDR	HAND DRYER	PVC	POLY(VINYL CHLORIDE)	VSTR	VINTYL STAIR TREADS & RISERS
CMU	CONCRETE MASONRY UNIT	HOR / HORIZ	HORIZONTAL	Q	QUARTZ	VTR	VENT THRU ROOF
CO	CLEAN/CLEAR OUT	HP	HIGH POINT	QTY	QUANTITY	VWC	VINYL WALLCOVERING
COL	COLUMN	HR	HANDRAIL			W	WEST
CONC	CONCRETE	HT	HEIGHT	R	RISER	W/	WITH
CONST	CONSTRUCTION	HVAC	HEATING / VENTILATION / AIR CONDITIONING	RAD	RADIUS	WO	WITHOUT
CONT	CONTINUOUS			RB	RUBBER BASE	WC	WATER CLOSET
CORR	CORRIDOR	HW	HARDWARE	RCP	REFLECTED CEILING PLAN	WCV	WALLCOVERING
CP	CONCRETE PAVER	HYD	HYDRANT	RD	ROOF DRAIN	WD	WOOD
CPR	COPPER			REF	REFERENCE	WF	WIDE FLANGE
CPT	CARPET(ED)(ING)	IALUM	INSULATED ALUMINUM	REFR	REFRIGERATOR	WH	WALL HOSE / HYDRANT
CT	CERAMIC TILE	ID	INSIDE DIAMETER	REG	REGISTER	WI	WROUGHT IRON
CTH	COAT HOOK	IHM	INSULATED HOLLOW METAL PANEL	REIN	REINFORCE(D)	WIN	WINDOW
CTR	COUNTER	IN	INCH / INCHES	REQ	REQUIRED	WK	WORK
		INCL	INCLUDE(D) / INCLUDING	RESIL	RESILIENT	WNSCT	WAINSCOT
		INSUL	INSULATE / INSULATION	RESS	RESILIENT SHEET	WP	WATERPROOF(ING)
DBL	DOUBLE	INT	INTERIOR	REST	RESILIENT TILE	WPT	WORK POINT
DEG	DEGREE	ITGL	INSULATED TEMPERED GLASS	RET	RETAINING	WR	WASHROOM
DEMO	DEMOLISH			REV	REVISE / REVISION	WRR	WOOD RISER
DEP	DEPRESSION			RFL	REFLECTED		
DET	DETAIL	JAN	JANITOR	RH	RIGHT HAND		
DF	DRINKING FOUNTAIN	JT	JOINT	RM	ROOM		
DIA	DIAMETER			RO	ROUGH OPENING		
DIAG	DIAGONAL	KIT	KITCHEN	RS	RUBBER SHEET FLOORING		
DIM	DIMENSION			RST	RUBBER STAIR TREADS		
DISP	DISPENSER	LAB	LABORATORY	RSTR	RUBBER STAIR TREADS & RISERS		
DIV	DIVISION	LAM	LAMINATE(D)	RT	RUBBER TILE		
DN	DOWN	LAV	LAVATORY	RWB	RUBBER WALL BASE		
DR	DOOR	LB(S)	POUND(S)	RWD	REDWOOD		
DS	DOWNSPOUT	LF	LINEAR FOOT (FEET)	RWL	RAIN WATER LEADER		
DW	DISHWASHER	LH	LEFT HAND				
DWG	DRAWING	LIB	LIBRARY				
		LKR	LOCKER	S	SOUTH		
E	EAST	LNS	LINOLEUM SHEET	SC	SOLID CORE		
EA	EACH	LNT	LINOLEUM TILE	SCD	SEAT COVER DISPENSER		
ECB	EMERGENCY CALL BUTTON	LP	LOW POINT	SCHED	SCHEDULE		
ECS	EMERGENCY CALL SIGNAGE	LT	LIGHT	SCN	SCREEN		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	LVR	LOUVRE	SCT	STAINED CONCRETE		
EJ	EXPANSION JOINT	LWT	LIGHT WEIGHT				

REFERENCE SYMBOLS

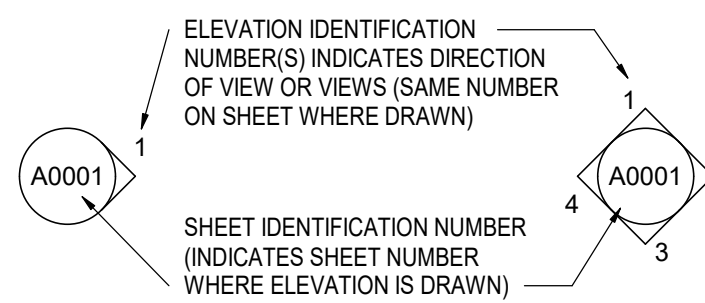
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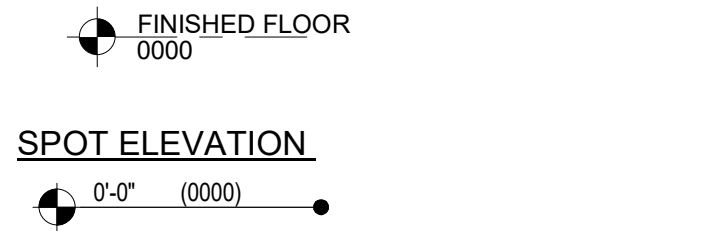
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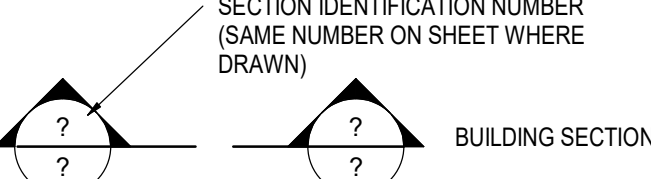
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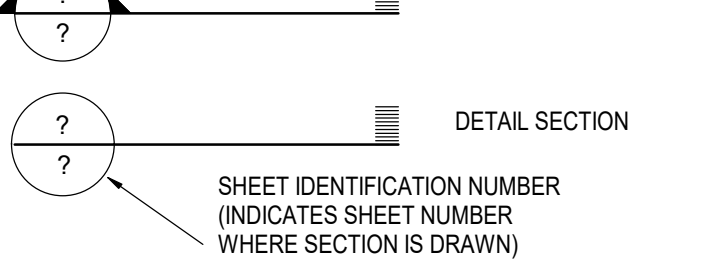
ELEVATION INDICATION - (FLOORS, ETC...)



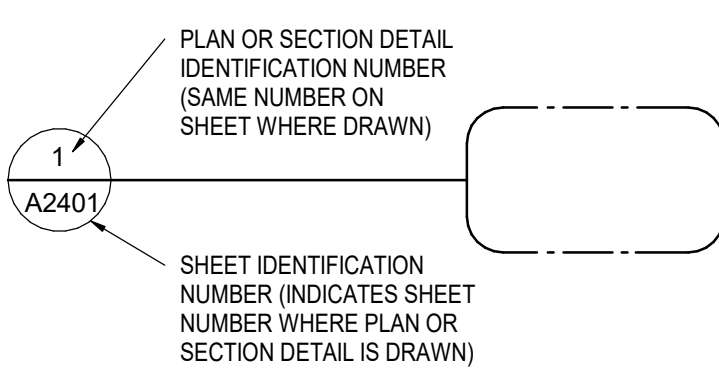
SECTION LOCATION IDENTIFICATION



DETAIL LOCATION IDENTIFICATION



DETAIL LOCATION IDENTIFICATION



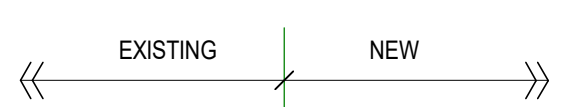
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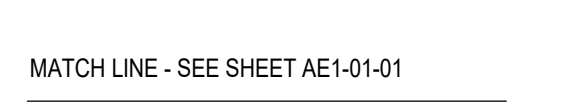
PARTITION TYPE INDICATION



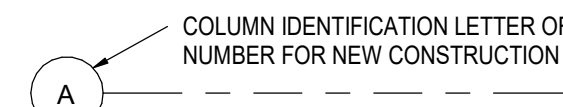
MATERIAL OR WORK DIVISION INDICATION



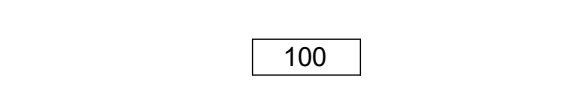
MATCH LINE INDICATION



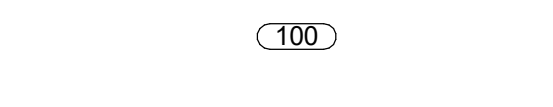
GRID LINE INDICATION



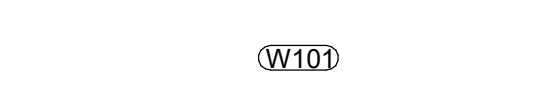
ROOM NAME AND NUMBER INDICATION



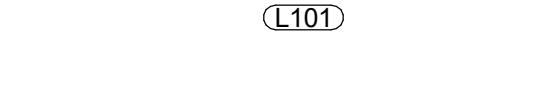
NEW DOOR NUMBER INDICATION



WINDOW NUMBER INDICATION



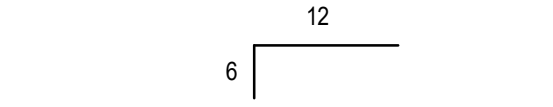
LOUVER NUMBER INDICATION



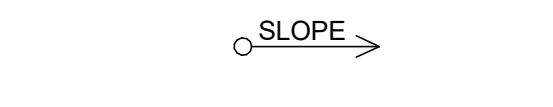
CEILING TAG



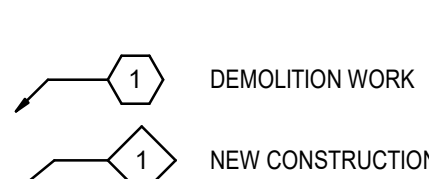
ROOF OR RAMP PITCH INDICATION



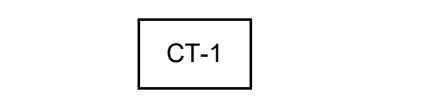
ROOF OR RAMP SLOPE INDICATION



KEYNOTE SYMBOLS



FLOOR FINISH TAG





REVISION INDICATION



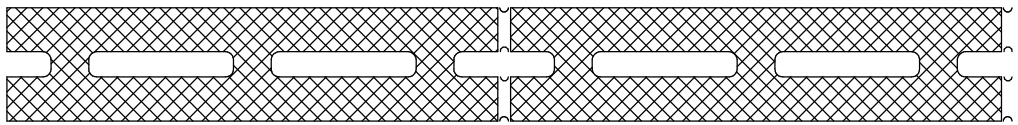
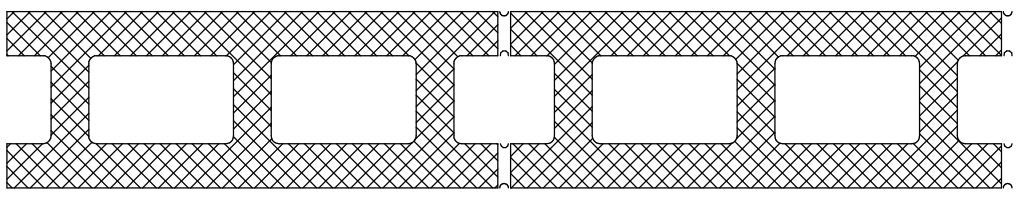
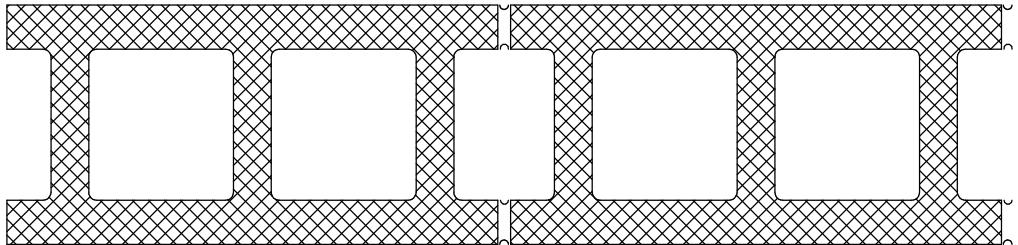
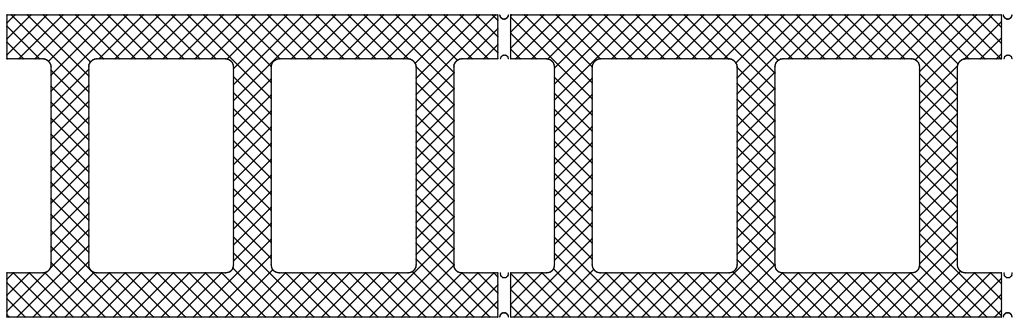
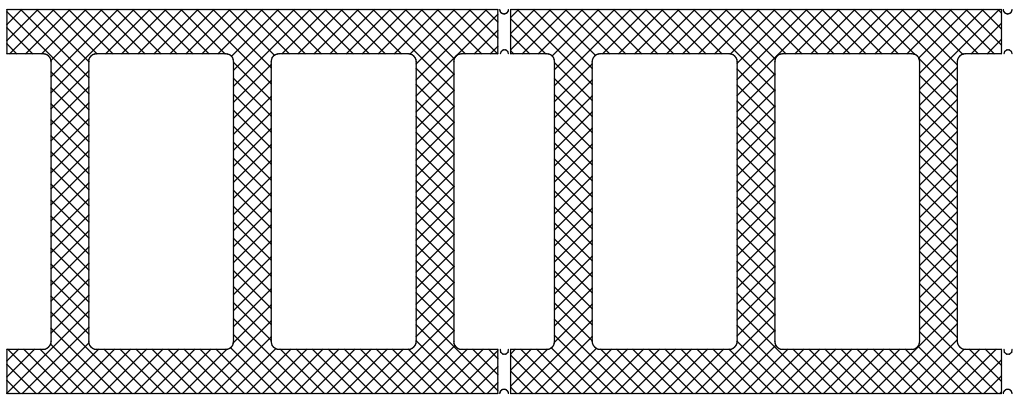
CAMERA VIEW

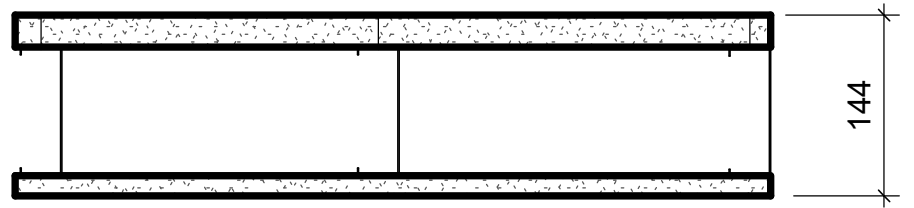
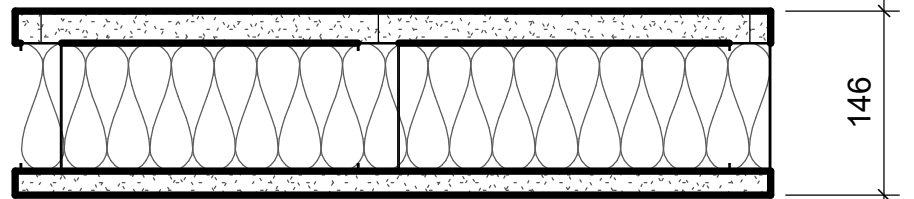


CLIENT		
CITY OF TORONTO		
		
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ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2023-02-17
E	ISSUED FOR REVISED PERMIT/100%	2023-08-31
F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT	2024-06-14
H	ISSUED FOR REVISED PERMIT REV.3	2024-12-17
I	ISSUED FOR TENDER	2025-09-08
CONSULTANTS		
SEAL		
PRIME CONSULTANT		
 <b>ARCADIS</b>		
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PROJECT TITLE		
CITY OF TORONTO ACCESSIBILITY UPGRADES		
PROJECT ADDRESS		
PROJECT NO: 9119- 19- 0162 / IBI 122260		
DRAWN BY: <b>A. BOYNARIAN</b>		CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>		APPROVED BY: <b>E. FENUTA</b>
SHEET TITLE		
GENERAL NOTES, ABBREVIATIONS & REFERENCE SYMBOLS		
SHEET NUMBER		ISSUE
G21-GAL-G1002		I



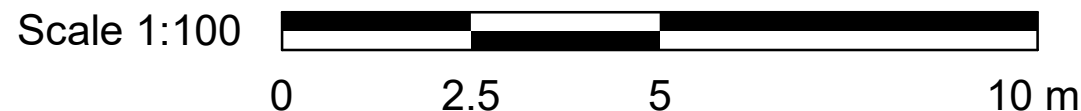
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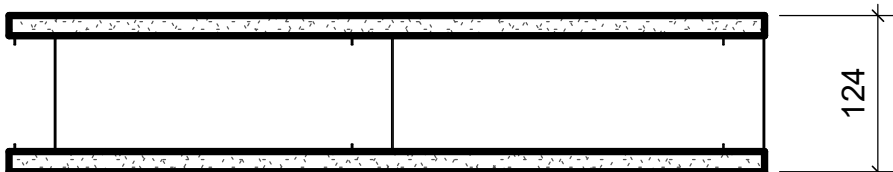
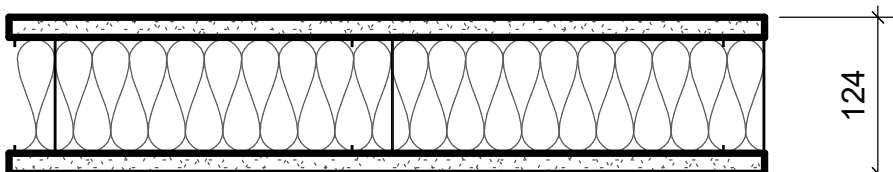
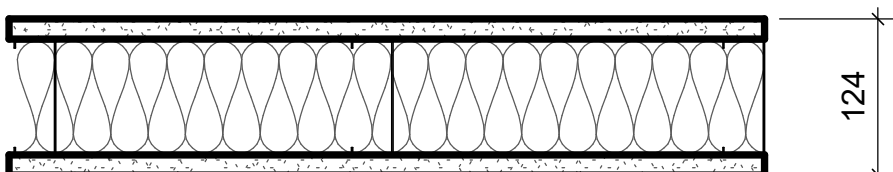
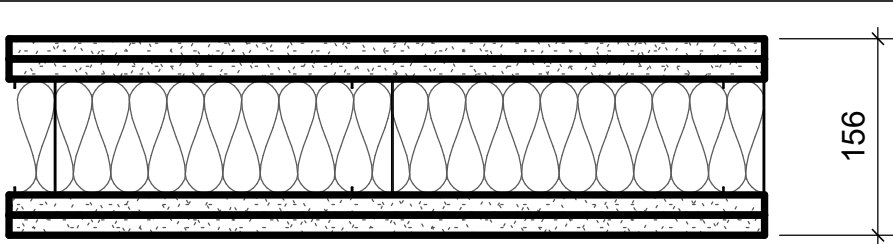
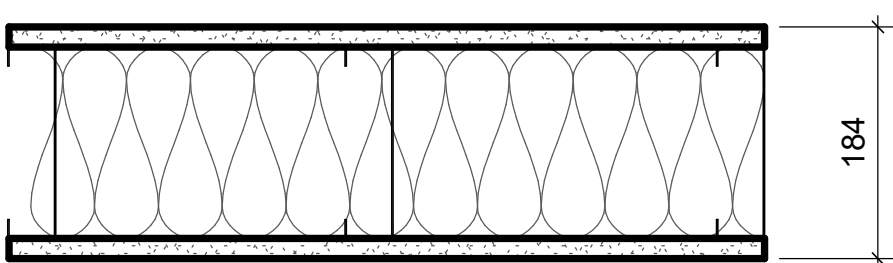
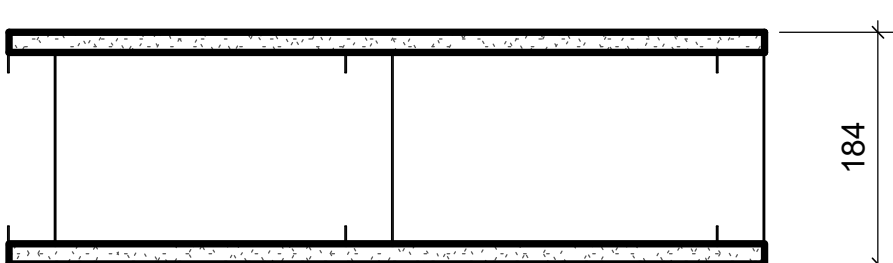
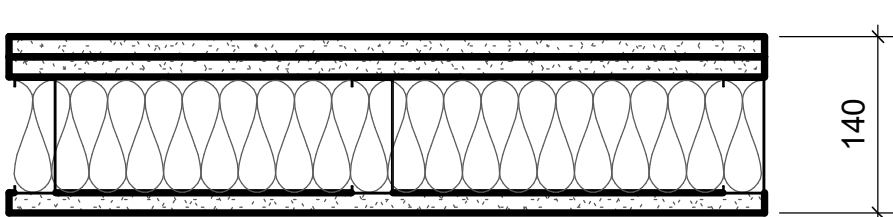
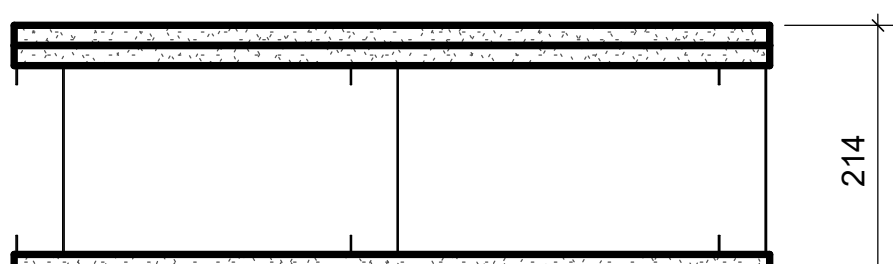
CONCRETE BLOCK				
TYPE NO.	ASSEMBLY	DESCRIPTION	FRR	STC
W1a		- 90mm CONCRETE BLOCK NORMAL WEIGHT TO U/S OF DECK/ SLAB ABOVE		44
W1b		- 140mm CONCRETE BLOCK NORMAL WEIGHT TO U/S OF DECK/ SLAB ABOVE	1.0 HR OBC SB-2	46
W1c		- 190mm CONCRETE BLOCK NORMAL WEIGHT TO U/S OF DECK/ SLAB ABOVE	2.0 HR OBC SB-2	48
W1d		- 240mm CONCRETE BLOCK LIGHT WEIGHT TO U/S OF DECK/ SLAB ABOVE		49
W1e		- 305mm CONCRETE BLOCK NORMAL WEIGHT TO U/S OF DECK/ SLAB ABOVE		51

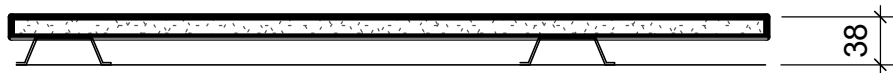
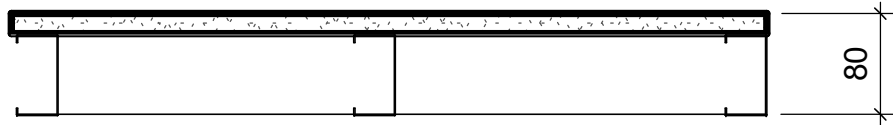
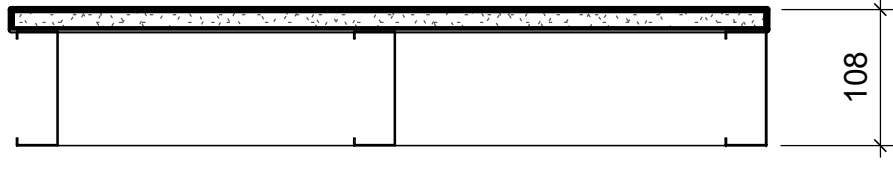
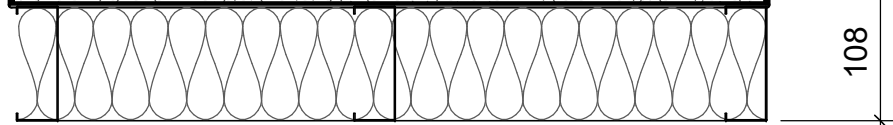
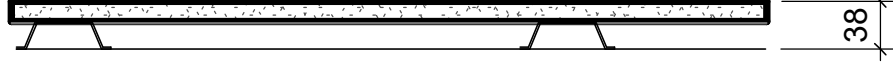
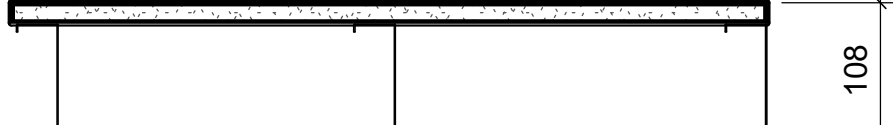
SHAFT WALL TYPES - INTERNAL				
TYPE NO.	ASSEMBLY	DESCRIPTION	FRR	STC
W4a		-25.4mm FIRE RATED GYPSUM BOARD -102mm "C-H" SHAPED STUD @600 O.C. -16mm FIRE RATED GYPSUM BOARD TO U/S OF DECK/ SLAB ABOVE	1.0 HR ULC W452	
W4b		-25.4mm FIRE RATED GYPSUM BOARD -102mm "C-H" SHAPED STUD @600 O.C. -102mm ACOUSTIC / THERMAL NON COMBUSTIBLE BATT INSULATION -19.1mm FIRE RATED GYPSUM BOARD TO U/S OF DECK/ SLAB ABOVE	2.0 HR ULC W508	52

WALL TYPE NOTES:

- ACOUSTIC BATT INSULATION TO EXTEND FULL HEIGHT OF WALL ASSEMBLIES UNLESS NOTED OTHERWISE.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD ON ALL WALLS OF WASHROOMS, KITCHEN AREAS AND BEHIND DRINKING FOUNTAINS.
- PROVIDE TILE BACKER BOARD BEHIND ALL CERAMIC TILE APPLICATIONS.
- ANY PENETRATIONS THROUGH FIRE RATED WALLS SHOULD BE PROTECTED WITH ULC LISTED FIRE STOPPING.
- AT FIRE RATED WALLS AND SMOKE BARRIERS ABOVE ACCESSIBLE CEILING, PROVIDE IDENTIFICATION SIGNAGE, SPACED AT NOT MORE THAN 9 METRE MEASURED HORIZONTALLY, INDICATING "FIRE AND/OR SMOKE BARRIER - PROTECT OPENINGS AS PER OBC 3.1.9".
- PROVIDE FIRE BLOCKING IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS VERTICALLY AT THE CEILING AND FLOOR LEVELS AND HORIZONTALLY.
- FURRING WALLS AROUND COLUMNS, SHAFTS AND PIPING THAT ARE ALSO DEMISING WALLS BETWEEN ROOMS SHALL GO TO U/S OF DECK/ SLAB ABOVE AND CARRY ACOUSTIC INSULATION CONTINUITY FROM ADJACENT WALLS.



METAL STUD - DRYWALL				
TYPE NO.	ASSEMBLY	DESCRIPTION	FRR	STC
W2		- 16mm FIRE RATED GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. - 16mm FIRE RATED GYPSUM BOARD - EXTEND WALL TO U/S OF DECK	1.0 HR ULC W407	38 (OBC S4C)
W2a		- 16mm GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. - 16mm GYPSUM BOARD		
W2b		- 16mm FIRE RATED GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. MAXIMUM - 92mm ACOUSTIC / THERMAL NON COMBUSTIBLE BATT INSULATION - 16mm FIRE RATED GYPSUM BOARD - EXTEND WALL TO U/S OF DECK	1.0 HR ULC W407	45
W2c		- 16mm GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. - 92mm ACOUSTIC / THERMAL NON COMBUSTIBLE BATT INSULATION - 16mm GYPSUM BOARD - EXTEND WALL TO U/S OF DECK		45
W2d		- 2 LAYERS OF 16mm FIRE RATED GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. MAXIMUM - 92mm ACOUSTIC / THERMAL NON COMBUSTIBLE BATT INSULATION - 2 LAYERS OF 16mm FIRE RATED GYPSUM BOARD - EXTEND WALL TO U/S OF DECK	2.0 HR ULC W414	55
W2e		- 16mm GYPSUM BOARD - 152mm METAL STUDS @ 400 O.C. - 152mm ACOUSTIC / THERMAL NON COMBUSTIBLE BATT INSULATION - 16mm GYPSUM BOARD - EXTEND WALL TO U/S OF DECK		51 (OBC S7A)
W2f		- 16mm GYPSUM BOARD - 152mm METAL STUDS @ 400 O.C. - 16mm GYPSUM BOARD		
W2g		- 2 LAYERS OF 16MM GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. - 92mm ACOUSTIC / THERMAL NON COMBUSTIBLE BATT INSULATION - 16mm GYPSUM BOARD - EXTEND WALL TO U/S OF DECK		50 (OBC S5B)
W2h		- 2 LAYERS OF 16mm FIRE RATED GYPSUM BOARD - 150mm STEEL STRUCTURAL STUDS @ 610 O.C. MAXIMUM - 2 LAYERS OF 16mm FIRE RATED GYPSUM BOARD - EXTEND WALL TO U/S OF DECK	2.0 HR UL DES U423 OR U425	

FURRING WALL TYPES - INTERNAL			
TYPE NO.	ASSEMBLY	DESCRIPTION	FRR
W3a		38mm FURRING - TO 150mm ABOVE FIN. CEILING - 16mm GYPSUM BOARD - 22mm MIN HAT CHANNEL @ 400 O.C.	
W3b		80mm FURRING - TO 150mm ABOVE FIN. CEILING - 16mm GYPSUM BOARD - 64mm MIN STEEL STUDS @ 400 O.C.	
W3c		108mm FURRING - TO 150mm ABOVE FIN. CEILING UNLESS OTHERWISE NOTED - 16mm GYPSUM BOARD - 92mm MIN STEEL STUDS @ 400 O.C.	
W3d		108mm FURRING - TO 150mm ABOVE FIN. CEILING UNLESS OTHERWISE NOTED - 16mm GYPSUM BOARD - 92mm MIN STEEL STUDS @ 400 O.C. - 92mm ACOUSTIC NON COMBUSTIBLE BATT INSULATION	
W3e		38mm FURRING - TO 70mm BELOW U/S CONCRETE SLAB - 16mm GYPSUM BOARD - 22mm MIN HAT CHANNEL @ 400 O.C.	
W3f		108mm FURRING - TO 70mm BELOW U/S CONCRETE SLAB OTHERWISE NOTED - 16mm GYPSUM BOARD - 92mm MIN STEEL STUDS @ 400 O.C.	

CLIENT

CITY OF TORONTO



Corporate Real Estate Management  
Project Management Office  
Metro Hall Toronto, ON  
M5V 3C6

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Arcadis Professional Services (Canada) Inc.

ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2023-02-17
E	ISSUED FOR REVISED PERMIT/100%	2023-08-31
F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT	2024-06-14
H	ISSUED FOR REVISED PERMIT REV.3	2024-12-17
I	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:

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CHECKED BY:

L. BANDIERA

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F. BOLOURIAN

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E. FENUITA

SHEET TITLE  
WALL TYPES

SHEET NUMBER

G21-GAL-G1003

ISSUE

I

Autodesk Docs // 122260 - Cot TAU Upgrades R2024122260-TAU-98- 60Rivada-General-R20.rvt 1/16



[illegible]

Technical drawing of a window frame S1. The drawing shows a cross-section of the frame with two vertical panes. Dimensions are indicated on the left: a total height of 1500 and a height of 1170 for the lower section. Arrows point to the 'VISION STRIPS' located in the horizontal muntins. A large arrow on the right indicates the direction of view or light.

Figure 1 shows schematic diagrams of the seven types of the proposed composite slabs (Ats, Bts, Cts, Dts, Ets, Fts, Gts). Each diagram illustrates the cross-section of the slab, showing the concrete layer, reinforcement, and vision strips. The diagrams are labeled with their respective types and dimensions.

- Ats:** Dimensions include 1170mm total height, 330mm concrete depth, and 500mm vision strip width. Reinforcement is shown as 250mm diameter bars.
- Bts:** Dimensions include 1170mm total height, 330mm concrete depth, and 500mm vision strip width. Reinforcement is shown as 250mm diameter bars.
- Cts:** Dimensions include 1170mm total height, 330mm concrete depth, and 500mm vision strip width. Reinforcement is shown as 250mm diameter bars.
- Dts:** Dimensions include 1170mm total height, 330mm concrete depth, and 500mm vision strip width. Reinforcement is shown as 250mm diameter bars.
- Ets:** Dimensions include 1170mm total height, 330mm concrete depth, and 500mm vision strip width. Reinforcement is shown as 250mm diameter bars.
- Fts:** Dimensions include 1170mm total height, 330mm concrete depth, and 500mm vision strip width. Reinforcement is shown as 250mm diameter bars.
- Gts:** Dimensions include 1170mm total height, 330mm concrete depth, and 500mm vision strip width. Reinforcement is shown as 250mm diameter bars.

[illegible]

Figure 1 displays eleven elevation drawings of proposed window types, labeled AAt through GGt(L). Each drawing shows a cross-section of the window assembly with various dimensions and components. The dimensions are given in millimeters (mm). The drawings illustrate different configurations of louvers, vision strips, and frame materials, with some dimensions varying based on the specific window type.

- AAt:** Shows a basic window frame with a diamond-shaped louver. Dimensions include 125mm for the top frame, 500mm for the louver height, and 300mm for the bottom frame. The top frame height is labeled as "VARIES".
- AAt(L):** Similar to AAt, but with two louvers. Dimensions include 125mm for the top frame, 500mm for the louver height, and 300mm for the bottom frame. The top frame height is labeled as "VARIES".
- BBt:** Shows a window frame with a diamond-shaped louver and two vertical louvers. Dimensions include 125mm for the top frame, 500mm for the louver height, and 300mm for the bottom frame. The top frame height is labeled as "VARIES".
- BBt(L):** Similar to BBt, but with two louvers. Dimensions include 125mm for the top frame, 500mm for the louver height, and 300mm for the bottom frame. The top frame height is labeled as "VARIES".
- CCt:** Shows a window frame with a diamond-shaped louver and two vertical louvers. Dimensions include 250mm for the top frame, 150mm for the louver height, and 900mm for the bottom frame. The top frame height is labeled as "VARIES".
- CCt(L):** Similar to CCt, but with two louvers. Dimensions include 250mm for the top frame, 150mm for the louver height, and 900mm for the bottom frame. The top frame height is labeled as "VARIES".
- DDt:** Shows a window frame with a diamond-shaped louver and two vertical louvers. Dimensions include 125mm for the top frame, 150mm for the louver height, and 900mm for the bottom frame. The top frame height is labeled as "VARIES".
- EEt:** Shows a window frame with a diamond-shaped louver and two vertical louvers. Dimensions include 250mm for the top frame, 150mm for the louver height, and 900mm for the bottom frame. The top frame height is labeled as "VARIES".
- FFt:** Shows a window frame with a diamond-shaped louver and two vertical louvers. Dimensions include 250mm for the top frame, 150mm for the louver height, and 900mm for the bottom frame. The top frame height is labeled as "VARIES".
- GGt:** Shows a window frame with a diamond-shaped louver and two vertical louvers. Dimensions include 125mm for the top frame, 150mm for the louver height, and 900mm for the bottom frame. The top frame height is labeled as "VARIES".
- GGt(L):** Similar to GGt, but with two louvers. Dimensions include 125mm for the top frame, 150mm for the louver height, and 900mm for the bottom frame. The top frame height is labeled as "VARIES".

VISION STRIPS

1500

1170

50 280 50





GENERAL:

1. DO NOT SCALE THE DRAWINGS.
2. THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. ALL RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, PROCESS & CIVIL DRAWINGS, AND OTHER RELEVANT CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL PROVIDE COMPLETE SET OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL & PROCESS DRAWINGS & APPLICABLE SPECIFICATION SECTIONS TO THE STRUCTURAL STEEL, JOIST & METAL FABRICATIONS CONTRACTORS PRIOR TO SUBMISSION OF ANY RELATED SHOP DRAWINGS.
4. THE DESIGN AND CONSTRUCTION OF ALL WORK ON THIS PROJECT IS TO CONFORM TO THE 2012 EDITION OF THE ONTARIO BUILDING CODE (REGULATION 332/12).
5. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE SITE AND REPORT TO THE ENGINEER ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION, COST, SCHEDULE OR QUALITY OF WORK. COMMENCEMENT OF WORK BY THE CONTRACTOR IMPLIES ACCEPTANCE OF THE EXISTING CONDITIONS.
6. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UNDERGROUND UTILITIES AND OTHER EXISTING SERVICES DURING CONSTRUCTION, AND MAKE GOOD ANY DAMAGE RESULTING FROM THE WORK ON THIS PROJECT TO THE SATISFACTION OF THE OWNER AND ENGINEER.
7. THE CONTRACTOR SHALL PROVIDE, MAINTAIN AND TAKE RESPONSIBILITY FOR ALL TEMPORARY BRACING AND SHORING.
8. TYPICAL DETAILS SHOWN ON DRAWINGS SHALL GOVERN THE WORK. IF DETAILS DIFFER ON OTHER DRAWINGS, THE MOST STRINGENT SHALL GOVERN.
9. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
10. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, THE CORING OR CUTTING OF OPENINGS AND HOLES SHOWN ON THE STRUCTURAL DRAWINGS THROUGH THE EXISTING STRUCTURE SHALL NOT CUT ANY REINFORCING BARS. THE CONTRACTOR SHALL LOCATE THE LOCATION, SIZE, LENGTH, ORIENTATION AND POSITION OF EXISTING REINFORCING AND PROVIDE IBI WITH HARD COPIES OF SUCH FOR OUR REVIEW IN THE VICINITY OF THE HOLES AND SLEEVES TO BE CUT OR CORED, AND THE HOLES AND SLEEVES SHALL BE LOCATED TO AVOID CUTTING OF REINFORCING BARS.
11. NEW OPENINGS OR CORING TO BE CUT THROUGH EXISTING FLOOR SLAB OR WALLS SHALL BE CLEARLY MARKED OUT BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY IBI ONCE THE MARKING OUT HAS BEEN COMPLETED SO THAT IBI CAN REVIEW THE PROPOSED LOCATIONS OF ALL NEW OPENINGS. DO NOT PROCEED WITH CUTTING OF NEW OPENINGS WITHOUT THE APPROVAL OF IBI.
12. UNLESS NOTED OTHERWISE ON THE DRAWINGS NEW STRAIGHT SIDED OPENINGS THROUGH EXISTING SLABS AND WALLS SHALL BE SAWCUT WITH NO OVERCUTS. USE CORED HOLES AT THE CORNERS. JACKHAMMERING SHALL NOT BE PERMITTED REFER TO THE DETAILS AND PROCEDURES INDICATED ON THE STRUCTURAL DRAWINGS FOR THE NEW OPENINGS. ALTERNATES TO THE ABOVE PROCEDURE MUST BE REVIEWED BY IBI PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION.

DESIGN CRITERIA:

1. STRUCTURE HAS BEEN DESIGNED TO RESIST WIND AND SEISMIC LOADS WHICH ARE IN ACCORDANCE WITH THE USER'S GUIDE - NBC 2015 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B), FOR THE IMPORTANCE CATEGORY STATED IN NOTE #7. THE WIND AND SEISMIC PARAMETERS FOUND IN NOTE #8, AND FOR SITE CLASS D,  $F_e=1.24$ ,  $F_r=1.55$ ,  $(F_e F_r)(0.2) = 0.273$ ,  $R_d=1.5$ ,  $R_o=1.3$  (CONVENTIONAL CONSTRUCTION OF MOMENT-RESISTING FRAMES AND BRACED FRAMES), AND NO IRREGULARITIES, USING STATIC ANALYSIS IN BOTH DIRECTIONS.
2. ALL LOADS SHOWN ON DRAWINGS ARE SPECIFIED (NO LOAD FACTOR APPLIED) LOADS UNLESS NOTED OTHERWISE. HOWEVER, (ULS) IMPORTANCE FACTORS ARE APPLIED, UNLESS NOTED OTHERWISE.
3. ALL LOADS EFFECTS (AXIAL FORCES, SHEARS, MOMENTS AND TORSIONS) ARE FACTORED, UNLESS OTHERWISE NOTED.
4. DESIGN SPECIFIED (UNFACTORED) DEAD AND LIVE LOADS ARE SHOWN IN THE SPECIFIED DESIGN LOADS TABLE ON APPLICABLE DRAWINGS
5. STRUCTURES ARE NOT STABLE UNTIL ALL COMPONENTS (INCLUDING BUT NOT LIMITED TO MOMENT CONNECTIONS, BRACING, FLOOR & ROOF DECK AND SHEATHING) ARE CONSTRUCTED.
6. MATERIALS:

STRUCTURAL STEEL: CAN/CSA-G40-20/G40.21, GRADE 350W FOR W-SECTIONS. GRADE 300W FOR OTHERS.

COLD-FORMED STEEL: YIELD STRENGTH = 350 MPa MIN.

HOLLOW STRUCTURAL SECTIONS (HSS): CONFORM TO CAN/CSA G40-20/G40.21-M GRADE 350W, CLASS C.

WELDING: E49XX ELECTRODES.

BOLTS, NUTS AND WASHERS: CONFORM TO ASTM A325.

ANCHOR BOLTS: CONFORM TO ASTM F1554 GRADE 36, UNLESS NOTED OTHERWISE.

PRIMER: SEE SPECIFICATION.

REINFORCING STEEL: DEFORMED CONCRETE REINFORCING BARS CONFORMING TO CAN/CSA-G30.18, GRADE 400R OR 400W, UNLESS NOTED OTHERWISE. WHERE WELDABLE REINFORCING STEEL IS SPECIFIED, IT SHALL BE GRADE 400W, UNLESS NOTED OTHERWISE.

WOOD: LUMBER: GRADED TO NLGA RULES NO.1/NO.2 S-DRY, UNLESS NOTED OTHERWISE. MSR GRADE FOR TRUSSES AS REQUIRED.

GLULAM: CSA 0122 SP GRADE 20FC BENDING STRESS, UNLESS NOTED OTHERWISE. 12CE COMPRESSION STRESS, UNLESS NOTED OTHERWISE.

PLYWOOD: CSA 0151 SOFTWOOD EXTERIOR GRADE.

7. STRUCTURE HAS BEEN ASSIGNED THE **NORMAL** IMPORTANCE CATEGORY, AS DEFINED IN THE APPLICABLE EDITION OF THE ONTARIO BUILDING CODE.
8. STRUCTURES HAVE BEEN DESIGNED CONSIDERING THE FOLLOWING CLIMATIC AND SEISMIC DATA:
- | WIND                     | SEISMIC   | SNOW                                       | RAIN                   |
|--------------------------|---|--|------------------------|
| q 1/50 = <b>0.44</b> kPa | Sa(0.2) = <b>0.220</b><br>Sa(0.5) = <b>0.130</b><br>Sa(1.0) = <b>0.067</b><br>Sa(2.0) = <b>0.021</b><br>PGA = <b>0.12</b> | Ss = <b>0.9</b> kPa<br>Sr = <b>0.4</b> kPa | ONE DAY = <b>97</b> mm |
9. THE STRUCTURE HAS BEEN DESIGNED FOR FUTURE EXPANSION AS SHOWN.
10. NO STRUCTURES HAVE BEEN DESIGNED FOR FUTURE EXPANSION.

CONCRETE:

1. THE DESIGN AND CONSTRUCTION OF ALL WORK ON THIS PROJECT SHALL CONFORM TO THE APPLICABLE EDITION OF THE FOLLOWING CSA STANDARDS:  
CSA-A23.1 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION";  
CSA-A23.2 "TEST METHODS AND STANDARD PRACTICES FOR CONCRETE";  
CSA-A23.3 "DESIGN OF CONCRETE STRUCTURES";  
CAN/CSA-G30.18 "BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT".
2. UNLESS NOTED OTHERWISE, MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS:

- LEAN CONCRETE FILL ..... **15 MPa**

- MUD SLAB ..... **15 MPa** (EXPOSURE CLASS F-1)

- FOOTINGS ..... **35 MPa** (EXPOSURE CLASS C-1)

- PIERS, WALLS & CURBS ..... **35 MPa** (EXPOSURE CLASS C-1)

- SLABS ON GRADE (INTERIOR) ..... **32 MPa** (EXPOSURE CLASS N-CF)

- SLABS ON GRADE (EXTERIOR) ..... **35 MPa** (EXPOSURE CLASS C-1)

- EXTERIOR APRONS..... **35 MPa** (EXPOSURE CLASS C-1)
3. MINIMUM CONCRETE COVER TO REINFORCING BARS:

CONCRETE CLEAR COVER (CSA A23.1)			
EXPOSURE CONDITION	EXPOSURE CLASS		
	N	F-1	C-1
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, INCLUDING FOOTINGS AND PILES	75 mm	75 mm	75 mm
BEAMS, GIRDERS, COLUMNS AND PILES	30 mm (#1)	40 mm	60 mm
SLABS, WALLS, JOISTS, SHELLS AND FOLDED PLATES	20 mm (#1)	40 mm	60 mm
RATIO OF COVER TO NOMIMAL BAR DIAMETER (#2)	1.0 (#1)	1.5	2.0
RATIO OF COVER TO NOMIMAL MAXIMUM AGGREGATE SIZE	1.0 (#1 & #3)	1.5	2.0

- NOTES:
- #1. THIS REFERS ONLY TO CONCRETE THAT WILL BE CONTINUALLY DRY WITHIN THE CONDITIONED SPACE (i.e., MEMBERS ENTIRELY WITHIN THE VAPOUR BARRIER OF THE BUILDING ENVELOPE).
- #2. THE COVER FOR A BUNDLE OF BARS SHALL BE THE SAME AS THAT FOR A SINGLE BAR WITH AN EQUIVALENT AREA.
- #3. THE SPECIFIED COVER FROM SCREEDED SURFACES SHALL BE AT LEAST **1.5** TIMES THE NOMINAL MAXIMUM AGGREGATE SIZE TO REDUCE INTERFERENCE BETWEEN AGGREGATE AND REINFORCEMENT WHERE VARIATIONS IN BAR PLACEMENT RESULT IN A COVER SMALLER THAN SPECIFIED.
4. DETAIL, BEND, PLACE AND SUPPORT REINFORCING STEEL IN CONFORMANCE WITH THE LATEST RSIC MANUAL OF STANDARD PRACTICE, UNLESS NOTED OTHERWISE.
5. ALTERNATE 90° HOOKS OF CROSSTIES END FOR END OVER HEIGHT OF ALL MEMBERS IN WHICH CROSSTIES ARE SPECIFIED.
6. ALL LAP SPLICES SHALL BE CLASS B TENSION SPLICES. FOR HORIZONTAL REINFORCEMENT THAT WILL BE PLACED IN SUCH A WAY THAT MORE THAN 300 mm OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE, BAR LOCATION FACTOR (k/1) EQUAL TO 1.3 SHALL BE APPLIED IN DETERMINING CLASS B TENSION SPLICE LENGTH, IN ACCORDANCE WITH APPLICABLE EDITION OF CSA-A23.3.
7. PLAIN (UNREINFORCED) CONCRETE EXPOSED TO DEICING CHEMICALS SHALL MEET EXPOSURE CLASS C-2 IN ACCORDANCE WITH APPLICABLE EDITION OF CSA-A23.1.
8. REINFORCED CONCRETE EXPOSED TO CHLORIDES SHALL MEET EXPOSURE CLASSIFICATION C-1 IN ACCORDANCE WITH APPLICABLE EDITION OF CSA-A23.1.
9. PROVIDE CORROSION INHIBITOR IN ALL CONCRETE OF EXPOSURE CLASS C-1. REFER TO SPECIFICATIONS FOR CORROSION INHIBITOR DOSAGE RATE.
10. USE TYPE GU PORTLAND CEMENT FOR ALL CONCRETE, UNLESS NOTED OTHERWISE.
11. ALL HORIZONTAL WALL AND GRADE BEAM REINFORCING SHALL BE CONTINUOUS THROUGH PIERS. UNLESS NOTED OTHERWISE, SPLICE TOP BARS AT MID-SPAN AND BOTTOM BARS AT SUPPORTS FOR ALL GRADE BEAMS.
12. WHEREVER OPENINGS OCCUR, INTERRUPTING ONE OR MORE REINFORCING BARS, IN SLABS OR WALLS, PROVIDE ADDITIONAL REINFORCING STEEL EQUAL TO THE REINFORCING STEEL DISPLACED BY THE OPENING UNLESS OTHERWISE SHOWN. DISTRIBUTE REINFORCEMENT EQUALLY ON EACH SIDE OF THE OPENING AND EXTENDING THE FULL SPAN LENGTH.
13. NO SLEEVES, PIPES, HOLES OR NOTCHES SHALL BE PLACED IN OR THROUGH WALLS, COLUMNS, PIERS, BEAMS, GRADE BEAMS, SLABS, FOOTINGS, OR ANY OTHER CONCRETE MEMBER, EXCEPT AS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
14. DO NOT PLACE CONCRETE FOOTINGS OR ANY OTHER CONCRETE MEMBER UNTIL ALL DESIGNATED REINFORCING STEEL HAS BEEN PLACED AND INSPECTED AND ANY CONDUITS, PIPING OR OTHER EMBEDDED ITEMS ARE INSTALLED AND VERIFIED.
15. MINIMUM WATER-TO-CEMENTING MATERIALS RATIO (w/cm) SHALL BE 0.55, AND MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 25 MPa FOR ALL CONCRETE FLOOR SLABS (BOTH SLABS ON GRADE AND SLABS ON DECK).

FOUNDATION:

1. ALL **INT.** FOOTINGS SHALL BEAR ON NATIVE MATERIAL OR ENGINEERED FILL WITH MINIMUM SLS BEARING RESISTANCE OF **150** kPa AND MINIMUM ULS BEARING RESISTANCE OF **250** kPa, NOTED OTHERWISE.
2. ALL **EXT.** FOOTINGS SHALL BEAR ON SUITABLE FOUNDING MATERIAL WITH MINIMUM SLS BEARING RESISTANCE OF **150** kPa, MINIMUM ULS BEARING RESISTANCE OF **250** kPa, FRICTION ANGLE OF AT LEAST **35 °** AND MINIMUM FACTORED SLIDING RESISTANCE OF **150**. MAX. ALLOWABLE TOTAL SETTLEMENT TO BE **25** mm. MAX. ALLOWABLE DIFFERENTIAL SETTLEMENT TO BE **25** mm.
3. **ALL** BEARING VALUES AND GEOTECHNICAL INFORMATION ARE BASED ON GEOTECHNICAL REPORT **SEE PER BUILDING NOTES IF APPLICABLE**
4. THE CONTRACTOR SHALL PROTECT SOIL FROM WATER AND FREEZING ADJACENT TO AND BELOW ALL FOOTINGS, GRADE BEAMS AND OTHER CONCRETE POURS WITH MINIMUM 1200 mm SOIL COVER OR EQUIVALENT.
5. ALL EXCAVATIONS AND FOUNDING MATERIAL SHALL BE INSPECTED AND APPROVED BY A QUALIFIED SOILS ENGINEER PRIOR TO CONCRETE PLACEMENT.
6. THE CONTRACTOR SHALL PROVIDE ALL SHORING WHERE REQUIRED DURING EXCAVATION TO PREVENT CAVE-IN.
7. EXCAVATION SHALL NOT EXTEND BELOW A LINE EXTENDING DOWN AND AWAY FROM ANY FOOTING EDGE OR CORNER AT A RATIO OF 7 VERTICAL TO 10 HORIZONTAL.
8. ANY OVER EXCAVATION NECESSITATED BY LOCAL SOFT AREAS OR OTHER DELETERIOUS CONDITIONS SHALL BE MADE GOOD WITH 15 MPa LEAN CONCRETE FILL.
9. FOUNDATION WALL BACKFILL SHALL BE OPSS TYPE 1 GRANULAR 'B' OR APPROVED FREE-DRAINING, IN-SITU MATERIAL COMPACTED, IN LAYERS NOT TO EXCEED 200 mm, TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.
10. BACKFILL TO PROCEED SIMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WALLS UNLESS TEMPORARY SUPPORT IS PROVIDED. DO NOT BACKFILL UNTIL CONCRETE HAS ATTAINED 75% OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
11. CONSTRUCTION JOINTS AND CONTROL JOINTS IN REINFORCED FOUNDATION WALLS SHALL BE LOCATED AT THE EDGE OF PIERS (WHERE PIERS ARE PRESENT). MAXIMUM SPACING OF CONSTRUCTION JOINTS SHALL BE AS REQUIRED, BUT NOT GREATER THAN 20 m, UNLESS NOTED OTHERWISE. MAXIMUM SPACING OF CONTROL JOINTS SHALL BE 6 m, AND 3 m FROM CORNERS.
12. FOUNDATIONS SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL INCLUDE IN THEIR WORK ALL PROVISIONS, INCLUDING BUT NOT LIMITED TO EXCAVATION AND FORMING, AS REQUIRED TO CONSTRUCT FOUNDATIONS THUS.

SLAB ON GRADE & PAD:

1. SEE PLAN FOR SLAB ON GRADE & PAD THICKNESS.
2. PLACE SLAB ON GRADE ON MIN. **200** mm OPSS GRANULAR 'A' COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
3. PRIOR TO PLACING GRANULAR FILL MATERIALS, PROOF-ROLL EXISTING SUB-GRADE TO IDENTIFY INCONSISTENCIES OR SOFT AREAS. PROCEED WITH GRANULAR PLACEMENT ONLY AFTER THESE AREAS HAVE BEEN REWORKED AND COMPACTED TO THE SATISFACTION OF THE SOILS ENGINEER.
4. DO NOT PLACE CONCRETE UNTIL ALL ELECTRICAL, MECHANICAL AND PROCESS CONDUITS, PIPING OR OTHER EMBEDDED SERVICES ARE INSTALLED AND VERIFIED.
5. AGREE ON LOCATION OF CONSTRUCTION JOINTS WITH ENGINEER PRIOR TO CONSTRUCTION.
6. PROVIDE SAWCUT CONTROL JOINTS AS SHOWN ON PLANS.
7. PROVIDE EXTERIOR COLUMN ISOLATION JOINTS AND SAWCUTTING AS PER DETAILS SHOWN.
8. PERFORM SAWCUTTING FOR CONTROL JOINTS USING DRY METHOD (SOFF-CUT SAW) AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT WITHOUT LEAVING TREAD MARKS, DISLODGING AGGREGATE AND BEFORE UNCONTROLLED SHRINKAGE OCCURS. FILL CONTROL JOINTS, AS SPECIFIED, NO SOONER THAN 120 DAYS AFTER CONCRETE PLACEMENT.
9. FLOOR FINISH: SEE SPECIFICATIONS.

METAL DECK:

1. ALL METAL DECK SHALL BE NEW AND SHALL BE DESIGNED, FABRICATED AND INSTALLED TO CONFORM TO THE REQUIREMENTS OF THE APPLICABLE EDITION OF CAN/CSA-S136 "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS (USING THE APPENDIX B PROVISIONS APPLICABLE TO CANADA)" AND THE REQUIREMENTS OF THE CANADIAN SHEET STEEL BUILDING INSTITUTE.
2. ALL ROOF AND FLOOR DECK SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO, AND SHALL BE OF THICKNESS REQUIRED TO SUPPORT ALL LOADS AND EFFECTS SHOWN ON DRAWINGS BUT SHALL NOT BE LESS THAN THAT SHOWN ON DRAWINGS. AFOREMENTIONED DESIGN SHALL INCLUDE APPLICABLE SEISMIC LOADS & EFFECTS. REFER TO SPECIFICATION FOR COATING.
3. SPAN DECK UNITS OVER FOUR OR MORE STRUCTURAL SUPPORTS (MINIMUM 3 CONTINUOUS SPANS) FOR INCREASED RIGIDITY.
4. DESIGN AND CONNECT METAL EDGE AND CLOSURE STRIPS TO SAFELY RESIST CONSTRUCTION LOADS AND PREVENT THE LOSS OF CONCRETE/GROUT WHEN DECK IS CONCRETED.
5. PLACE DECK IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS. END LAPS SHALL ALWAYS OCCUR OVER SUPPORTS. SIDE LAPS SHALL BE ON HALF CORRUGATION. MINIMUM ROOF DECK END LAP IS 50 mm FOR WELDED ATTACHMENT.
6. ALL CONNECTIONS OF ROOF DECK TO SUPPORTING STRUCTURE SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO TO RESIST ALL LOADS AND EFFECTS SHOWN ON DRAWINGS, BUT SHALL NOT BE LESS THAN THAT SHOWN ON DRAWINGS.
7. ATTACH DECK UNITS TO TOP OF SUPPORTS BY FUSION WELDS WITH A MINIMUM EFFECTIVE DIAMETER OF 19 mm. MAXIMUM SPACING OF FUSION WELDS AND SIDE LAP BUTTON CLINCH SHALL BE AS FOLLOWS:

- WELDS AT 150 C/C (EACH FLUTE) TRANSVERSE TO SPAN OF DECK AND AROUND PERIMETER

- LONGITUDINAL WELDS @ 600 C/C

- SIDE LAP BUTTON CLINCH @ 300 C/C
8. FIELD CUTTING OF DECK UNITS SHALL BE DONE IN WORKMANLIKE MANNER. CUT OPENINGS AND REINFORCE EDGES AS REQUIRED FOR PIPES, DUCTS, ETC. THE MAXIMUM SIZE OF AN UNREINFORCED OPENING IS 150 mm SQUARE OR IN DIAMETER. ROOF OPENINGS LARGER THAN 450 mm WIDE AND FLOOR OPENINGS LARGER THAN 300 mm WIDE SHALL BE SUPPORTED BY STEEL FRAMING.
9. DESIGN METAL ROOF DECK FOR MAXIMUM LIVE, SNOW AND RAIN LOAD DEFLECTIONS OF **L/360**.

MASONRY:

1. THE DESIGN AND CONSTRUCTION OF ALL WORK ON THIS PROJECT IS TO CONFORM TO APPLICABLE EDITION OF CSA STANDARDS CSA-S304.1, CSA-A370, CSA-A371, CSA-A179 AND CAN/CSA-G30.18. PROVIDE TYPE S MORTAR IN ACCORDANCE WITH APPLICABLE EDITION OF CSA STANDARD CSA-A179.
2. PROVIDE STANDARD, HOLLOW 15 MPa CONCRETE BLOCK UNITS UNLESS NOTED OTHERWISE. AT LOCATIONS WHERE VERTICALLY-REINFORCED MASONRY IS SPECIFIED, PROVIDE ONE ADDITIONAL VERTICAL BAR OF SIZE EQUAL TO DISTRIBUTED VERTICAL REINFORCING, FULL HEIGHT AT EACH SIDE OF CONTROL JOINTS, AND AT CORNERS, INTERSECTIONS, ENDS OF WALLS AND TO EACH SIDE OF ALL OPENINGS, UNLESS NOTED OTHERWISE. PROVIDE 2 ADDITIONAL BARS WHERE OPENING WIDTH IS GREATER THAN 1200 mm. PROVIDE MATCHING DOWELS TO FOOTING, SLAB THICKENING, SLAB ON DECK OR OTHER SUPPORTING STRUCTURE, FOR ALL VERTICAL WALL REINF. (TYP: UN).
3. FOR HIGH-LIFT GROUTING, PROVIDE CLEAN-OUT HOLES IN BOTTOM COURSE AND MINIMUM SLUMP OF 200 mm.
4. MASONRY GROUT SHALL BE FINE GROUT, AND SHALL BE PROPORTIONED ACCORDING TO, AND MEET ALL REQUIREMENTS OF APPLICABLE EDITION OF CSA-A179.
5. PROVIDE CONTINUOUS, HORIZONTAL, STANDARD LADDER-TYPE HORIZONTAL JOINT REINFORCEMENT @ 400 mm C/C, IN BOTTOM TWO BED JOINTS, TOP TWO BED JOINTS AND FIRST BED JOINT. ABOVE AND BELOW ALL WALL OPENINGS, ALL SUCH REINF. SHALL BE SPLICED USING CLASS B TENSION LAP SPLICES (AS DEFINED IN APPLICABLE EDITION OF CSA-S304.1). PREFABRICATED CORNER AND INTERSECTION JOINT REINFORCING PIECES SHALL BE USED. MINIMUM WIRE DIAMETER TO BE 3.65 mm.
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY WALLS.
7. PROVIDE VERTICAL REINFORCING IN ALL MASONRY WALLS AS PER TABLE ON SPECIFIC BLD. DRAWING ALL REINFORCED CORES SHALL BE GROUTED SOLID FOR FULL HEIGHT OF WALLS. VERTICALLY- CANTILEVERED WALLS SHALL BE CONSTRUCTED OF SOLID-GROUTED MASONRY.
8. PROVIDE VERTICAL REINFORCING AT EACH LATERAL SUPPORT LOCATION (SEE BLD. SPECIFIC DRW.)
9. LAP ALL 15M BARS 675 mm MINIMUM. LAP ALL 20M BARS 850 mm MINIMUM.
10. UNLESS NOTED OTHERWISE, MINIMUM CLEARANCE OF XX mm SHALL BE PROVIDED BETWEEN MASONRY WALLS AND STEEL COLUMNS, BEAMS, GIRDERS, JOIST AND GIRTS. THIS REQUIREMENT DOES NOT APPLY WHERE MASONRY IS INTENDED (BY DESIGN) TO BEAR ON STEEL MEMBER.
11. WHERE POST-INSTALLED ANCHORS ARE INSTALLED IN MASONRY ELEMENTS/MEMBERS, EXISTING REINFORCING STEEL (INCLUDING HORIZONTAL BED JOINT REINFORCING), CAST-INS AND EMBEDDED ITEMS SHALL BE ACCURATELY LOCATED, AND EDGE OF ANCHOR HOLES SHALL BE LOCATED A DISTANCE AWAY FROM EXISTING REINFORCING STEEL (INCLUDING HORIZONTAL BED JOINT REINFORCING), CAST-INS END EMBEDDED ITEM SUCH THAT AT LEAST MINIMUM CONCRETE COVER REQUIREMENTS (SEE MASONRY NOTE #1) ARE MET. EXISTING REINFORCING STEEL (INCLUDING HORIZONTAL BED JOINT REINFORCING), CAST-INS AND EMBEDDED ITEMS SHALL NOT BE DAMAGED ANCHORING ACTIVITIES, INCLUDING DRILLING.

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ISSUES

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A	50% SUBMISSION	2022-01-20
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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

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SHEET TITLE

STRUCTURAL - GENERAL  
NOTES

SHEET NUMBER

G21-GAL-G2000

ISSUE

B



REINFORCING STEEL

- 1 ALL REINFORCING STEEL SHALL CONFORM TO CAN/CSA-G30.18-M-2009 (R2014), GRADE 400W.
- 2 MINIMUM CLEAR SPACING BETWEEN PARALLEL REINFORCING BARS SHALL BE 1.4 TIMES THE BAR DIAMETER, 1.4 TIMES THE MAX. AGGREGATE SIZE OR 30mm WHICHEVER IS GREATER. PROVIDE 75mm MINIMUM LAPPED REBAR CLEARANCE FOR CONCRETE VIBRATOR ACCESS.
- 3 DEVELOPMENT LENGTHS AND LAP SPLICES SHALL BE IN ACCORDANCE WITH THE REINFORCING STEEL INSTITUTE OF CANADA, MANUAL OF STANDARD PRACTICE UNLESS INDICATED OTHERWISE. ALL LAP SPLICES SHALL BE CLASS 'B' TENSION LAP SPLICES AND CLASS 'B' TENSION LAP SPLICES SHALL BE PROVIDED FOR ALL SHRINKAGE AND TEMPERATURE BARS. WHERE TWO BARS OF DIFFERENT DIAMETERS ARE LAPPED, PROVIDE CLASS 'B' TENSION LAP LENGTH CORRESPONDING TO THE SMALLER BAR BUT NO LESS THAN FULL TENSION DEVELOPMENT LENGTH OF THE LARGER BAR.
- 4 PROVIDE EMBEDMENT LENGTH FOR FULL TENSION DEVELOPMENT IN ACCORDANCE WITH CSA A23.3
- 5 DEVELOPMENT LENGTH AND SPLICE LENGTH FOR  $F_y = 400\text{MPa}$  AND  $F'_c = 35\text{MPa}$  TO BE AS PER TABLE BELOW, UNLESS OTHERWISE SHOWN ON DRAWINGS.

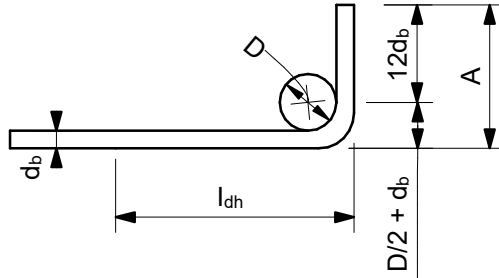
		fc' = 35MPa		fy = 400MPa			
BAR SIZE	TENSION STEEL				COMPRESSION STEEL		
	HORIZONTAL TOP BARS*		ALL OTHER BARS**				
	DEVELOPMENT	SPLICES	DEVELOPMENT	SPLICES	DEVELOPMENT	LAP SPLICES	
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
10	360	470	280	370	200	330	
15	510	670	390	510	290	470	
20	620	810	480	630	350	590	
25	1000	1300	770	1010	450	740	
30	1190	1550	910	1190	530	880	
35	1420	1850	1090	1420	630	1050	
45	-	-	-	-	800	-	

REFERENCE: CAN/CSA A23.3-14  
db= MAX. OF NORMAL AND ACTUAL BAR DIAMETER  
\* HORIZONTAL TOP BARS WITH MORE THAN 300mm OF FRESH CONCRETE POURED BELOW THE BARS. AND WALL HORIZONTAL REINFORCEMENT.  
\*\* HORIZONTAL BARS WITH NOT MORE THAN 300mm OF FRESH CONCRETE POURED BELOW THE BARS, VERTICAL BARS.

- 6 STANDARD 90° HOOK TO CONFORM TO A23.3 AND THE FOLLOWING TABLE, WHICHEVER IS MORE STRINGENT, UNLESS OTHERWISE SHOWN ON DRAWINGS.

STANDARD 90° HOOK DIMENSION

$f'_c = 35\text{MPa}$		$f_y = 400\text{MPa}$	
BAR SIZE	D***	A	$l_{db}$ ****
$d_b$			
(mm)	(mm)	(mm)	(mm)
10M	70	190	150
15M	100	260	190
20M	120	320	240
25M	150	410	300
30M	250	520	360
35M	300	620	430



90° HOOK SEE A23.3  
\*\*\* SEE A23.1, TABLE 16  
\*\*\*\* SEE A23.3, §12.5.1, §12.5.3 (b) =  $0.7 \times 100d_b / f'_c^{0.5} > 150$  OR  $8 d_b$ .

STRUCTURAL STEEL:

1. THE DESIGN AND CONSTRUCTION OF ALL WORK IN THIS PROJECT SHALL CONFORM TO THE APPLICABLE EDITION OF CAN/CSA-S16.
2. ALL SHOP CONNECTIONS SHALL BE WELDED. ALL FIELD CONNECTIONS SHALL BE WELDED OR BOLTED USING HIGH TENSILE-STRENGTH BOLTS, BEARING TYPE. WHERE APPLICABLE, AND UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE CISC DOUBLE ANGLE BEAM CONNECTIONS FOR A325 BOLTS AND E49XX FILLET WELDS. MINIMUM SIZE OF BOLTS - M20 DIAMETER.
3. ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH APPLICABLE EDITION OF FOLLOWING CSA STANDARDS:  
- W47.1 FOR QUALIFICATIONS OF WELDERS  
- W48.1 TO W48.7 FOR ELECTRODES  
- W59 FOR DESIGN AND WORKMANSHIP
4. ALL COLUMN ENDS SHALL BE SAWCUT AND WELDED TO BASE/CAP PLATES.
5. ALL COLUMNS TO HAVE ANGLES AT TOP TO SUPPORT STEEL DECK WHERE REQUIRED.
6. BRACING MEMBERS SHALL BE CONNECTED FOR THE FOLLOWING (WHICHEVER IS LARGER):  
- 50% OF THE NOMINAL TENSION CAPACITY OF THE MEMBER BASED ON GROSS AREA  
- FORCES AS SHOWN ON THE DRAWINGS  
- A MINIMUM OF TWO BOLTS
7. FOR DOUBLE-ANGLE BRACING (E.G. CROSS-BRACING), ANGLES SHALL HAVE INTERCONNECTING BATTENS AND/OR SPACERS SUCH THAT SLENDERNESS RATIO OF INDIVIDUAL ANGLES (BASED ON LEAST RADIUS OF GYRATION OF INDIVIDUAL ANGLES) DOES NOT EXCEED SLENDERNESS RATIO OF BUILT-UP (DOUBLE-ANGLE) MEMBER.
8. THE CONTRACTOR SHALL SUPPLY, INSTALL, MAINTAIN AND REMOVE ANY TEMPORARY BRACING REQUIRED DURING CONSTRUCTION.
9. FORCES ARE DESIGNATED BY (+) FOR TENSION AND (-) FOR COMPRESSION.
10. CONNECTIONS FOR BEAMS, GIRDERS AND JOISTS SUBJECT TO AXIAL FORCES SHALL BE DESIGNED FOR THE AXIAL FORCES IN ADDITION TO THE SHEAR FORCES, MOMENT FORCES/EFFECTS AND TORSION FORCES/EFFECTS. FORCES INDICATED ARE FACTORED AND IN KN. MOMENTS AND TORSIONS INDICATED ARE FACTORED AND IN KN-m.
11. ALL EXTERIOR STEEL, AND STEEL THAT IS NOT IN A TEMPERATURE AND HUMIDITY CONTROLLED ENVIRONMENT, SHALL BE HOT-DIPPED GALVANIZED (BOTH STRUCTURAL STEEL AND MISCELLANEOUS STEEL). THIS SHALL INCLUDE NUTS, BOLTS, WASHERS, BASE PLATES, LEVELING PLATES, ANCHOR BOLTS AND ANCHORS.
12. FILLER BEAMS AND JOISTS SHALL BE PLACED EQUALLY BETWEEN ESTABLISHED DIMENSIONS, UNLESS NOTED OTHERWISE.
13. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AND GIRDERS AT POINTS OF CONCENTRATED LOAD, INCLUDING BEAMS AND GIRDERS SUPPORTING COLUMNS OR RUNNING OVER TOPS OF COLUMNS. MINIMUM STIFFENER PLATE THICKNESS SHALL BE 10 mm OR FLANGE THICKNESS OF COLUMNS ABOVE OR BELOW, WHICHEVER IS GREATER. MINIMUM SIZE OF WELD SHALL BE 5 mm DOUBLE FILLET WELD, OR SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE STIFFENER, WHICHEVER IS GREATER.
14. FOR LOCATIONS OF DOOR FRAMES, WALL OPENINGS, ROOF AND FLOOR OPENINGS, ETC., AND RELATED DETAILS, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PROCESS & CIVIL DRAWINGS.
15. SHOWN ON PLANS DENOTES AXIAL LOADS ALONG BEAMS AND GIRDERS DUE TO WIND OR EARTHQUAKE LOADS. DESIGN BEAM-TO-BEAM, BEAM-TO-GIRDER AND GIRDER-TO-GIRDER CONNECTIONS, AS WELL AS BEAM-TO-COLUMN AND GIRDER-TO-COLUMN CONNECTIONS FOR THESE LOADS IN COMBINATION WITH APPLICABLE GRAVITY LOADS.
16. PERIMETER ROOF ANGLE SHALL BE CONTINUOUS AND BUTT WELDED TOGETHER AT JOINTS. ENSURE CONNECTION OF PERIMETER ANGLE TO SUPPORTING STRUCTURE IS SUFFICIENT TO RESIST MAXIMUM UNIT SHEAR FROM DECK DIAPHRAGM. REFER TO ROOF-DIAPHRAGM SHEAR DIAGRAM ON DRAWINGS
17. ALL WELDABLE REINFORCING STEEL ANCHORS SHALL BE WELDED TO BASE PLATES/BEARING PLATES TO FULLY DEVELOP BARS IN TENSION.
18. REFER TO SPECIFICATIONS FOR BEAM AND GIRDER CAMBER REQUIREMENTS.

ABBREVIATIONS:

2L	two angles	HP	high point
AB	anchor bolt	HS	high strength
ADD	addendum	ID	inside diameter
ADJ	adjacent	IE	invert elevation
AFF	above finished floor	IF	inside face
AHU	air handling unit	IN	inches
ALT	alternate	INCL	include
ANC	anchor	INFO	information
APPROX	approximate	JT	joint
ARCH	architectural	KN	kilnewton
ASTM	American Society for Testing and Materials	kNm	kilnewton meter
B/B	back to back	kPa	kilopascal
BC	bottom chord	L	length
BET	between	LB	pound
BLDG	building	LG	long
BLK	block	LL	live load
BM	beam	LLBB	long legs back-to-back
BOF	bottom of footing	LLH	long leg horizontal
BOS	bottom of steel	LLV	long leg vertical
BOT	bottom	LO	louver opening
BRG	bracing	LP	low point
BRCG	bearing	LS	louver sill
BRKT	bracket	m	metre
BSMT	basement	MACH	machine
CA	column above	MAX	maximum
CB	column below	MECH	mechanical
C/C	center to center	MEZZ	mezzanine
CERT	certified	MFR	manufacturer
CHKD PL	checkered plate	MIN	minimum
CIP	cast in place	MISC	miscellaneous
CJ	construction joint	mm	millimetre
CL	centerline	MT	metric ton
CLJ	control joint	NIC	not in contract
CLR	clear	NO	number
COL	column	NTS	not to scale
CONC	concrete	O/O	out to out
CONN	connection	OPNG	opening
CONSTR	construction	OPP	opposite
CONT	continuation (continuous)	PC	piece
CONTR	contractor	PEN	penetration
CSA	Canadian Standards Association	PL	plate
CT	cooling tower	PROJ	projection
CTR	center	PSF	pounds per square foot
C/W	complete with	PSI	pounds per square inch
DET	detail	R	radius
DIA	diameter	RCB	reinforced concrete beam
DIAG	diagonal	REF	reference
DIM	dimension	REINF	reinforcement
DL	dead load	REMV	removable
DO	door opening	REQD	required
DWG	drawing	RR	railroad
DWL	dowel	R/W	reinforced with
EA	each	SCH	schedule
EF	each face	SECT	section
ELEV	elevation	SIM	similar
ELEC	electrical	SOG	slab on grade
EMB	embedment	SP	space
EQ	equal	SPEC	specifications
EQPT	equipment	SQ	square
EW	each way	SSC	structural steel contract
EXP	expansion	STAGG	staggered
EX	existing	STD	standard
EXT	exterior	STIFF	stiffener
FDN	foundation	STL	steel
FDNC	foundation contract	STRU	structural
FIN	finish	SYM	symmetrical
FL	floor	t	thickness
FLG	flange	T	tread
FT	feet	T&B	top and bottom
FTG	footing	TC	top chord
FUT	future	TEMP	temperature
GA	gauge	THK	thick
GC	general contract	TL	total load
GALV	galvanized	TOF	top of footing
GENL	general	TOS	top of steel
GOL	gauge outstanding leg	TYP	typical
GR	grade	UON	unless otherwise noted
GRT	grating	VERT	vertical
H	high	VIF	vertical inside face
HEF	horizontal each face	VOF	vertical outside face
HGR	hanger	W	width (wide)
HGT	height	W	width
HH	hooked-hooked	W/O	without
HIF	horizontal inside face	WP	working point
HOF	horizontal outside face	WPL	wall plate
HORIZ	horizontal	WS	water stop
		WT	weight
		WWF	welded wire fabric

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A	50% SUBMISSION	2022-01-20
B	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
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9119- 19- 0162 / IBI 122260

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SHEET TITLE  
STRUCTURAL - GENERAL  
NOTES, SYMBOLS &  
ABBREVIATIONS

SHEET NUMBER

G21-GAL-G2002

ISSUE

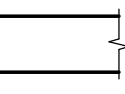
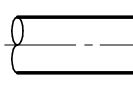
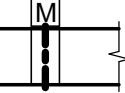
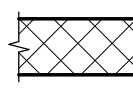
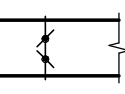
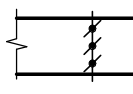
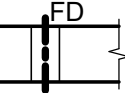
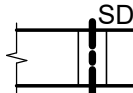
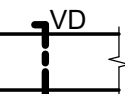
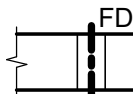

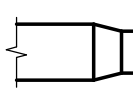
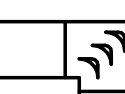
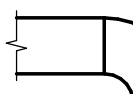

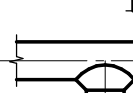



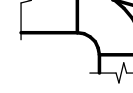
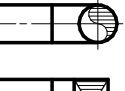
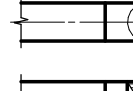
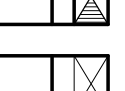


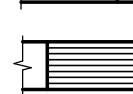

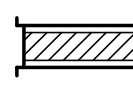
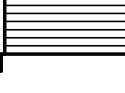
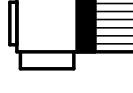
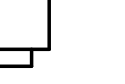

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SCALE CHECK

SHEET TITLE	
MECHANICAL LEGEND	
SHEET 1 OF 2	
SHEET NUMBER	ISSUE
G21-GAL-G3001	C

HEATING, VENTILATION AND AIR CONDITIONING		EQUIPMENT IDENTIFICATION																																																																																																													
		ITEM	UNIT COUNTER																																																																																																												
	DUCTWORK (RECTANGULAR)		DUCTWORK (ROUND)																																																																																																												
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ABBREVIATION			
A.F.F.	ABOVE FINISHED FLOOR	INV. EL.	INVERT ELEVATION
B.O.D.EL.	BOTTOM OF DUCT ELEVATION	N.C.	NORMALLY CLOSED
B.O.P.EL.	BOTTOM OF PIPE ELEVATION	NFRH	NON-FREEZE ROOF HYDRANT
☉ EL.	CENTER LINE OF PIPE ELEVATION	N.I.C.	NOT IN CONTRACT
C.C.	COOLING COIL	N.O.	NORMALLY OPENED
CO	CLEANOUT	O.A.	OUTSIDE AIR
CTE	CONNECT TO EXISTING	O.B.B.	OPPOSED BLADE BALANCING
CW	COLD WATER (DOMESTIC)	O.E.D.	OPEN ENDED DUCT
DWH	DOMESTIC WATER HEATER (STORAGE TANK)	PHC	PREHEAT COIL
DWH-I	DOMESTIC WATER (INSTANTANEOUS)	R.A.	RETURN AIR
E.A.	EXHAUST AIR	RHC	REHEAT COIL
F.F.L.	FINISHED FLOOR LEVEL	RWL	RAINWATER LEADER
F.M.S.	FLOW MEASURING STATION	S.A.	SUPPLY AIR
F.U.	FUXTURE UNITS	T.O.D.	TOP OF DUCT
HW	HOT WATER (DOMESTIC)	T.O.P.	TOP OF PIPE
		U.C.	UNDER CUT
HWR	HOT WATER RETURN	U/S	UNDER SIDE



CONTROLS POINT FUNCTION ABBREVIATION									
FIRST LETTER		SECOND LETTER		THIRD LETTER		FOURTH LETTER			
A	AIR	A	H-O-A STATUS	H	HIGH	H	HIGH		
C	COMPRESSED GAD	C	CLOSE	L	LOW	L	LOW		
D	DAMPER	E	VOLTAGE	X	TRASMITTER				
E	EQUIPMENT	F	FIRE (ALARM) SMOKE	Z	INDICATING TRANSMITTER				
G	NATURAL GAS	FL	FLOW	D	DIFFERENTIAL				
L	LIQUID	H	HUMIDITY						
S	STEAM	I	CURRENT						
V	VALVE	L	LEVEL						
M	MISCELLANEOUS	O	OPEN						
		OL	OVERLOAD						
		OR	OVERRIDE						
		P	PRESSURE						
		SS	START / STOP						
		ST	STATUS						
		T	TEMPERATURE						
		V	VELOCITY / SPEED						
		WT	WINDING TEMPERATURE						
		X	POSITION						
		Y	SERIAL COMM'S						

BMS POINT  
NOTE: IF AN INSTRUMENT IS NOT DESIGNATED AS A TRANSMITTER "X" OR AN INDICATING TRANSMITTER "Z", IT IS A SENSOR OR SWITCH, DEPENDING ON POINT TYPE.

XX - YYYY

POINT FUNCTION ABBREVIATION  
POINT TYPE

AI: ANALOG INPUT  
AO: ANALOG OUTPUT  
DI: DIGITAL INPUT  
DO: DIGITAL OUTPUT  
HW: HARDWIRED  
SC: SERIAL COMMUNICATION

e.g. DO - ESS

START / STOP  
EQUIPMENT  
DIGITAL OUTPUT

GENERAL NOTES									
1.  FOR ROOF OPENING AND ROOF CURB DETAILS SEE ARCHITECTURAL DRAWINGS.  2.  ALL FRESH AIR OR EXHAUST AIR LOUVRES IN BUILDING WALLS BY GENERAL TRADES UNLESS OTHERWISE NOTED. FOR DETAILS SEE ARCHITECTURAL DRAWINGS.  3.  ALL STORM COLLAR FLASHINGS BY MECHANICAL FOR DETAILS OF FLASHINGS SEE ARCHITECTURAL DRAWINGS.  4.  THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND REPORT TO THE OWNER'S REPRESENTATIVE ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE WORK.  5.  DIMENSIONS SHOWN ARE FOR PREFERRED LOCATION AND GENERAL ARRANGEMENT OF MECHANICAL SYSTEMS. IT SHALL REMAIN THE CONTRACTORS RESPONSIBILITY TO ENSURE OVERALL COORDINATION OF HIS WORK WITH OTHER TRADES. SHOULD DEVIATION FROM LOCATIONS SHOWN ON DRAWINGS BECOME NECESSARY DUE TO CONFLICTS WITH OTHER TRADES OR LOCAL PROBLEMS THEY MUST BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PROCEEDING WITH WORK.  6.  THIS IS THE STANDARD SHEET FORM NOT ALL ITEMS ARE ASSOCIATED WITH THIS PROJECT.  7.  ALL EXISTING SERVICES TO REMAIN UNLESS NOTED OTHERWISE.  8.  ALL SYSTEMS TO REMAIN FUNCTIONAL UNLESS PERMISSION FOR SHUTDOWN IS GRANTED BY THE OWNER.									
GENERAL NOTES: PLUMBING & DRAINAGE									
1.  ALL SANITARY DRAINS NPS 4 SIZE & LARGER SHALL SLOPE AT 1.0%. ALL SANITARY DRAINS NPS 3 & SMALLER SHALL SLOPE AT 2%.  2.  ALL PLUMBING, DRAINAGE & VENTING SHALL BE IN CONFORMANCE WITH PART 7 OF THE O.B.C. AND IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.  3.  ALL VENTING AND TRAP SEAL PRIMER NOT SHOWN BUT REQUIRED, SHALL BE BY PLUMBING CONTRACTOR.  4.  ALL DOMESTIC COLD AND HOT WATER PIPING SHALL BE THERMALLY INSULATED.  5.  ALL ABOVE GROUND HORIZONTAL RAIN WATER LEADER AND STORM DRAIN SHALL BE THERMALLY INSULATED.									
GENERAL NOTES: FIRE PROTECTION									
1.  ALL MATERIAL SHALL BE UNDERWRITER'S LABORATORIES OF CANADA (ULC) LISTED AND SHALL COMPLY WITH THE OWNER'S INSURER'S STANDARDS AND REQUIREMENTS AND LOCAL AUTHORITIES HAVING JURISDICTION.  2.  FIRE PROTECTION CONTRACTOR TO COORDINATE ON SITE WITH OTHER TRADES BEFORE ANY WORK IS DONE. ANY SERVICE RELOCATION DUE TO INSUFFICIENT COORDINATION TO BE DONE AT NO EXTRA COST TO THE OWNER. BEFORE PROCEEDING WITH WORK, DUCTWORK, PIPING AND ELECTRICAL DRAWINGS TO BE STUDIED BY FIRE PROTECTION CONTRACTOR. SHOP DRAWINGS TO REFLECT COORDINATED ELEVATIONS.  3.  REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF DUCTWORK, PIPING, AND LIGHTING FIXTURES, ETC.  4.  DETAILED FIRE PROTECTION DESIGN SHOP DRAWINGS TO BE STAMPED BY PROFESSIONAL ENGINEER LICENSED IN ONTARIO AND TO BE SUBMITTED TO CONSULTANT AND AUTHORITY HAVING JURISDICTION FOR REVIEW.  5.  PROVIDE TYPE ABC FIRE EXTINGUISHERS AS PER ONTARIO FIRE CODE. FINAL LOCATION TO BE COORDINATED ON FIELD.  6.  FIRE PROTECTION CONTRACTOR TO PROVIDE PIPE HANGERS AS PER NFPA 13.  7.  FIRE PROTECTION SYSTEM SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13.  8.  CONTRACTOR TO CONDUCT FLOW TEST AND USE THE RESULTS FOR HYDRAULIC CALCULATIONS.  9.  HYDRAULIC CALCULATION SHALL START AT FIRE MAIN BUILDING CONNECTION. MAXIMUM SYSTEM PRESSURE TO BE 35KPA (5 PSI) LESS THAN THE PRESSURE TEST RESULT AT REQUIRED FLOW RATE, TO ACCOUNT FOR FUTURE FLUCTUATION IN WATER SUPPLY PRESSURE.  10.  PIPE DIMENSIONS TO BE DETERMINED BY THE RESULTS OF HYDRAULIC CALCULATION.  11.  SPRINKLER SYSTEMS TO BE HYDRAULICALLY DESIGNED TO DELIVER THE DENSITIES OVER THE MOST REMOTE AREA AS LISTED IN THE SCHEDULE  12.  SPRINKLER COVERAGES INDICATED ARE TO BE CONFIRMED BY FIRE PROTECTION CONTRACTOR.  13.  PROVIDE SPRINKLER PROTECTION UNDER ALL PLATFORMS INCLUDING BUT NOT LIMITED TO CONVEYORS, STAIRS, CATWALKS, SHELVING PLATFORMS, OVERHEAD DOORS, MEZZANINES, DUCTS OR ANY OBSTRUCTIONS WIDER THAN 1200MM.  14.  SPRINKLER SHOWN ARE FOR COORDINATION PURPOSE ONLY. FINAL LOCATION OF THE SPRINKLERS TO BE DETERMINED BY FIRE PROTECTION CONTRACTOR BASED ON HYDRAULIC CALCULATIONS.  15.  USE UPRIGHT SPRINKLER IN SPACE WITHOUT CEILING.  16.  LOCATE SPRINKLER HEADS IN THE CENTRE OF CEILING TILES.  17.  SPRINKLER HEAD LOCATION TO BE COORDINATED WITH ARCHITECT PRIOR TO SHOP DRAWING PRODUCTION.  18.  PIPING AND SPRINKLER HEADS MARKED FOR DEMOLITION TO BE REMOVED AND DISPOSED OF FROM SITE UNLESS OTHERWISE NOTED.  19.  REFER TO EXISTING SHOP DRAWINGS.  20.  ALL EXISTING SPRINKLERS TO BE ADJUSTED TO SUIT NEW BUILDING LAYOUT IN ACCORDANCE WITH NFPA 13.  21.  PROVIDE FIRE WATCH DURING SHUT DOWN.									
GENERAL NOTES: HVAC									
1.  ALL DUCTWORK TO BE INSTALLED TO LOW-PRESSURE DUCTWORK TO S.M.A.C.N.A. STANDARDS.  2.  DUCTWORK: FABRICATED OF PRIME QUALITY GALVANIZED STEEL SHEETS WITH Z275 (G90) DESIGNATION ZINC COATING TO ASTM A653/A653M  3.  ALL DUCTWORK C/W SEAL CLASS 'A' AS PER S.M.A.C.N.A. STANDARDS.  4.  ALL EXHAUST DUCTWORK SHALL BE THERMALLY INSULATED FOR 1500mm BEFORE EXITING THE BUILDING ENVELOPE.  5.  ALL FLEXIBLE DUCT TO BE MAXIMUM 3000MM LONG AND INSULATED.  6.  ALL SUPPLY AIR DUCTWORK INSIDE CEILING SPACE SHALL BE THERMALLY INSULATED.  7.  ALL REFRIGERANT LINES SHALL BE THERMALLY INSULATED.  8.  ALL CONDENSATE DRAIN SHALL BE THERMALLY INSULATED.  9.  ALL CONTROL WIRING SHALL BE FT-6 RATED.									

CLIENT

CITY OF TORONTO



Corporate Real Estate Management  
Project Management Office  
Metro Hall Toronto, ON  
M5V 3C6

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Arcadis Professional Services (Canada) Inc.

ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	ISSUED FOR REVISED PERMIT	2024-06-14
C	ISSUED FOR TENDER	2025-09-08

CONSULTANTS

SEAL

PRIME CONSULTANT



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Toronto, ON M9W 0C9, Canada  
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www.arcadis.com

PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO: 9119- 19- 0162 / IBI 122260	
DRAWN BY: N. KHOURY	CHECKED BY: G. VERNESCU
PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. LIU

SHEET TITLE  
MECHANICAL LEGEND  
SHEET 2 OF 2

SHEET NUMBER G21-GAL-G3002	ISSUE C
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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
GENERAL									
	NORTH ARROW ARROW INDICATES PROJECT NORTH		COMBINATION MAGNETIC STARTER		HEAT TRACING DIRECT CONNECTION TO HEAT TRACING: I - HEAT TERACING II - PIPE SYSTEM ID STORM		CCTV  INDOOR PTZ CAMERA  INDOOR FIXED CAMERA  OUTDOOR/WALL/ROOF MOUNTED PTZ CAMERA  OUTDOOR/WALL/ROOF MOUNTED FIXED CAMERA  OUTDOOR FIXED CAMERA POLE MOUNTED  OUTDOOR PTZ CAMERA POLE MOUNTED		PUBLIC ADDRESS & INTERCOM  INTERCOM  C - AUDIO E - EMERGENCY CALL H - HANDSET P - PANEL S - SERVER V - VIDEO  A - AUDIO SIREN & STROBE D - WITH IMAGE DISPLAY E - ELEVATOR F - FURNITURE MTD M - MAINTENANCE S - COMMUNICATION STATUS INDICATOR  PA SPEAKER  HORN/CONE SPEAKER ZA - DENOTES ZONE A AMPLIFIER  END OF LINE DEVICE
	NOTE REFERENCE TAG N# - DENOTES NOTE NUMBER E-### - DENOTES DRAWING NUMBER		HORSEPOWER RATED MOTOR TOGGLE SWITCH		HEAT TRACING THERMOSTAT		STEEL POLE BASE MOUNTED 6m - DENOTES POLE HEIGHT A - DENOTES POLE BASE TYPE A - 900mm HIGH CONCRETE BASE, NOT HINGED B - 300mm HIGH CONCRETE BASE, HINGED		FIRE ALARM  FIRE ALARM CONTROL PANEL  REMOTE ANNUNCIATOR PANEL  FIRE ALARM ZONE NUMBER  CO2 ABORT STATION  ACTIVE FIELD DEVICE - COMBINATION CONTROL AND MONITOR MODULE  COMBINATION HEAT AND SMOKE DETECTOR  CO2 DUMP STATION  MAGNETIC DOOR HOLDER DEVICE  EMERGENCY POWER OFF STATION  SPRINKLER SYSTEM FLOW ALARM SWITCH  COMBINATION RATE OF RISE AND FIXED TEMPERATURE HEAT DETECTOR  DUCT SMOKE DETECTOR  ISOLATOR MODULE  INFRA RED DETECTOR  ALARM MONITOR CONTACT  POST INDICATOR VALVE  PRESSURE SWITCH  FIRE ALARM RELAY  AREA SMOKE DETECTOR A - DENOTES ASPIRATION TYPE U - DENOTES BELOW RAISED FLOOR  AREA SMOKE DETECTOR COMPLETE WITH REMOTE ALARM LIGHT  SPRINKLER SYSTEM SUPERVISED VALVE  AIR SAMPLING SMOKE DETECTOR  FIRE ALARM BELL  FIRE ALARM HORN  FIRE ALARM MINI HORN C/W STROBE LIGHT  STROBE LIGHT  WARNING LIGHT  FIRE ALARM MANUAL PULL STATION (RED) MANUAL RELEASE PULL STATION (BLUE)  ABORT PUSH BUTTON  END OF LINE DEVICE  FIREMAN'S TELEPHONE HANDSET
	BURIED GROUNDING CONDUCTOR		FUSED DISCONNECT SWITCH		LIGHTING TYPICAL LUMINAIRE NOMENCLATURE: L01 - DENOTES LUMINAIRE TYPE L2B1-28.1 - DENOTES CIRCUIT NUMBER L2B1 - DENOTES PANELBOARD (REFER TO POWER AND CONTROL) 28 - DENOTES CIRCUIT NUMBER .1 - DENOTES CONTROL NUMBER		SECURITY  SECURITY CONTROL PANEL  GLASS BREAK DETECTOR  KEY PAD  CARD READER  DOOR MONITOR SWITCH  DATA IN  DATA OUT  DOOR BY-PASS KEYED SWITCH  ELECTRIC DOOR STRIKE  MAGNETIC DOOR LOCK  ELEVATOR HALL CALL BUTTON  ELEVATOR CARD CALL BUTTON  MAGNETIC LOCK RELEASE/RESET KEY  PUSH TO EXIT  TRANSOM REQUEST TO EXIT  AUDIBLE ANNUNCIATOR  POWER ASSIST  POWER ASSIST CONNECTION  DOOR RELEASE  PUSH BUTTON REMOTE RELEASE  PUSH BUTTON DURESS  PUSH BAR BOLT RETRACT  PUSH BAR ELECTRIC BOLT RETRACT  PASSIVE INFRARED MOTION DETECTOR		POWER AND CONTROL  POWER AND/OR DISTRIBUTION PANELBOARD - SURFACE MOUNTED  PAD MOUNT TRANSFORMER  SUSPENDED TRANSFORMER  DENOTES PANEL DENOTES SEQUENTIAL IDENTIFIER (1,2,3,...)  DENOTES REDUNDANCY IDENTIFIER (A,B)  DENOTES FLOOR (B,1,2,3) *UPS PANELS DENOTE PDU SOURCE  DENOTES NON-LIFE SAFETY DENOTES LIFE SAFETY DENOTES LIGHTING DENOTES UNINTERRUPTIBLE POWER SUPPLY *U2A1 DENOTES FROM PDU-U2A  DISTRIBUTION PANEL POWER PANEL RECEPTACLE PANEL LIGHTING PANEL SWITCHBOARD TRANSFORMER POWER DISTRIBUTION UNIT
	LIGHTNING GROUND CONDUCTOR		MOTORIZED DAMPER		CEILING OR PENDANT MOUNTED LUMINAIRE		GLASS BREAK DETECTOR		FIRE ALARM CONTROL PANEL
	GROUND ROD C/W INSPECTION CAN		CONTROL PANEL		WALL MOUNTED LUMINAIRE		KEY PAD		FIRE ALARM ZONE NUMBER
	GROUNDING CONDUCTOR CONNECTION		JUNCTION BOX		CEILING OR PENDANT MOUNTED LUMINAIRE		CARD READER		CO2 ABORT STATION
	AIR TERMINAL (LIGHTNING ROD)		MOTOR		LIGHT SWITCH		DOOR MONITOR SWITCH		ACTIVE FIELD DEVICE - COMBINATION CONTROL AND MONITOR MODULE
	CONDUCTOR DOWN TO BUILDING GROUND LOOP		BLANK JUNCTION BOX		DESIGNATIONS FOR LIGHT SWITCHES 3 - 3-WAY 4 - 4-WAY D - DIMMER MC - MOMENTARY CONTACT P - PILOT LIGHT K - KEY OPERATED LV - LOW VOLTAGE		ELECTRIC DOOR STRIKE		CO2 DUMP STATION
	DIRECT BURIED CONDUIT(S) OR CABLE(S)		TERMINAL BOX WITH TERMINAL STRIPS		OCCUPANCY SENSOR		MAGNETIC DOOR LOCK		MAGNETIC DOOR HOLDER DEVICE
	CONCRETE ENCASED CONDUIT(S)		BASEBOARD HEATING UNIT		PHOTO-ELECTRIC CONTROL		ELEVATOR HALL CALL BUTTON		EMERGENCY POWER OFF STATION
	EXPOSED CONDUIT OR CABLE		ELECTRIC CONVECTION HEATER		EXIT SIGN - CEILING MOUNTED ARROW DENOTES DIRECTION CHEVRON		ELEVATOR CARD CALL BUTTON		SPRINKLER SYSTEM FLOW ALARM SWITCH
	CONDUIT OR CABLE TURNING UP		ELECTRIC FORCE-FLOW HEATER		EXIT SIGN - WALL MOUNTED		MAGNETIC LOCK RELEASE/RESET KEY		COMBINATION RATE OF RISE AND FIXED TEMPERATURE HEAT DETECTOR
	CONDUIT OR CABLE TURNING DOWN		DOOR CONTROL PANEL		EMERGENCY LIGHTING BATTERY WITH 2 HEADS AND SINGLE RECEPTACLE		PUSH TO EXIT		DUCT SMOKE DETECTOR
	SLOPE - ARROW INDICATES DOWNWARD SLOPE		DOCK LEVELER		EMERGENCY LIGHTING BATTERY FOR REMOTE HEADS AND SINGLE RECEPTACLE		TRANSOM REQUEST TO EXIT		ISOLATOR MODULE
	MANHOLE		SINGLE RECEPTACLE		DOUBLE REMOTE EMERGENCY LIGHTING HEADS		AUDIBLE ANNUNCIATOR		INFRA RED DETECTOR
	HAND HOLE		DUPLEX RECEPTACLE		SPACE TYPE FOR LIGHTING CONTROL. REFER TO SCHEDULE IN SPECIFICATION SECTION 16590		POWER ASSIST		ALARM MONITOR CONTACT
	CONCRETE PULL BOX (MINIMUM INTERNAL DIMENSIONS: 900x610x900)		TWO DUPLEX RECEPTACLES WITH BARRIER		COMMUNICATIONS COMMUNICATION OUTLET: - SOLID DENOTES COPPER CONDUCTORS - OPEN DENOTES OPTICAL FIBRE CONDUCTORS - BOXED DENOTES INDUSTRIAL OUTLET		PRESSURE SWITCH		POST INDICATOR VALVE
	PULL BOX		GFCI DUPLEX RECEPTACLE		FLUSH WITH SURFACE COMMUNICATIONS PASS TROUGH FURNITURE FEED F - DENOTES FLOOR MOUNTED		FIRE ALARM RELAY		SPRINKLER SYSTEM SUPERVISED VALVE
	UTILITY POLE		COMBINATION DUPLEX RECEPTACLE/TELECOMMUNICATION OUTLET (DUPLICATED ON COMMS DRAWINGS)		FURNITURE FEED F - DENOTES FLOOR MOUNTED		DOOR RELEASE		AIR SAMPLING SMOKE DETECTOR
	POWER AND/OR DISTRIBUTION PANELBOARD - SURFACE MOUNTED		COMBINATION TWO DUPLEX RECEPTACLES/TELECOMMUNICATION OUTLET (DUPLICATED ON COMMS DRAWINGS AS COMBINATION DUPLEX RCT) WITH BARRIER BETWEEN RECEPTACLES		COMBINATION DUPLEX RECEPTACLE(S)/TELECOMMUNICATION OUTLET/FLOOR BOX (DUPLICATED ON POWER DRAWINGS)		PUSH BUTTON REMOTE RELEASE		FIRE ALARM BELL
	PAD MOUNT TRANSFORMER		COMBINATION MULTI-RECEPTACLE/TELECOMMUNICATION FLOOR BOX (DUPLICATED ON COMMS DRAWINGS)		WEATHERPROOF PUSHBUTTON FOR POWER OPERATED DOOR		PUSH BUTTON DURESS		FIRE ALARM HORN
	SUSPENDED TRANSFORMER		LINE DENOTES ABOVE COUNTER HEIGHT OUTLET 1200 AFF OR 300 ABOVE COUNTER, UNLESS OTHERWISE NOTED		FURNITURE FEED - POWER		PUSH BAR BOLT RETRACT		FIRE ALARM MINI HORN C/W STROBE LIGHT
	DENOTES PANEL		DESIGNATIONS FOR RECEPTACLE TYPES A RACK RECEPTACLE L-20R B L21-20R C CEILING D DEPRESSED WITH FLOOR SLAB/ACCESS FLOOR E ENCLOSURE F FURNITURE MTD GFCI GROUND FAULT CIRCUIT INTERRUPTER H 5-30R S MTD ON SURFACE OF FLOOR U UNDERFLOOR		COMMUNICATIONS COMMUNICATION OUTLET: - SOLID DENOTES COPPER CONDUCTORS - OPEN DENOTES OPTICAL FIBRE CONDUCTORS - BOXED DENOTES INDUSTRIAL OUTLET		POWER ASSIST CONNECTION		STROBE LIGHT
	DENOTES REDUNDANCY IDENTIFIER (A,B)		THERMOSTAT		FLUSH WITH SURFACE COMMUNICATIONS PASS TROUGH FURNITURE FEED F - DENOTES FLOOR MOUNTED		DOOR RELEASE		WARNING LIGHT
	DENOTES FLOOR (B,1,2,3) *UPS PANELS DENOTE PDU SOURCE		SWITCH HEATER/BLOWER		COMBINATION DUPLEX RECEPTACLE(S)/TELECOMMUNICATION OUTLET/FLOOR BOX (DUPLICATED ON POWER DRAWINGS)		PUSH BAR ELECTRIC BOLT RETRACT		FIRE ALARM MANUAL PULL STATION (RED)
	DENOTES NON-LIFE SAFETY		HIGH/LOW TEMPERATURE THERMOSTAT		TELECOMMUNICATIONS ENCLOSURE		PUSH BUTTON DURESS		MANUAL RELEASE PULL STATION (BLUE)
	DENOTES LIFE SAFETY		WEATHERPROOF PUSHBUTTON FOR POWER OPERATED DOOR		DESIGNATIONS FOR COMMUNICATION OUTLETS XXX CABLE TERMINATION QUANTITY # MOUNTING STYLE S - SURFACE MTD P - PENDANT F - FURNITURE R - RACK MOUNT PATCH PANEL W - FLUSH WITH SURFACE WALL MOUNTED D - DEPRESSED WITH FLOOR SLAB/ACCESS FLOOR C - CEILING O - OVERHEAD		FIRE ALARM RELAY		ABORT PUSH BUTTON
	DENOTES LIGHTING		FURNITURE FEED - POWER		FLUSH WITH SURFACE COMMUNICATIONS PASS TROUGH FURNITURE FEED F - DENOTES FLOOR MOUNTED		END OF LINE DEVICE		FIREMAN'S TELEPHONE HANDSET
	DENOTES UNINTERRUPTIBLE POWER SUPPLY *U2A1 DENOTES FROM PDU-U2A		DYNAMIC GLASS WINDOW CONTROLLER		COMBINATION DUPLEX RECEPTACLE(S)/TELECOMMUNICATION OUTLET/FLOOR BOX (DUPLICATED ON POWER DRAWINGS)		PASSIVE INFRARED MOTION DETECTOR		
	DISTRIBUTION PANEL		DYNAMIC GLASS ZONE CONTROLLER						
	POWER PANEL		CLOCK NETWORK ATTACHED POE CLOCK WITH NETWORK CONNECTION 'C' - CEILING/PENDANT 'W' - WALL/SURFACE MOUNT 'S' - SINGLE SIDE 'D' - DOUBLE SIDE 2,5" 2,5"(64MM) DIGIT DISPLAY 4" 4" (100MM) DIGIT DISPLAY						
	RECEPTACLE PANEL								
	LIGHTING PANEL								
	SWITCHBOARD								
	TRANSFORMER								
	POWER DISTRIBUTION UNIT								
	TAG NUMBER								
	AC - AIR CONDITIONING UNIT								
	ACC - AIR COOLED CONDENSER UNIT								
	C - COMPRESSOR								
	CH - CABINET UNIT HEATER								
	CU - CONDENSER UNIT								
	DH - DOOR HEATER								
	EF - EXHAUST FAN								
	ETU - EXHAUST TERMINAL UNIT								
	EW - EYE WASH								
	H - HUMIDIFIER								
	HV - HEATING AND VENTILATING UNIT								
	HW - HOT WATER HEATER								
	MD - MOTORIZED DAMPER								
	P - PUMP								
	RAF - RETURN AIR FAN								
	SF - SUPPLY FAN								
	UH - UNIT HEATER								
	V - VENTILATING UNIT								
SYMBOLS AND LEGEND AS APPLICABLE		SYMBOLS AND LEGEND AS APPLICABLE		SYMBOLS AND LEGEND AS APPLICABLE		SYMBOLS AND LEGEND AS APPLICABLE		SYMBOLS AND LEGEND AS APPLICABLE	

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CITY OF TORONTO

Corporate Real Estate Management  
Project Management Office  
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No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
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C	ISSUED FOR PERMIT	2022-03-18
D	ISSUED FOR TENDER	2022-12-07
E	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
V. MAC

CHECKED BY:  
M. BOJIC

PROJECT MGR:  
F. BOLOURIAN

APPROVED BY:  
P. WILLIAMS

SHEET TITLE

ELECTRICAL LEGEND 1

SHEET NUMBER

G05-G4001

ISSUE

E

Autodesk Docs/122260 - Cot TAU Upgrades R202412260-TAU-G05-General-R20.rvt | 10mm | 1 in



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CITY OF TORONTO ACCESSIBILITY UPGRADES					
PROJECT ADDRESS					
PROJECT NO: 9119- 19- 0162 / IBI 122260					
DRAWN BY: V. MAC			CHECKED BY: M. BOJIC		
PROJECT MGR: F.BOLOURIAN			APPROVED BY: P. WILLIAMS		
SHEET TITLE					
ELECTRICAL LEGEND 2					
SHEET NUMBER			ISSUE		
G05-G4002			E		



MOUNTING HEIGHTS SCHEDULE			
MOUNTING HEIGHTS TO TOP OF DEVICE.			
ALL DIMENSIONS ARE ABOVE FINISHED FLOOR (AFF) UNLESS NOTED OTHERWISE.			
LIGHT SWITCH	— — — — —		1050mm
RECEPTACLE - FINISHED AREAS	— — — — —		460mm
RECEPTACLE - UNFINISHED AREAS	— — — — —		1050mm
RECEPTACLE - ABOVE COUNTER	— — — — —		300mm
DATA OUTLET - FINISHED AREA	— — — — —		460mm
DATA OUTLET - UNFINISHED AREA	— — — — —		1050mm
FIRE ALARM MANUAL PULL STATION	— — — — —		1200mm
FIRE ALARM HORN/STROBE	— — — — —		2460mm
FIRE ALARM STROBE	— — — — —		2460mm
FIRE ALARM END OF LINE DEVICE	— — — — —		1500mm
FIRE ALARM HEAT DETECTOR	— — — — —		CEILING
FIRE ALARM SMOKE DETECTOR	— — — — —		CEILING
FIRE ALARM REMOTE ANNUNCIATOR	— — — — —		2000mm
PANEL	— — — — —		2000mm
CONTROL PANEL	— — — — —		2000mm
MOTOR STARTER	— — — — —		1800mm
DISCONNECT SWITCH	— — — — —		1800mm
PUSH BUTTON STATION	— — — — —		1050mm
DOOR ACCESS CONTROL CARD READER	— — — — —		1050mm
VIDEO INTERCOM	— — — — —		AS PER MANUF. INSTRUCTION
DOOR BY-PASS KEYED SWITCH	— — — — —		1050mm
BATTERY OPERATED EMERGENCY LIGHT	— — — — —		2700mm
EMERGENCY LIGHT BATTERY UNIT	— — — — —		2700mm
THERMOSTAT	— — — — —		1200mm

1. PROVIDE 1-#6 GND WIRE FOR ALL UNDERGROUND EMPT CONDUITS AND COMMUNICATIONS CONDUITS WITHOUT METAL WIRING/CABLES TO FACILITATE FUTURE DETECTION.
2. NO SPLICES ARE ALLOWED FOR COMMUNICATION CABLES.
3. NO SPLICES ARE ALLOWED BELOW GRADE FOR POWER WIRE AND CABLE.
4. THERE MUST BE A BREAK IN ALL UNDERGROUND CONDUITS OUTSIDE THE BUILDING/TOWERS/ELECTRICAL/COMMUNICATIONS/BOILER ROOM TO ALLOW DRAINAGE OF RACEWAY BEFORE ENTERING THE ROOMS.
5. PROVIDE LAYOUT (WITH DIMENSIONS) OF ALL UNDERGROUND PULL POINTS INCLUDING HAND HOLES, MAN HOLES AND CONCRETE PULL BOXES TO THE CONSULTANT FOR APPROVAL PRIOR TO INSTALLATION.
6. INSTALL HAND HOLES AWAY FROM MAJOR TRAFFIC AREAS (TYPICAL).
7. PROVIDE HEAT TRACING PROTECTION FOR WATER PIPES, STORM PIPES AND SANITARY PIPES AS SHOWN ON ELECTRICAL DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR PIPING LAYOUT. HEAT TRACING SHALL BE RAYCHEM MODEL 48XL-TRACE, 208V, 1PH, SELF REGULATING TRACING CABLE OR APPROVED EQUIVALENT, C/W POWER SUPPLY MODULE, THERMOSTAT AND ALL ACCESSORIES FOR A COMPLETE AND FUNCTIONING SYSTEM. STARTUP TEMPERATURE -29°C (-20°F).
8. WHERE CONDUITS ARE INSTALLED ACROSS EXPANSION JOINTS, PROVIDE CONDUITS WITH EXPANSION/CONTRACTION FITTINGS.
9. ELEVATOR FIRE ALARM AUTOMATIC RECALL:  
ELEVATOR LOBBY MOUNTED FIRE DETECTORS AND SECURITY PANEL TO RECALL ELEVATORS TO DESIGNATED LEVEL. PIPON FIRE ALARM. MOUNT DETECTOR AT DESIGNATED LEVEL. ELEVATOR LOBBY MOUNTED FIRE. ELEVATOR TO ALTERNATE LEVEL. REFER TO ELEVATOR AUTOMATIC FIRE REC. SCHEDULE. ELEVATOR CONTRACTOR TO COORDINATE WITH TSSA AND CONFIRM DESIGNATED/ALTERNATE LEVELS.
10. SMOKE DETECTOR AT TOP OF ELEVATOR SHAFT TO BE AIR SAMPLING SMOKE DETECTOR TYPE. INSTALL CONTROL UNIT IN A TAMPER PROOF ENCLOSURE (NEMA 4X) OUTSIDE OF ELEVATOR CLOSET. AIR SAMPLING SMOKE DETECTOR TO BE EST READY SET BY EDWARDS OR APPROVED EQUAL.
11. SITE PLAN DRAWINGS INDICATE UNDERGROUND POWER CONDUITS AND CORRESPONDING PULL POINTS (CONCRETE PULL BOXES, HAND HOLES OR MAN HOLES). WHERE OEC REQUIRES ADDITIONAL PULL POINTS FOR WIRING SEPARATION, PROVIDE ADDITIONAL CONCRETE PULL BOX (OR HAND HOLE) AS REQUIRED. IF AN ADDITIONAL MAN HOLE IS REQUIRED, IT IS PREFERRED TO PROVIDE AN ADDITIONAL HAND HOLE OR CONCRETE PULL BOX IF POSSIBLE.

ISSUE



# CITY OF TORONTO

# ACCESSIBILITY UPGRADES

9119- 19- 0162 / IBI 122260

TYPICAL DETAILS BOOKLET

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D1002	DRYWALL CUT OUT
D1201	ACCESSIBLE WASHROOM, SHOWER & ACCESSORIES DETAILS
D1202	RESERVED
D1203	RESERVED
D1204	WASHROOM VANITY SECTION DETAIL
D1205	RESERVED
D1301	KITCHEN MILLWORK PLANS & ELEVATIONS
D1302	KITCHEN MILLWORK DETAIL SECTIONS
D1303	RESERVED
D1305	RESERVED
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D1404	RAMP DETAILS
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D1601	RESERVED
D1602	ELEVATOR CONTROL & INTERIOR CABIN DETAILS
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D1702	CURB DETAILS
D1801	HOARDING DETAILS

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D3201	PLUMBING DETAILS
D3301	DRAINAGE DETAILS
D3401	FIRE PROTECTION DETAILS
D3501	HVAC DETAILS
D3601	PIPING DETAILS SHEET 1 OF 2
D3602	PIPING DETAILS SHEET 2 OF 2

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SHEET #	SHEET TITLE
D4001	ELECTRICAL DETAILS 1

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55 John ST.  
TORONTO, ON  
M5V 3C6

ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2023-02-17
E	ISSUED FOR REVISED PERMIT/100%	2023-08-31
F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT	2024-06-14
H	ISSUED FOR TENDER	2025-09-08

CITY OF TORONTO  
ACCESSIBILITY UPGRADES  
GROUP PROGRAM 21



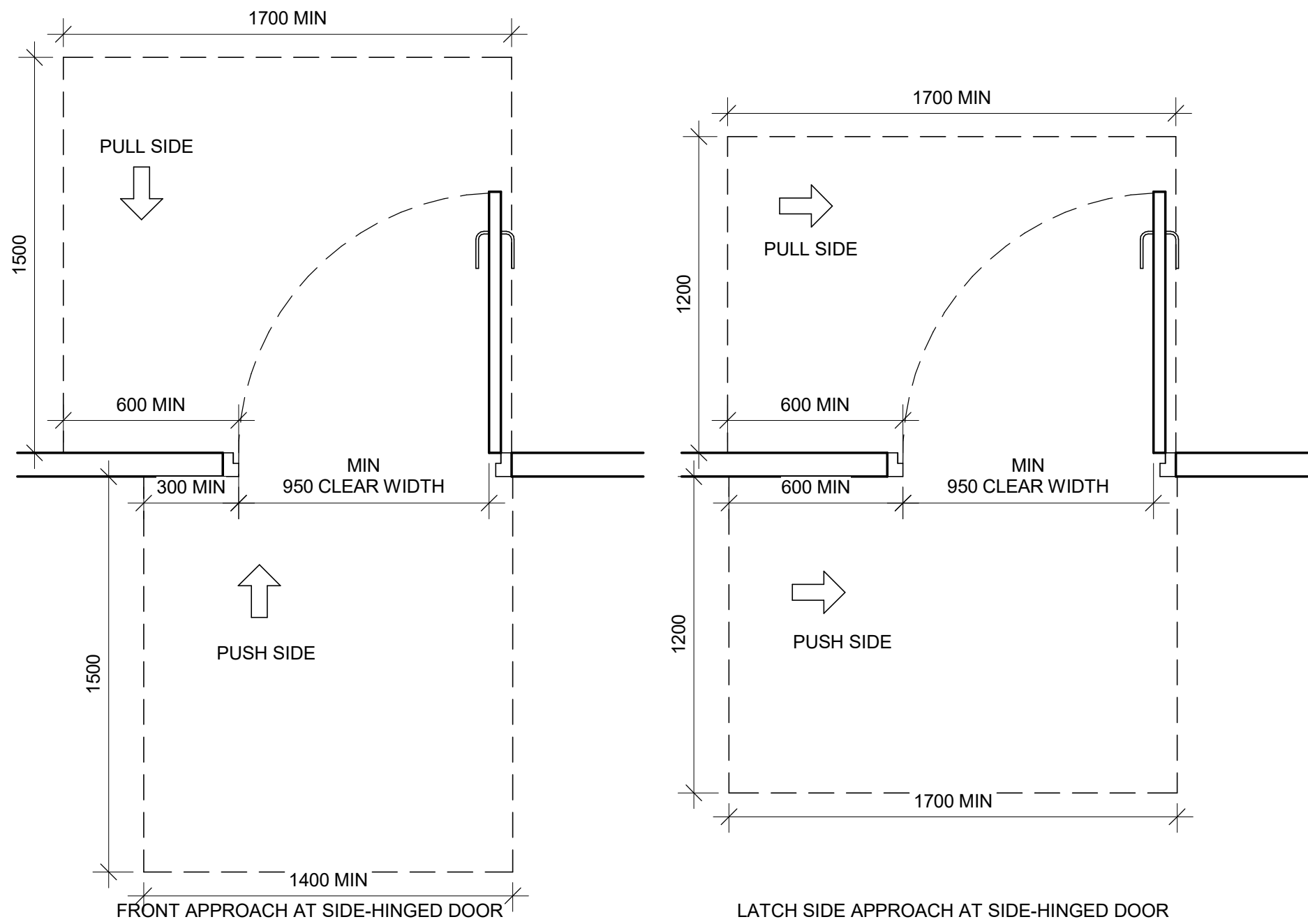
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PROJECT NO: 9119- 19- 0162 / IBI 122260	
DATE: 2025-09-08	
SHEET NUMBER GAL-D1000	ISSUE H

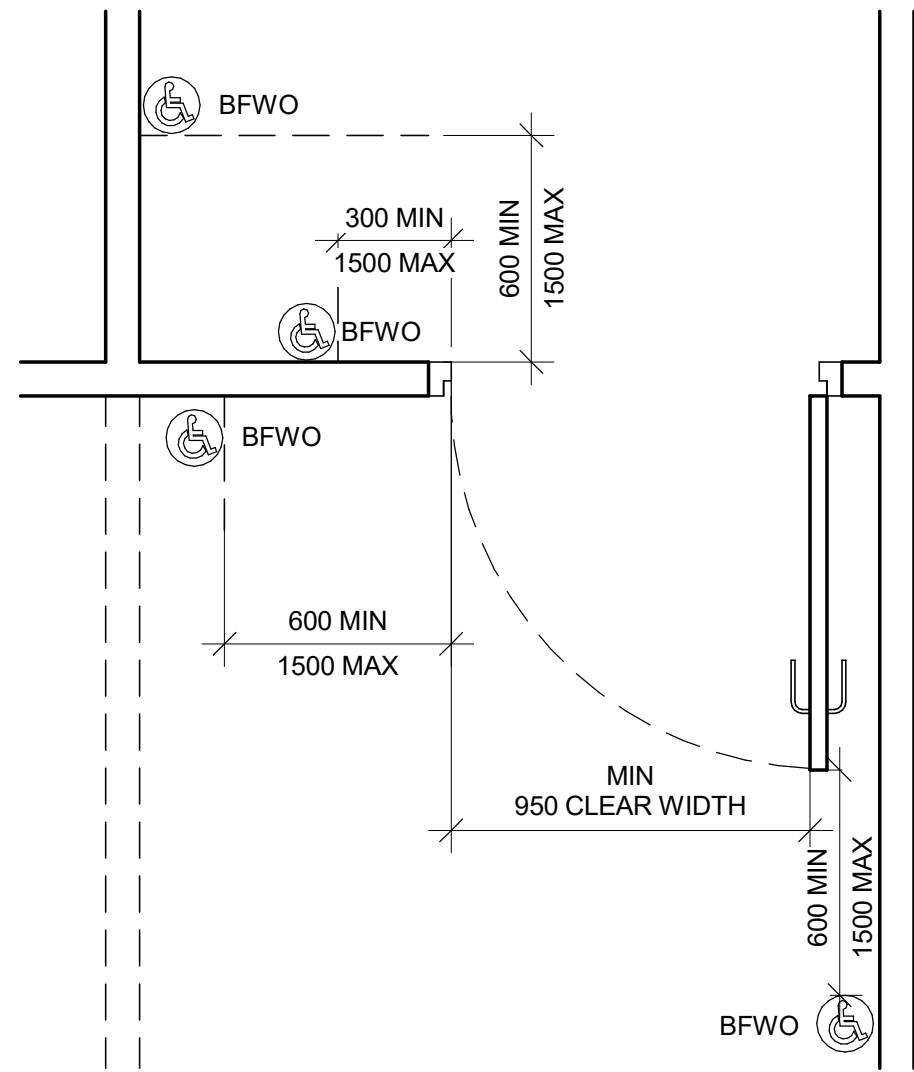
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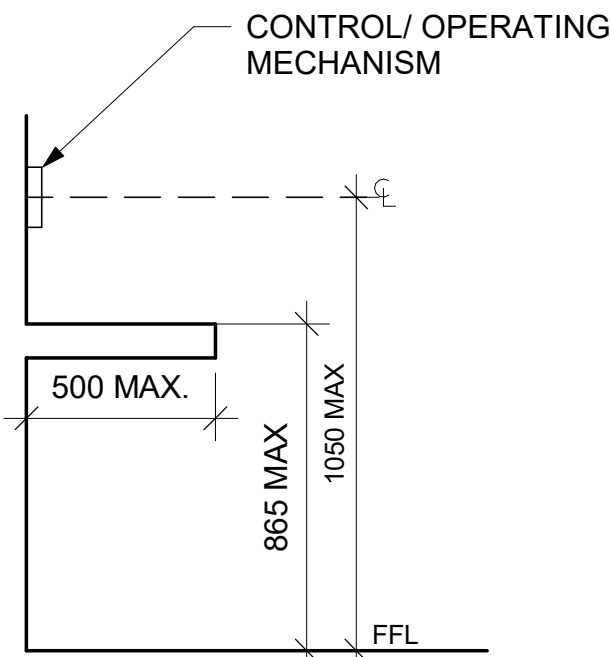
RESERVED



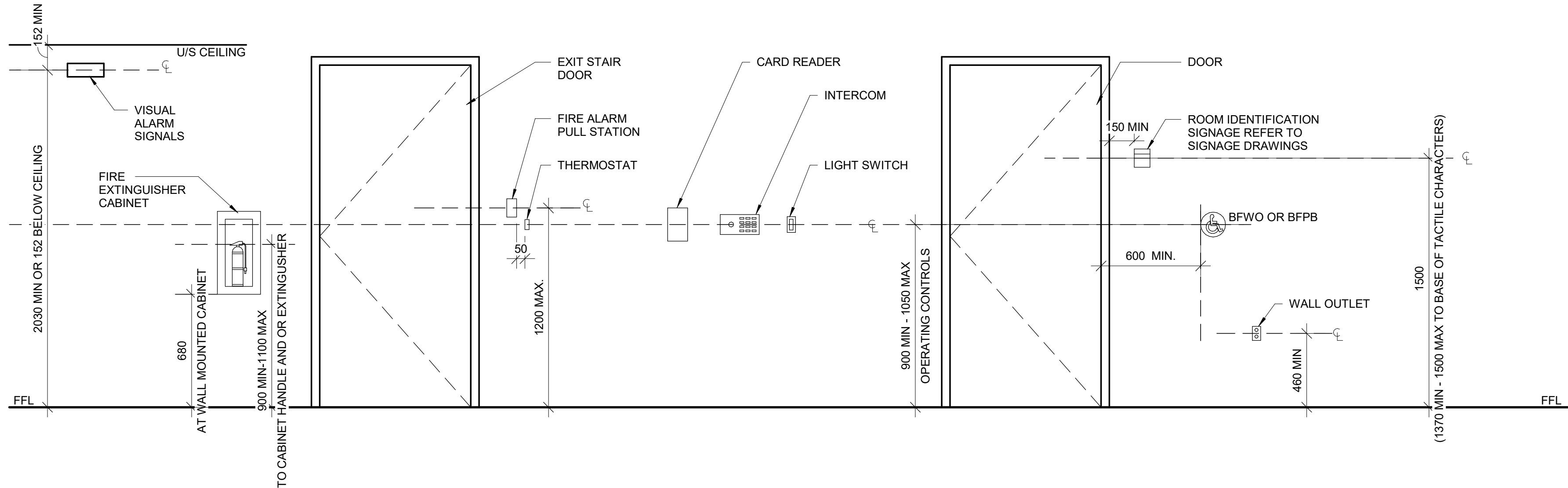
2 DOOR APPROACH CLEARANCES  
D1001 Scale: 1 : 20



3 BARRIER-FREE WAVE TO OPEN LOCATION  
D1001 Scale: 1 : 20



4 CONTROL HEIGHTS AT OBSTRUCTIONS  
D1001 Scale: 1 : 20



5 MOUNTING HEIGHTS  
D1001 Scale: 1 : 20

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E	ISSUED FOR REVISED PERMIT/100%	2023-08-31
F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT	2024-06-14
H	ISSUED FOR TENDER	2025-09-08

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ACCESSIBILITY UPGRADES**

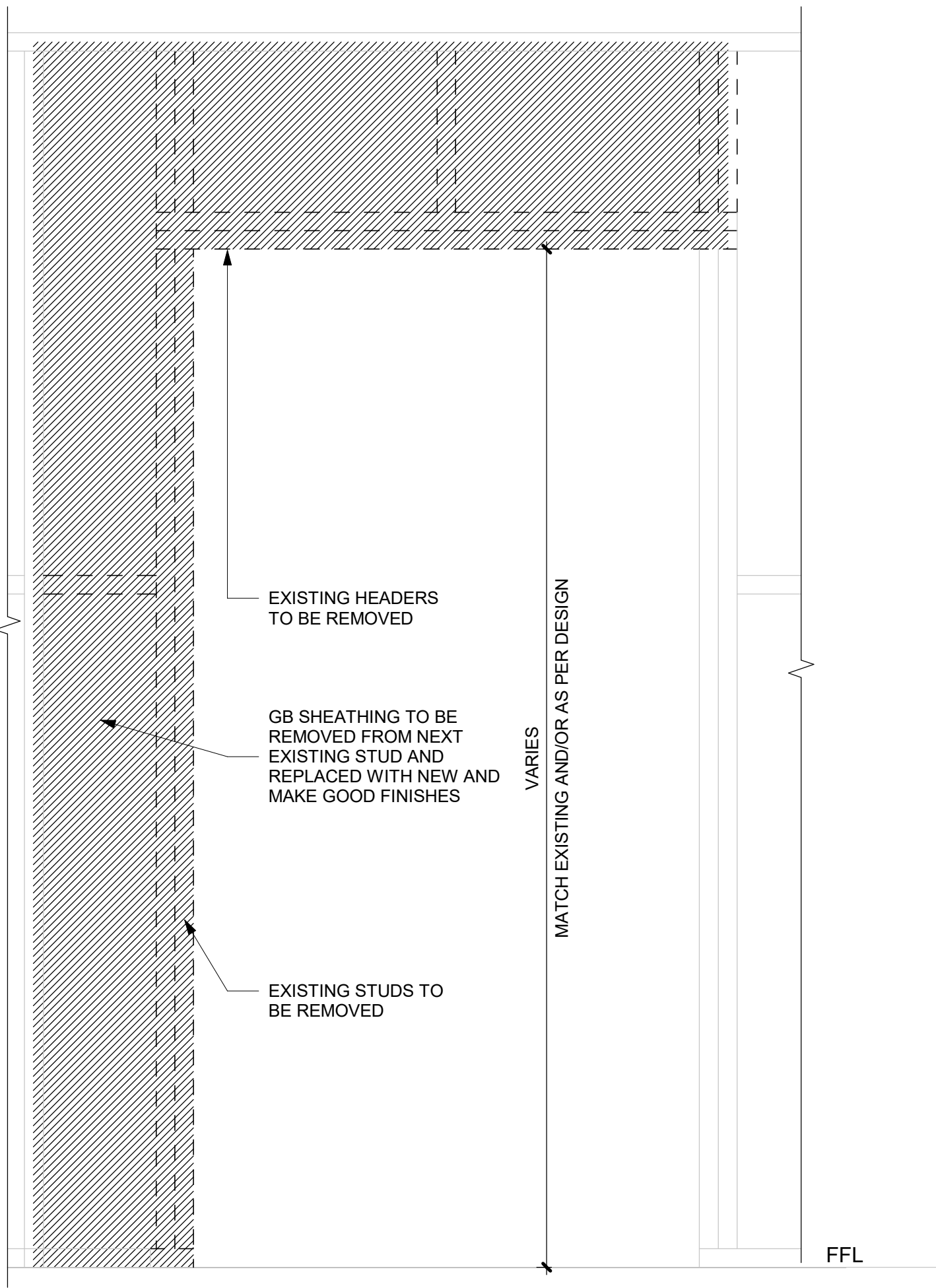
PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260  
DRAWN BY:  
**A. BOYNARIAN**  
PROJECT MGR:  
**F. BOLOURIAN**  
CHECKED BY:  
**L. BANDIERA**  
APPROVED BY:  
**E. FENUTA**

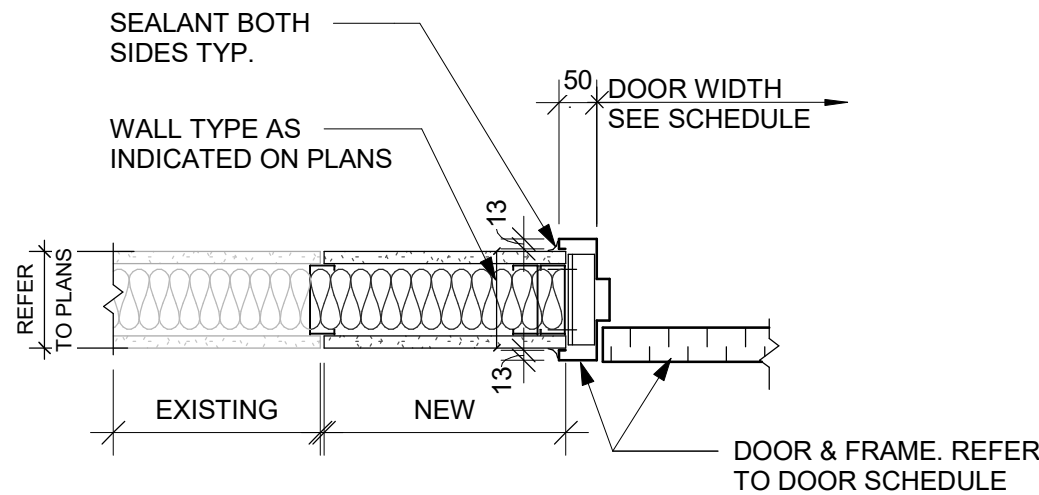
SHEET TITLE  
**ACCESSIBILITY DESIGN  
STANDARDS AND DOOR  
CLEARANCES**

SHEET NUMBER  
**GAL-D1001**  
ISSUE  
**H**





1 DRYWALL - DOOR CUTOUT DETAIL  
D1002 Scale: 1 : 10



2 DRYWALL - DOOR JAMB SECTION DETAIL  
D1002 Scale: 1 : 10

NOTE: FOR MASONRY WALL CUT OUT,  
REFER TO STRUCTURAL DETAIL

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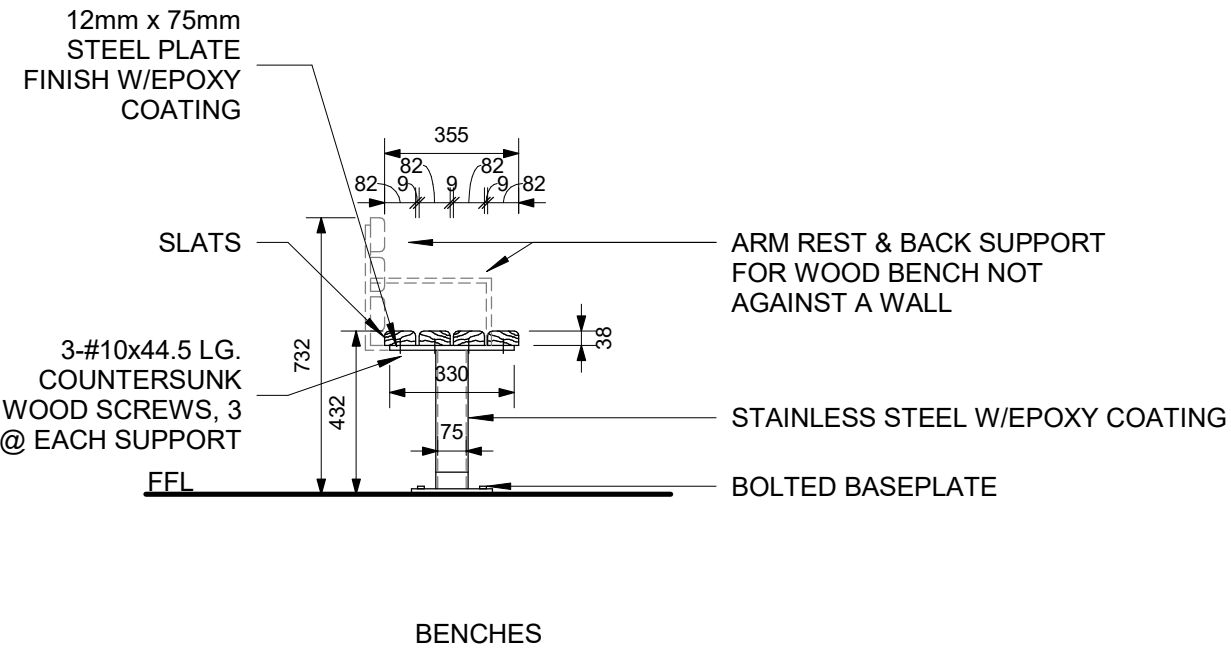
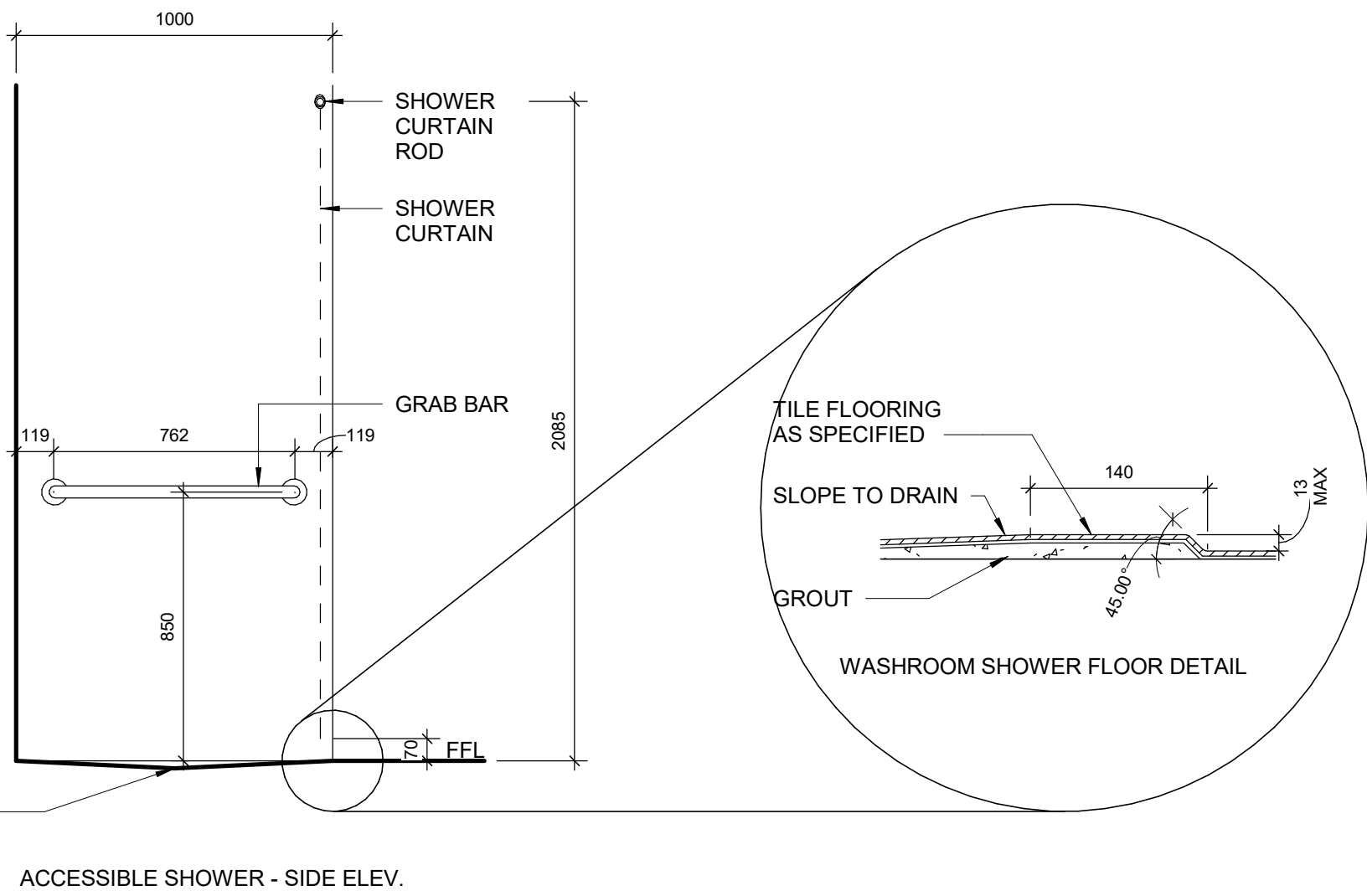
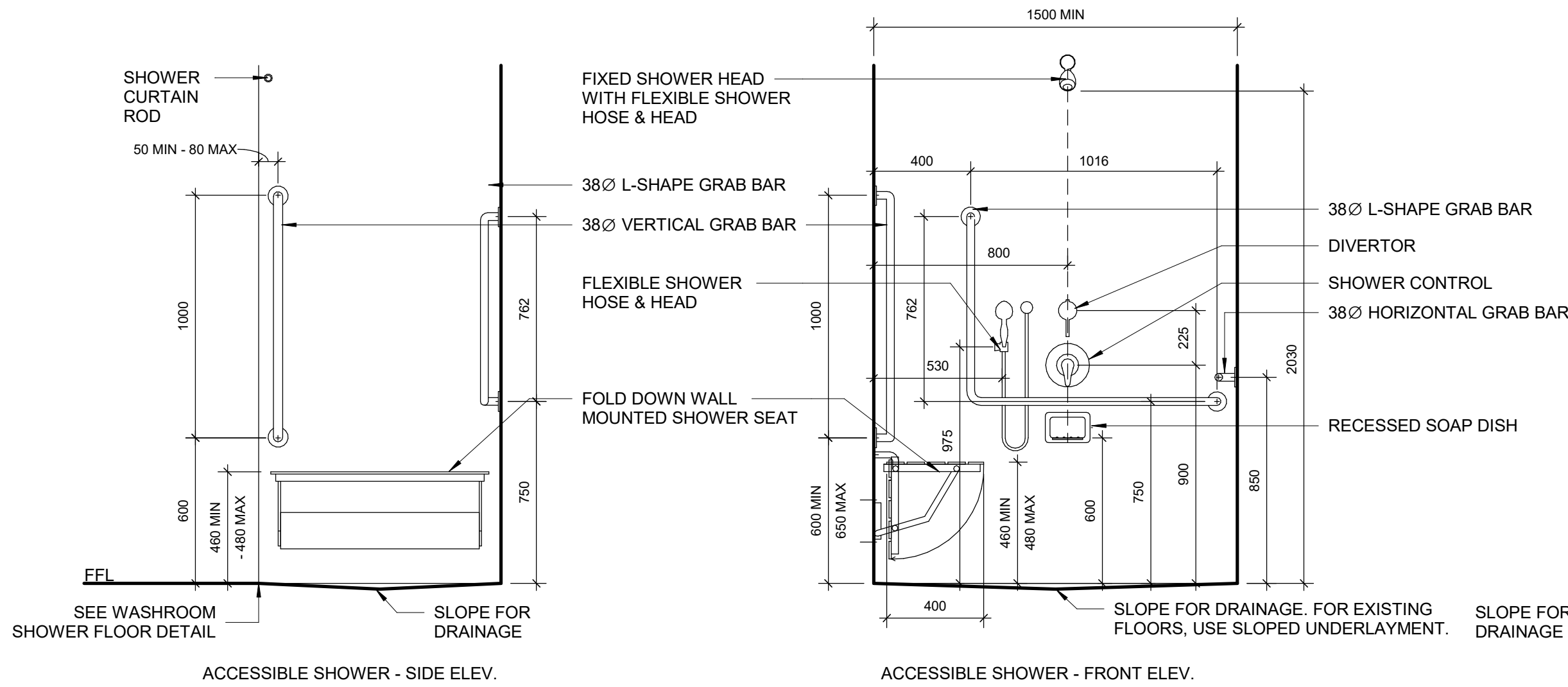
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUTA

SHEET TITLE  
DRYWALL CUT OUT

SHEET NUMBER  
GAL-D1002

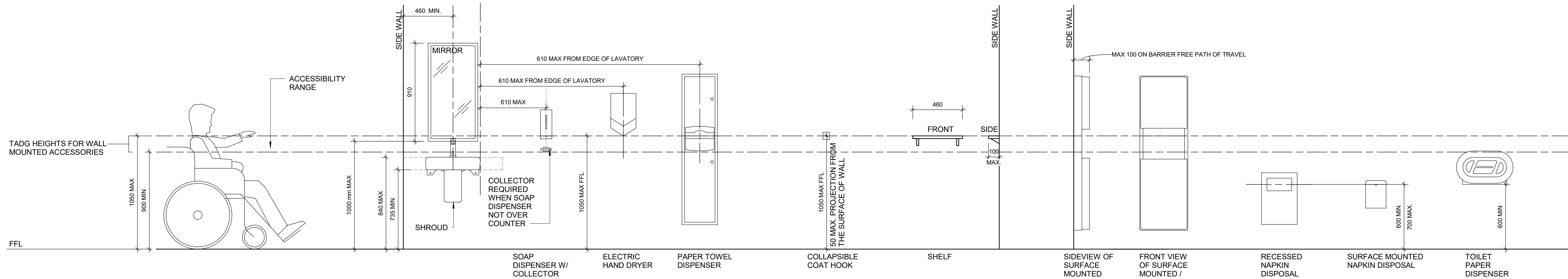
ISSUE  
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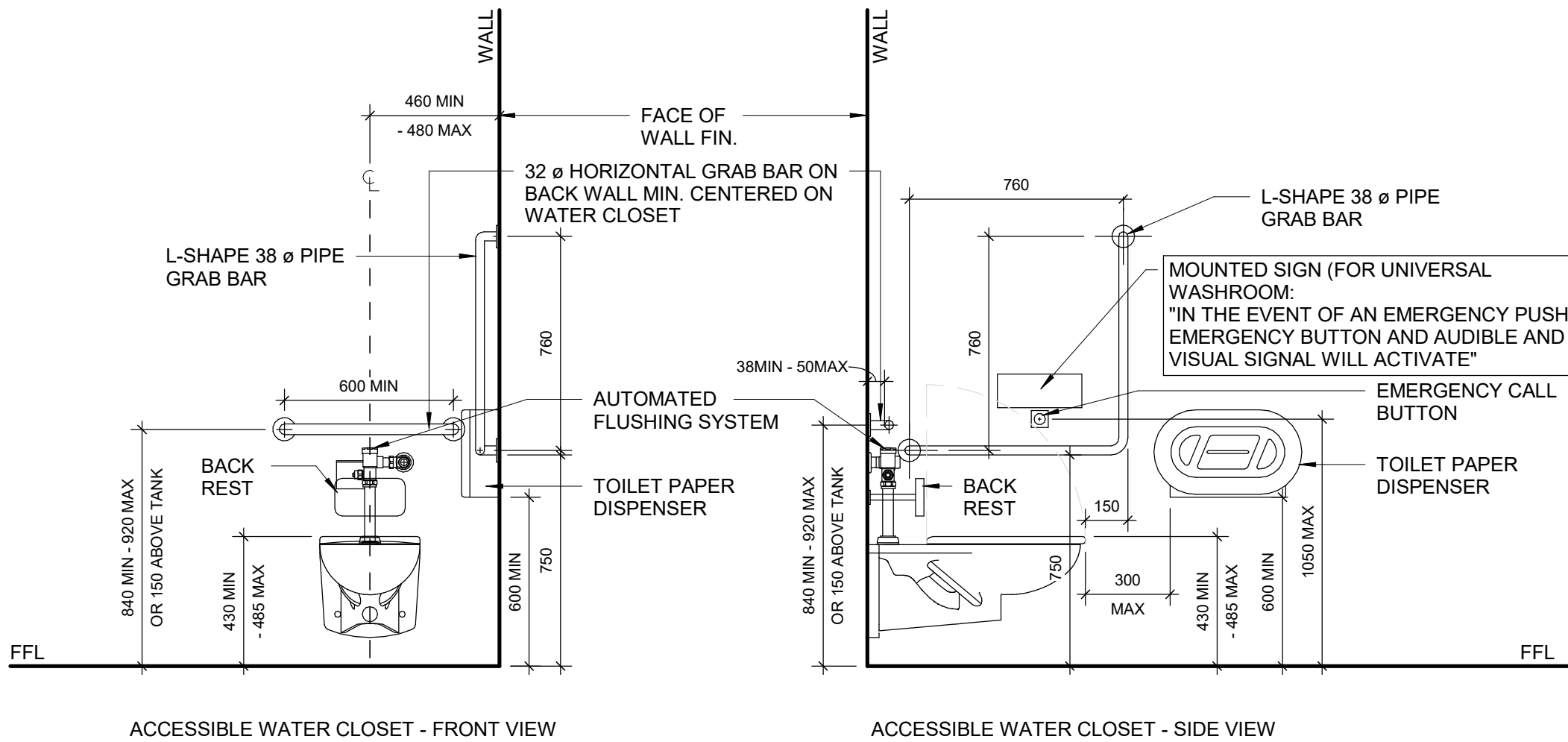


1 ACCESSIBLE SHOWER ACCESSORIES  
D1201 Scale: 1 : 20

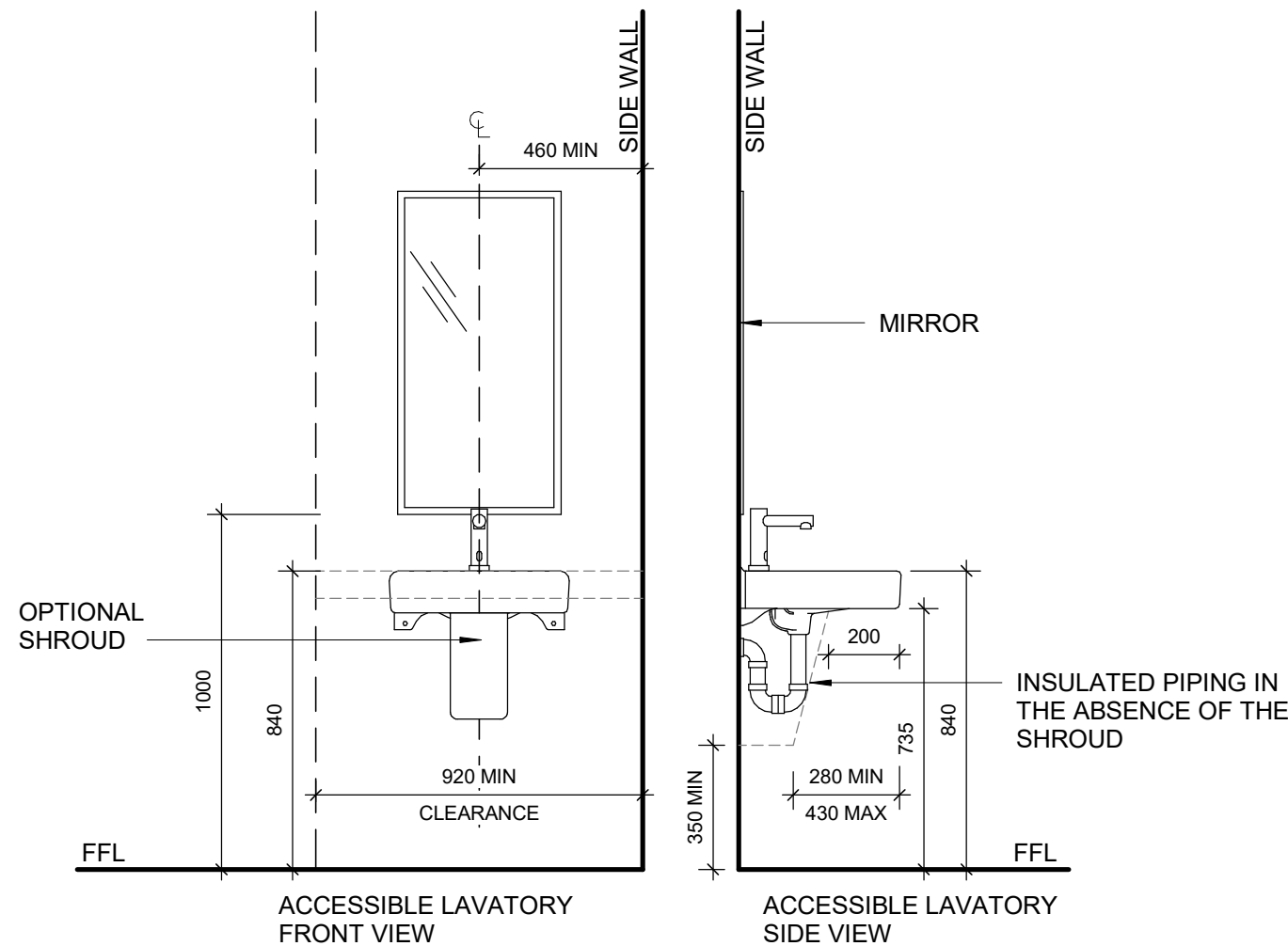
6 WASHROOM/CHANGEROOM BENCH  
D1201 Scale: 1 : 20



2 ACCESSIBLE WASHROOM - ACCESSORIES  
D1201 Scale: 1 : 20

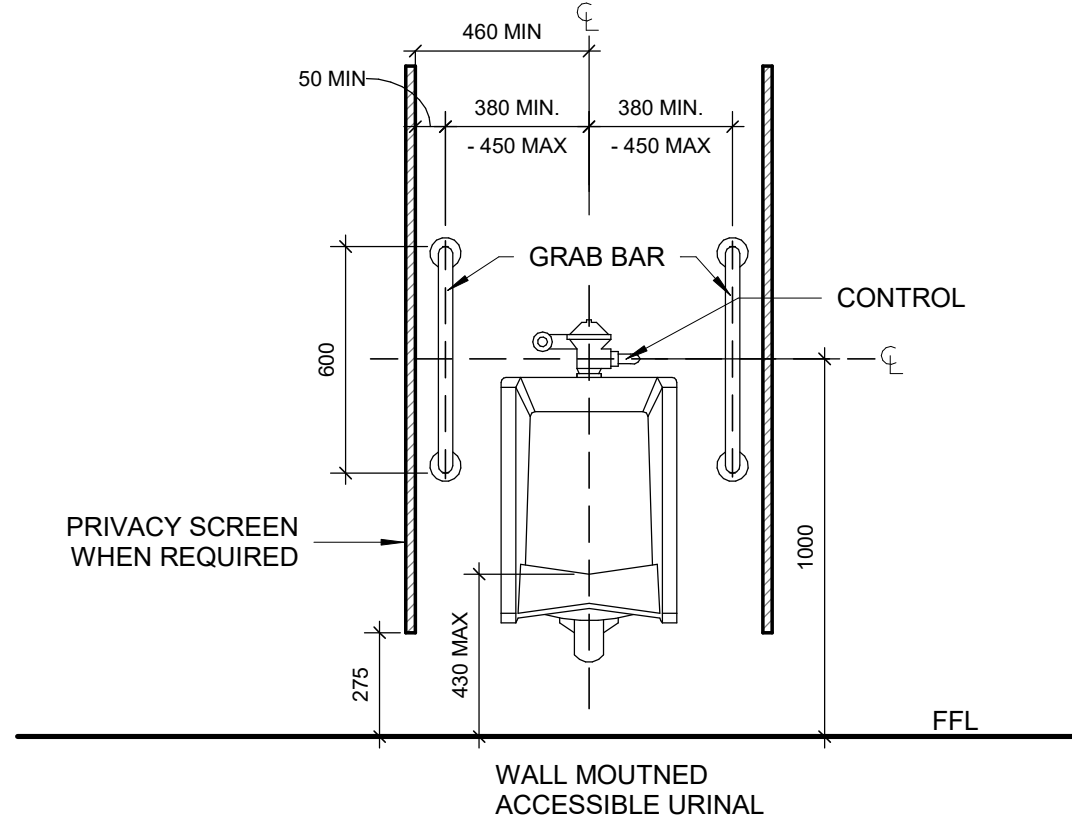


3 ACCESSIBLE WASHROOM - WATER CLOSET  
D1201 Scale: 1 : 20



4 ACCESSIBLE WASHROOM - LAVATORY  
D1201 Scale: 1 : 20

- NOTE:**
- WHEN REPLACING EXISTING URINAL WITH NEW, PATCH AND REPAIR EXISTING WALL. REPLACE WALL FINISHES AS REQUIRED. COLOUR TO MATCH EXISTING.
  - MOISTURE RESISTANT GYPSUM BOARD TO BE PROVIDED IN ALL WASHROOMS AND LOCKER ROOMS.
  - PROVIDE WALL REINFORCEMENT TO SUPPORT FUTURE ADULT CHANGE TABLE MINIMUM LOAD OF 1.33 KN AND POWER OUTLET.



5 ACCESSIBLE WASHROOM - URINAL  
D1201 Scale: 1 : 20

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DRAWN BY:  
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CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
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SHEET TITLE  
**ACCESSIBLE  
WASHROOM, SHOWER &  
ACCESSORIES DETAILS**

SHEET NUMBER  
**GAL-D1201**

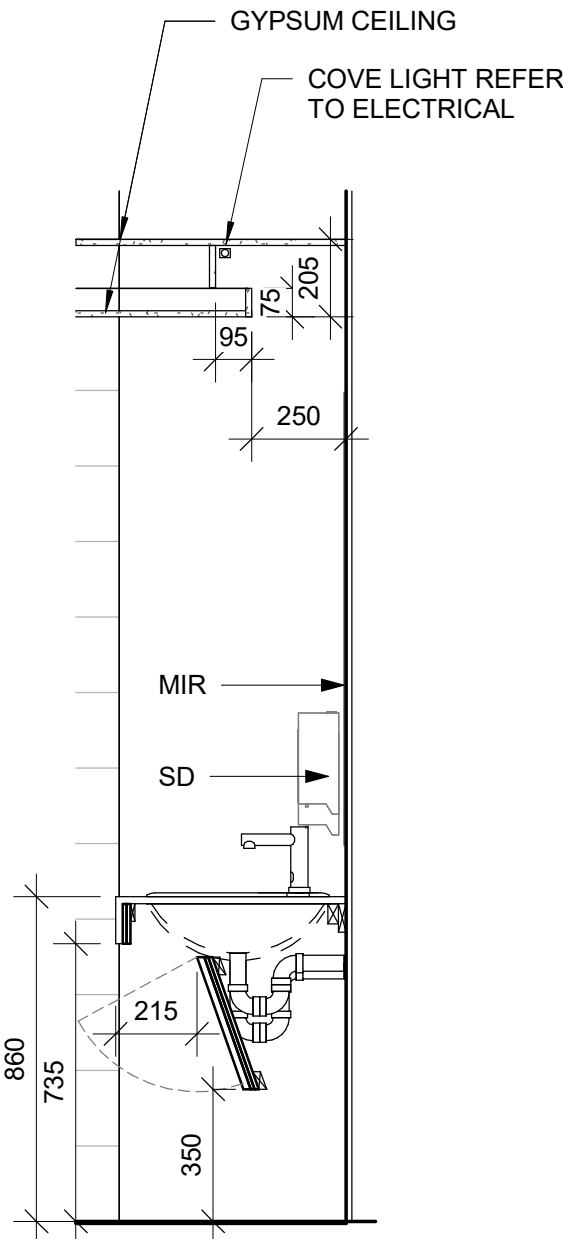
ISSUE  
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- UNIVERSAL WASHROOM GENERAL NOTES:**
- ALL DIMENSIONS ARE TAKEN FROM FINISH FLOOR SURFACE.
  - MOISTURE RESISTANT GYPSUM BOARD TO BE PROVIDED IN ALL WASHROOMS AND LOCKER ROOMS.
  - PROVIDE WALL REINFORCEMENT TO SUPPORT FUTURE ADULT CHANGE TABLE MINIMUM LOAD OF 1.33 KN AND POWER OUTLET
  - SEE STANDARD MOUNTING HEIGHTS ON D1201
  - WASHROOM ARRANGMENTS FOR ILLUSTRATION PURPOSES -REFER TO EACH BUILDING ENLARGED PLAN WASHROOM FOR EXACT ARRANGEMENT

3 SECTION THROUGH VANITY  
D1204 Scale: 1 : 20

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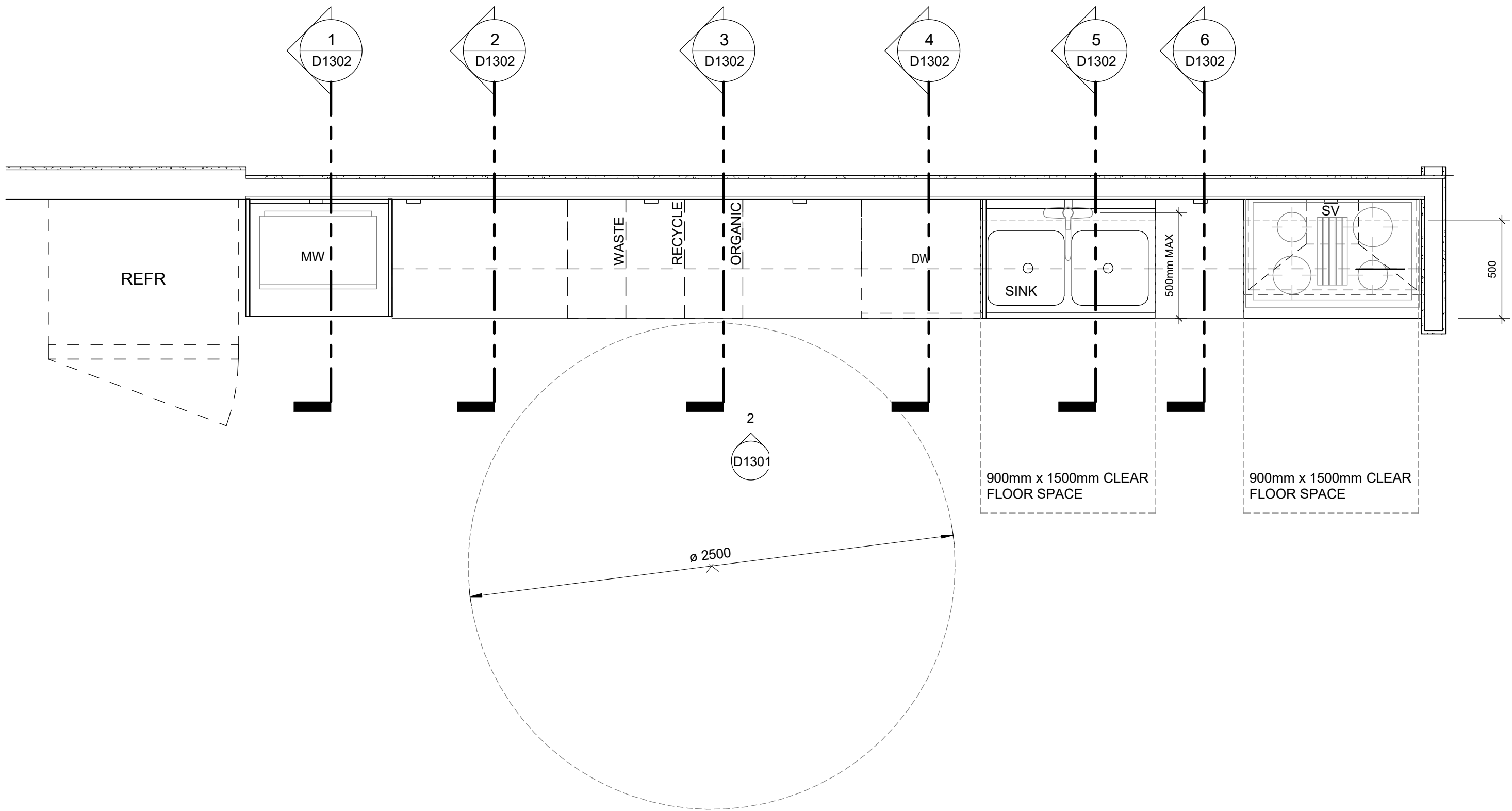
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DRAWN BY: <b>A. BOYNARIAN</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

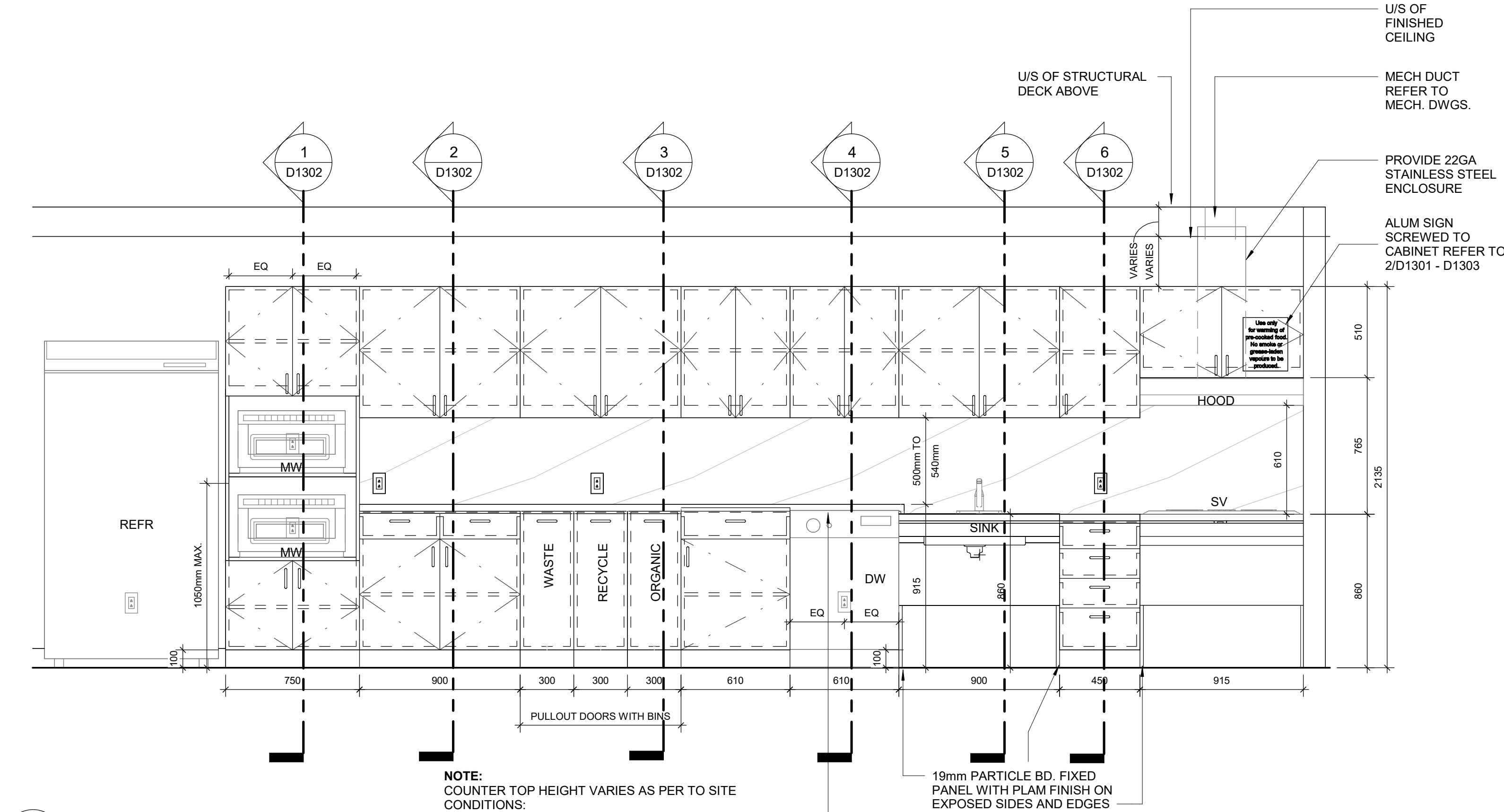
SHEET TITLE  
**WASHROOM VANITY  
SECTION DETAIL**

SHEET NUMBER <b>GAL-D1204</b>	ISSUE <b>H</b>
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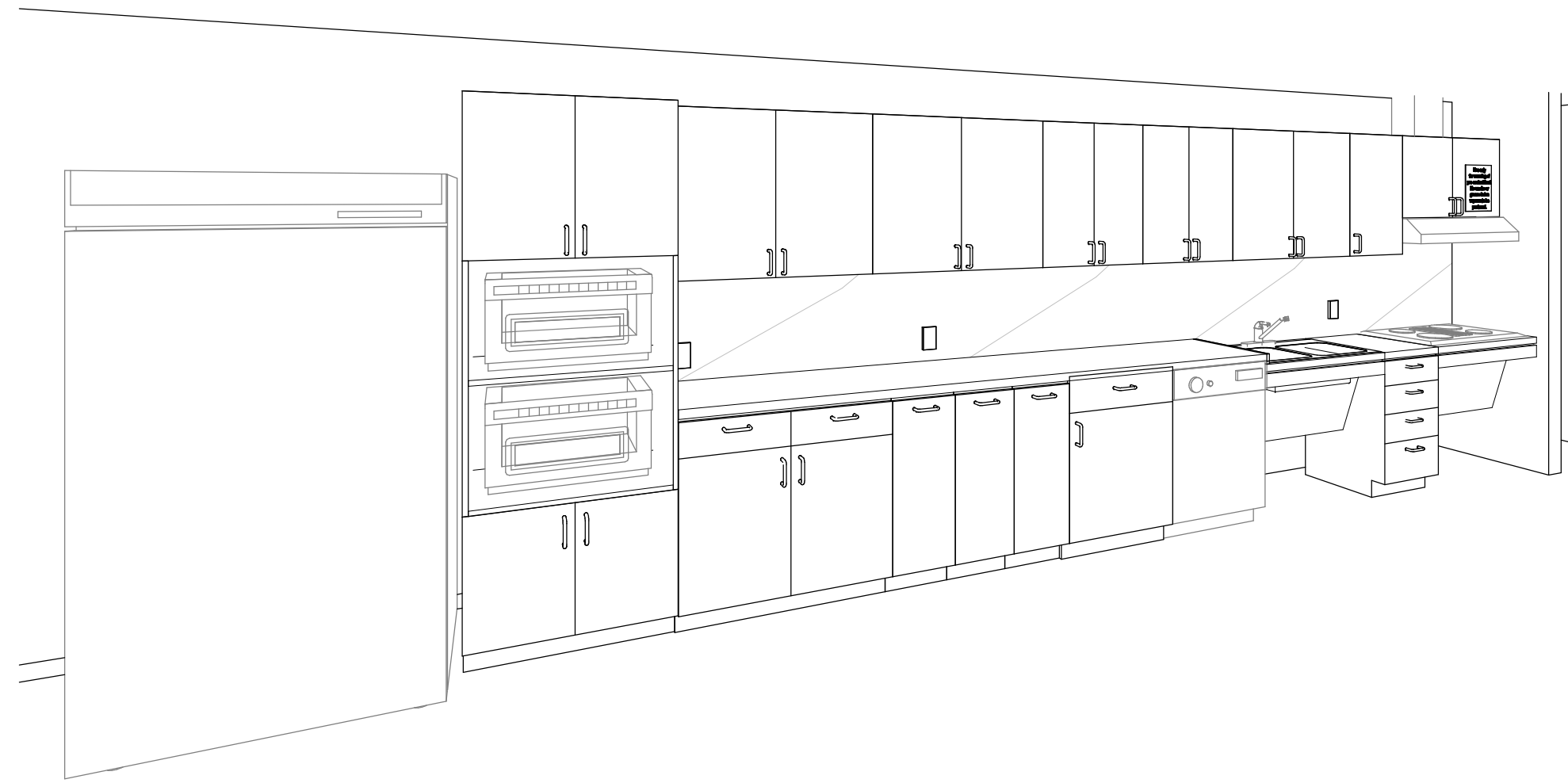


1 KITCHEN PLAN  
D1301 Scale: 1 : 20

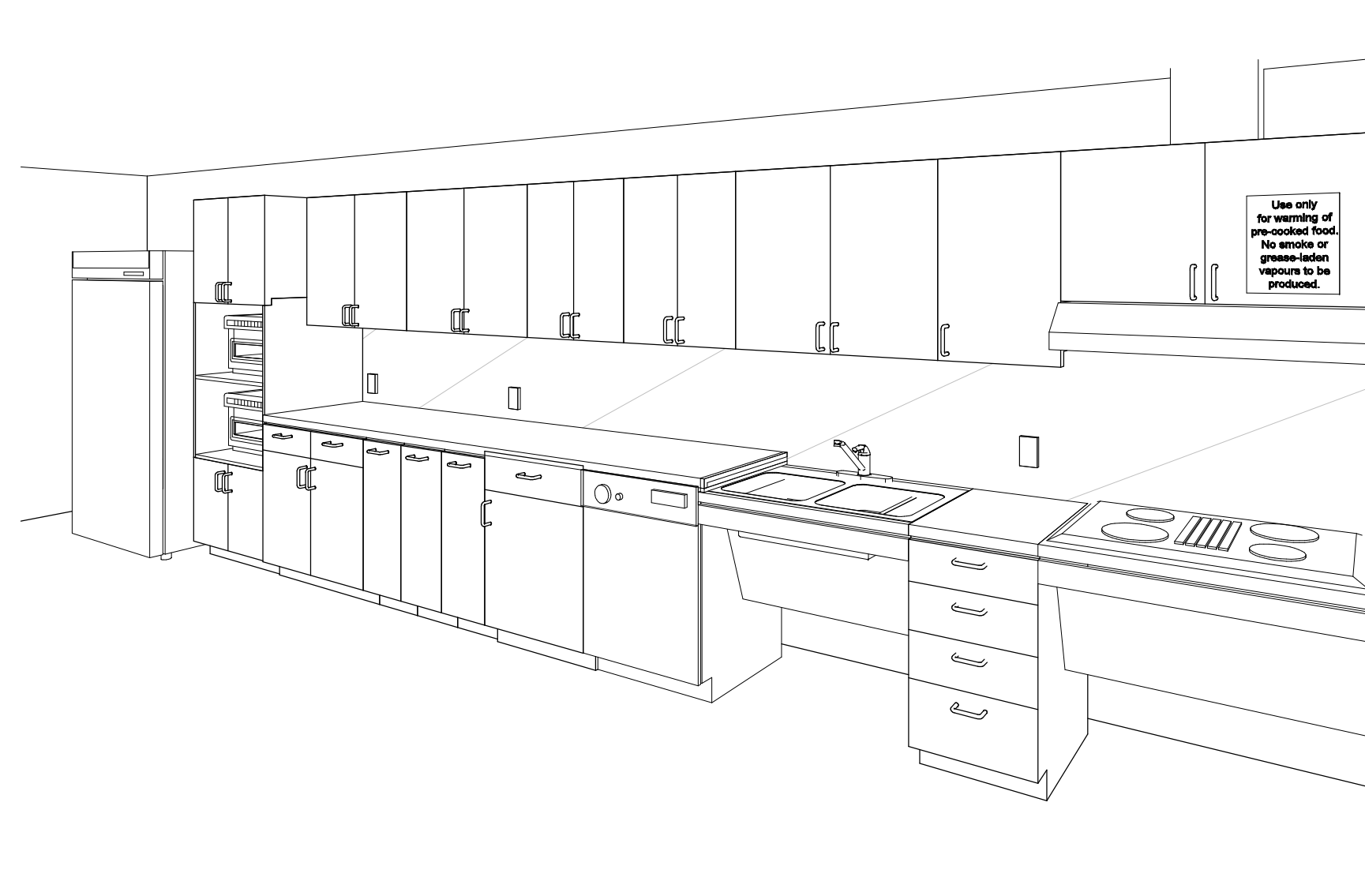


2 KITCHEN MILLWORK ELEVATION  
D1301 Scale: 1 : 20

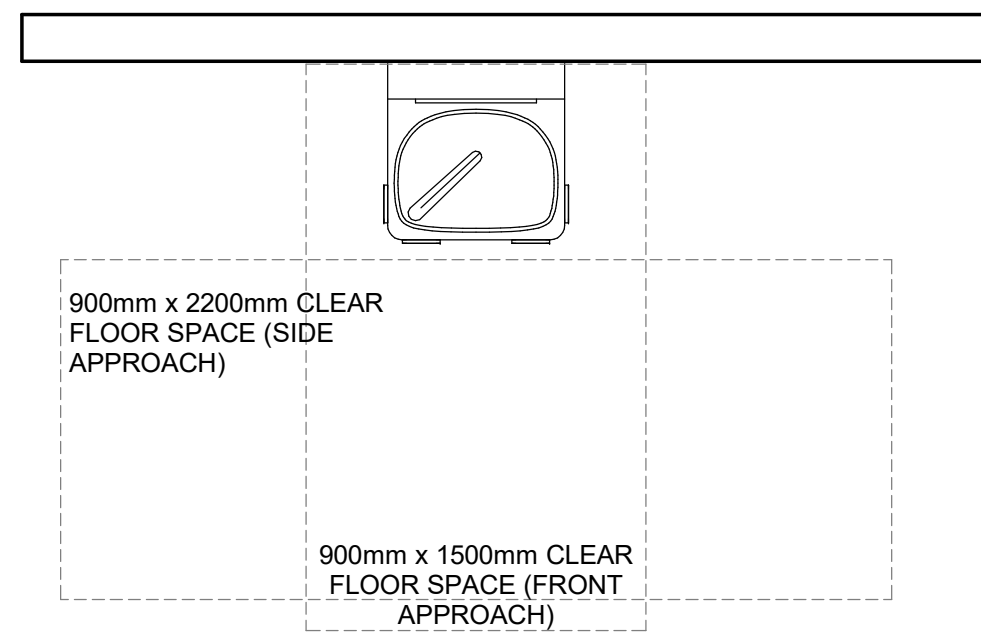
- NOTE:**  
COUNTER TOP HEIGHT VARIES AS PER TO SITE CONDITIONS:
- WITH AN EXISTING DISHWASHER:  
COUNTER TOP HEIGHT 915mm STEPPING DOWN TO 860mm AT THE SINK AND STOVE LOCATION.  
REFER TO NOTE #2
  - WITHOUT AN EXISTING DISHWASHER: COUNTER TOP HEIGHT 860mm CONTINUOUSLY THROUGH OUT.



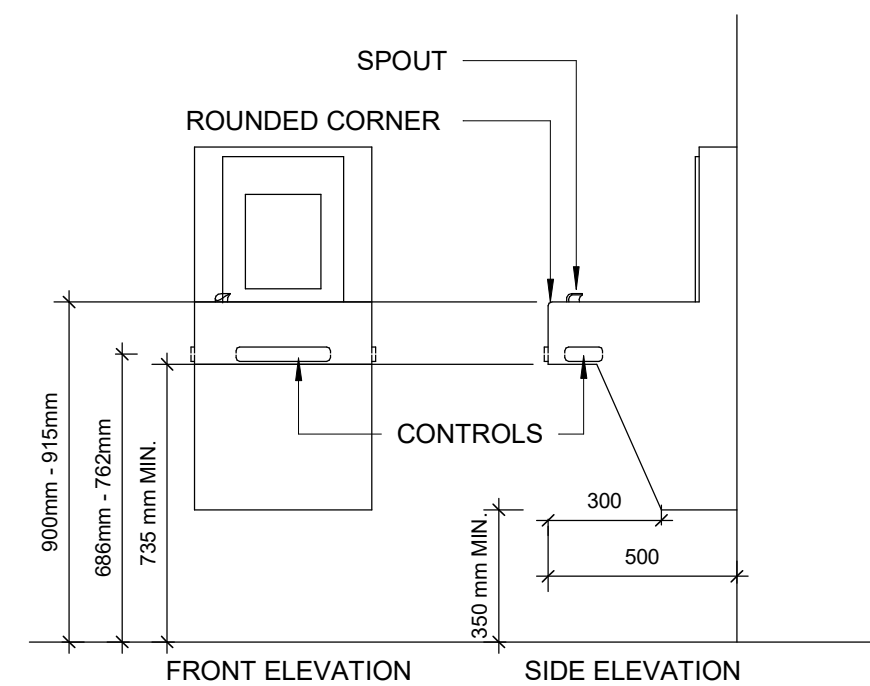
3 KITCHEN PERSPECTIVE 01  
D1301 Scale:



4 KITCHEN PERSPECTIVE 02  
D1301 Scale:



5 DRINKING FOUNTAIN PLAN  
D1301 Scale: 1 : 20



6 DRINKING FOUNTAIN ELEVATION  
D1301 Scale: 1 : 20

- NOTE:**
- ALL APPLIANCES ARE OUT OF SCOPE AND ARE FOR INDICATION PURPOSES ONLY
  - CONTRACTOR TO CONFIRM APPLIANCES SIZES PRIOR TO FABRICATION OF MILLWORK

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DRAWN BY:  
**A. BOYNARIAN**

CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**E. FENUTA**

SHEET TITLE  
**KITCHEN MILLWORK  
PLANS & ELEVATIONS**

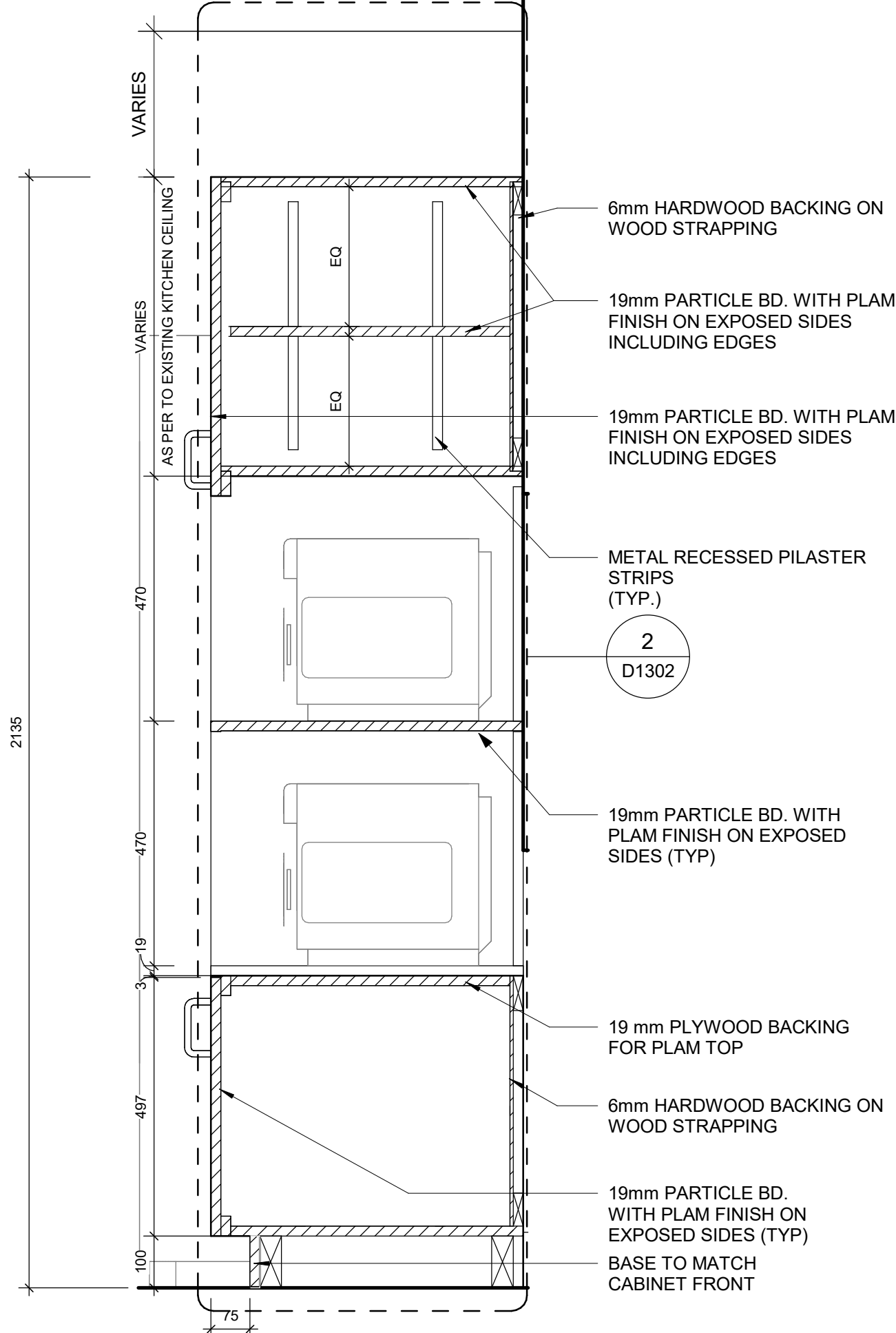
SHEET NUMBER

**GAL-D1301**

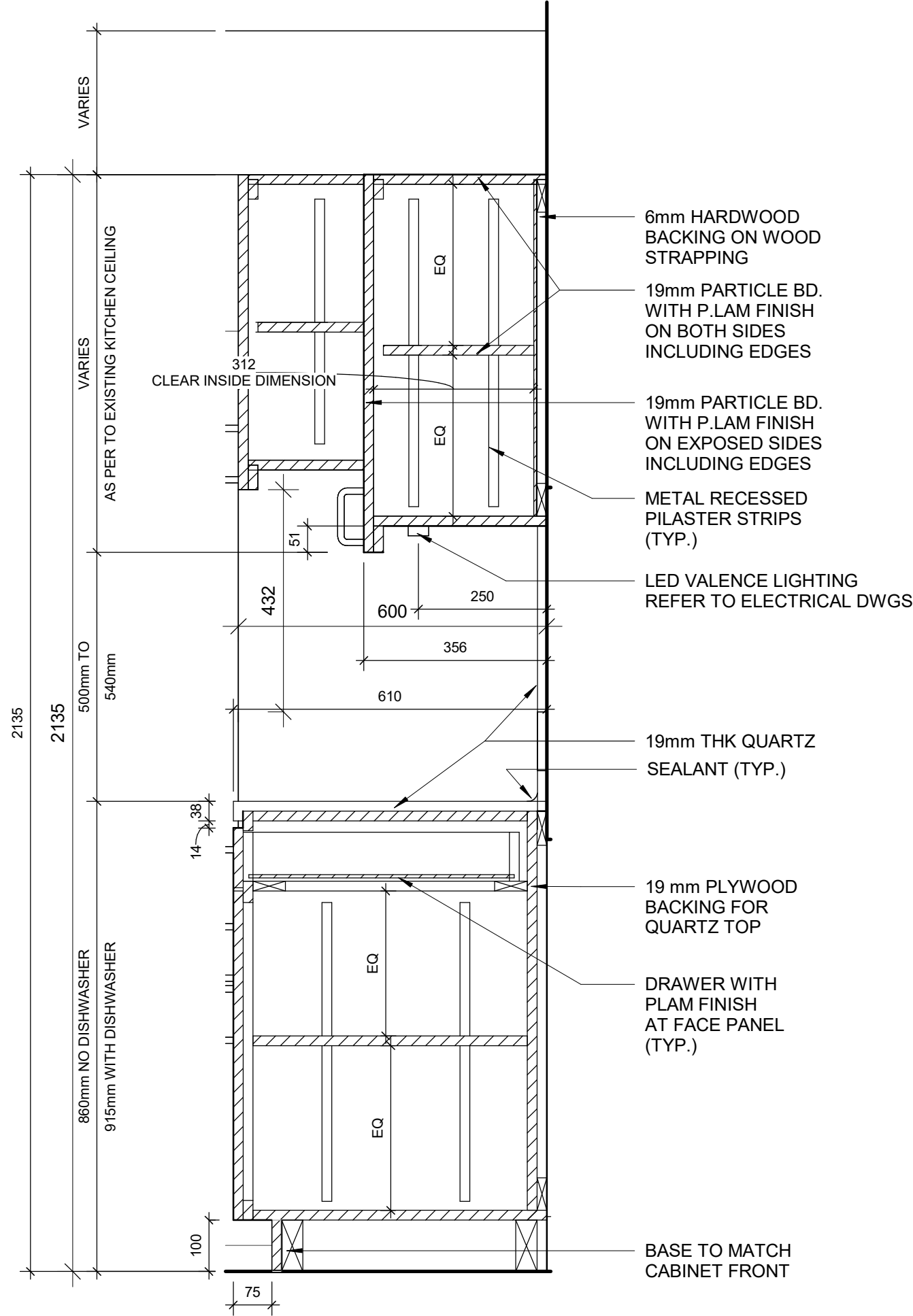
ISSUE

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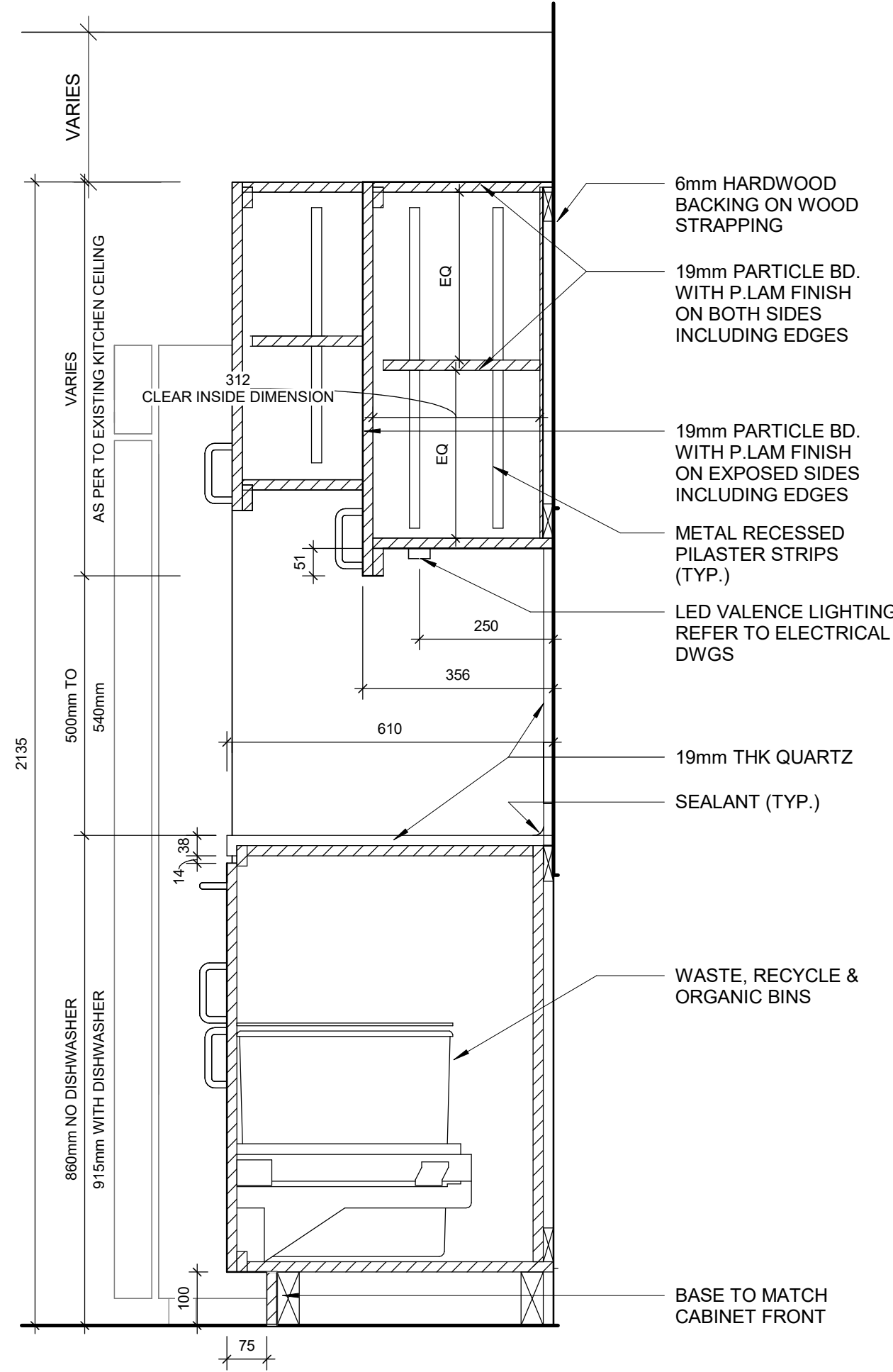




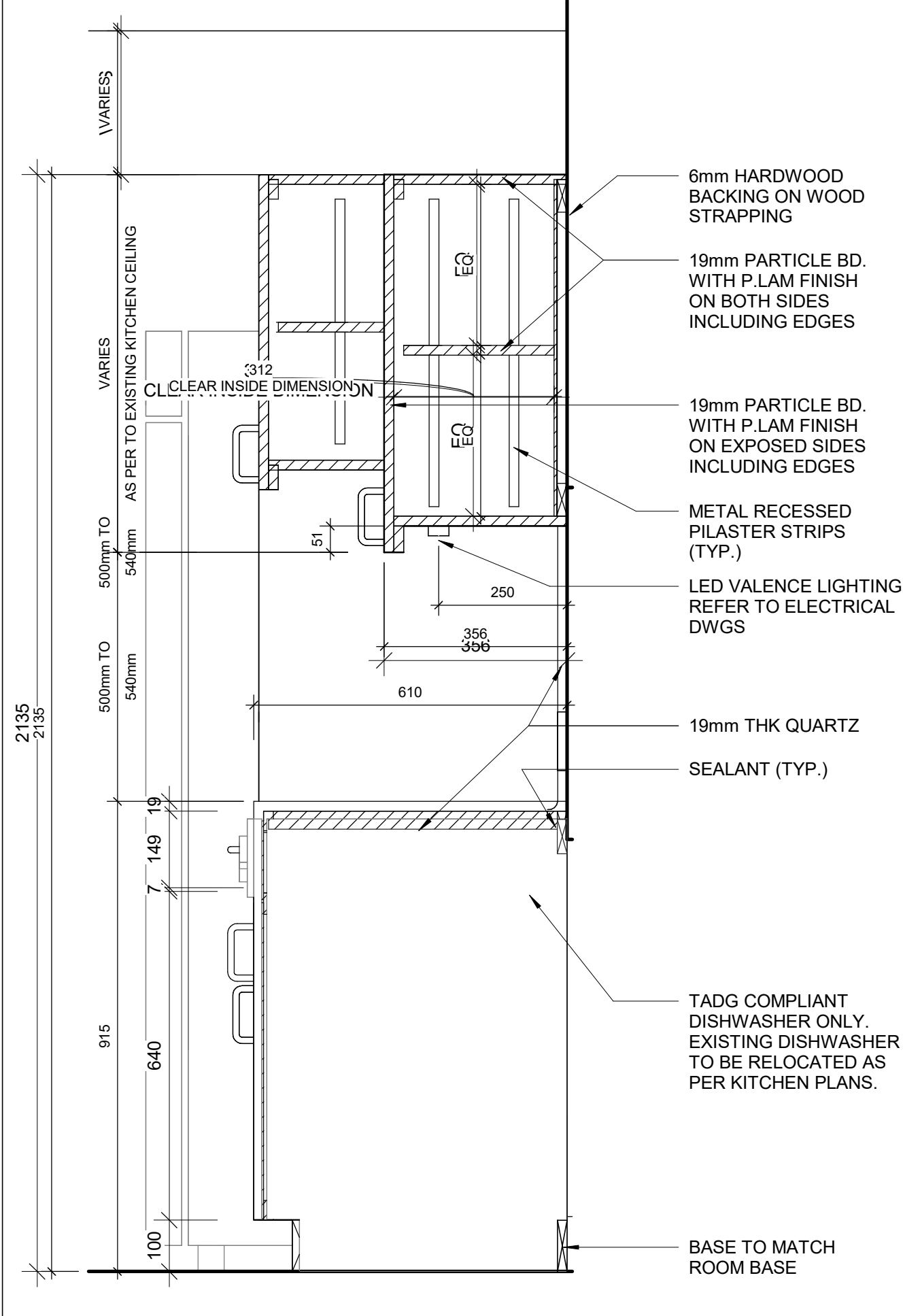
1 BASE CABINETRY- MICROWAVE STORAGE  
D1302 Scale: 1 : 10



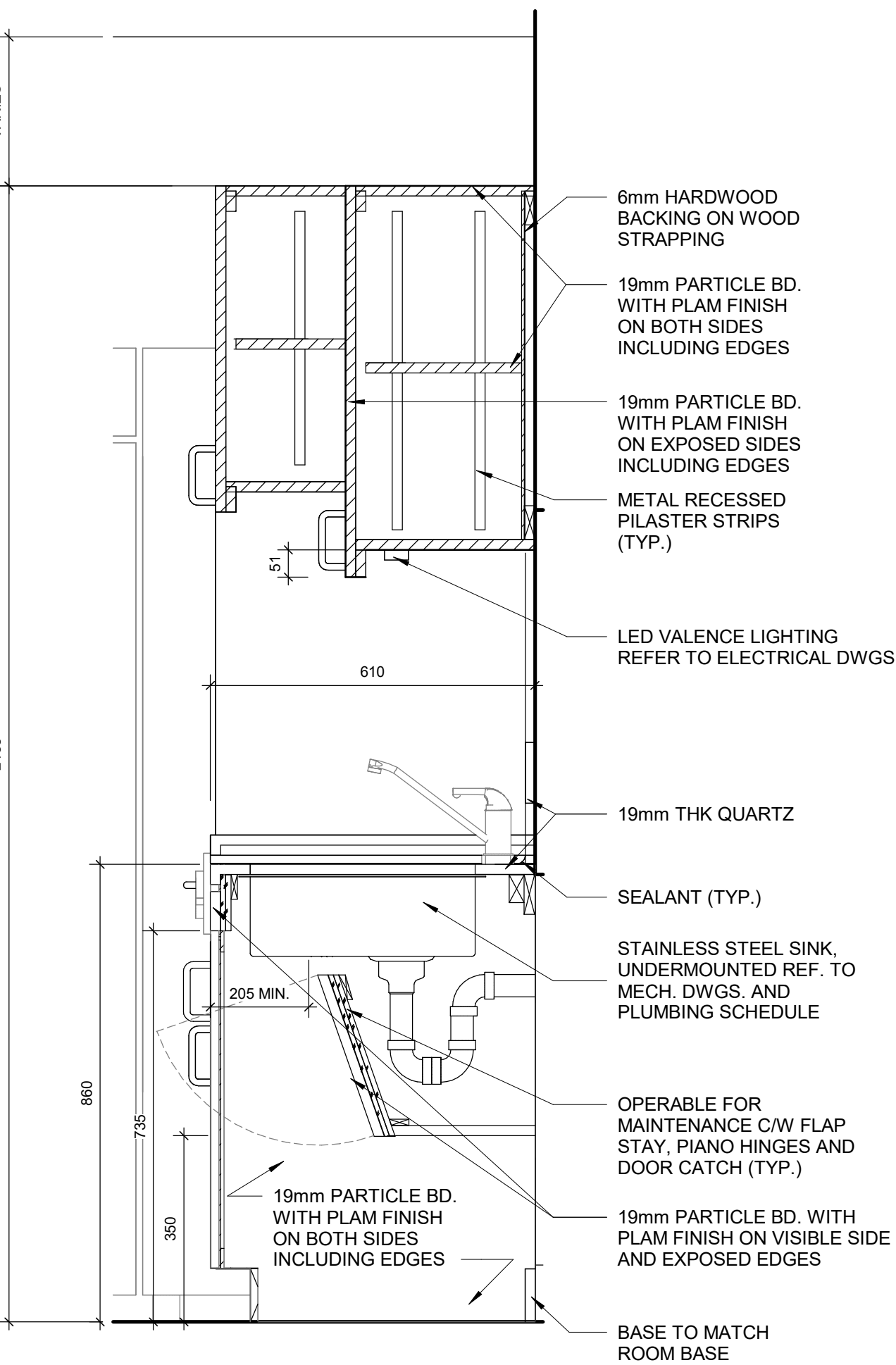
2 BASE CABINETRY WITH DRAWER  
D1302 Scale: 1 : 10



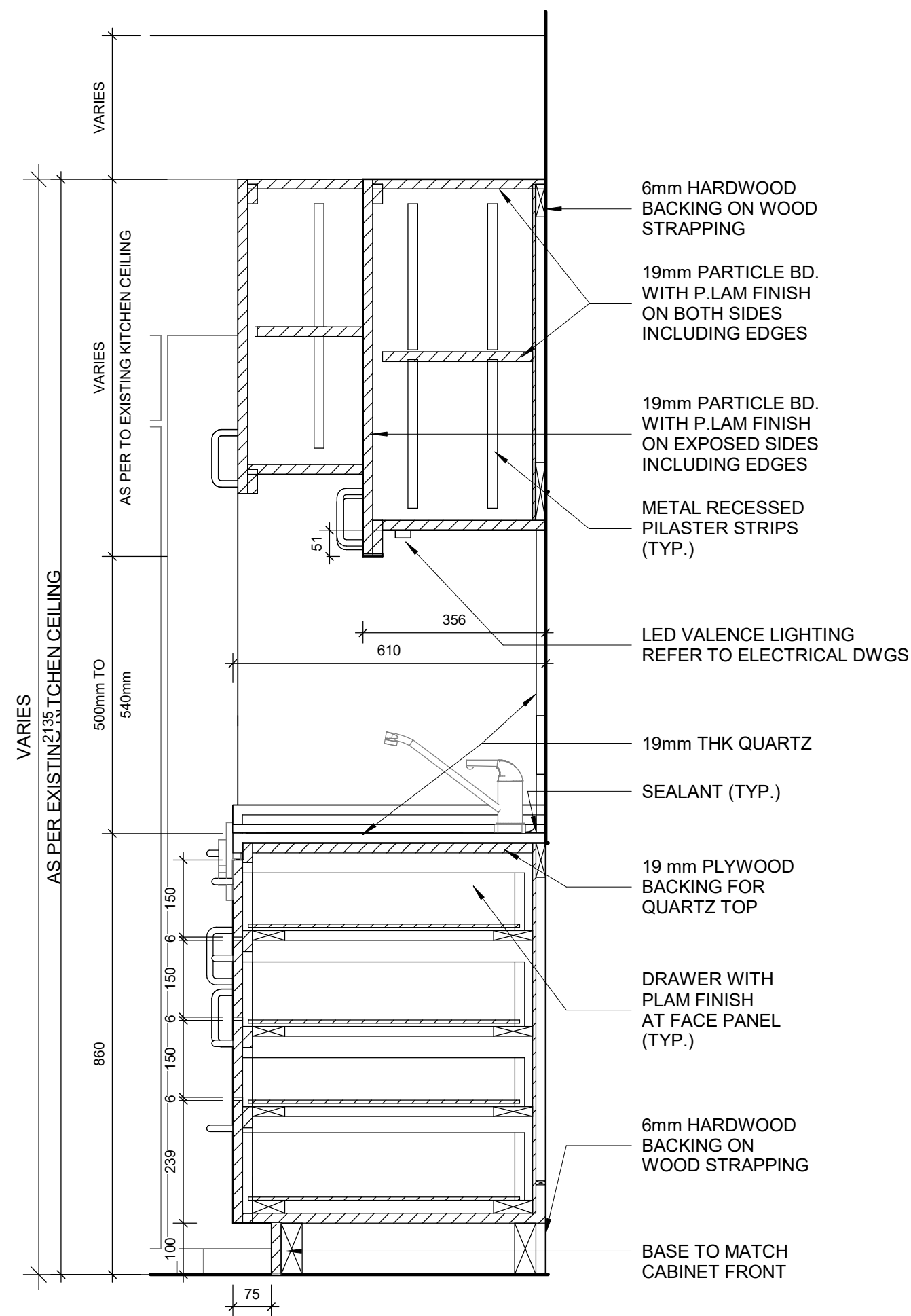
3 BASE CABINETRY WITH GARBAGE BIN  
D1302 Scale: 1 : 10



4 BASE CABINETRY WITH DISHWASHER  
D1302 Scale: 1 : 10

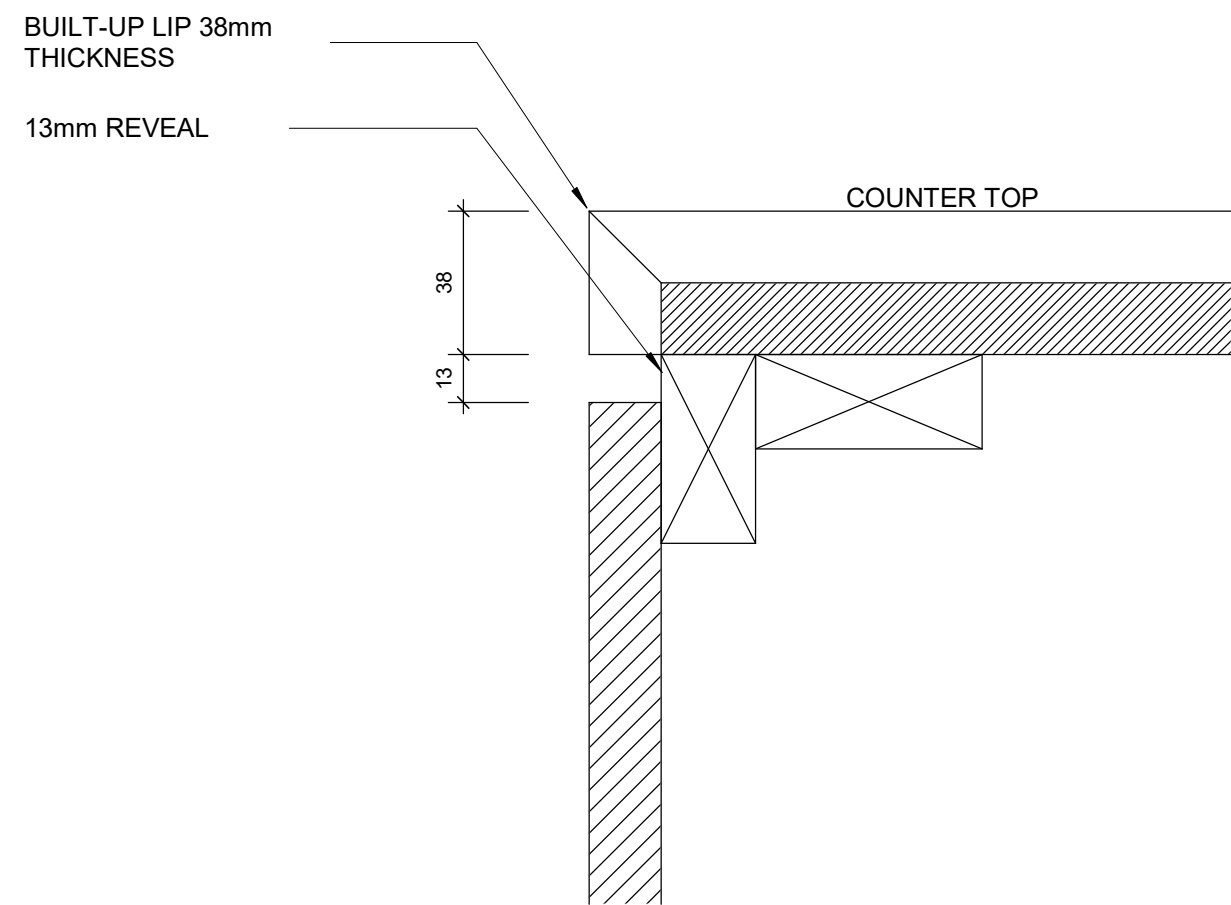


5 BASE CABINETRY WITH SINK  
D1302 Scale: 1 : 10



6 BASE CABINETRY WITH FOUR DRAWERS  
D1302 Scale: 1 : 10

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8 TYPICAL BUILT-UP NOSING DOOR COUNTER TOP  
D1302 Scale: 1 : 2

- NOTE:**
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PROJECT MGR:  
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APPROVED BY:  
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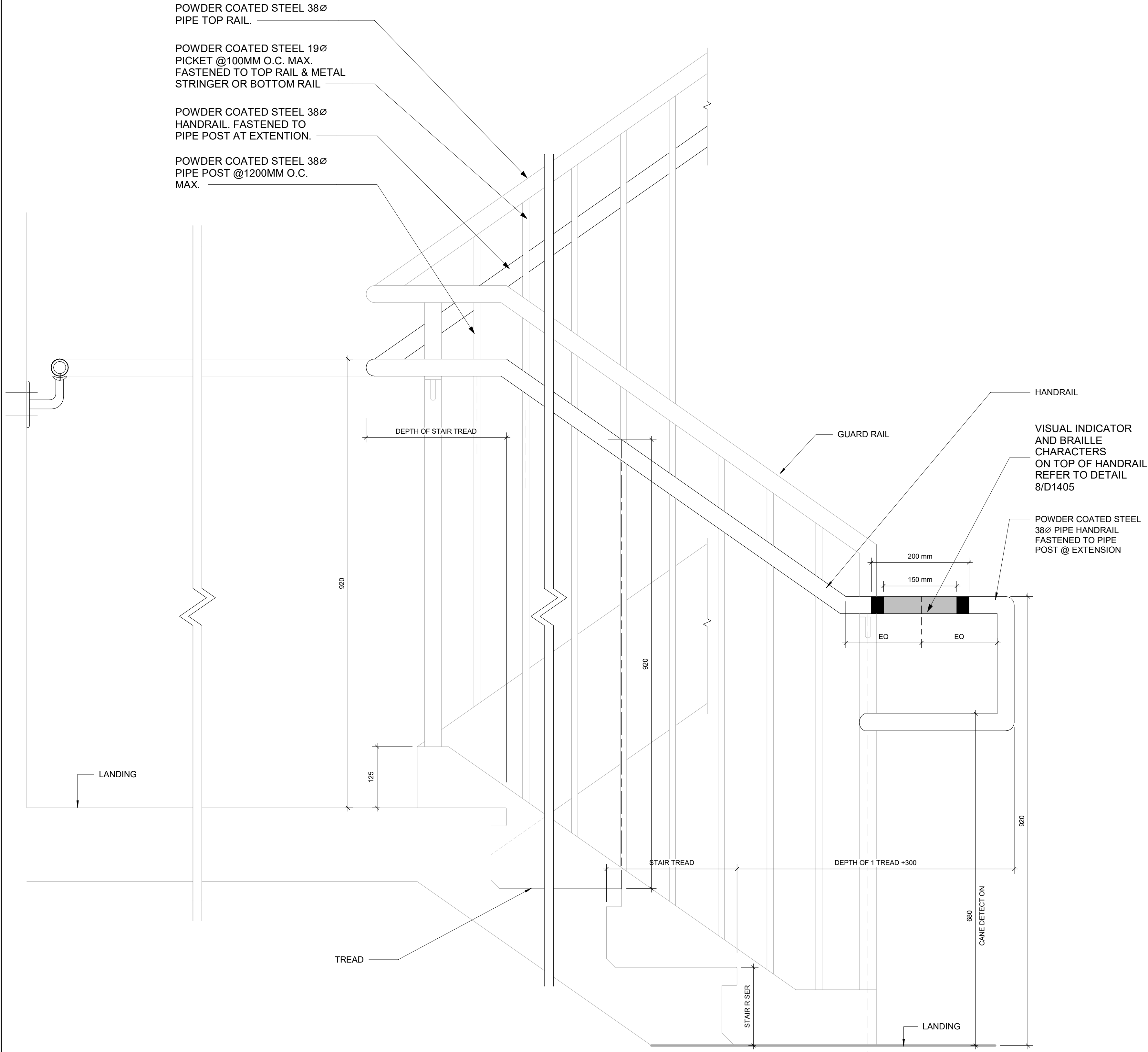
SHEET TITLE  
**KITCHEN MILLWORK  
DETAIL SECTIONS**

SHEET NUMBER  
**GAL-D1302**

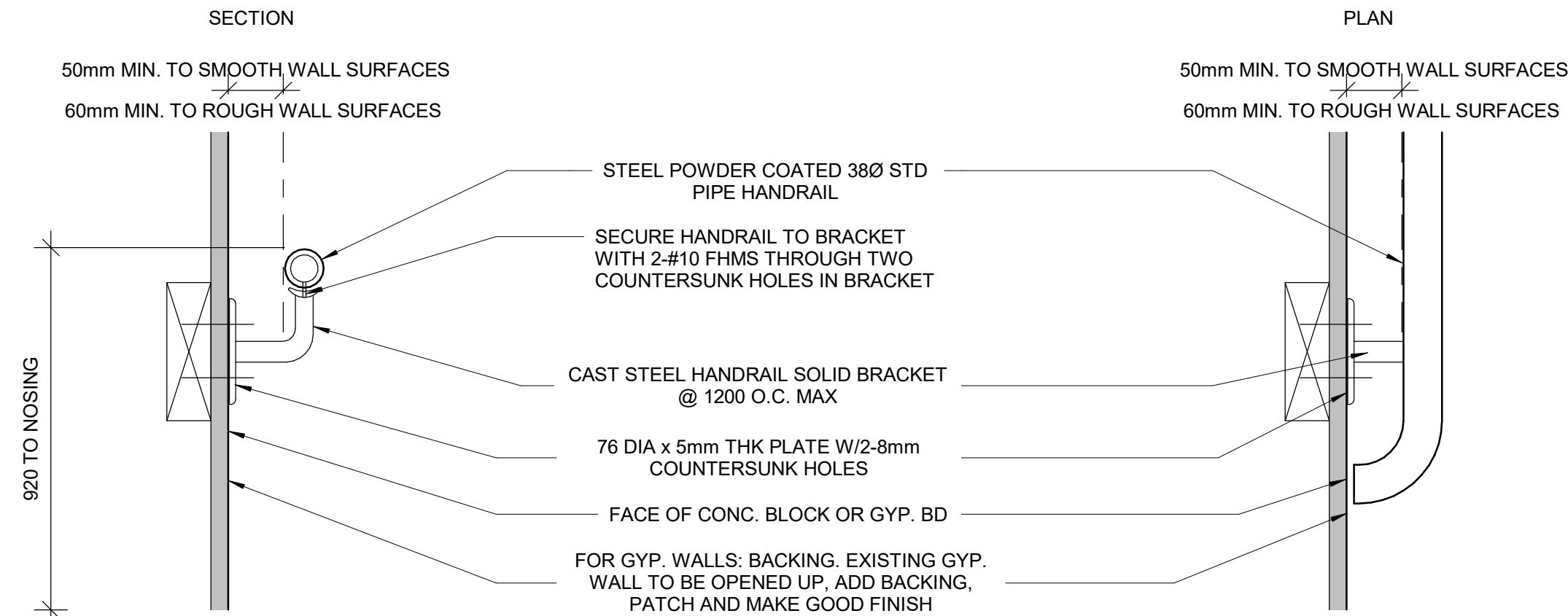
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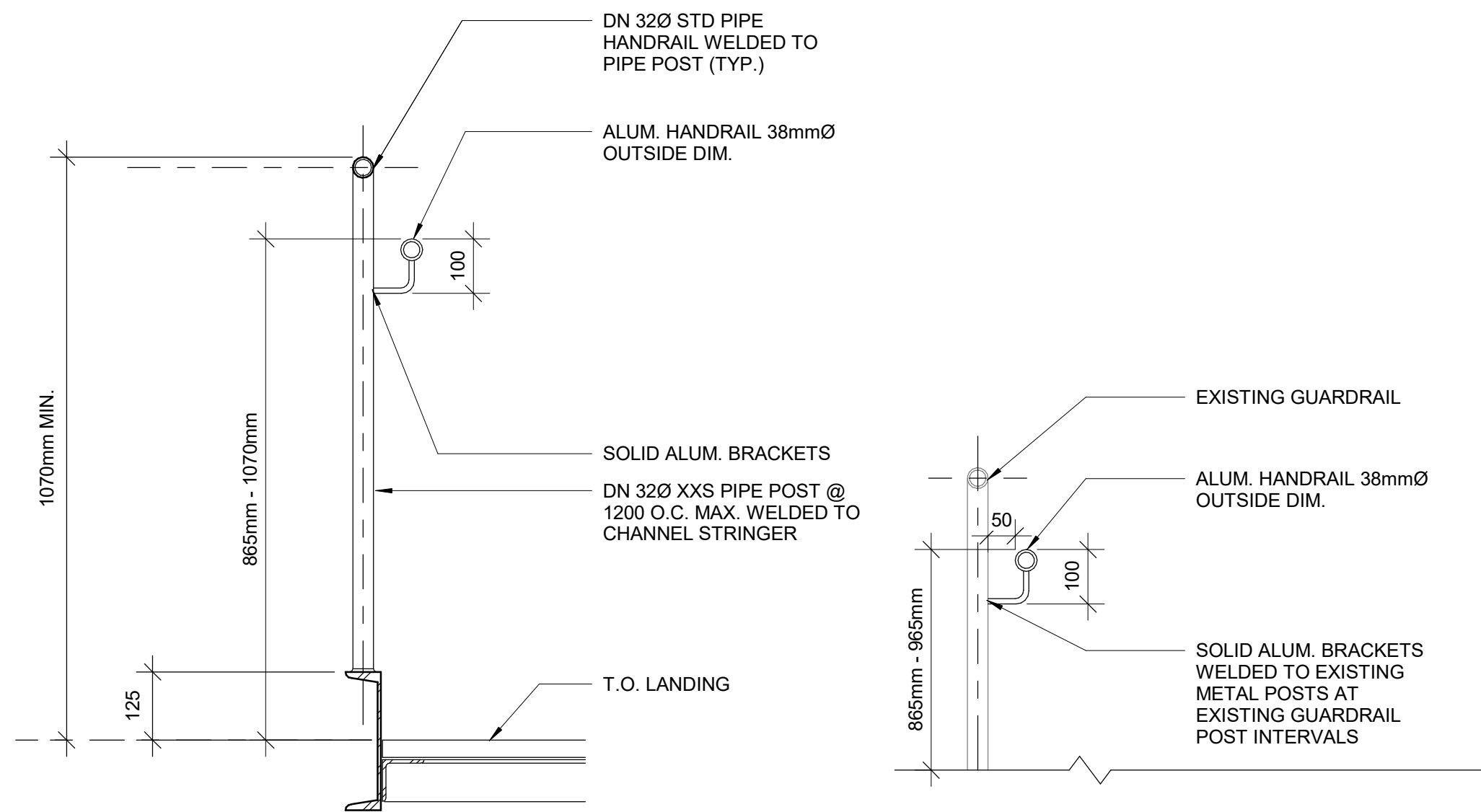
3 STAIR DETAIL WITH HANDRAIL & GUARD  
D1401 Scale: 1 : 5



- NOTES:
- INTERIOR GUARDS AND HANDRAILS TO BE STEEL WITH POWDER COATED FINISH UNLESS NOTED OTHERWISE
  - EXTERIOR GUARDS AND HANDRAILS TO BE GALVANIZED STEEL WITH POWDER COATED FINISH UNLESS NOTED OTHERWISE
  - FOR ALL TACTILE INDICATOR, USE TA-1A - YELLOW COLOUR UNLESS OTHERWISE NOTED
  - FOR ALL TEXTURE AND CONTRAST WARNING STRIP INTERIOR APPLICATION, USE TA-10 - YELLOW COLOUR UNLESS OTHERWISE NOTED
  - FOR ALL TEXTURE AND CONTRAST WARNING STRIP EXTERIOR APPLICATION, USE TA-11, EXCEPT CAST IN PLACE EXTERIOR CONCRETE APPLICATION USE TA-12

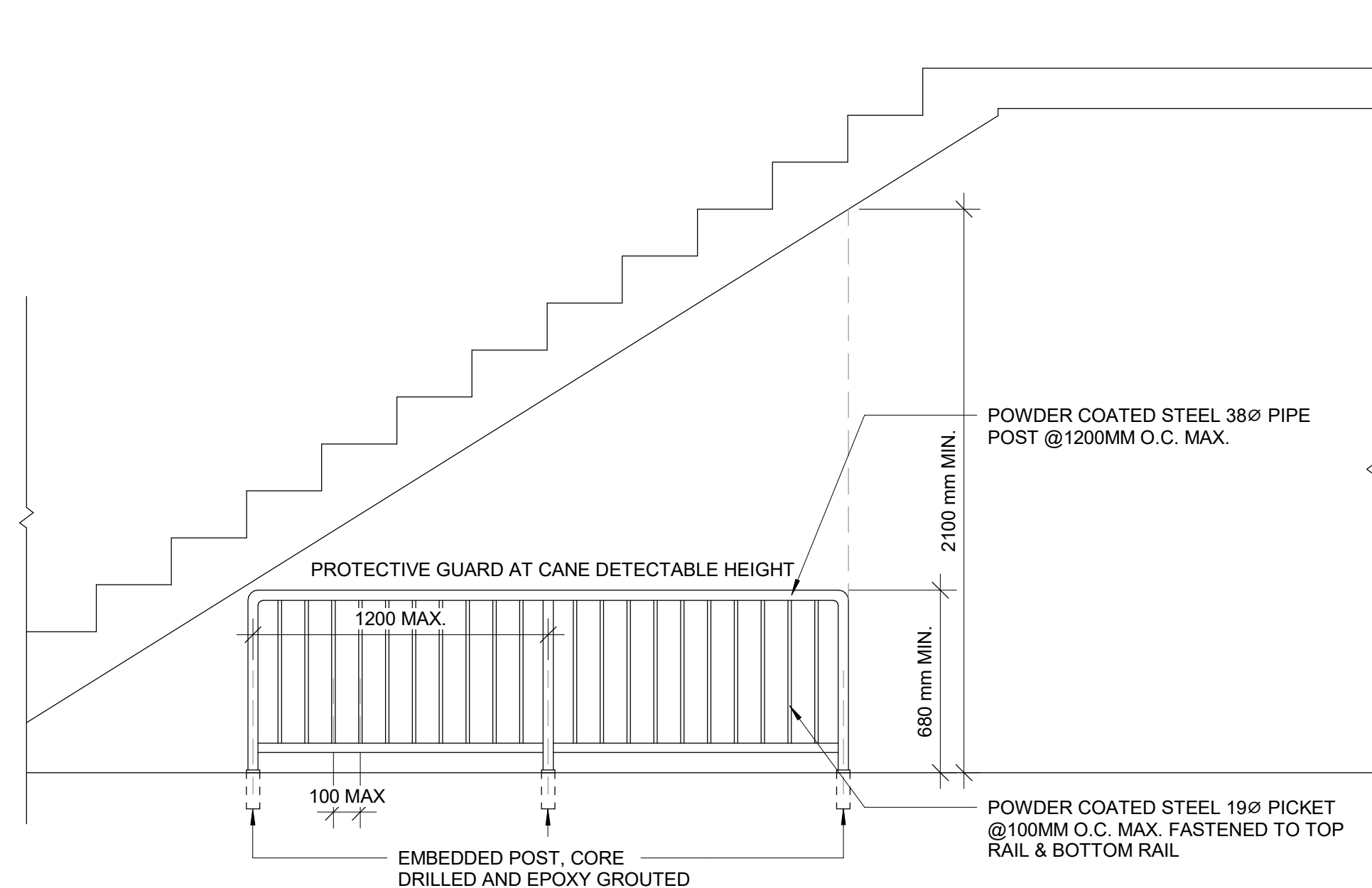


1 STAIR HANDRAIL DETAIL  
D1401 Scale: 1 : 5



2 TYPICAL GUARDRAIL DETAIL AT LANDING  
D1401 Scale: 1 : 10

5 EXISTING GUARDRAIL RETROFIT DETAIL  
D1401 Scale: 1 : 10



4 PROTECTION GUARD UNDER STAIRS  
D1401 Scale: 1 : 20

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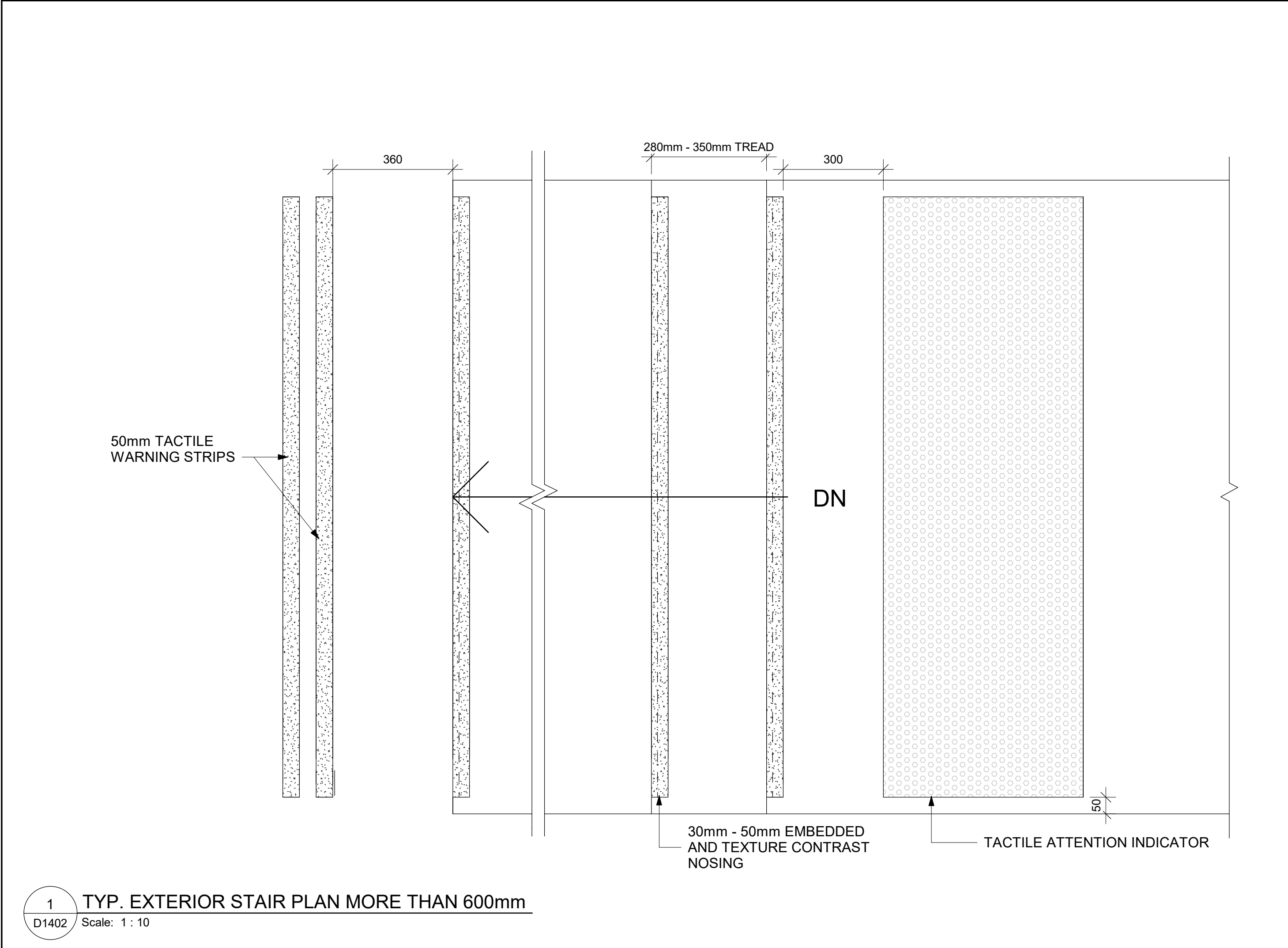
APPROVED BY:  
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SHEET TITLE  
**STAIR DETAILS - 01**

SHEET NUMBER  
**GAL-D1401**

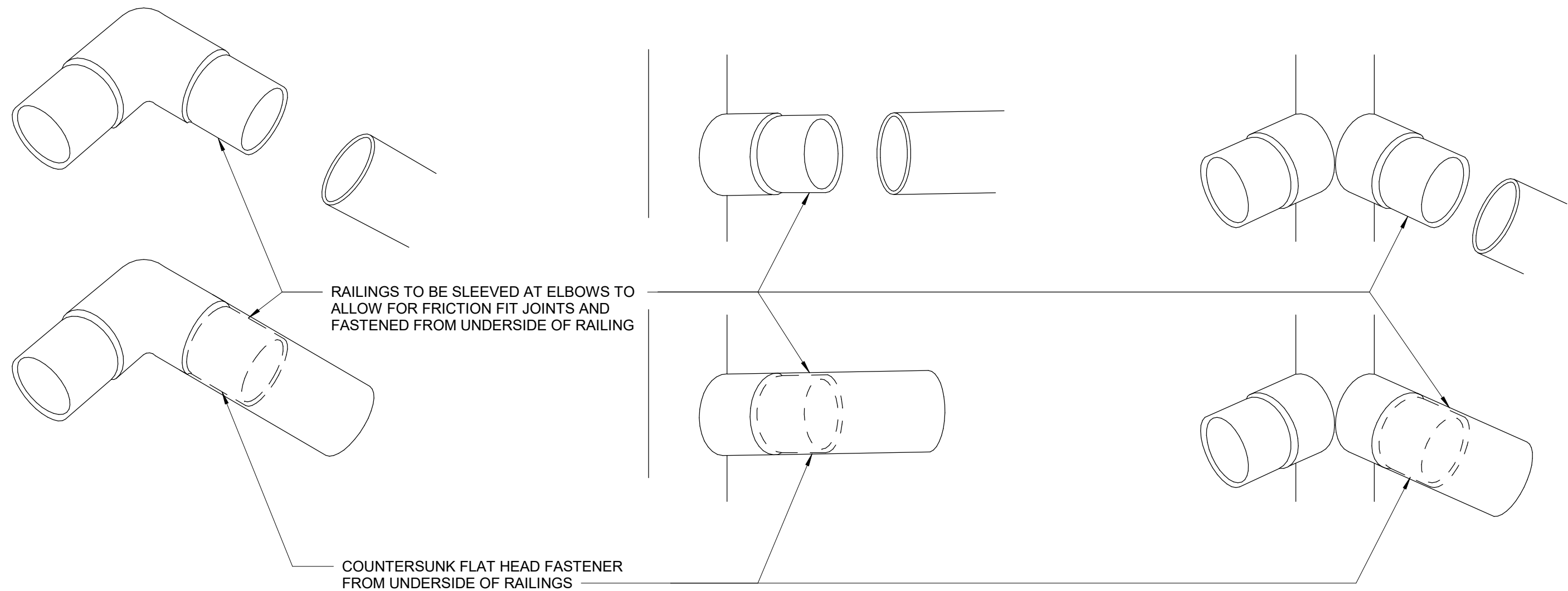
ISSUE  
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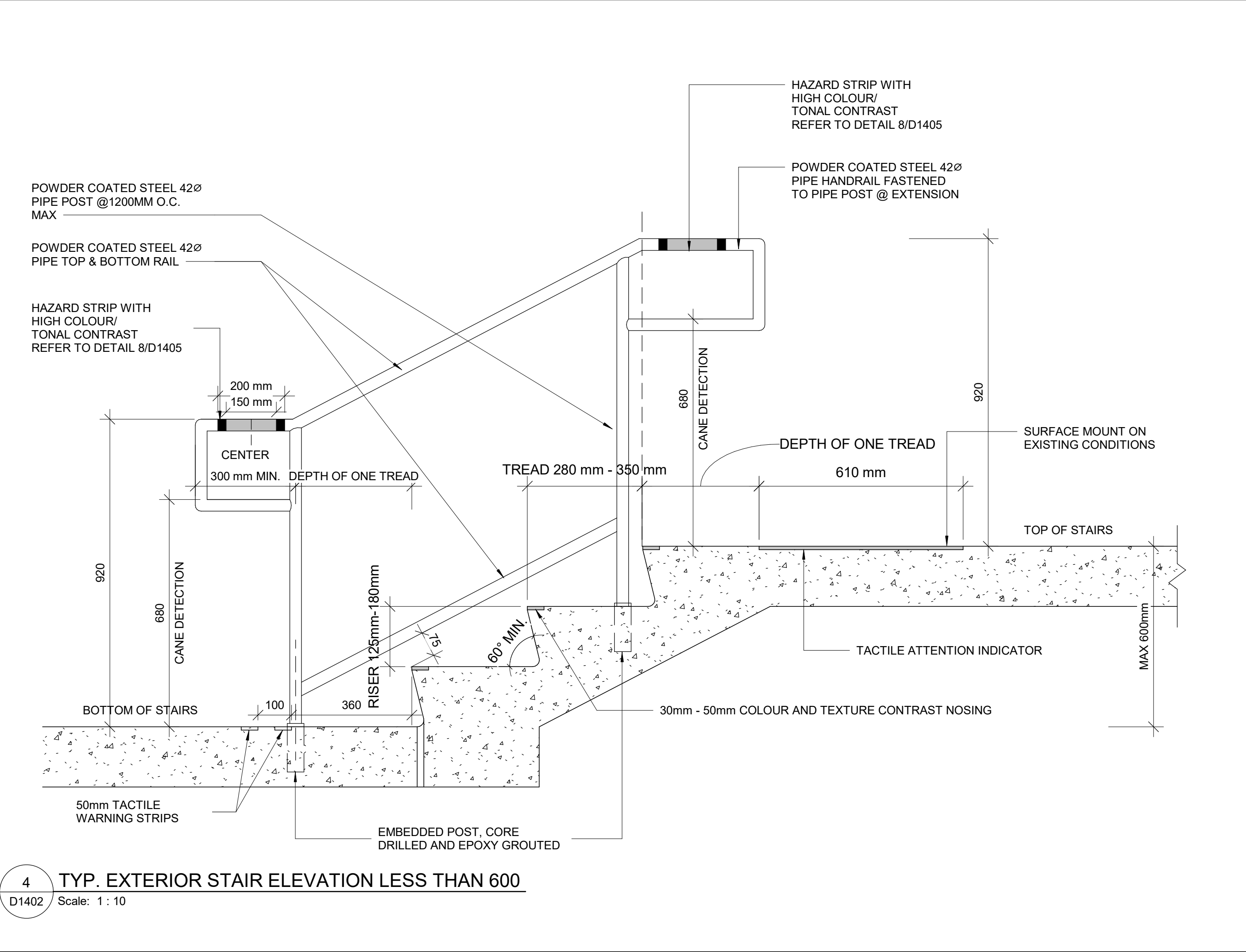
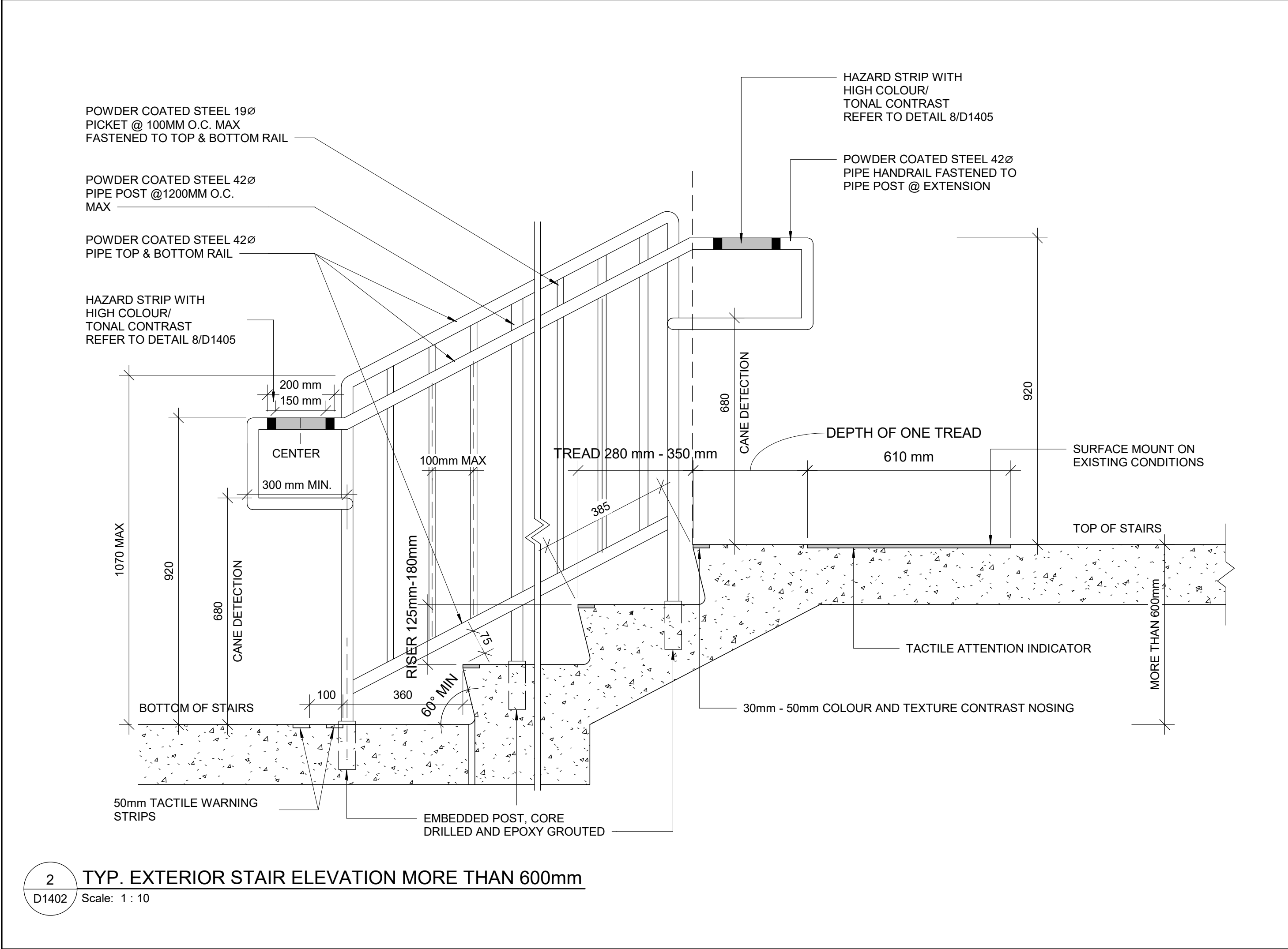
- NOTES:
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  - FOR ALL TEXTURE AND CONTRAST WARNING STRIP EXTERIOR APPLICATION, USE TA-11, EXCEPT CAST IN PLACE EXTERIOR CONCRETE APPLICATION USE TA-12

NOTE: 90 DEGREE CONDITION SHOWN, DETAIL TO BE SIMILAR FOR OTHER ANGLES .



1 TYP. EXTERIOR STAIR PLAN MORE THAN 600mm  
D1402 Scale: 1 : 10

3 RAILING ELBOW CONNECTION DETAIL TYP.  
D1402 Scale: 1 : 2



2 TYP. EXTERIOR STAIR ELEVATION MORE THAN 600mm  
D1402 Scale: 1 : 10

4 TYP. EXTERIOR STAIR ELEVATION LESS THAN 600  
D1402 Scale: 1 : 10

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PROJECT MGR:  
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CHECKED BY:  
**L. BANDIERA**  
APPROVED BY:  
**E. FENUTA**

SHEET TITLE  
**STAIR DETAILS - 02**

SHEET NUMBER  
**GAL-D1402**  
ISSUE  
**H**



- NOTES:
- INTERIOR GUARDS AND HANDRAILS TO BE STEEL WITH POWDER COATED FINISH UNLESS NOTED OTHERWISE
  - EXTERIOR GUARDS AND HANDRAILS TO BE GALVANIZED STEEL WITH POWDER COATED FINISH UNLESS NOTED OTHERWISE
  - FOR ALL TACTILE INDICATOR, USE TA-1A - YELLOW COLOUR UNLESS OTHERWISE NOTED
  - FOR ALL TEXTURE AND CONTRAST WARNING STRIP INTERIOR APPLICATION, USE TA-10 -YELLOW COLOUR UNLESS OTHERWISE NOTED
  - FOR ALL TEXTURE AND CONTRAST WARNING STRIP EXTERIOR APPLICATION, USE TA-11, EXCEPT CAST IN PLACE EXTERIOR CONCRETE APPLICATION USE TA-12

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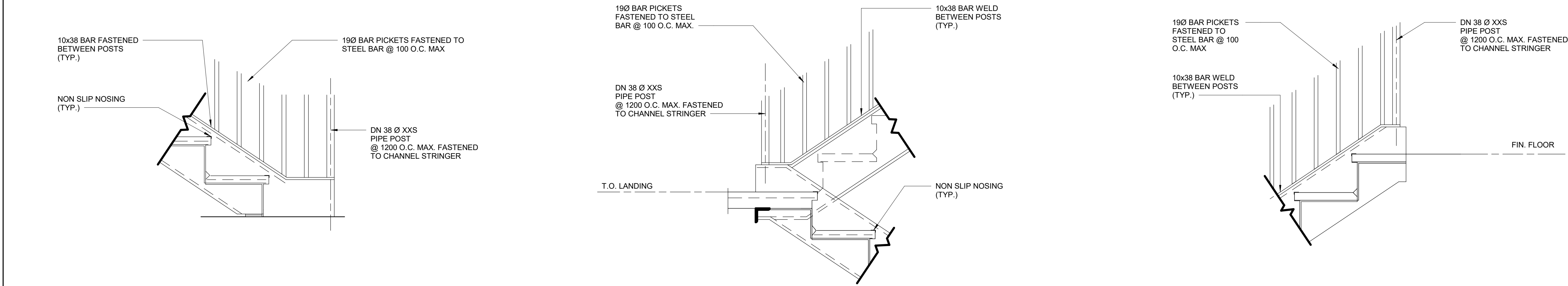


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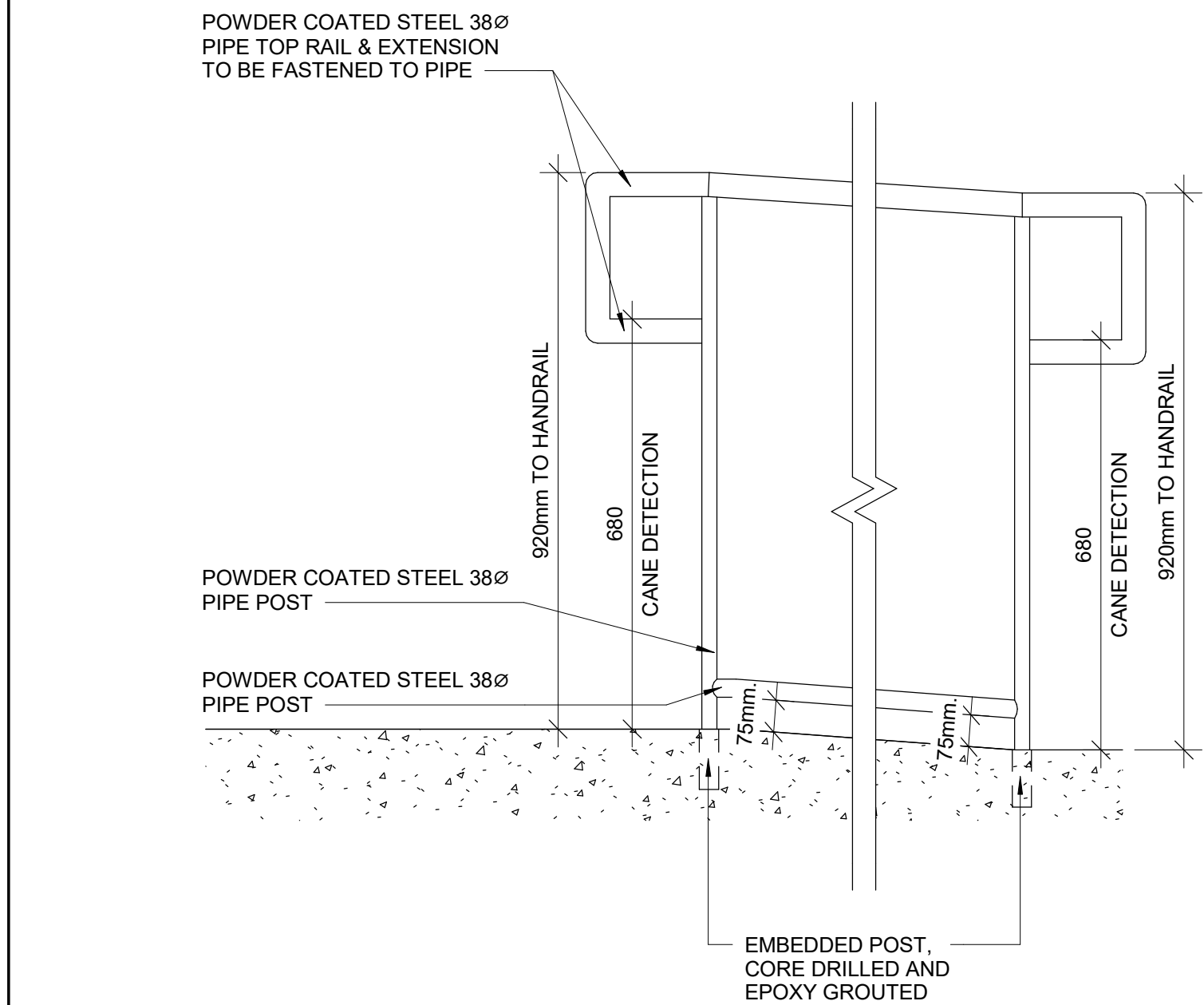
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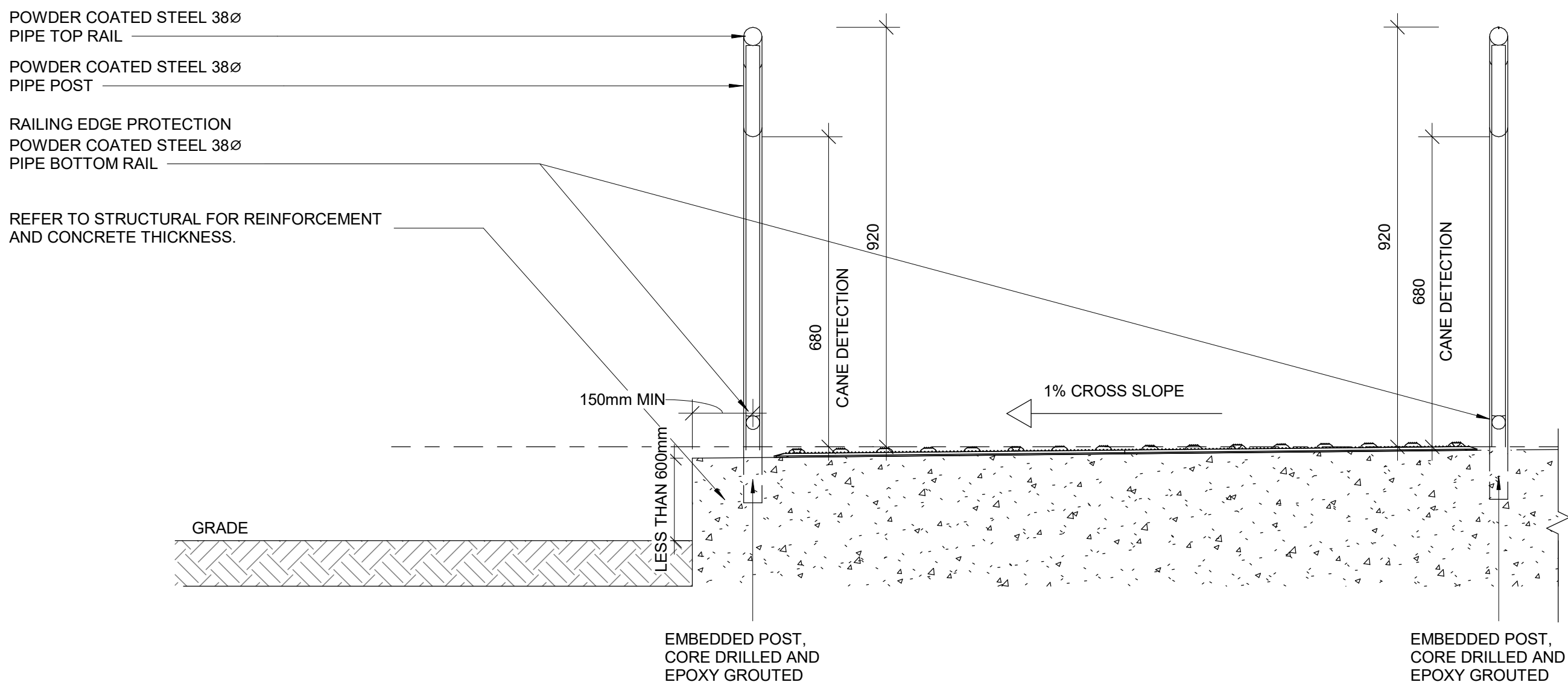
ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
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F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT	2024-06-14
H	ISSUED FOR TENDER	2025-09-08



1 TYP. GUARDRAIL CONNECTION DETAIL  
D1403 Scale: 1 : 10



2 ELEVATION OF GUARDRAIL FOR RAMP AT GRADE DIFFERENCE LESS THAN 600 MM  
D1403 Scale: 1 : 10



3 SECTION OF GUARDRAIL FOR RAMP AT GRADE DIFFERENCE LESS THAN 600 MM  
D1403 Scale: 1 : 10

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
**A. BOYNARIAN**

CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**E. FENUTA**

SHEET TITLE  
**GUARD RAIL & RAMP  
DETAILS**

SHEET NUMBER

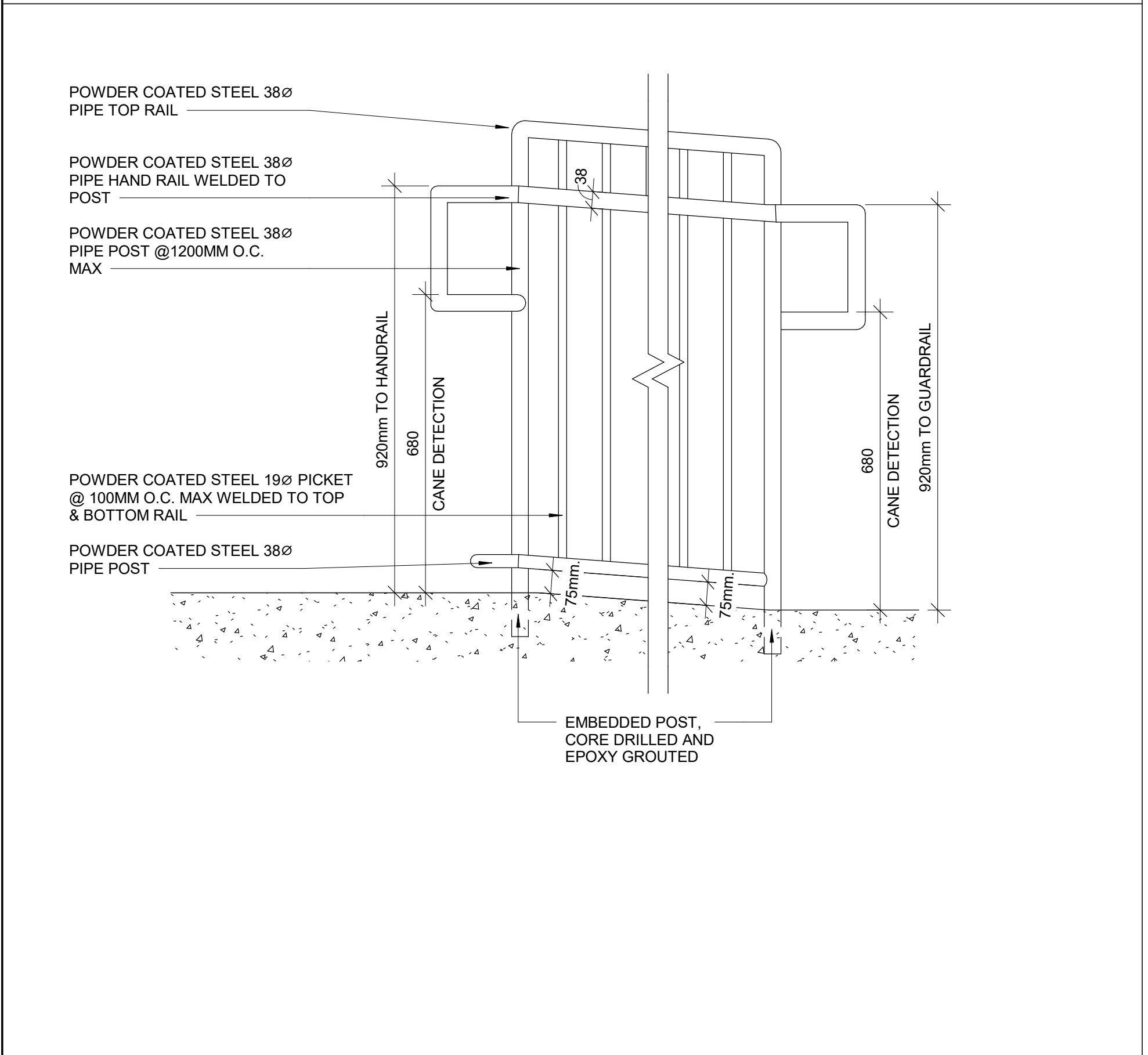
**GAL-D1403**

ISSUE

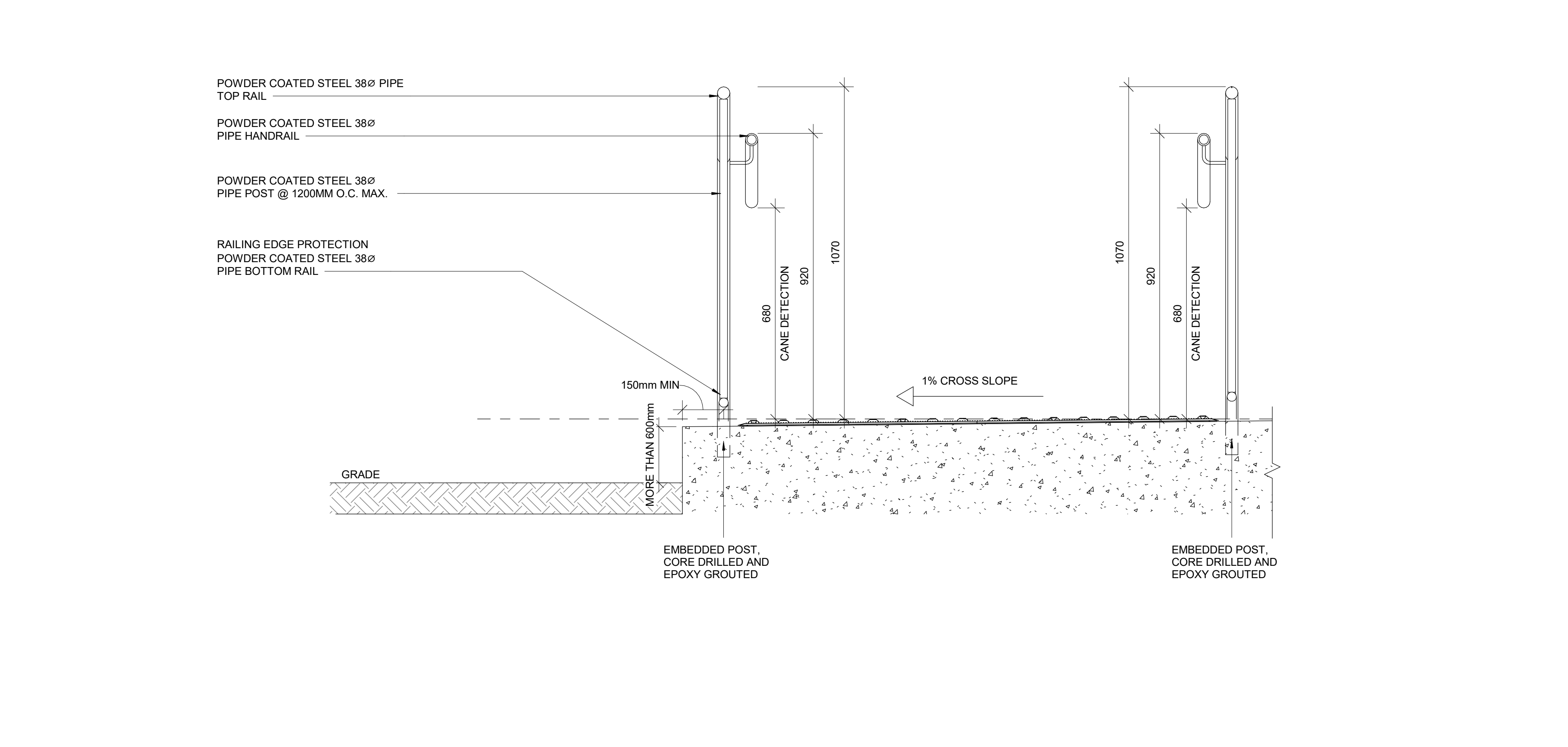
**H**



- NOTES:
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1 ELEVATION OF GUARDRAIL FOR RAMP AT GRADE DIFFERENCE MORE THAN 600 MM  
D1404 Scale: 1 : 10



2 SECTION OF GUARDRAIL FOR RAMP AT GRADE DIFFERENCE MORE THAN 600 MM  
D1404 Scale: 1 : 10

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F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT	2024-06-14
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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

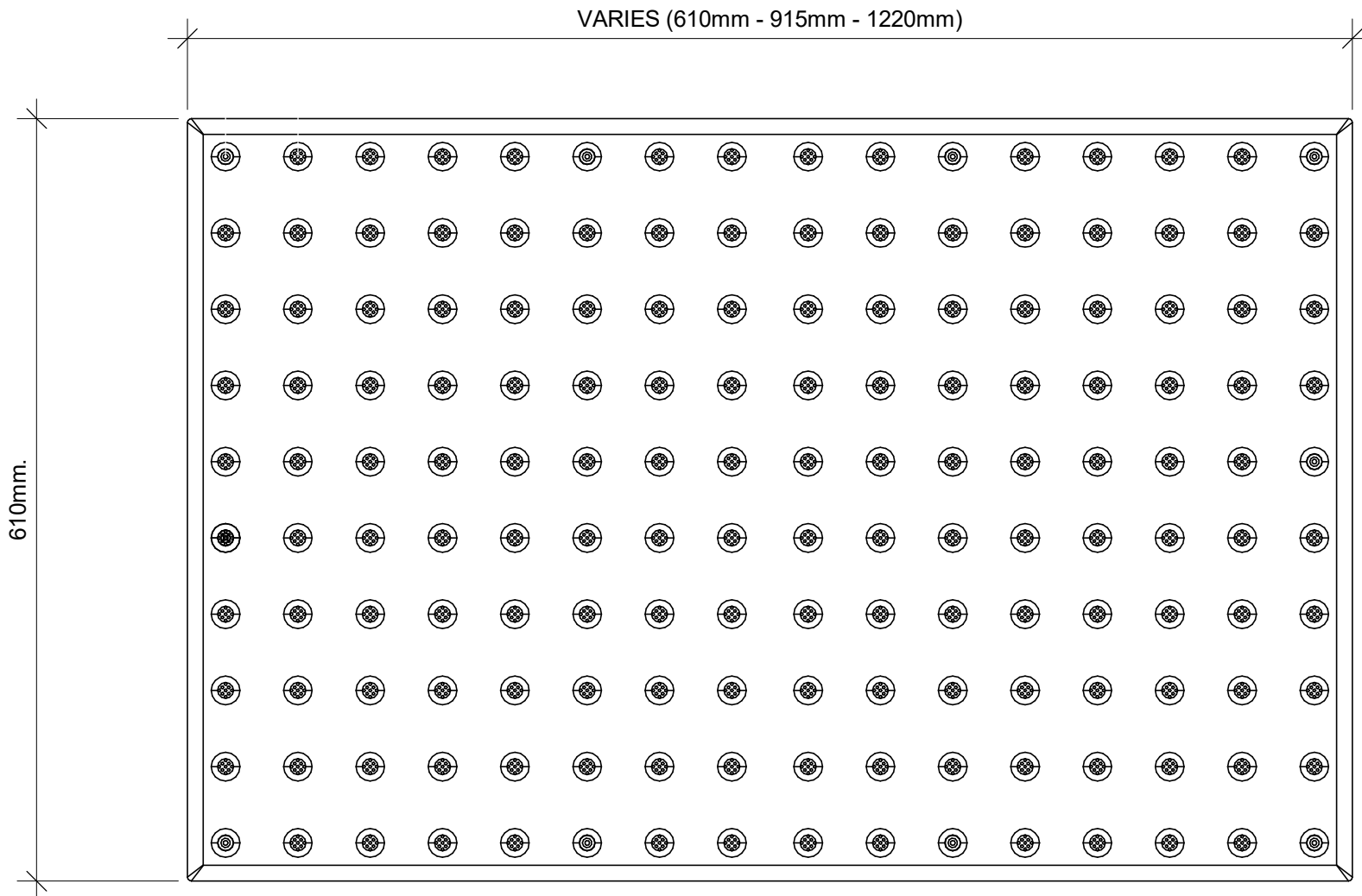
DRAWN BY: <b>A. BOYNARIAN</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

SHEET TITLE  
**RAMP DETAILS**

SHEET NUMBER <b>GAL-D1404</b>	ISSUE <b>H</b>
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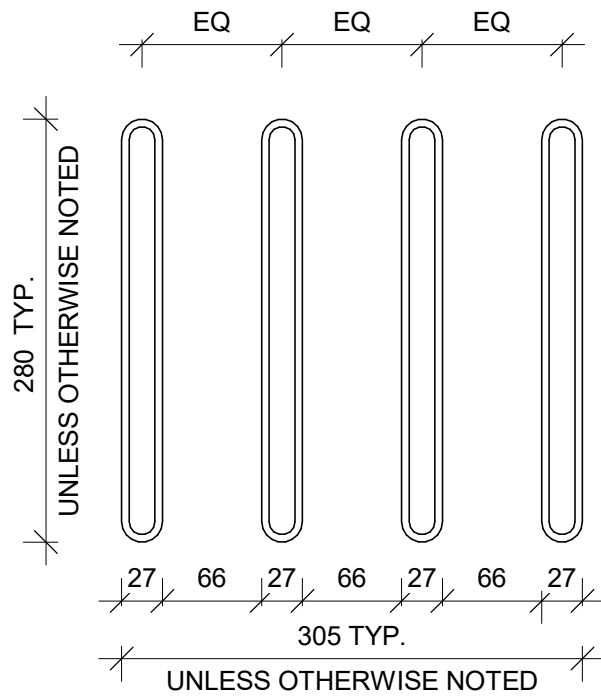


TA - 1a  
EXTERIOR AND INTERIOR APPLICATION



1 TACTILE ATTENTION INDICATOR  
D1405 Scale: 1 : 5

TA-8  
INTERIOR APPLICATION

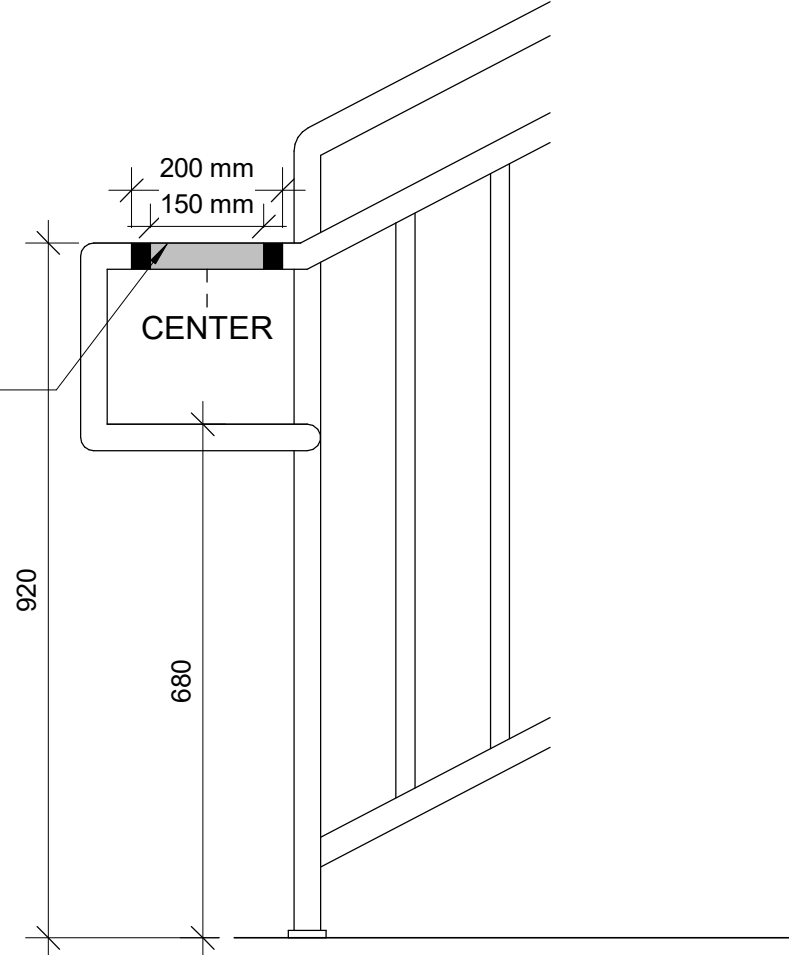


2 GUIDANCE BARS PLAN  
D1405 Scale: 1 : 5

RESERVED

150mm LONG YELLOW COLOUR  
WAYFINDING SIGN WITH BRAILLE AND  
25mm WIDE RED COLOUR ON EITHER  
SIDE OF THE SIGN

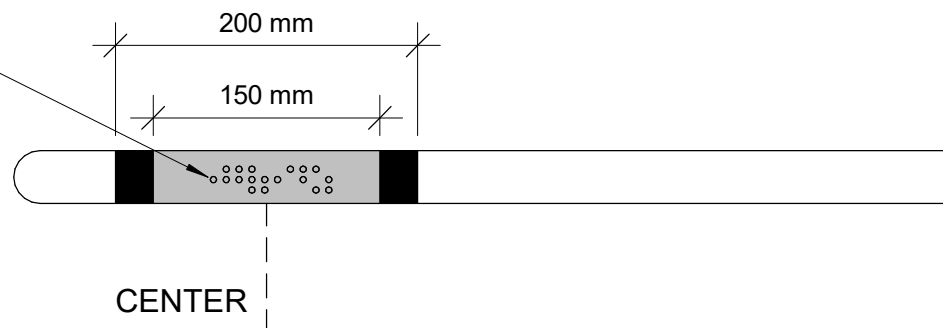
BRAILLE INDICATES FLOOR  
LEVEL AND NUMBER ON TOP  
OF RAILING. SEE 10/D1405



8 HANDRAIL WARNING STRIP  
D1405 Scale: 1 : 10

150mm LONG YELLOW COLOUR  
WAYFINDING SIGN WITH BRAILLE AND  
25mm WIDE RED COLOUR ON EITHER  
SIDE OF THE SIGN

BRAILLE INDICATES FLOOR LEVEL  
AND NUMBER ON TOP OF RAILING.



10 HANDRAIL HAZARD STRIP PLAN  
D1405 Scale: 1 : 5

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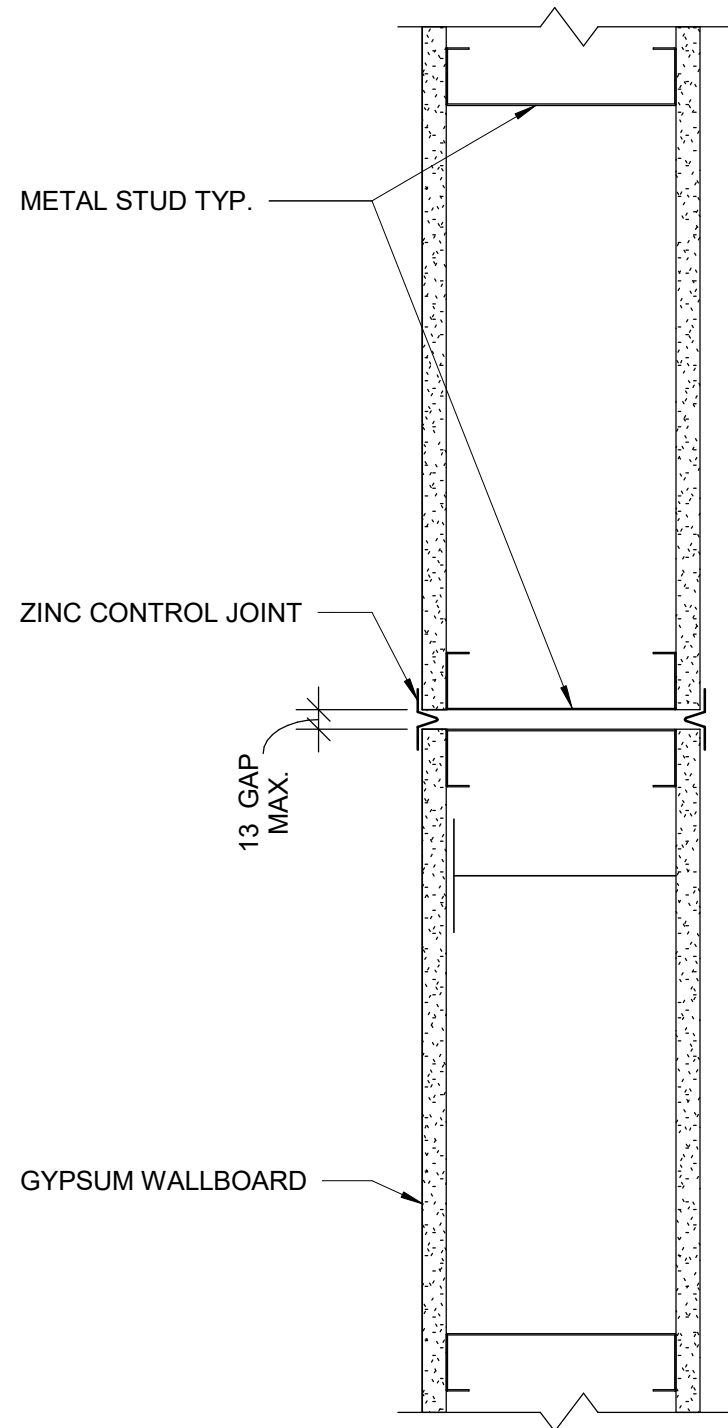
DRAWN BY: <b>A. BOYNARIAN</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

SHEET TITLE  
**TACTILE DETAILS**

SHEET NUMBER  
**GAL-D1405**

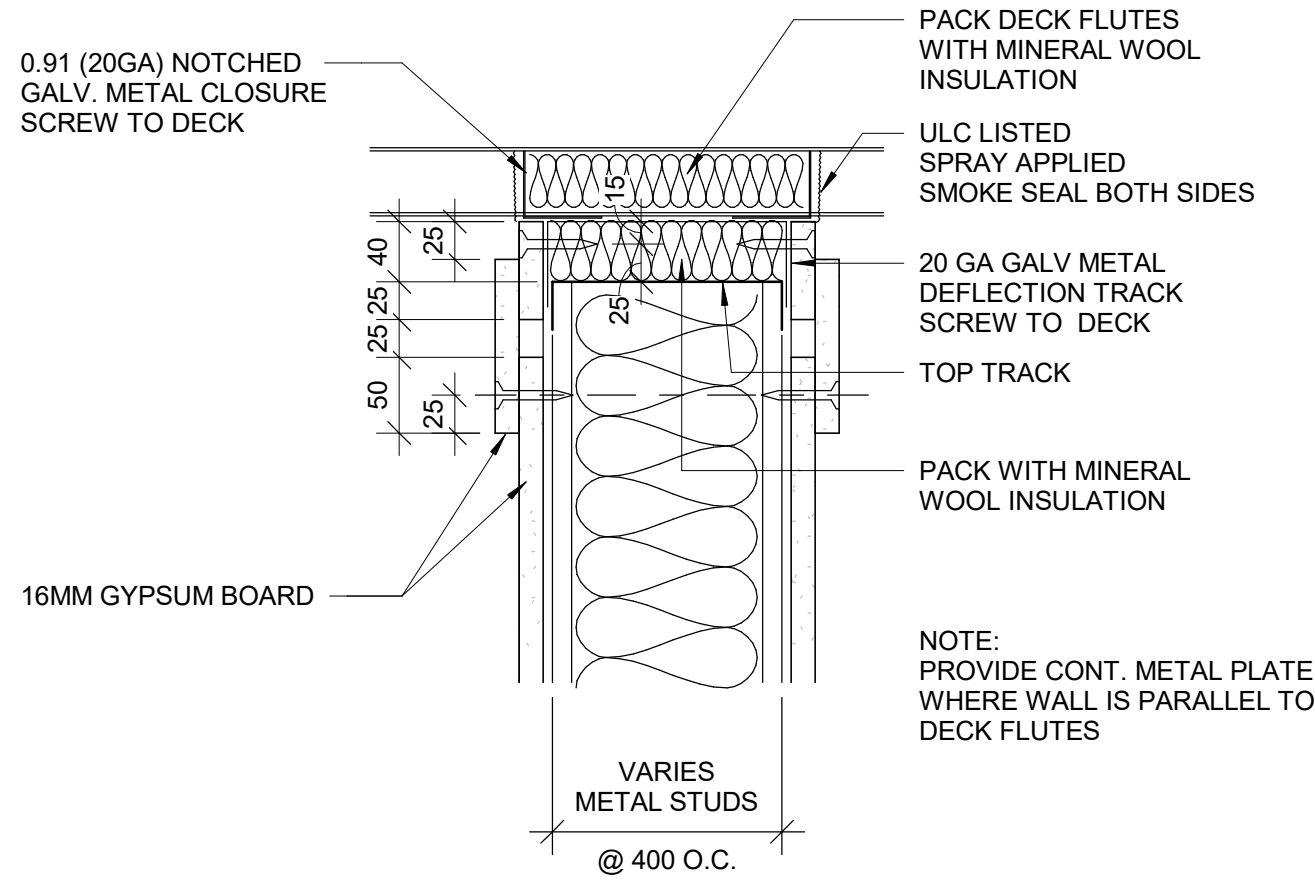
ISSUE  
**H**



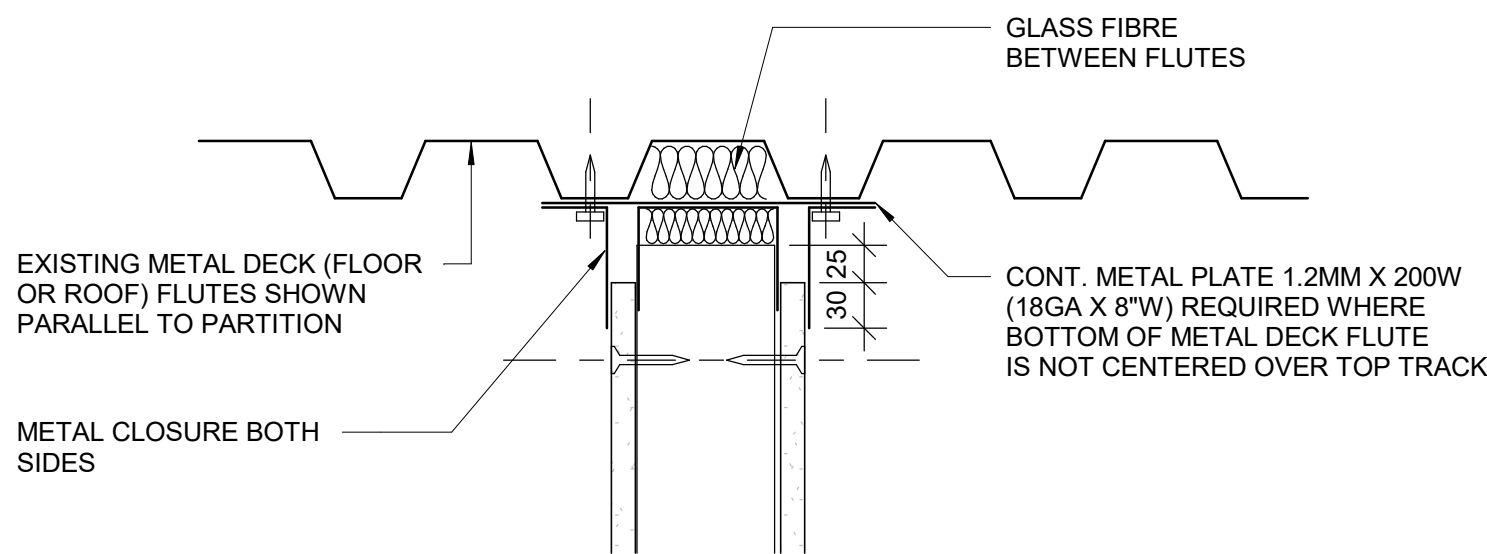


1 CONTROL JOINT PLAN DETAIL - DRYWALL  
D1501 Scale: 1 : 5

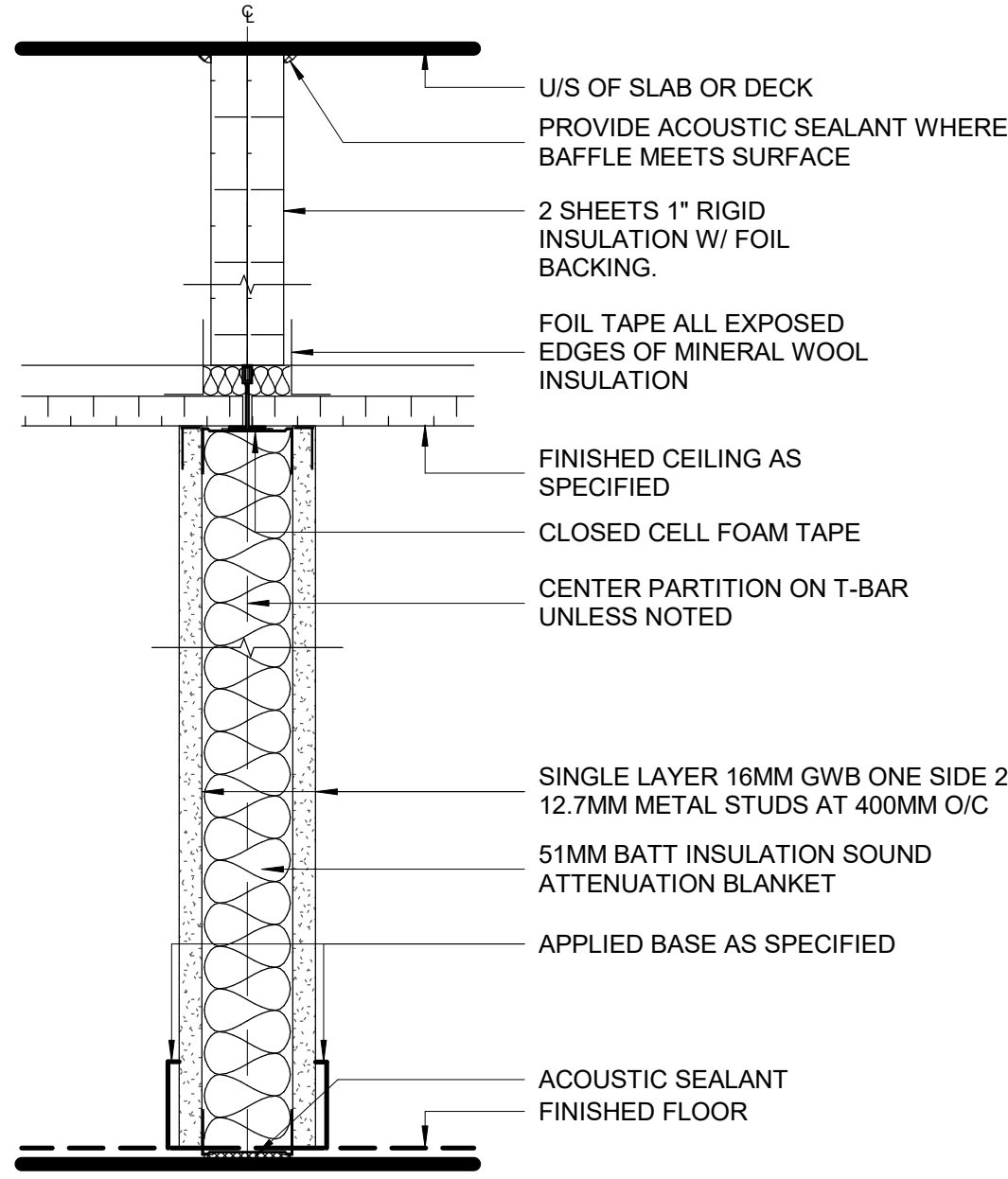
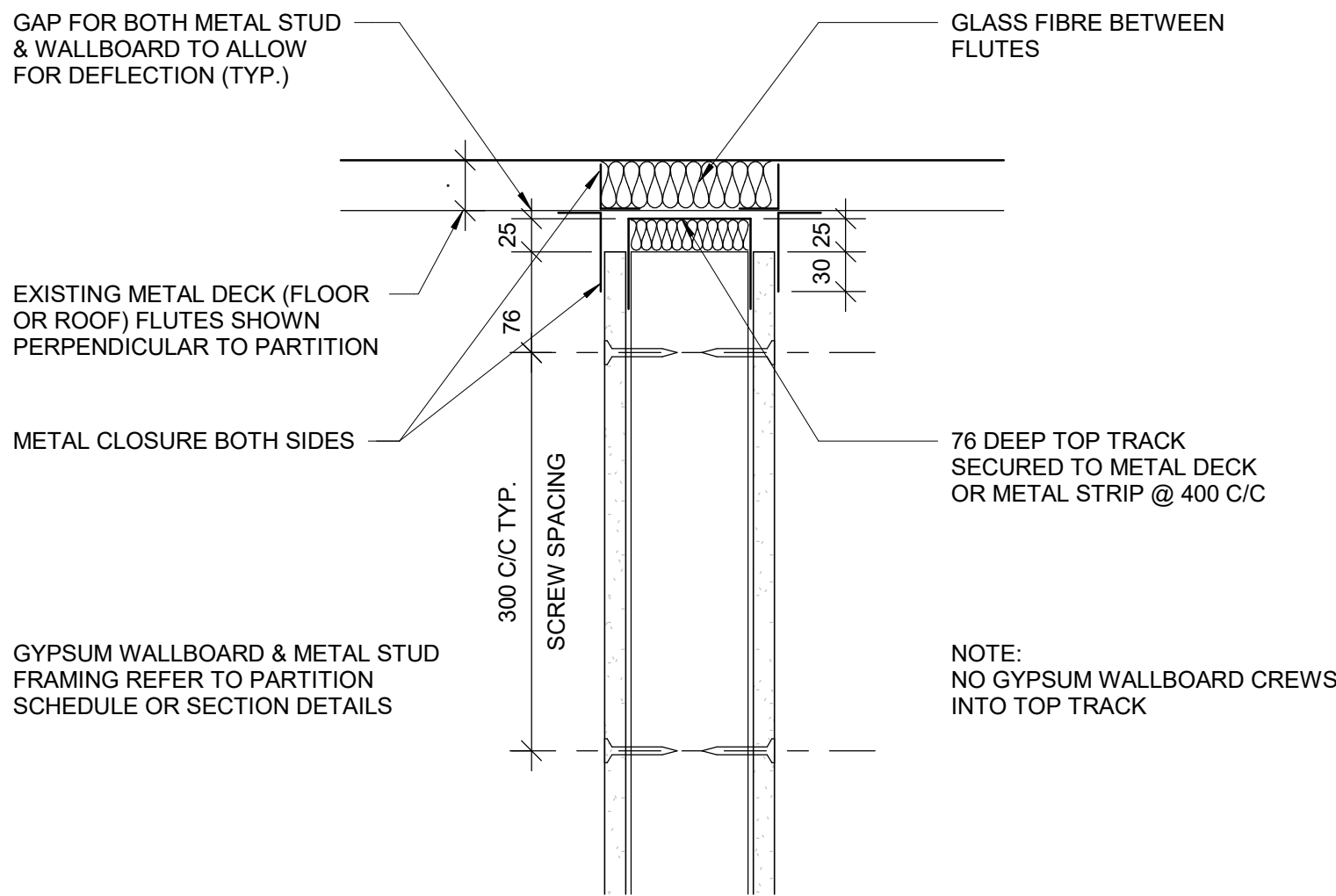
RESERVED



3 HEAD DRYWALL FIRE RATED PARTITION  
D1501 Scale: 1 : 5



4 HEAD FULL HEIGHT DRYWALL PARTITION - NON RATED  
D1501 Scale: 1 : 5



NOTE: ANCHOR TOP TRACK TO T-BAR WITH CLIPS OR FASTENERS DO NOT SCREW TO MAIN T's

5 DRYWALL - ACOUSTICAL TREATMENT ABOVE CEILING  
D1501 Scale: 1 : 5

ISSUES		
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F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT	2024-06-14
H	ISSUED FOR TENDER	2025-09-08

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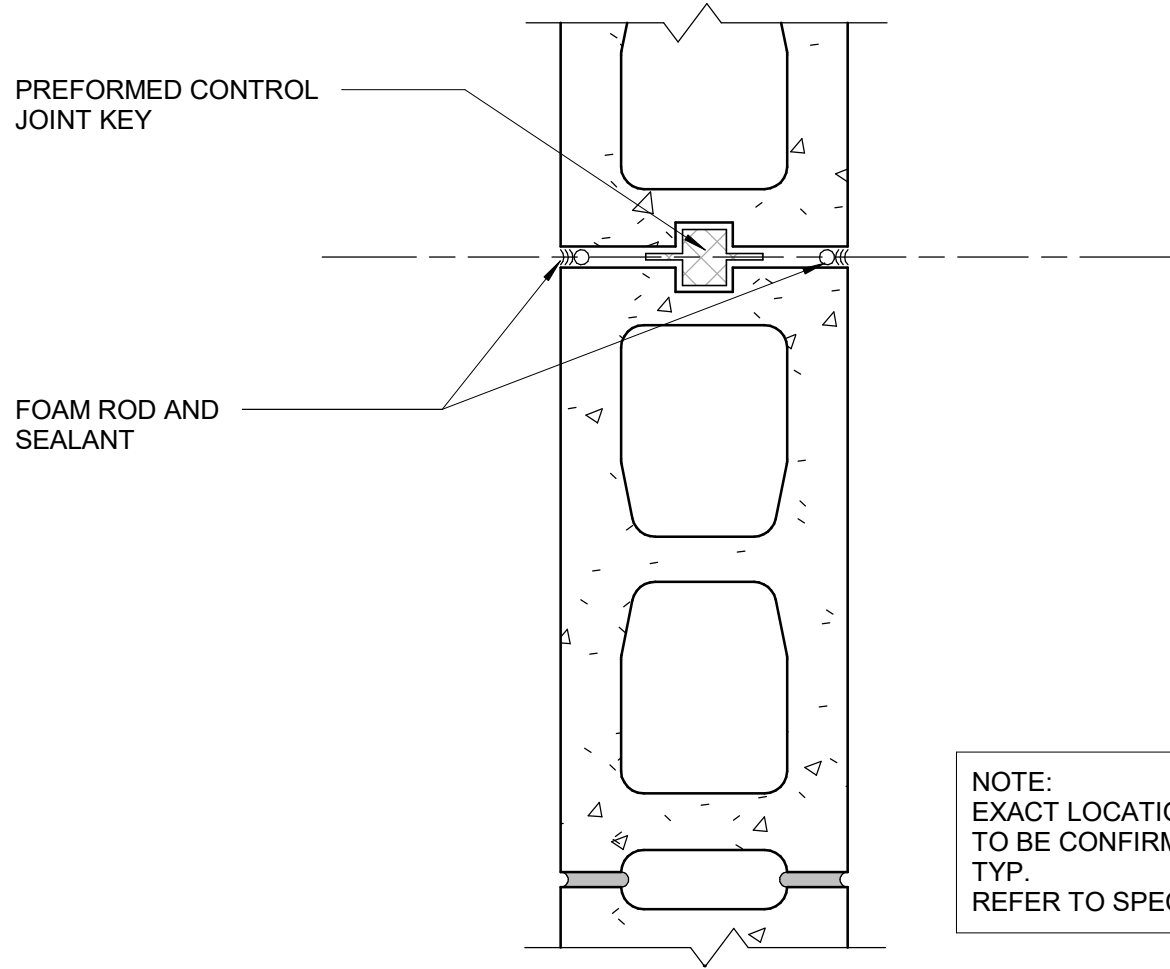
PROJECT NO:  
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DRAWN BY: <b>A. BOYNARIAN</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

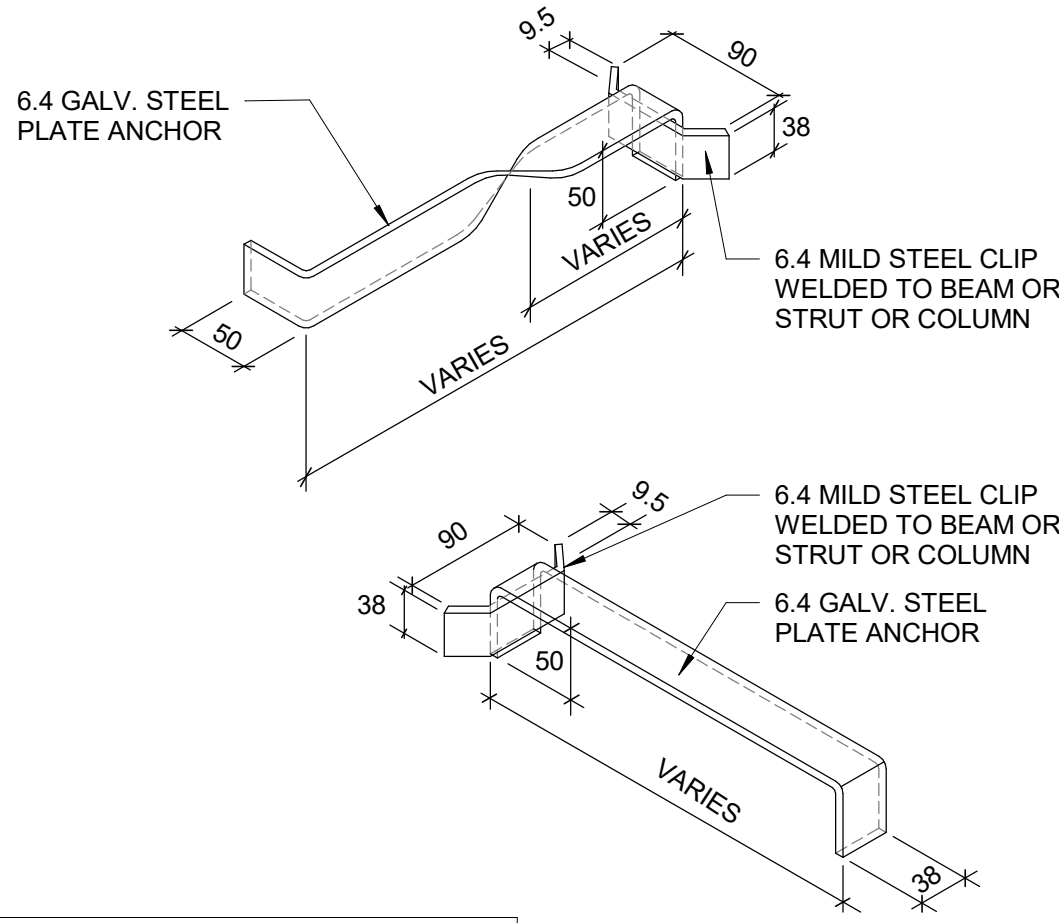
SHEET TITLE  
**MISCELLANEOUS  
DETAILS - 01**

SHEET NUMBER  
**GAL-D1501**

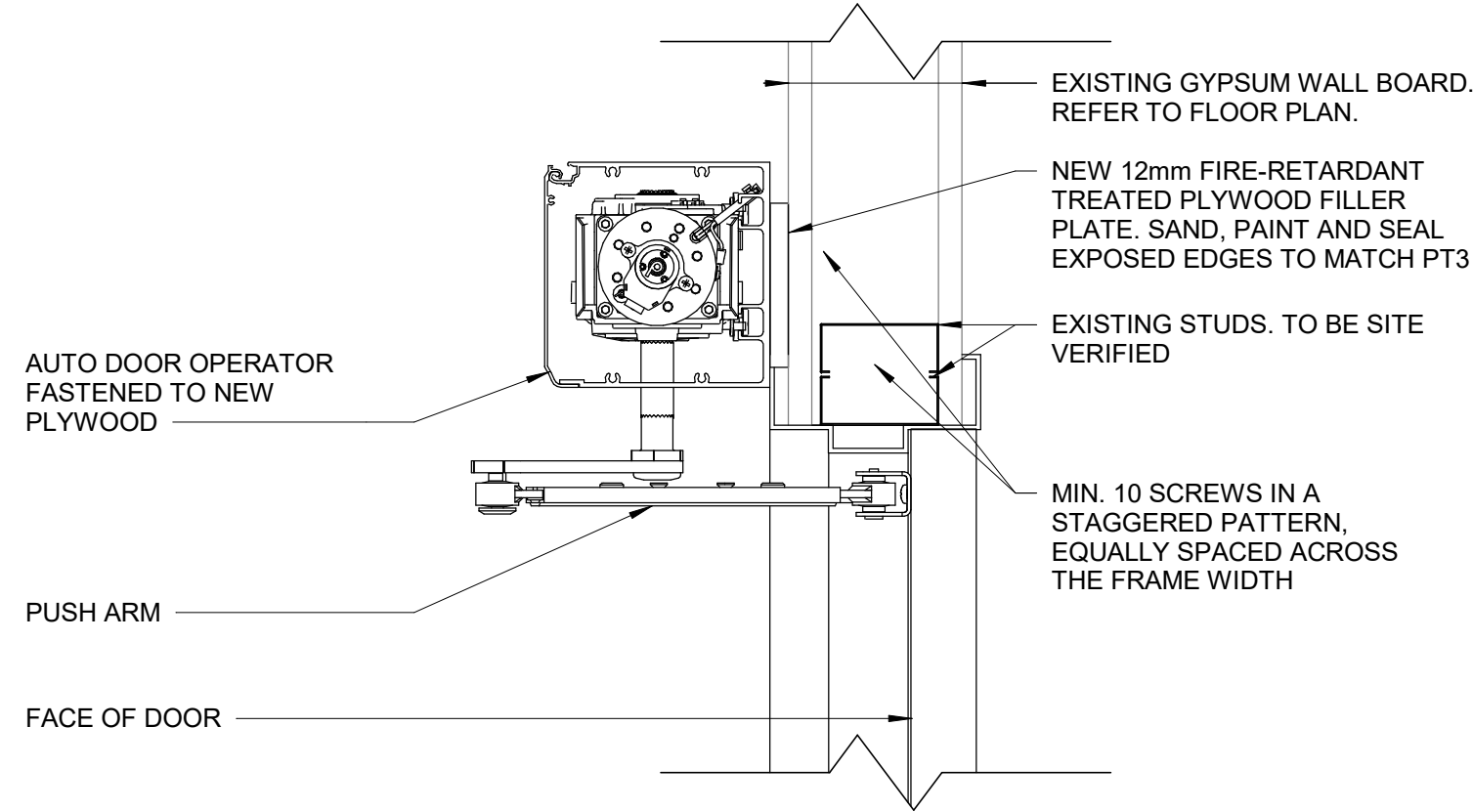
ISSUE  
**H**



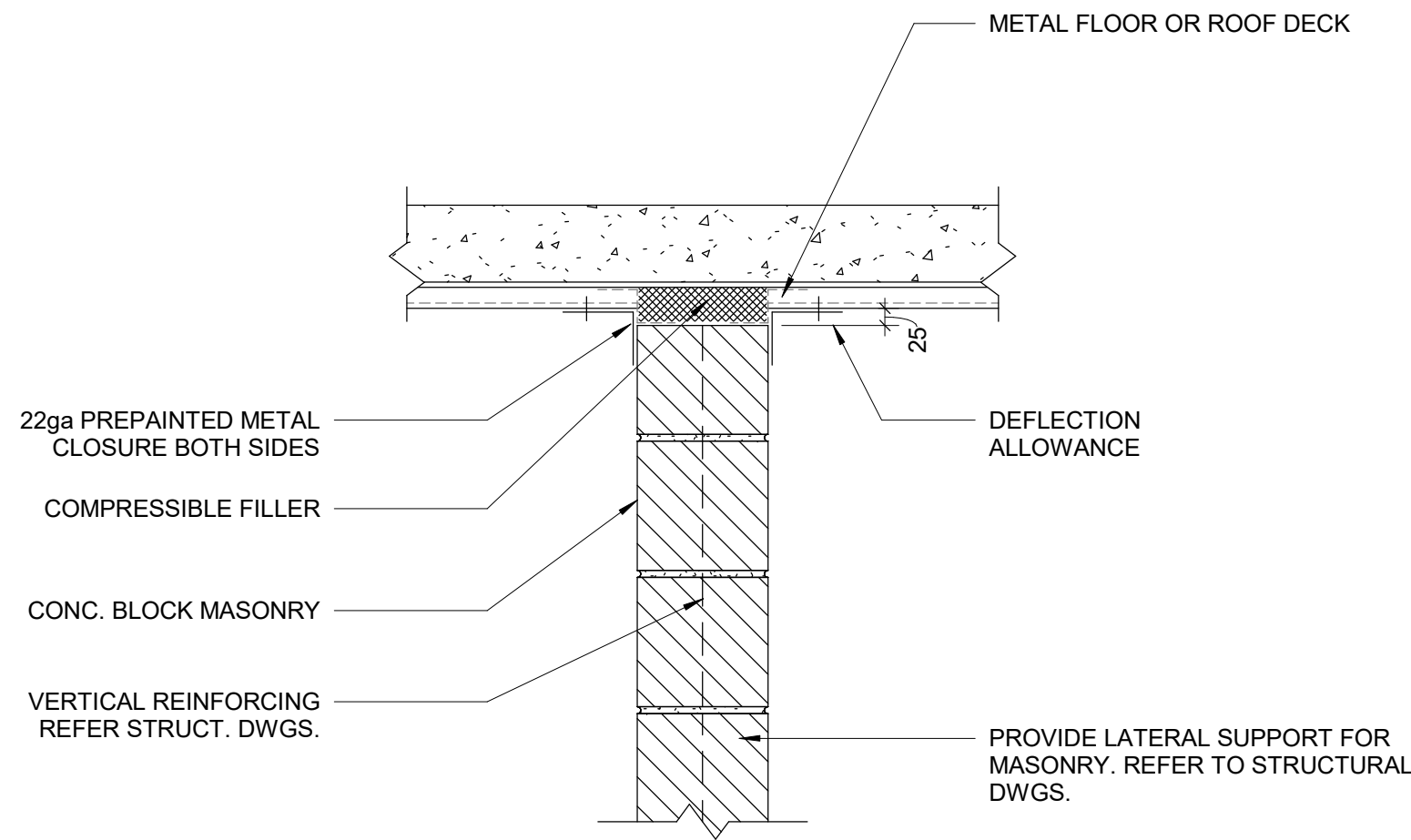
1 CONC BLOCK CONTROL JOINT DETAIL  
D1502 Scale: 1 : 5



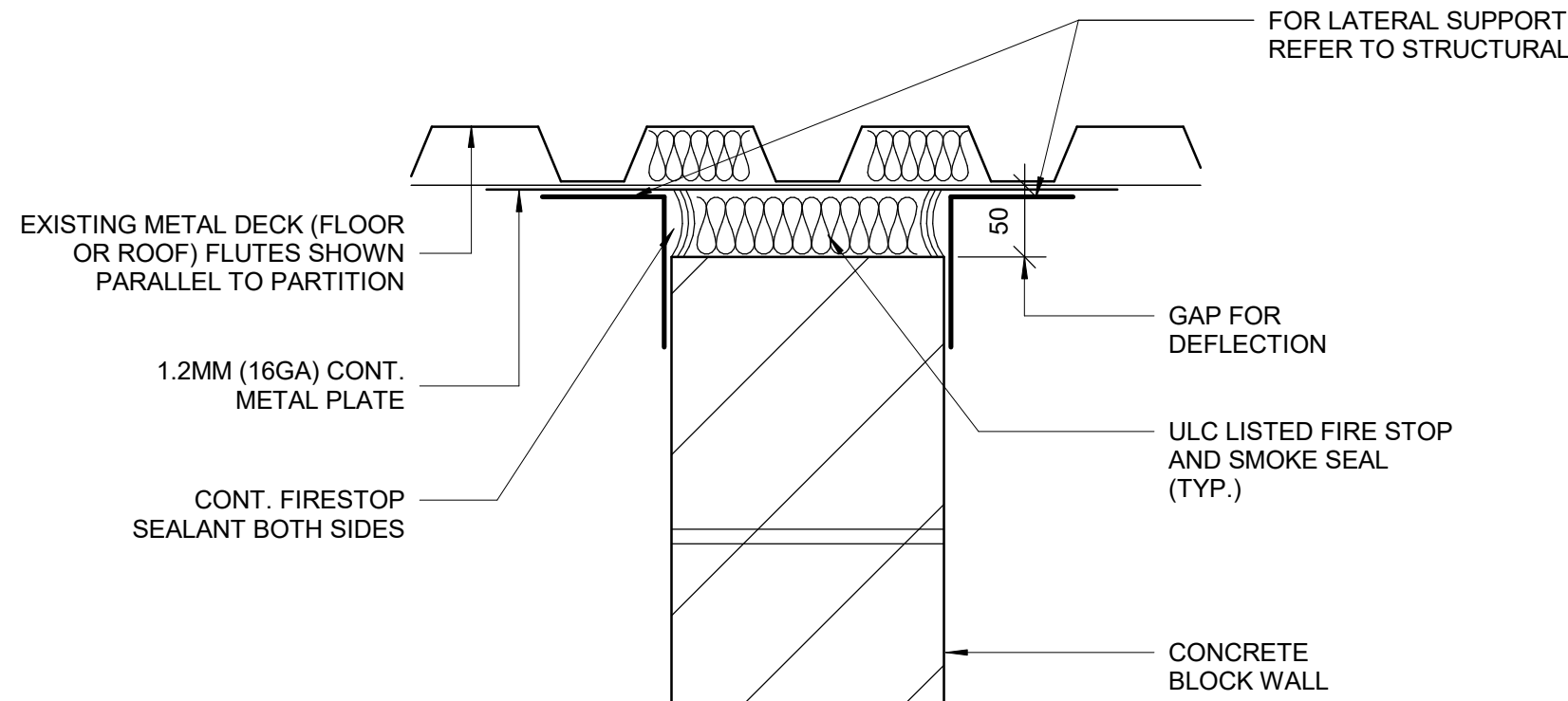
4 MASONRY ANCHOR DETAIL  
D1502 Scale: 1 : 10



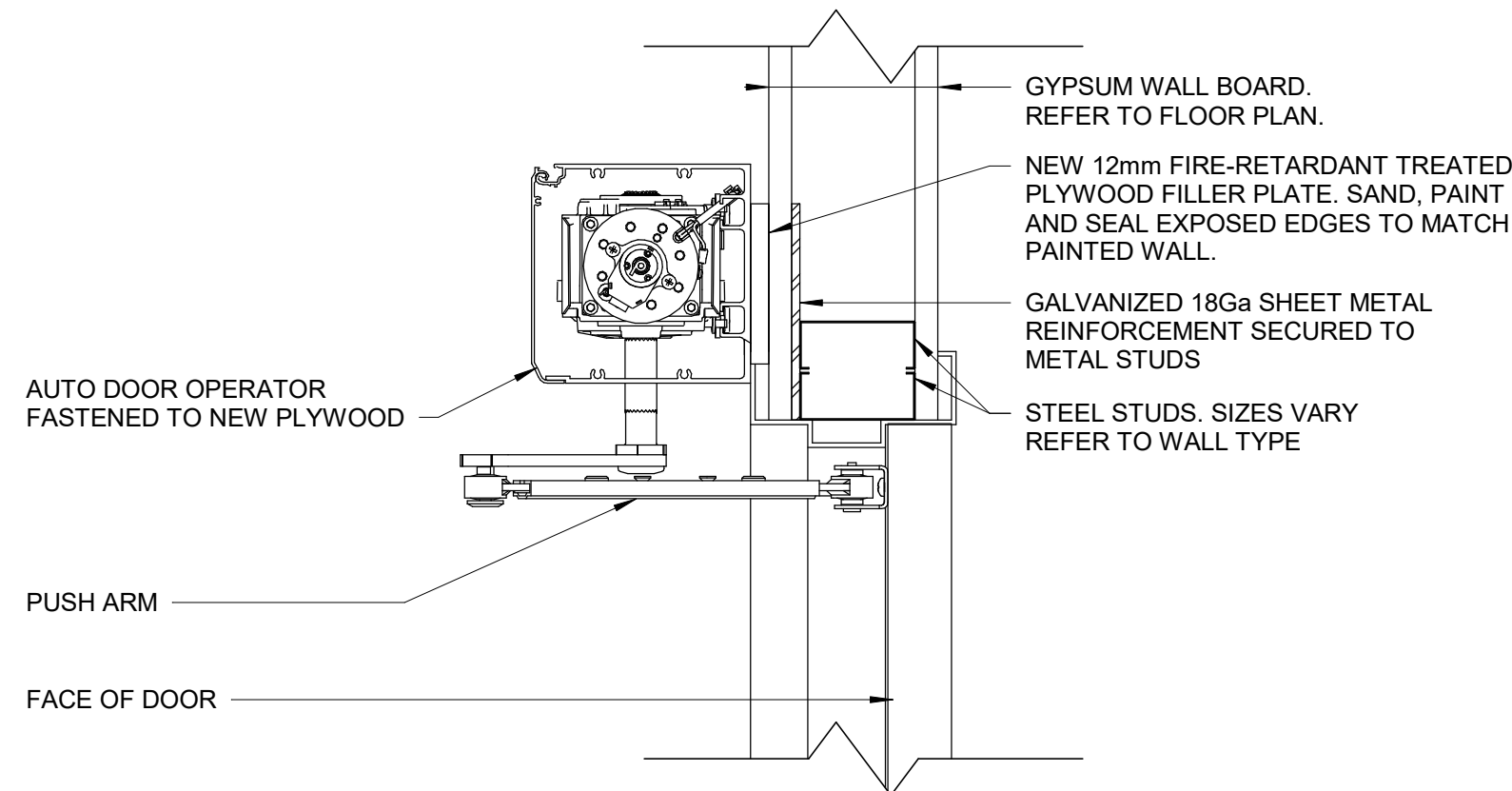
7 WALL REINFORCEMENT DETAIL FOR DOOR OPERATOR AT EXISTING GB PARTITION  
D1502 Scale: 1 : 5



2 CONCRETE BLOCK TO CONCRETE METAL DECK  
D1502 Scale: 1 : 10

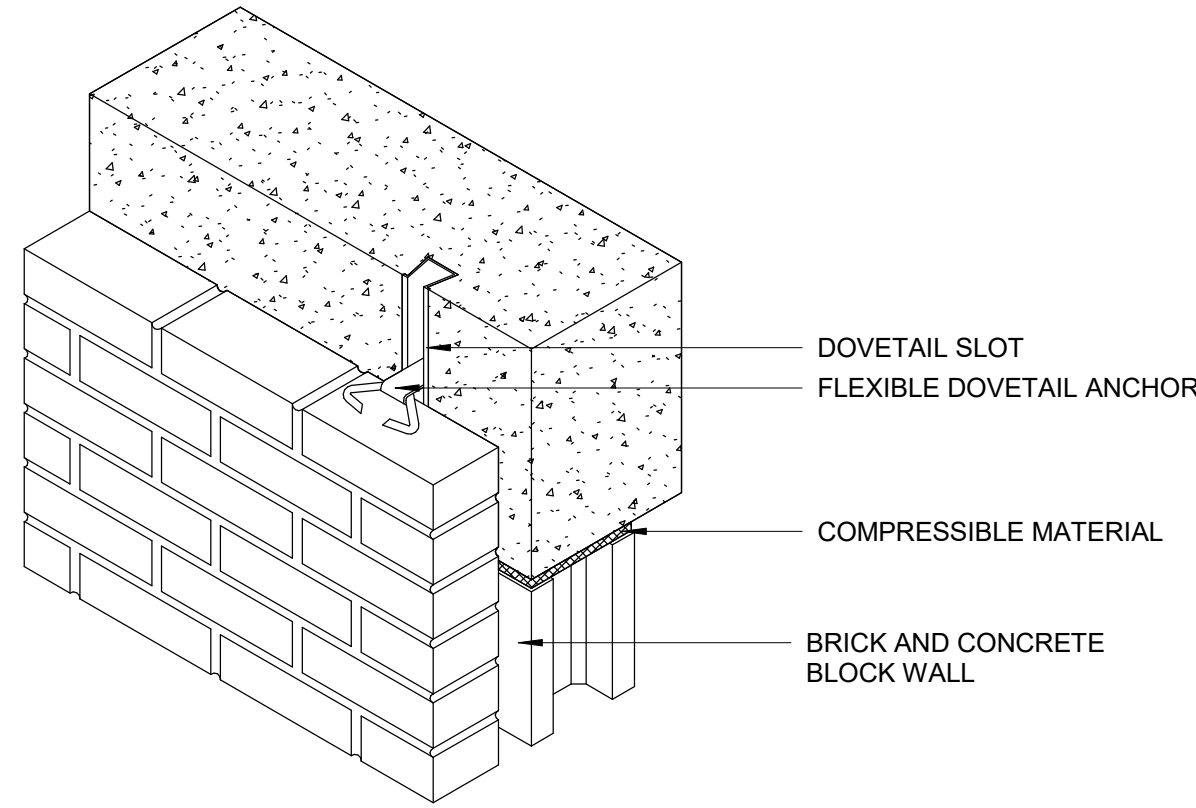


5 HEAD DRYWALL FIRE RATED MASONRY WALL  
D1502 Scale: 1 : 5



8 WALL REINFORCEMENT DETAIL FOR DOOR OPERATOR AT NEW GB PARTITION  
D1502 Scale: 1 : 5

RESERVED



6 MASONRY ANCHOR CONCRETE BEAM  
D1502 Scale: 1 : 10

ISSUES		
No.	DESCRIPTION	DATE
A.	50% SUBMISSION	2022-01-20
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PROJECT ADDRESS

PROJECT NO:  
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DRAWN BY: <b>A. BOYNARIAN</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

SHEET TITLE  
**MISCELLANEOUS  
DETAILS -02**

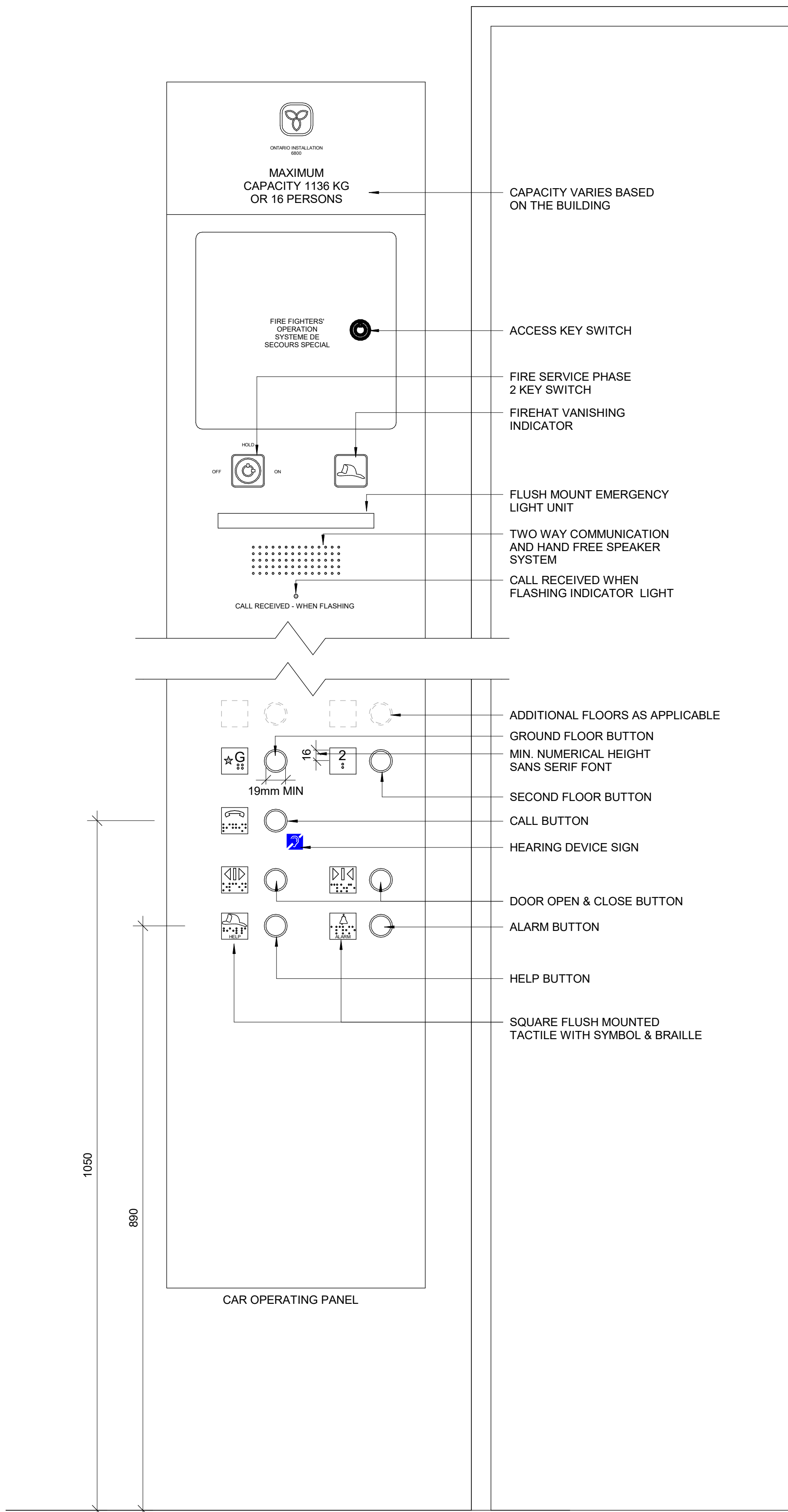
SHEET NUMBER  
**GAL-D1502**

ISSUE  
**H**

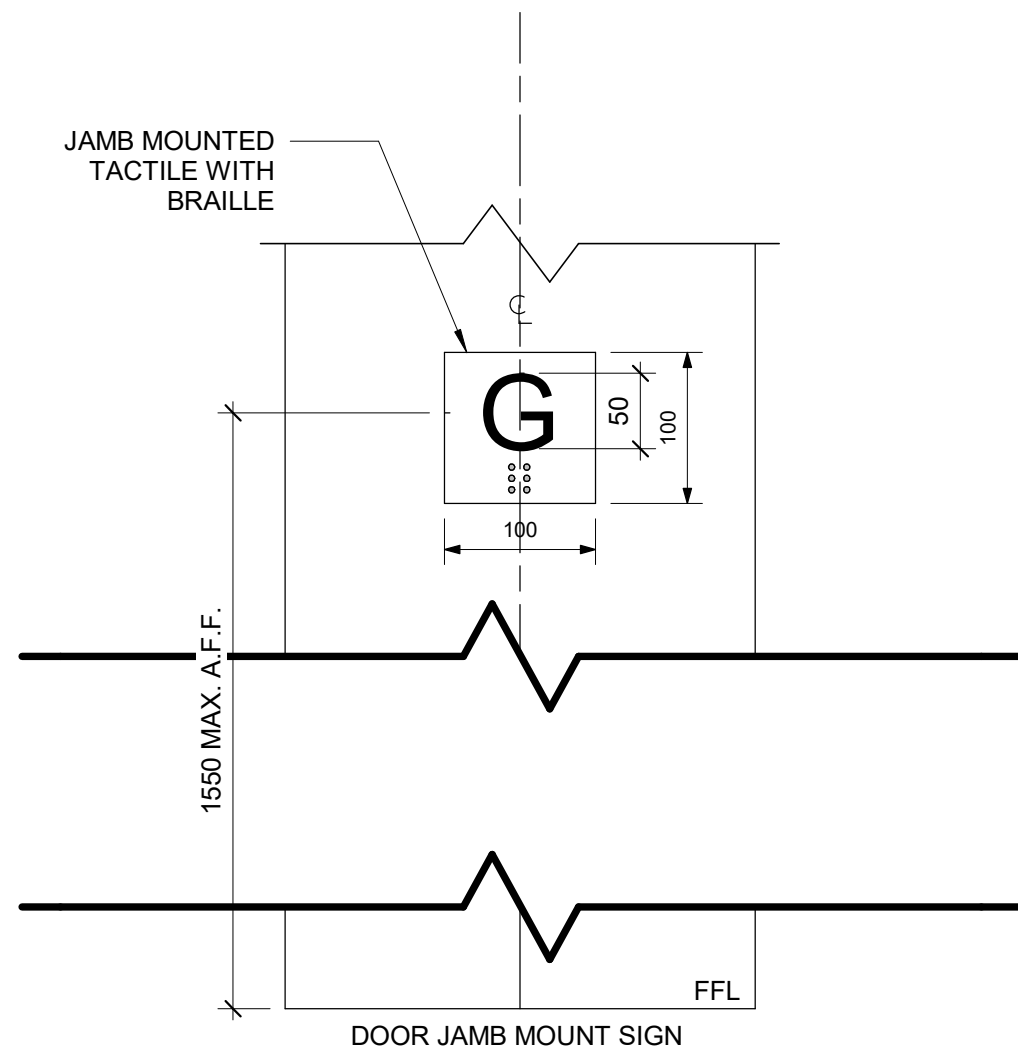


2025-09-09 4:49:58 PM

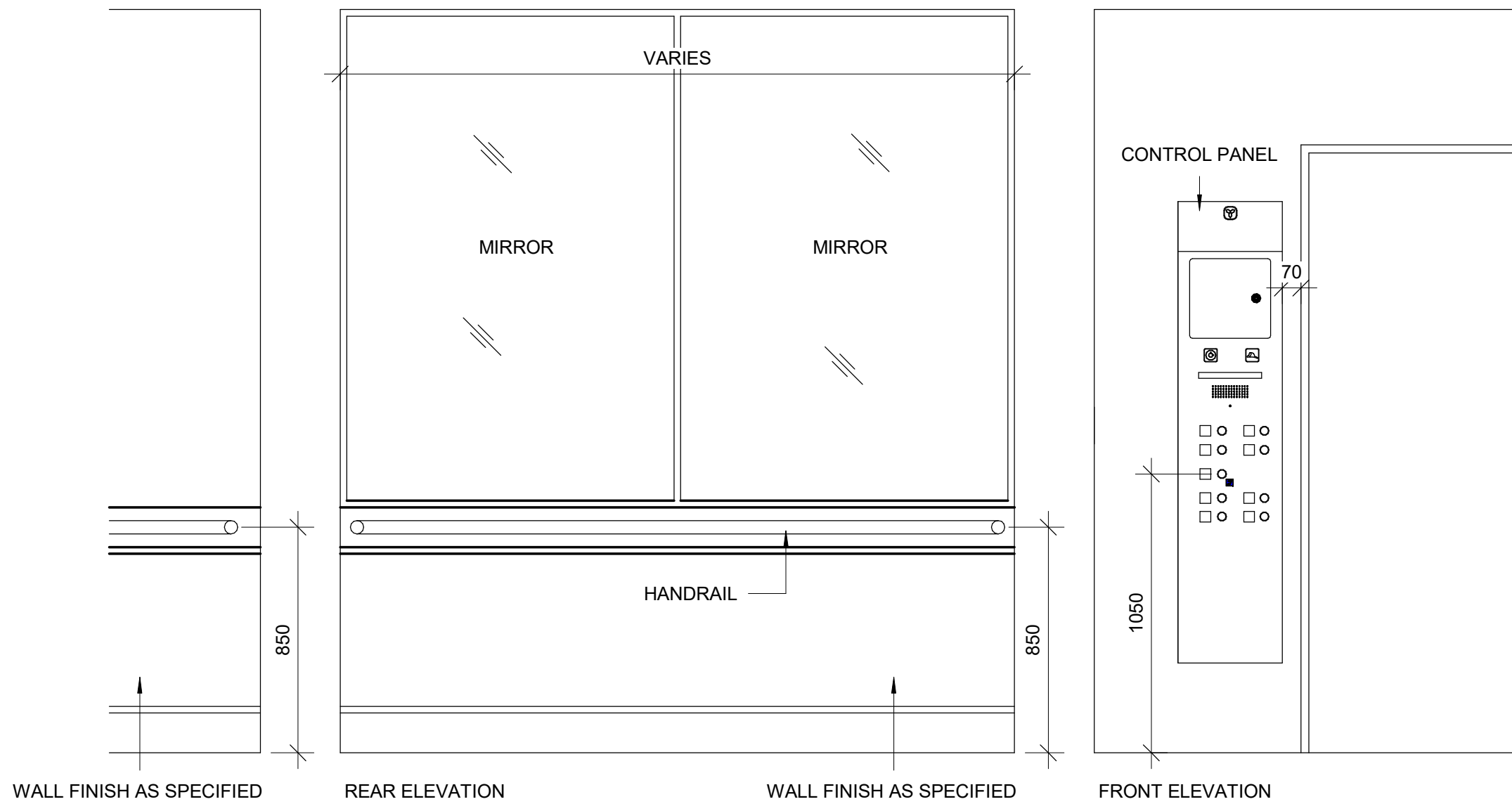
1 INTERIOR ELEVATOR CONTROLS  
D1602 Scale: 1 : 5



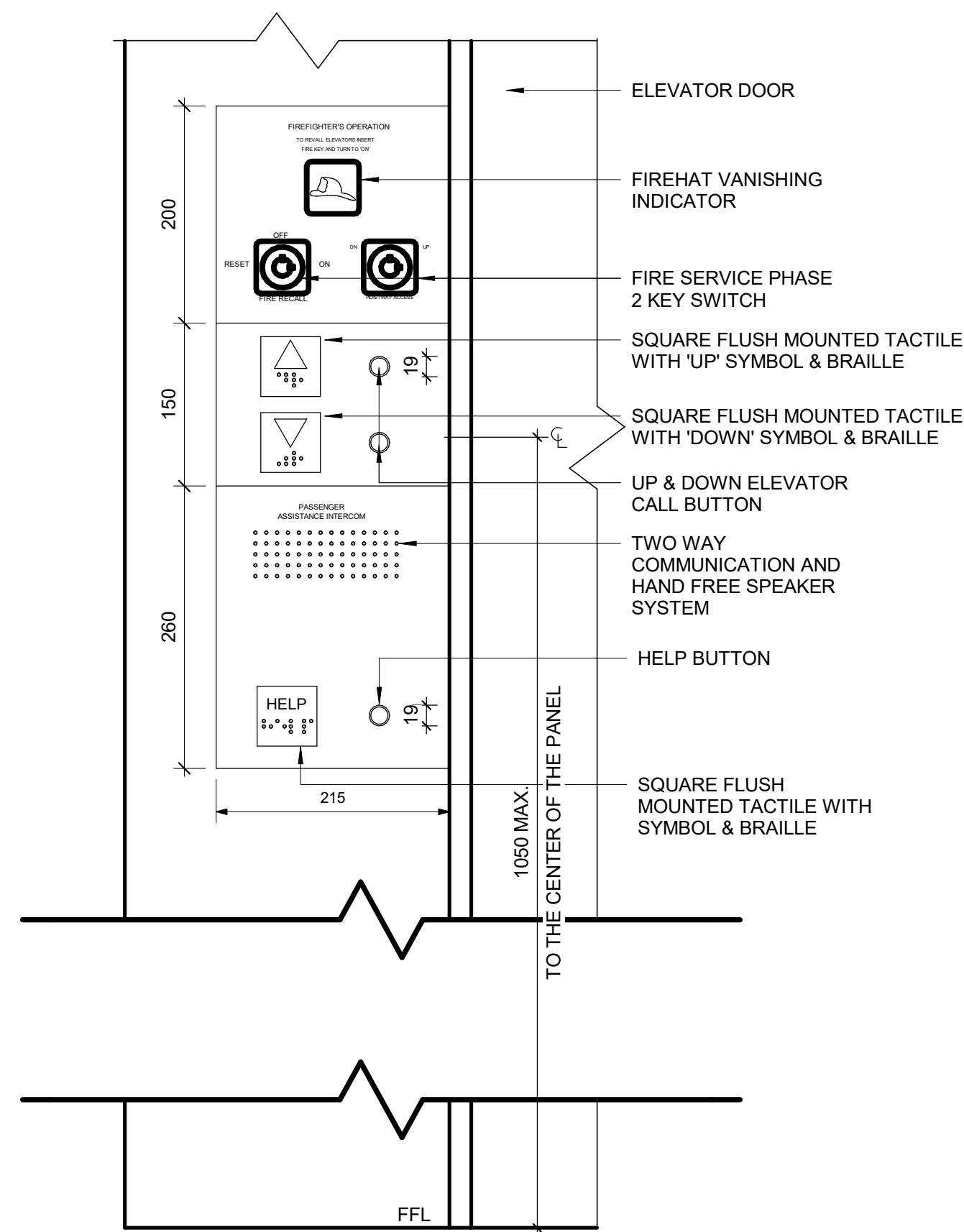
3 TACTILE FLOOR MARKER  
D1602 Scale: 1 : 5



2 ELEVATOR INTERIOR ELEVATIONS  
D1602 Scale: 1 : 20



4 ELEVATOR EXTERIOR PANEL ELEVATION  
D1602 Scale: 1 : 5



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F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT	2024-06-14
H	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
**CITY OF TORONTO  
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PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
**A. BOYNARIAN**

CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**E. FENUITA**

SHEET TITLE  
**ELEVATOR CONTROL &  
INTERIOR CABIN  
DETAILS**

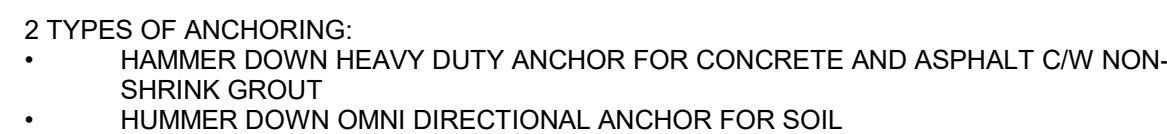
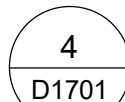
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**GAL-D1602**

ISSUE  
**H**

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10mm

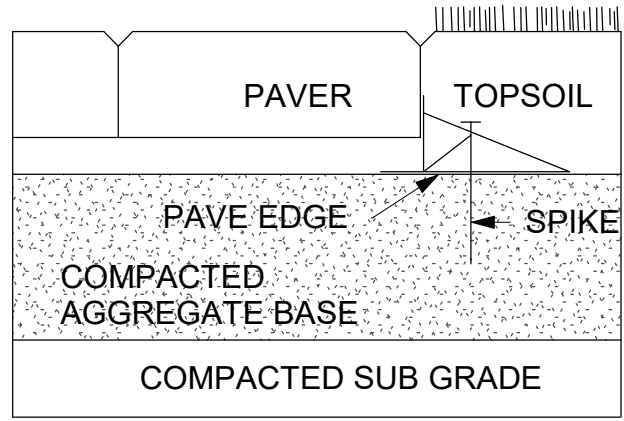
SCALE CHECK  
1 in



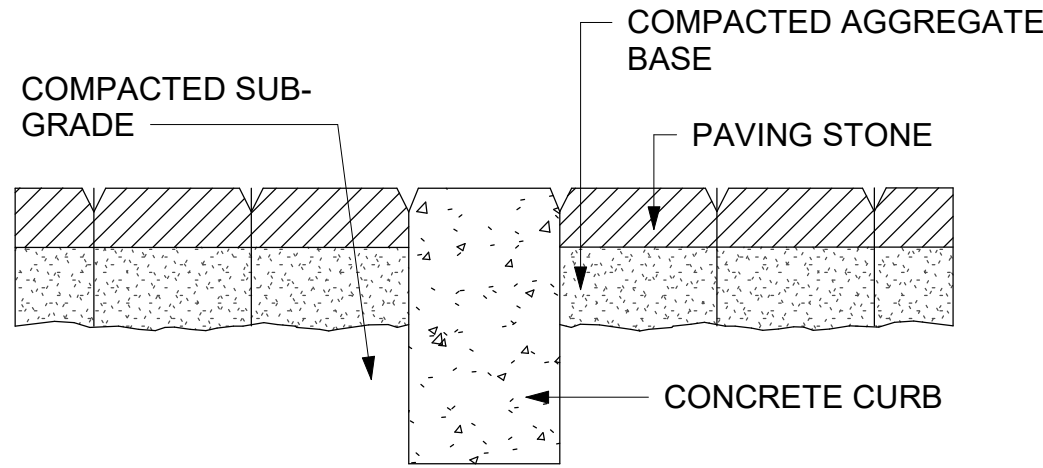
2  
D1701



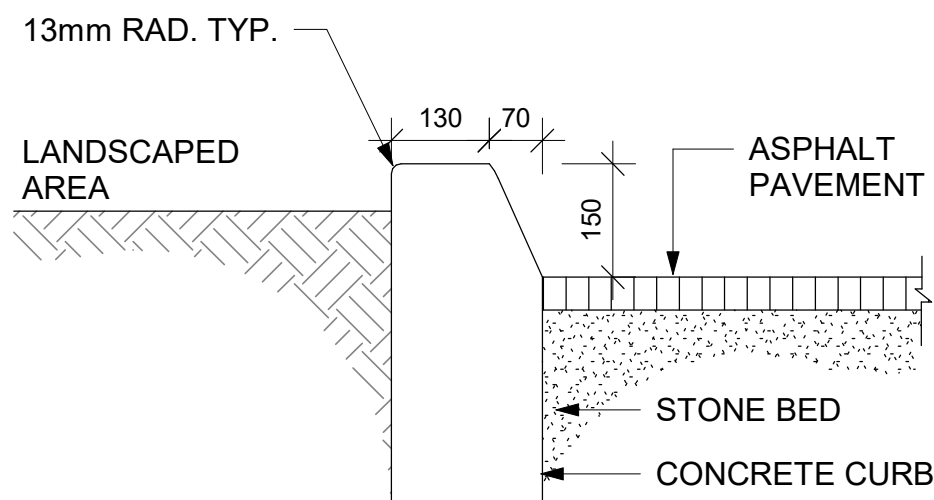




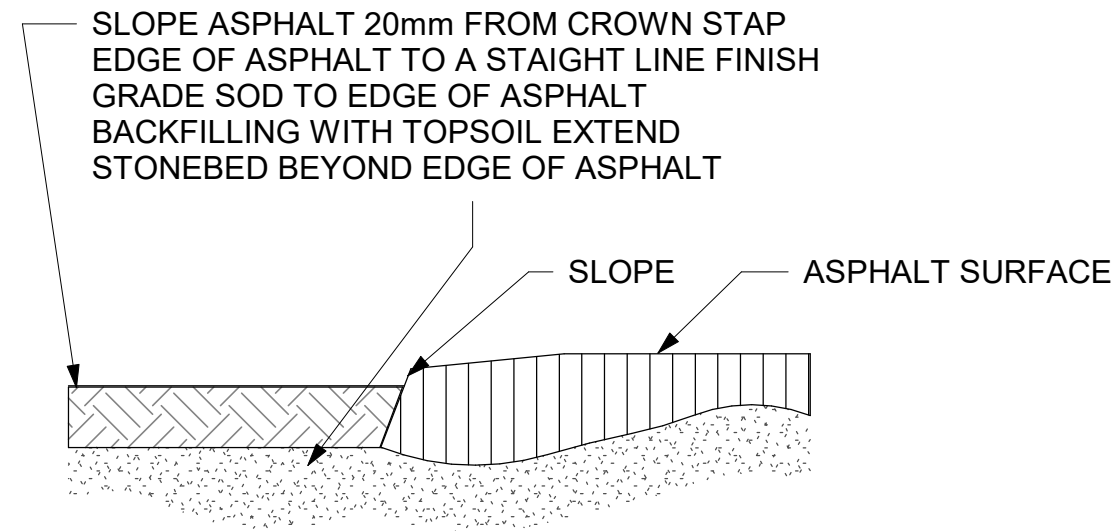
1 PAVER  
D1702 Scale: 1 : 10



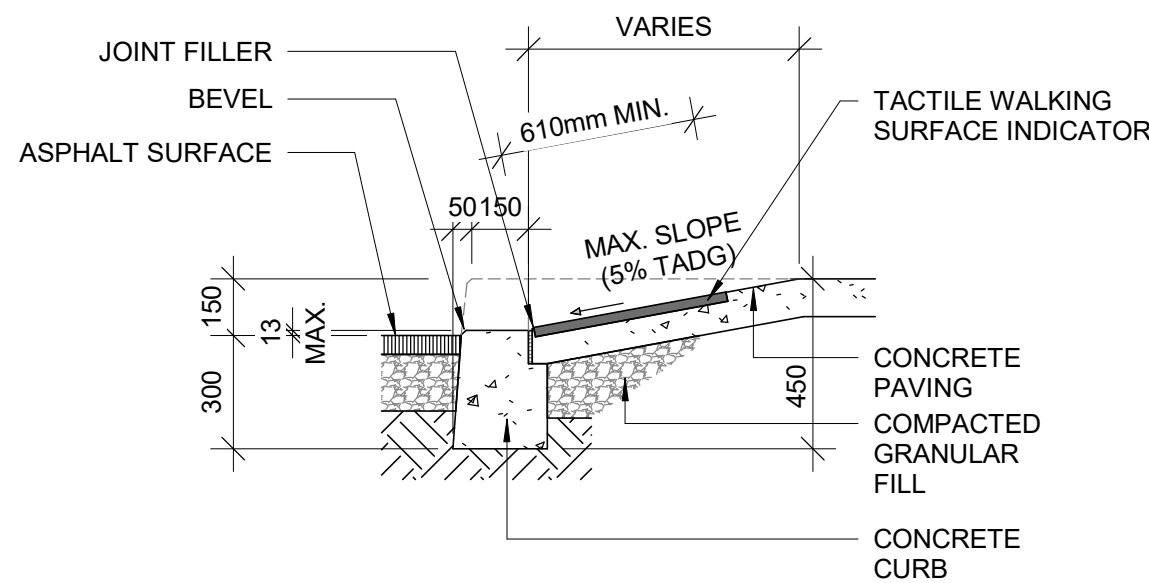
2 DEPRESSION CURB  
D1702 Scale: 1 : 10



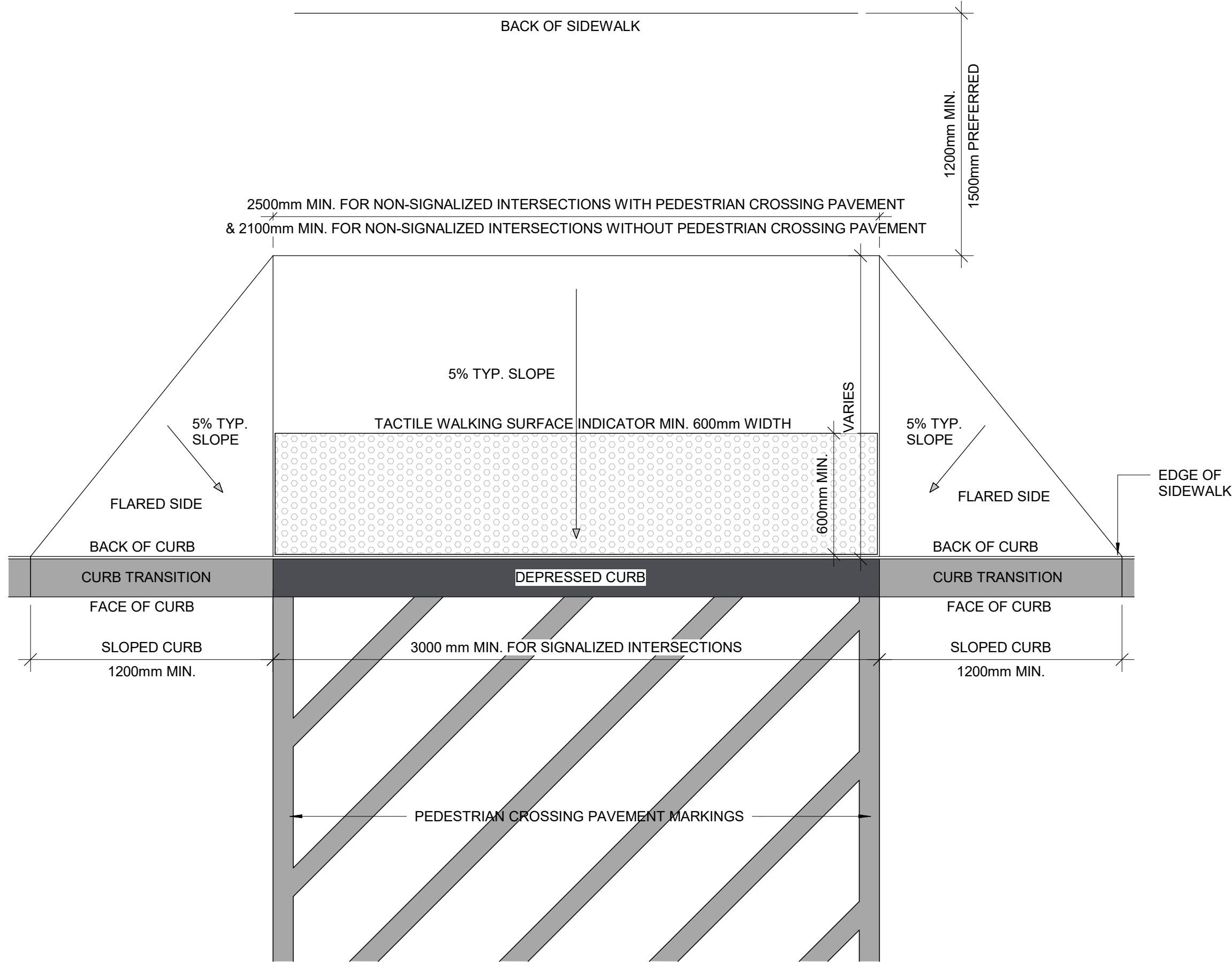
3 CURB DETAIL AT LANDSCAPED AREA  
D1702 Scale: 1 : 10



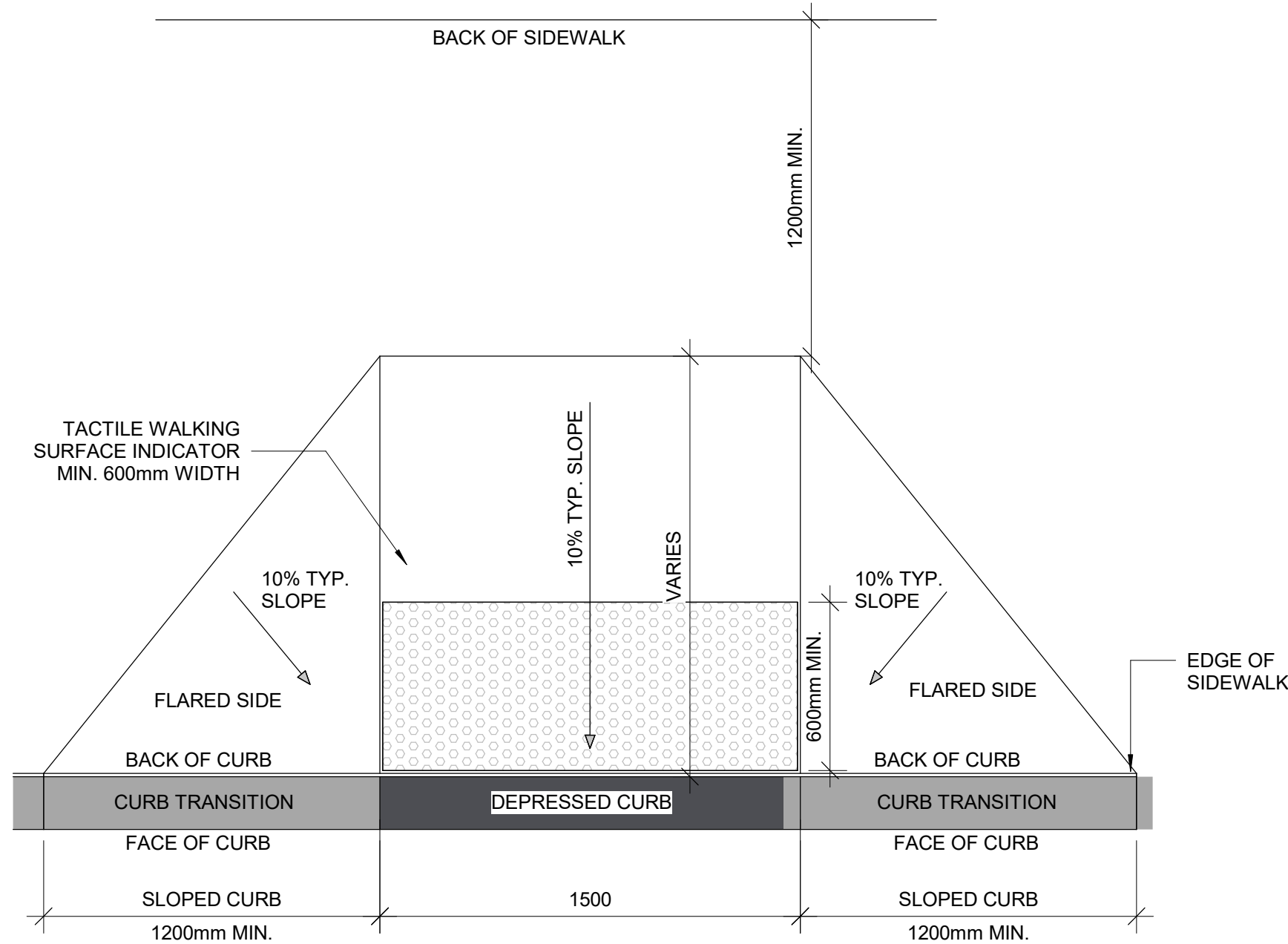
4 ASPHALT EDGE  
D1702 Scale: 1 : 10



6 CURB RAMP SECTION  
D1702 Scale: 1 : 20



5 LARGE CURB RAMP PLAN  
D1702 Scale: 1 : 20



7 CURB RAMP PLAN  
D1702 Scale: 1 : 20

ISSUES		
No.	DESCRIPTION	DATE
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**CITY OF TORONTO  
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PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
**A. BOYNARIAN**

CHECKED BY:  
**L. BANDIERA**

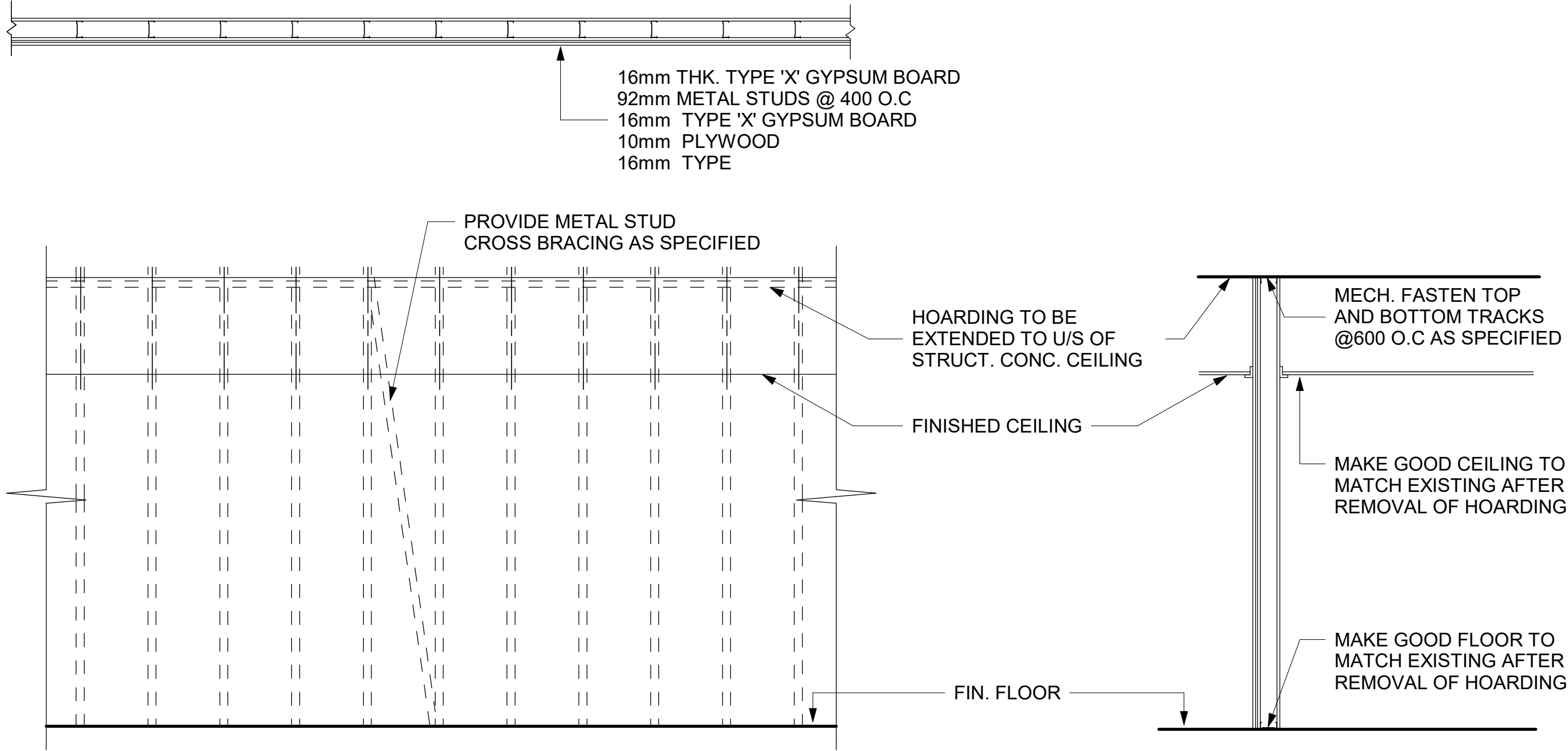
PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**E. FENUTA**

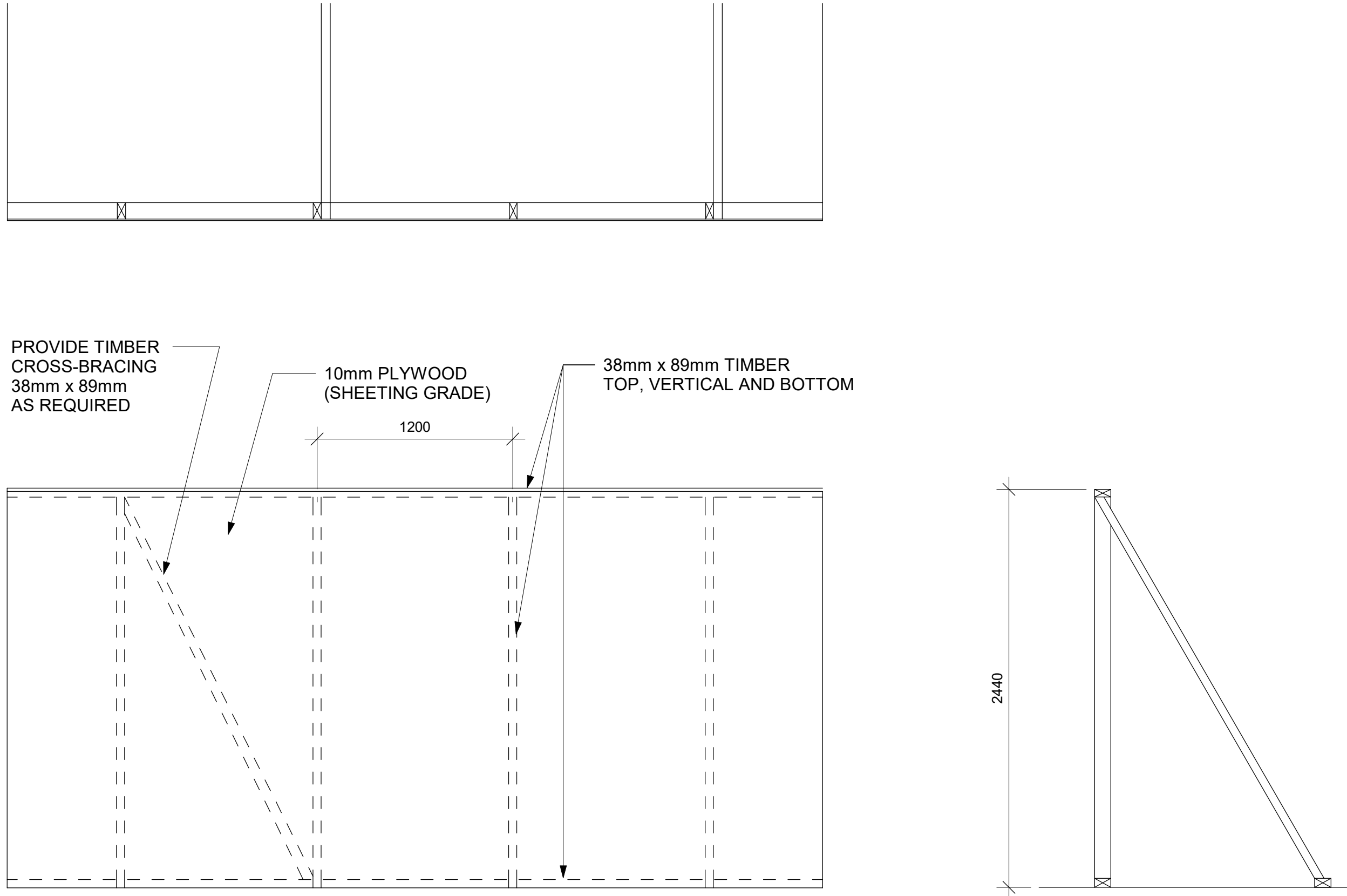
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**CURB DETAILS**

SHEET NUMBER  
**GAL-D1702**

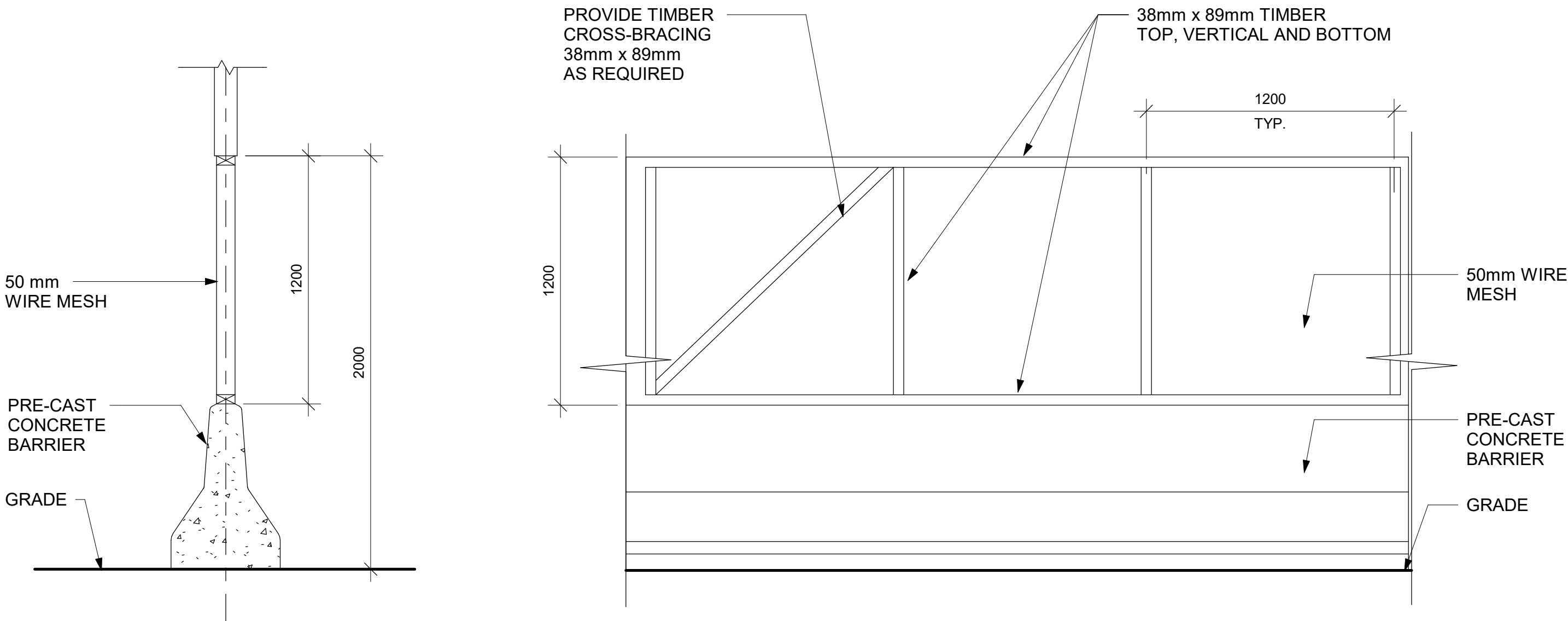
ISSUE  
**H**



1 PHASING / HOARDING DETAILS 1  
D1801 Scale: 1 : 25



3 PHASING / HOARDING DETAILS 3  
D1801 Scale: 1 : 25



2 PHASING / HOARDING DETAILS 2  
D1801 Scale: 1 : 20

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No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2023-02-17
E	ISSUED FOR REVISED PERMIT/100%	2023-08-31
F	ISSUED FOR REVISED 100% PERMIT	2024-04-30
G	ISSUED FOR REVISED PERMIT	2024-06-14
H	ISSUED FOR TENDER	2025-09-08

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tel 416 679 1930  
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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
A. BOYNARIAN

CHECKED BY:  
L. BANDIERA

PROJECT MGR:  
F. BOLOURIAN

APPROVED BY:  
E. FENUTA

SHEET TITLE

HOARDING DETAILS

SHEET NUMBER

GAL-D1801

ISSUE

H

2025-09-09 4:50:07 PM

Autodesk Docs/122260 - Cot TAU Upgrades R2024122260-TAU-98-168Rivada-Details-R201 nt

1 m

10mm



ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
1234567890

**ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**abcdefghijklmnopqrstuvwxyz**  
**1234567890**

[illegible]

**FRONT VIEW**

Dimensions: 195 mm (width), 457 mm (height), 2 mm (thickness).

Material: 304 Stainless Steel.

Text: "South Entrance" (English and Hindi).

Symbol: International Symbol of Access (wheelchair icon).

Callouts:

- Zinc-rich **elco-panel** (PFI-235-AGC) with tactile pins, engraved & laser.
- Surface and letters painted in **Matheson Paint** WP-11552 Exterior Blue-Green-glass Finish.
- Spots mounted on convex door surface with **3M 245 Extreme Mounting Tape** and Edgelo.
- Tactile graphics, message and line painted in **WP-12113 White Harder Semi-gloss Finish** on the surface.
- Do not use **STAMP PAINT** for Exterior signs, have to be painted.
- Grade 1 Braille, colour to match background.

**Side View**

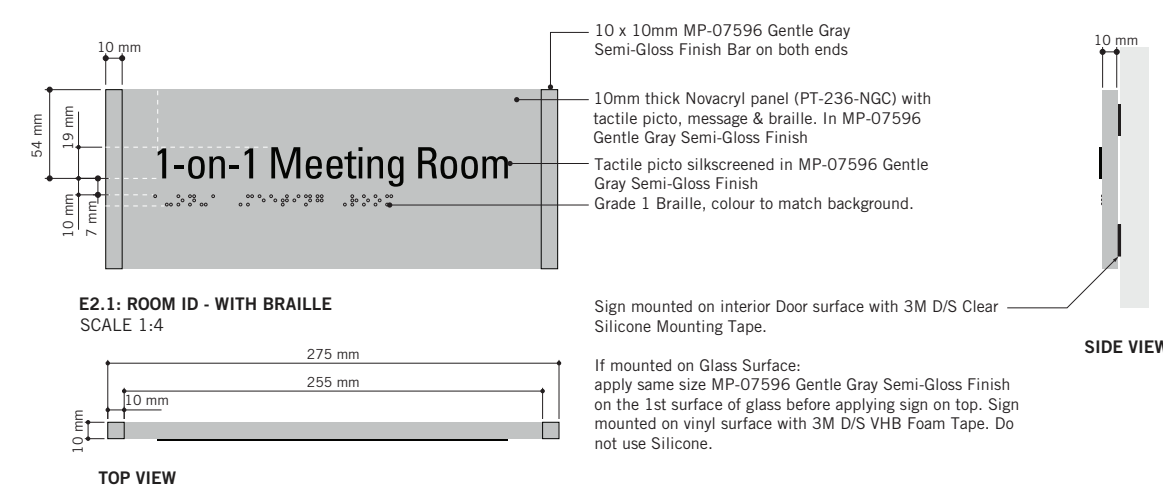
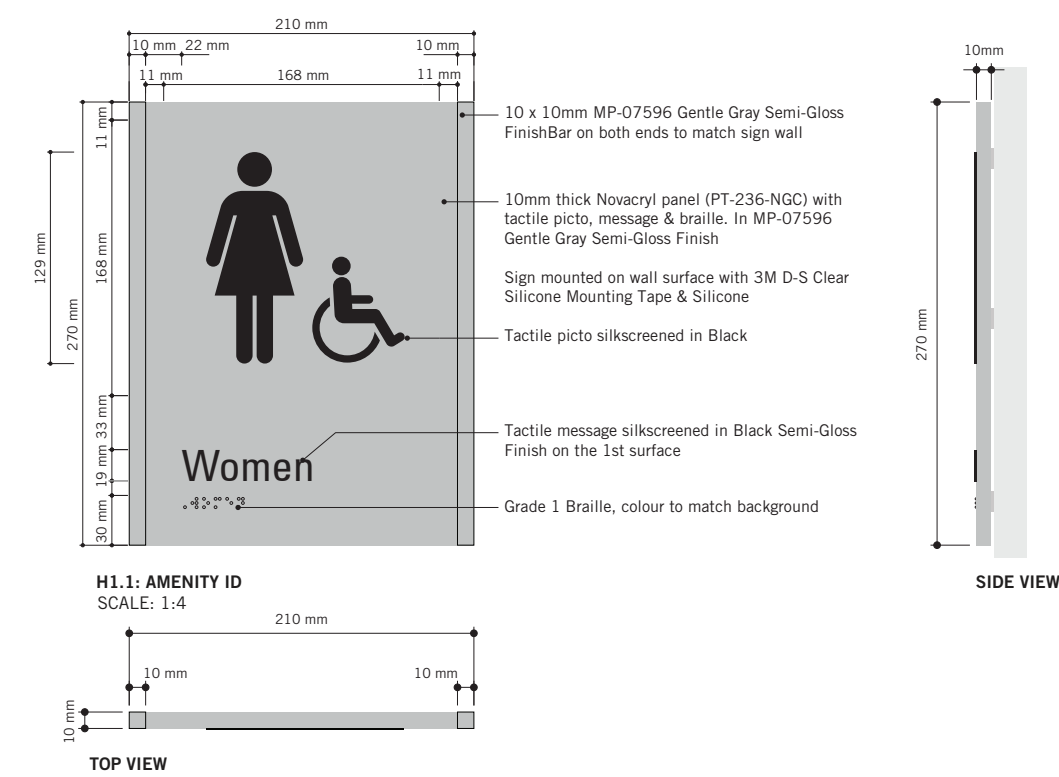
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**TOP VIEW**

Dimensions: 195 mm (width), 2 mm (thickness).

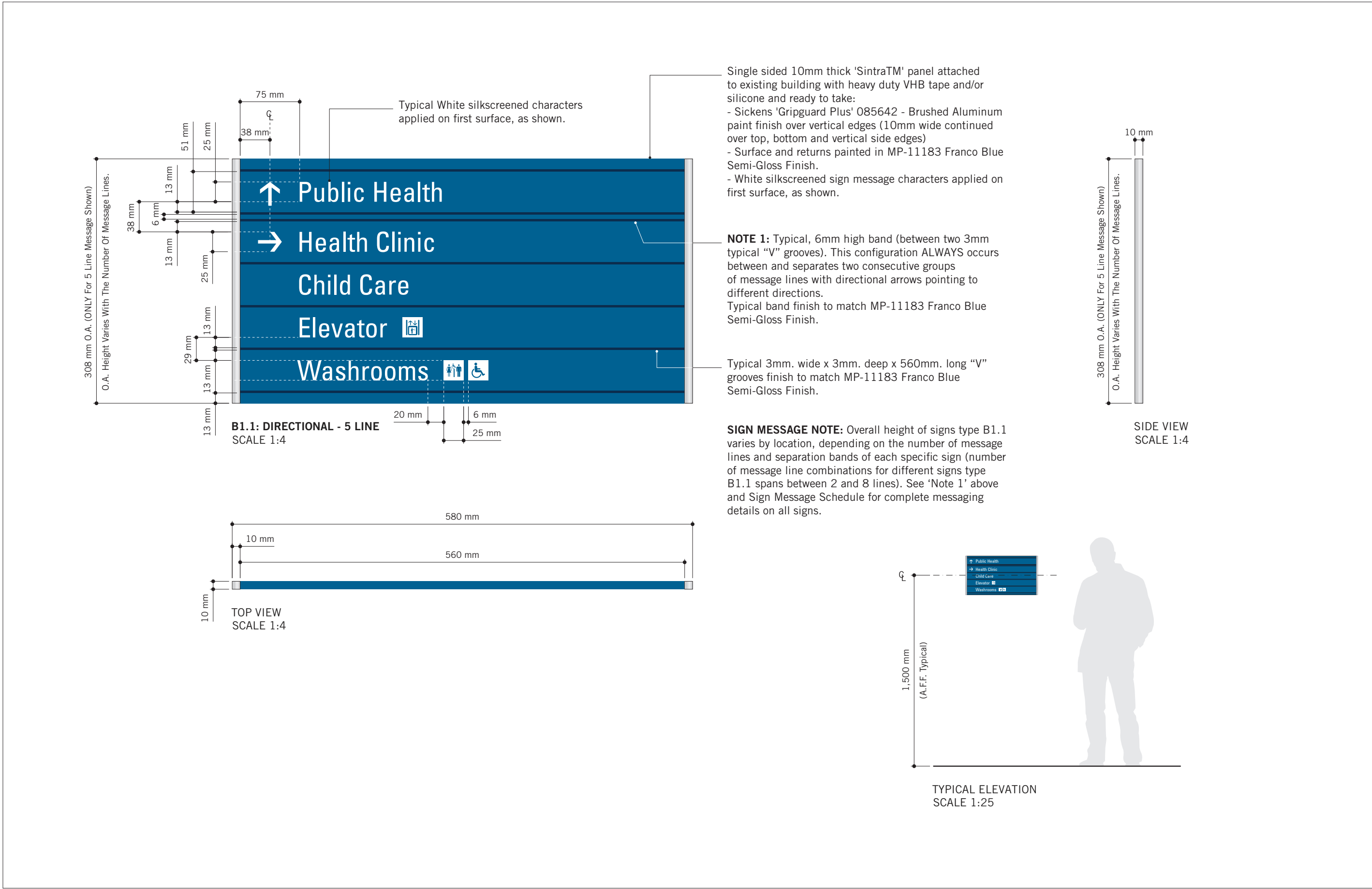
**3D ACCESSIBLE ENTRANCE ID - EXTERIOR**

**SCALE 1:1**

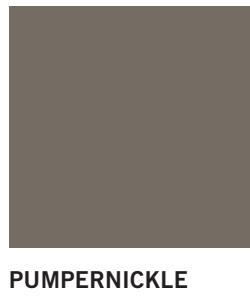
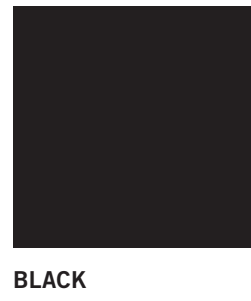


**Note:**  
Typical colours for all Toronto Police  
Service Standards building upgrades.

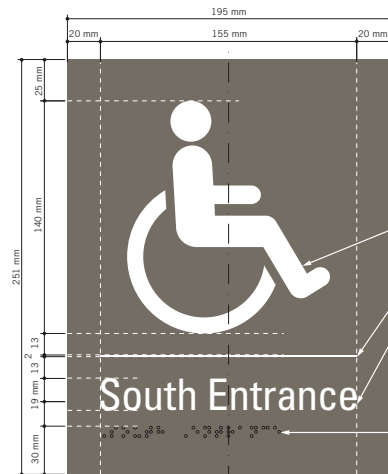
SHEET NUMBER	ISSUE
D1901	A



TYPICAL TORONTO ARCHIVES BUILDING STANDARDS



Matthews Acrylic  
MP-06179  
Semi-Gloss Finish

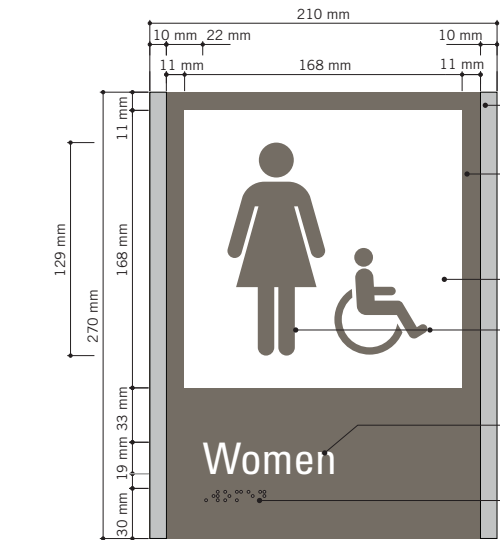
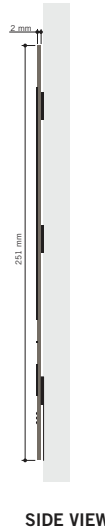


2mm thick acrylic panel (PT-236-NG2) with tactile picto, message & Braille.  
Surface and returns painted in Matthews Paint MP-06179 Pumpernickle Semi-Gloss Finish.  
Sign mounted on exterior door surface with 3M D-S Clear Silicone Mounting Tape and Silicone.

Tactile graphics, message and picto painted in MP-32071 White Wonder Semi-Gloss Finish on the 1st surface.  
Do not use STAMP PAINT for Exterior signs, here is to be painted.

Grade 1 Braille, colour to match background.

10 Top Face text in Grade 1 Braille

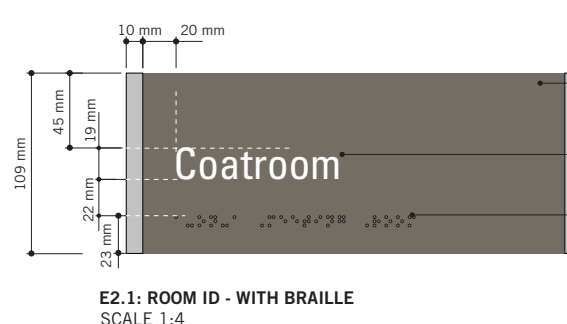
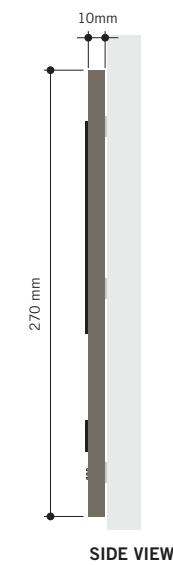


10 x 10mm silver bars on both ends painted in GripGuard Plus 085642 brushed aluminum matte finish.  
10mm thick Novacryl panel (PT-236-NG2) in MP-06179 Pumpernickle Semi-Gloss Finish.  
Sign mounted on wall surface with 3M D-S Clear Silicone Mounting Tape & Silicone.  
168mm x 168mm inside area painted area in MP-32071 White Wonder Semi-Gloss Finish.  
Tactile picto silkscreened in MP-06179 Pumpernickle Semi-Gloss Finish.

Tactile message silkscreened in MP-32071 White Wonder matte finish on the 1st surface.

Grade 1 Braille, colour to match background.

TOP VIEW  
SCALE 1:4



10 x 10mm silver bars on both ends painted in GripGuard Plus 085642 brushed aluminum matte finish.  
10mm thick Novacryl panel (PT-236-NG2) with tactile message & Braille. In MP-06179 Pumpernickle Semi-Gloss Finish.  
Tactile message silkscreened in MP-32071 White Wonder matte finish on the 1st surface.  
Grade 1 Braille, colour to match background.

Sign mounted on interior Door surface with 3M D-S Clear Silicone Mounting Tape.

If mounted on Glass Surface, apply same size MP-06179 Pumpernickle Semi-Gloss Finish on the 1st surface of glass before applying sign on top. Sign mounted on vinyl surface with 3M D-S VHB Foam Tape. Do not use Silicone.

Note:  
Typical colours for Toronto Archives  
Building Standards building upgrades.

ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**GROUP 05 BUILDINGS**

PROJECT NO:  
9119 - 19 - 0162 / IBI 122260

DRAWN BY:  
**M.LOW**

CHECKED BY:  
**C.D. SCHNOBB**

PROJECT MGR:  
**R. DALY**

APPROVED BY:

SHEET TITLE  
**SIGNAGE & WAYFINDING  
DETAILS**

**B1.1: DIRECTIONAL SIGNAGE**

SHEET NUMBER  
**D1902**

ISSUE  
**A**



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PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

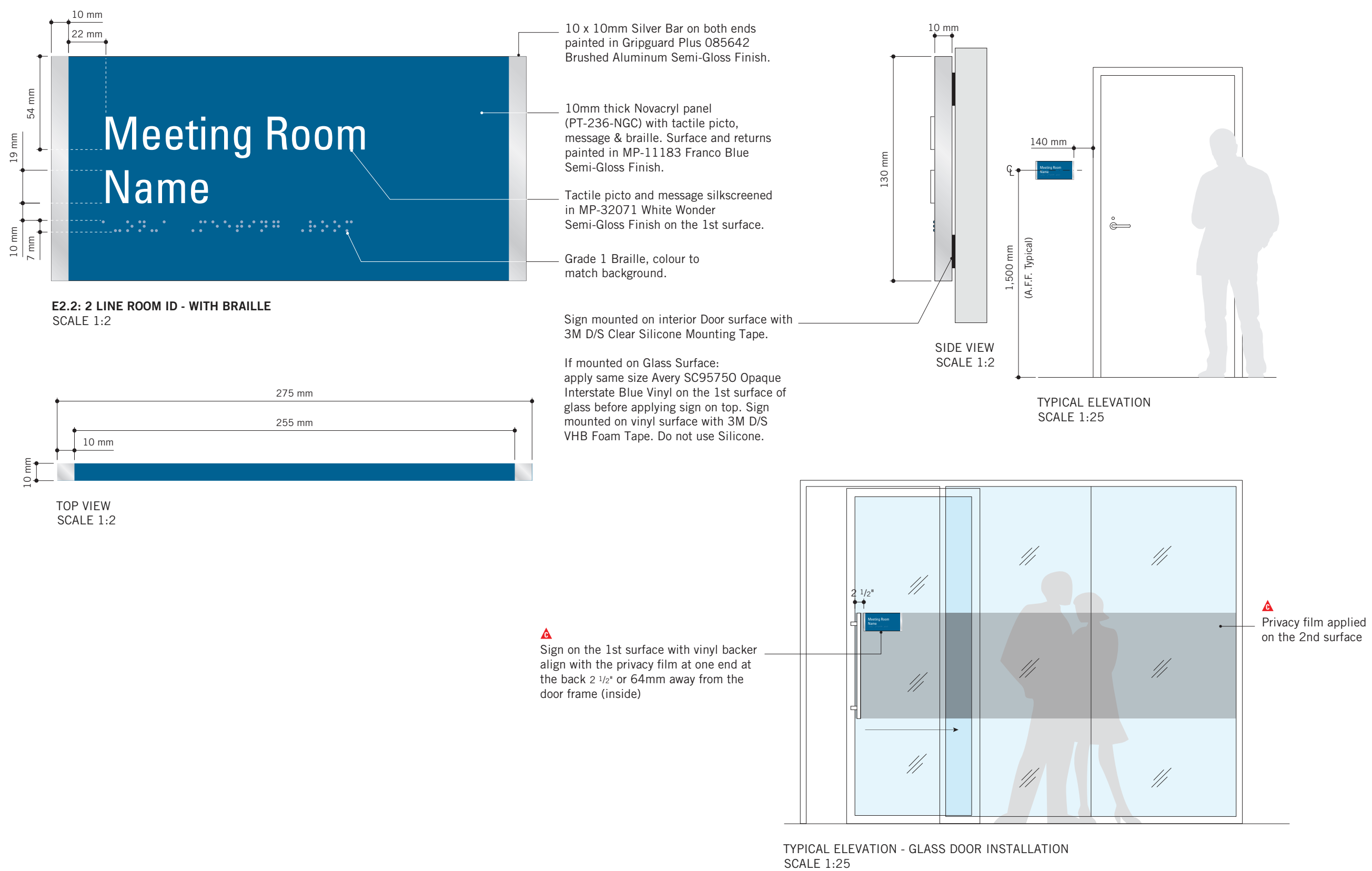
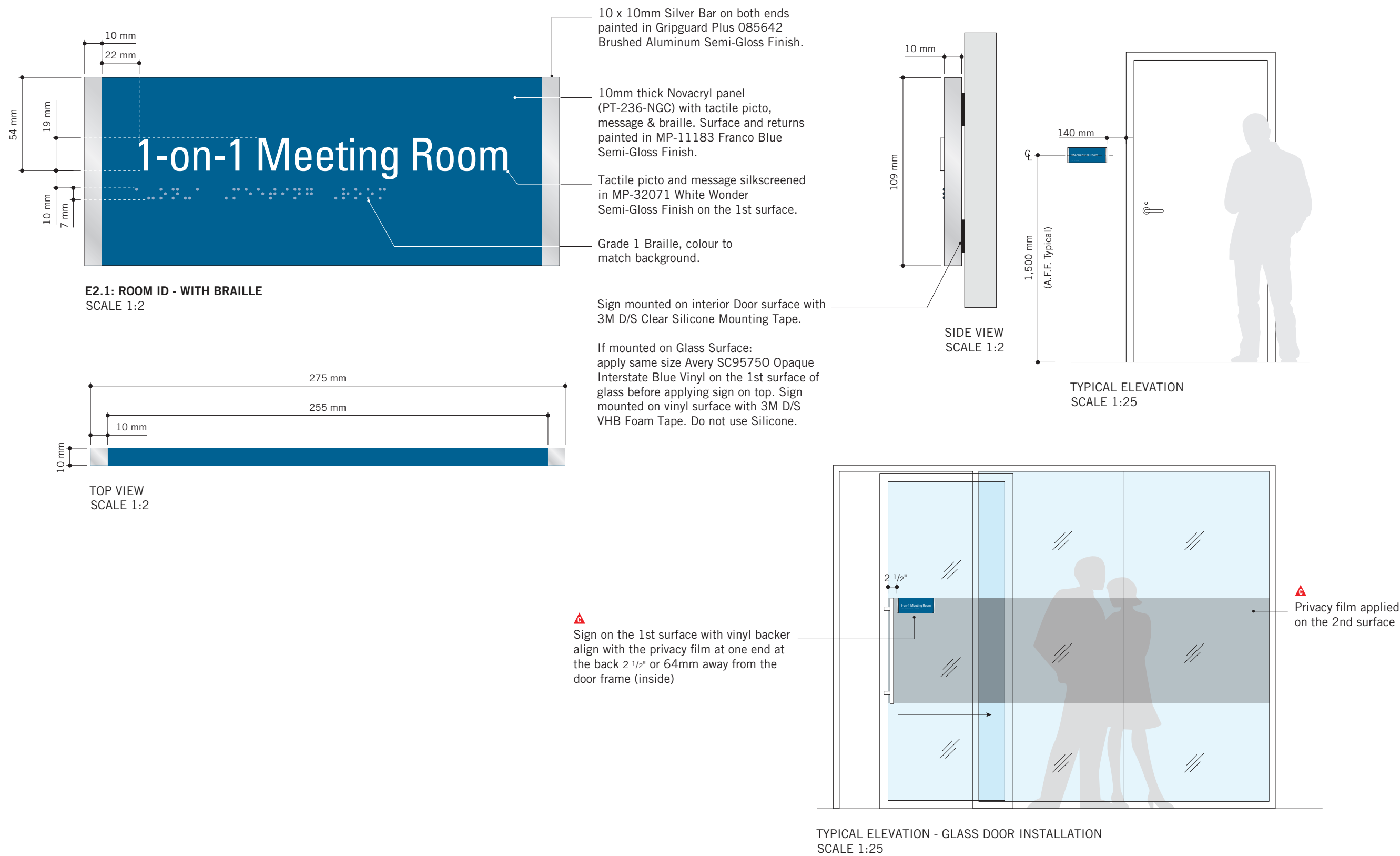
PROJECT ADDRESS  
GROUP 05 BUILDINGS

PROJECT NO:  
9119 – 19 – 0162 / IBI 122260

DRAWN BY: <b>M.LOW</b>	CHECKED BY: <b>C.D. SCHNOBB</b>
PROJECT MGR: <b>R. DALY</b>	APPROVED BY:

SHEET TITLE  
SIGNAGE & WAYFINDING  
DETAILS  
E2: ROOM ID

SHEET NUMBER <b>D1903</b>	ISSUE <b>A</b>
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VARIATIONS  
SCALE 1:3



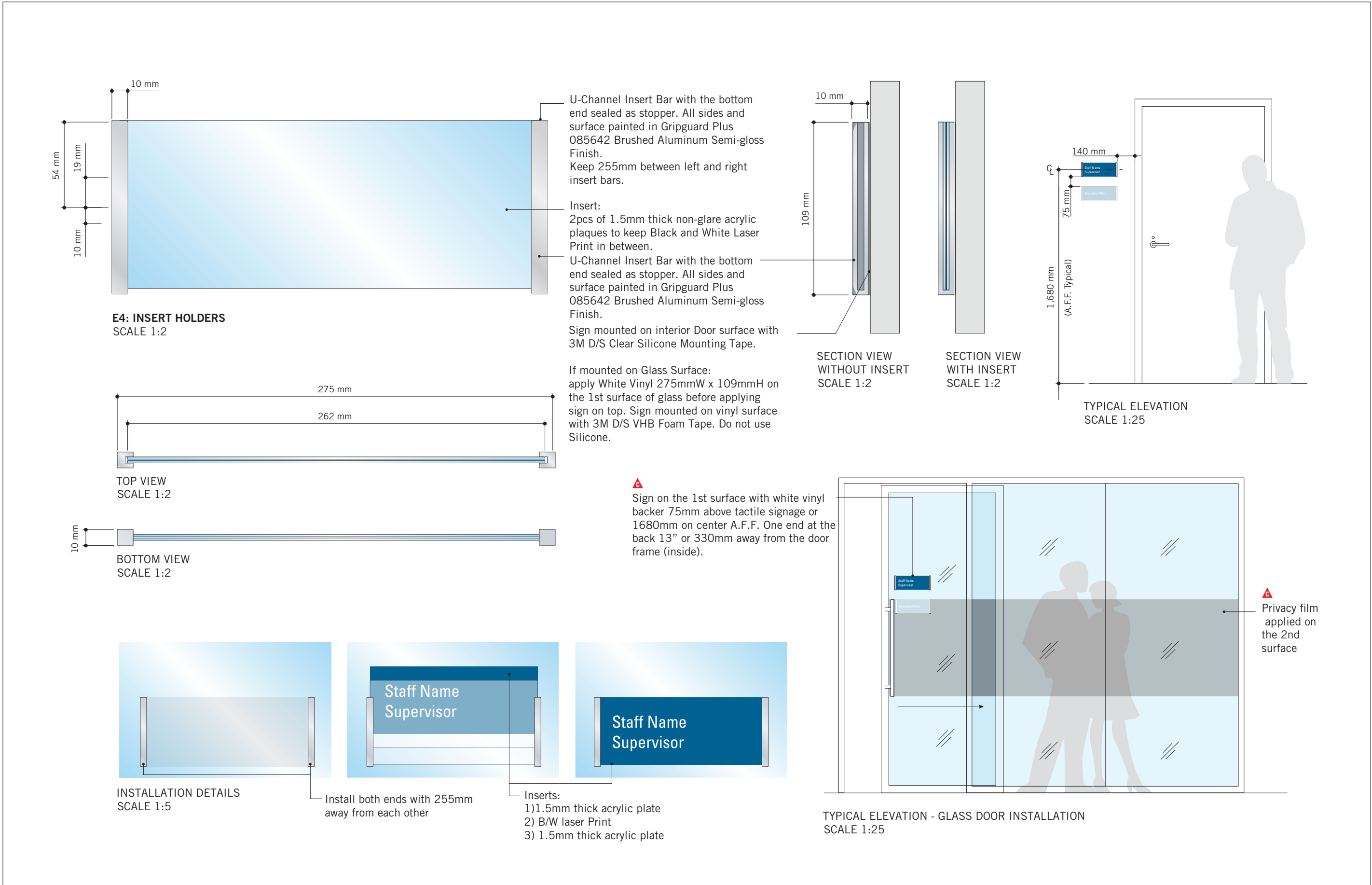
VARIATIONS  
SCALE 1:3



VARIATIONS  
SCALE 1:3




VARIATIONS  
SCALE 1:3



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CITY OF TORONTO



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TORONTO, ON  
M5V 3C6

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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

GROUP 05 BUILDINGS

PROJECT NO:

9119 – 19 – 0162 / IBI 122260

DRAWN BY:

M.LOW

CHECKED BY:

C.D. SCHNOBB

PROJECT MGR:

R. DALY

APPROVED BY:

SHEET TITLE

SIGNAGE & WAYFINDING  
DETAILS  
E4: INSERT HOLDER

SHEET NUMBER

D1904

ISSUE

A





**H2.1: PROJECTING AMENITY ID**  
SCALE 1:2

TOP VIEW  
SCALE 1:2

— (2) 6mm thick 'Sintra panels, attached back to back to the 6mm thick Aluminum wall bracket, as shown.

Paint sign face (230mm wide  
continued over top & bottom) in  
Matthews Paint Semi-Gloss Finish  
MP-11183 Franco Blue.

Vertical edges (10mm wide continued over top, bottom and vertical edges) painted in Gripguard Plus 085642 Brushed Aluminum Semi-Gloss Finish.

3M 7725-20 Opaque Matte White Vinyl with knocked-out graphics applied to both sign faces.

3M 7725-20 Opaque Matte White Vinyl Letters applied to both sign faces.

SIDE VIEW  
SCALE 1:2

- (4) 1/4" C/S Toggle bolts into existing drywall (TBC). Heads painted to match.

— 6mm (1/4") thick Aluminum Wall Plate  
Painted in Gripguard Plus 085642  
Brushed Aluminum.

- (2) 6mm thick Sintra panels, attached back to back to 6mm thick Aluminum bracket.

TYPICAL ELEVATION  
SCALE 1:25

**VARIATIONS**  
SCALE 1:4



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PROJECT TITLE  
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ACCESSIBILITY UPGRADES

PROJECT ADDRESS  
GROUP 05 BUILDINGS

PROJECT NO:  
9119 - 19 - 0162 / IBI 122260

DRAWN BY  
M. LOW

CHECKED BY:  
C.D. SCHNOBE

PROJECT MGR  
R. DALY

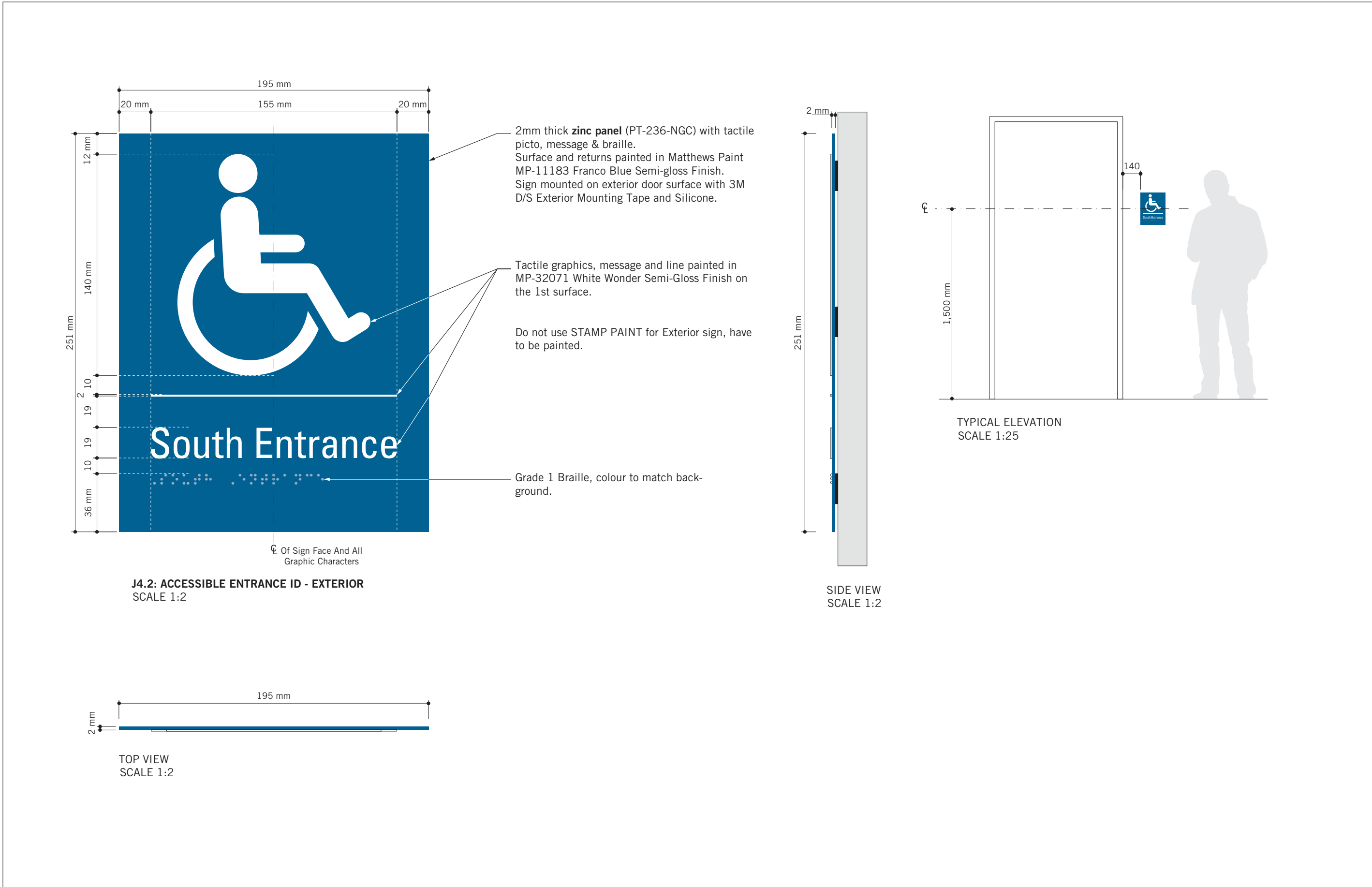
APPROVED BY:

SHEET TITLE  
SIGNAGE & WAYFINDING  
DETAILS  
H2.1:PROJECTING AMENITY  
ID

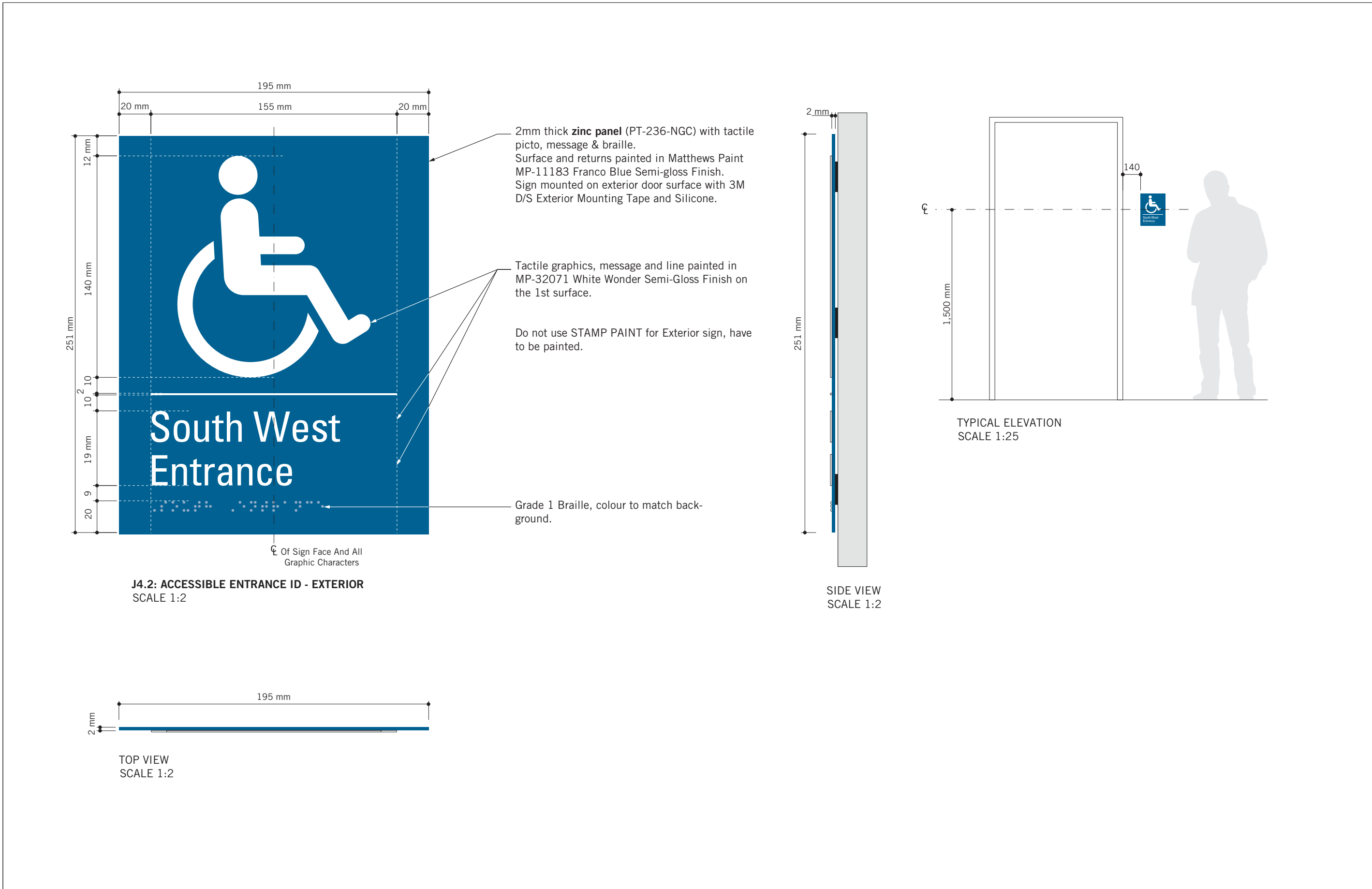
SHEET NUMBER  
D1906

ISSUE  
A





VARIATIONS  
SCALE 1:3



VARIATIONS  
SCALE 1:3

ISSUES		
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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

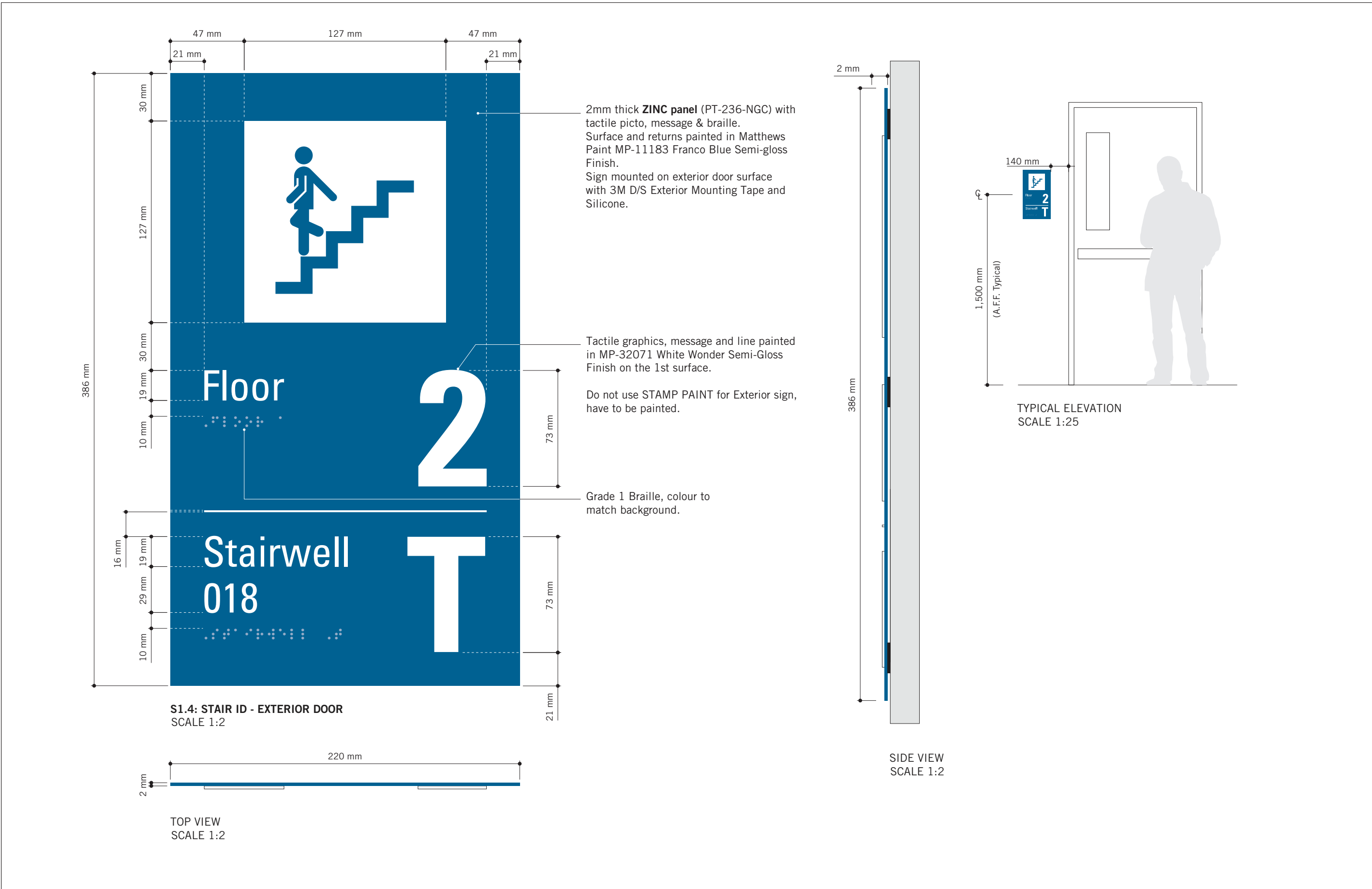
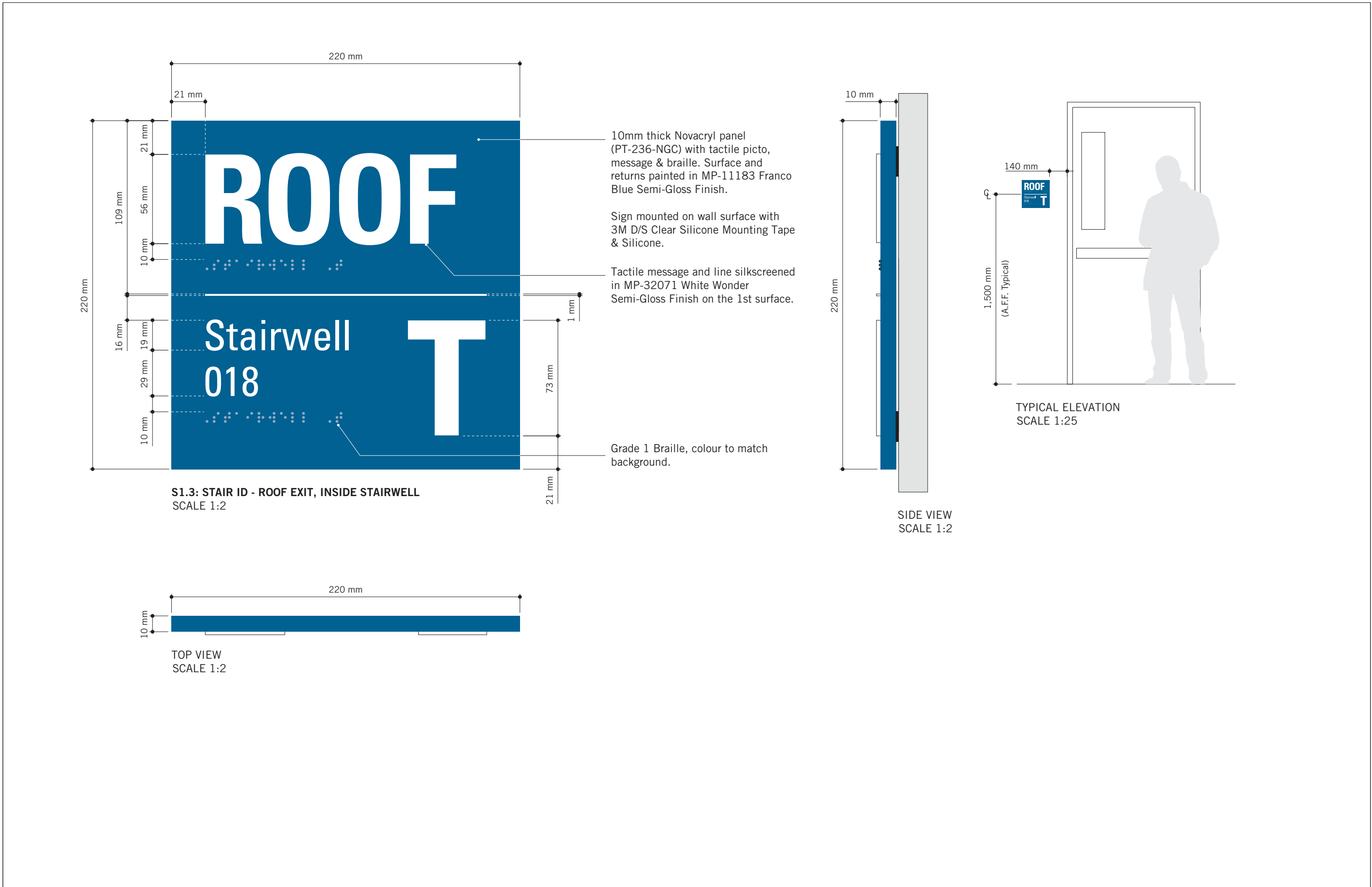
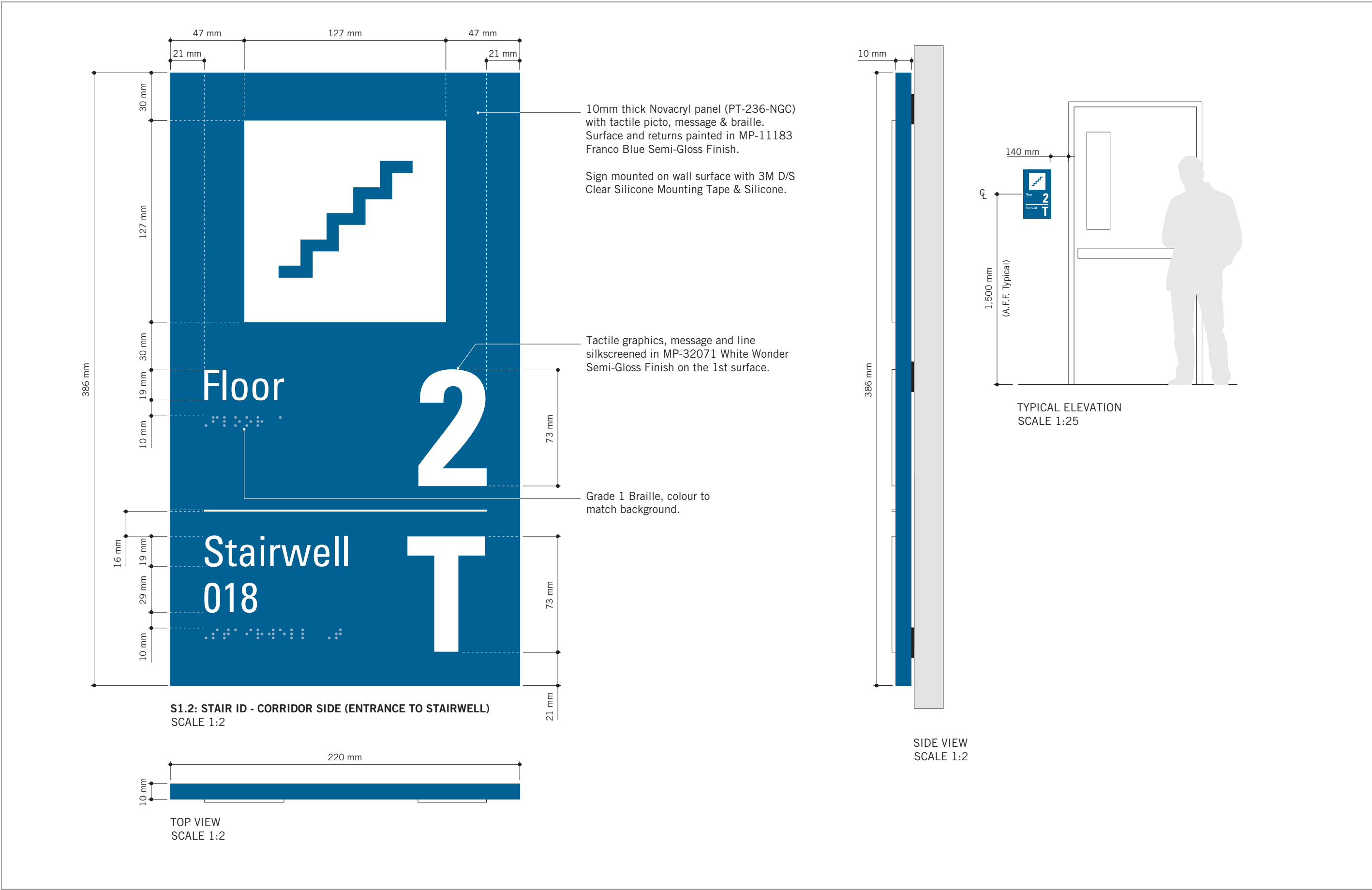
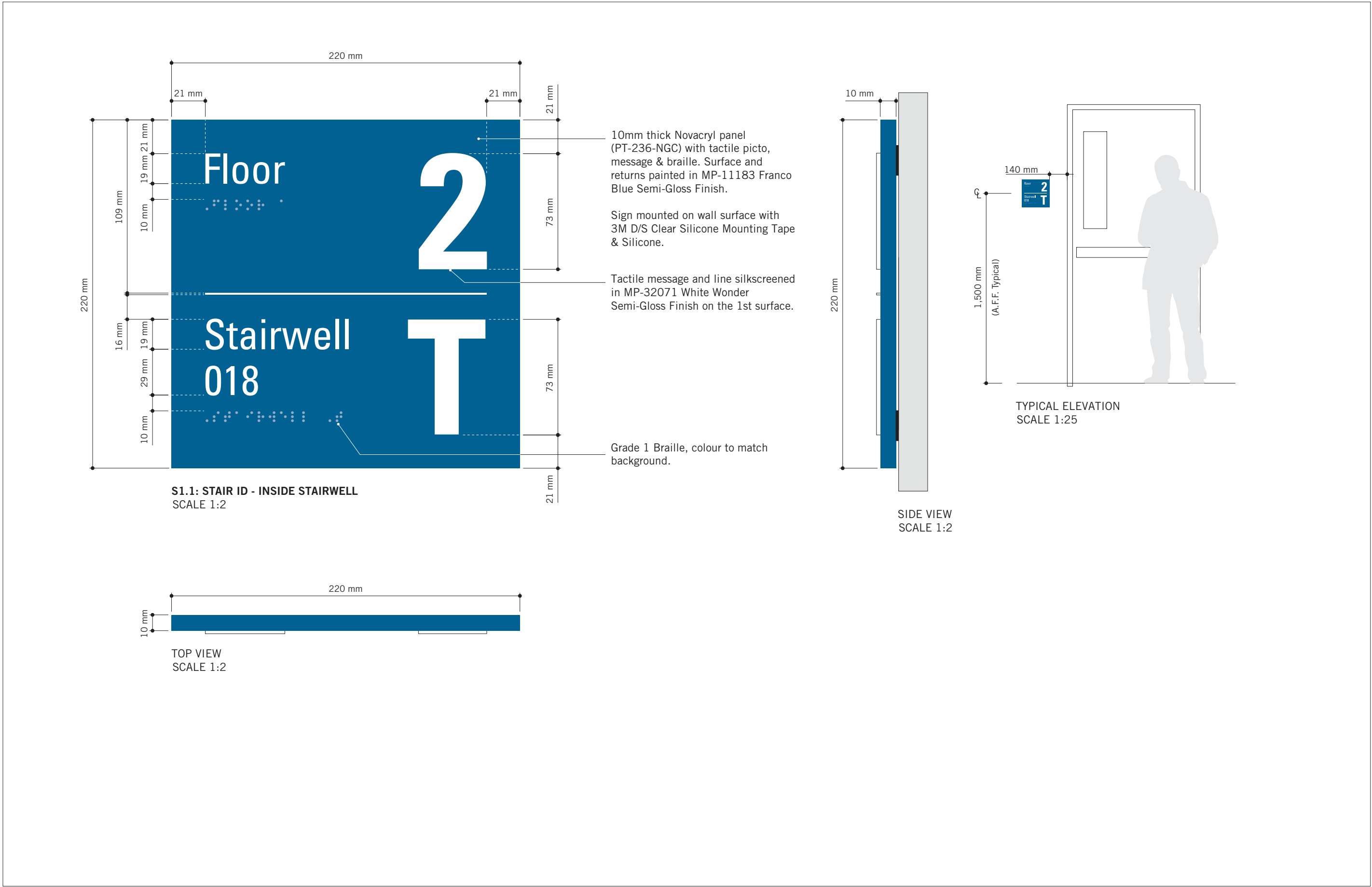
PROJECT ADDRESS  
**GROUP 05 BUILDINGS**

PROJECT NO:  
9119 - 19 - 0162 / IBI 122260

DRAWN BY: <b>M.LOW</b>	CHECKED BY: <b>C.D. SCHNOBB</b>
PROJECT MGR: <b>R. DALY</b>	APPROVED BY:

SHEET TITLE  
**SIGNAGE & WAYFINDING  
DETAILS  
J4: ACCESSIBLE ENTRANCE**

SHEET NUMBER <b>D1907</b>	ISSUE <b>A</b>
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**PROJECT TITLE**  
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ACCESSIBILITY UPGRADES

**PROJECT ADDRESS**  
GROUP 05 BUILDINGS

**PROJECT NO:**  
9119 - 19 - 0162 / IBI 122260

<b>DRAWN BY:</b> M.LOW	<b>CHECKED BY:</b> C.D. SCHNOBB
<b>PROJECT MGR:</b> R. DALY	<b>APPROVED BY:</b>

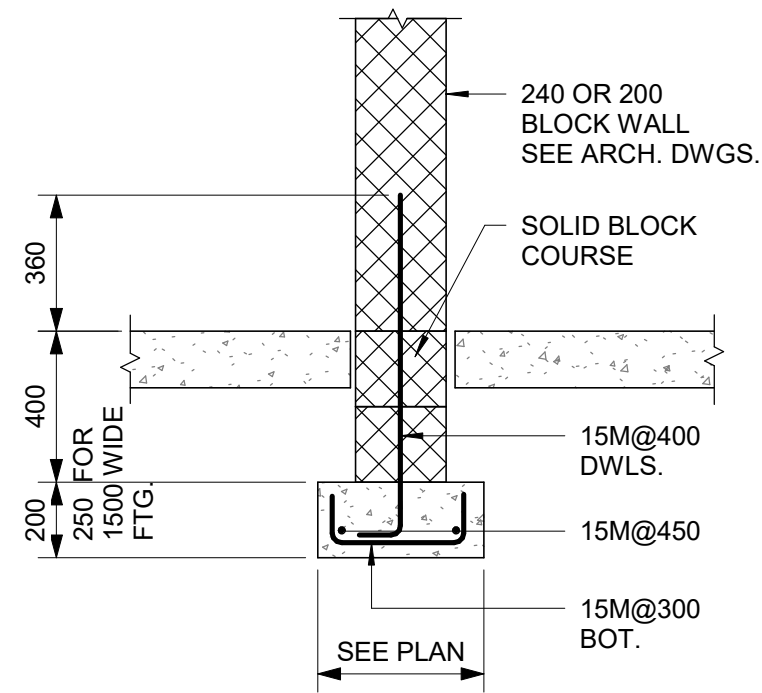
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SIGNAGE & WAYFINDING  
DETAILS  
S1: STAIR ID

**SHEET NUMBER**  
D1908

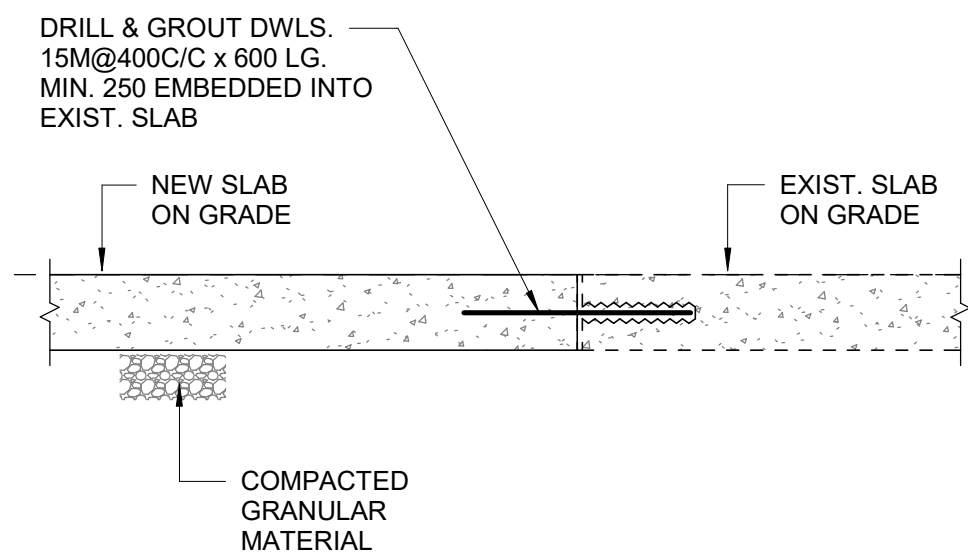
**ISSUE**  
A

C:\Users\ana.bonyan\OneDrive\Desktop\TAU-G31-100 QUEEN ST WEST - CITY HALL.mxd  
SCALE CHECK  
1 of 1

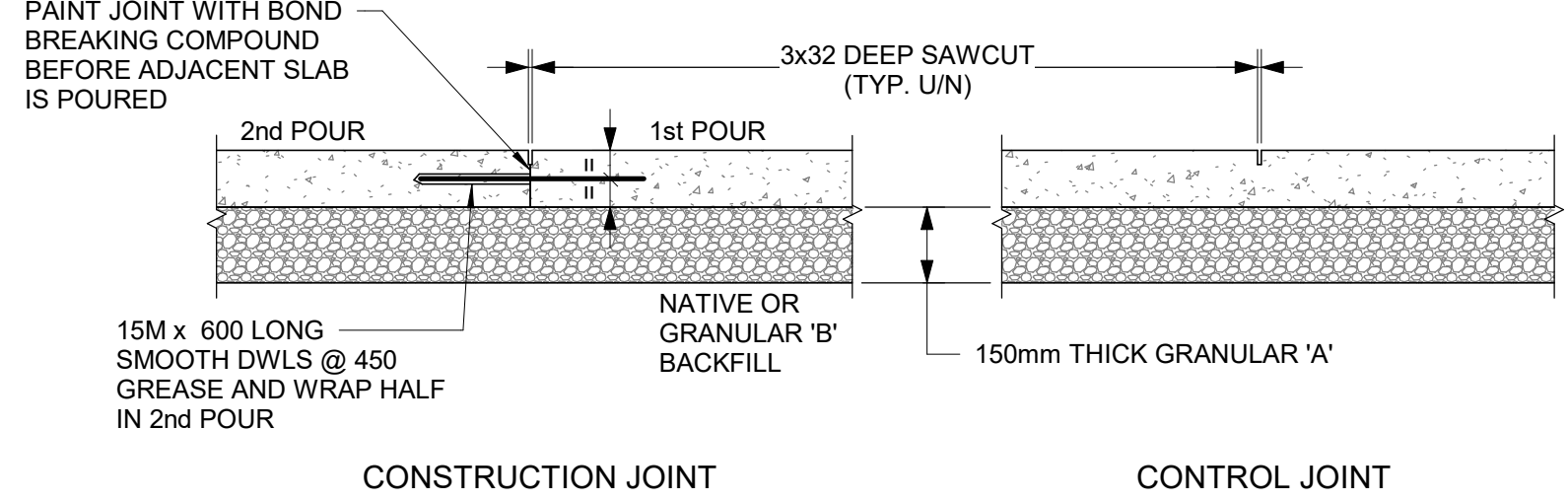




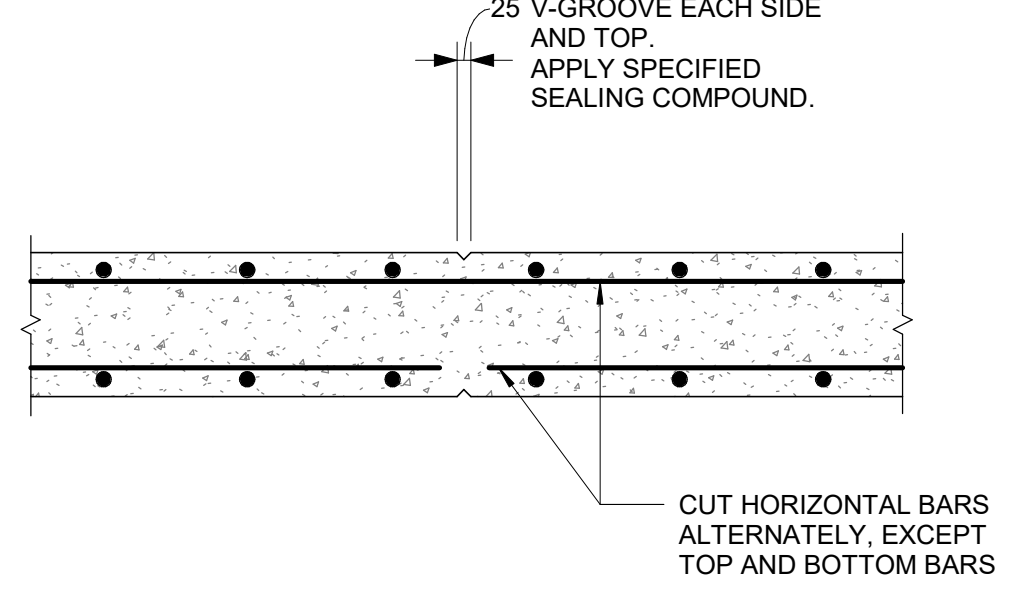
1 INTERIOR FOUNDATION WALL  
D2100 Scale: NTS



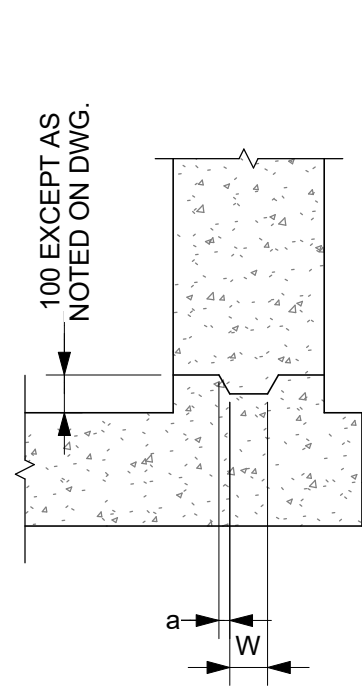
2 NEW SLAB CONNECTION TO EXISTING SLAB  
D2100 Scale: NTS



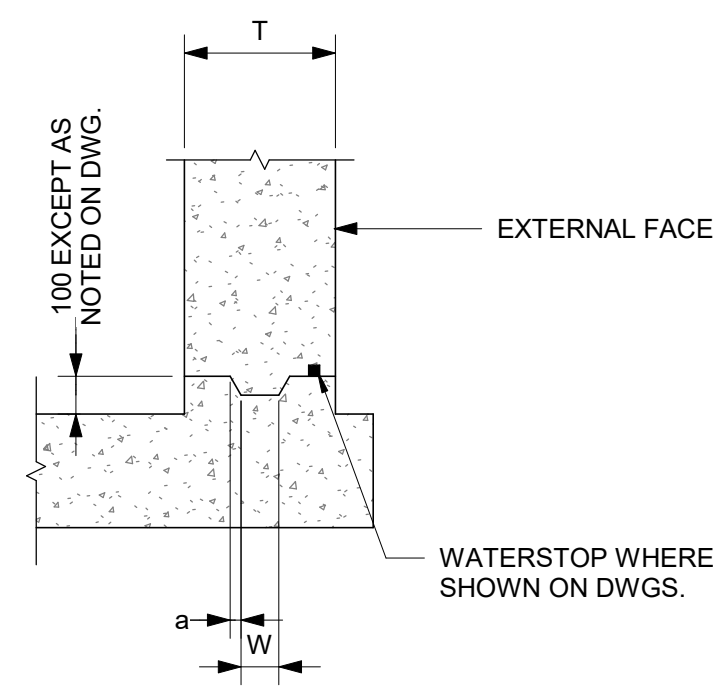
3 SLAB ON GRADE  
D2100 Scale: NTS



4 RETAINING WALL CONTROL JOINT  
D2100 Scale: 1 : 20



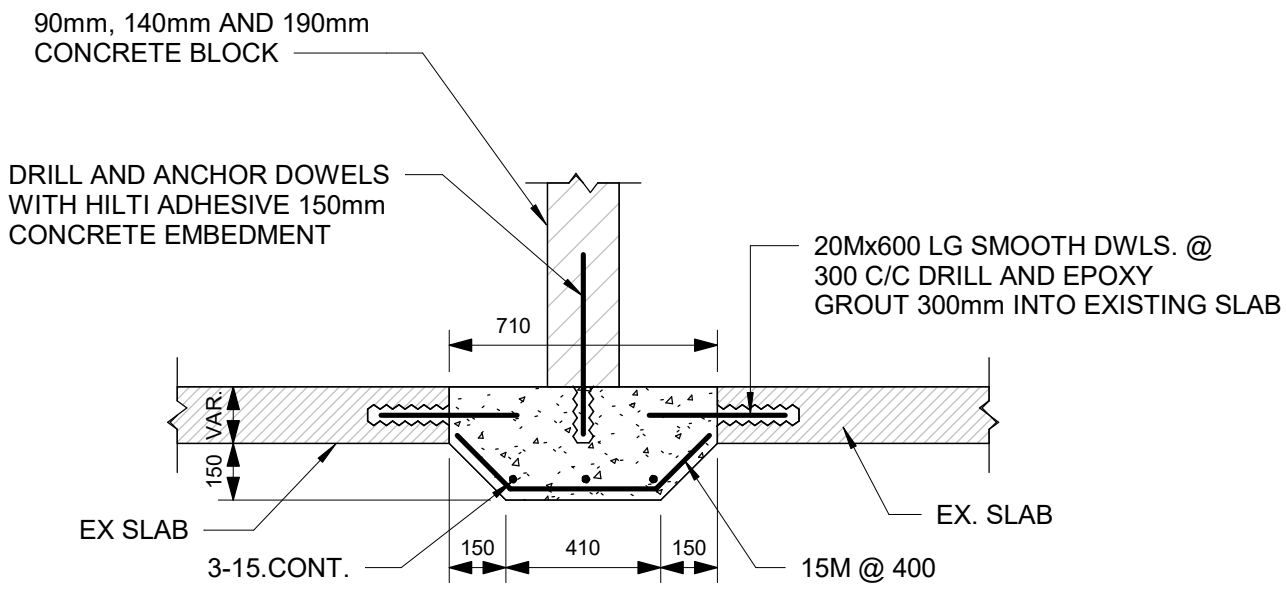
TYPE 1



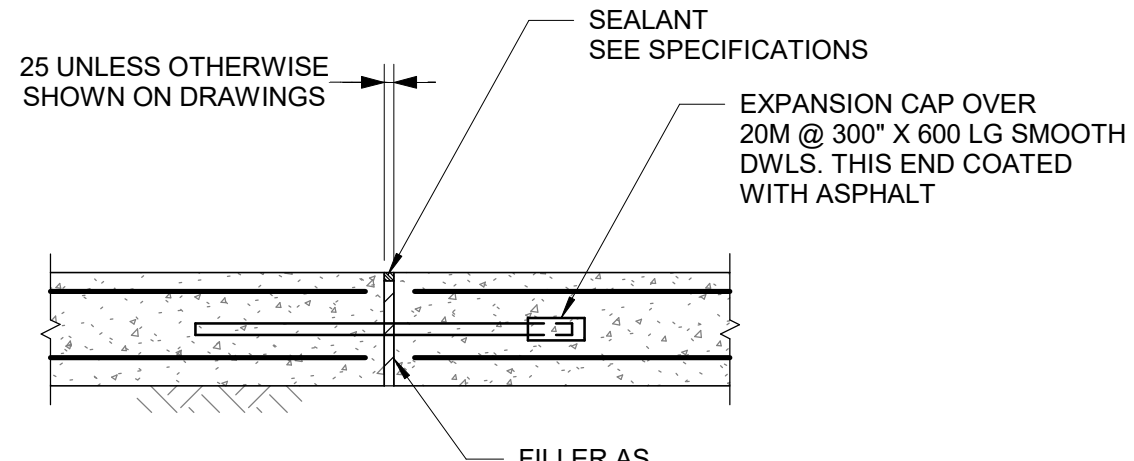
TYPE 1WS

WALL THICKNESS "T"	KEY SIZE		"a"
	"D"	"W"	
200 TO 300	50	100	5
310 TO 440	50	150	10
450 TO 590	75	200	20
600 TO 890	75	250	20

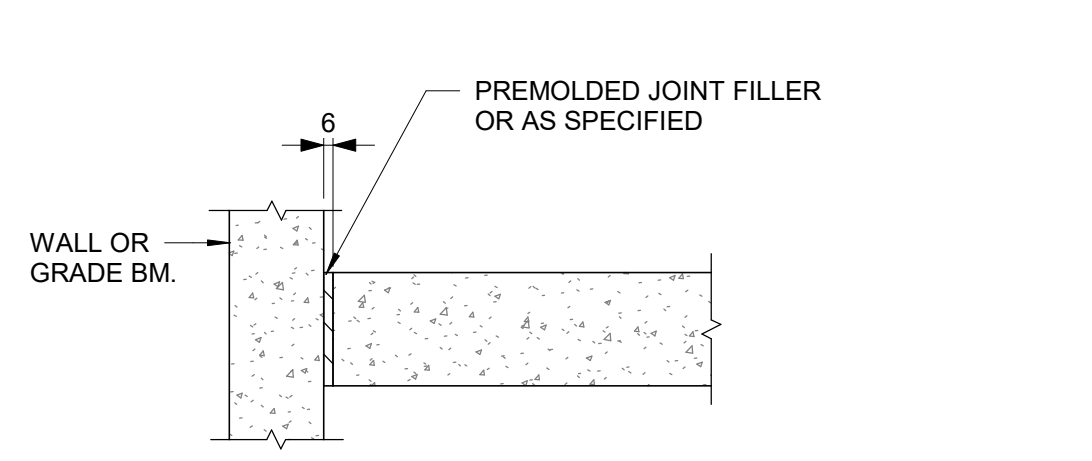
5 TYPICAL CONSTRUCTION JOINT AT EXTERIOR WALL  
D2100 Scale: 1 : 20



6 BLOCK WALL SLAB - THICKENING AT EXISTING SLAB  
D2100 Scale: 1 : 20

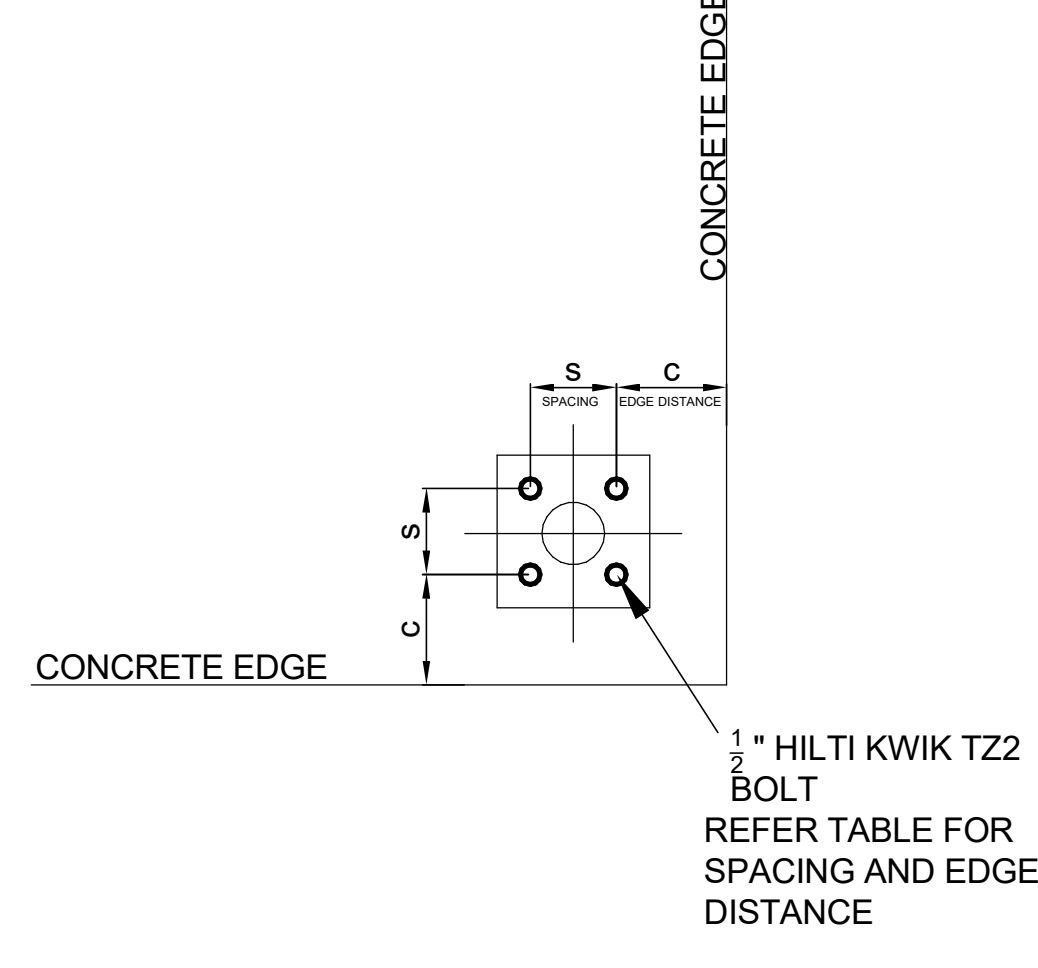


EXPANSION JOINTS



MIN EMBEDMENT	S.O.G. THICKNESS
MIN 3"	125mm
MIN 4"	150mm
MIN 6"	200mm

8 TYPICAL HOUSEKEEPING PAD  
D2100 Scale: 1 : 10



9 SPACING AND EDGE REQUIREMENTS FOR WEDGE ANCHORS (TYPICALLY USED FOR HANDRAILS)  
D2100 Scale: 1 : 5

HILTI KWIKBOLT TZ2 CARBON STEEL, DIA 1/2"					
CONCRETE THICKNESS	EFFECTIVE EMBEDMENT	Case 1		Case 2	
		MIN EDGE DIST. C <sub>MIN1</sub>	FOR SPACING S <sub>MIN1</sub>	MIN EDGE DIST. C <sub>MIN2</sub>	FOR SPACING S <sub>MIN2</sub>
200	83	57	133	121	51
150	64	70	248	203	76
125	51	70	140	254	89
100	38	203	305	203	305

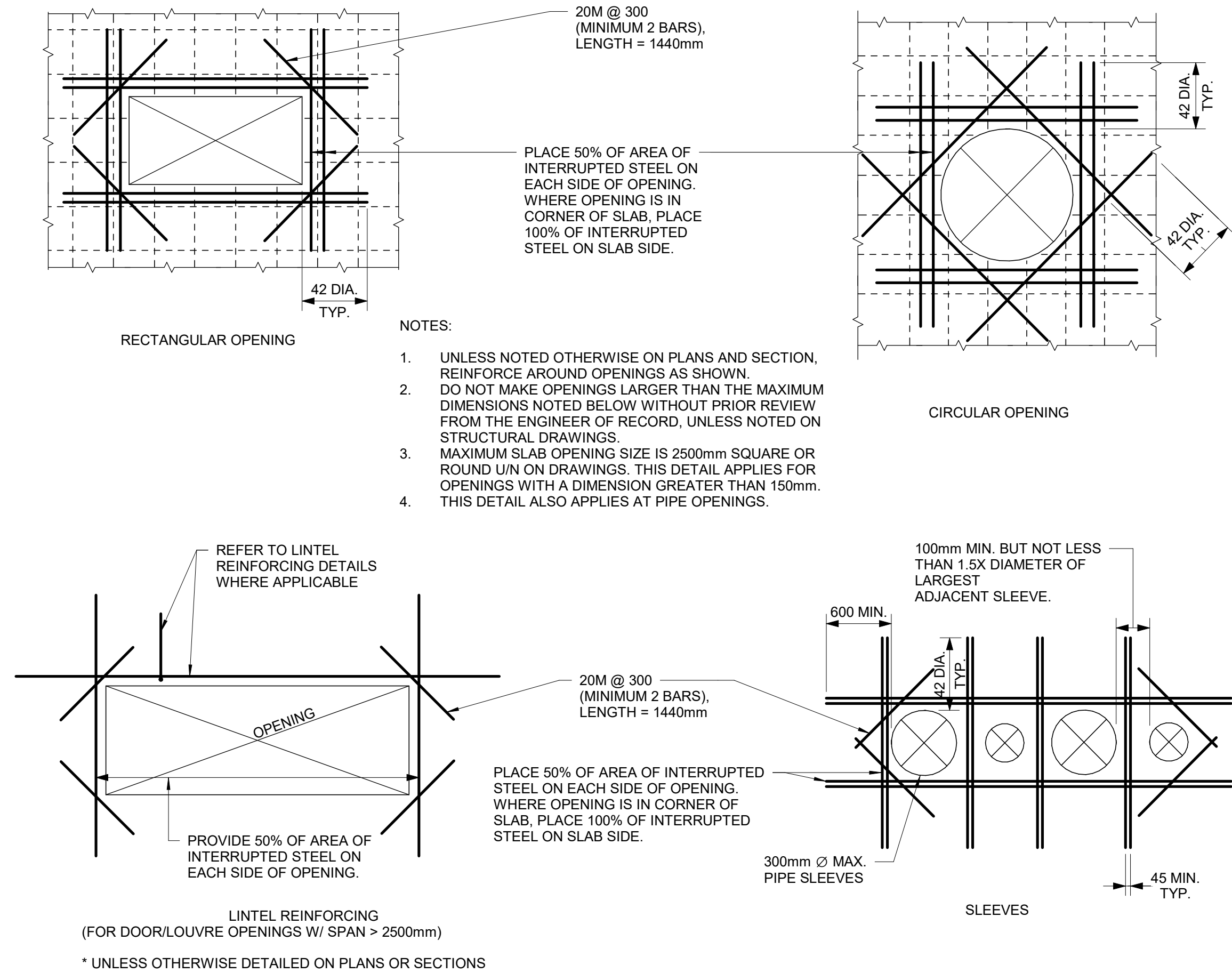
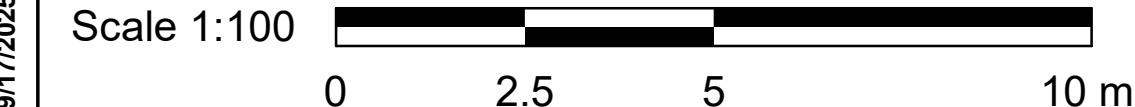
ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR PERMIT	2022-03-18
B	100% SUBMISSION	2023-02-17
C	ISSUED FOR REVISED PERMIT/100%	2023-08-31
D	ISSUED FOR TENDER	2025-09-05

CONSULTANTS

SEAL

PROJECT ADDRESS

9/17/2025 10:05:54 AM



1 ADD'L REINF. TO OPENINGS IN CONC. WALLS AND SLABS  
D2101 Scale: 1 : 20

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Arcadis Professional Services (Canada) Inc.

ISSUES		
No.	DESCRIPTION	DATE
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B	100% SUBMISSION	2023-02-17
C	ISSUED FOR REVISED PERMIT/100%	2023-08-31
D	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**N. ABID**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

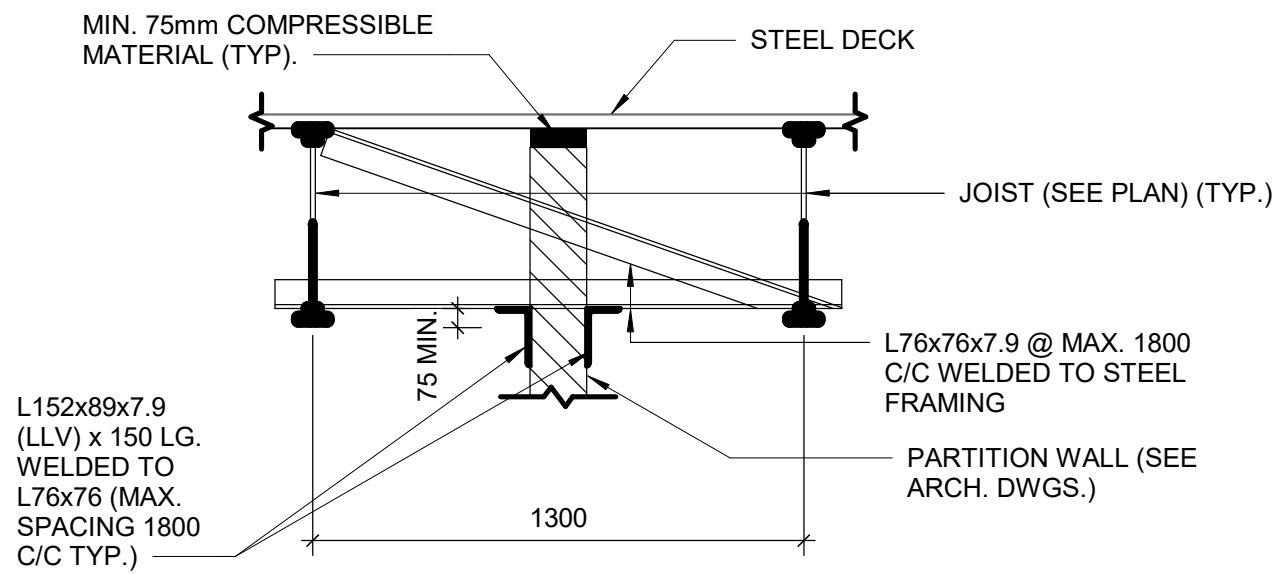
SHEET TITLE  
**CONCRETE TYPICAL  
DETAILS - 2**

SHEET NUMBER  
**G21-GAL-D2101**

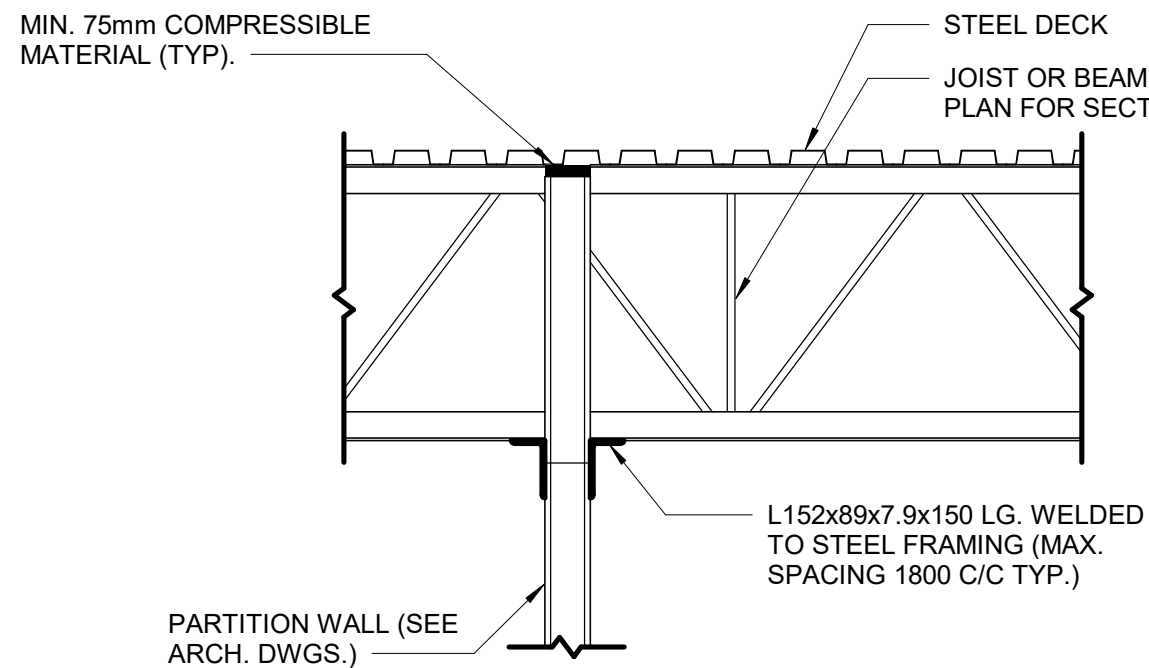
ISSUE  
**D**



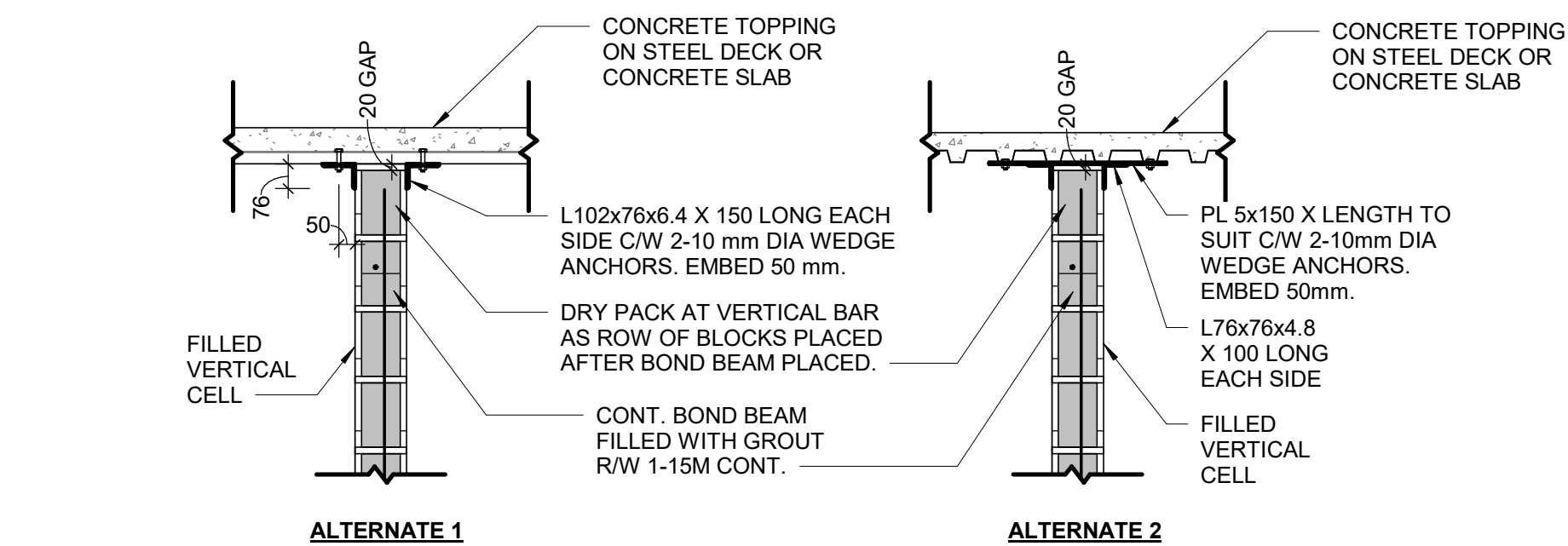
9/17/2025 10:06:04 AM



1 PARTITION WALL BETWEEN JOIST  
D2200 Scale: 1 : 20

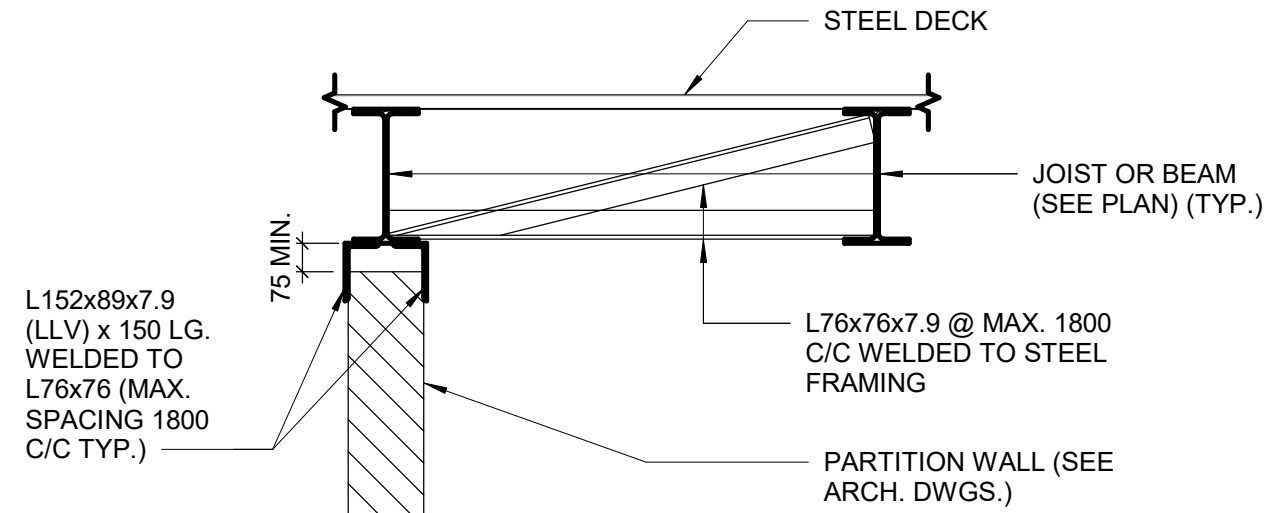


4 PARTITION WALL PERPENDICULAR TO JOIST OR BEAM  
D2200 Scale: 1 : 20

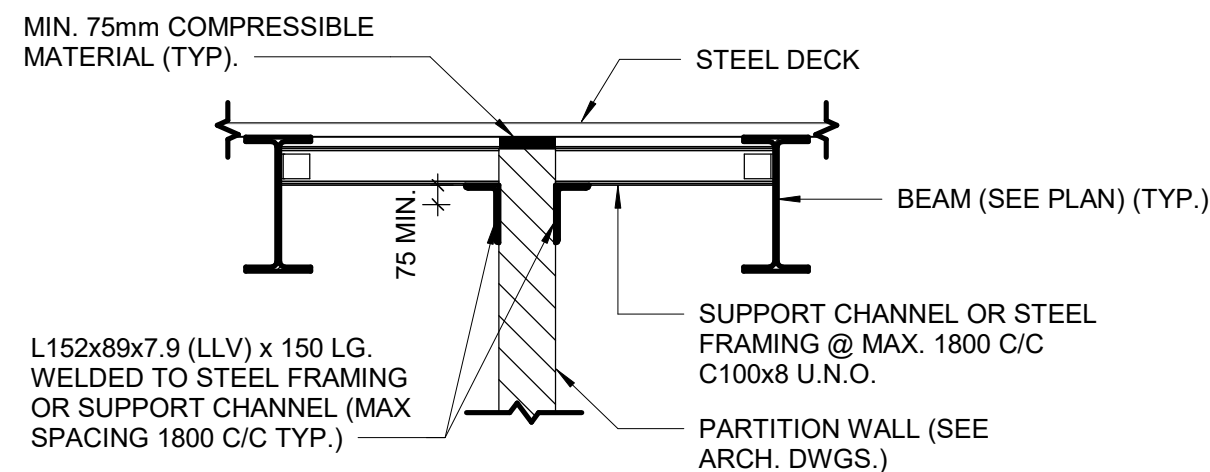


NOTES:  
1. ALL CONNECTIONS TO BE AT FILLED VERTICAL CELLS AT 1200 mm O/C MAXIMUM UNLESS NOTED OTHERWISE.  
2. FIELD WELD ANGLES TO EMBEDDED PLATE.

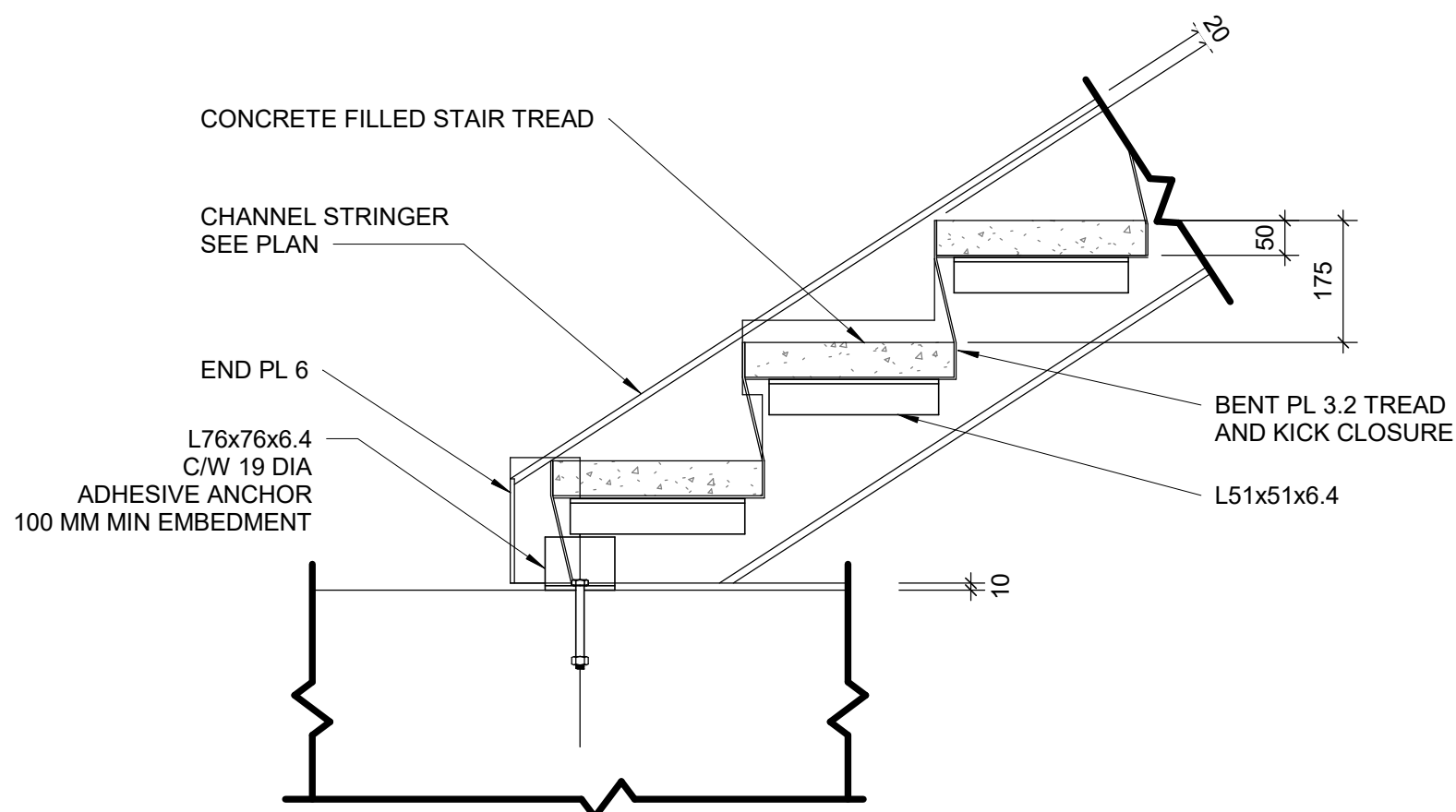
7 SUPPORT DETAIL AT TOP OF BLOCK WALL  
D2200 Scale: 1 : 20



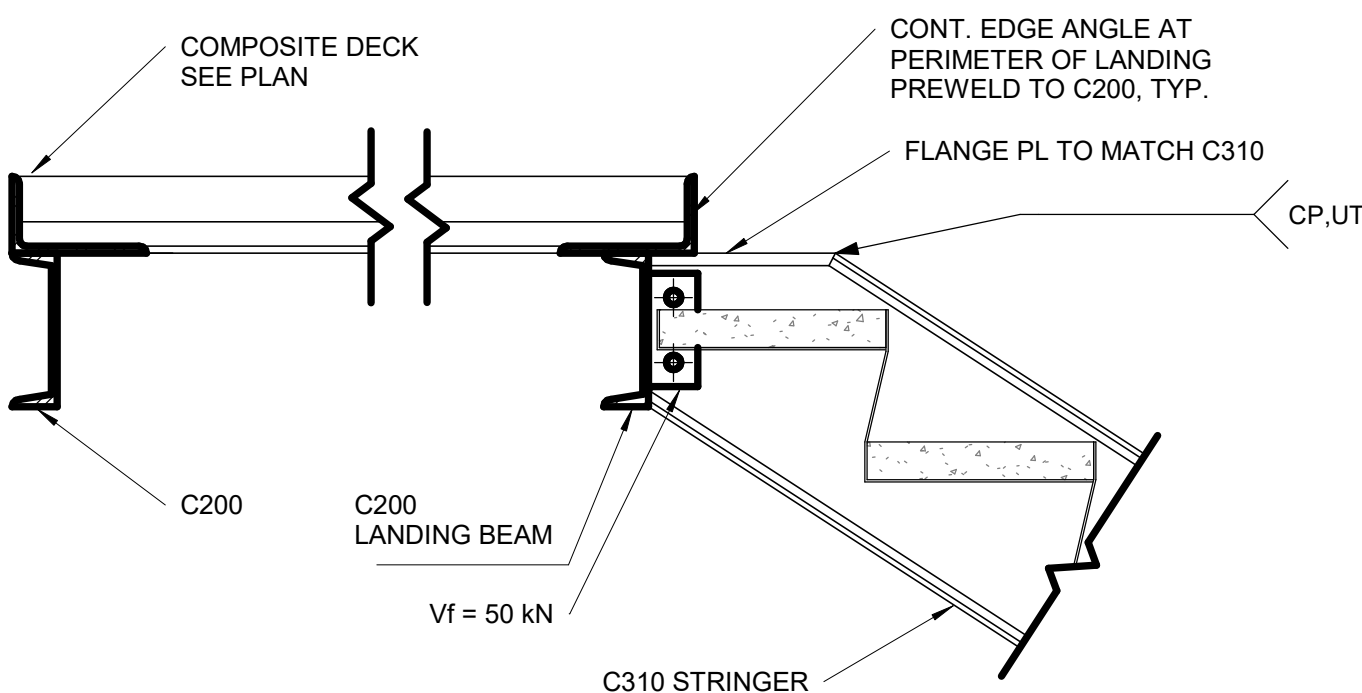
2 PARTITION WALL PARALLEL TO AND CENTERED ON JOIST OR BEAM  
D2200 Scale: 1 : 20



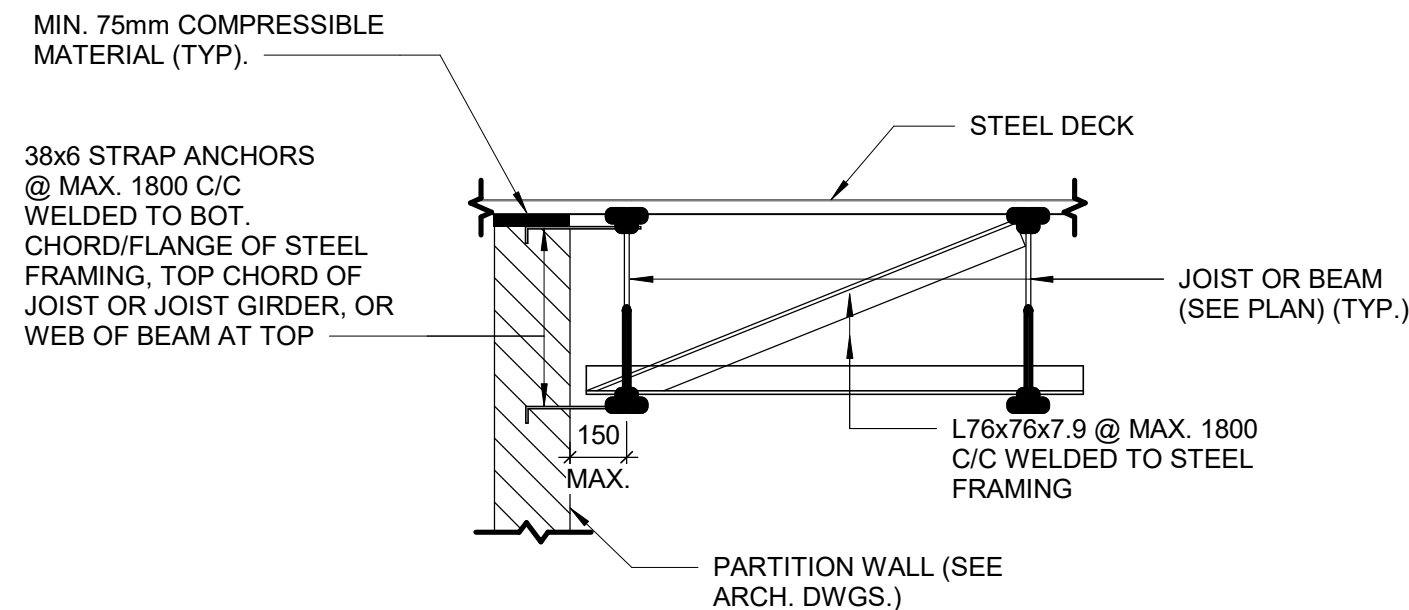
5 PARTITION WALL BETWEEN BEAMS  
D2200 Scale: 1 : 20



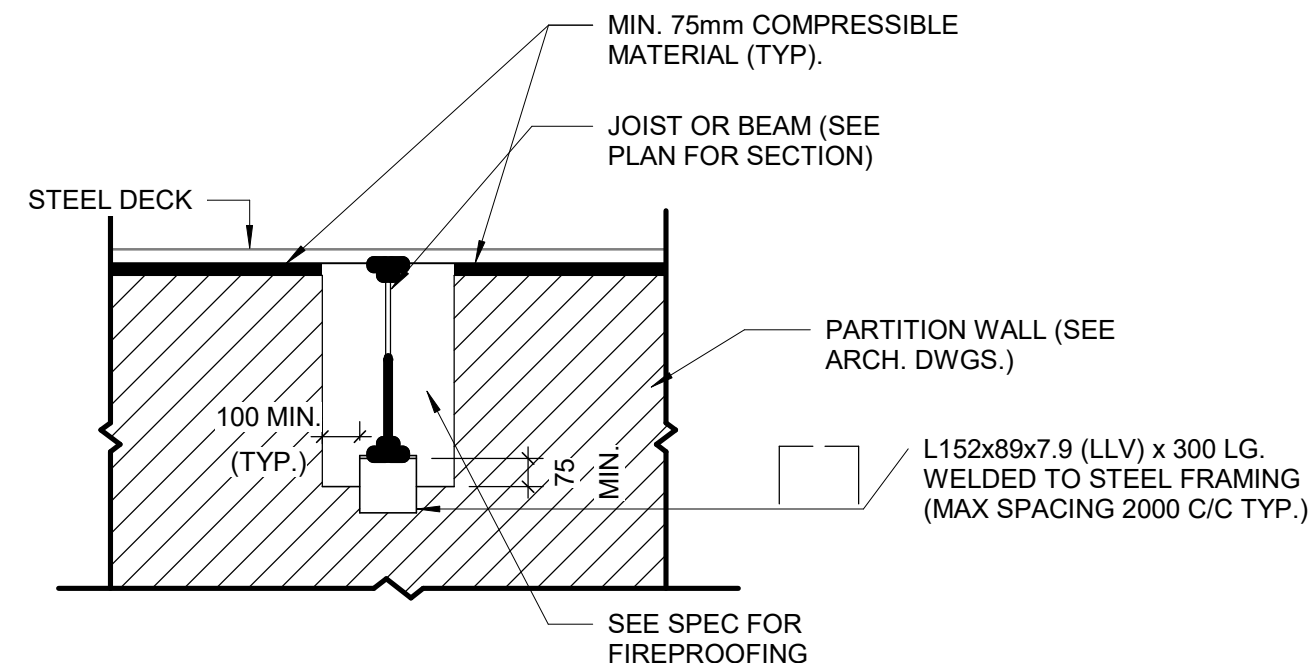
8 TYPICAL SLAB UNDER STRINGER  
D2200 Scale: 1 : 10



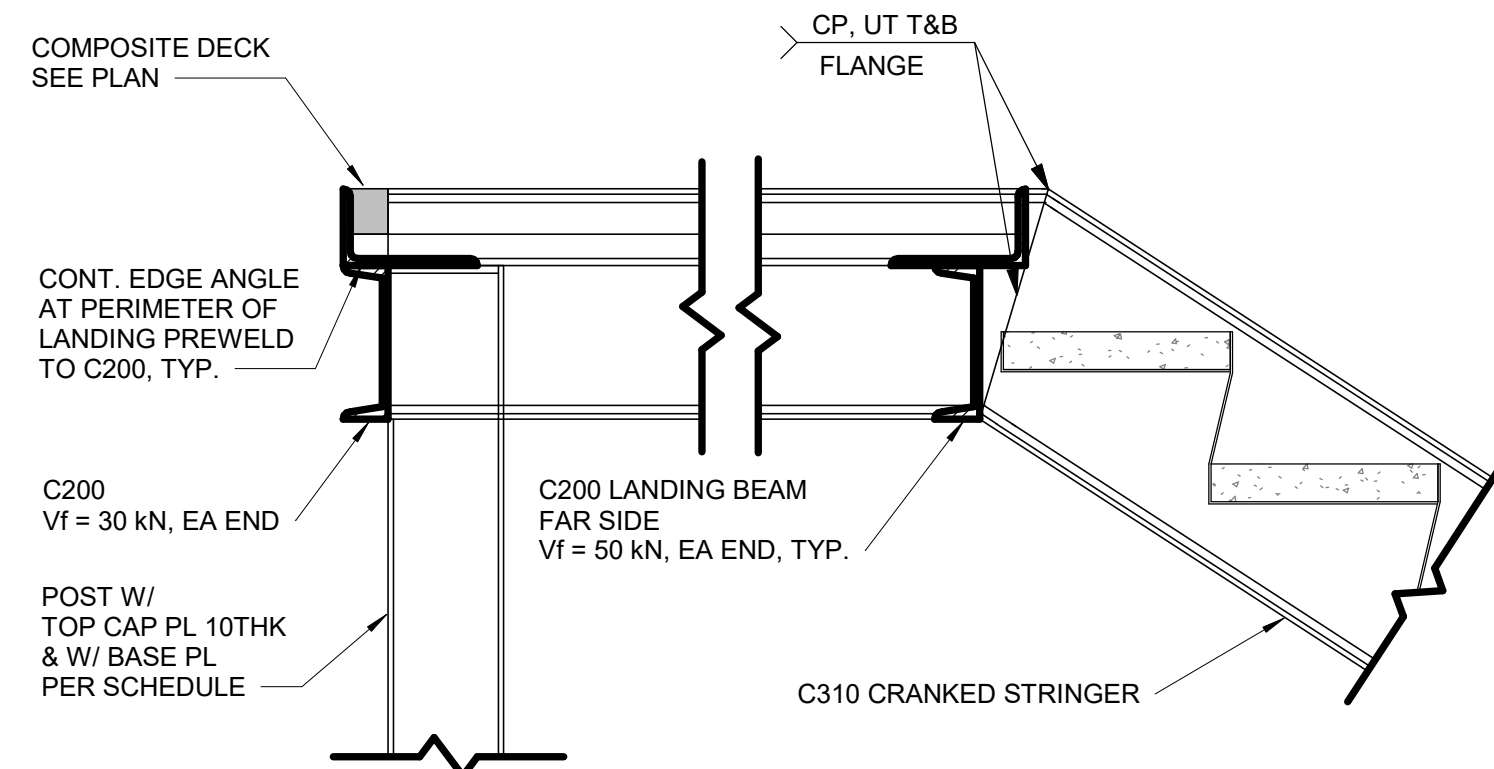
10 TYPICAL SECTION AT UPPER LANDING  
D2200 Scale: 1 : 10



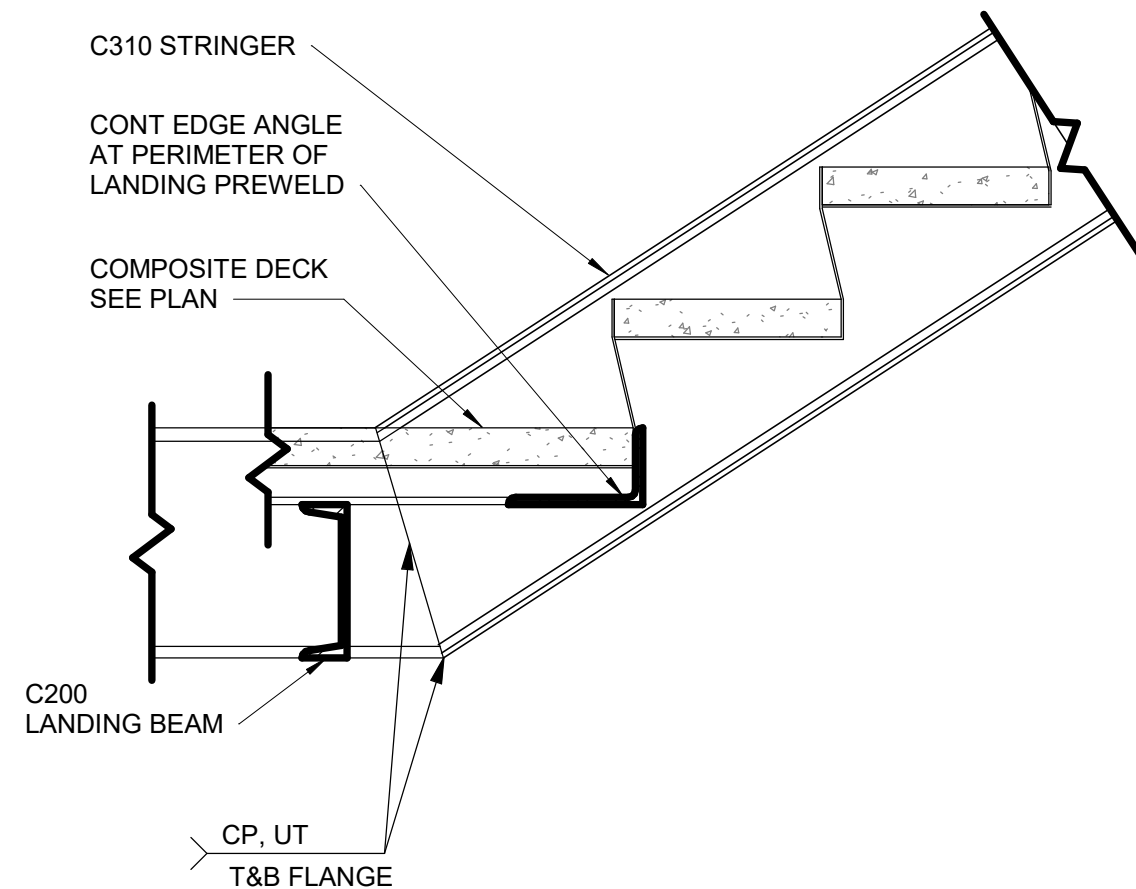
3 PARTITION WALL PARALLEL TO JOISTS OR BEAM  
D2200 Scale: 1 : 20



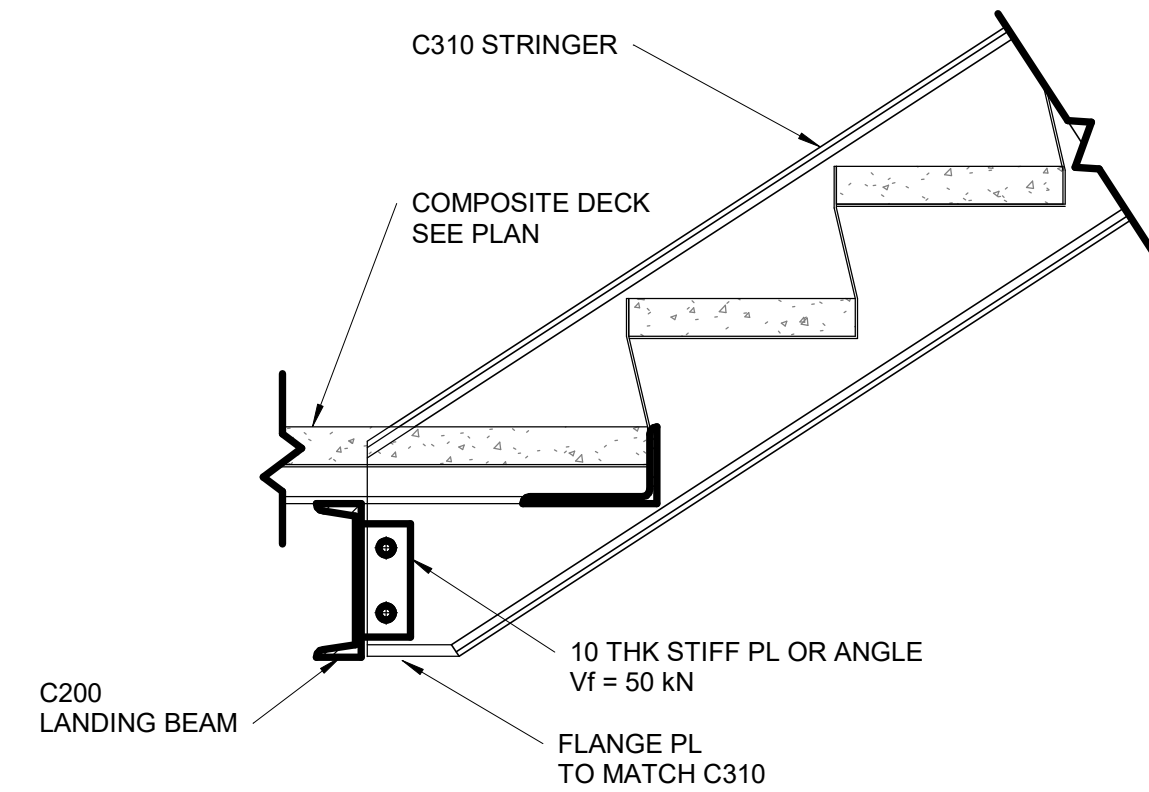
6 PARTITION PERPENDICULAR TO JOIST OR BEAMS  
D2200 Scale: 1 : 20



9 TYPICAL SECTION AT UPPER LANDING STRINGER  
D2200 Scale: 1 : 10



12 TYPICAL SECTION AT LOWER LANDING STRINGER  
D2200 Scale: 1 : 10



11 TYPICAL SECTION AT LOWER LANDING  
D2200 Scale: 1 : 10

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Arcadis Professional Services (Canada) Inc.

ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR PERMIT	2022-03-18
B	100% SUBMISSION	2023-02-17
C	ISSUED FOR REVISED PERMIT/100%	2023-08-31
D	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**N. ABID**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

SHEET TITLE  
**STRUCTURAL STEEL  
DETAILS - 1**

SHEET NUMBER

**G21-GAL-D2200**

ISSUE

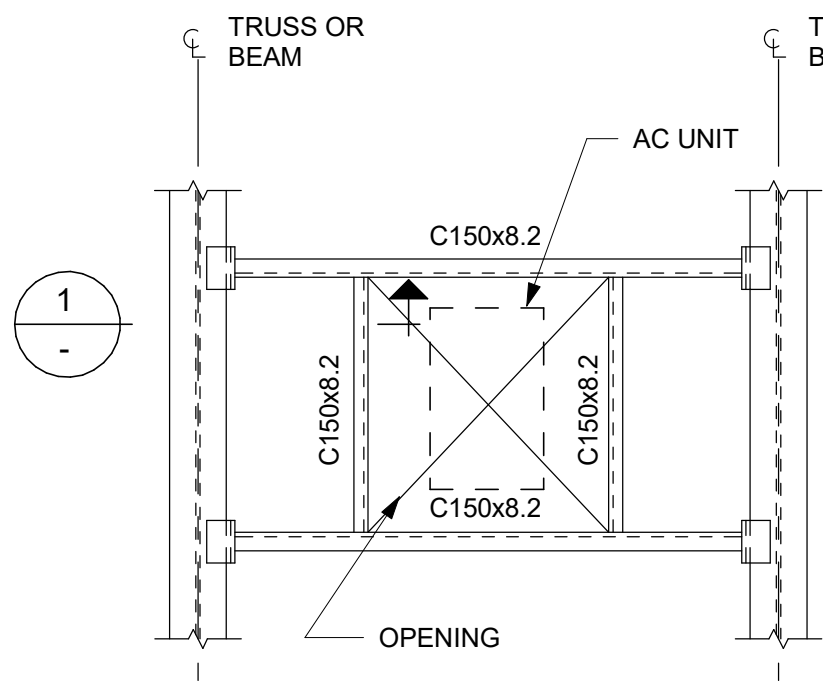
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Autodesk Docs // 122260 - Cot TAU Upgrades R2024122260-TAU-98- 68/Rivada-Details-R20-nt

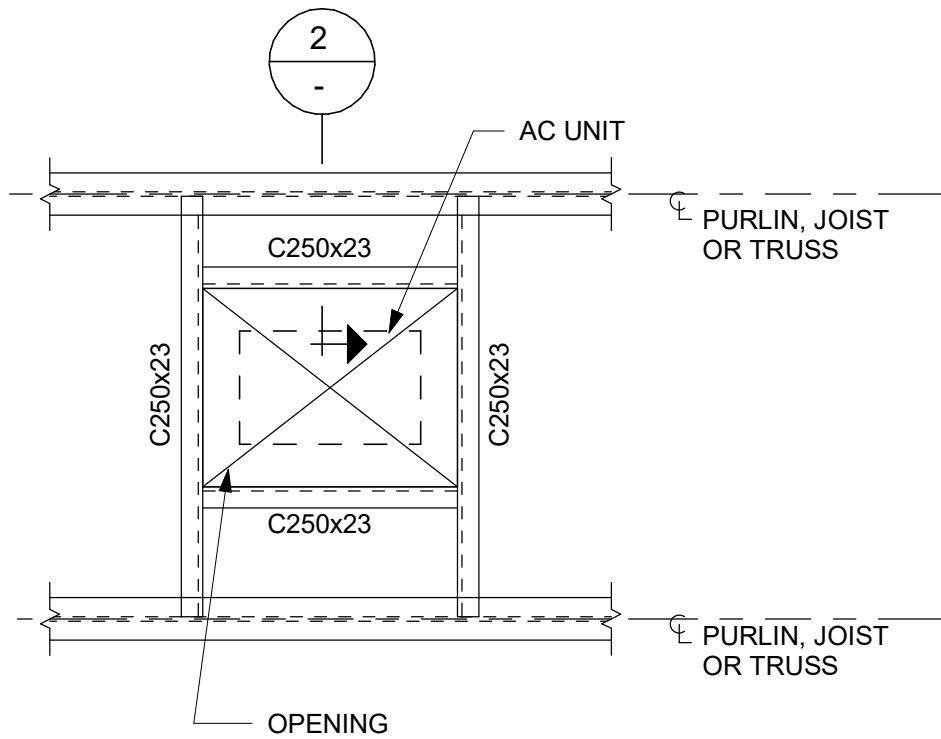
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SCALE CHECK

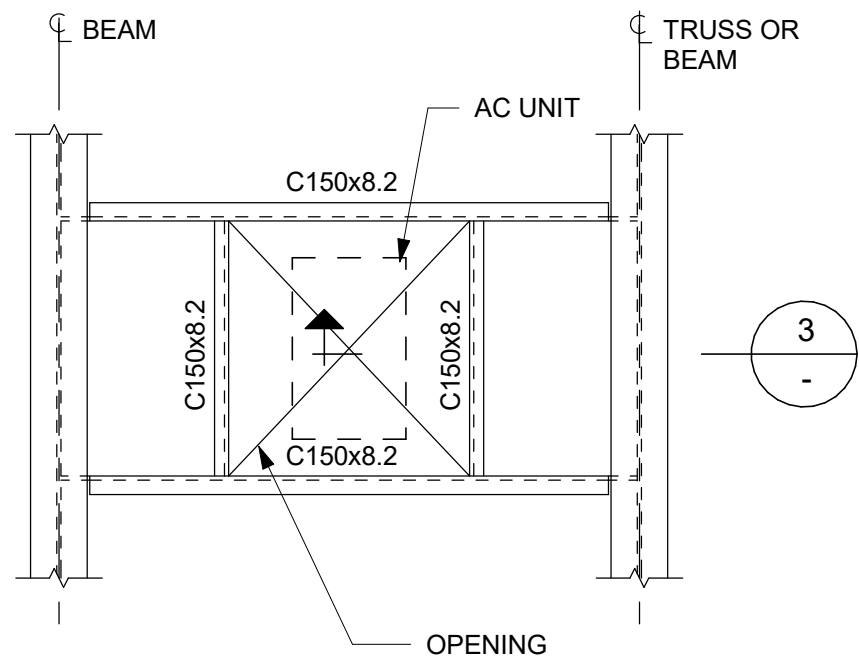
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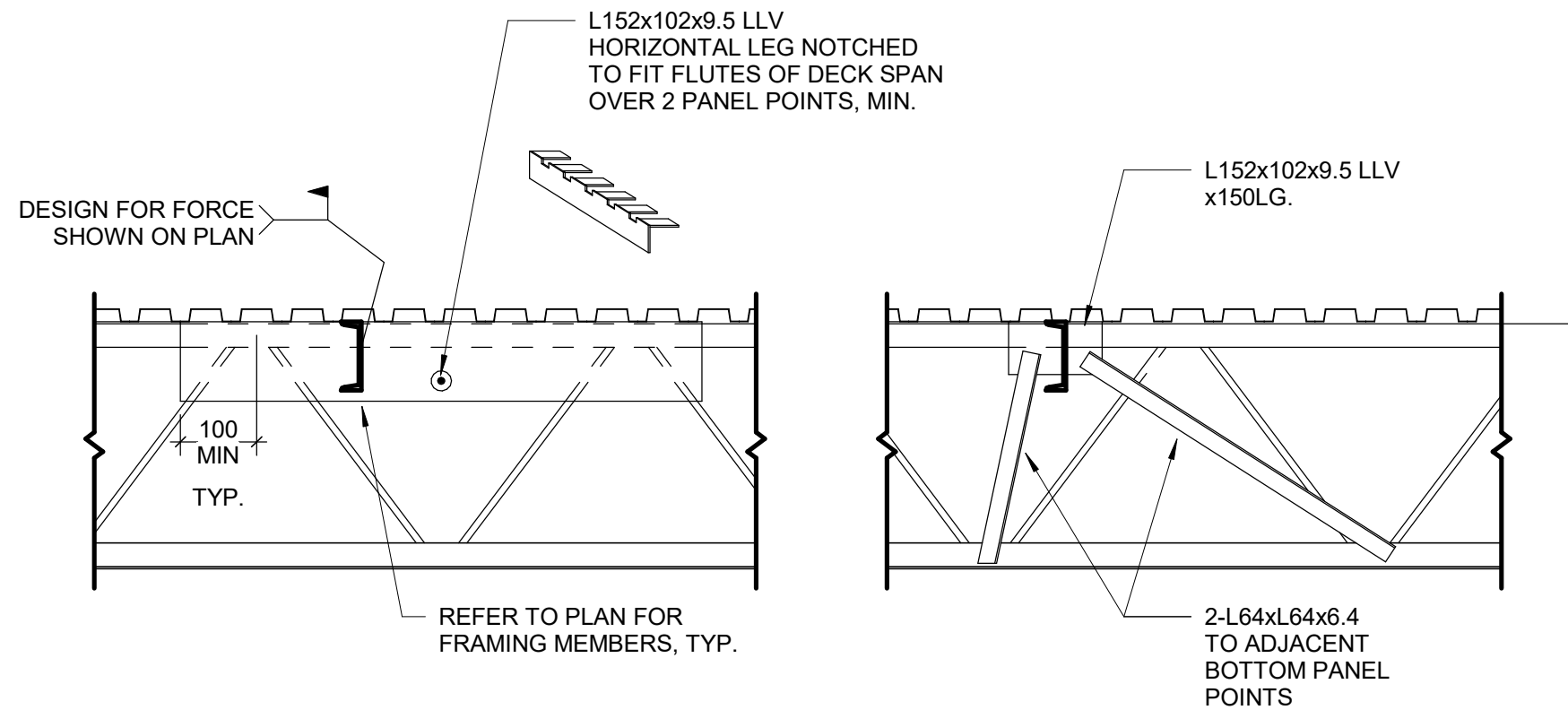
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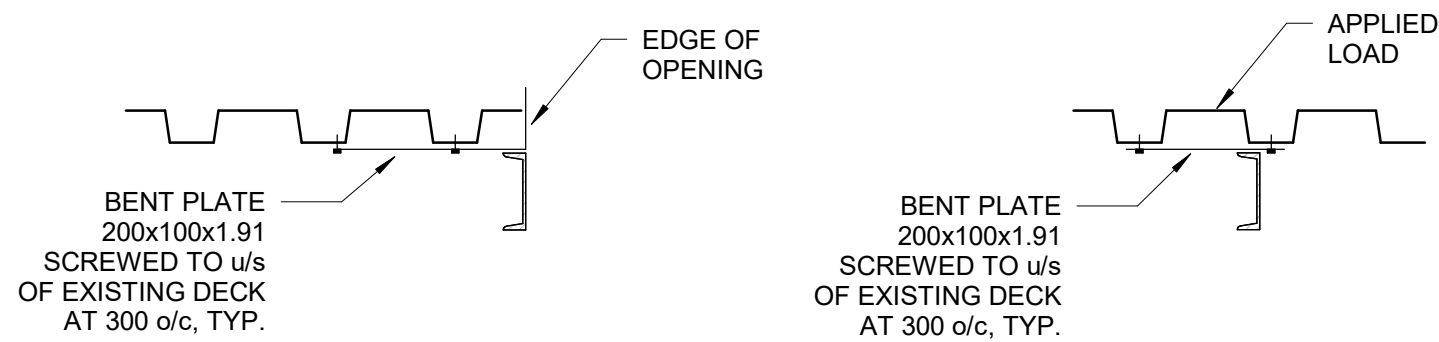
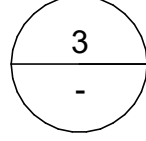
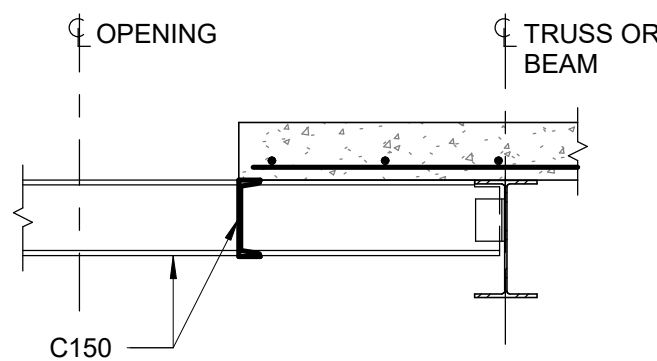
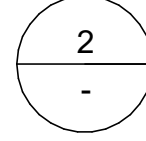
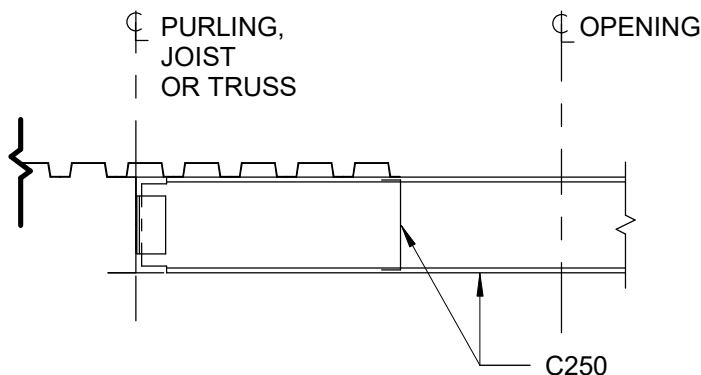
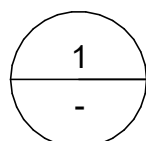
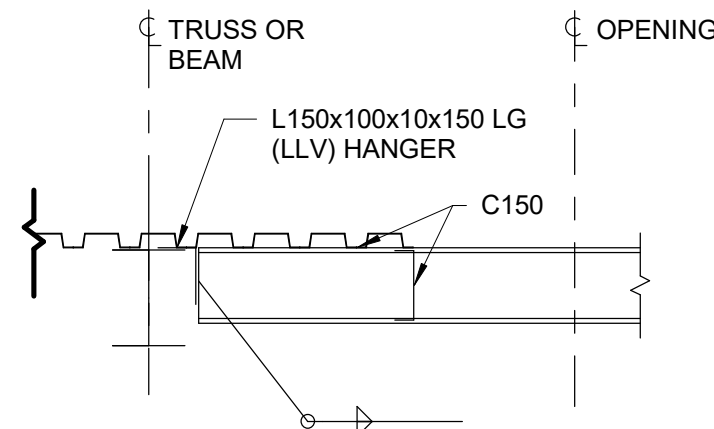
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FRAME TYPE "C"



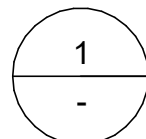
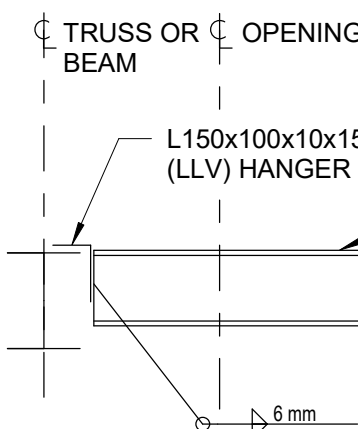
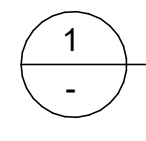
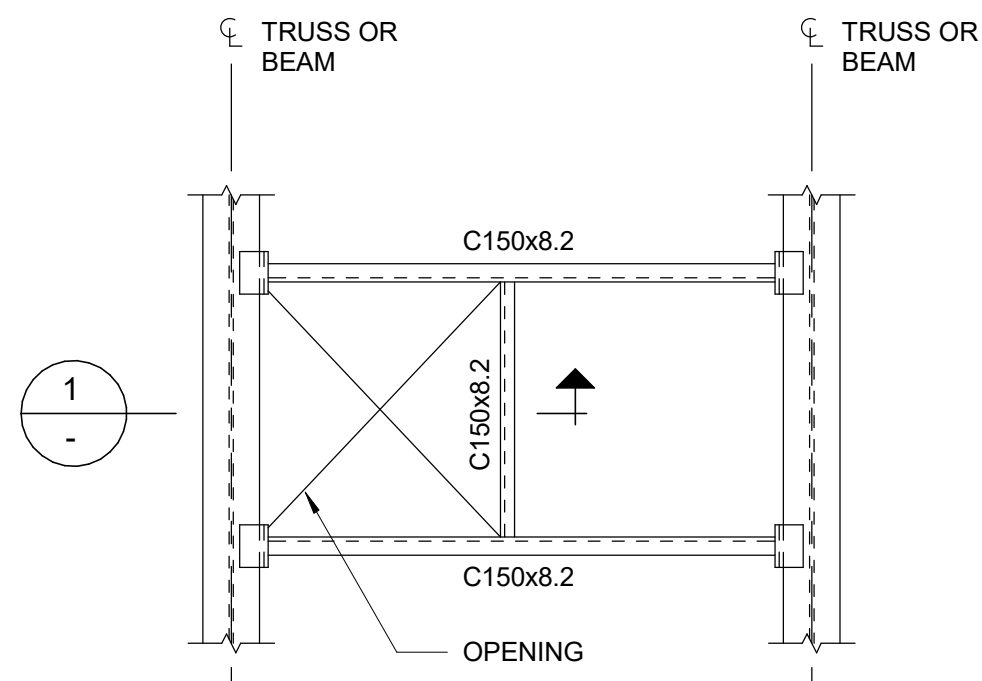
DETAIL AT EXISTING JOIST  
(TWO OPTIONS SHOWN)



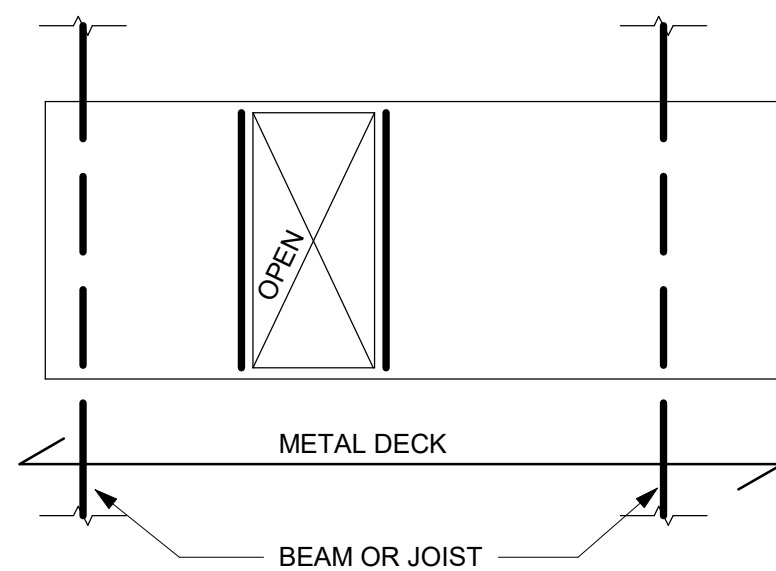
DETAIL AT EXISTING DECK

2 FRAMING INTO EXISTING STEEL JOISTS AND DECK  
D2201 Scale: 1 : 20

1 TYPICAL ROOF OPENING  
D2201 Scale: 1 : 20



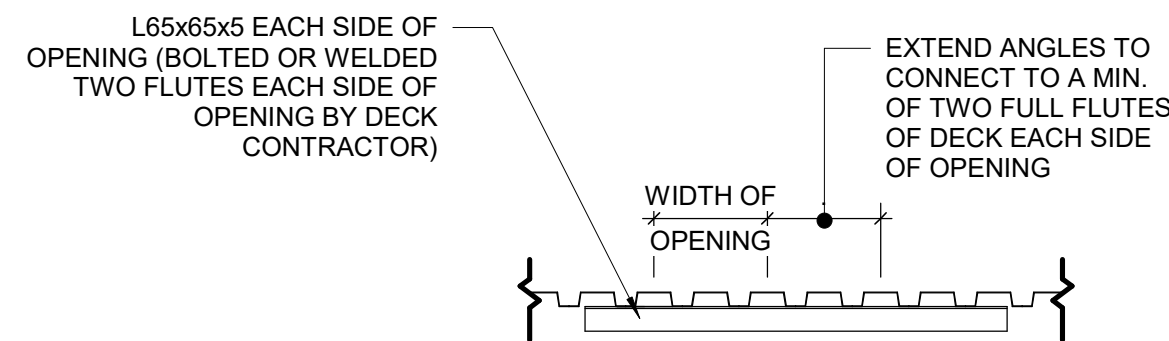
3 TYPICAL ROOF OPENING ADJACENT TO BEAM  
D2201 Scale: 1 : 20



4 OPENINGS IN METAL ROOF DECK  
D2201 Scale: 1 : 20

NOTES:

1. OPENINGS UP TO 150mm SQUARE OR IN DIAMETER AND SPACED A MINIMUM 300mm CLEAR FROM ADJACENT OPENINGS DO NOT REQUIRE REINFORCING.
2. OPENINGS LARGER THEN 150mm, BUT NOT EXCEEDING 450mm, ARE TO BE REINFORCED. SEE DETAIL 7/D2201.
3. OPENINGS LARGER THAN 450mm UP TO MAXIMUM ON DETAIL 1/D2201 1200mm SQUARE ARE TO BE REINFORCED AS SHOWN ABOVE, UNLESS INDICATED OTHERWISE ON PLAN.
4. CONNECT FRAMING FOR A MINIMUM END REACTION OF 10kN.



5 METAL DECK OPENINGS 200 TO 360 WIDE  
D2201 Scale: 1 : 20

ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR PERMIT	2022-03-18
B	100% SUBMISSION	2023-02-17
C	ISSUED FOR REVISED PERMIT/100%	2023-08-31
D	ISSUED FOR TENDER	2025-09-05

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PROJECT NO:  
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**G. POULOU**

CHECKED BY:  
**N. ABID**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

SHEET TITLE  
**STRUCTURAL STEEL  
DETAILS - 2**

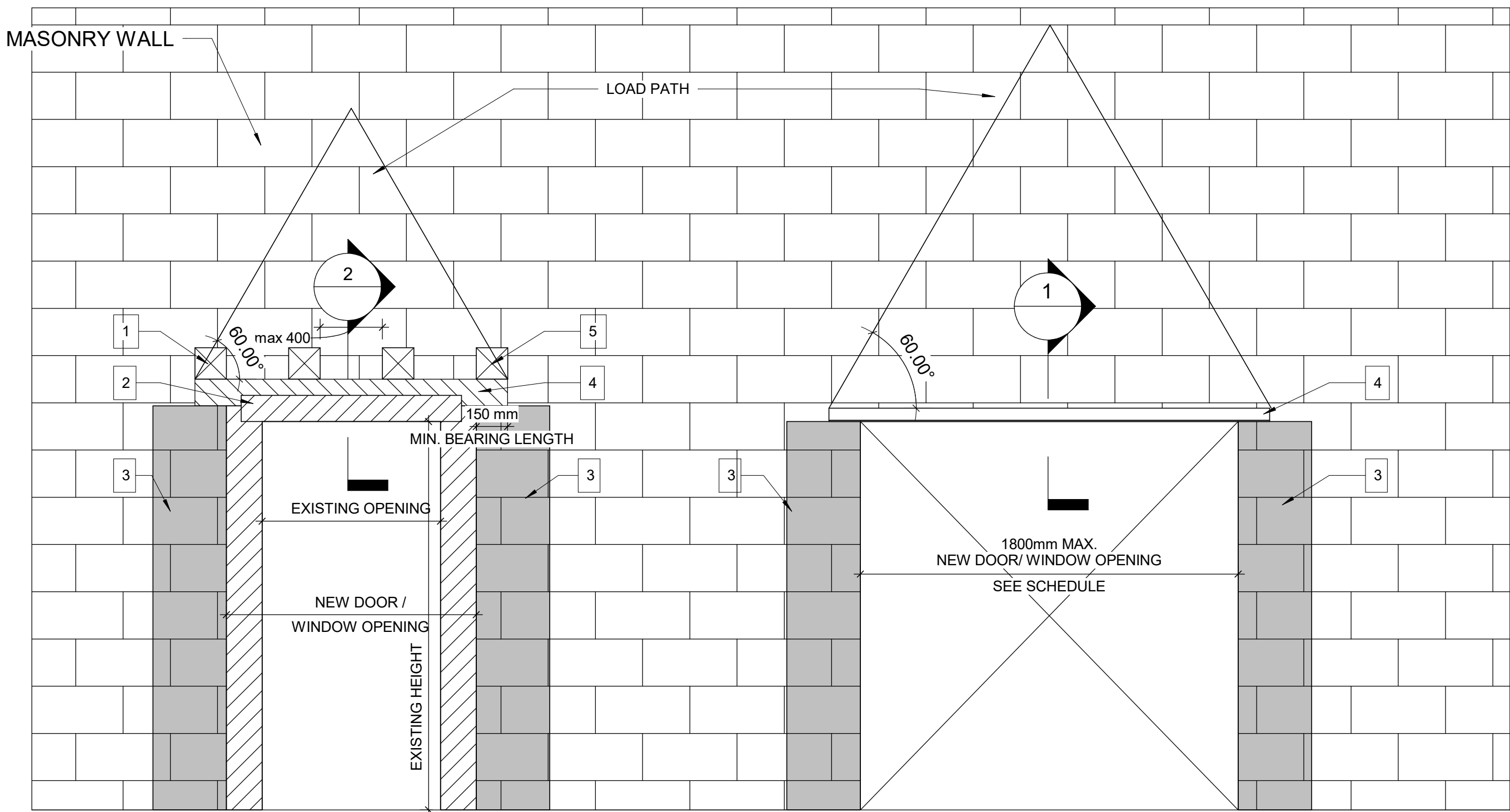
SHEET NUMBER

**G21-GAL-D2201**

ISSUE

**D**





### WIDENING AN EXISTING OPENING IN EXISTING MASONRY WALL TYP.

#### PROPOSED SEQUENCE OF WORK

1	CREATE NEW 150x150mm HOLES @ 400mm INTO EXISTING MASONRY WALL AND SHORE THE WALL ABOVE, SEE DETAIL 1. OR SHORE THE WALL ABOVE BY USING 2 CHANNELS BACK TO BACK AND THROUGH BOLTS @350mm, SEE DETAIL 2
2	DEMOLISH THE EXISTING LINTEL, THE VOID FOR NEW BEAM AND THE WALL FROM EACH SIDE OF THE NEW OPENING
3	FILL TWO CORES MIN. OF EXISTING MASONRY WALL WITH GROUT EACH SIDE OF THE NEW OPENING, (DRILL HOLES TOP AND BOTTOM OF EACH CORE, INJECT GROUT, CLOSE HOLES WITH MORTAR AND MAKE GOOD SURFACE)
4	INSTALL NEW LINTEL. SEE LINTEL SCHEDULE FOR LINTEL SIZE
5	ADD MASONRY FACES AT LINTEL AND REPAIR MASONRY COURSE

### NEW DOOR/WINDOW OPENING INTO EXISTING MASONRY WALL TYP.

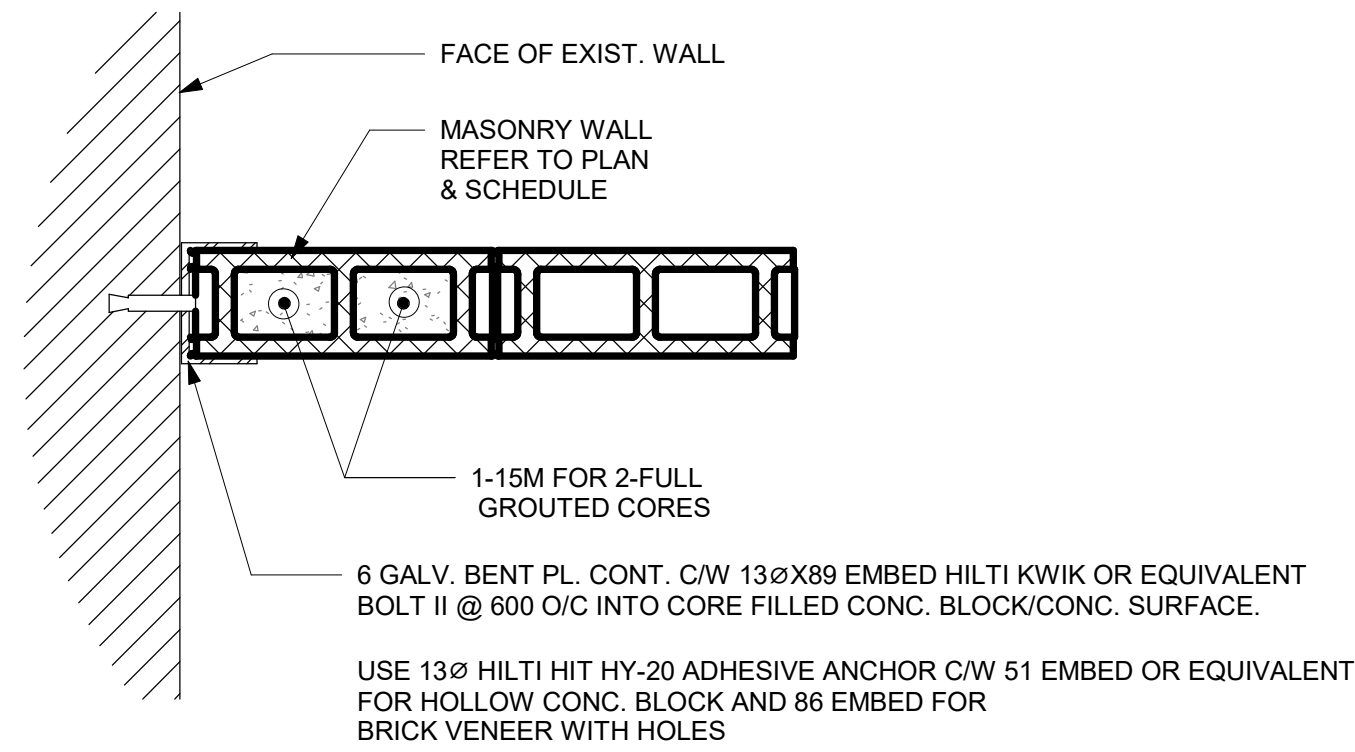
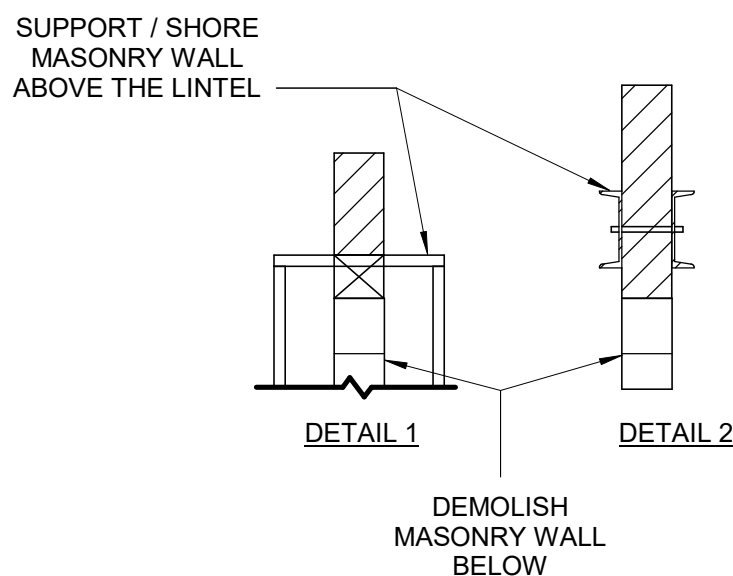
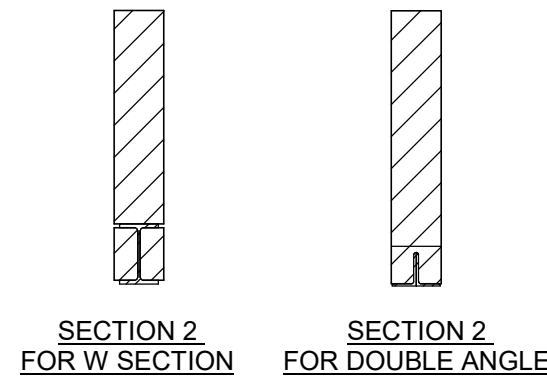
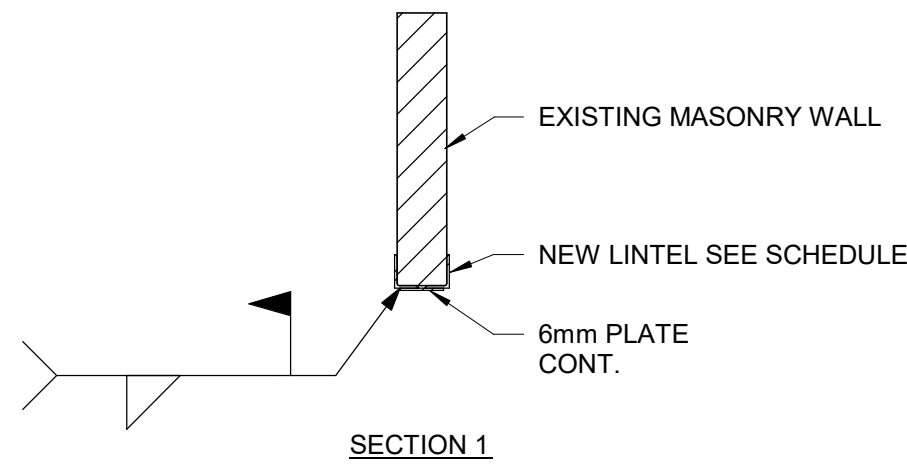
#### LINTEL:

OVER ALL OPENINGS IN MASONRY WALLS PROVIDE THE FOLLOWING LINTELS.  
UNLESS OTHERWISE SHOWN.

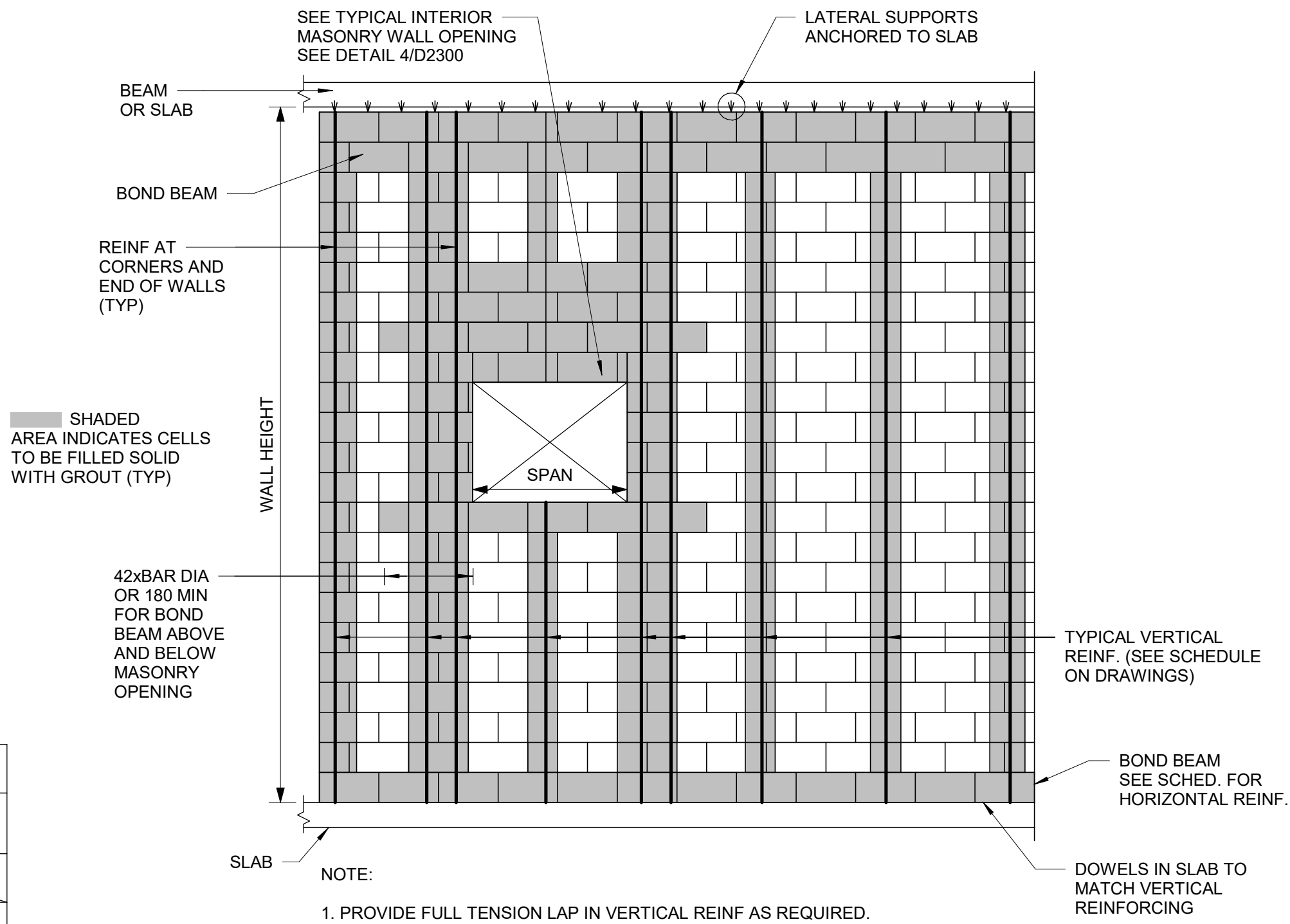
#### STEEL LINTELS

CLEAR SPAN mm (ft-in)	140 (6") WALL	190 (8") WALL	240 (10") WALL	290 (12") WALL	350 WALL	430 WALL
UP TO 1200 (4'-0")	L127x127x7.9	2-L89x89x7.9 +170x6mm PL	L89x89x7.9 +L127x89x7.9 LLV +220x6mm PL	3-L89x89x7.9 +270x6mm PL	3-L127X89X7.9 (LLV)	3-L127X127X7.9 +410X6mm PL
1201 TO 1800 (4'-0 - 6'-)	2-L89x64x6.4LLV	2-L127x89x7.9LLV	L127x89x7.9LLV +L127x127x7.9	3-L127x89x7.9LLV		
1801 TO 3100 (6'- 10")	2-L89x64x9.5LLV	2-L152x89x9.5LLV	2-L152x89x9.5LLV	3-L152x89x9.5LLV		

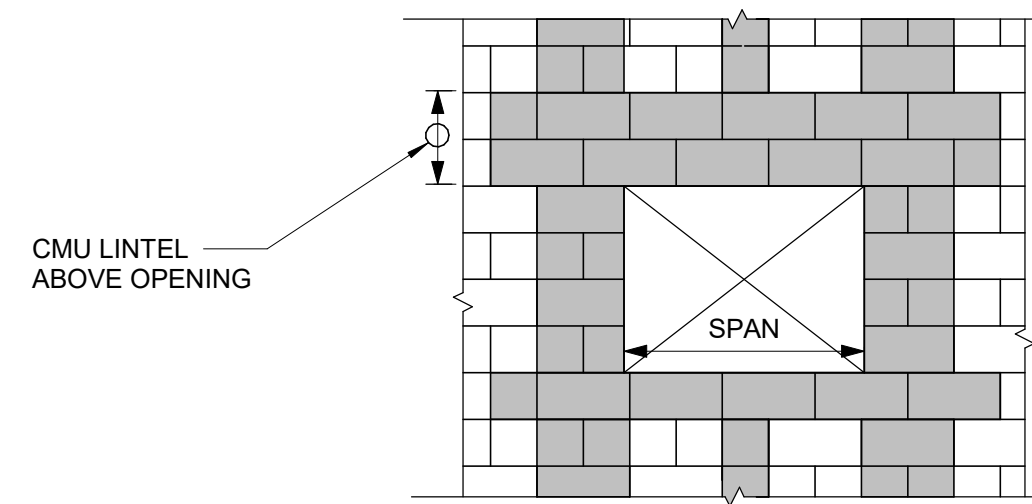
- TO INSTALL A LINTEL TO THE EXISTING BLOCK WALL FOR A NEW OPENING, CUT A GROOVE THROUGH THE EXISTING BLOCK WALL AT THE TOP OF THE NEW OPENING AND INSTALL THE ANGLE FROM ONE SIDE OF THE WALL FOR SINGLE ANGLE OR FROM BOTH SIDES OF THE WALL FOR DOUBLE ANGLE AND THEN CUT THE OPENING.
- MINIMUM BEARING FOR STEEL LINTELS SHALL BE 150mm
- ALL STEEL LINTELS AND SHELF ANGLES IN THE EXTERIOR MASONRY SHALL BE HOT DIP GALVANIZED
- THESE LINTELS ARE FOR NON-LOAD BEARING WALLS. VERIFY THE WALLS DO NOT SUPPORT FLOOR OR ROOF FRAMING. DO NOT IN LOAD BEARING WALLS UNLESS REVIEWED BY THE CONSULT.
- VERIFY THE FOLLOWING:
  - I) NO CONTROL OR MOVEMENT JOINTS ABOVE THE LINTEL AND/OR BEYOND THE OPENING.
  - II) WALL EXTENDS MINIMUM 50% OF SPAN (AND 50% OF OPENING HEIGHT) BEYOND THE OPENING.
  - III) WALL EXTENDS MINIMUM 70% OF SPAN ABOVE THE OPENING.
- STRENGTHEN BEARING POINTS TO FOUNDATION, OR 400 DEEP WHEN SPAN BELOW 3600, GROUT CMU OR STONE MASONRY. BRICK IN AND GROUT VOIDS IN MULTI-WY THE BRICK, REPORT MORTAR JOINTS.
- DRYPACK WITH NON-SHRINK GROUT WHERE NECESSARY TO ACHIEVE UNIFORM BEARING THROUGHOUT. ENSURE EVEN BEARING BELOW LINTEL ENDS.
- SEE GENERAL NOTES FOR OTHER REQUIREMENTS (i.e. GROUT BEARING POINTS).
- HOT-DIP GALVANIZE LINTELS IN EXTERIOR WALLS EXPOSED TO WEATHER.
- SEE ARCH FOR STEEL FIRE PROTECTION.
- DOUBLE BEARING LENGTH FOR SOFT OR MEDIUM BRICK IN LIME MORTAR, AND FOR RUBBLE STONE IN LIME MORTAR OR LIME AND CEMENT MORTAR.



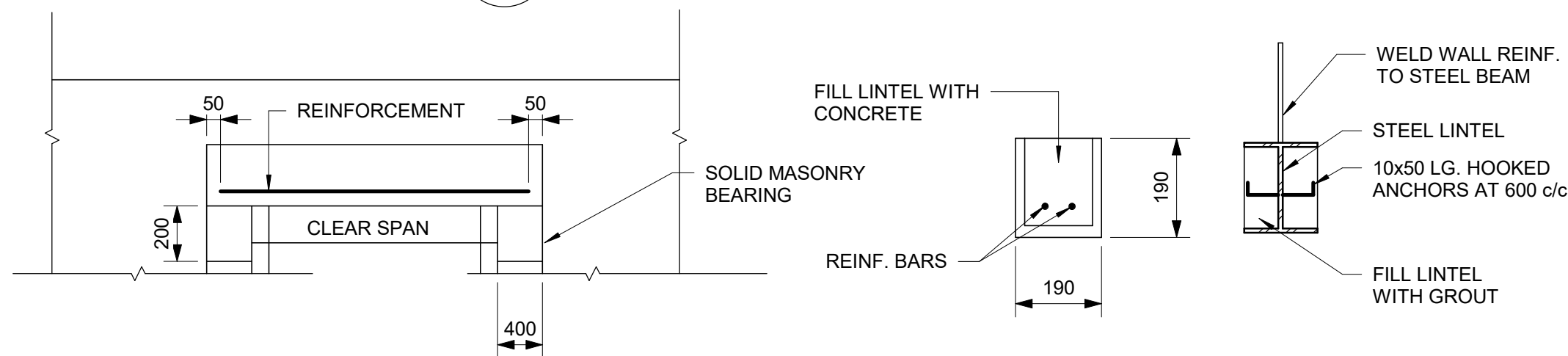
2 TYPICAL CMU WALL CONNECTION TO EXISTING WALL  
D2300 Scale: 1 : 10



3 TYPICAL NEW MASONRY WALL DETAILS  
D2300 Scale: 1 : 20



4 OPENING IN NEW MASONRY WALL  
D2300 Scale: 1 : 20



- NOTES:
- BLOCKS ABOVE LINTELS TO BE FILLED SOLID WITH GROUT FOR HEIGHT EQUAL TO SPAN.
  - SHORE LINTELS UNTIL GROUT REACHES DESIGN STRENGTH.
  - FOR STEEL LINTELS PROVIDE STEEL PACKING PLATES TO ENSURE EVEN BEARING.
  - EXTERIOR STEEL LINTELS SHALL BE HOT DIP GALVANIZED.

5 MASONRY LINTELS FOR NON LOAD BEARING WALLS  
D2300 Scale: 1 : 20

1 WIDENING MASONRY WALL OPENING OR NEW OPENING IN EXISTING MASONRY WALL  
D2300 Scale: 1 : 20

ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR PERMIT	2022-03-18
B	100% SUBMISSION	2023-02-17
C	ISSUED FOR REVISED PERMIT/100%	2023-08-31
D	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
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ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**N. ABID**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

SHEET TITLE  
**MASONRY DETAILS**

SHEET NUMBER

**G21-GAL-D2300**

ISSUE

**C**

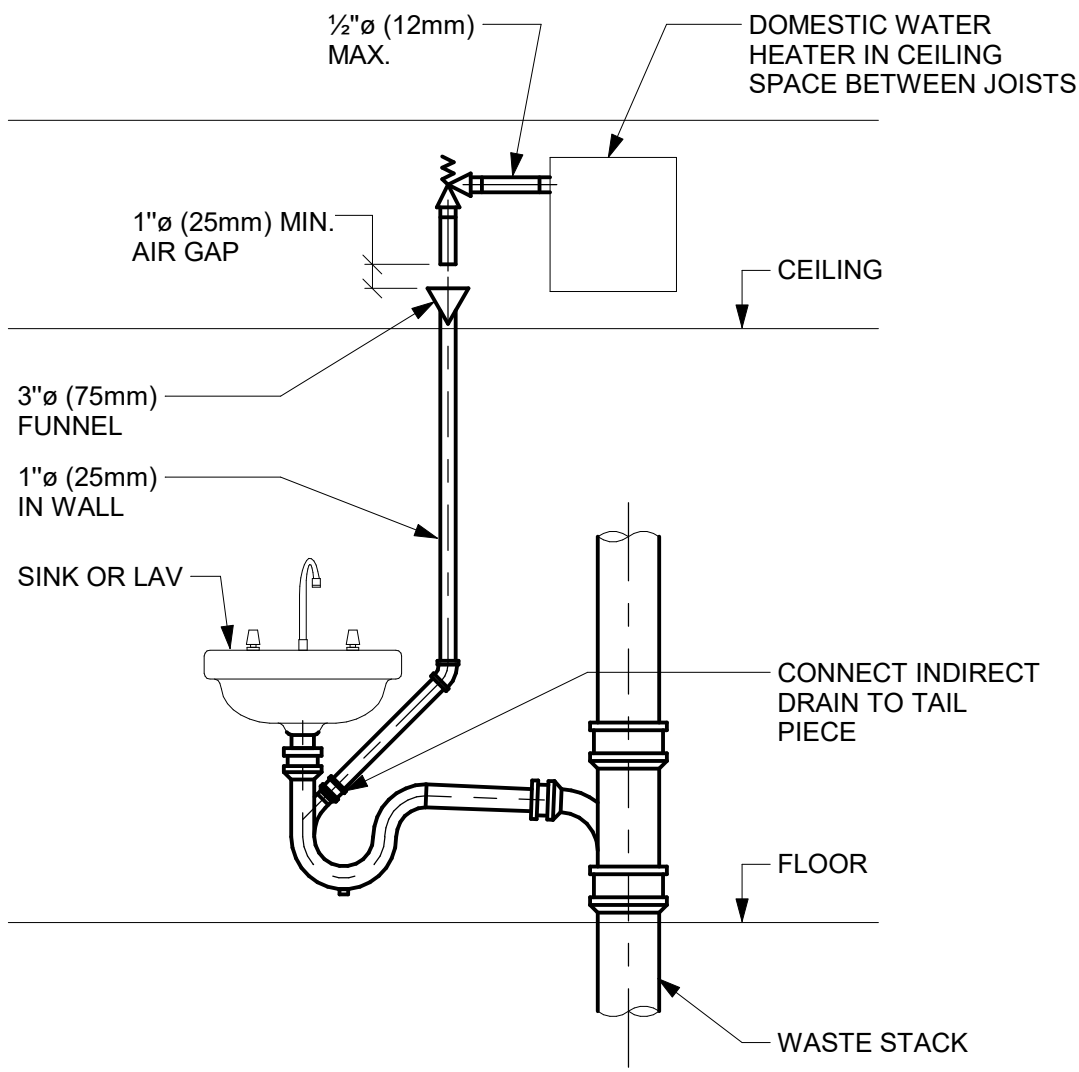
PLUMBING FIXTURE SCHEDULE

DESCRIPTION	SERVICES				REMARKS
	CW	HW	WASTE	VENT	
WATER CLOSET (FLUSH VALVE)	25	-	75	40	
WATER CLOSET (FLUSH TANK)	12	-	75	40	
URINAL (FLUSH VALVE)	20	-	50	40	
URINAL (FLUSH TANK)	12	-	40	32	
LAVATORY	12	12	32	32	
SHOWER	12	12	75	32	
SERVICE SINK	12	12	75	40	
DRINKING FOUNTAIN	12	-	32	32	
SINKS	12	12	40	32	
GROUP WASH FOUNTAIN	25	25	40	40	

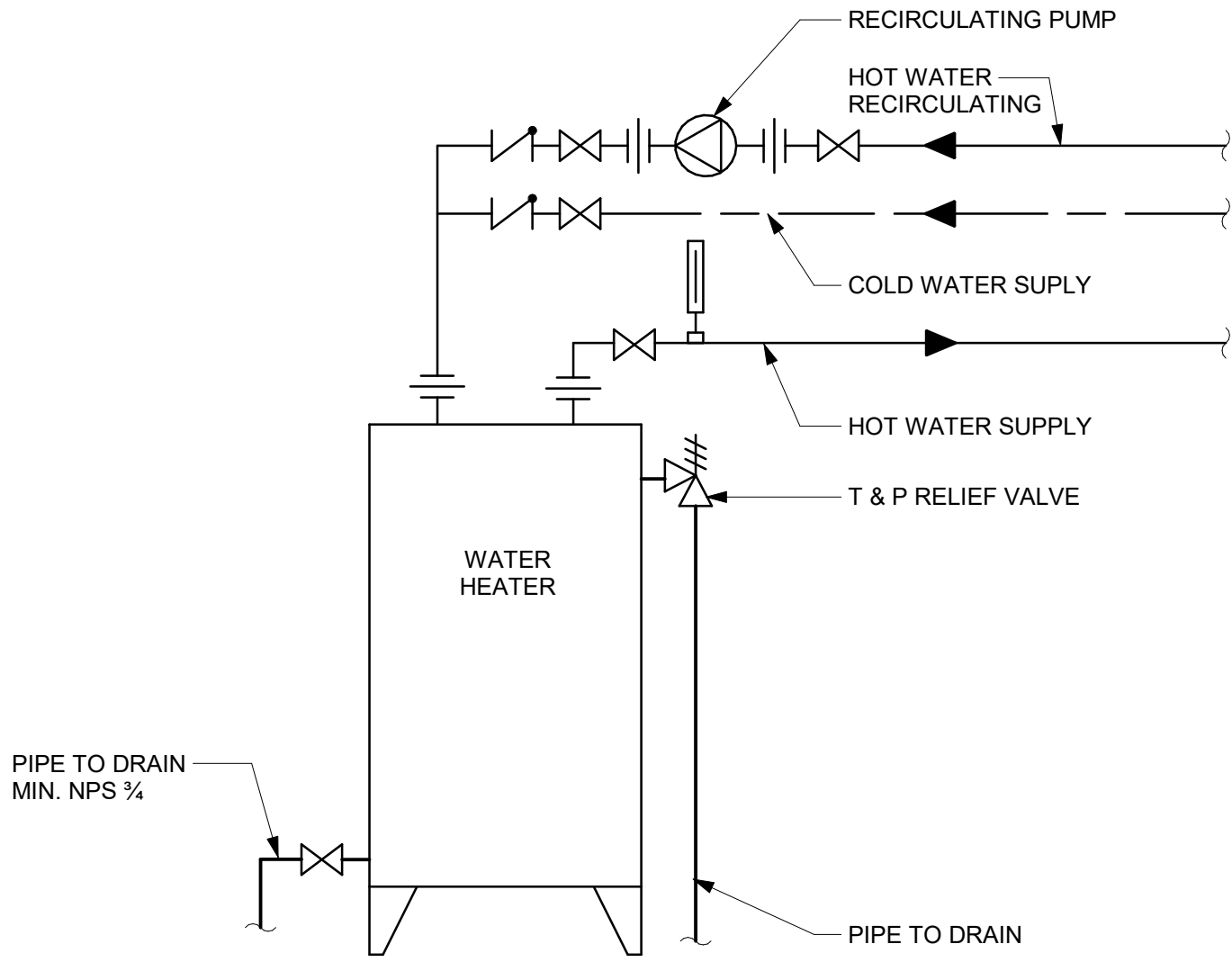
NOTES:

- SIZING OF SUPPLIES INSIDE WASHROOM TO BE BASED ON 35 KPa PRESSURE DROP PER 30m OF PIPE OR MAXIMUM VELOCITY OF 1.2 mps.
- CONTRACTOR SHALL PROVIDE SHOP DRAWING OF PLUMBING AND DRAINAGE INSIDE WASHROOM AREA FOR ALL WASHROOMS.

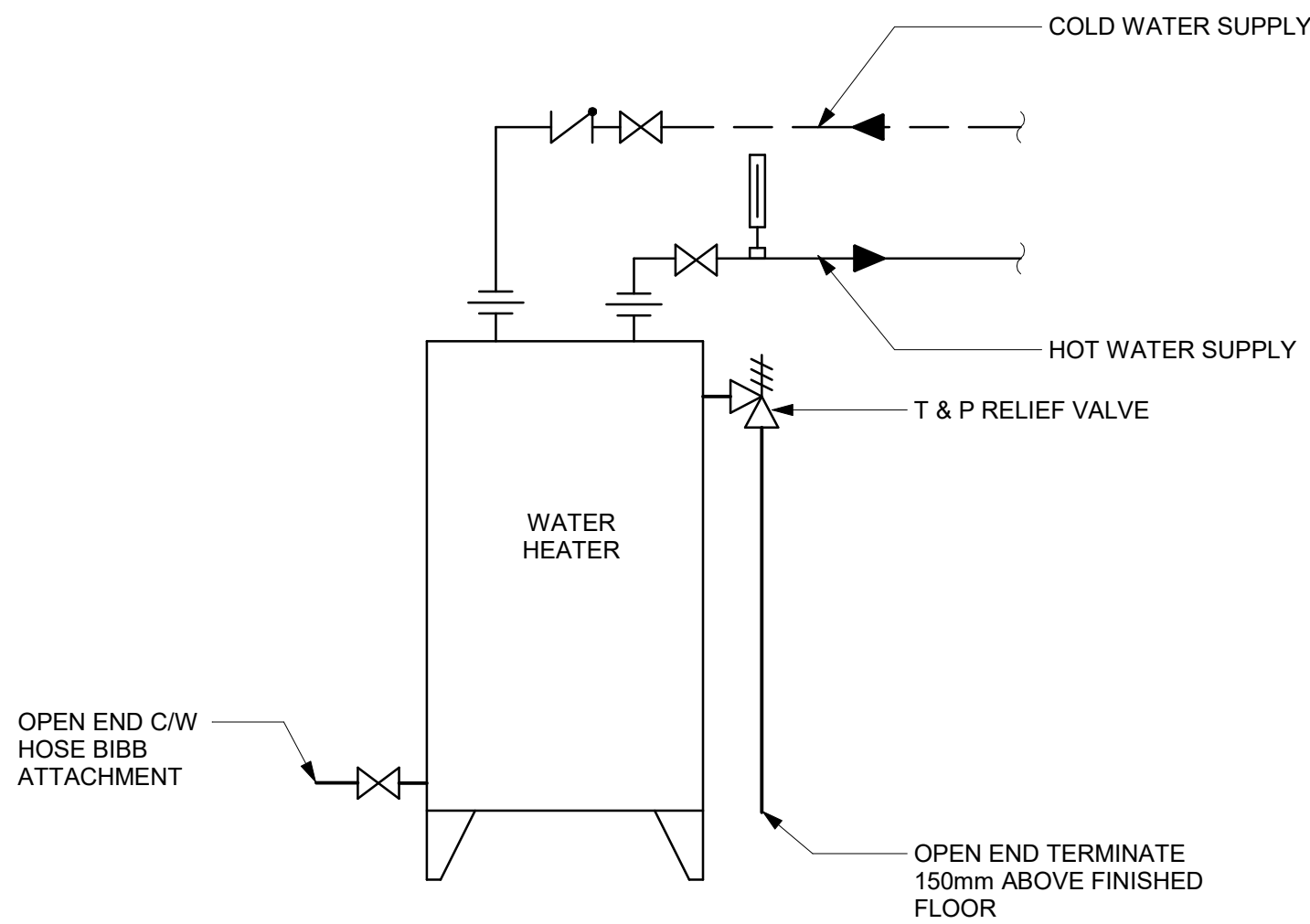
1 PLUMBING FIXTURE SCHEDULE  
Scale: N.T.S.



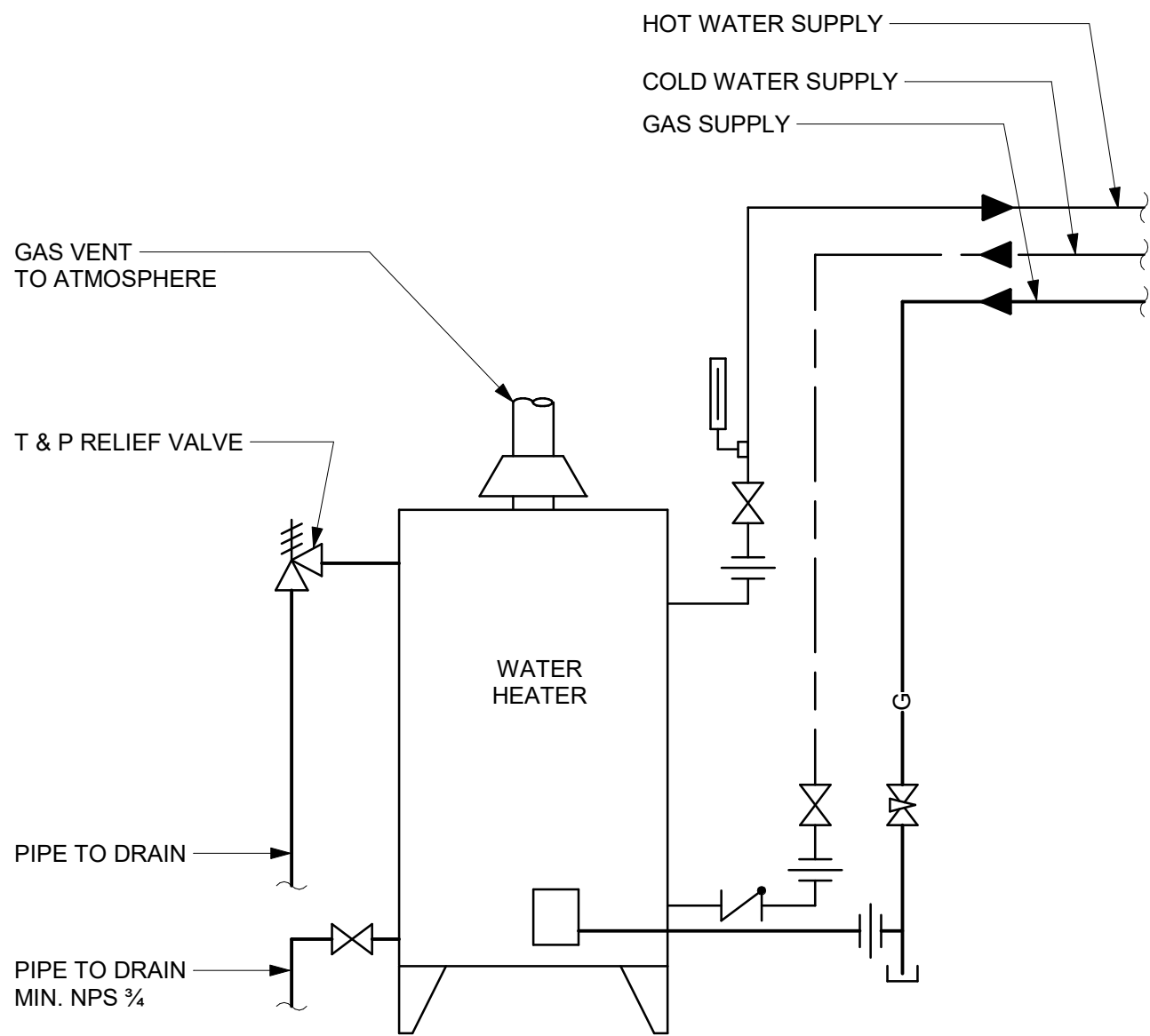
2 INDIRECT WASTE FROM OVERHEAD DWH RELIEF VALVE  
Scale: N.T.S.



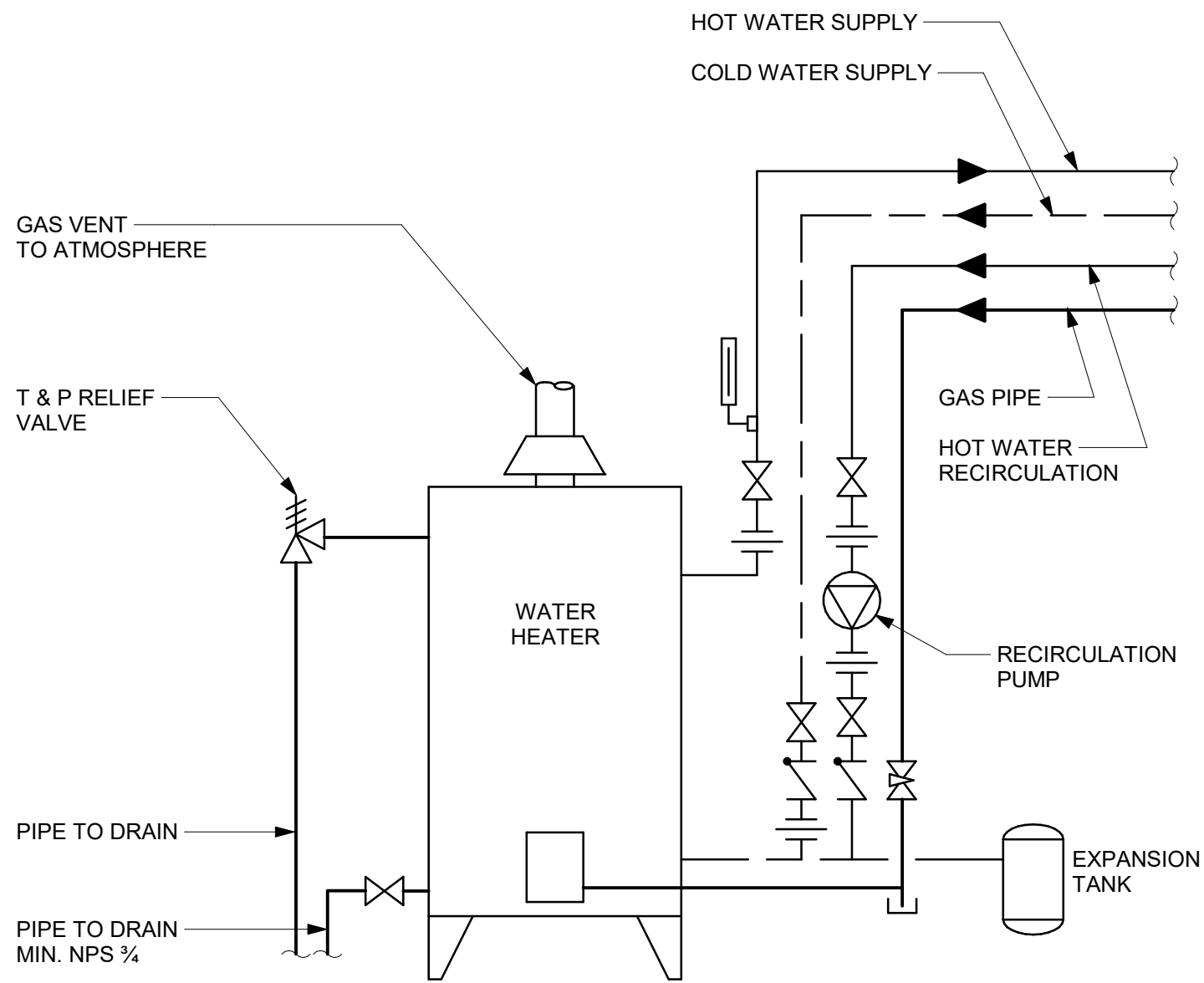
3 DOMESTIC WATER HEATER ELECTRIC WITH RECIRCULATION  
Scale: N.T.S.



4 DOMESTIC WATER HEATER ELECTRIC - NO RECIRCULATION  
Scale: N.T.S.



5 DOMESTIC WATER HEATER GAS FIRED - NO RECIRCULATION  
Scale: N.T.S.



6 DOMESTIC WATER HEATER GAS FIRED WITH RECIRCULATION  
Scale: N.T.S.

ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR REVISED 100%	2024-04-30
D	ISSUED FOR REVISED PERMIT	2024-06-14
E	ISSUED FOR TENDER	2025-09-08

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ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

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9119- 19- 0162 / IBI 122260

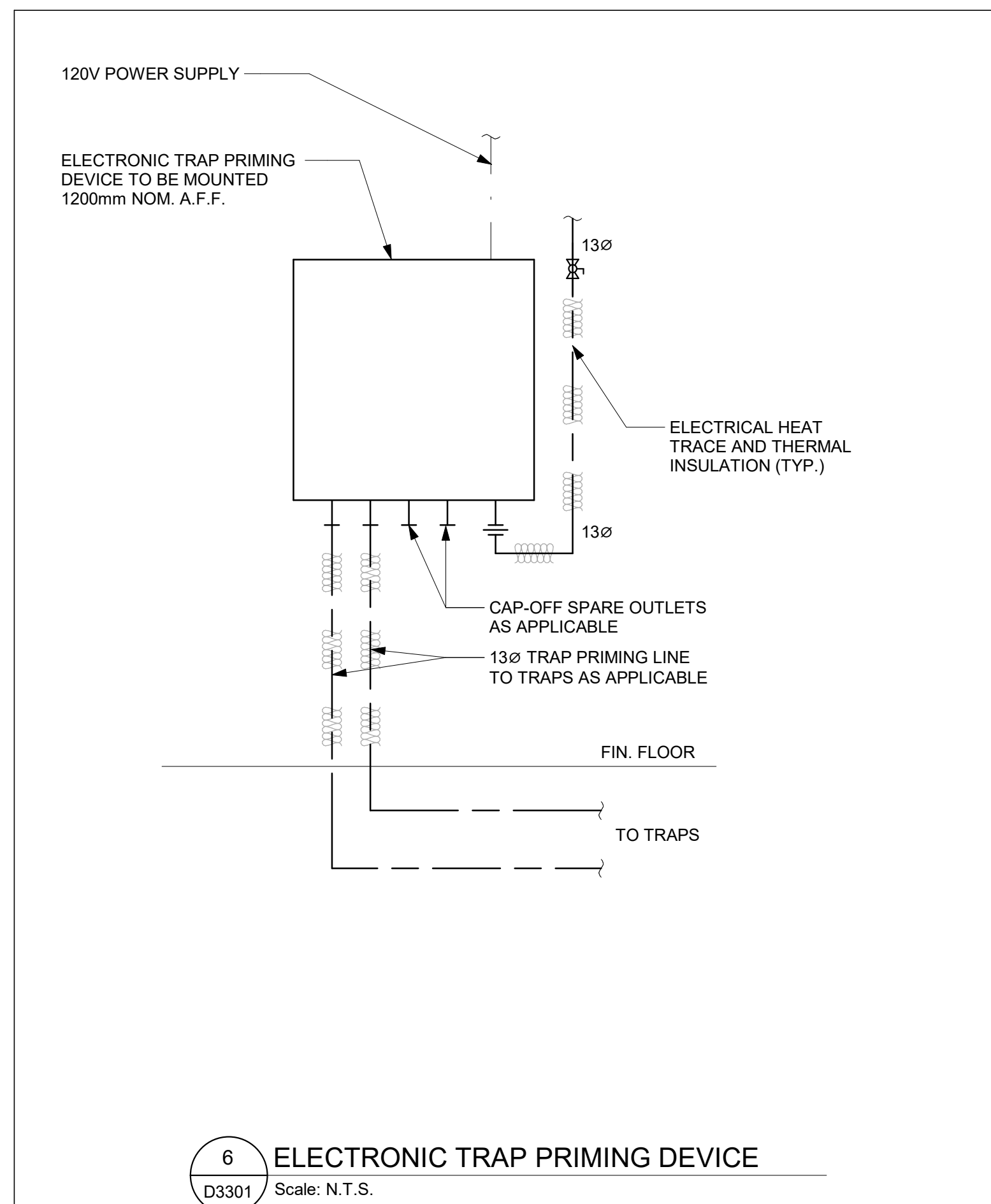
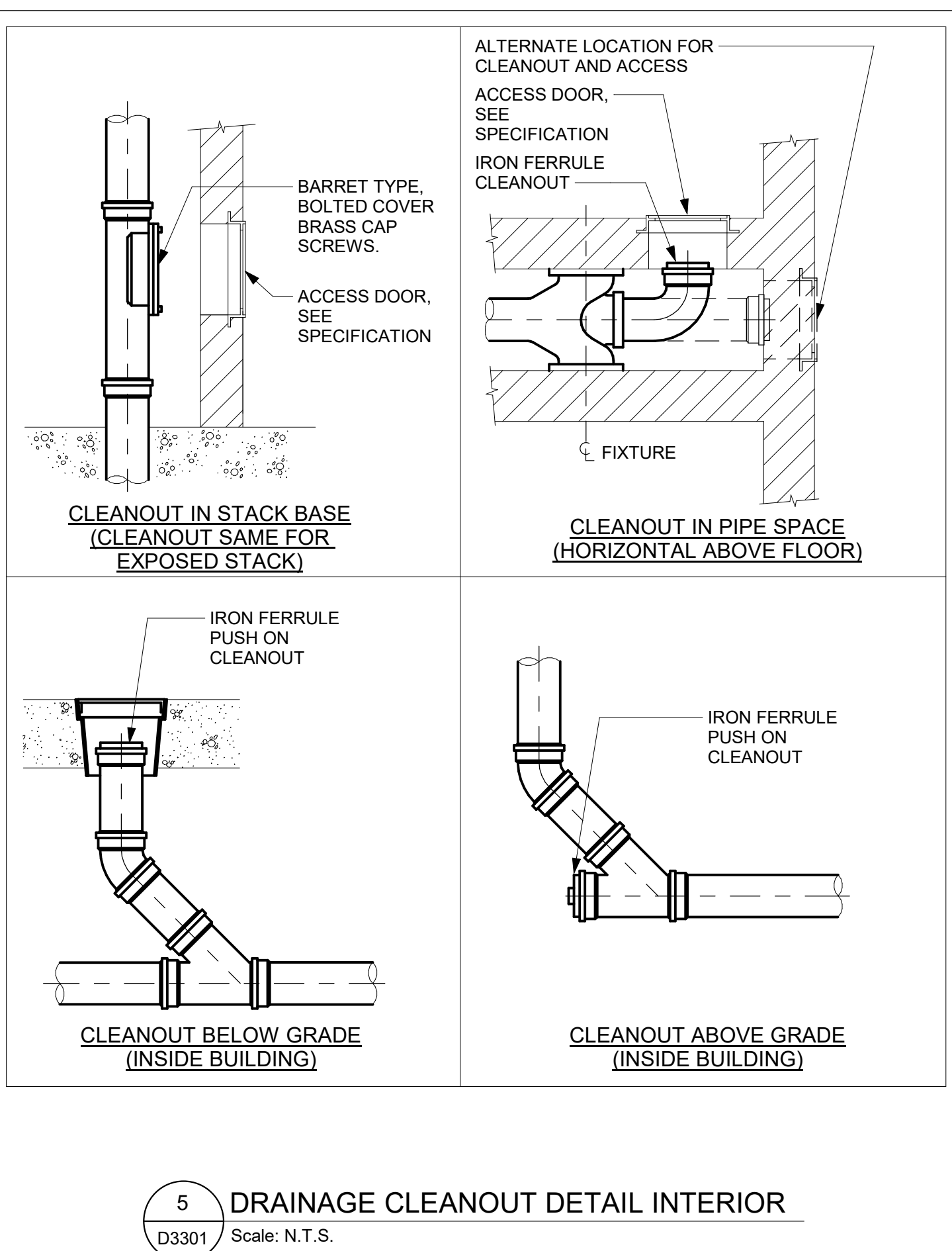
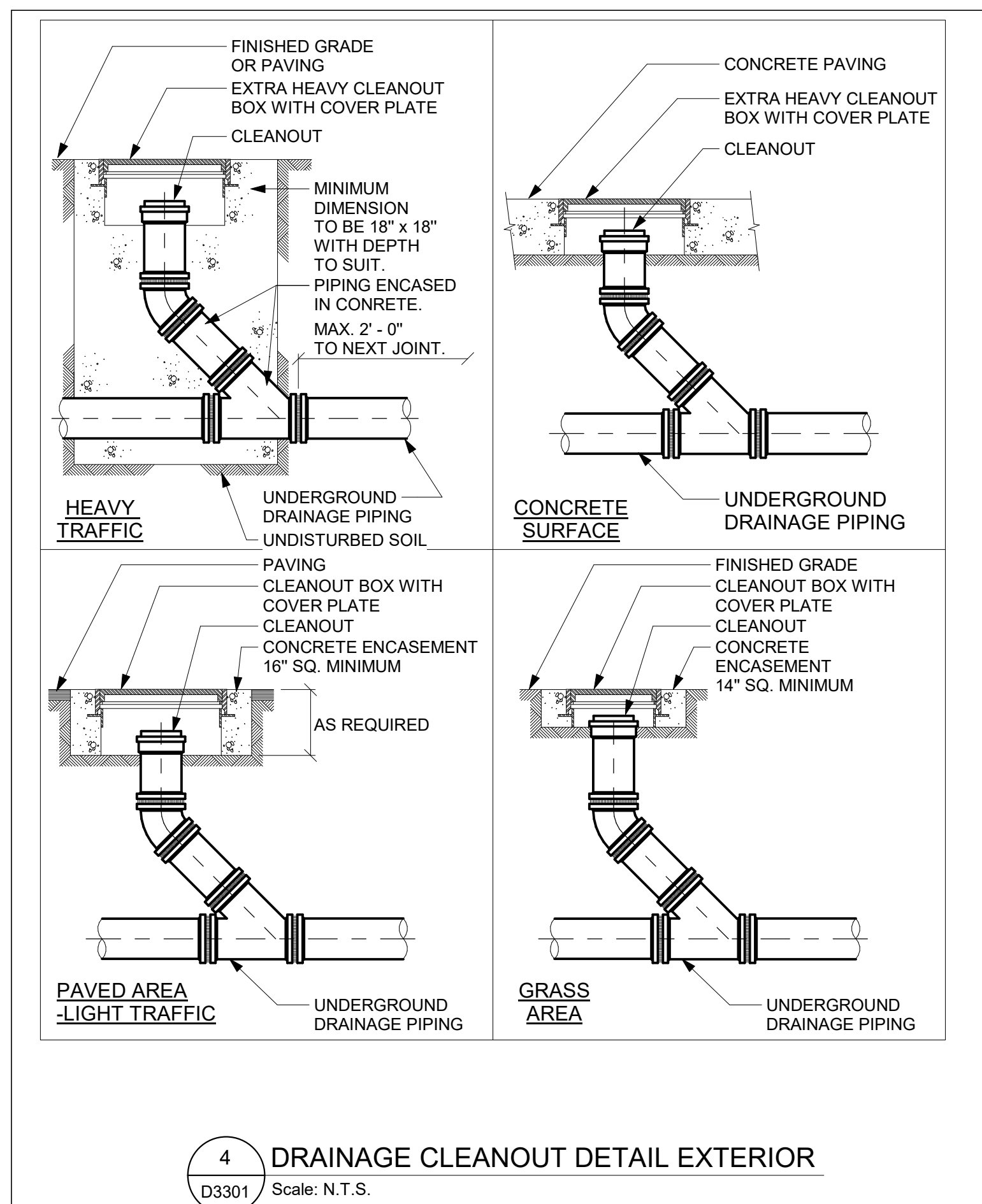
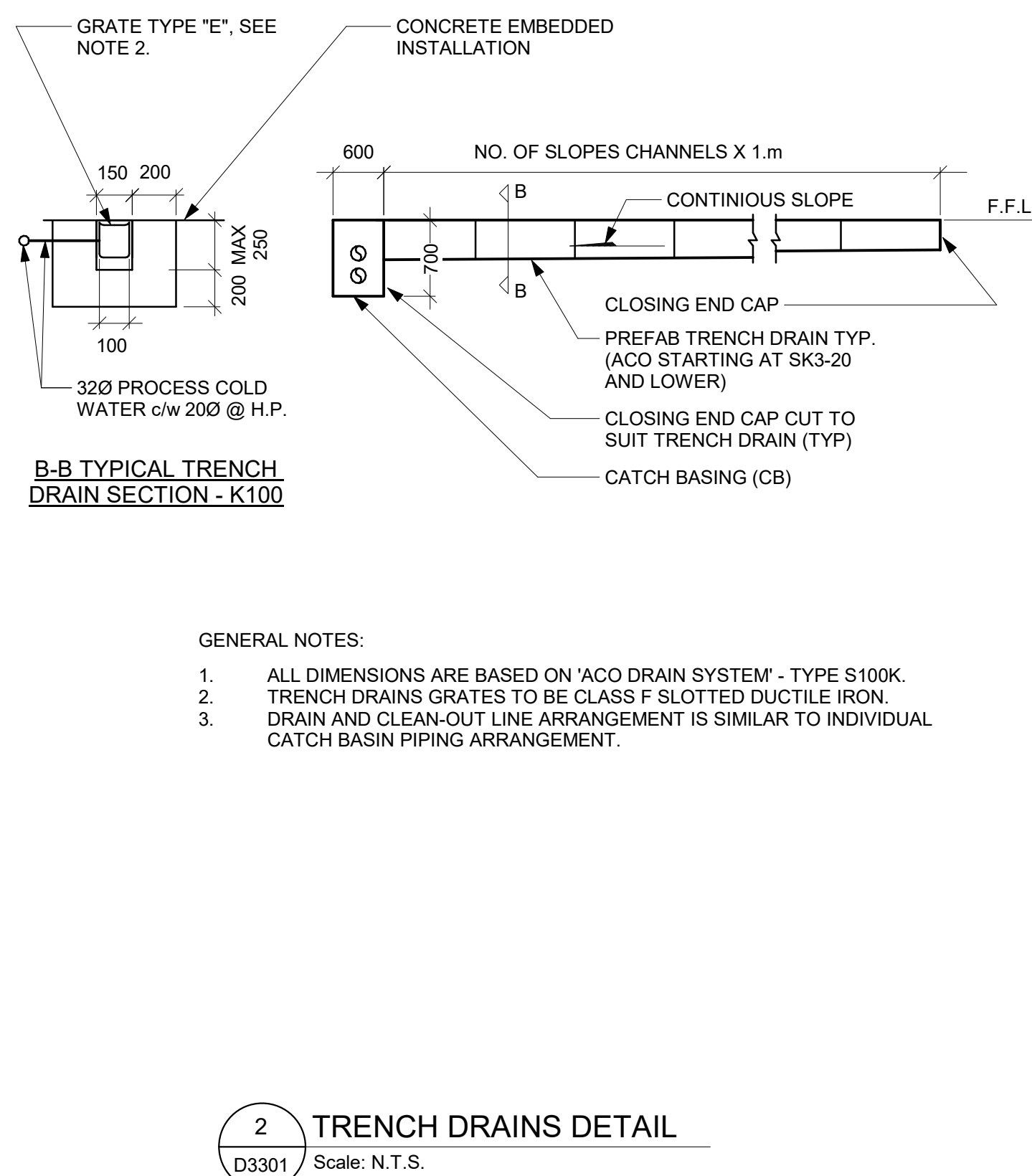
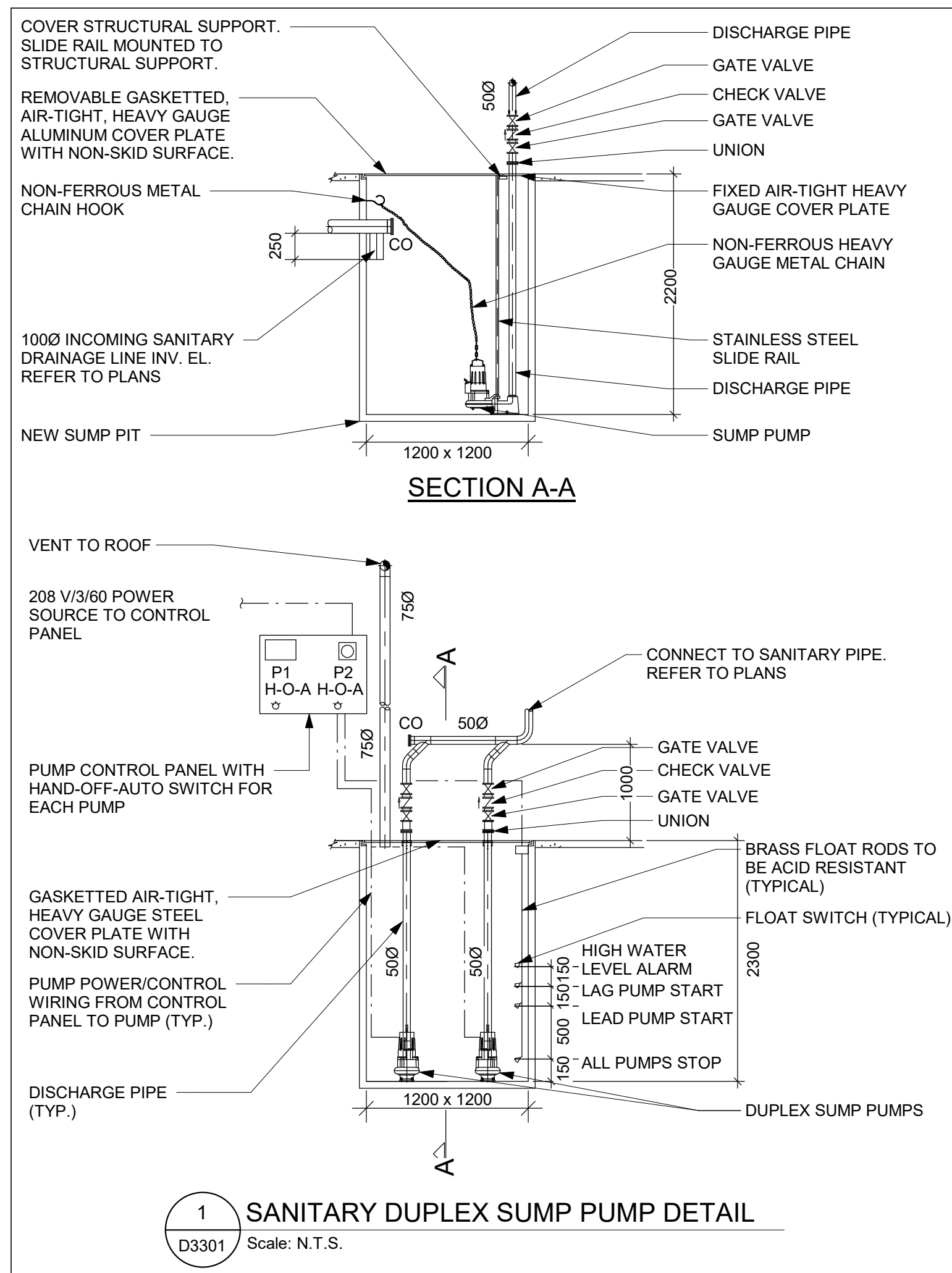
DRAWN BY: <b>N. KHOURY</b>	CHECKED BY: <b>G. VERNESCU</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>S. LIU</b>

SHEET TITLE  
**PLUMBING DETAILS**

SHEET NUMBER  
**G21-GAL-D3201**

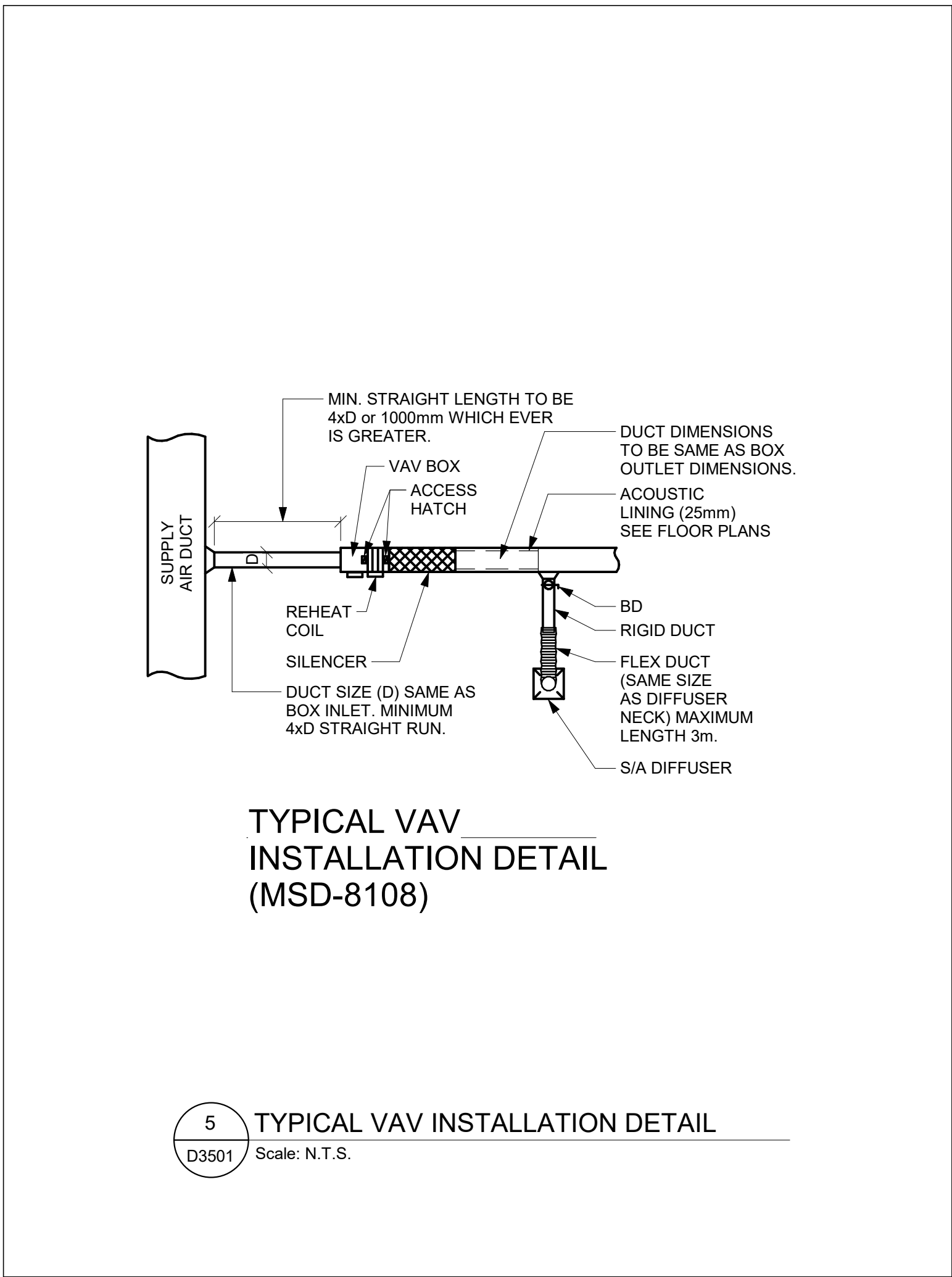
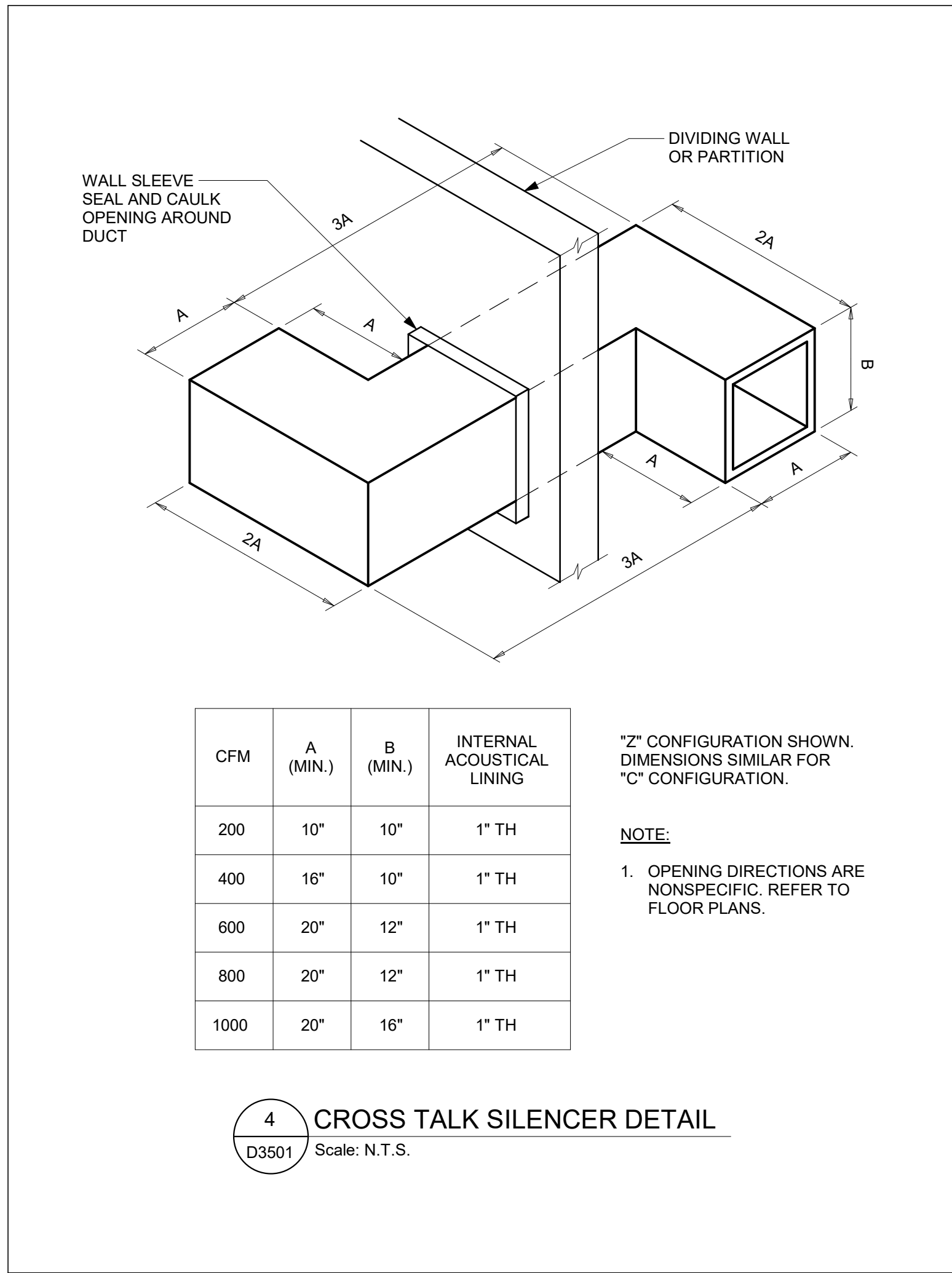
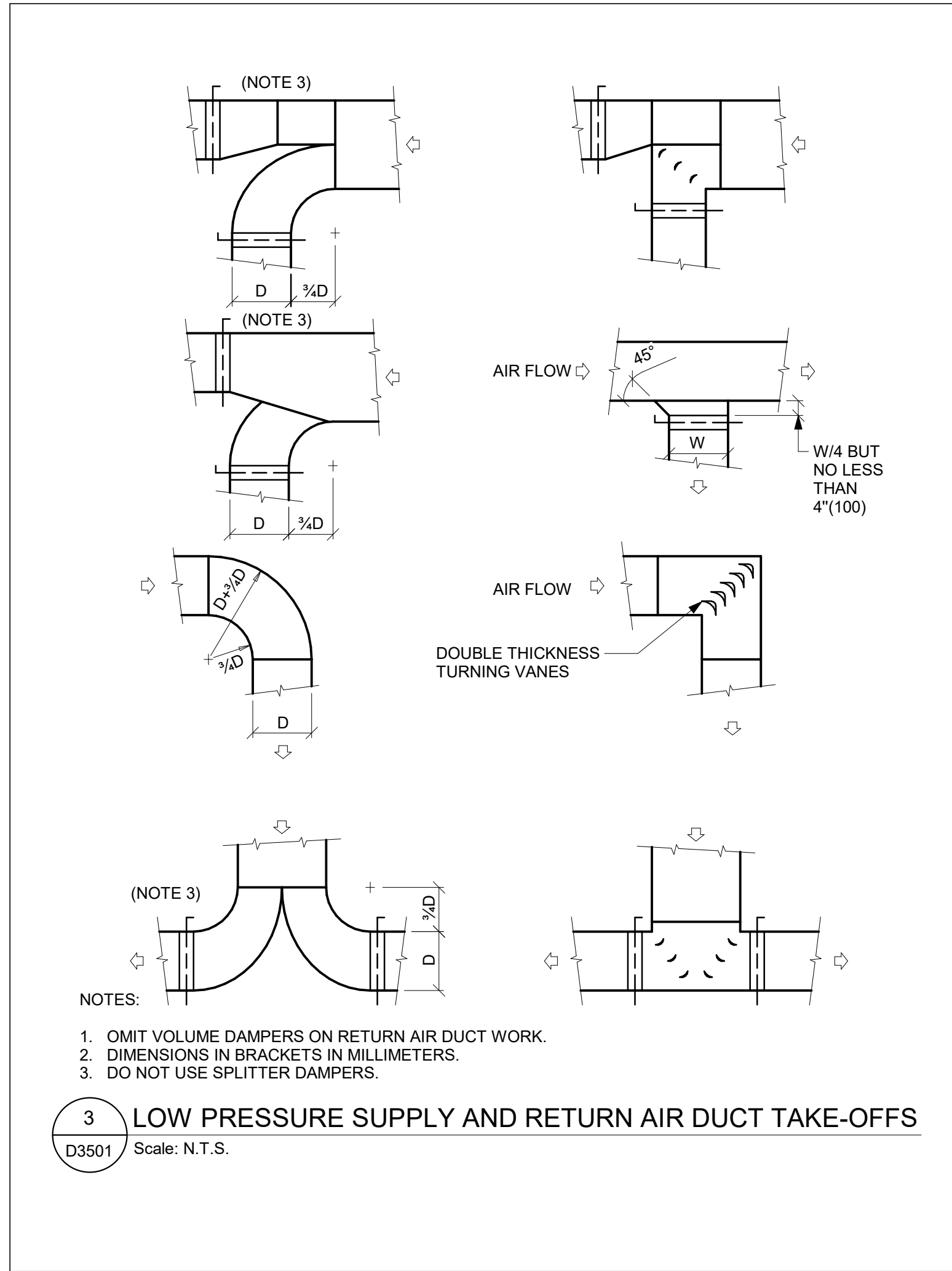
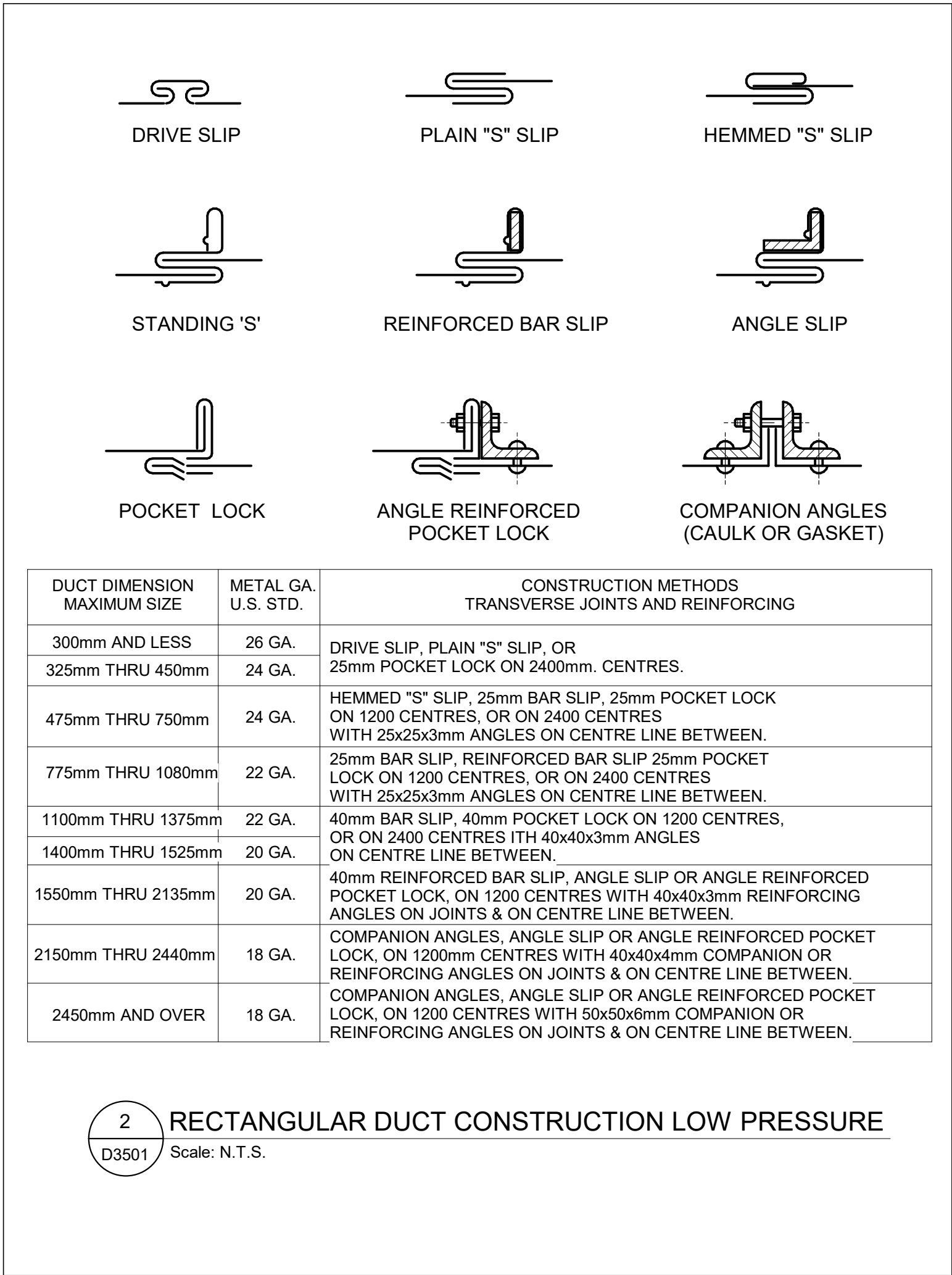
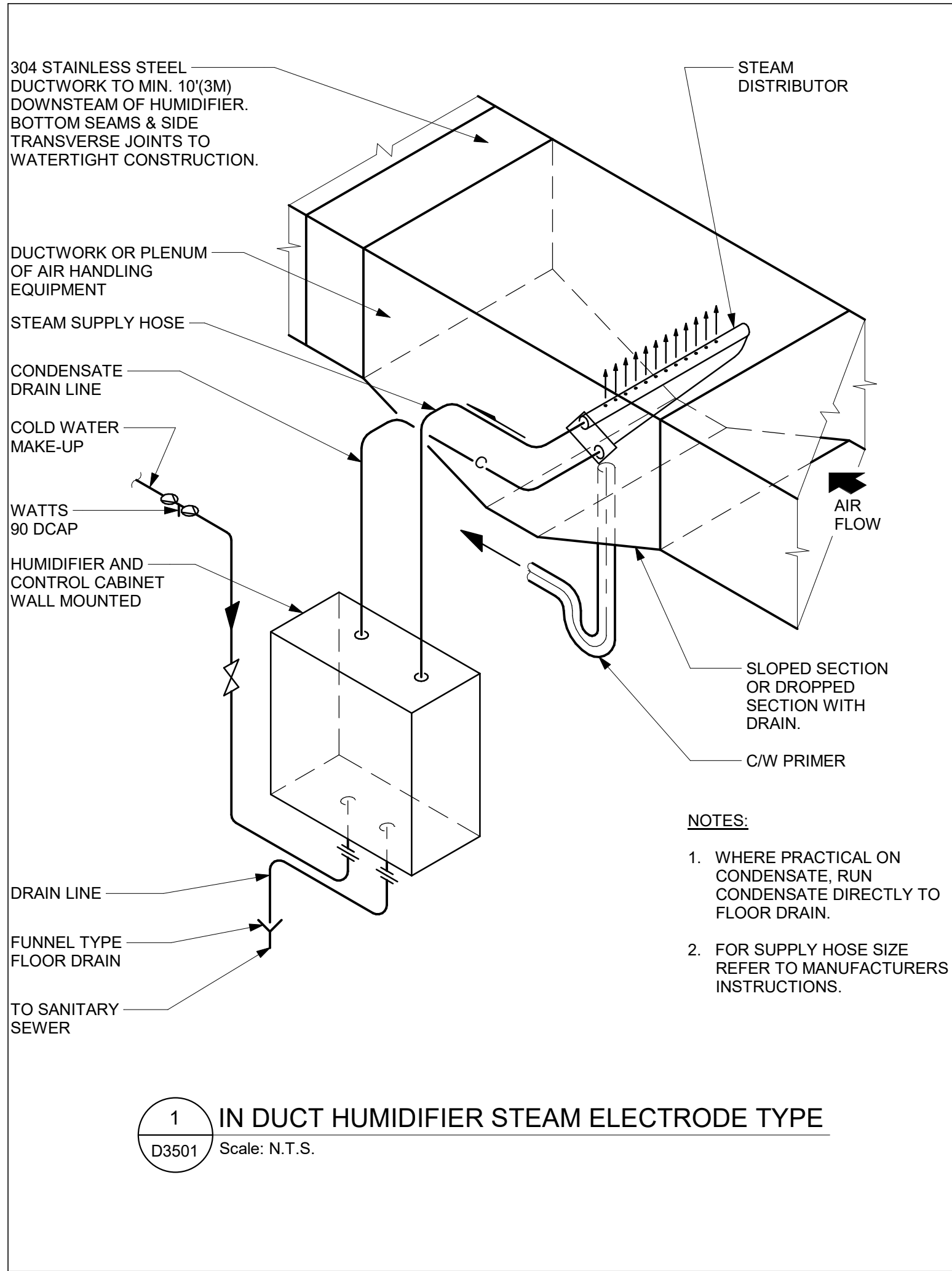
ISSUE  
**E**











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**CITY OF TORONTO**

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Project Management Office  
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B	90% SUBMISSION	2022-02-22
C	ISSUED FOR REVISED 100%	2024-04-30
D	ISSUED FOR REVISED PERMIT	2024-06-14
E	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
**N. KHOURY**

CHECKED BY:  
**G. VERNESCU**

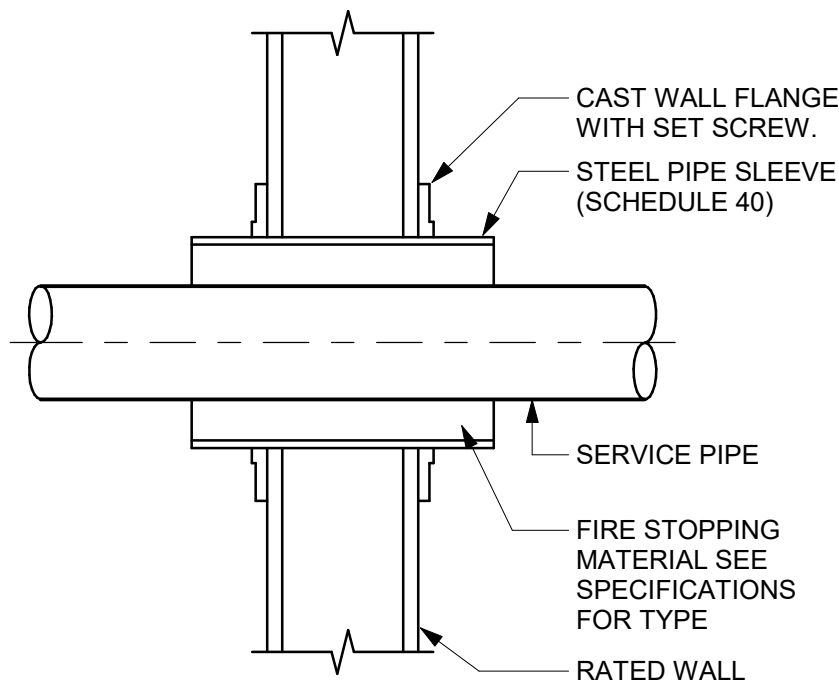
PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S. LIU**

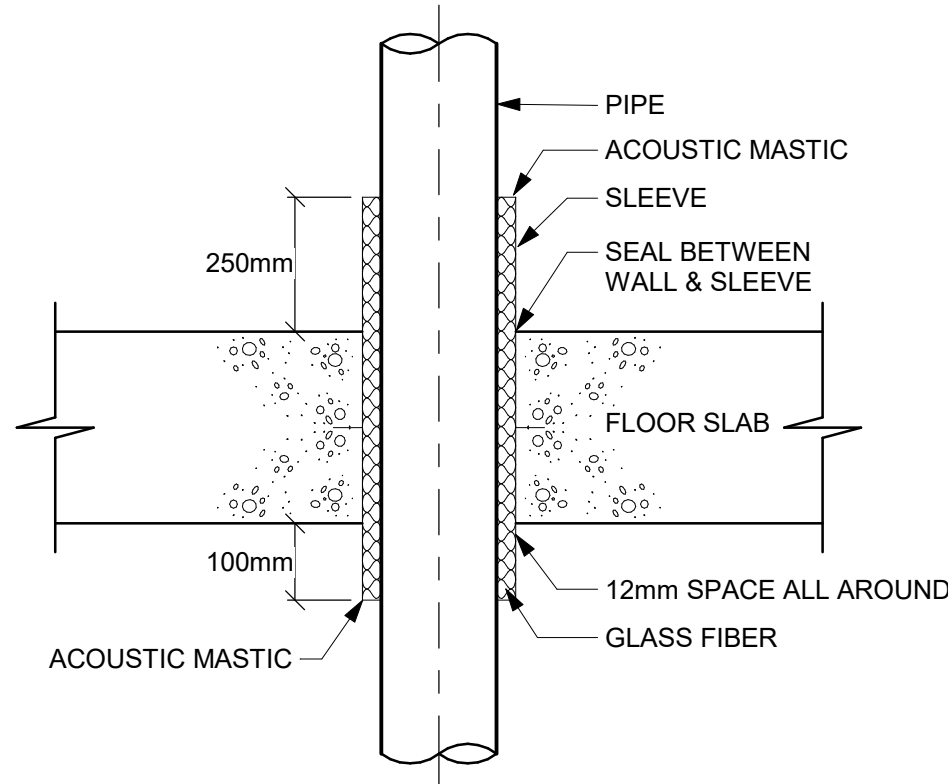
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**HVAC DETAILS**

SHEET NUMBER  
**G21-GAL-D3501**

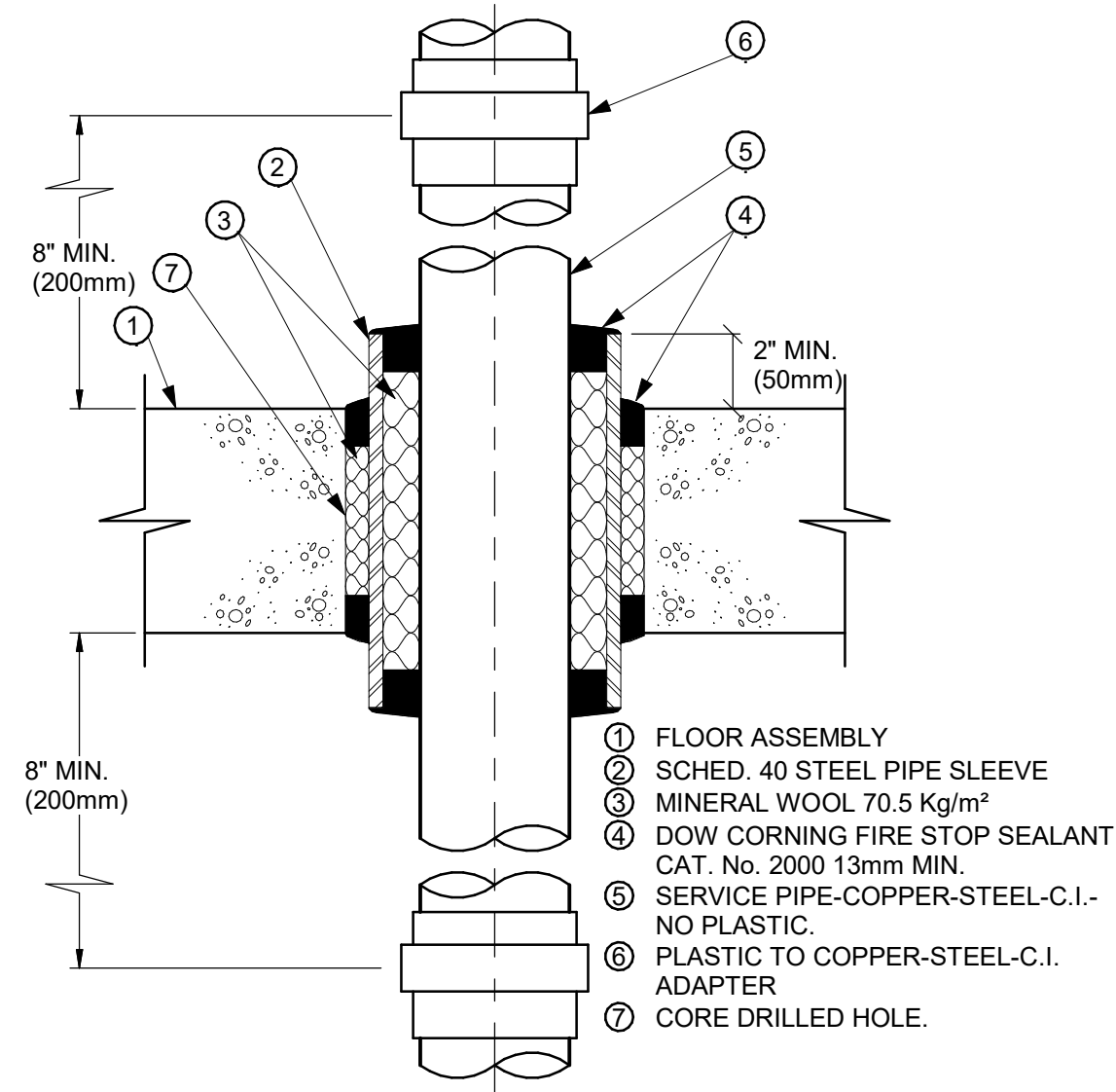
ISSUE  
**E**



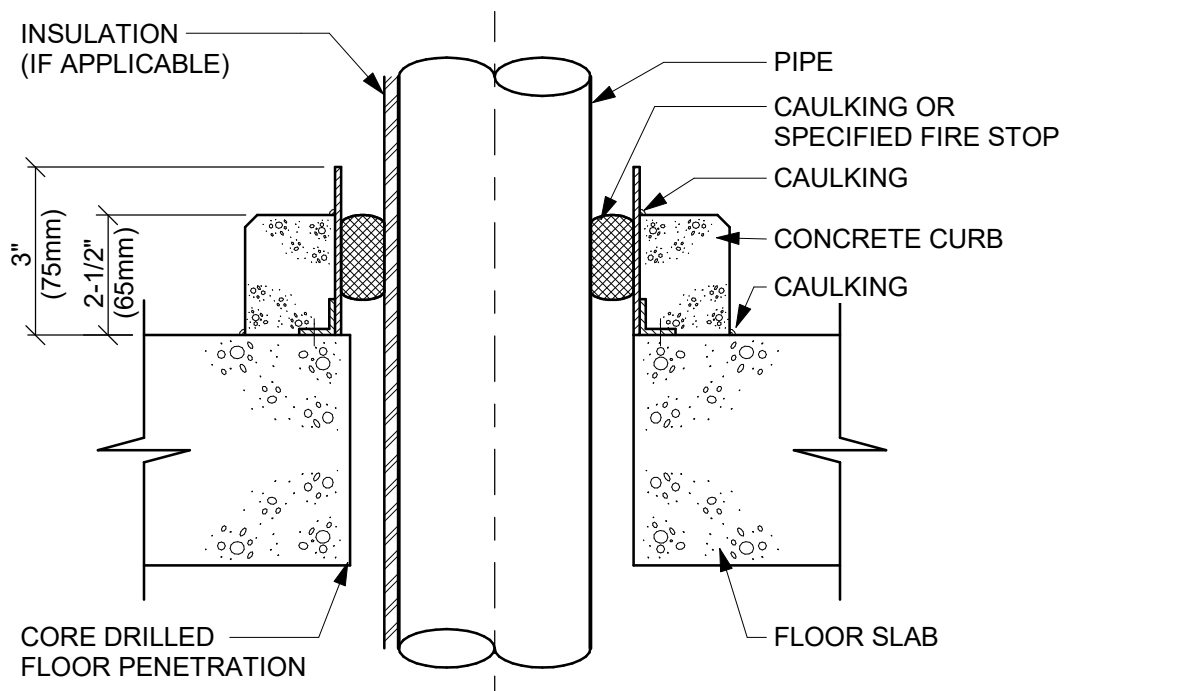
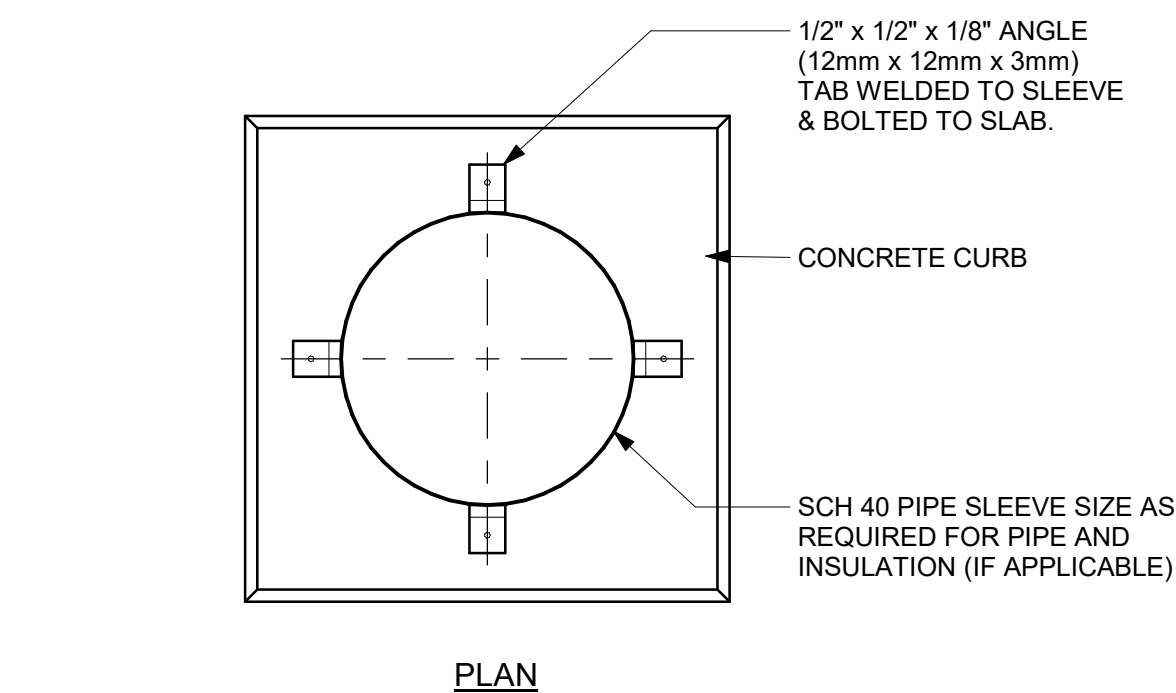
1 SLEEVE THROUGH RATED WALL  
D3601 Scale: N.T.S.



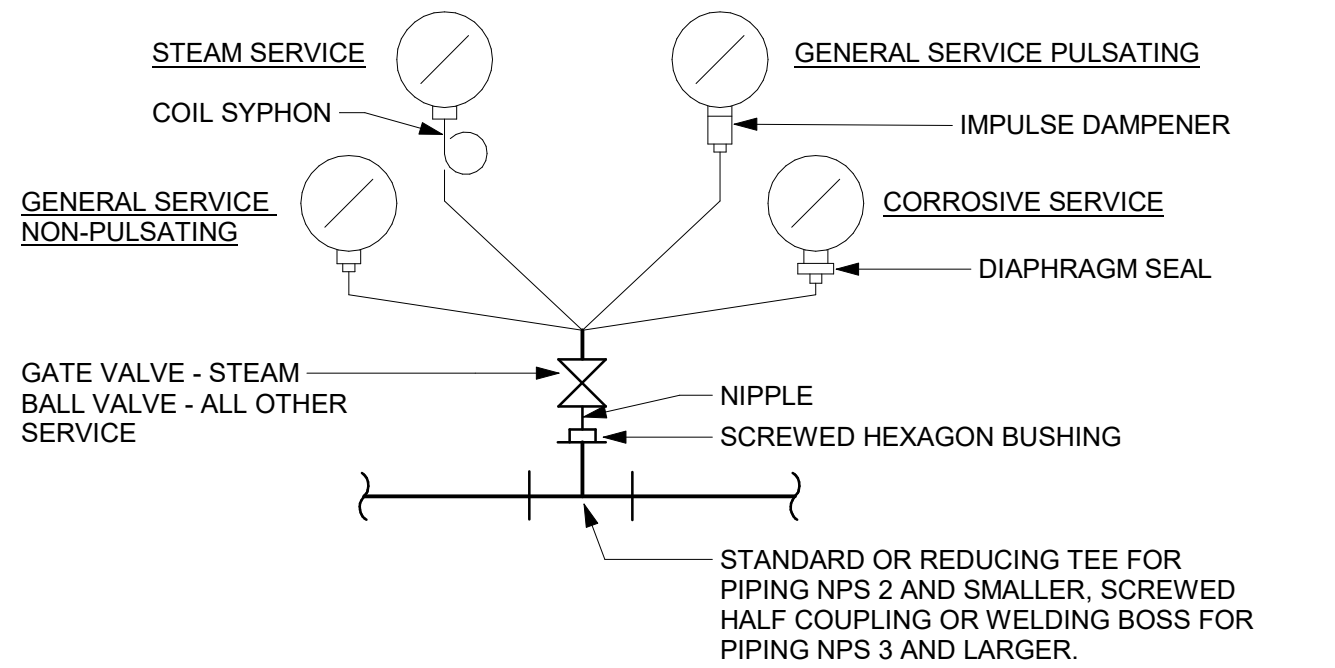
2 ACOUSTIC TREATMENT OF PIPE PENETRATION  
OF MECHANICAL ROOM FLOOR SLAB  
D3601 Scale: N.T.S.



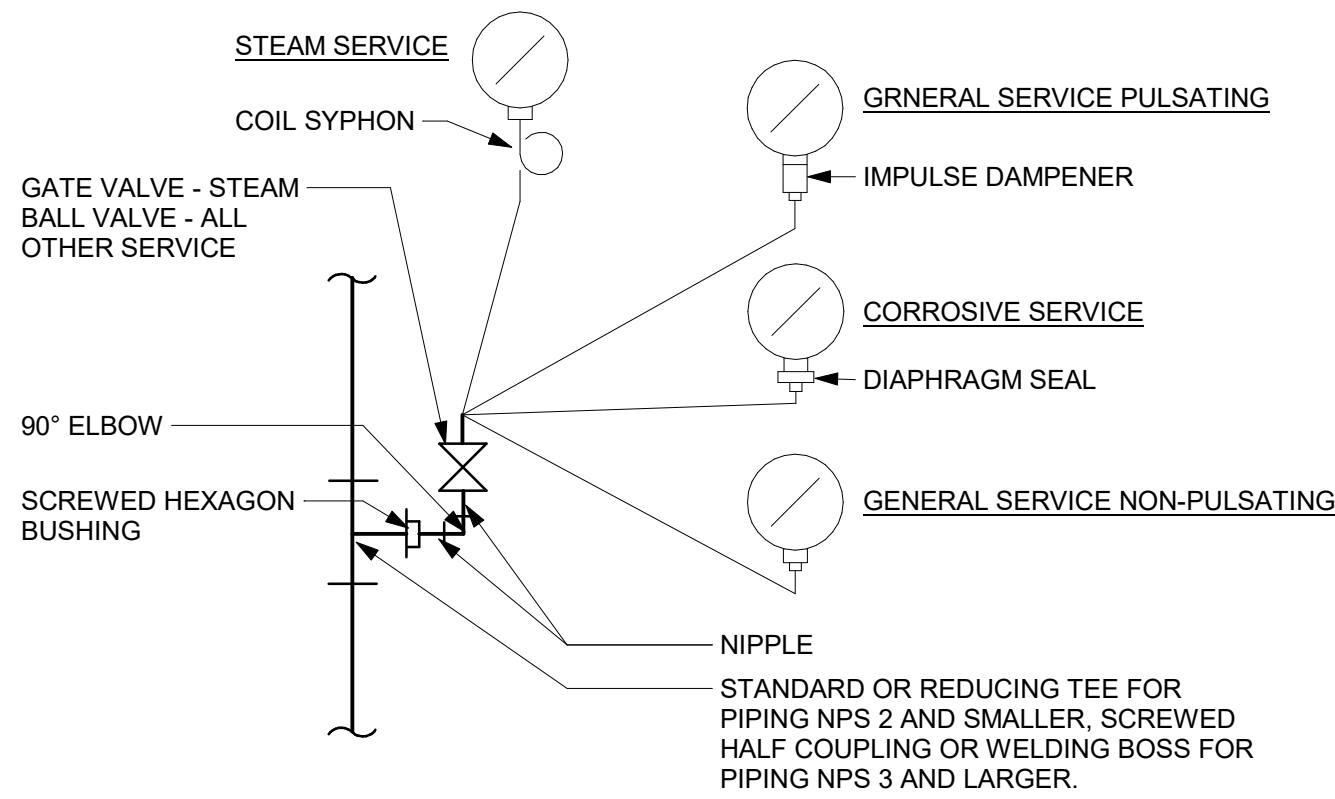
3 PIPE SLEEVE THROUGH FIRE RATED FLOOR SLAB  
D3601 Scale: N.T.S.



4 PIPE SLEEVE THROUGH EXISTING FLOOR SLAB  
D3601 Scale: N.T.S.

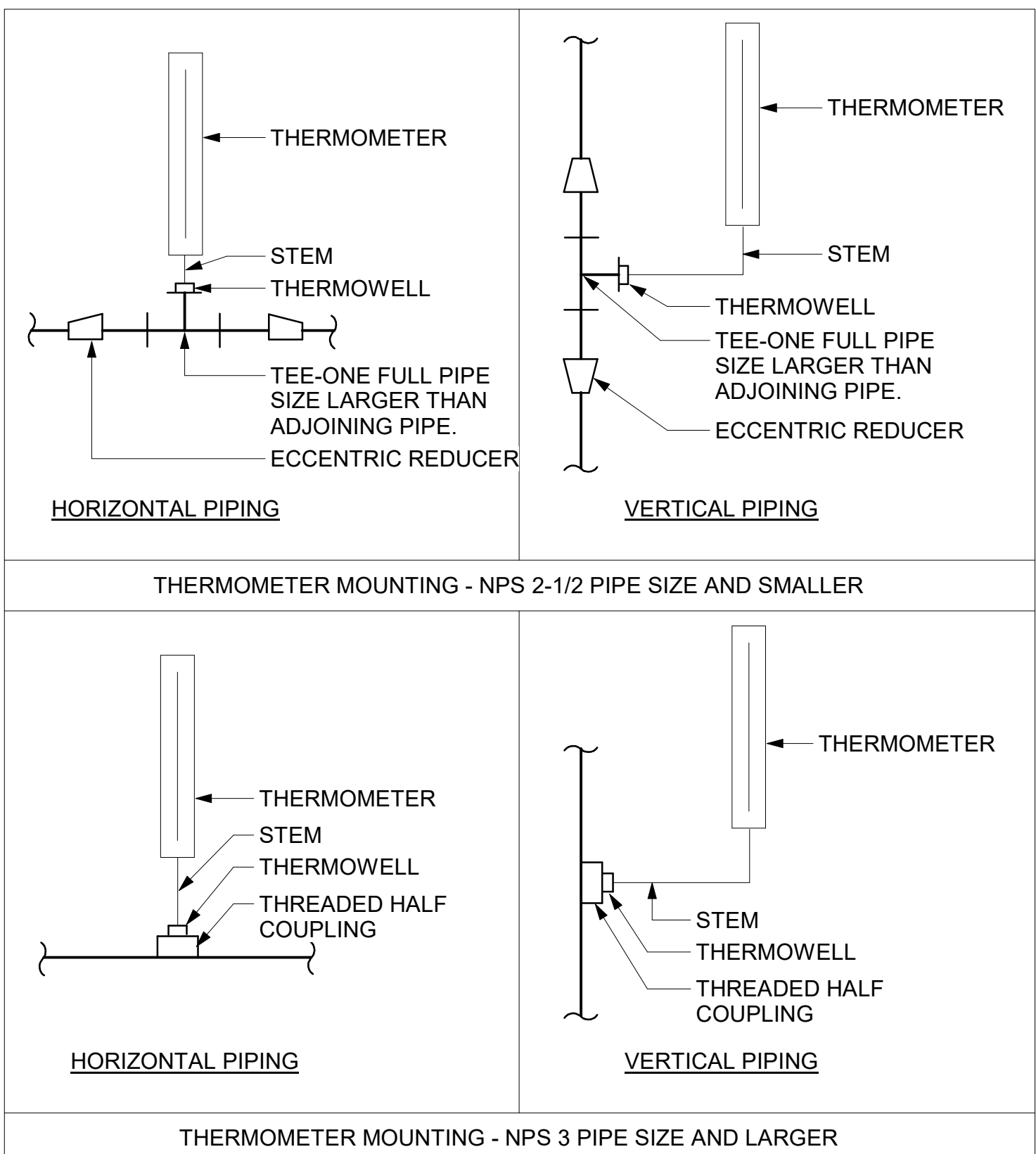


PRESSURE GAUGE MOUNTING - HORIZONTAL PIPING



PRESSURE GAUGE MOUNTING - VERTICAL PIPING

5 PRESSURE GAUGES  
D3601 Scale: N.T.S.



6 TEMPERATURE GAUGES  
D3601 Scale: N.T.S.

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**CITY OF TORONTO  
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PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY:  
**N. KHOURY**

CHECKED BY:  
**G. VERNESCU**

PROJECT MGR:  
**F. BOLOURIAN**

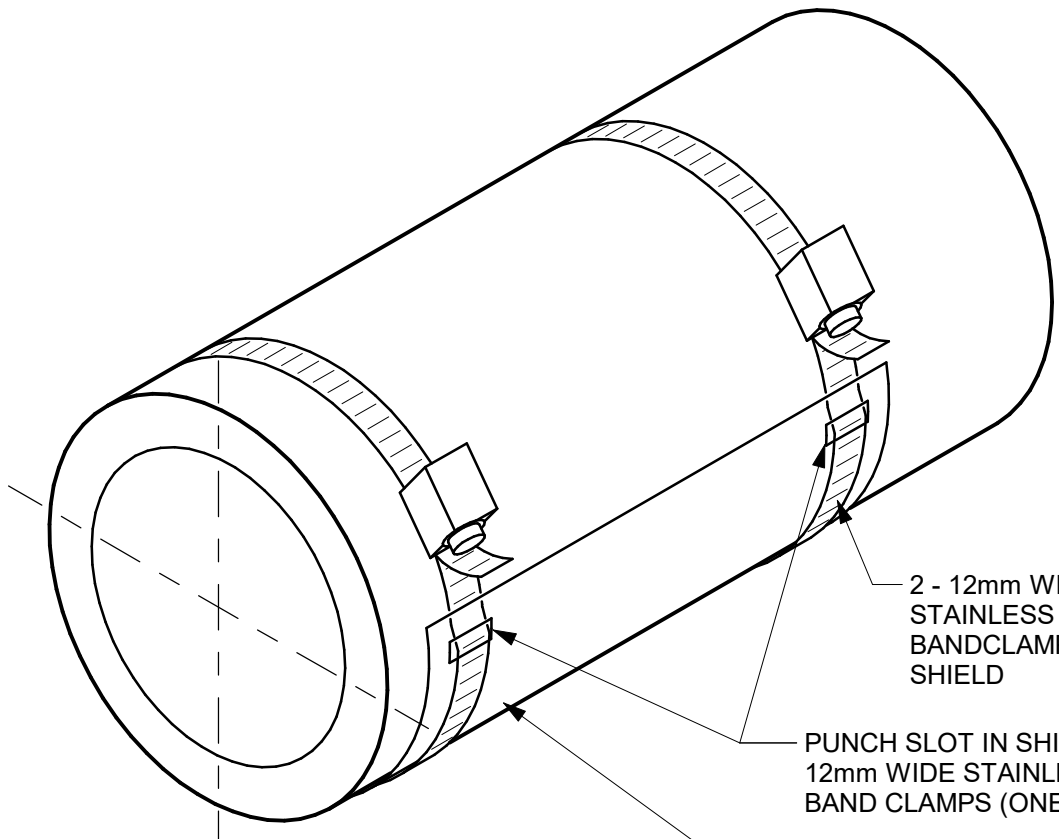
APPROVED BY:  
**S. LIU**

SHEET TITLE  
**PIPING DETAILS  
SHEET 1 OF 2**

SHEET NUMBER  
**G21-GAL-D3601**

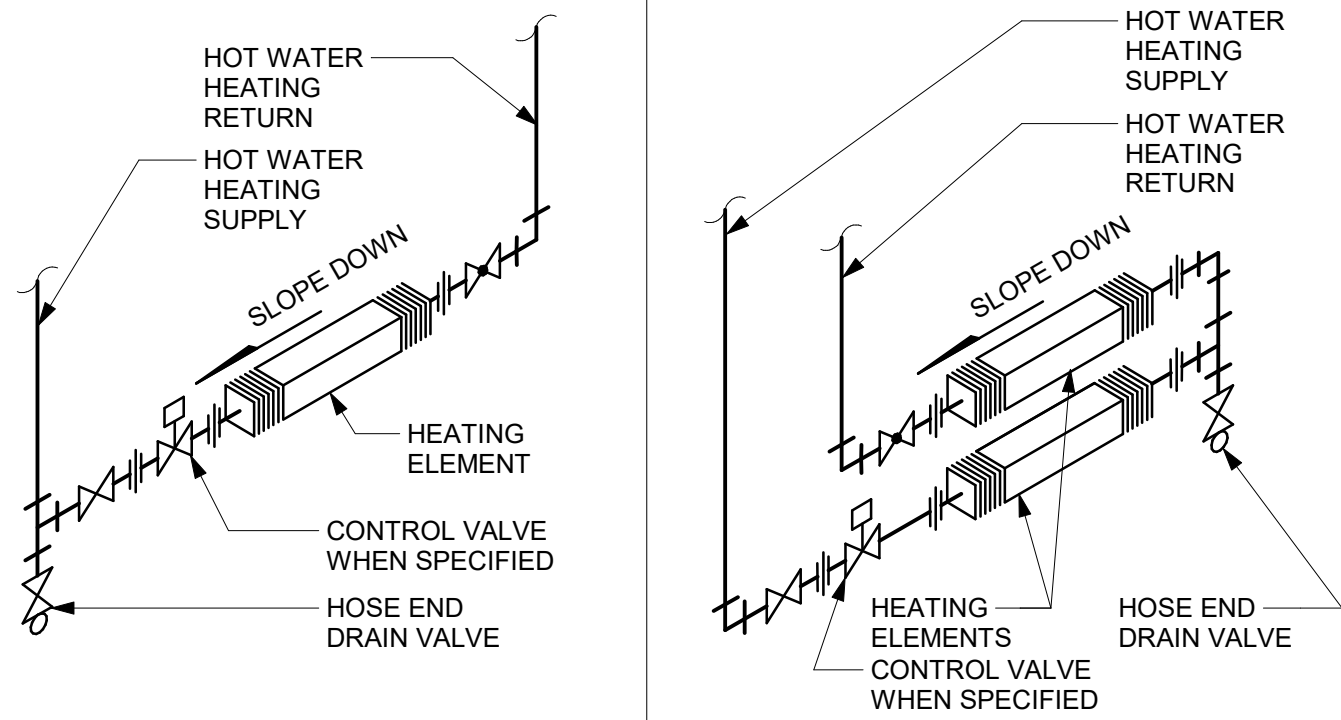
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**E**





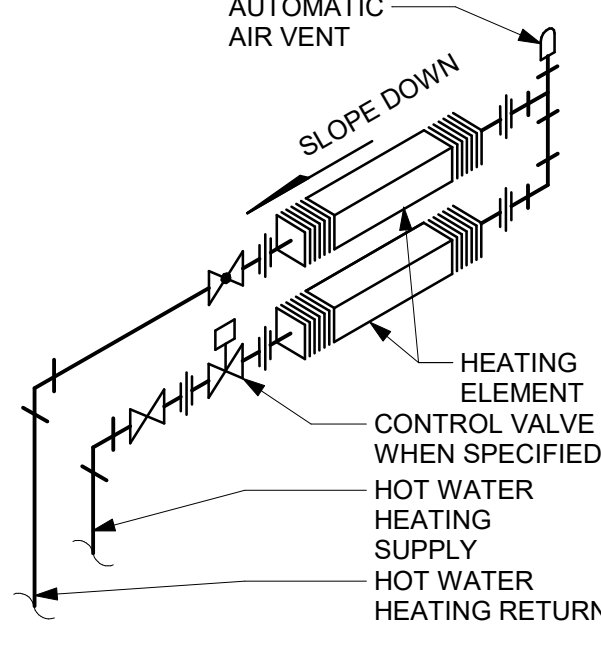
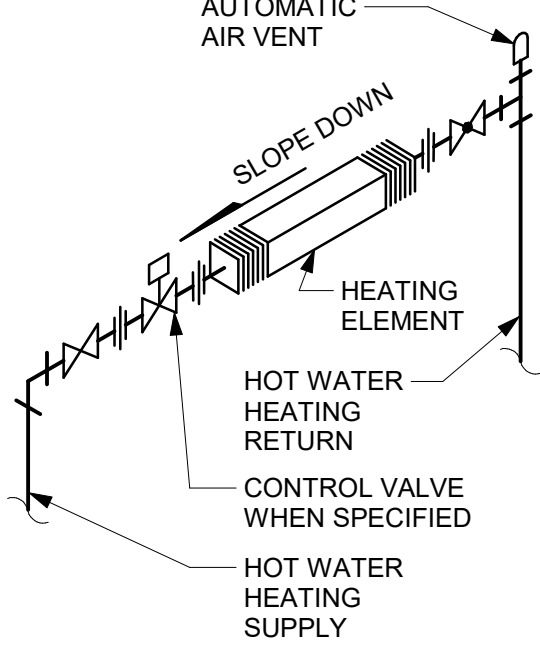
1 INSULATION SHIELD INSTALLATION

D3602 Scale: N.T.S.



SINGLE ROW

DOUBLE ROW



SINGLE ROW

DOUBLE ROW

2 WALL FINNED CONVECTORS: HOT WATER

D3602 Scale: N.T.S.

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ISSUES

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E	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:

9119- 19- 0162 / IBI 122260

DRAWN BY:

N. KHOURY

CHECKED BY:

G. VERNESCU

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

S. LIU

SHEET TITLE

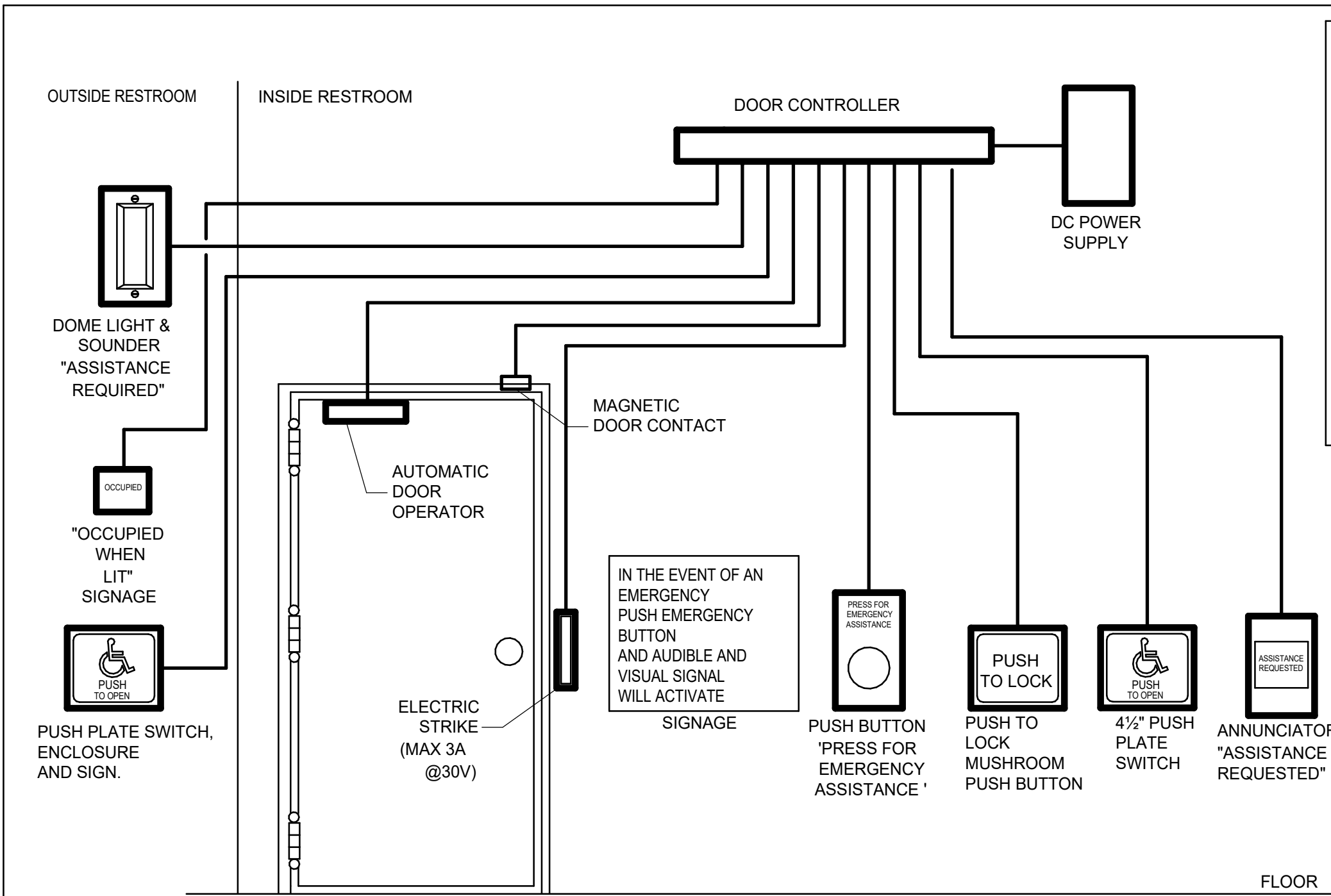
PIPING DETAILS  
SHEET 2 OF 2

SHEET NUMBER

G21-GAL-D3602

ISSUE

E

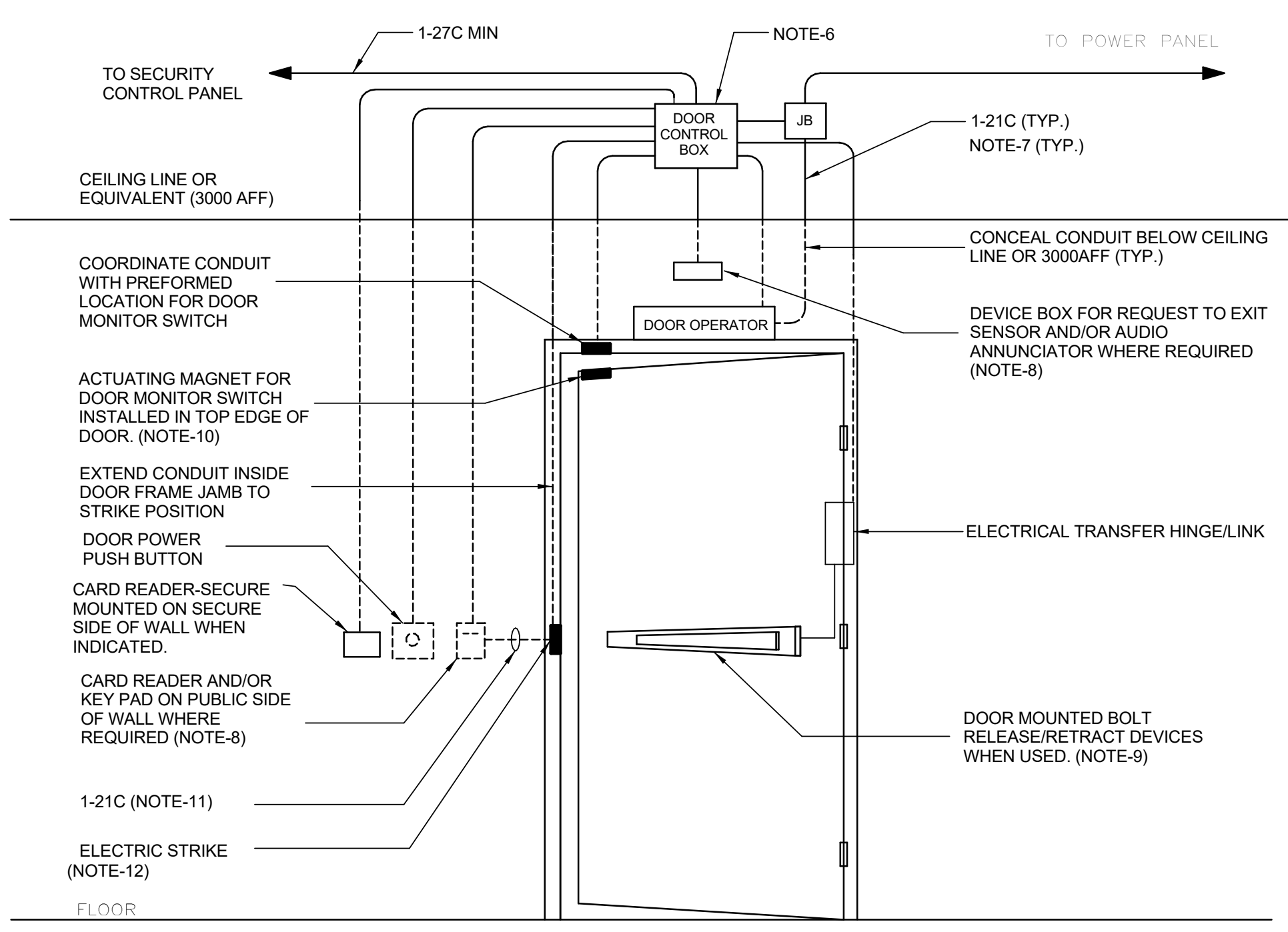


**NOTES**

1. PROVIDE EMERGENCY CALL SYSTEM EQUIPMENT. PROVIDE EMPTY CONDUITS ONLY. COMPLETE WITH PULL STRINGS.
2. BACK BOXES AND CONDUITS SHALL BE ACCORDING TO APPROVED SHOP DRAWINGS. CONDUITS SHALL BE EMT, MINIMUM SIZE 21mm DIA.. CONTRACTOR TO COORDINATE.
3. LOCATIONS OF DEVICES SHALL BE ACCORDING TO ARCHITECTURAL DRAWINGS. VERIFY EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGHING-IN.
4. PROVIDE DOOR OPERATOR. PROVIDE 120V CIRCUIT FOR POWER AND CONDUIT FOR CONTROL CONNECTIONS TO DOOR CONTROLLER AS REQUIRED.
5. PROVIDE ELECTRIC STRIKE AND CONDUIT FOR CONNECTION TO DOOR CONTROLLER AS REQUIRED.

**SEQUENCE OF OPERATION:**

1. UPON PRESSING THE EXTERIOR PUSH PLATE, THE DOOR SHALL OPEN.
2. AFTER ENTRY, THE OCCUPANT SHALL PRESS THE "PUSH TO LOCK" PUSH PLATE, AND LOCK THE DOOR VIA ELECTRIC STRIKE. THE EXTERNAL SIGNAGE WILL BE IN THE "OCCUPIED" STATE. PRESSING THE EXTERIOR PUSH PLATE WILL NOT HAVE ANY EFFECT.
3. THE OCCUPANT WILL EXIT BY PRESSING THE INTERIOR UNIVERSAL SYMBOL FOR ACCESSIBILITY, WHICH WILL UNLOCK THE STRIKE, ACTIVATE THE DOOR OPERATOR AND AND RESET THE EXTERIOR SIGNAGE TO ITS "UNOCCUPIED" STATE. SIMILARLY, THE OCCUPANT MIGHT TURN THE DOOR HANDLE, AND OPEN THE DOOR. THE MAGNETIC DOOR CONTACT WILL REGISTER THIS AS A DOOR OPEN STATUS, AND RESET THE EXTERIOR SIGNAGE TO ITS "UNOCCUPIED" STATE AND RELEASE THE ELECTRIC STRIKE.
4. THE INTERIOR AND EXTERIOR REQUEST FOR EMERGENCY ASSISTANCE AUDIBLE AND VISUAL SIGNAL DEVICES WILL DEACTIVATE UPON RELEASE (PULL) OF THE MUSHROOM PUSHBUTTON. THE DOOR STRIKE WILL REMAIN UNLOCKED AND THE EXTERIOR SIGNAGE WILL BE IN ITS "UNOCCUPIED" STATE.



- NOTES:**
1. THIS CONSTRUCTION DETAIL IS FOR SCHEMATIC PURPOSE ONLY, REFER TO POWER AND SECURITY LAYOUT DRAWINGS AND DOOR HARDWARE SCHEDULE FOR EXACT COMPONENTS REQUIRED AND CONDUIT ROUTING.
  2. ALL CONDUITS WITH PULL STRING, JUNCTION BOXES, PULL BOXES, DEVICE BOXES AND POWER WIRES BY DIV.26.
  3. SECURITY DOOR CONTROLLER, CARD READER, ALARM BUZZER, KEYPAD, REQUEST TO EXIT SENSOR AND SECURITY WIRES BY SECURITY VENDER WHERE REQUIRED.
  4. POWER SUPPLY, DOOR OPERATOR/CONTROLLER, DOOR POWER PUSH BUTTON, ELECTRIC STRIKE/BOLT/LATCH, DOOR CONTACT (MONITOR SWITCH), BY DOOR HARDWARE CONTRACTOR WHERE REQUIRED.
  5. PROVIDE CONTINUOUS ELECTRICAL RACEWAY CONSISTING OF CONDUIT AND/OR CABLE TRAY. NO FREE AIR RUNNING SECURITY CABLE.
  6. JUNCTION BOX SIZED TO ACCOMMODATE LOCAL DOOR CONTROL SYSTEM; MIN. 300x300x150 WITH REMOVABLE AND TAMPER RESISTANT COVER; SURFACE MOUNTED FOR SOLID WALL CONSTRUCTION. SAME WITH 100x100x54 DEVICE BOX WITH 38MM EXTENSION RING TO DEPTH OF 92MM. FLUSH MOUNT FOR CAVITY OR BLOCK WALL CONSTRUCTION. USE COMMON CONDUIT, PULL BOXES AND JUNCTION BOXES FOR INTRUSION DETECTION AND ACCESS CONTROL WIRING.
  7. USE JUNCTION BOX AT CORNER FOR BLOCK WALL CONSTRUCTION. CONCEAL VERTICAL CONDUIT. SURFACE MOUNT HORIZONTAL CONDUIT ON SOLID WALL ONLY
  8. DEVICE BOX. MOUNTED FLUSH WITH SURFACE. PROVIDE SINGLE DEVICE COVER PLASTER RING FOR CAVITY OR BLOCK WALL CONSTRUCTION. REFER TO LAYOUT DRAWING FOR LOCATION. COORDINATE WITH DOOR HARDWARE SCHEDULE FOR EXACT SIZE. DISPENSE WITH WALL BOX WHEN MULLION MOUNT IS INDICATED IN THE DOOR HARDWARE SCHEDULE.
  9. BOLT RELEASE/RETRACT DEVICE MAY BE PUSH-BAR OR LEVER TYPE. USE TYPE INDICATED IN DOOR HARDWARE SCHEDULE.
  10. WHERE DOOR PERFORMANCE REQUIREMENTS CALL FOR INTRUSION DETECTION AND ACCESS CONTROL, USE MAY BE MADE OF 2 SEPARATE SINGLE POLE SWITCHES OR ONE COMMON 2 POLE SWITCH. MAINTAIN SEPARATION BETWEEN WIRING OF TWO SYSTEMS.
  11. USE OF BRIDGING CONDUIT ACCEPTABLE FOR CAVITY OR BLOCK WALL CONSTRUCTION WHERE SITE CONDITIONS PERMIT.
  12. OMIT WHEN ELECTRIC LATCH IS USED.
  13. ENSURE THAT WHEN CREDENTIAL IS NOT PRESENTED AND DOOR PUSH BUTTON IS TRIGGERED THAT MOTOR DOES NOT ENGAGE. SEQUENCE OF OPERATION IS TO PRESENT CREDENTIAL -> ACTIVATE DOOR OPERATOR PUSH BUTTON

1 UNIVERSAL WASHROOM DETAIL  
D4001 Scale: NTS

2 SECURITY SINGLE DOOR DETAIL - POWER OPERATED  
D4001 Scale: 1 : 1

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY: <b>V. MAC</b>	CHECKED BY: <b>M. BOJIC</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>P. WILLIAMS</b>

SHEET TITLE  
**ELECTRICAL DETAILS 1**

SHEET NUMBER  
**GAL-D4001**

ISSUE  
**C**



# CITY OF TORONTO

# ACCESSIBILITY UPGRADES

TOUCH AND FEEL INDEX	
SHEET #	SHEET TITLE
T00	COVER PAGE
T01	WASHROOM
T02	WASHROOM ACCESSORIES
T02.1	WASHROOM ACCESSORIES
T03	WASHROOM FIXTURES & DRINKING FOUNTAIN
T04	KITCHEN MATERIALS AND FIXTURES
T05	RESERVED
T06	TACTILE ATTENTION INDICATORS
T07	TEXTURAL & COLOUR CONTRAST WARNING STRIP AND NOSING
T08	DOOR THRESHOLDS

TOUCH-AND-FEEL DOCUMENT SHOULD BE READ IN CONJUNCTION WITH  
DRAWINGS AND SPECIFICATIONS



CITY OF  
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## TOUCH AND FEEL

## INTERIOR FIXTURES AND MATERIALS

Project Number: 9119- 19- 0162 / 122260

Date: 2025-09-08

WASHROOM FINISHES	
WASHROOM / SHOWER WALLS	COLLECTION: COLOUR & DIMENSION
CWT-1	COLOUR: ARCTIC WHITE MATTE
	SIZE: 100mm X 400mm (4"X16")
	SUPPLIER: OLYMPIA
WASHROOM / SHOWER WALL ACCENT	MATCH EXISTING
CWT-2	TILE SIZE IS INDICATED ON ROOM FINISH SCHEDULE
WASHROOM / SHOWER WALL ACCENT	COLLECTION: COLOUR & DIMENSION
CWT-3	COLOUR: TAUPE, MATTE
	SIZE: 100mm X 400mm (4"X16")
	SUPPLIER: OLYMPIA
WASHROOM / SHOWER WALL ACCENT	COLLECTION: COLOUR & DIMENSION
CWT-4	COLOUR: DARK GREY MATTE
	SIZE: 100mm X 400mm (4"X16")
	SUPPLIER: OLYMPIA
FLOORS	COLLECTION: MICA, MATTE FINISH
PFT-1 300mm X 610mm (12"X24")	SIZES: PFT-1(12"X24") PFT-1a(6"X6") PFT-1b(12"X12")
PFT-1a 150mm X 150mm (6"X6")	MEETS DYNAMIC COEFFICIENT OF FRICTION
PFT-1b 300mm X 300mm (12"X12")	PREFERRED SUPPLIER: D9 / EMOTION
SHOWER FLOORS	COLLECTION: STI MOSAICO
PFT-2	COLOUR: MID GREY UNGLAZ
	SIZE: 50mm X 50mm (2"X2")
	MEETS DYNAMIC COEFFICIENT OF FRICTION
	SUPPLIER: STONE TILE
FLOORS	MATCH EXISTING
PFT-3	TILE SIZE IS INDICATED ON ROOM FINISH SCHEDULE
FLOORS	COLLECTION: CORE COLLECTION TERRA
PFT-4	COLOUR: 200 SMOOTH (V)
	SIZE: 304.8mm X 609.6mm (12"X24")
	MEETS DYNAMIC COEFFICIENT OF FRICTION
	SUPPLIER: MOSA TILE

NOTE: THE FINISHES PRESENTED ON THIS PAGE ARE THE BASIS OF DESIGN - ANY ALTERNATES ARE SUBJECT TO APPROVAL BY CITY OF TORONTO, PROJECT MANAGER, FACILITY MANAGER AND STAKEHOLDERS

FOR WASHROOMS WHERE ALL FIXTURES AND WALLS ARE BEING REMOVED ONLY



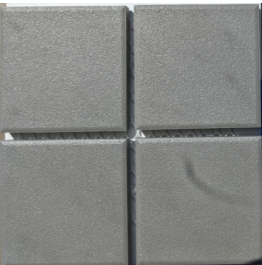
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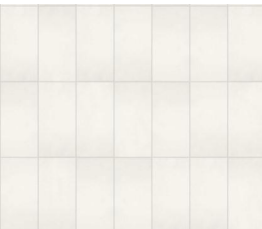
CWT-3



CWT-4



PFT-2



PFT-4



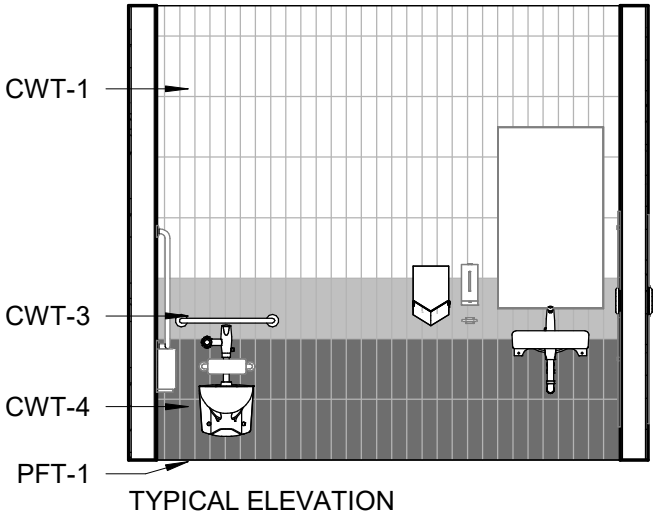
PFT-1



PFT-1a



PFT-1b
















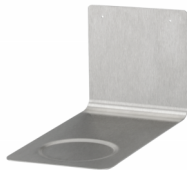

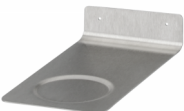







PICTURE 1



PICTURE 2

NOTE: PICTURES ARE ONLY FOR ILLUSTRATION PURPOSES



 <p><b>SHELF: SHLF</b> GAMCO MS-18 STAINLESS STEEL MIRROR SHELF – 18"</p>	 <p><b>SOAP DISH: SDI-1</b> SURFACE MOUNTED, STAINLESS STEEL, TYPE 304 FLANGE. BRADLEY MODEL NO. 901</p>	 <p><b>SOAP DISPENSER:</b> <b>SD-1: LIQUID SOAP 6A00-11</b> <b>SD-1A: FOAM SOAP 6A01-11</b> WALL MOUNTED, AUTOMATIC STAINLESS STEEL WITH STAIN FINISH, CLEAR ACRYLIC REFILL INDICATOR WINDOW AND KEY LOCK. BRADLEY.</p>		
 <p><b>COAT HOOK: CTH-1</b> B-983 STAINLESS STEEL, 14- GAUGE AUTO-RELEASE CLOTHES HOOK WITH EXPOSED STAIN FINISH, FACEPLATE WITH SLOPED EDGES.</p>	 <p><b>SOAP DISH: SDI-2</b> RECESSED MOUNTED SOAP DISH, HEAVY DUTY STAIN FINISH STAINLESS STEEL. BRADLEY MODEL NO. SA16</p>	 <p><b>SOAP DISPENSER: SD-2</b> COUNTER MOUNTED, TOUCH FREE, ONE PIECE, CAST BRASS CONSTRUCTION ABOVE DECK, SINGLE MOUNT FOAM SOAP DISPENSER WITH ADJUSTABLE SENSOR. MOEN, MODEL NO. 8560</p>	<p><b>L-SHAPED GRAB: GRB-1</b> SATIN FINISH WITH PEENED GRIPPING SURFACE; 18-GAUGE (1.2MM) STAINLESS STEEL TUBING WITH SATIN-FINISH. 38MM OUTSIDE DIAMETER. ENDS ARE HELIARC WELDED TO FLANGES. CLEARANCE BETWEEN THE GRAB BAR AND WALL IS 38MM. 30" X 30" 762MM X 762MM)</p>	<p><b>L-SHAPED GRAB: GRB-2</b> SATIN FINISH WITH PEENED GRIPPING SURFACE; 18-GAUGE (1.2MM) STAINLESS STEEL TUBING WITH SATIN-FINISH. 38MM OUTSIDE DIAMETER. ENDS ARE HELIARC WELDED TO FLANGES. CLEARANCE BETWEEN THE GRAB BAR AND WALL IS 38MM. 40" X 30" (1016MM X 762MM)</p>
 <p><b>COAT HOOK: CTH-2</b> B-2116 12-GAUGE (2.7mm) CASE HARDENED STEEL. ONE PIECE BRASS CASTING WITH SATIN NICKEL- PLATED FINISH</p>	<p><b>DRIP TRAY: DT-1</b> SURFACE MOUNTED DRIP TRAY, BRUSHED FINISH STAINLESS STEEL. SANTRAL MODEL DRIP TRAY NSU 7 SHORT</p> 	 <p><b>GRAB BAR: GRB-3</b> SATIN FINISH WITH PEENED GRIPPING SURFACE; 18-GAUGE (1.2MM) STAINLESS STEEL TUBING WITH SATIN-FINISH. 38MM OUTSIDE DIAMETER. ENDS ARE HELIARC WELDED TO FLANGES. CLEARANCE BETWEEN THE GRAB BAR AND WALL IS 38MM. 30" (762MM)</p>	 <p><b>GRAB BAR: GRB-4</b> SATIN FINISH WITH PEENED GRIPPING SURFACE; 18-GAUGE (1.2MM) STAINLESS STEEL TUBING WITH SATIN-FINISH. 38MM OUTSIDE DIAMETER. ENDS ARE HELIARC WELDED TO FLANGES. CLEARANCE BETWEEN THE GRAB BAR AND WALL IS 38MM. 36" (914MM)</p>	 <p><b>GRAB BAR: GRB-5</b> SATIN FINISH WITH PEENED GRIPPING SURFACE; 18-GAUGE (1.2MM) STAINLESS STEEL TUBING WITH SATIN-FINISH. 38MM OUTSIDE DIAMETER. ENDS ARE HELIARC WELDED TO FLANGES. CLEARANCE BETWEEN THE GRAB BAR AND WALL IS 38MM. 40" (1016MM)</p>
	<p><b>DRIP TRAY: DT-2</b> SURFACE MOUNTED DRIP TRAY, BRUSHED FINISH STAINLESS STEEL. SANTRAL MODEL DRIP TRAY NSU 7</p> 			
 <p><b>MIRROR: MIR</b> 6 MM" FLOAT GLASS, SELECTED FOR SILVERING, ELECTROLYTICALLY COPPER-PLATED BY GALVANIC PROCESS FURNISH UNITS IN TYPE 430 STAINLESS STEEL FRAMING</p>	<p><b>DRIP TRAY: DT-3</b> SURFACE MOUNTED DRIP TRAY, BRUSHED FINISH STAINLESS STEEL. SANTRAL MODEL DRIP TRAY NSU 11 TOUCHLESS SHORT</p> 	 <p>BRADLEY 8370-108</p>  <p>ASI 3413-25</p>  <p>BOBRICK GAMCO-125</p>	 <p>BRADLEY 8370-107</p>  <p>BOBRICK B-4998</p>	 <p>BOBRICK B-5892</p>
	<p><b>DRIP TRAY: DT-4</b> SURFACE MOUNTED DRIP TRAY, BRUSHED FINISH STAINLESS STEEL. SANTRAL MODEL DRIP TRAY NSU 11 TOUCHLESS</p> 			
		<p><b>FOLD DOWN GRAB BAR: FD-GRB-1</b> 18 GAUGE SATIN FINISH STAINLESS STEEL FOR SUPERIOR DURABILITY. HEAVY-DUTY SATIN FINISH STAINLESS STEEL. INTEGRAL TOILET PAPER DISPENSER. 30" (762MM)</p>	<p><b>FOLD DOWN GRAB BAR: FD-GRB-2</b> 18 GAUGE SATIN FINISH STAINLESS STEEL FOR SUPERIOR DURABILITY. HEAVY-DUTY SATIN FINISH STAINLESS STEEL. 30" (762MM)</p>	<p><b>BACK REST: BR</b> GRAB BAR: 18-8, TYPE-304 STAINLESS STEEL TUBING WITH STAIN DINISH. BACKREST: 360X160X40MM WHITE COLOURED POLYURETHANE INTEGRAL FOAM</p>



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ACCESSIBILITY UPGRADES

DRAWING TITLE:

WASHROOM ACCESSORIES












Project No: 9119- 19- 0162 / 122260

Date: 2025-09-08

Issue: ISSUED FOR TENDER

NO.

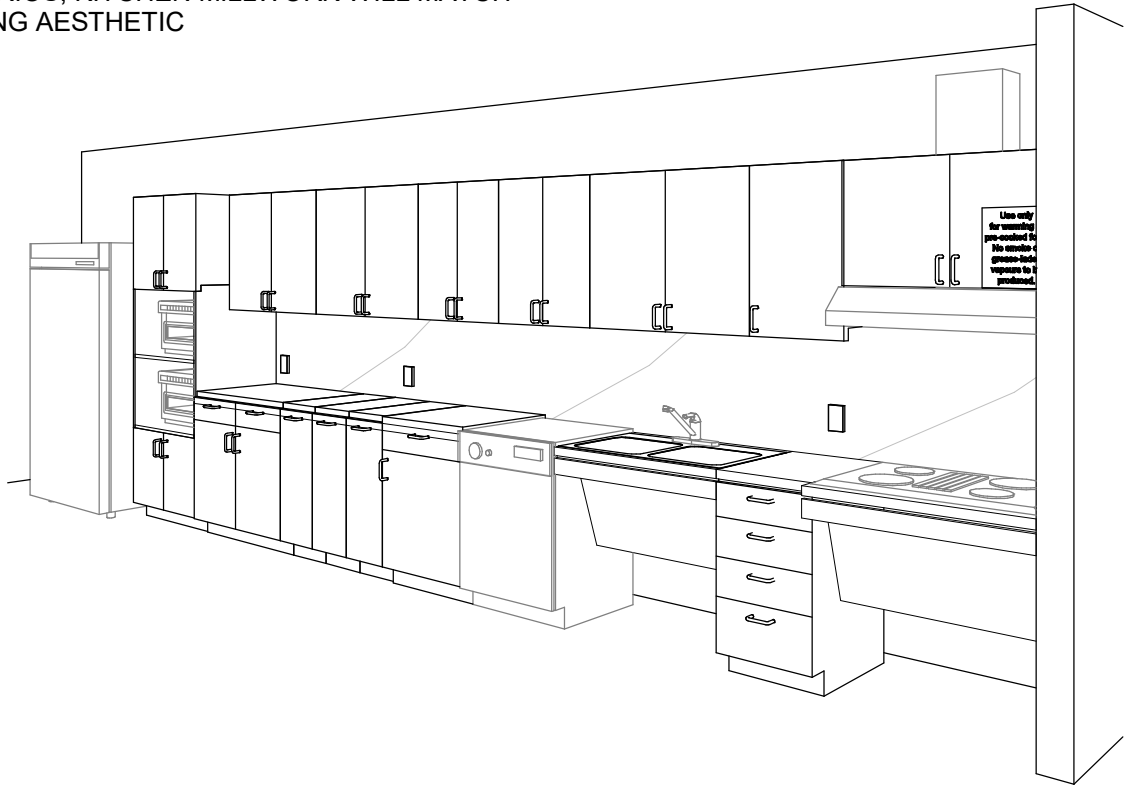
T02

				 	
<p><b>PAPER TOWEL DISPENSER &amp; WASTE RECEPTACLE: PTD/WR (SR)</b> <u>SEMI-RECESSED</u> B-38032: 18-8, TYPE 304, HEAVY-GAUGE STAINLESS STEEL. ALL-WELDED CONSTRUCTION.</p>	<p><b>PAPER TOWEL DISPENSER AND WASTE RECEPTACLE: PTD/WR (R)</b> <u>RECESSED CONVERTIBLE</u> B-3940: 18-8, TYPE 304, HEAVY-GAUGE STAINLESS STEEL. EXPOSED SURFACES HAVE STAIN-FINISH.</p>	<p><b>PAPER TOWEL DISPENSER AND WASTE RECEPTACLE: PTD/WR (S)</b> <u>SURFACE-MOUNTED</u> B-3699: 18-8, TYPE 304, 22-GAUGE (0.8mm) STAINLESS STEEL. ALL-WELDED CONSTRUCTION. EXPOSED SURFACES HAVE STAIN-FINISH.</p>	<p><b>HAND DRYER: HNDR</b> DYSON SPRAYED NICKEL 307174-01, NET WEIGHT: 2.9 KG / 6.17 LBS. H:39.3CM X W:19CM X D:10CM</p>	<p>BOBRICK 2892 <b>TOILET TISSUE DISPENSER: TPD-1</b> SURFACE-MOUNTED TYPE - 304, STAINLESS STEEL WITH STAIN FINISH, DOUBLE ROLL YPE, NON-CONTROLLED DELIVERY, TUMBLER KEY LOCKING MECHANISM, AND WIDE VIEWING SLOT.</p>	<p>BRADLEY 5424 <b>TOILET TISSUE DISPENSER: TPD-2</b> SURFACE-MOUNTED CIRCULAR, STAINLESS STEEL WITH STAIN FINISH, JUMBO ROLL, TUMBLER KEY LOCKING MECHANISM, AND VIEWING SLOT.</p>
				 	 
<p><b>PAPER TOWEL DISPENSER: PTD (S)</b> SURFACE MOUNTED B-2974: TYPE 304, 18 GUAGE STAINLESS STEEL. ALL-WELDED CONSTRUCTION.</p>	<p><b>PAPER TOWEL DISPENSER: PTD (R)</b> <u>RECESSED</u> B-35903: TYPE 304, HEAVY-GAUGE STAINLESS STEEL. ALL-WELDED CONSTRUCTION. EXPOSED SURFACES HAVE STAIN-FINISH.</p>	<p><b>PAPER TOWEL DISPENSER: PTD (SM)</b> <u>SURFACE-MOUNTED</u> B-9262: 304 GAUGE, 18 GAUGE ( 1,2MM) STAINLESS STEEL. ALL HELIARC WELDED CONSTRUCTION WITH WELL DEFINED EDGES AND CORNERS</p>	<p><b>PAPER TOWEL DISPENSER: PTD (PR)</b> <u>SURFACE-MOUNTED LEVER OPERATED</u> 2497: COVER: CONSTRUCTED OF HIGH-IMPACT PLASTIC. BACK: HEAVY-GAUGE POWDER-COATED STEEL BACK. PUSH LEVER: FIBERGLASS-REINFORCED ABS PLASTIC.</p>	<p>BRADLEY 5126  BOBRICK B-69997</p>	<p>BRADLEY 5402 BOBRICK B-2888</p> <p><b>TOILET TISSUE DISPENSER: TPD-3</b> SURFACE-MOUNTED DOUBLE-ROLL: TYPE-304, STAINLESS STEEL WITH STAIN FINISH, DOUBLE ROLL TYPE, ONE-PIECE SEAMLESS CONSTRUCTION WITH 4 MOUNTING HOLES, 18 GAUGE STAINLESS STEEL HOOD</p> <p><b>TOILET TISSUE DISPENSER: TPD-4</b> SURFACE-MOUNTED: MULTI-ROLL TYPE 22 GUAGE STAINLESS STEEL CABINET AND DOOR WITH STAIN FINISH AND HEAVY ABS ONE-PIECE THEFT RESISTANT SPINDLES</p>
<div><p>100 - 175 Galaxy Blvd, Unit 100 Toronto, ON M9W 0C9, Canada tel 416 679 1930 www.arcadis.com</p></div>	<div><p>CITY OF TORONTO ACCESSIBILITY UPGRADES</p></div>	<p>DRAWING TITLE:</p> <p>WASHROOM ACCESSORIES</p>	<p>Project No: 9119- 19- 0162 / 122260</p> <p>Date: 2025-09-08</p> <p>Issue: ISSUED FOR TENDER</p>	<p>NO.</p> <p>T02.1</p>	

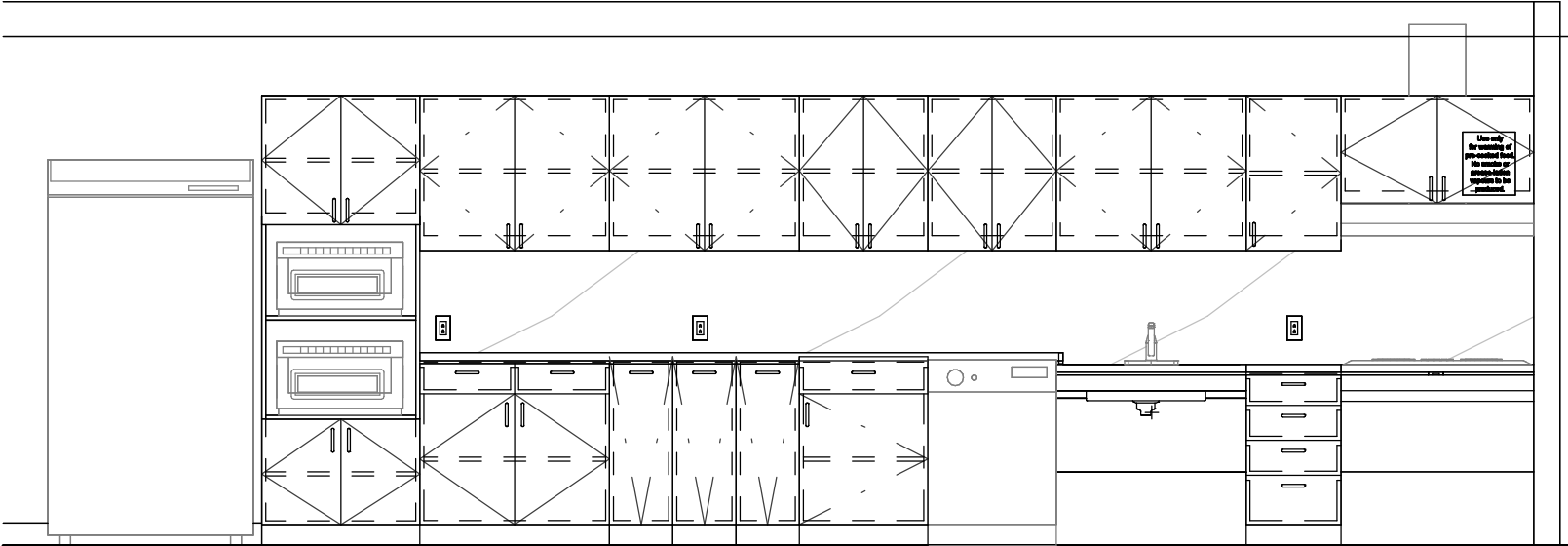


 <p><b>WALL MOUNTED SINK: (BARRIER FREE USE) L1H</b> DECORUM WALL HUNG LAVATORY WITH EVERCLEAN 9024.001EC.020 - VITREOUS CHINA, WHITE FINISH, WITH SINGLE FAUCET HOLE AND OVERFLOW</p>	 <p><b>COUNTER-MOUNTED SINK: L1</b> WHITE, SELF-RIMMING, REAR/FRONT OVERFLOW, DRILLED FOR 100 MM SUPPLY FITTING. AMERICAN STANDARD "AQUALYN" #0475.047.020 518 X 441 MM</p>	 <p><b>COUNTER-MOUNTED SINK: (BARRIER FREE USE) L2H</b> WHITE, FOR BARRIER FREE USE, SELF-RIMMING WITH SEALANT, OVERFLOW, DRILLED FOR 100 MM SUPPLY FITTING. AMERICAN STANDARD "AQUALYN" #0475.047.020 518 X 441 MM</p>	 <p><b>WALL MOUNTED SINK C/O WITH SHROUD: (BARRIER FREE USE) L3H</b> DECORUM WALL HUNG LAVATORY WITH EVERCLEAN NO. 9134.001EC/0059.020EC SHROUD - VITREOUS CHINA, WHITE FINISH, WITH SINGLE FAUCET HOLE AND OVERFLOW</p>	 <p><b>UNDER-MOUNTED SINK: (BARRIER FREE USE) L4H</b> WHITE, FOR BARRIER FREE USE WITH REAR OVERFLOW AND UNDERMOUNT CLIPS AMERICAN STANDARD OVALYN UNICERSAL ACCESS 9482.000 489 X 400MM</p>	<p><b>DRINKING FOUNTAIN</b></p>  <p><b>DRINKING FOUNTAIN: DF</b> EZSDWSLK GALVANIZED STEEL WALL MOUNTED, WHEELCHAIR TYPE WATER COOLER WITH STAINLESS STEEL TOP, FRONT AND SIDE MOUNTED PUSH TO OPERATE LEVER(S), SENSOR, TOUCHLESS ACTIVATION WITH AUTO SHUT OFF BOTTLE FILLER, FLEXI-GUARD SAFETY BUBBLER, AND TRAP PACKAGE.</p>
<p><b>FAUCET: TO BE USED WITH ALL LAVATORY TYPES</b> MOEN ALIGN SENSOR FAUCET - 8559 ELECTRONIC 'NO-TOUCH' HARDWIRED POWERED FAUCET</p>					
 <p><b>TOILET: W1H</b> <u>WALL HUNG</u> - WHITE FINISH - VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE. NO. 3351.101.002</p>	 <p><b>TOILET: W2H</b> <u>FLOOR MOUNTED</u> WHITE FINISH - VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE. NO. 3461.001.020</p>	 <p><b>TOILET WITH TANK: W3H</b> <u>FLOOR MOUNTED</u> WHITE FINISH - VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE. PA TANK, 1.1 GPF WHITE</p>	 <p><b>URINAL: U1H</b> WALL HUNG 6590.001.020 - WASHBROOK FLOWISE - EXTENDED SIDES FOR PRIVACY - WASHDOWN ACTION - FLUSHING RIM - 19 MM DIA.</p>		
 <p>100 - 175 Galaxy Blvd, Unit 100 Toronto, ON M9W 0C9, Canada tel 416 679 1930 www.arcadis.com</p>	 <p>CITY OF TORONTO ACCESSIBILITY UPGRADES</p>	DRAWING TITLE: <b>WASHROOM FIXTURES &amp; DRINKING FOUNTAIN</b>		Project No: 9119- 19- 0162 / 122260  Date: 2025-09-08  Issue: ISSUED FOR TENDER	NO.  <b>T03</b>

ONLY WHEN ENTIRE KITCHEN MILLWORK IS TO BE REMOVED (UPPER AND LOWERS) ALL OTHER SCENARIOS, KITCHEN MILLWORK WILL MATCH EXISTING AESTHETIC

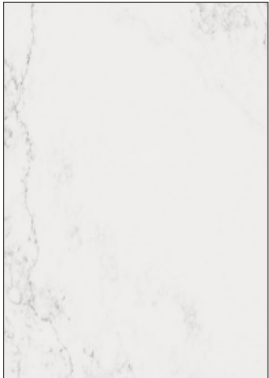


PERSPECTIVE: N.T.S



ELEVATION: N.T.S

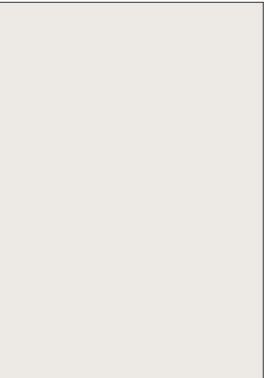
PERSPECTIVE & ELEVATION VIEWS ARE REPRESENTATIVE ONLY - REFER TO BUILDING-SPECIFIC DRAWINGS



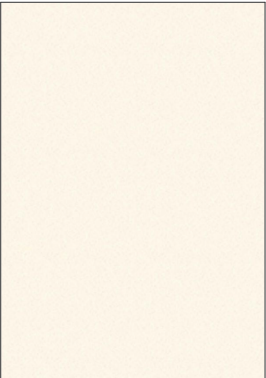
COUNTERTOP AND BACKSPLASH: Q-1  
CAESARSTONE - QUARTZ  
SUPERNATURAL COLLECTION  
1111 VIVID WHITE



CABINETS: PLAM-1  
PLASTIC LAMINATE  
WILSONART NORTH  
SEA D90



PAINT: PT-1  
SHERWIN WILLIAMS SW  
7004 SNOWBOUND  
PAINT SHIELD EGGSHEL  
SHEEN



UPPER CABINETS:  
PLAM-2  
PLASTIC LAMINATE  
WILSONART  
ALABASTER D431



S1  
FAUCET:  
AMERICAN STANDARD NO.  
7074100.00  
SINK:  
UCS6105P-1 SINGLE BOWL



S2  
FAUCET:  
AMERICAN STANDARD NO.  
7074100.00  
SINK:  
FRANKE COMMERCIAL  
UCD6405P



S3  
FAUCET:  
MOEN ALIGN WITH  
MOTIONSENSE NO. 7565EC  
SINK:  
UCS6105P-1 SINGLE BOWL



S4  
FAUCET:  
MOEN ALIGN WITH  
MOTIONSENSE NO. 7565EC  
SINK:  
FRANKE COMMERCIAL  
UCD6405P



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DRAWING TITLE:

KITCHEN MATERIALS AND FIXTURES

Project No: 9119- 19- 0162 / 122260

Date: 2025-09-08

Issue: ISSUED FOR TENDER

NO.

T04



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RESERVED

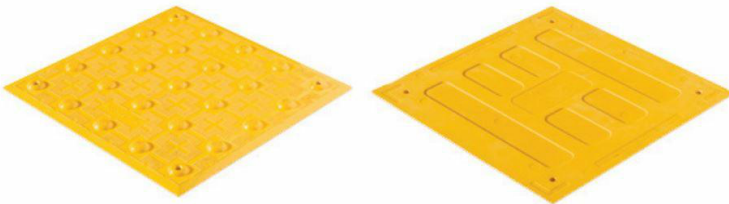
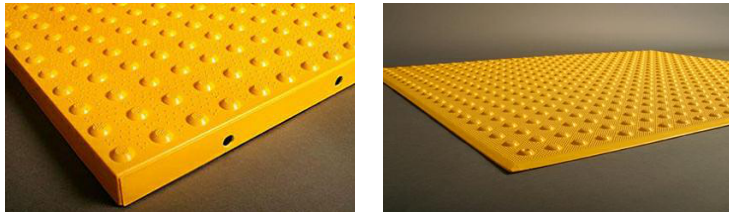
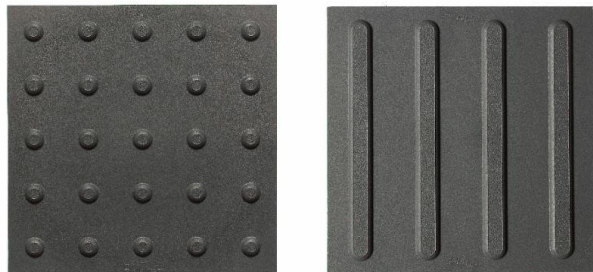
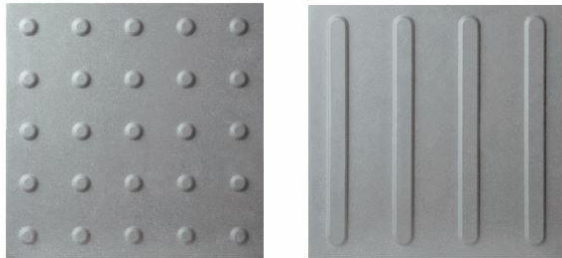
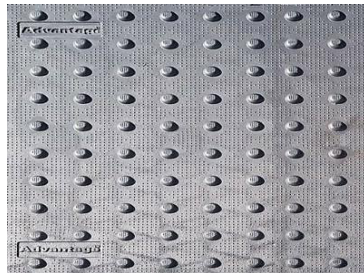
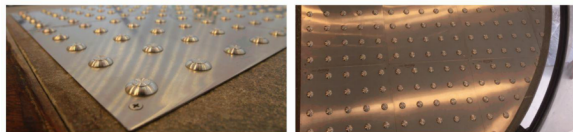

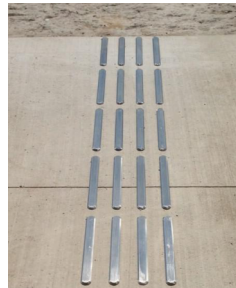



**Project No:** 9119- 19- 0162 / 122260

**Date:** 2025-09-08




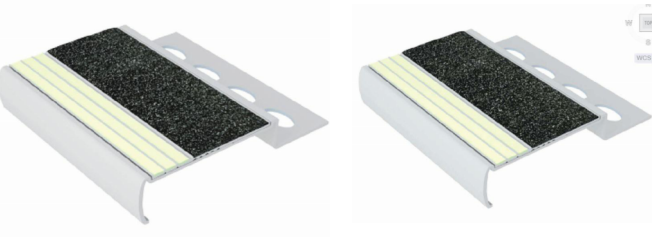
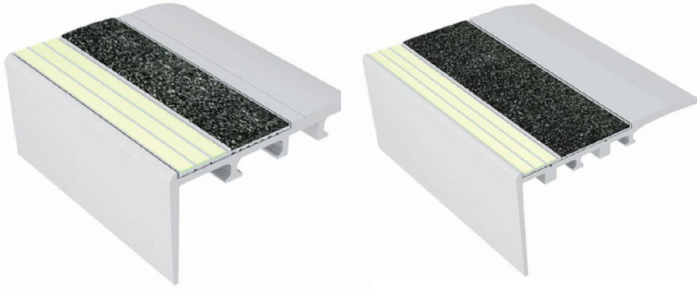




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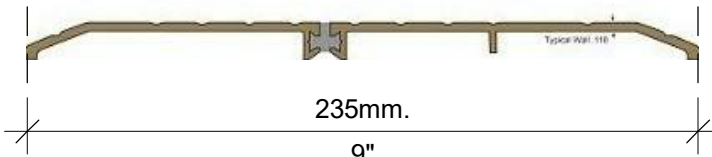

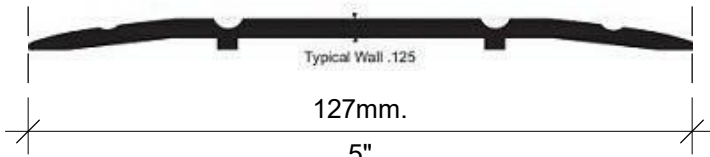



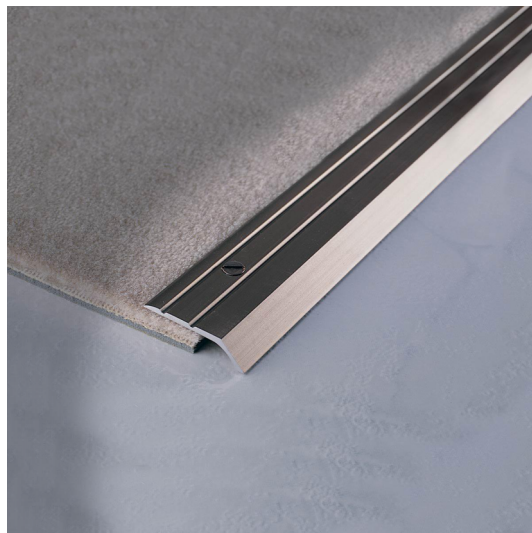


**NO.**

T05

 <p><b>TA - 1a (SURFACE MOUNTED) INTERIOR AND EXTERIOR</b> <b>TA - 1b (CAST IN PLACE) EXTERIOR</b> <b>TA - 1c (SURFACE MOUNTED FIRE RATED) INTERIOR</b></p> <p>POLYMER, COMPOSITE TACTILE INDICATORS</p> <ul style="list-style-type: none"><li>• SURFACE APPLIED SUITABLE FOR INTERIOR APPLICATIONS</li><li>• FIRE RATED TILES FOR INTERIOR APPLICATIONS HIGHER THAN 6 FLOORS</li><li>• CAST IN PLACE SUITABLE FOR EXISTING</li></ul>	 <p><b>TA - 2a (SURFACE MOUNTED) INTERIOR AND EXTERIOR</b> <b>TA - 2b (CAST IN PLACE) EXTERIOR</b></p> <p>ENGINEERED POLYMER COMPOSITE TACTILE INDICATORS</p> <ul style="list-style-type: none"><li>• EXTERIOR APPLICATIONS</li><li>• FOR NEWLY CONSTRUCTED CURBS RAMPS, STAIRS, RAMPS, OR PLATFORM EDGES</li></ul>	 <p><b>TA - 3</b></p> <p>TRUNCATED DOMES      WAYFINDING BARS</p> <p>RESILIENT POLYMER TACTILE INDICATORS</p> <ul style="list-style-type: none"><li>• INTERIOR OR EXTERIOR APPLICATIONS</li><li>• TRUNCATED DOME OR WAYFINDING BAR VARIANTS.</li><li>• FOR SKATE RINK EDGES OR USE WITH VCT FLOORING</li></ul>	 <p><b>TA - 4</b></p> <p>TRUNCATED DOMES      WAYFINDING BARS</p> <p>PORCELAIN TACTILE INDICATORS</p> <ul style="list-style-type: none"><li>• INTERIOR OR EXTERIOR APPLICATIONS</li><li>• TRUNCATED DOME OR WAYFINDING BAR VARIANTS.</li><li>• FOR USE WITH PORCELAIN TILE FLOORING</li></ul>	
 <p><b>TA - 5</b></p> <p>CAST IRON CAST IN PLACE TACTILE INDICATORS</p> <ul style="list-style-type: none"><li>• EXTERIOR APPLICATION</li><li>• HIGHLY DURABLE</li><li>• FOR NEW CONSTRUCTION HIGH TRAFFIC AREAS</li></ul>	 <p><b>TA - 6</b></p> <p>INDIVIDUAL STAINLESS STEEL PLATE TACTILE INDICATORS</p> <ul style="list-style-type: none"><li>• INTERIOR OR EXTERIOR APPLICATIONS</li><li>• FOR HIGH PROFILE ARCHITECTURAL SPACES WHERE AESTHETICS ARE IMPORTANT</li></ul>	 <p><b>TA - 7</b></p> <p>TRUNCATED DOMES:</p> <ul style="list-style-type: none"><li>• INDIVIDUAL STAINLESS STEEL TACTILE INDICATORS</li><li>• INTERIOR OR EXTERIOR APPLICATIONS</li><li>• CAN BE INSTALLED ON ALL SURFACES</li><li>• FOR HIGH PROFILE ARCHITECTURAL SPACES WHERE AESTHETICS ARE IMPORTANT</li><li>• TO BE USED ON NON-HERITAGE DESIGNATED STAIRS</li></ul>	 <p><b>TA - 8</b></p> <p>GUIDANCE BARS:</p> <ul style="list-style-type: none"><li>• INDIVIDUAL STAINLESS STEEL, BRASS, BRONZE OR ALUMINUM CARBORUNDUM NON-SLIP OR LINEAR GROOVE PATTERN.</li><li>• INTERIOR APPLICATIONS</li><li>• CAN BE INSTALLED ON ALL SURFACES</li><li>• FOR HIGH PROFILE ARCHITECTURAL SPACES WHERE AESTHETICS ARE IMPORTANT</li><li>• TO BE USED ON NON-HERITAGE DESIGNATED STAIRS</li></ul>	 <p><b>TA - 9</b></p> <p>INDIVIDUAL ANODIZED STAINLESS STEEL PLATE TACTILE INDICATORS</p> <ul style="list-style-type: none"><li>• INTERIOR OR EXTERIOR</li><li>• RESISTANT TO HEAVY TRAFFIC ABUSE AND MAINTENANCE MACHINERY</li><li>• APPLICATIONS FOR HIGH PROFILE ARCHITECTURAL SPACES WHERE AESTHETICS ARE IMPORTANT</li></ul>
<div><div><p>100 - 175 Galaxy Blvd, Unit 100 Toronto, ON M9W 0C9, Canada tel 416 679 1930 www.arcadis.com</p></div><div><p>CITY OF TORONTO ACCESSIBILITY UPGRADES</p></div></div>	<div><div>DRAWING TITLE:</div><div>TACTILE ATTENTION INDICATORS</div></div>	<div><div>Project No: 9119- 19- 0162 / 122260</div><div>Date: 2025-09-08</div><div>Issue: ISSUED FOR TENDER</div></div>	<div><div>NO.</div><div>T06</div></div>	



 <p><b>TA - 11 INTERIOR AND EXTERIOR TEXTURAL WARNING STRIP</b></p> <ul style="list-style-type: none"> <li>AFFIXED WITH ADHESIVE AND SCREWS</li> <li>SIZES: 50.8MM X 203MM</li> <li>REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH</li> </ul>	 <p><b>TA - 12 EXTERIOR CAST IN PLACE CONTRAST AND TEXTURAL WARNING STRIP</b></p> <ul style="list-style-type: none"> <li>DESIGNED FOR INSTALLATION ON STEP EDGES WHEN CONCRETE IS POURED.</li> <li>INSTALLED IN WET-SET CONCRETE.</li> <li>SIZES: 50.8MM X 76.2MM WIDE</li> <li>REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH</li> </ul>	 <p><b>TA - 16 INTERIOR AND EXTERIOR USE (ON EXISTING) ON SMOOTH SURFACES STAIR NOSING FOR: TILE, CONC, WOOD, CARPET, VINYL.</b></p> <ul style="list-style-type: none"> <li>ANODIZED ALUMINUM NOSE, INSTALLED WITH EITHER NON-SLIP STRIP OR WITH PHOTOLUMINESCENT CONTRAST STRIP.</li> <li>AVAILABLE IN 5 DIFFERENT PROFILES TO MATCH THE DESIGN OF THE STEP EDGE</li> <li>AFFLICTED WITH ADHESIVE OR ADHESIVE AND SCREWS</li> <li>SIZES: 70.1MM - 78.7MM WIDE</li> <li>REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH</li> </ul>	 <p><b>TA - 17 INTERIOR USE ON NEW TILED SURFACES. STAIR NOSING.</b></p> <ul style="list-style-type: none"> <li>ALUMINUM NOSE SPECIFICALLY DESIGNED FOR INSTALLATION ON TILED STAIRS.</li> <li>3.2MM TILED STAIRS OR 2.54MM TILED STAIRS.</li> <li>REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH</li> </ul>
 <p><b>TA - 18 INTERIOR USE ON NEW CARPETED FLOORING. STAIR NOSING.</b></p> <ul style="list-style-type: none"> <li>ANODIZED ALUMINUM NOSE, SPECIFICALLY DESIGNED FOR CARPETED STAIRS, INSTALLED WITH EITHER NON-SLIP STRIP OR WITH PHOTOLUMINESCENCE CONTRAST STRIP</li> <li>INSTALLED WITH SCREWS</li> <li>SIZES: 66MM - 89MM</li> <li>REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH</li> </ul>	 <p><b>TA - 19 EXTERIOR USE ON POURED CONCRETE. STAIR NOSING.</b></p> <ul style="list-style-type: none"> <li>HEAT TREATED EXTRUDED ALUMINUM ALLOY 6063-T-6, FILLED WITH A MIXTURE OF VIRGIN ALUMINUM OXIDE AND SILICON CARBIDE ABRASIVE GRANULES IN AN EPOXY BINDER.</li> <li>FULL LENGTH, INTEGRALLY EXTRUDED 5/8" ANCHOR.</li> <li>SIZES: 79.4MM X 25.4MM</li> <li>REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH</li> <li>TO BE USED ON NON-HERITAGE DESIGNATED STAIRS</li> </ul>	 <p><b>TA - 20 INDOOR AND OUTDOOR USE ON NEW POURED CONCRETE STAIR NOSING.</b></p> <ul style="list-style-type: none"> <li>INSTALL INTO WET CONCRETE. USED ON CONCRETE STAIRS, CONCRETE-FILLED STEEL PAN STAIRS, AND PRE-CAST CONCRETE STAIRS.</li> <li>AVAILABLE IN CUT TO LENGTH SIZES. (TOLERANCE +OR- 1/8")</li> <li>STANDARD LENGTHS ARE 8FT AND 10FT.</li> <li>INSERTS ATTACHED OR UNATTACHED – INSERTS UNATTACHED CAN BE INSTALLED LATER TO ENSURE THE PRODUCT IS CLEAN AND HAS NOT BEEN DAMAGED DURING CONSTRUCTION. INSERTS ARE INSTALLED WITH A PREMIUM POLYURETHANE ADHESIVE.</li> <li>A CLEAR PROTECTIVE TAPE WRAPS AROUND THE PRODUCT TO KEEP THE PRODUCT CLEAN DURING INSTALLATION. TO REMOVE, CUT THE TAPE ALONG THE EDGES AND PEEL AWAY.</li> </ul>	
 <p>100 - 175 Galaxy Blvd, Unit 100 Toronto, ON M9W 0C9, Canada tel 416 679 1930 www.arcadis.com</p>	 <p>CITY OF TORONTO ACCESSIBILITY UPGRADES</p> <p>DRAWING TITLE: <b>TEXTURAL &amp; COLOUR CONTRAST WARNING STRIP AND NOSING</b></p>	<p><b>Project No:</b> 9119- 19- 0162 / 122260</p> <p><b>Date:</b> 2025-09-08</p> <p><b>Issue:</b> ISSUED FOR TENDER</p>	<p>NO.</p> <p><b>T07</b></p>

<div>TH-1a</div> <div>SMOOTH 6" WIDE THRESHOLD WITH ANTI-SLIP COATING</div> <div></div>	<div>TH-2a</div> <div>EXTERIOR APPLICATIONS - THERMALLY BROKEN METAL THRESHOLD ANY EXISTING FLOORING MATERIAL TO ANY EXISTING FLOORING MATERIAL</div> <div></div>	<div>TH-3a</div> <div>METAL THRESHOLD ANY EXISTING FLOORING MATERIAL TO ANY EXISTING FLOORING MATERIAL</div> <div></div>	<div>TH-4a</div> <div>ANODIZED ALUMINUM TRANSITION STRIP BETWEEN NEW AND EXISTING FLOOR</div> <div></div>		
<div>TH-6a</div> <div>POLISHED BRASS, SELF ADHERED. FOR NEW AND EXISTING FLOORING ON BOTH SIDES VARIOUS HEIGHTS.</div> <div></div>		<div>TH-7a</div> <div>POLISHED STAINLESS STEEL. INSTALLED WITH SELF-THIN-SET MORTAR, DRILLED AND/OR PRE-DRILLED. NEW AND EXISTING FLOORING ON BOTH SIDES. VARIOUS HEIGHTS. (INTERIOR AND EXTERIOR APPLICATION)</div> <div></div>			
<div><div>100 - 175 Galaxy Blvd, Unit 100 Toronto, ON M9W 0C9, Canada tel 416 679 1930 www.arcadis.com</div></div> <div><div>CITY OF TORONTO ACCESSIBILITY UPGRADES</div></div>		<div>DRAWING TITLE:</div> <div>DOOR THRESHOLDS &amp; TRANSITIONS</div>		<div>Project No: 9119- 19- 0162 / 122260</div> <div>Date: 2025-09-08</div> <div>Issue: ISSUED FOR TENDER</div>	<div>NO.</div> <div>T08</div>



# CITY OF TORONTO ACCESSIBILITY UPGRADES

9119-19-0162 / IBI 122260

NEW PARAMEDICS STATION  
160 RIVALDA RD

GROUP 21  
SEQ 86



ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2023-02-17
E	ISSUED FOR REVISED PERMIT/100%	2023-08-31
F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT REV. 2	2024-06-13
H	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
I	ISSUED FOR TENDER	2025-09-08

CITY OF TORONTO  
ACCESSIBILITY UPGRADES  
PROGRAM GROUP 21

NOT FOR CONSTRUCTION

ISSUED FOR TENDER

PROJECT NO: 9119-19-0162 / IBI 122260	
DATE: 2025-09-08	
SHEET NUMBER G21-086-G0001	ISSUE I

GENERAL DRAWING INDEX	
SHEET NUMBER	SHEET NAME
G0001	COVER SHEET
G0002	DRAWING LIST AND OBC MATRIX

ARCHITECTURAL DRAWING INDEX	
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A0200	BASEMENT LIFE AND SAFETY PLAN
A0201	GROUND FLOOR LIFE AND SAFETY PLAN
A1001	DEMOLITION SITE PLAN - EXISTING WALKWAY
A1201	SITE PLAN
A1202	ENLARGED SITE PLAN
A1203	TREE PROTECTION AND INVENTORY PLAN
A2001	BASEMENT STAGING PLAN
A2002	BASEMENT COST SEPARATION PLAN
A2011	GROUND FLOOR AND MEZZANINE STAGING PLAN
A2012	GROUND FLOOR AND MEZZANINE COST SEPARATION PLAN
A2101	BASEMENT DEMOLITION PLAN
A2111	GROUND FLOOR AND MEZZANINE DEMOLITION PLAN
A2112	GROUND FLOOR AND MEZZANINE DEMOLITION - ENLARGED PLAN
A2401	BASEMENT PROPOSED PLAN
A2411	GROUND FLOOR AND MEZZANINE PROPOSED PLAN
A2412	GROUND FLOOR AND MEZZANINE PROPOSED - ENLARGED PLAN
A2601	BASEMENT FINISH PLAN
A2611	GROUND FLOOR AND MEZZANINE FLOOR FINISH PLAN
A2701	BASEMENT FURNITURE PLAN - LUNCH ROOM
A2711	MEZZANINE LEVEL FURNITURE PLAN
A2712	MEZZANINE LEVEL FURNITURE PLAN - ENLARGED PRIVATE OFFICES
A2713	MEZZANINE LEVEL FURNITURE PLAN - ENLARGED OPEN AREA

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A2811	GROUND FLOOR AND MEZZANINE REFLECTED CEILING PLANS
A2911	ROOF PLAN - DEMOLITION PLAN
A2912	ROOF PLAN - PROPOSED PLAN
A3011	PARTIAL BUILDING ELEVATIONS - DEMOLITION & PROPOSED
A3012	PARTIAL BUILDING ELEVATIONS & DOOR ELEVATIONS - PROPOSED
A3013	ROOF & WALL PENETRATIONS DETAILS
A5011	BASEMENT CHANGEROOM PLAN
A5012	BASEMENT CHANGEROOM WASHROOM STALLS PLANS & ELEVATIONS
A5013	BASEMENT CHANGEROOM WASHROOM STALLS PLANS & ELEVATIONS
A5014	GROUND FLOOR UNIVERSAL WASHROOM PLAN/ ELEVATIONS
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A5213	STAIR PLANS AND ELEVATIONS
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A5312	ELEVATOR DETAILS, ROOF AND PARAPET
A5314	ELEVATOR SECTIONS
A5315	ELEVATOR DETAILS AT ROOF AND PARAPET
A5316	ELEVATOR DETAILS
A6011	INTERIOR DOOR, GLAZING ELEVATIONS AND DETAILS
A7111	MILLWORK
A8000	SIGNAGE & WAYFINDING DETAILS - LEVEL B LOCATION PLAN
A8001	SIGNAGE & WAYFINDING DETAILS - LEVEL 1 LOCATION PLAN
A8002	SIGNAGE & WAYFINDING DETAILS - MESSAGE SCHEDULE
A8003	SIGNAGE & WAYFINDING DETAILS - MESSAGE SCHEDULE
A8004	SIGNAGE & WAYFINDING DETAILS - MESSAGE SCHEDULE
A9001	DOOR AND ROOM FINISH SCHEDULES

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SHEET NUMBER	SHEET NAME
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S1201	SITE PLAN
S2000	DEMOLITION PLAN
S2100	FOUNDATION DEMOLITION & PROPOSED PLAN
S2400	MEZZANINE LEVEL PLAN
S2401	GROUND FLOOR PLAN
S2500	BASEMENT DEMOLITION & PROPOSED PLAN
S2501	MEZZANINE LEVEL DEMOLITION & PROPOSED PLAN
S2502	ROOF DEMOLITION & PROPOSED PLAN
S2503	DRIVEWAY GATES AND PEDESTAL PLANS & DETAILS
S2504	EXTERIOR RAMP ENLARGED PLAN & DETAIL
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S5300	PLANS - ELEVATORS
S5301	PLANS - ELEVATORS
S5302	SECTIONS - ELEVATORS
S5303	EXISTING ROOF - PROPOSED
S5400	PLANS, SECTION - ESCALATORS
S5700	PLANS, SECTION - SOG
S6000	SECTIONS - ELEVATORS
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S6900	PLANS, SECTION - MISC

MECHANICAL DRAWING INDEX	
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M0201	EQUIPMENT SCHEDULE-1
M0202	EQUIPMENT SCHEDULE-2
M1101	DEMOLITION PLAN - BASEMENT
M1102	DEMOLITION PLAN - GROUND FLOOR OVERALL PLAN - 1
M1103	DEMOLITION PLAN - GROUND FLOOR OVERALL PLAN - 2
M1104	DEMOLITION PLAN - MEZZANINE FLOOR
M2101	PLUMBING - BASEMENT
M2102	PLUMBING - MEZZANINE FLOOR
M3101	DRAINAGE - BASEMENT
M3102	DRAINAGE - GROUND FLOOR OVERALL PLAN
M3103	DRAINAGE - MEZZANINE FLOOR
M5101	HVAC - BASEMENT
M5102	HVAC - GROUND FLOOR OVERALL PLAN
M5103	HVAC - MEZZANINE FLOOR
M5104	HVAC - ROOF
M6101	FIRE PROTECTION - BASEMENT
M6102	FIRE PROTECTION - GROUND FLOOR OVERALL PLAN - 1
M6103	FIRE PROTECTION - MEZZANINE FLOOR
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SHEET NUMBER	SHEET NAME
E0000	DRAWING LIST
E1000	ELECTRICAL SITE PLAN
E1100	ELECTRICAL DEMOLITION PLAN BASEMENT
E1101	ELECTRICAL DEMOLITION PLAN BASEMENT - ENLARGED PLAN
E1102	ELECTRICAL DEMOLITION PLAN UPPER LEVEL
E1103	ELECTRICAL DEMOLITION PLAN UPPER LEVEL - ENLARGED PLAN
E2100	BASEMENT KEY PLAN
E2101	POWER & SYSTEMS PLAN BASEMENT
E2102	UPPER LEVEL KEY PLAN
E2103	POWER & SYSTEM PLAN UPPER LEVEL
E2104	POWER & SYSTEMS PLAN ROOF
E3101	LIGHTING PLAN - BASEMENT
E3102	LIGHTING PLAN - UPPER LEVEL
E4001	FIRE ALARM RISER DIAGRAM
E4101	FIRE ALARM PLAN - BASEMENT
E4102	FIRE ALARM PLAN - UPPER LEVEL
E5001	AUXILIARY SYSTEMS SCHEMATIC
E5004	PANEL SCHEDULES

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CITY OF TORONTO



Corporate Real Estate Management  
Project Management Office  
Metro Hall Toronto, ON  
M5V 3C6

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Arcadis Professional Services (Canada) Inc.		
ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
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G	ISSUED FOR REVISED PERMIT REV. 2	2024-06-13
H	ISSUED FOR REVISED PERMIT	2024-10-24
I	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
J	ISSUED FOR TENDER	2025-09-08

CONSULTANTS

SEAL

PRIME CONSULTANT



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Toronto, ON M9W 0C9, Canada  
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www.arcadis.com

PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
STATION  
160 RIVALDA RD

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
A. KVASNIUK / M. V.

CHECKED BY:  
L. BANDIERA

PROJECT MGR:  
F. BOLOURIAN

APPROVED BY:  
E. FENUTA

SHEET TITLE

DRAWING LIST AND OBC  
MATRIX

SHEET NUMBER

G21-086-G0002

ISSUE

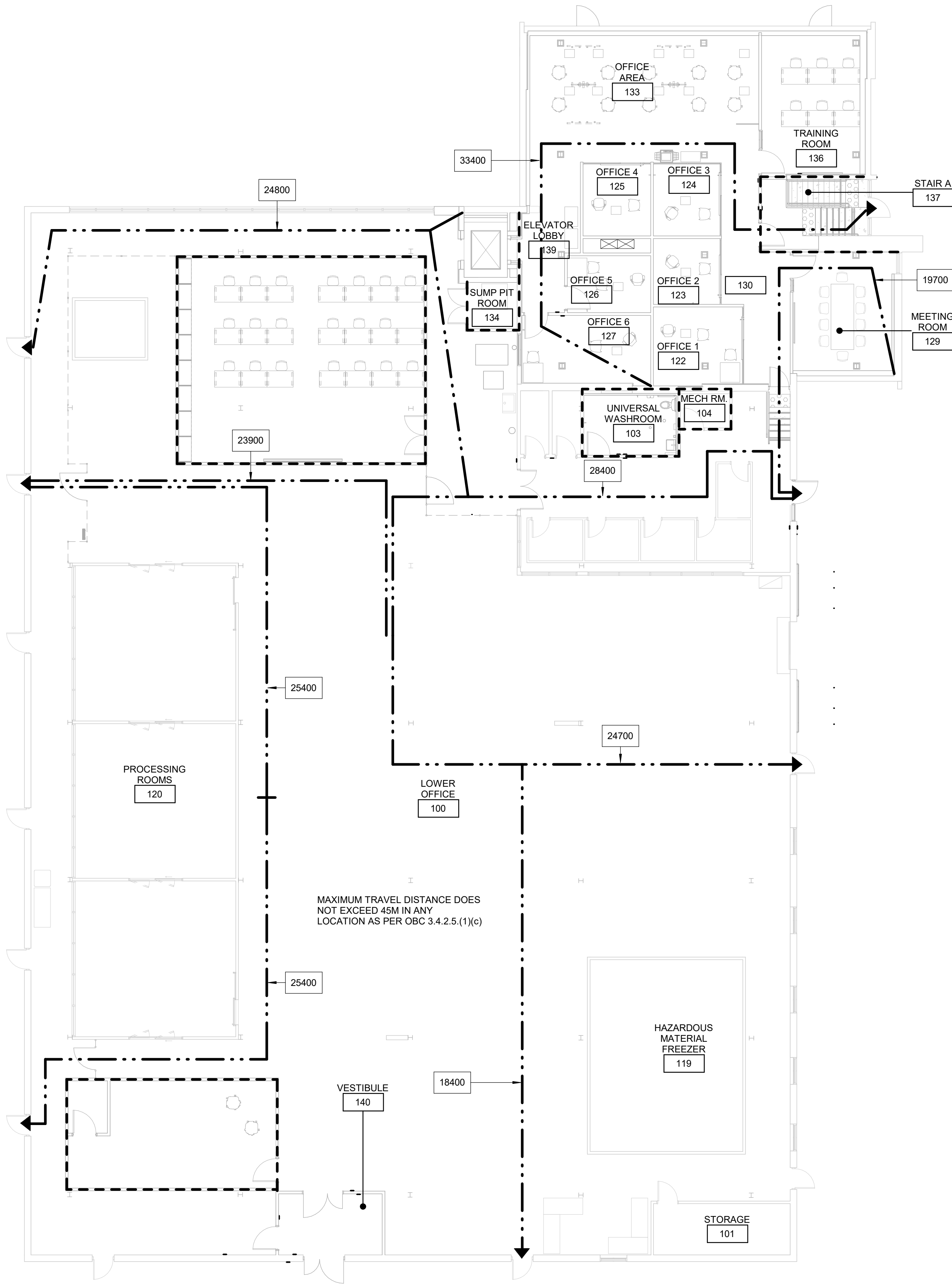
J

Firm Name: ARCADIS ARCHITECTS (CANADA) INC. CERTIFICATE OF PRACTICE NUMBER 5605				Name of Project EXISTING TWO STOREY OFFICE AND STORAGE WAREHOUSE RENOVATION TO ACCOMMODATE NEW PARAMEDICS PROCESSING CENTER WITH ACCESSIBILITY UPGRADES			
100-175 Galaxy Boulevard Toronto, ON M9W 0C9 T 416 679 1930 F 416 675 4620				Location 160 RIVALDA RD, NORTH YORK, ON M9M 2M6			
ITEM	Ontario's 2012 Building Code Data Matrix Part 3 or 9			OBC REFERENCE References are to Division B unless noted (A) for Division A or (C) for Division C		REMARKS	
1.	PROJECT DESCRIPTION	<input type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> CHANGE OF USE <input checked="" type="checkbox"/> Alteration	<input checked="" type="checkbox"/> PART 11 11.1 to 11.4	<input checked="" type="checkbox"/> PART 3	<input type="checkbox"/> PART 9		
2.	MAJOR OCCUPANCY(S) SUBSIDIARY OCCUPANCY(S)	GROUP D - BUSINESS AND PERSONAL SERVICE OCCUPANCIES GROUP F DIVISION 3 - LOW HAZARD INDUSTRIAL OCCUPANCIES		3.1.2.1. (1)	9.10.2.	EXISTING NO CHANGE	
3.	BUILDING AREA (m²)	EXISTING - 1940.5	NEW - 0	TOTAL - 1940.5	1.4.1.2. [A]	1.4.1.2. [A]	
4.	GROSS AREA (m²)	EXISTING - 2237.1	NEW - 0	TOTAL - 2237.1	1.4.1.2. [A]	1.4.1.2. [A]	EXISTING NO CHANGE
5.	NUMBER OF STOREYS	ABOVE GRADE - 2	BELOW GRADE - 1	PARTIAL	1.4.1.2. [A] & 3.2.1.1.	1.4.1.2. [A] & 9.10.4.	
6.	NUMBER OF STREETS/FIRE FIGHTER ACCESS - 1	EXISTING NO CHANGE		3.2.2.10. & 3.2.5.	9.10.20.		
7.	BUILDING CLASSIFICATION -	EXISTING NO CHANGE		3.2.2.67.	9.10.2.		
8.	SPRINKLER SYSTEM PROPOSED	<input checked="" type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> SELECTED COMPARTMENTS <input type="checkbox"/> SELECTED FLOOR AREAS <input type="checkbox"/> BASEMENT <input type="checkbox"/> IN LIEU OF ROOF RATING <input type="checkbox"/> NOT REQUIRED		3.2.2.67 3.2.1.5 3.2.2.17 INDEX	9.10.8.2   INDEX	EXISTING NO CHANGE	
9.	STANDPIPE REQUIRED STANDPIPE PROVIDED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.9.	N/A	EXISTING NO CHANGE	
10.	FIRE ALARM REQUIRED FIRE ALARM PROVIDED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.4.	9.10.18.	EXISTING NO CHANGE	
11.	WATER SERVICE/SUPPLY IS ADEQUATE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3.2.5.7.	N/A	EXISTING NO CHANGE	
12.	HIGH BUILDING	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.6.	N/A		
13.	CONSTRUCTION RESTRICTIONS ACTUAL CONSTRUCTION	<input type="checkbox"/> COMBUSTIBLE PERMITTED <input type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> BOTH REQUIRED <input type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> BOTH		3.2.2.67.	9.10.6.	EXISTING NO CHANGE	
14.	MEZZANINE (S) AREA m²	N/A		3.2.1.1. (3) - (8)	9.10.4.1.		
15.	OCCUPANT LOAD BASED ON	<input type="checkbox"/> m²/PERSON <input checked="" type="checkbox"/> DESIGN OF BUILDING		3.1.17.	4.9.13.	EXISTING NO CHANGE	
	1ST FLOOR:	OCCUPANCY	LOAD	PERSONS			
	2ND FLOOR:	OCCUPANCY	LOAD	PERSONS			
	MEZZANINE FLOOR:	OCCUPANCY	LOAD	PERSONS			
16.	BARRIER FREE DESIGN	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (EXPLAIN)		3.8.	9.5.2.	ONLY PROPOSED AREA OF WORK - COMPLIANT WITH CITY OF TORONTO ACCESSIBILITY DESIGN GUIDELINE DRAFT 2016 WHEN POSSIBLE	
17.	HAZARDOUS SUBSTANCES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.3.1.2 & 3.3.1.19	9.10.1.3.(4)		
18a.	REQUIRED FIRE RESISTANCE RATING (FRR)	HORIZONTAL ASSEMBLIES (FRR) (HOURS)	LISTED DESIGN NO. OR DESCRIPTION (SB-2)	3.2.2.67. & 3.2.1.4.	9.10.8. 9.10.9.		
		FLOORS NO CHANGE					
		ROOF NO CHANGE					
		MEZZANINE N/A					

ITEM	Ontario's 2012 Building Code Data Matrix Part 3 or 9										OBC REFERENCE References are to Division B unless noted (A) for Division A or (C) for Division C		REMARKS	
18b.	REQUIRED FIRE RESISTANCE RATING (FRR)	FRR OF SUPPORTING MEMBERS		LISTED DESIGN NO. OR DESCRIPTION (SB-2)						SB-2 TABLE 2.1.1.				
		FLOORS NO CHANGE								SB-2 TABLE 2.1.1.				
		ROOF NO CHANGE												
		MEZZANINE												
19.	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS										3.2.3.		9.10.14.	
	WALL	AREA OF EBF (m²)	LD (M)	L/H OR H/L	PERMITTED MAX. % OF OPENINGS	PROPOSED % OF OPENINGS	FRR (HOURS)	LISTED DESIGN OR DESCRIPTION	COMB. CONST.	COMB. CONST. NONC. GLAZING	NON-COMB. CONST.	EXISTING NO CHANGE		
	NORTH				-	0	-	-	-	-	-			
	SOUTH				-	0	-	-	-	-	-			
	EAST				-	0	-	-	-	-	-			
	WEST				-	0	-	-	-	-	-			
20.	PLUMBING FIXTURE REQUIREMENTS													
	MALE / FEMALE COUNT @ 70/2 = 35 EXCEPT AS NOTED OTHERWISE										<input checked="" type="checkbox"/> PART 3 <input type="checkbox"/> PART 9			
	MAJOR OCCUPANCY		GROUP D		OCCUPANT LOAD		OBC TABLE NUMBER		FIXTURES REQUIRED		FIXTURES PROVIDED			
					35 MALE		3.7.4.7.		3		7		3.7.4.7.	
					35 FEMALE		3.7.4.7.		3		7		3.7.4.7.	
21.	EXITS/ ACCESS TO EXIT-												EXISTING NO CHANGE	
22.	OTHER (DESCRIBE) -													
ITEM	Ontario Building Code Data Matrix - Part 11 - Renovation of Existing Building										OBC REFERENCE		REMARKS	
11.1	EXISTING BUILDING CLASSIFICATION:		DESCRIBE EXISTING USE: CONSTRUCTION INDEX: HAZARD INDEX: <input checked="" type="checkbox"/> NOT APPLICABLE (NO CHANGE OF MAJOR OCCUPANCY)							11.2.1. TABLE 11.2.1.1.A. TABLE 11.2.1.1.B. TO N				
11.2	ALTERATION TO EXISTING BUILDING IS:		BASIC RENOVATION <input checked="" type="checkbox"/> EXTENSIVE RENOVATION <input type="checkbox"/>							11.3.3.1. 11.3.3.2.				
11.3	REDUCTION IN PERFORMANCE LEVEL:		STRUCTURAL: BY INCREASE IN OCCUPANT LOAD: BY CHANGE OF MAJOR OCCUPANCY: PLUMBING: SEWAGE SYSTEM:							<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		11.4.2. 11.4.2.1. 11.4.2.2. 11.4.2.3.		
11.4	COMPENSATING CONSTRUCTION:		STRUCTURAL:  BY INCREASE IN OCCUPANT LOAD:  BY CHANGE OF MAJOR OCCUPANCY:  PLUMBING:  SEWAGE SYSTEM:							<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (EXPLAIN) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (EXPLAIN) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (EXPLAIN) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (EXPLAIN)		11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6		
11.5	COMPLIANCE ALTERNATIVES PROPOSED:		<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (GIVE NUMBERS)							11.5.1				







### LIFE AND SAFETY LEGEND

- 1.0 HOUR FIRE RATED SEPARATION
- ..... TRAVEL DISTANCE TO EXIT (T.D.)
- ▲ EXIT

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CITY OF TORONTO



Corporate Real Estate Management  
Project Management Office  
Metro Hall Toronto, ON  
M5V 3C6

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Arcadis Professional Services (Canada) Inc.

### ISSUES

No.	DESCRIPTION	DATE
A	ISSUED FOR PERMIT	2022-03-18
B	100% SUBMISSION	2023-02-17
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F	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
G	ISSUED FOR TENDER	2025-09-08

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### SEAL

### PRIME CONSULTANT



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Toronto, ON M9W 0C9, Canada  
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### PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

### PROJECT ADDRESS

NEW PARAMEDICS  
STATION  
160 RIVALDA RD

### PROJECT NO:

9119-19-0162 / IBI 122260

### DRAWN BY:

F. BOLOURIAN

### CHECKED BY:

L. BANDIERA

### PROJECT MGR:

F. BOLOURIAN

### APPROVED BY:

E. FENUTA

### SHEET TITLE

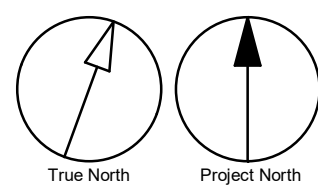
GROUND FLOOR LIFE  
AND SAFETY PLAN

### SHEET NUMBER

G21-086-A0201

### ISSUE

G



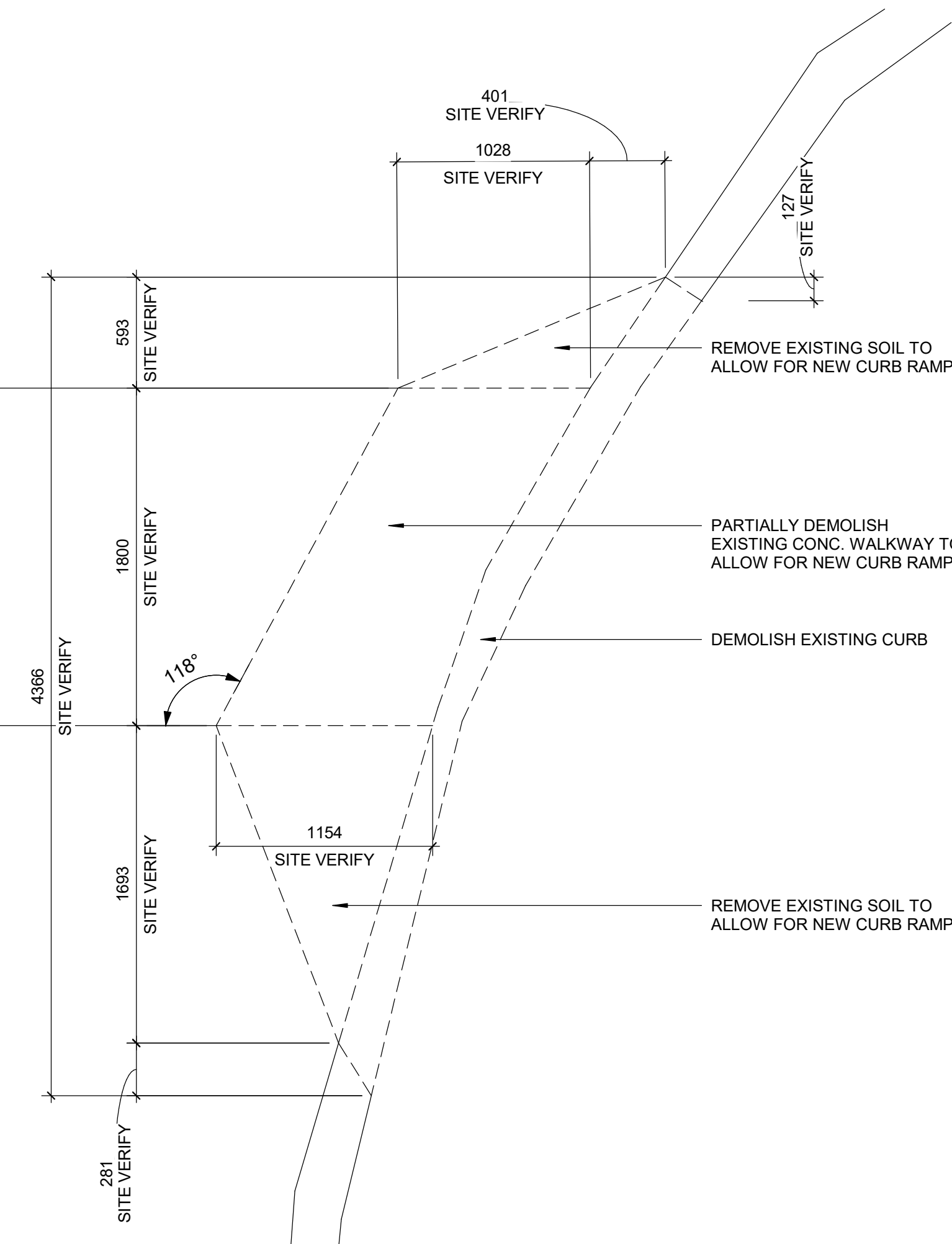
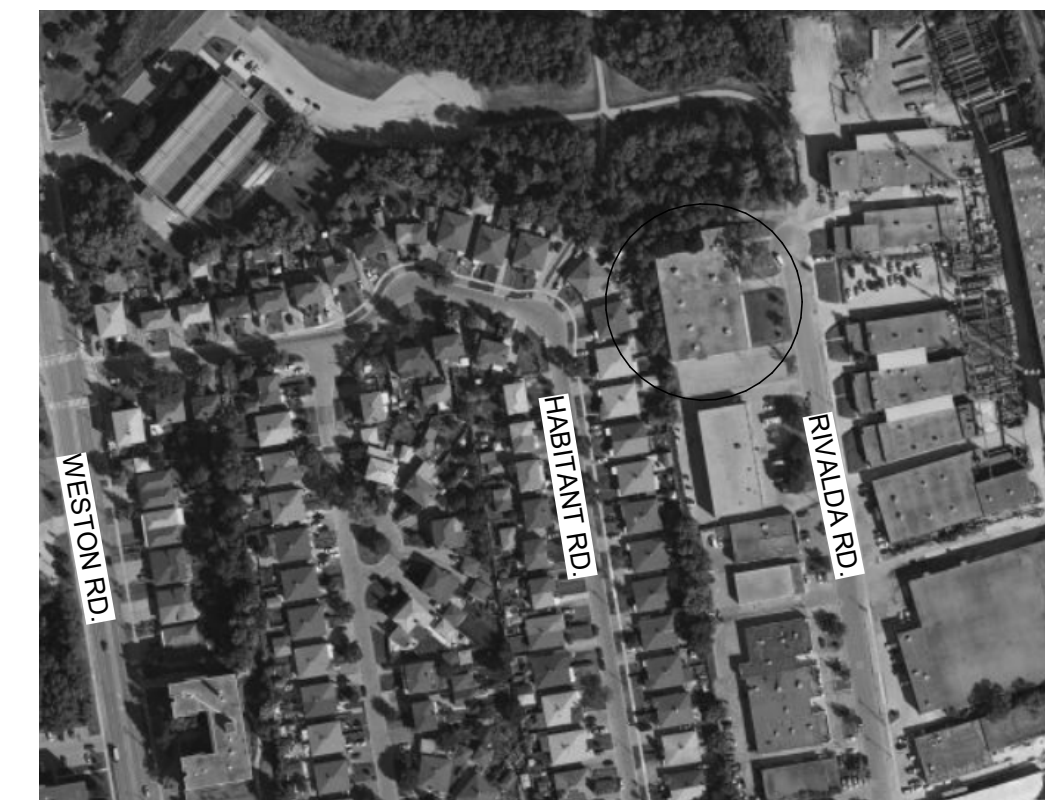
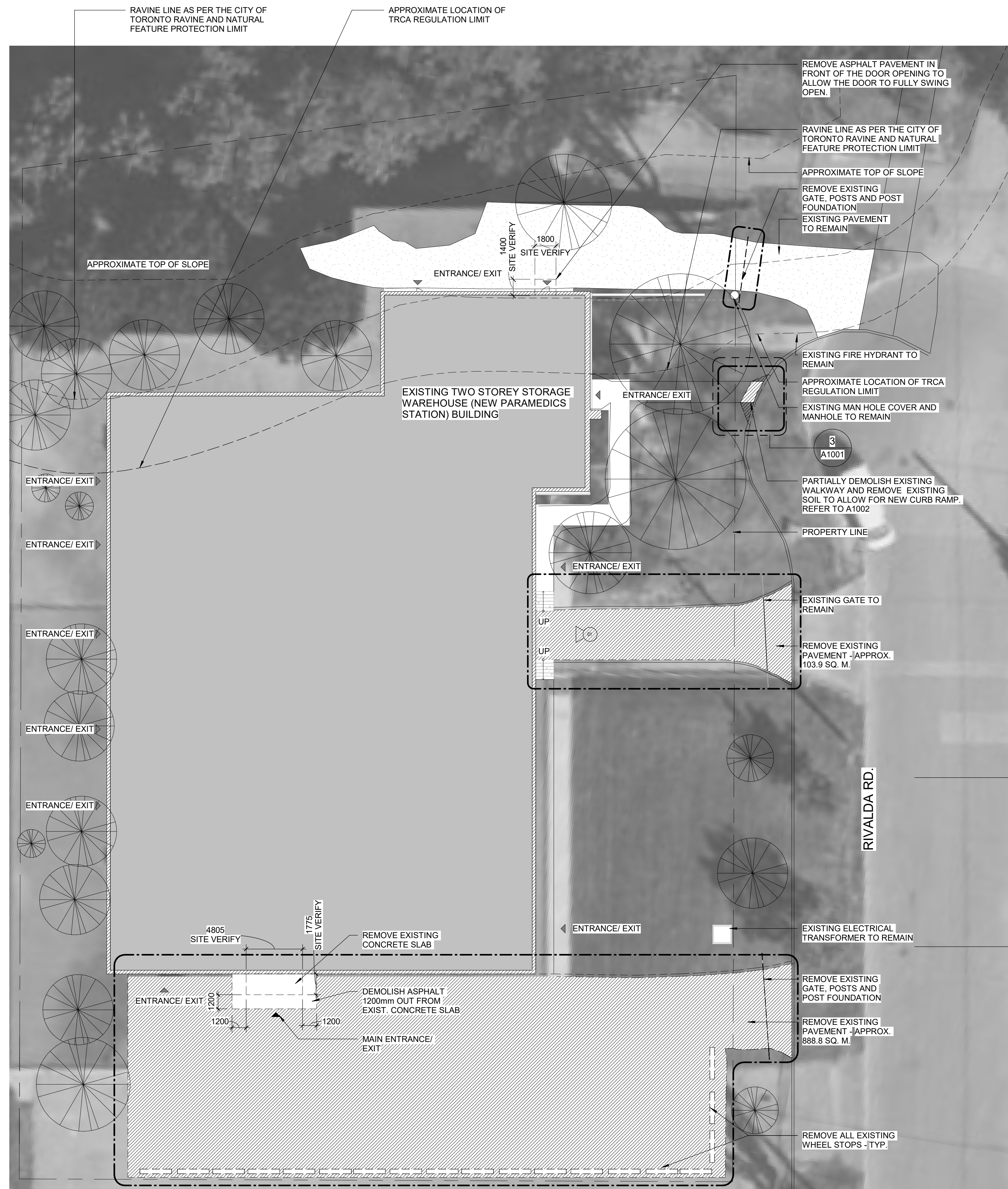
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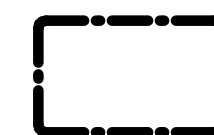
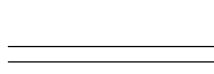
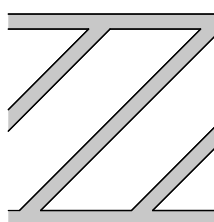
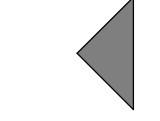
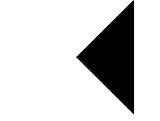
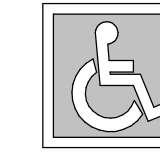
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## SITE LEGEND



## SITE PLAN GENERAL NOTES

- |   |   |
|---|---|
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| 2 | CONTRACTOR TO COORDINATE HOARDING AND FENCING FOR ENTRANCES WITH OWNER. RESTORE AFFECTED WALKWAY, DRIVEWAY, PAVING AND ALL SOFT LANDSCAPING TO EXCAVATED AND POST CONSTRUCTION. MATCH MATERIAL AND FINISH |
| 3 | VERIFY ALL UNDERGROUND UTILITIES PRIOR TO DIGGING AND REPORT ANY CONFLICTS TO THE CONSULTANT.   |

## RAVINE &amp; NATURAL FEATURE PROTECTION BY-LAW

THE RAVINE & NATURAL FEATURE PROTECTION BY-LAW,  
CHAPTER 658 OF THE CITY OF TORONTO MUNICIPAL CODE  
REGULATES THE INJURY AND DESTRUCTION OF TREES, DUMPING  
OF REFUSE AND CHANGES TO GRADE WITHIN PROTECTED AREAS  
DEFINED IN SCHEDULE A.

UNDER THIS BY-LAW PROTECTED TREES MAY NOT BE REMOVED, INJURED OR DESTROYED, AND PROTECTED GRADES MAY NOT BE ALTERED, WITHOUT WRITTEN AUTHORISATION FROM URBAN FORESTRY RAVINE & NATURAL FEATURE PROTECTION, ON BEHALF OF THE GENERAL MANAGER OF PARKS, FORESTRY & RECREATION.

CONVICTIONS OF OFFENCES RESPECTING THE REGULATIONS IN THE RAVINE & NATURAL FEATURE PROTECTION BY-LAW ARE SUBJECT TO FINES, AND THE LANDOWNER MAY BE ORDERED BY THE COURT TO RESTORE THE AREA TO THE SATISFACTION OF THE CITY. A PERSON CONVICTED OF AN OFFENCE UNDER THIS BY-LAW IS LIABLE TO A MINIMUM FINE OF \$500 AND A MAXIMUM FINE OF \$100,000 FOR EACH TREE DESTROYED, A MAXIMUM FINE OF \$100,000 FOR ANY OTHER OFFENCE COMMITTED UNDER THIS BY-LAW AND A FINE OF UP TO \$100,000 FOR EACH DAY OR PART OF A DAY THAT THE OFFENCE CONTINUES, INCLUDING FAILURE TO COMPLY WITH RAVINE PERMIT CONDITIONS IS LIABLE TO A MAXIMUM FINE OF NOT MORE THAN \$10,000 FOR EACH DAY OR PART OF A DAY THAT THE OFFENCE CONTINUES. RNFP 0608

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True North      Project North

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H	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
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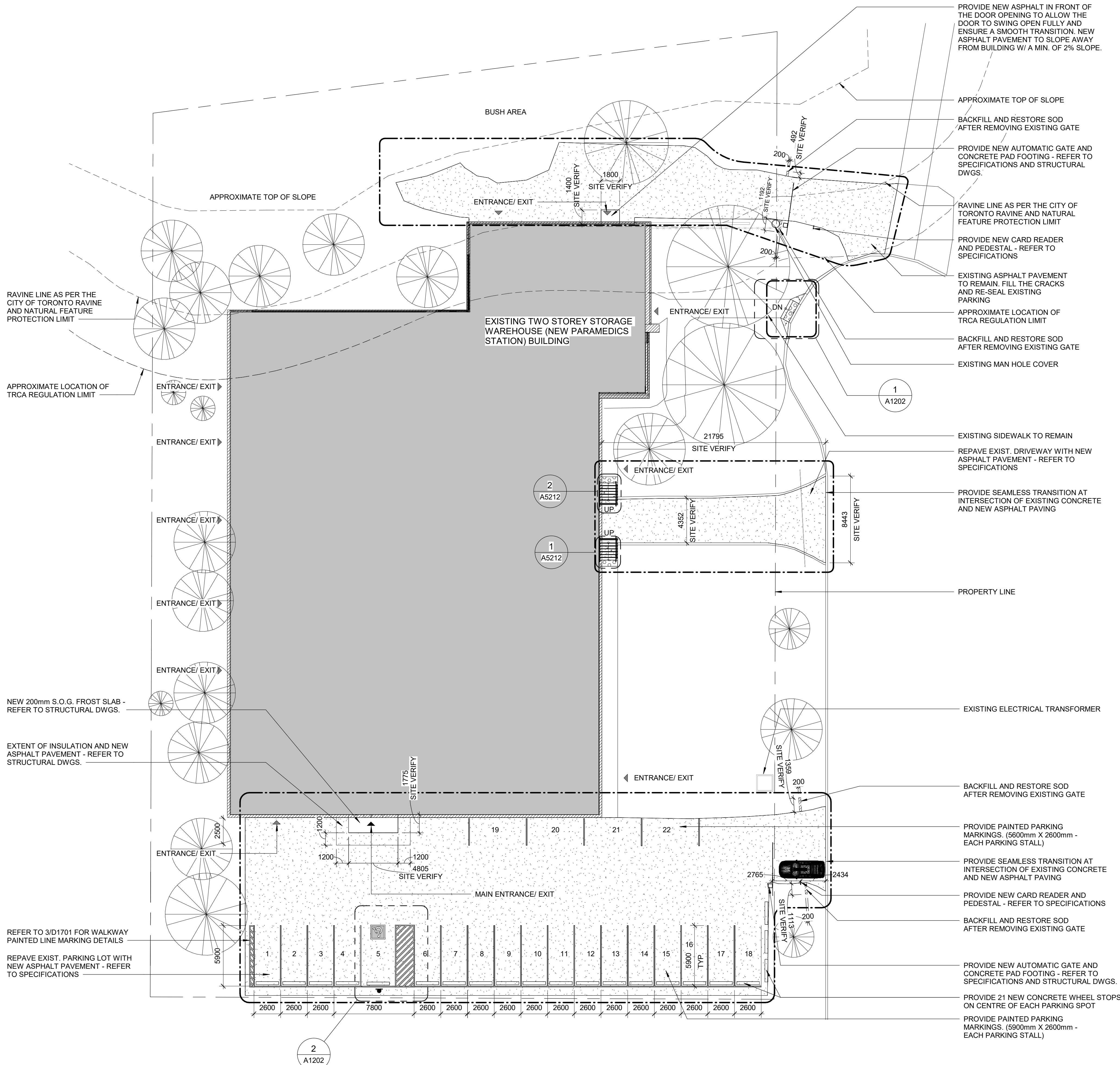
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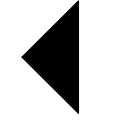
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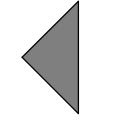
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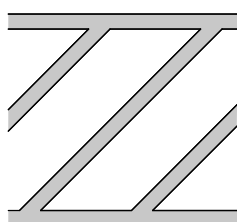
ACCESSIBLE PARKING SIGN ON POST - REFER TO DETAIL 2/D1702



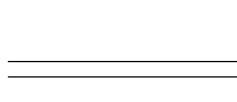
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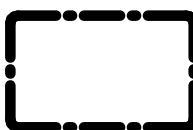
EXISTING EXIT TO REMAIN



NEW PAINTED LINE MARKING DETAIL - REFER TO DETAIL 3/D1701



NEW PAINTED LINE MARKING DETAIL - REFER TO DETAIL 4/D1701



DASHED AREA INDICATES AREA OF WORK

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RAVINE & NATURAL FEATURE PROTECTION BY-LAW

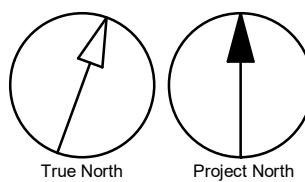
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PARKING SPACE STATISTICS

PARKING SPACES REQUIRED:	22
PARKING SPACES PROVIDED:	24
ACCESSIBLE PARKING SPACES REQUIRED:	1
ACCESSIBLE PARKING SPACES PROVIDED:	1



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J	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:

A. KVASNIUK

CHECKED BY:

L. BANDIERA

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

E. FENUTA

SHEET TITLE  
**SITE PLAN**

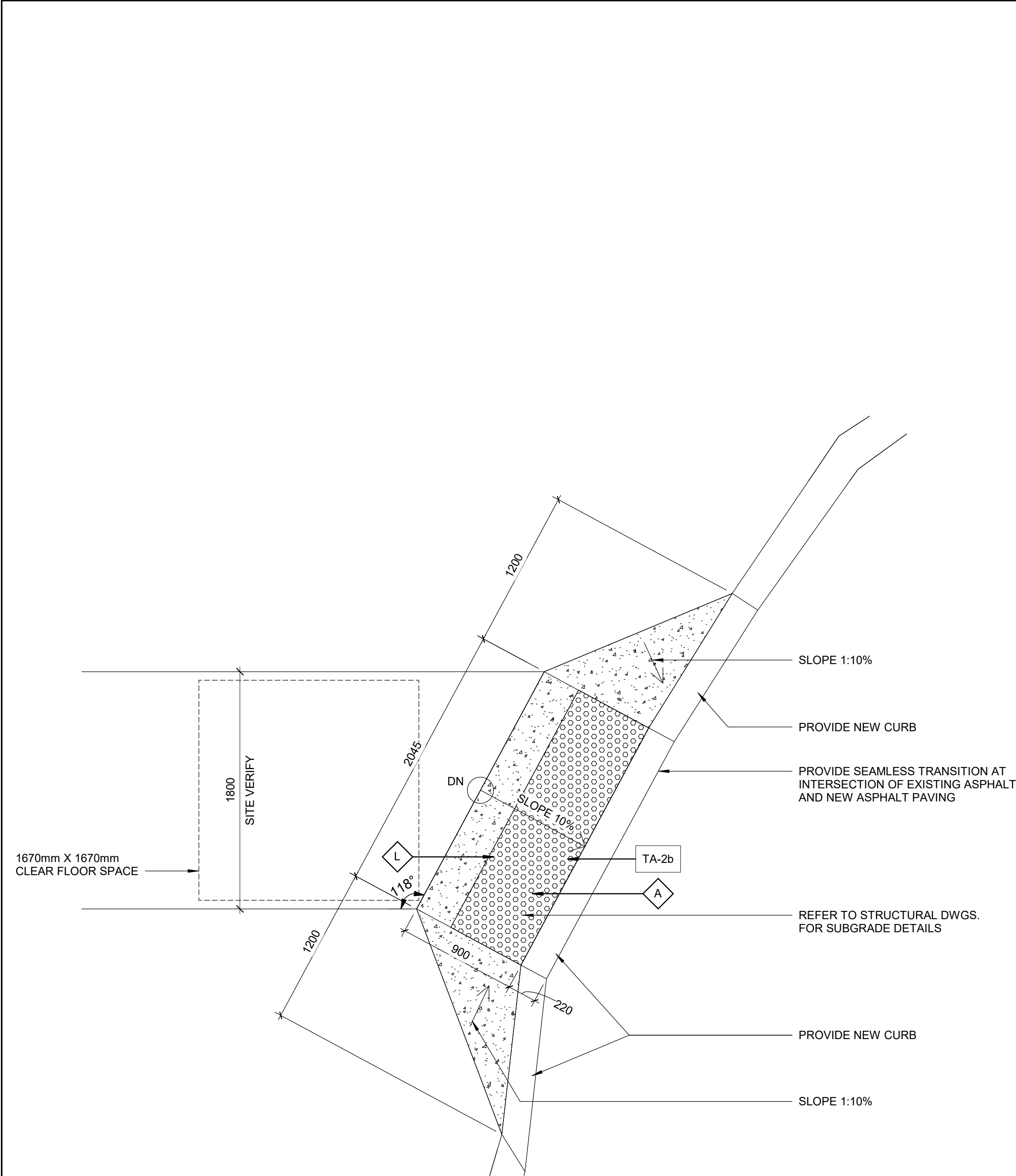
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**G21-086-A1201**

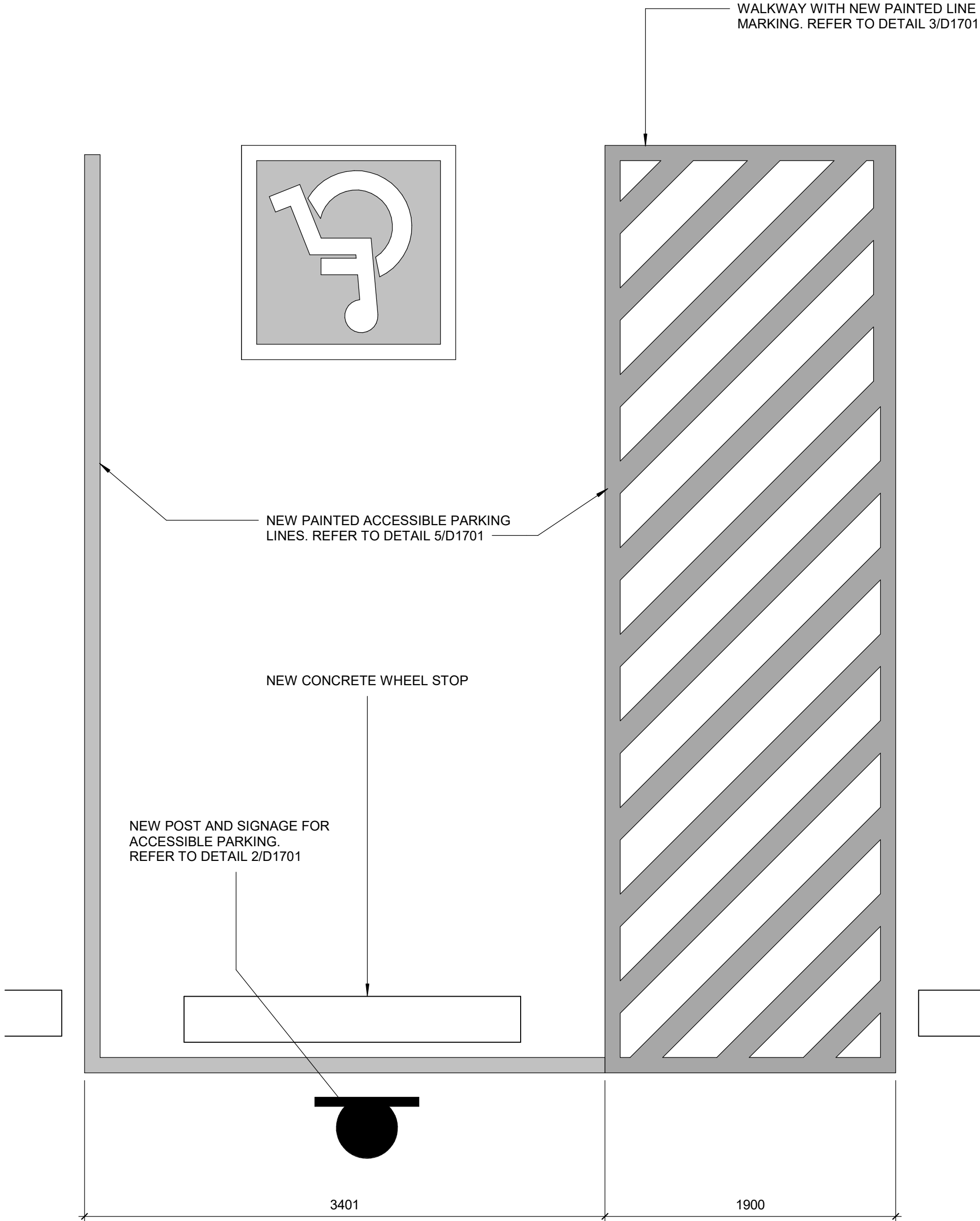
ISSUE

**J**





1 ENLARGED SITE PLAN - NEW CURB RAMP  
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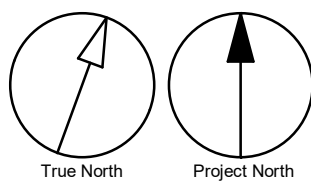
2 ENLARGED SITE PLAN - NEW ACCESSIBLE PARKING  
A1202 Scale: 1 : 25

**RAVINE & NATURAL FEATURE PROTECTION BY-LAW**

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ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**A. KVASNIUK**

CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIAN**

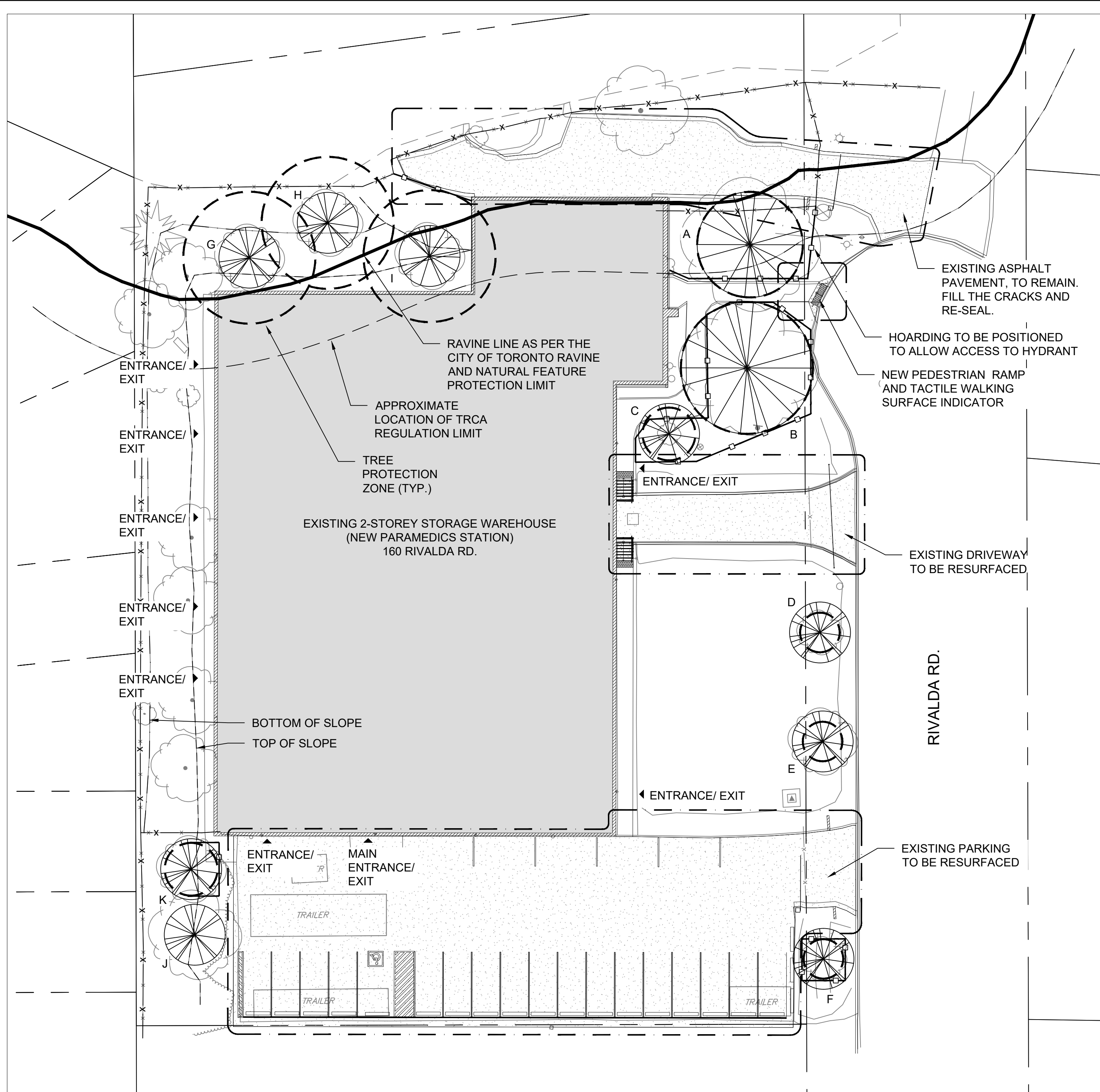
APPROVED BY:  
**E. FENUTA**

SHEET TITLE  
**ENLARGED SITE PLAN**

SHEET NUMBER  
**G21-086-A1202**

ISSUE  
**J**





TREE PROTECTION PLAN

1:250

1  
A1203

TREE INVENTORY TABLE

ID	Scientific Name	Common Name	DBH (cm)	Condition	TPZ (m)	Category	Action	Notes
A	Ulmus pumila	Siberian Elm	73	Fair-Poor	4.8	1	Injury	40-50% deadwood in crown
B	Ulmus pumila	Siberian Elm	90.5	Fair-Poor	6	1	Protection	40% deadwood in crown, exposed root system, codominant side branch
C	Gleditsia tricanthos var. inermis	Thornless Honeylocust	38.5	Good	2.4	1	Protection	
D	Quercus rubra	Red Oak	10.5	Good	1.8	5	No Impact	Mower damage at base of trunk
E	Catalpa speciosa	Northern Catalpa	16	Good	1.8	5	No Impact	
F	Pyrus sp.	Ornamental Pear	24	Good-Fair	1.8	5	Protection	Mower damage at base of trunk, poor pruning
G	Acer platanoides	Norway Maple	42.5	Good	6	4	Protection	Crimson variety based on aerial photos
H	Acer platanoides	Norway Maple	43	Good	6	4	Protection	Crimson variety based on aerial photos
I	Acer platanoides	Norway Maple	47	Good	6	4	Protection	Crimson variety based on aerial photos
J	Dead					N/A	No Impact	Tree is overgrown with vines
K	Malus sp.	Apple	Multi	Fair-Poor	2.4	N/A	Protection	Main stem appears to be dead with numerous young stems sprouted from the base of the trunk.



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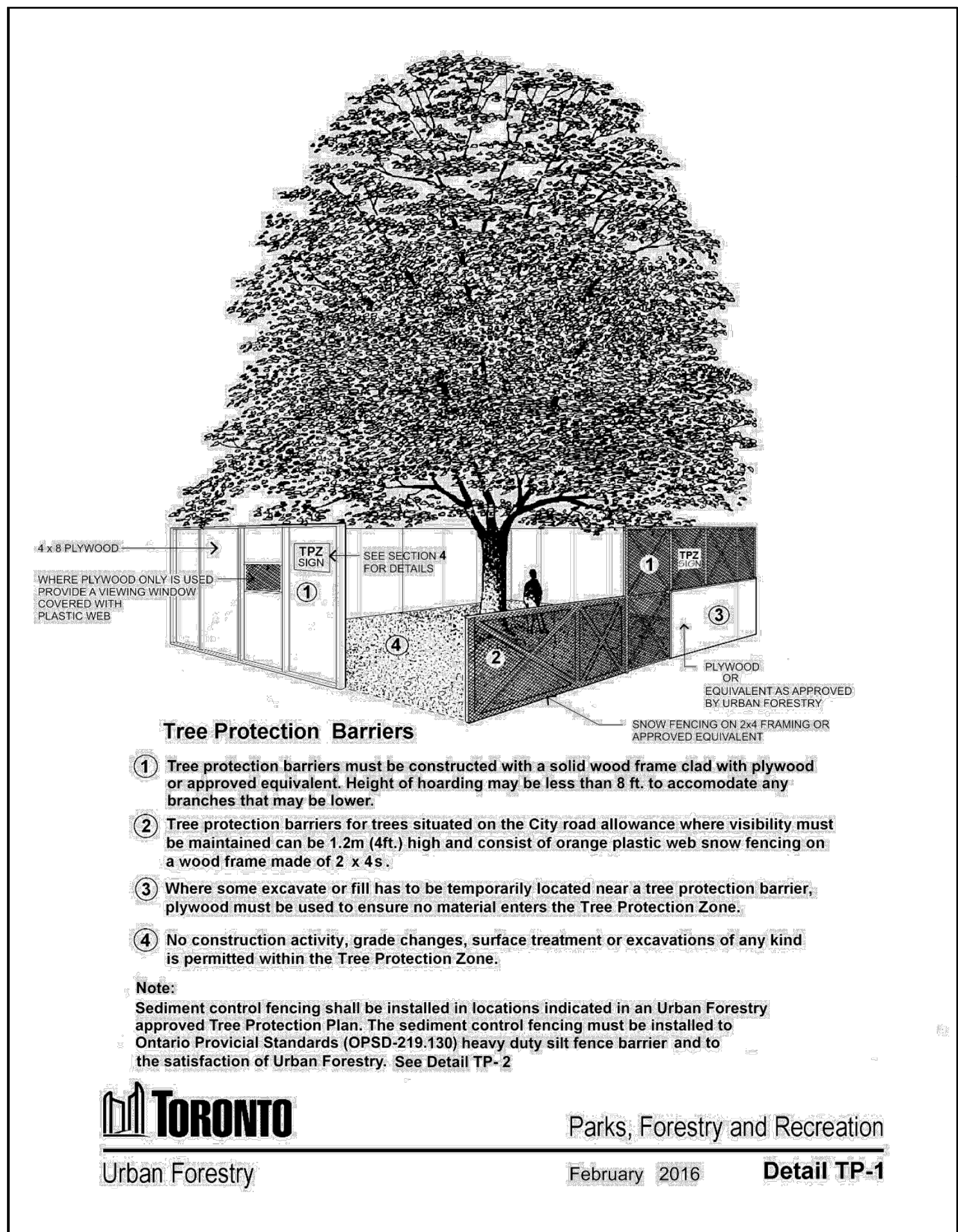
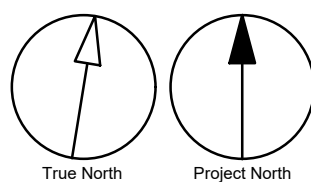
PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS  
Police No. 32 Division  
160 Rivalda Rd.

PROJECT NO: 9119-19-0162	IBI 122260
DRAWN BY: H. SERHAN	CHECKED BY: C. PILZ
PROJECT MGR: F. BOLOURIAN	APPROVED BY: C. PILZ

SHEET TITLE  
TREE PROTECTION AND  
INVENTORY PLAN

SHEET NUMBER G05-086-A1203	ISSUE 02
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Tree Protection Barriers

- Tree protection barriers must be constructed with a solid wood frame clad with plywood or approved equivalent. Height of hoarding may be less than 8 ft. to accommodate any branches that may be lower.
- Tree protection barriers for trees situated on the City road allowance where visibility must be maintained can be 1.2m (4ft.) high and consist of orange plastic web snow fencing on a wood frame made of 2 x 4s.
- Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

Note:  
Sediment control fencing shall be installed in locations indicated in an Urban Forestry approved Tree Protection Plan. The sediment control fencing must be installed to Ontario Provincial Standards (OPSD-219-130) heavy duty silt fence barrier and to the satisfaction of Urban Forestry. See Detail TP-2



Urban Forestry

Parks, Forestry and Recreation

February 2016

Detail TP-1

CITY OF TORONTO  
TREE PROTECTION DETAIL

N.T.S.

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A1203

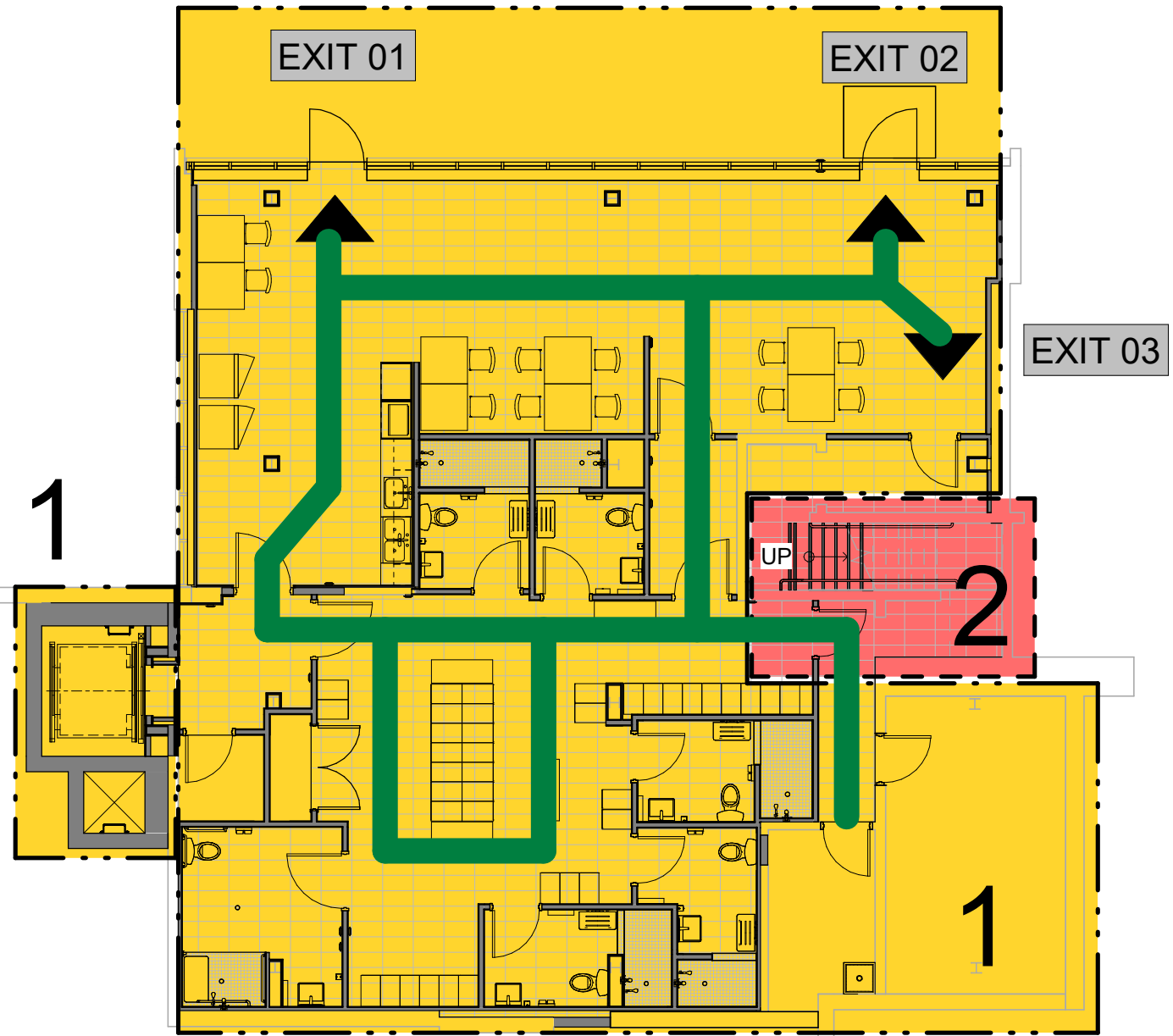
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CONSTRUCTION STAGING LEGEND

- STAGE 1
- STAGE 2
- EMERGENCY EXIT
- TRAVEL PATH

STAGING GENERAL NOTES

- 1 EXISTING FACILITY WILL REMAIN OPERATIONAL DURING CONSTRUCTION. CONSTRUCTION WORKS CAN NOT IMPACT FACILITY OPERATION WITHOUT FIRST NOTIFYING AND CONSULTING WITH THE OWNER.
- 2 ALL STAGES ARE TO BE COMPLETED IN SEQUENTIAL ORDER.
- 3 IF AN EXIT WILL BE BLOCKED DUE TO CONSTRUCTION, THE GC IS TO PROVIDE A TEMPORARY EXIT LOCATION THAT IS APPROVED BY THE ARCHITECT AND THE FIRE DEPARTMENT. SHOULD THE WORK BE ABLE TO BE COMPLETED OVER THE COURSE OF A WEEKEND OR AFTER HOURS, THE GC IS TO OBTAIN APPROVAL FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- 4 IF EXISTING FIRE ALARM SYSTEM NEEDS TO BE TEMPORARILY INTERRUPTED TO COMPLETE THE WORK, A FULL TIME FIRE WATCH SHALL BE PROVIDED.
- 5 CONTRACTOR SHALL ALLOW FOR THE FOLLOWING:  
A) TEMPORARY SIGNAGE  
B) TEMPORARY ACCESS WITH ACCESSIBLE RAMPS AS REQUIRED BY ONTARIO REGULATION 191/11 80.13
- 6 ALL STAGING INCLUDES BOTH DEMOLITION AND NEW SCOPE OF WORK.
- 7 PROVIDE AND MODIFY CONSTRUCTION BARRIER/SIGNAGE ETC. TO SUIT SITE CONDITION AND CONSTRUCTION SEQUENCE.
- 8 WORK LISTED IN STAGES IS FOR REFERENCE ONLY. COMPLETE EACH STAGE PER CONTRACT DOCUMENTS BEFORE STARTING THE NEXT STAGE. CONSTRUCTION WORK SHALL NOT AFFECT NORMAL OPERATION OR EXITING OF THE FACILITY.
- 9 FOR ALL OTHER REQUIREMENTS - REFER TO SPECIFICATIONS.
- 10 KEEP EXITS CLEAR FROM OBSTRUCTIONS DURING CONSTRUCTION.

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NEW PARAMEDICS  
STATION  
160 RIVALDA RD

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY: A. KVASNIUK	CHECKED BY: L. BANDIERA
PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUTA

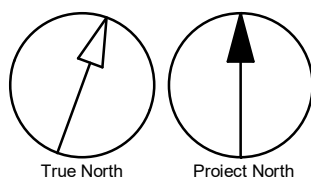
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BASEMENT STAGING  
PLAN

SHEET NUMBER

G21-086-A2001

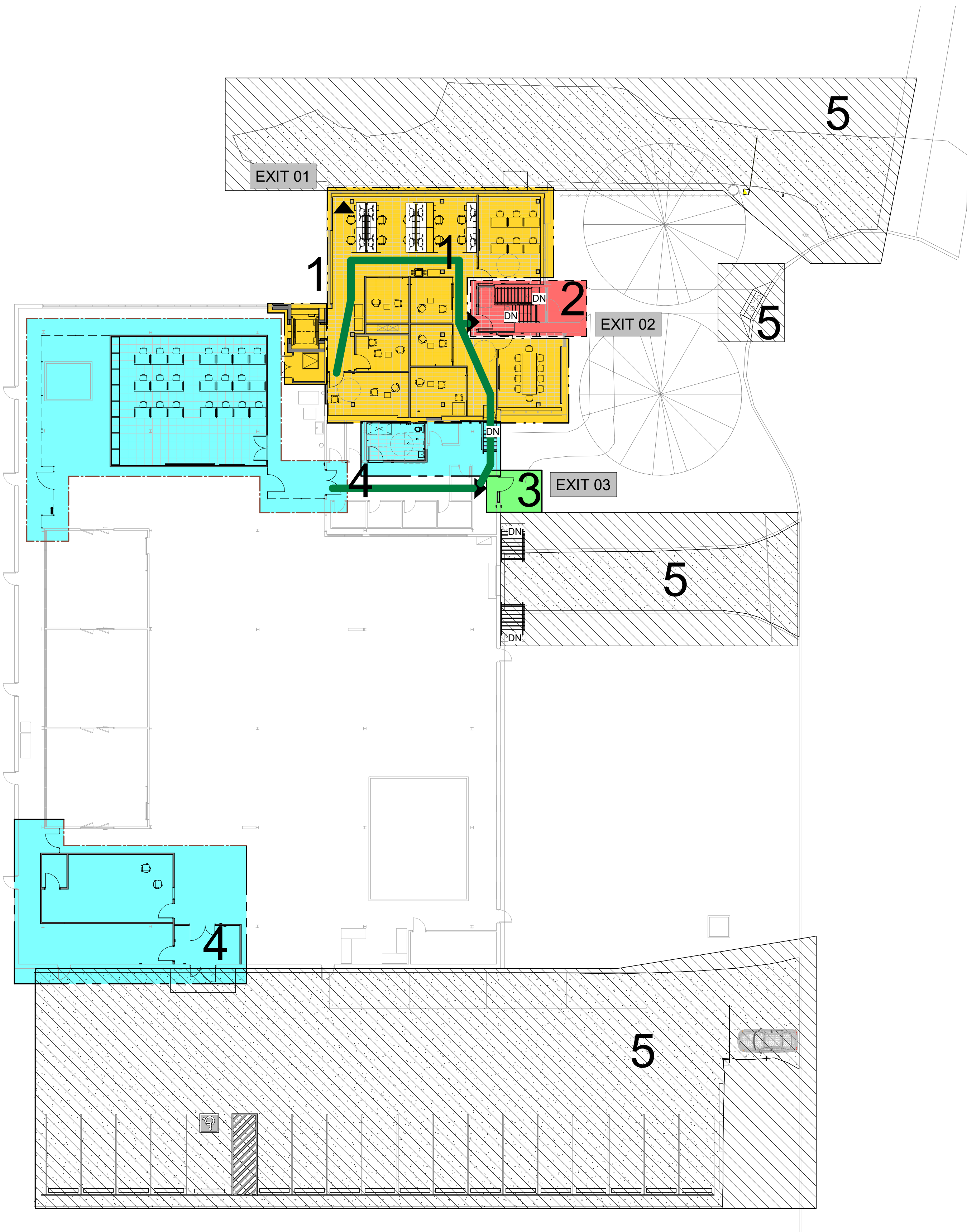
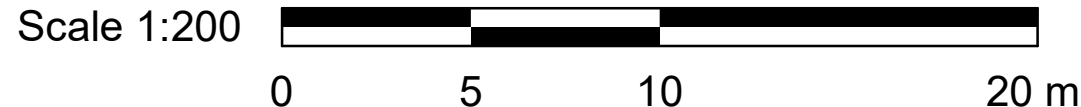
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CONSTRUCTION STAGING LEGEND

- STAGE 1
- STAGE 2
- STAGE 3
- STAGE 4
- STAGE 5
- EMERGENCY EXIT
- TRAVEL PATH

STAGING GENERAL NOTES

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Project Management Office  
Metro Hall Toronto, ON  
M5V 3C6

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No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
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F	ISSUED FOR REVISED 100%	2024-04-30
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H	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
I	ISSUED FOR TENDER	2025-09-08

CONSULTANTS

SEAL

PRIME CONSULTANT

ARCADIS

100 - 175 Galaxy Blvd,  
Toronto, ON M9W 0C9, Canada  
tel 416 679 1930  
www.arcadis.com

PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
STATION  
160 RIVALDA RD

PROJECT NO:

9119-19-0162 / IBI 122260

DRAWN BY:

A. KVASNIUK

CHECKED BY:

L. BANDIERA

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

E. FENUTA

SHEET TITLE

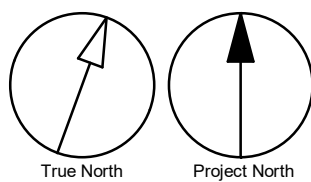
GROUND FLOOR AND  
MEZZANINE STAGING  
PLAN

SHEET NUMBER

G21-086-A2011

ISSUE

I



Autodesk Docs // 122260 - Cot TAU Upgrades R2024122260-TAU-5-86-160RVLDA-A-R201.rvt 1/11





PHOTO 01: REMOVE EXISTING DOOR AND GLAZING



PHOTO 02: REMOVE EXISTING DOOR AND GLAZING



PHOTO 03: DEMOLISH EXISTING STAIR AND HANDRAILS



PHOTO 04: REMOVE EXISTING METAL STUDS, FLOOR TILE AND GLAZING UNIT

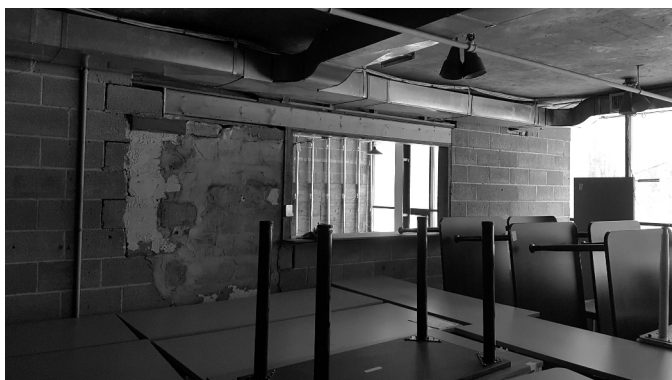


PHOTO 05: PARTIALLY DEMOLISH EXISTING WALL AND WALL OPENING



PHOTO 05: REMOVE EXISTING DOORS, GLAZING AND FRAMES

REMOVE EXISTING STOREFRONT SYSTEM.  
REFER TO 2/A3011

REMOVE WALL TO PROVIDE OPENING FOR NEW  
DUCT. REFER TO MECHANICAL DWGS.

REMOVE EXISTING METAL STUDS

REMOVE EXISTING GLAZING UNIT TO  
PROVIDE OPENING FOR NEW DUCT. REFER  
TO 3/A3011 AND MECHANICAL DWGS.

CUT AND REMOVE EXISTING FLOOR TO  
PROVIDE SPACE FOR NEW ELEVATOR  
ENCLOSURE. REFER TO STRUCTURAL DWGS.  
FOR DETAILS, FLOOR AND ROOF CUTTING  
LOCATIONS

HOARD IN ELEVATOR FOR  
THE ENTIRE BUILD

CUT EXISTING FLOOR TO PROVIDE SPACE FOR  
NEW ELEVATOR AND SUMP ROOM. REFER TO  
STRUCTURAL DWGS. FOR DETAILS, FLOOR  
AND ROOF CUTTING LOCATIONS

EXCAVATE AREA TO PROVIDE SPACE FOR NEW  
SUMP PIT ROOM. REFER TO STRUCTURAL DWGS.

REMOVE EXISTING PLUMBING FIXTURES AND U/G  
PIPES. REFER TO MECHANICAL DRAWINGS. PATCH  
OPENING AND MAKE GOOD FINISH. CONTRACTOR  
TO VERIFY EXACT LAYOUT ON SITE.

APPROXIMATE LOCATION OF EXISTING GRILLE,  
DUCTWORK, FAN AND CONTROLS TO BE  
REMOVED. REFER TO MECHANICAL DRAWINGS.  
PATCH OPENING AND MAKE GOOD FINISH.  
CONTRACTOR TO VERIFY EXACT LAYOUT ON SITE.

APPROXIMATE LOCATION OF SLAB CUT FOR  
REMOVAL OF ABANDONED SAN PIPING.  
REFER TO MECHANICAL DRAWINGS

1 BASEMENT-DEMOLITION FLOOR PLAN  
A2101 Scale: 1 : 75

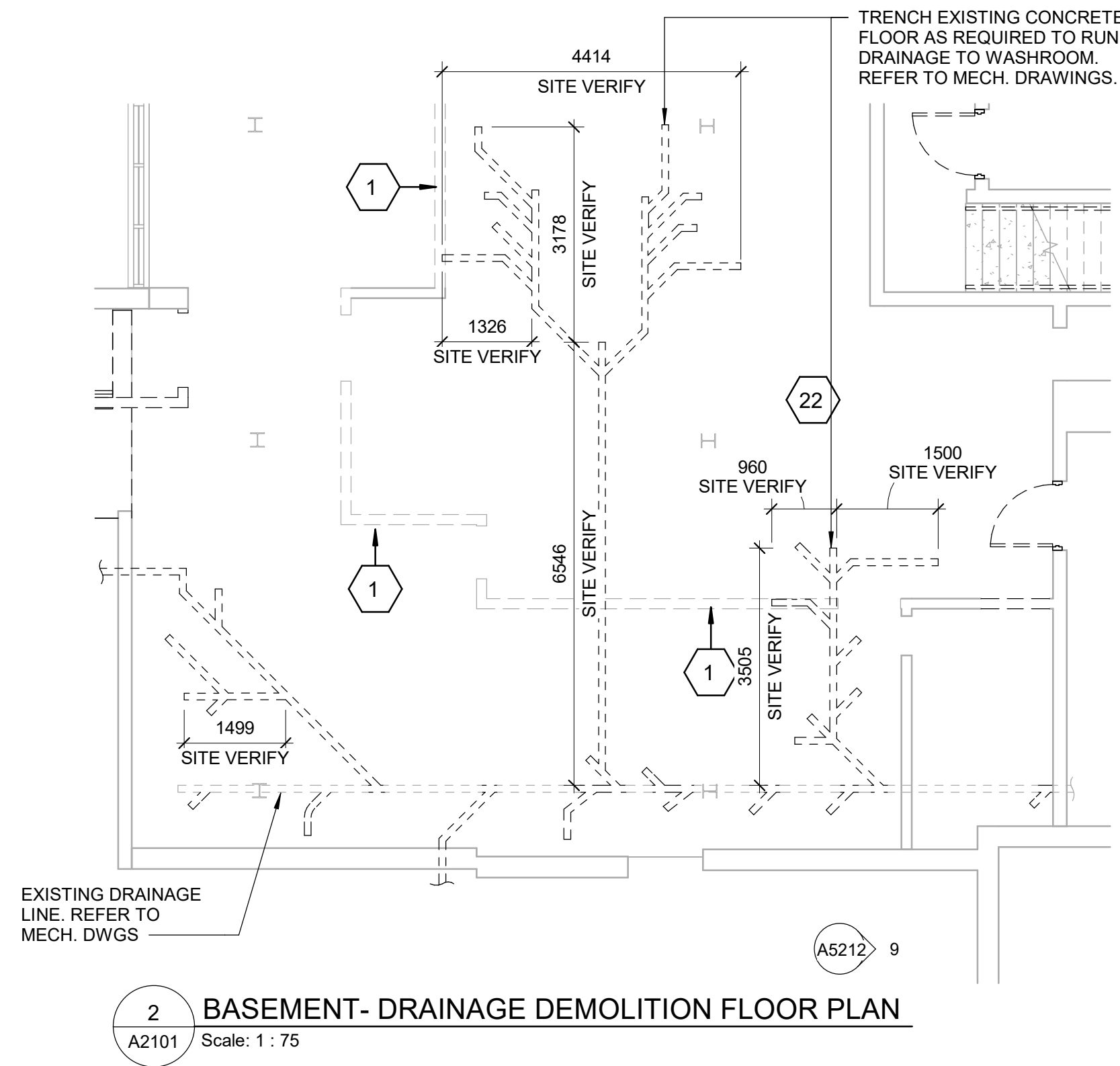
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### DEMOLITION KEY LEGEND

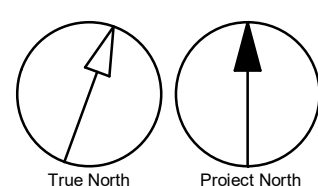
- EXISTING TO BE DEMOLISHED
- EXISTING INTERIOR PARTITION  
TO BE DEMOLISHED
- ===== EXISTING EXTERIOR WALL  
TO REMAIN
- ===== EXISTING PARTITION TO REMAIN
- EXISTING DOOR, FRAME,  
AND ASSOCIATED  
HARDWARE TO BE REMOVED
- EXISTING DOOR TO REMAIN
- DASHED AREA INDICATES  
AREA OF WORK

### DEMOLITION KEY NOTES

NO	DESCRIPTION
1	REMOVE EXISTING WALL AND/OR COLUMN ENCLOSURE INCLUDING BUT NOT LIMITED TO TILE, CORNER GUARDS, METAL PANELS, WALL MOUNTED FIXTURES AND FINISHES AS INDICATED. PROVIDE SMOOTH TRANSITION BETWEEN SURFACES AT LOCATION OF DEMOLISHED AREA.
2	REMOVE EXISTING CONC. BLOCK WALL, PATCH AND REPAIR AFFECTED SURFACES AT FLOOR, WALLS, COLUMNS AND CEILINGS AS REQUIRED.
3	REMOVE EXISTING FLOORING AND BASE. REMOVE EXISTING TILE FLOORING TO CLOSEST FULL TILE OR TO EXTENT SHOWN. REPAIR, LEVEL AND CLEAN SURFACE READY TO RECEIVE NEW FLOOR FINISHES. REFER TO FINISH SCHEDULE.
5	REMOVE EXISTING DOOR AND FRAME. CUT PARTITION TO ACCOMMODATE NEW DOOR AND FRAME. REPAIR ADJACENT AFFECTED WALL SURFACES. REFER TO DETAIL D1002 AND 1/D2300.
11	REMOVE EXISTING GUARDRAIL, HANDRAIL AND/OR HANDRAIL POST BASE. REPAIR AND MAKE GOOD ALL SURFACES.
22	SCAN PRIOR TO CUTTING OR CORE DRILLING FLOOR SLAB. DO NOT CUT REBAR, PATCH, REPAIR AND MAKE GOOD READY TO RECEIVE NEW FINISHES.
25	DEMOLISH EXISTING CONCRETE STAIR OR RAMP. REMOVE DEBRIS AND PREPARE FOR NEW STAIR OR RAMP. PROVIDE SMOOTH TRANSITION BETWEEN SURFACES AND PROTECT SURROUNDING AREAS DURING THE WORK.
31	REMOVE EXISTING DOOR, WINDOW AND FRAME TO ACCOMMODATE NEW.



2 BASEMENT- DRAINAGE DEMOLITION FLOOR PLAN  
A2101 Scale: 1 : 75



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KEYPLAN

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APPROVED BY:  
**E. FENUTA**

SHEET TITLE  
**BASEMENT DEMOLITION  
PLAN**

SHEET NUMBER  
**G21-086-A2101**

ISSUE  
**I**





PHOTO 01: DEMOLISH EXISTING STAIR AND HANDRAILS



PHOTO 02: DOOR TO BE DEMOLISHED



PHOTO 03: DOOR TO BE DEMOLISHED

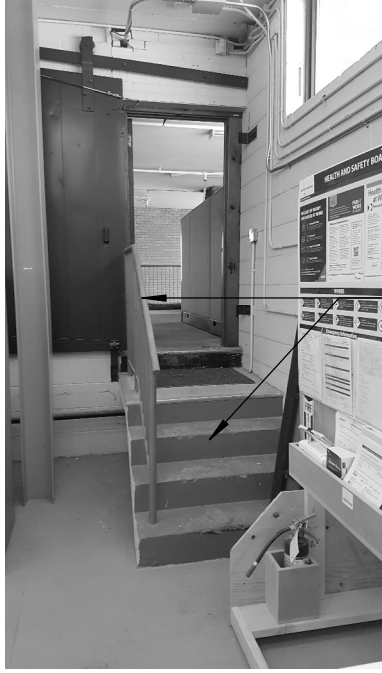


PHOTO 04: REMOVE EXISTING HANDRAILS FOR STAIR B



PHOTO 05: INTERIOR PARTITION TO BE DEMOLISHED



PHOTO 06: DEMOLITION AT MEZZANINE

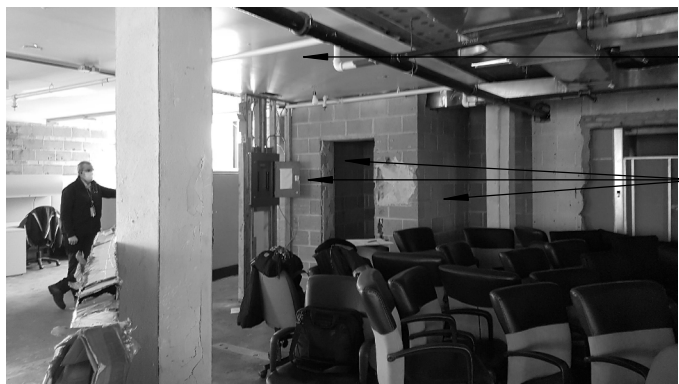


PHOTO 07: DEMOLITION AT MEZZANINE



PHOTO 08: EXIT DOOR AT STAIRS TO BE DEMOLISHED



PHOTO 09: EXTERIOR STAIR A AND B



PHOTO 10: REMOVE DOOR, FRAME AND PUSH BUTTON FOR DOOR N-100A



PHOTO 11: STAIR A AT MEZZANINE

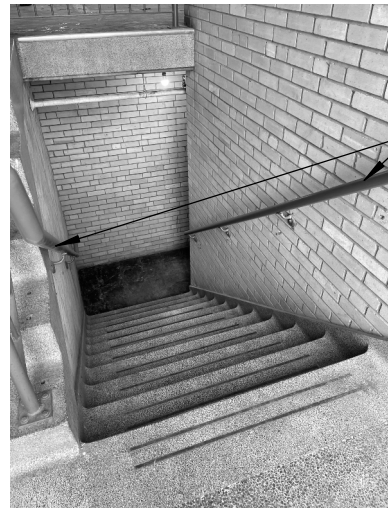


PHOTO 12: INTERIOR STAIR A



PHOTO 13: REMOVE BASE FOR INTERIOR STAIR A

REMOVE EXISTING CEILING TILES

REMOVE EXISTING DOOR AND FRAME. PARTIALLY REMOVE EXISTING WALL. REFER TO 2/A2111 FOR DETAILS

REMOVE AND DISPOSE OF EXISTING HANDRAILS

REMOVE EXISTING CEILING TILES

DEMOLISH AND DISPOSE OF EXISTING WALL

REMOVE A PORTION OF THE EXISTING TERRAZZO BASE ON THE MEZZANINE LEVEL. LEVEL AND CLEAN THE SURFACE TO PREPARE FOR THE NEW FLOOR FINISH.

PARTIALLY DEMOLISH AND DISPOSE OF EXISTING WALL. REMOVE AND DISPOSE OF EXISTING DOOR

REMOVE EXISTING HANDRAILS AND PATCH HOLES WITH COLOUR MATCHING MORTAR

REMOVE EXISTING DOOR, FRAME AND PUSH BUTTON

REMOVE AND DISPOSE OF EXISTING HANDRAILS

PATCH TERRAZZO WITH COLOUR MATCHING TERRAZZO - PROVIDE SAMPLES.

REMOVE A PORTION OF THE EXISTING TERRAZZO BASE ON THE MEZZANINE LEVEL. REPAIR AND CLEAN THE SURFACE TO PREPARE IT FOR THE NEW FLOOR FINISH.

REMOVE EXISTING CEILING TILES

PATCH AND MAKE-GOOD ROOF AREAS AFFECTED BY DUCT AND FAN REMOVAL. REFER TO MECHANICAL DRAWINGS.

CUT EXISTING FLOOR TO PROVIDE SPACE FOR NEW ELEVATOR AND SUMP ROOM. REFER TO STRUCTURAL DWGS. FOR DETAILS, FLOOR AND ROOF CUTTING LOCATIONS

REMOVE EXISTING GLAZING AND MULLIONS

HOARD IN ELEVATOR FOR THE ENTIRE BUILD

DISCONNECT AND RELOCATE EXISTING WASHER AND DRYER WHILE WORK IS ONGOING.

EXISTING MOP SINK AND EYE WASH STATION

REMOVE A PORTION OF THE EXISTING TERRAZZO BASE ON THE MEZZANINE LEVEL. LEVEL AND CLEAN THE SURFACE TO PREPARE FOR THE NEW FLOOR FINISH.

TRENCH EXISTING CONCRETE FLOOR AS REQUIRED TO RUN DRAINAGE TO WASHROOM. REFER TO MECHANICAL DRAWINGS.

REMOVE OFFICE WALL FURNITURE SYSTEM

REMOVE WALL TO PROVIDE OPENING FOR NEW DUCT. REFER TO MECHANICAL DWGS.

## DEMOLITION KEY LEGEND

--- EXISTING TO BE DEMOLISHED

--- EXISTING INTERIOR PARTITION TO BE DEMOLISHED

--- EXISTING EXTERIOR WALL TO REMAIN

--- EXISTING PARTITION TO REMAIN

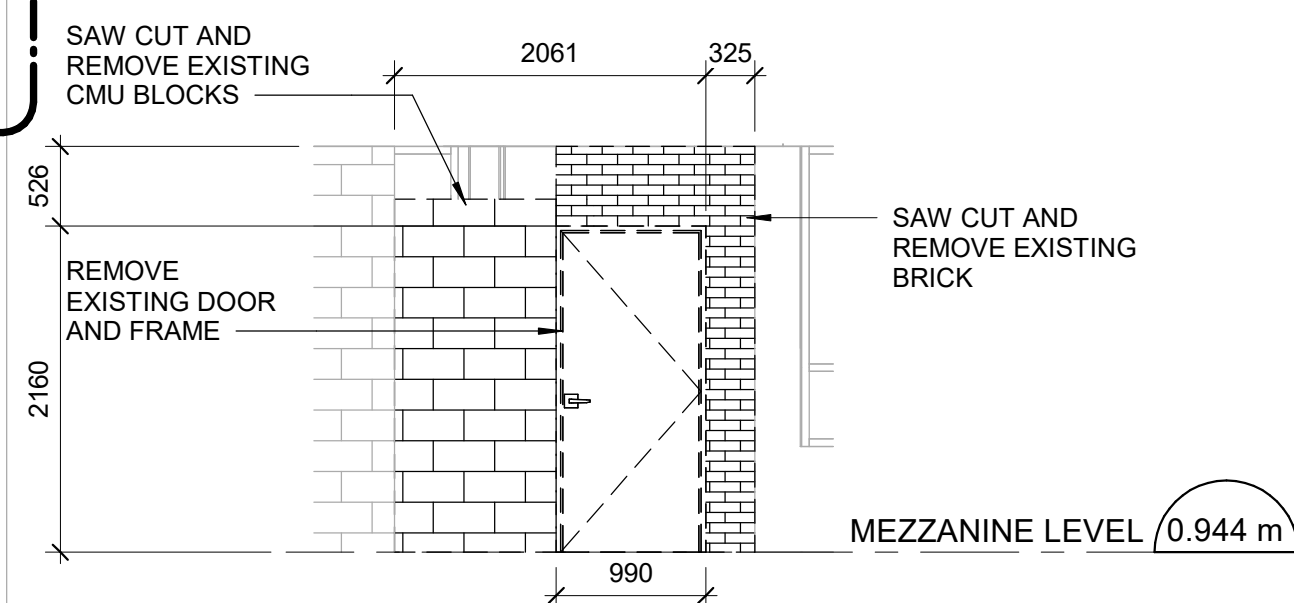
--- EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE TO BE REMOVED

--- EXISTING DOOR TO REMAIN

--- DASHED AREA INDICATES AREA OF WORK

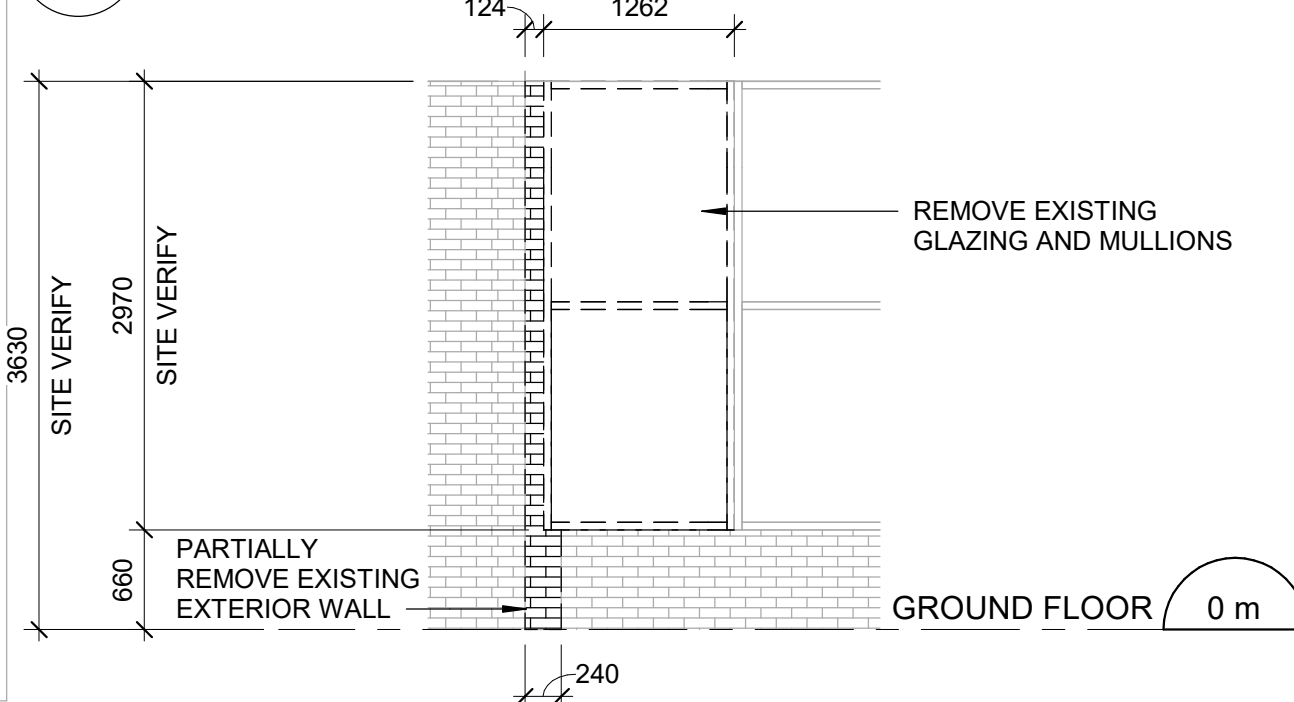
## DEMOLITION KEY NOTES

NO	DESCRIPTION
4	REMOVE EXISTING CEILING TO THE EXTENT OF THE PROPOSED ROOM SIZE.
5	REMOVE EXISTING DOOR AND FRAME. CUT PARTITION TO ACCOMMODATE NEW DOOR AND FRAME. REPAIR ADJACENT AFFECTED WALL SURFACES. REFER TO DETAIL D1002 AND 1/D2300.
11	REMOVE EXISTING GUARDRAIL, HANDRAIL AND/OR HANDRAIL POST BASE. REPAIR AND MAKE GOOD ALL SURFACES.
22	SCAN PRIOR TO CUTTING OR CORE DRILLING FLOOR SLAB. DO NOT CUT REBAR, PATCH, REPAIR AND MAKE GOOD READY TO RECEIVE NEW FINISHES.
25	DEMOLISH EXISTING CONCRETE STAIR OR RAMP. REMOVE DEBRIS AND PREPARE FOR NEW STAIR OR RAMP. PROVIDE SMOOTH TRANSITION BETWEEN SURFACES AND PROTECT SURROUNDING AREAS DURING THE WORK.



2 EXISTING INTERIOR DOOR ELEVATION - DEMOLITION

A2111 Scale: 1 : 50



3 EXISTING EXTERIOR WALL AND GLAZING - DEMOLITION

A2111 Scale: 1 : 50

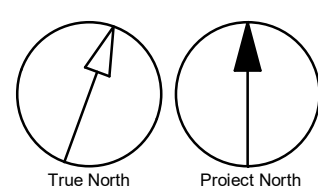


PHOTO 01: DEMOLISH EXISTING STAIR AND HANDRAILS



PHOTO 02: DOOR TO BE DEMOLISHED



PHOTO 03: DOOR TO BE DEMOLISHED

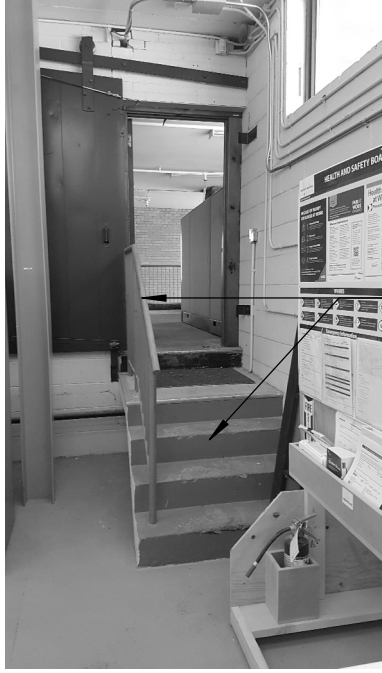


PHOTO 04: REMOVE EXISTING HANDRAILS FOR STAIR B



PHOTO 05: INTERIOR PARTITION TO BE DEMOLISHED



PHOTO 06: DEMOLITION AT MEZZANINE

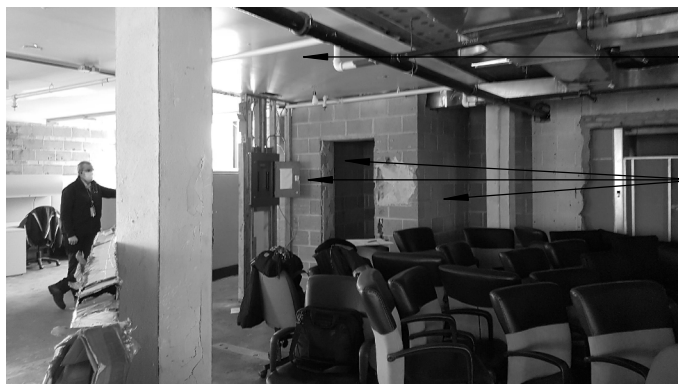


PHOTO 07: DEMOLITION AT MEZZANINE



PHOTO 08: EXIT DOOR AT STAIRS TO BE DEMOLISHED



PHOTO 09: EXTERIOR STAIR A AND B



PHOTO 10: REMOVE DOOR, FRAME AND PUSH BUTTON FOR DOOR N-100A



PHOTO 11: STAIR A AT MEZZANINE

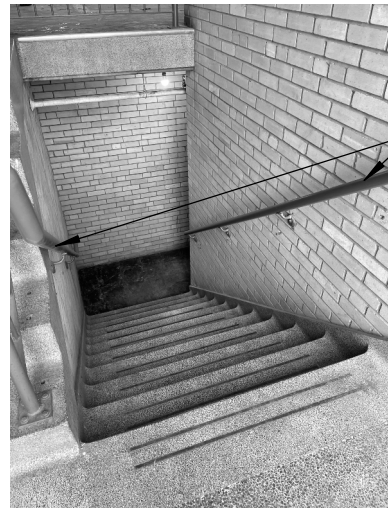


PHOTO 12: INTERIOR STAIR A



PHOTO 13: REMOVE BASE FOR INTERIOR STAIR A

REMOVE EXISTING CEILING TILES

REMOVE EXISTING DOOR AND FRAME. PARTIALLY REMOVE EXISTING WALL. REFER TO 2/A2111 FOR DETAILS

REMOVE AND DISPOSE OF EXISTING HANDRAILS

REMOVE EXISTING CEILING TILES

DEMOLISH AND DISPOSE OF EXISTING WALL

REMOVE A PORTION OF THE EXISTING TERRAZZO BASE ON THE MEZZANINE LEVEL. LEVEL AND CLEAN THE SURFACE TO PREPARE FOR THE NEW FLOOR FINISH.

PARTIALLY DEMOLISH AND DISPOSE OF EXISTING WALL. REMOVE AND DISPOSE OF EXISTING DOOR

REMOVE EXISTING HANDRAILS AND PATCH HOLES WITH COLOUR MATCHING MORTAR

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REMOVE AND DISPOSE OF EXISTING HANDRAILS

PATCH TERRAZZO WITH COLOUR MATCHING TERRAZZO - PROVIDE SAMPLES.

REMOVE A PORTION OF THE EXISTING TERRAZZO BASE ON THE MEZZANINE LEVEL. REPAIR AND CLEAN THE SURFACE TO PREPARE IT FOR THE NEW FLOOR FINISH.

REMOVE EXISTING CEILING TILES

PATCH AND MAKE-GOOD ROOF AREAS AFFECTED BY DUCT AND FAN REMOVAL. REFER TO MECHANICAL DRAWINGS.

CUT EXISTING FLOOR TO PROVIDE SPACE FOR NEW ELEVATOR AND SUMP ROOM. REFER TO STRUCTURAL DWGS. FOR DETAILS, FLOOR AND ROOF CUTTING LOCATIONS

REMOVE EXISTING GLAZING AND MULLIONS

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EXISTING MOP SINK AND EYE WASH STATION

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REMOVE OFFICE WALL FURNITURE SYSTEM

REMOVE WALL TO PROVIDE OPENING FOR NEW DUCT. REFER TO MECHANICAL DWGS.

## DEMOLITION KEY LEGEND

--- EXISTING TO BE DEMOLISHED

--- EXISTING INTERIOR PARTITION TO BE DEMOLISHED

--- EXISTING EXTERIOR WALL TO REMAIN

--- EXISTING PARTITION TO REMAIN

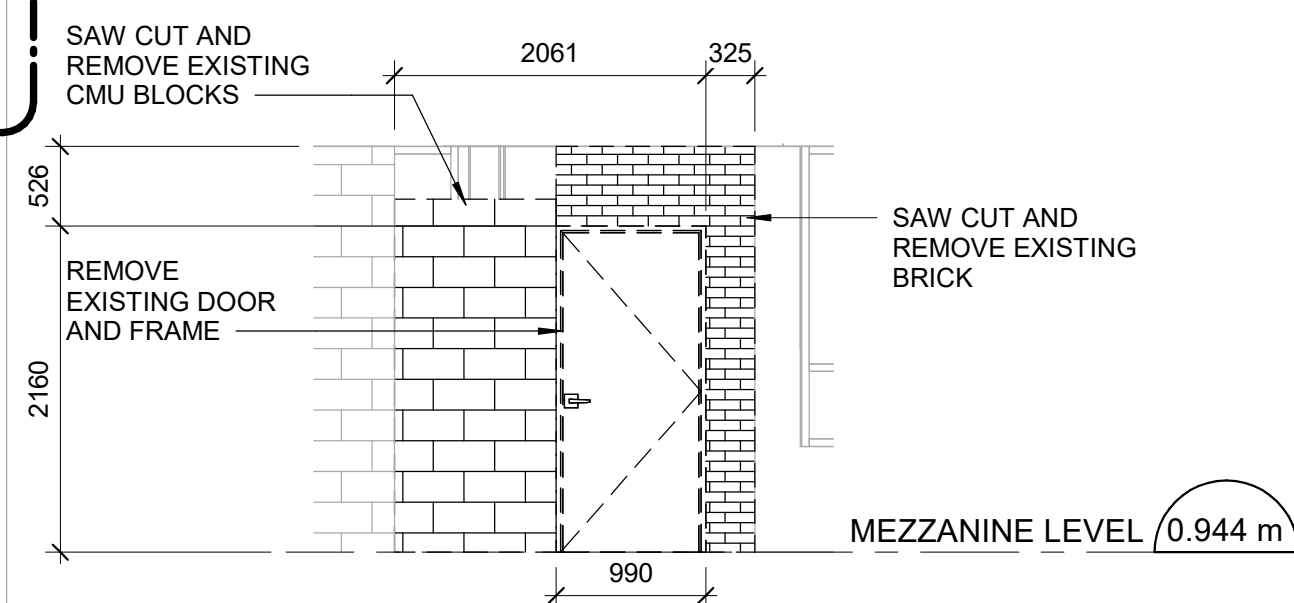
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--- EXISTING DOOR TO REMAIN

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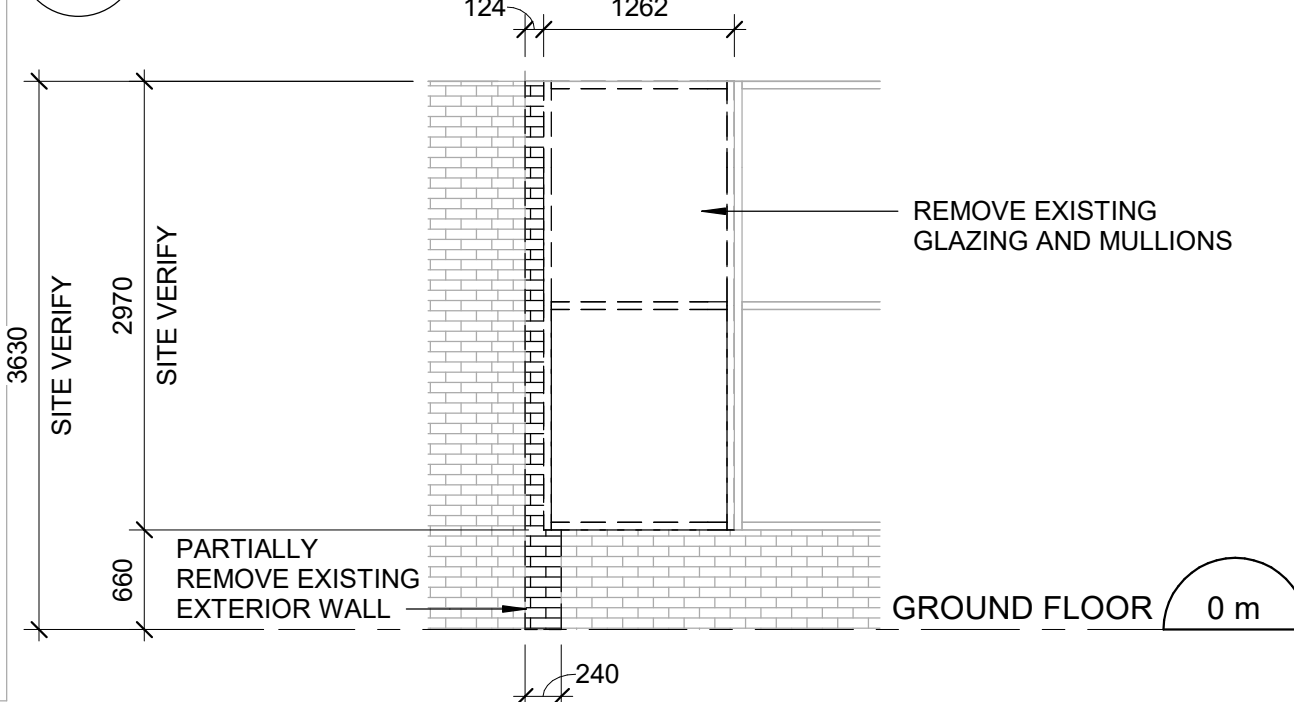
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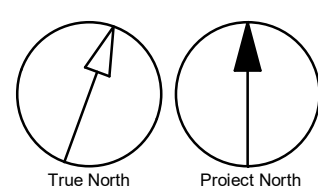
2 EXISTING INTERIOR DOOR ELEVATION - DEMOLITION

A2111 Scale: 1 : 50



3 EXISTING EXTERIOR WALL AND GLAZING - DEMOLITION

A2111 Scale: 1 : 50



Scale 1:125

0 2.5 5 12.5 m

2025-09-08 1:00:16 PM

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GROUND FLOOR AND

MEZZANINE DEMOLITION

PLAN

SHEET NUMBER

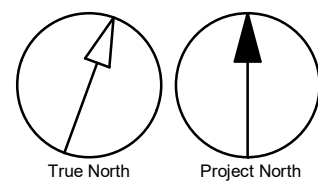
G21-086-A2111

ISSUE

J

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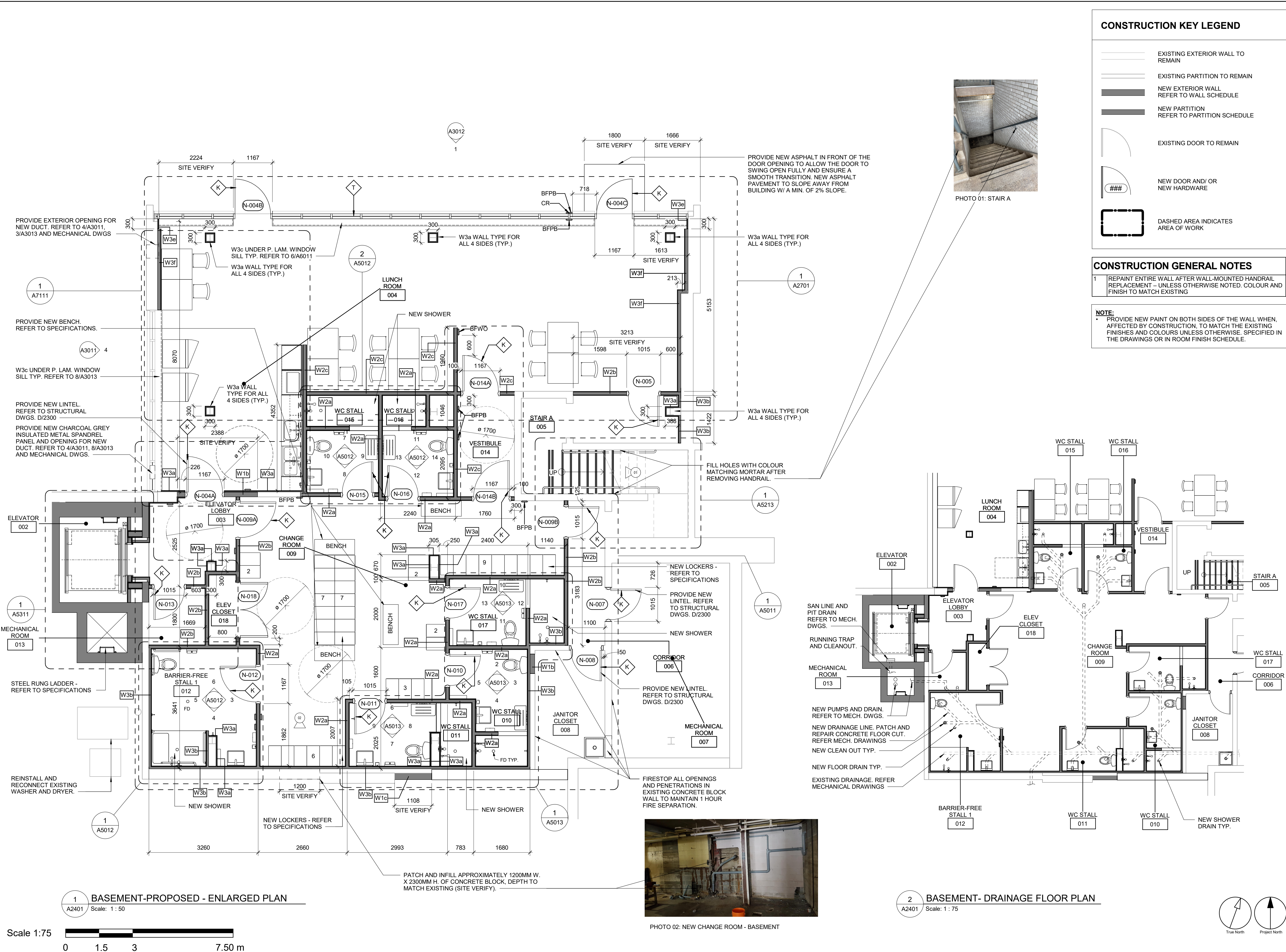




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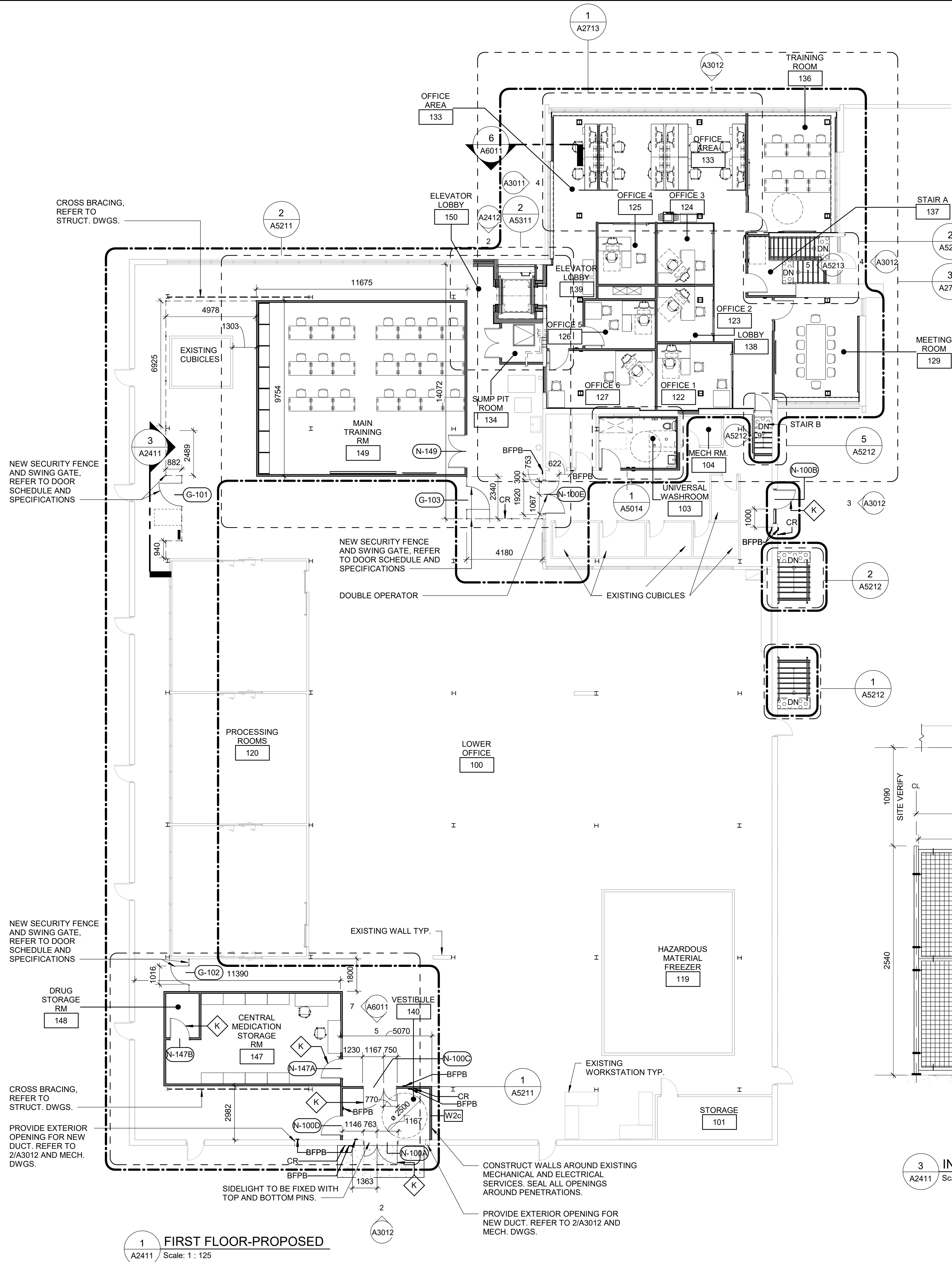
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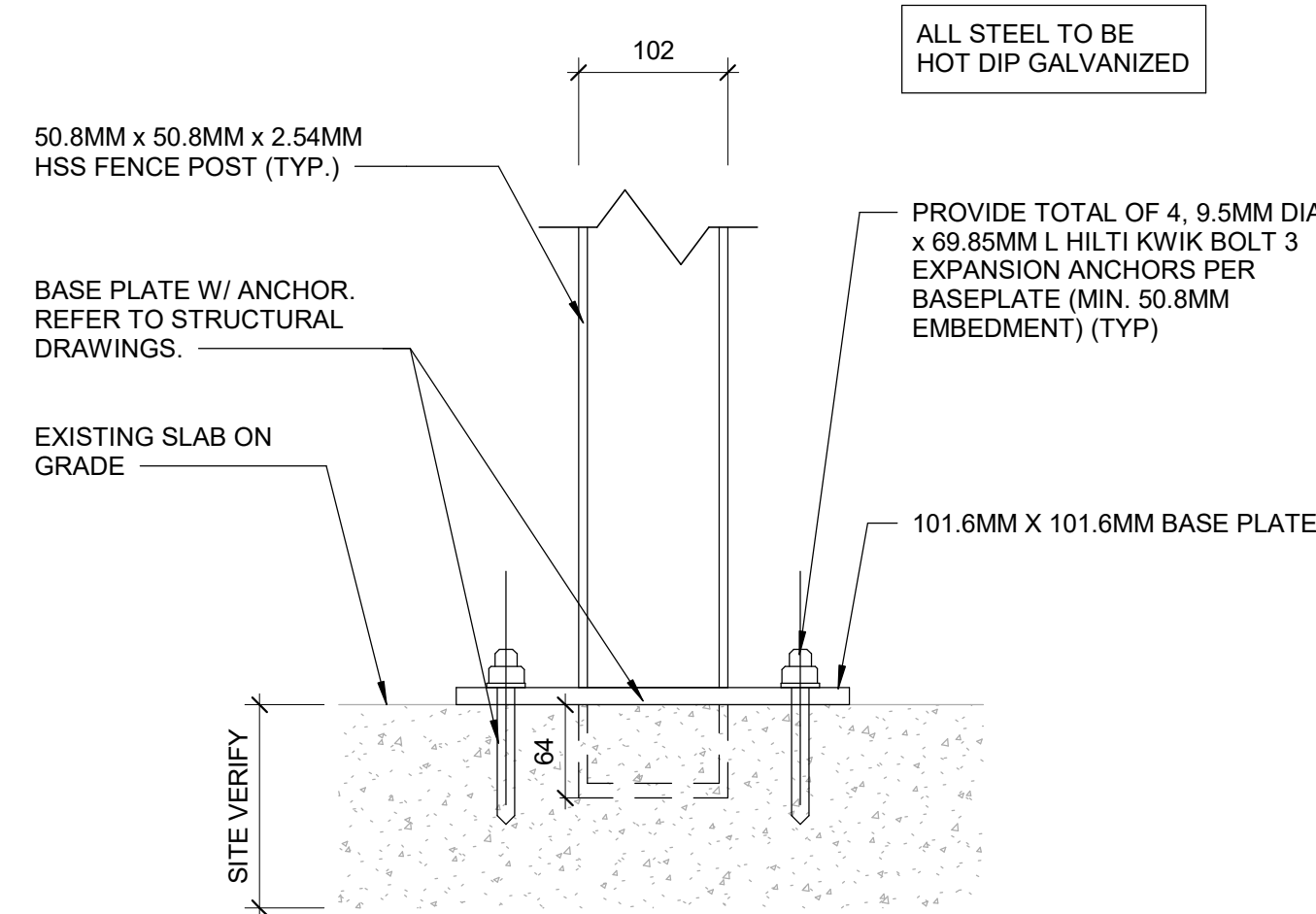


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BASEMENT PROPOSED PLAN		
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G21-086-A2401		I





1 FIRST FLOOR-PROPOSED  
A2411 Scale: 1 : 125



2 FENCE POST BASEPLATE ANCHORING DETAIL (TYP.)  
A2411 Scale: 1 : 5

#### CONSTRUCTION KEY LEGEND

	EXISTING EXTERIOR WALL TO REMAIN
	EXISTING PARTITION TO REMAIN
	NEW EXTERIOR WALL REFER TO WALL SCHEDULE
	NEW PARTITION REFER TO PARTITION SCHEDULE
	EXISTING DOOR TO REMAIN
	NEW DOOR AND/OR NEW HARDWARE
	DASHED AREA INDICATES AREA OF WORK

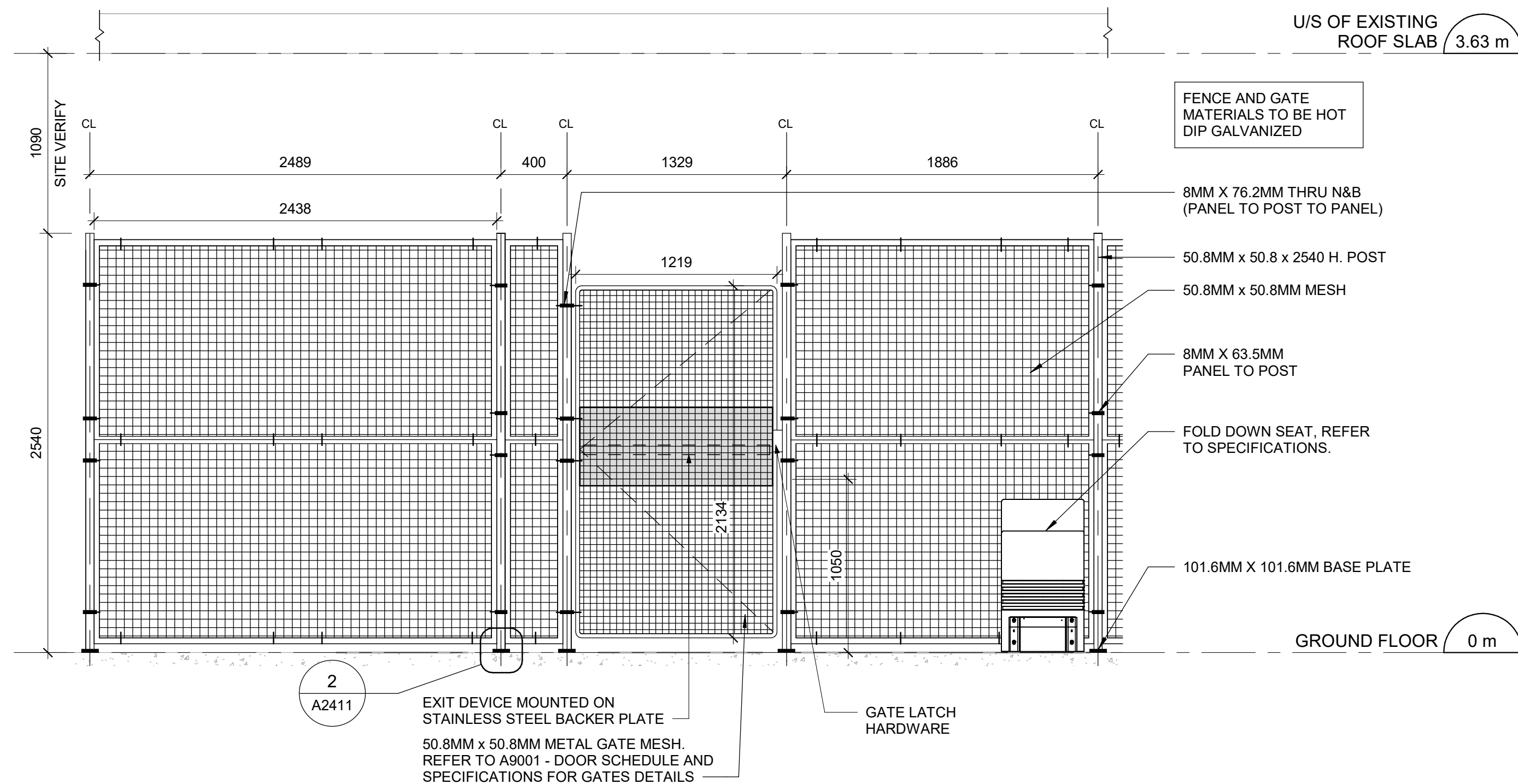
#### CONSTRUCTION GENERAL NOTES

NO	DESCRIPTION
1	REPAINT ENTIRE WALL AFTER WALL-MOUNTED HANDRAIL REPLACEMENT - UNLESS OTHERWISE NOTED. COLOUR AND FINISH TO MATCH EXISTING

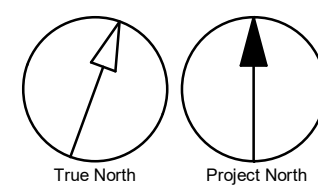
#### CONSTRUCTION KEY NOTES

NO	DESCRIPTION
K	INSTALL NEW DOOR AND FRAME. REFER TO DOOR SCHEDULE A9001, G0004 AND DOOR HARDWARE SCHEDULE IN THE SPECIFICATIONS.

**NOTE:**  
PROVIDE NEW PAINT ON BOTH SIDES OF THE WALL WHEN AFFECTED BY CONSTRUCTION, TO MATCH THE EXISTING FINISHES AND COLOURS UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS OR IN ROOM FINISH SCHEDULE.



3 INTERIOR SECURITY FENCE AND GATE TYP. - ELEVATION  
A2411 Scale: 1 : 25



1 x 1

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ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	RE-ISSUED FOR PERMIT 2	2022-12-16
E	100% SUBMISSION	2023-02-17
F	ISSUED FOR REVISED PERMIT/100%	2023-08-31
G	PERMIT REVISION/100%	2024-03-25
H	ISSUED FOR REVISED 100%	2024-04-30
I	ISSUED FOR REVISED PERMIT REV. 2	2024-06-13
J	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
K	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**A. KVASNIUK / M. V.**

CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**E. FENUTA**

SHEET TITLE  
**GROUND FLOOR AND  
MEZZANINE PROPOSED  
PLAN**

SHEET NUMBER

**G21-086-A2411**

ISSUE

**K**







### FLOOR FINISHES LEGEND

	PORCELAIN SHOWER TILE
	PORCELAIN TILE
	CARPET TILE
	DASHED AREA INDICATES AREA OF WORK

### FLOOR FINISH GENERAL NOTES

- FLOOR FINISH PLANS TO BE READ IN CONJUNCTION WITH ROOM FINISH SCHEDULE AND SPECIFICATIONS.
- CARPET TILE TO BE INSTALLED PRIOR TO INSTALLATION OF SYSTEMS FURNITURE.
- PROTECT ALL NEW AND EXISTING FLOOR FINISHES WITH PLYWOOD SHEETS ANYWHERE OTHER CONSTRUCTION WORK IS STILL ONGOING.
- CHANGE OF FLOORING MATERIAL TO OCCUR BELOW THE DOOR LEAF UNLESS OTHERWISE INDICATED.
- WHERE A CHANGE OF MATERIAL THICKNESS OCCURS, PROVIDE THRESHOLD AS PER DETAILS AND SPECIFICATIONS.
- PROVIDE REPLACEMENT FLOOR FINISH TO MATCH EXISTING FOR ANY FLOORING DAMAGED DUE TO WORK OF THIS PROJECT.

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PROJECT TITLE

**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:

9119-19-0162 / IBI 122260

DRAWN BY:

**A. KVASNIUK / M. V.**

CHECKED BY:

**L. BANDIERA**

PROJECT MGR:

**F. BOLOURIAN**

APPROVED BY:

**E. FENUTA**

SHEET TITLE

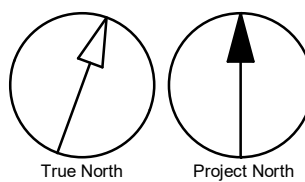
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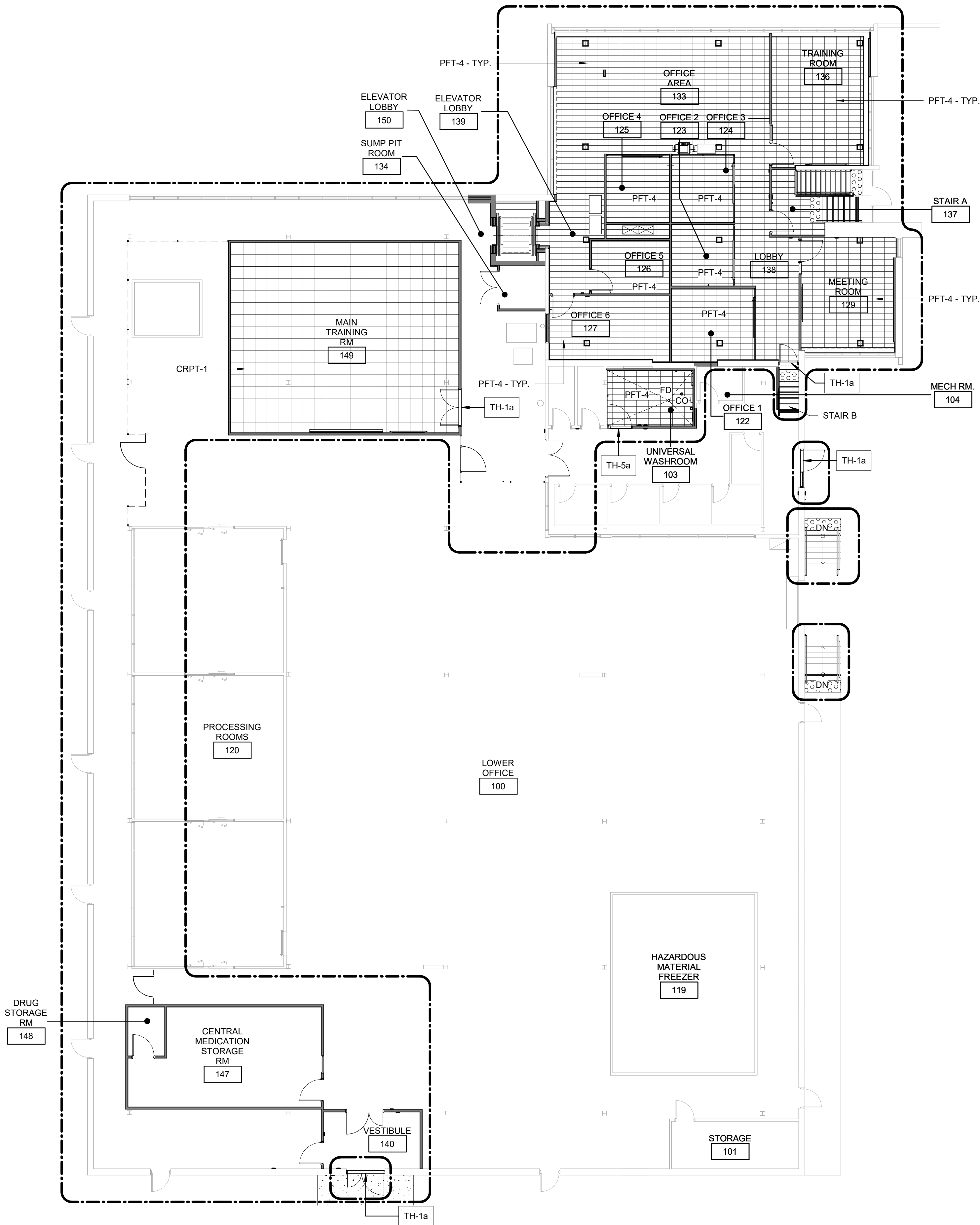
SHEET NUMBER

**G21-086-A2601**

ISSUE

**J**





1 UPPER LEVEL - FLOOR FINISH PLAN  
A2611 Scale: 1 : 125

### FLOOR FINISHES LEGEND

	PORCELAIN SHOWER TILE
	PORCELAIN TILE
	CARPET TILE
	DASHED AREA INDICATES AREA OF WORK

### FLOOR FINISH GENERAL NOTES

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- CARPET TILE TO BE INSTALLED PRIOR TO INSTALLATION OF SYSTEMS FURNITURE.
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- WHERE A CHANGE OF MATERIAL THICKNESS OCCURS, PROVIDE THRESHOLD AS PER DETAILS AND SPECIFICATIONS.
- PROVIDE REPLACEMENT FLOOR FINISH TO MATCH EXISTING FOR ANY FLOORING DAMAGED DUE TO WORK OF THIS PROJECT.

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E	ISSUED FOR REVISED PERMIT/100%	2023-08-31
F	PERMIT REVISION/100%	2024-03-25
G	ISSUED FOR REVISED 100%	2024-04-30
H	ISSUED FOR REVISED PERMIT REV. 2	2024-06-13
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**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY: <b>A. KVASNIUK / M. V.</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

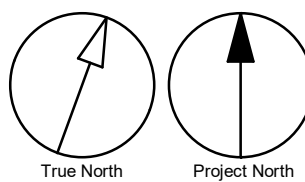
SHEET TITLE  
**GROUND FLOOR AND  
MEZZANINE FLOOR  
FINISH PLAN**

SHEET NUMBER

**G21-086-A2611**

ISSUE

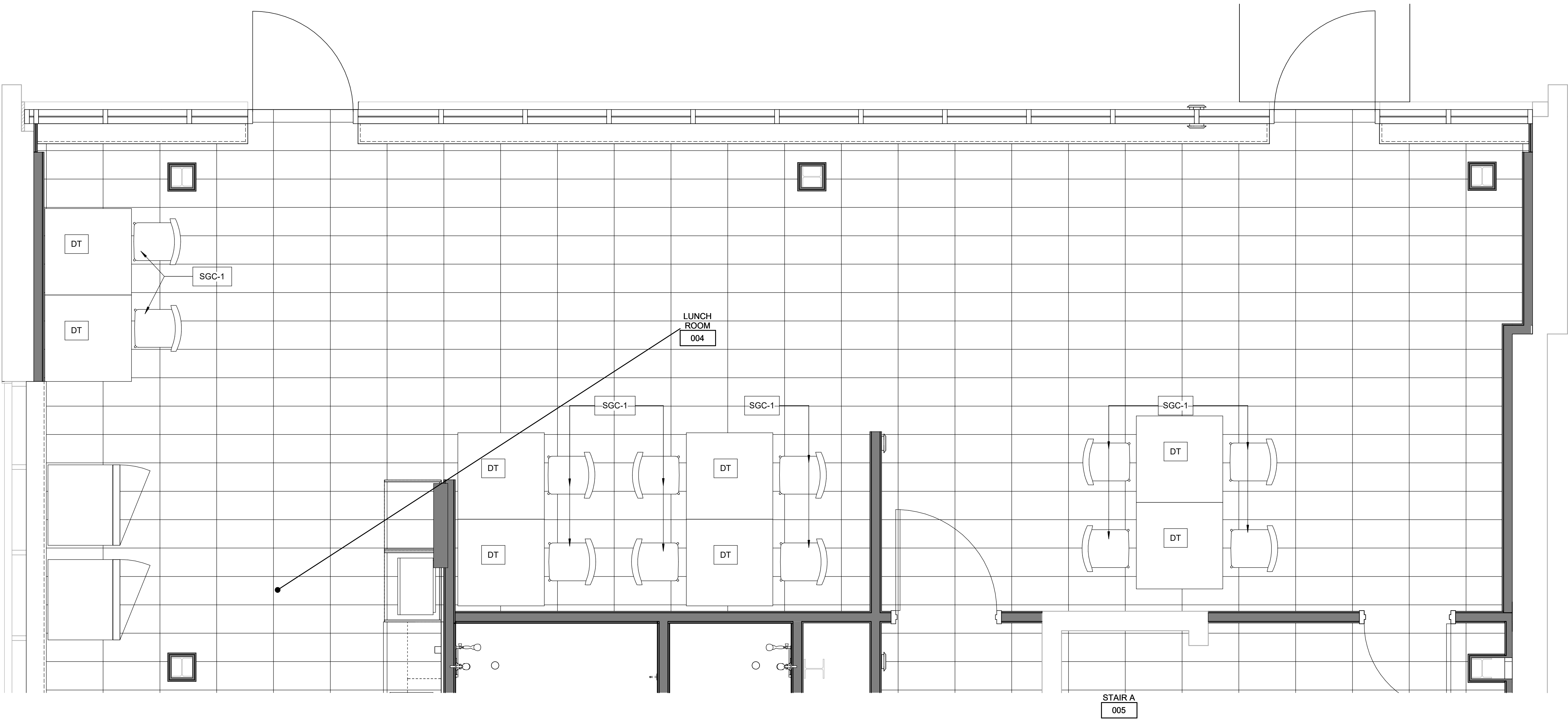
**J**





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Scale 1:25



BASEMENT LUNCH ROOM FF+E SCHEDULE				
TAG	ROOM NO.	DESCRIPTION	QTY.	REMARKS
DT	004	SQUARE DINING TABLE, 1.28'H MONO-POD BASE, 36"	12	PLASTIC LAMINATE DESK TOP - SILVER WHITE WITH SILVER MONOPOD TABLE BASE
SGC-1	004	STACKING GUEST CHAIR, FOUR-LEG W/ GLIDES SOFT, NO ARMS, NOT UPHOLSTERED	8	BLACK MOLDED PLASTIC CHAIR WITH CHROME LEGS

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PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS  
NEW PARAMEDICS  
STATION  
160 RIVALDA RD

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
A. KVASNIUK

CHECKED BY:  
L. BANDIERA

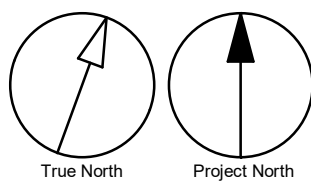
PROJECT MGR:  
F. BOLOURIAN

APPROVED BY:  
E. FENUTA

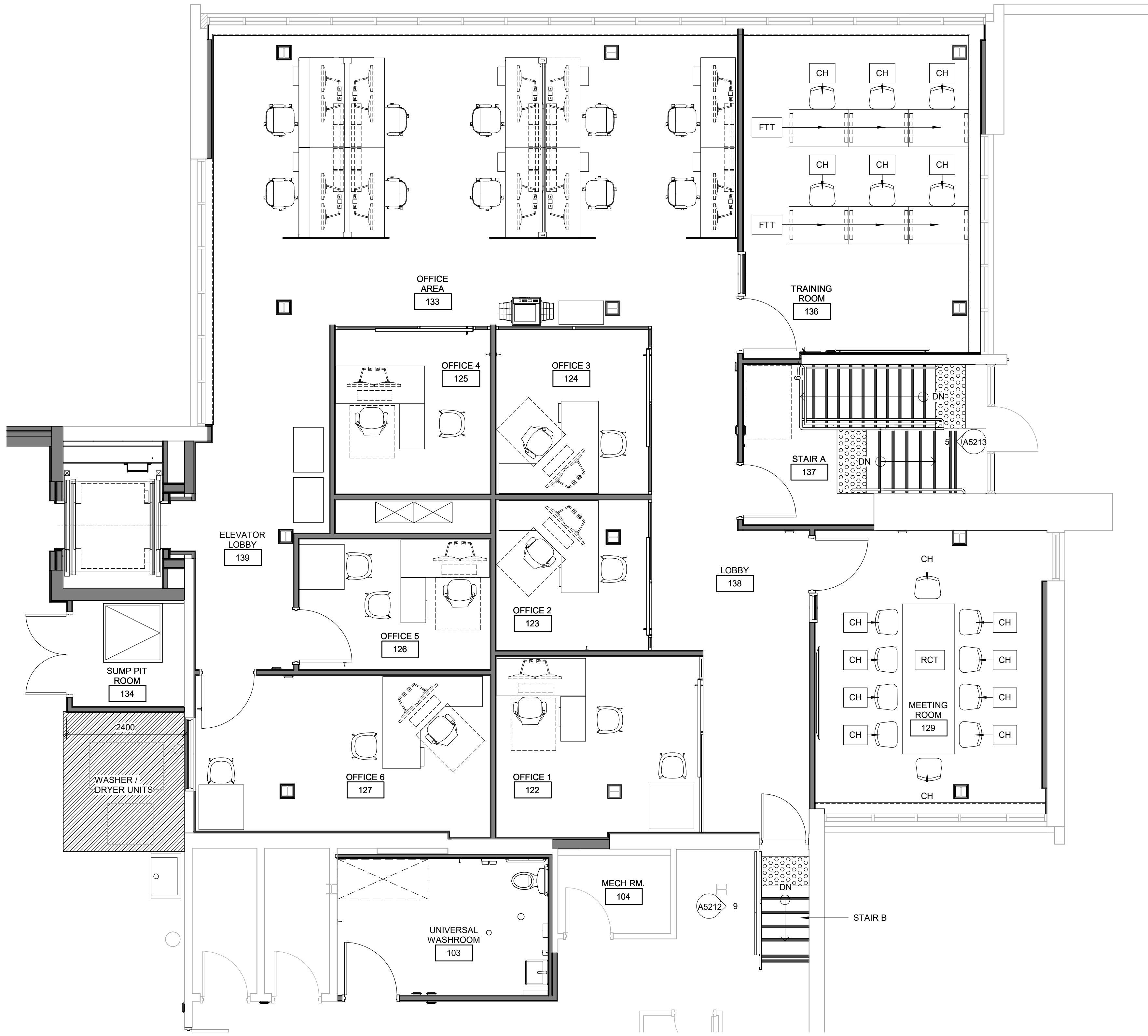
SHEET TITLE  
BASEMENT FURNITURE  
PLAN - LUNCH ROOM

SHEET NUMBER  
G21-086-A2701

ISSUE  
D



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UPPER LEVEL FF+E SCHEDULE				
TAG	ROOM NO.	DESCRIPTION	QTY.	REMARKS
CH	129, 136	TASK CHAIR, UPHOLSTERED SEAT	16	BLACK MESH BACK, BLACK SEAT, BLACK FRAME
RCT	129	RECTANGULAR CONFERENCE TABLE - PANEL BASES, 42"D X 120"W, STRAIGHT, LINEAR POWER MODULE, STANDARD 18" (1-3/16") WITH LINEAR POWER MODULE, STANDARD 18" - 4 POWER/ 4 USB/ 2 MEDIA, PLUG-IN, 72"L	1	PLASTIC LAMINATE DESK TOP - COASTAL ELM
FTT	136	RECTANGULAR FLIP-TOP TABLE, T-LEG, SLENDER, 30"D X 48"W WITH POWER MODULE CENTER COMPLETE WITH CABLE TRAY, 12" W, QUICK RELEASE LINKING SYSTEM, UNDERWORKSURFACE PLUG-IN POWER BAR, 72" LONG	6	PLASTIC LAMINATE DESK TOP - STORM WHITE WITH SILVER DESK LEGS

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D	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
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PROJECT ADDRESS  
NEW PARAMEDICS  
STATION  
160 RIVALDA RD

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
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CHECKED BY:  
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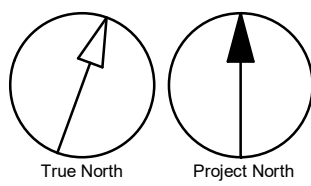
PROJECT MGR:  
F. BOLOURIAN

APPROVED BY:  
E. FENUTA

SHEET TITLE  
MEZZANINE LEVEL  
FURNITURE PLAN

SHEET NUMBER  
G21-086-A2711

ISSUE  
D



Scale 1:50

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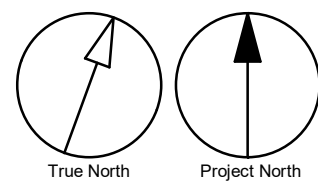
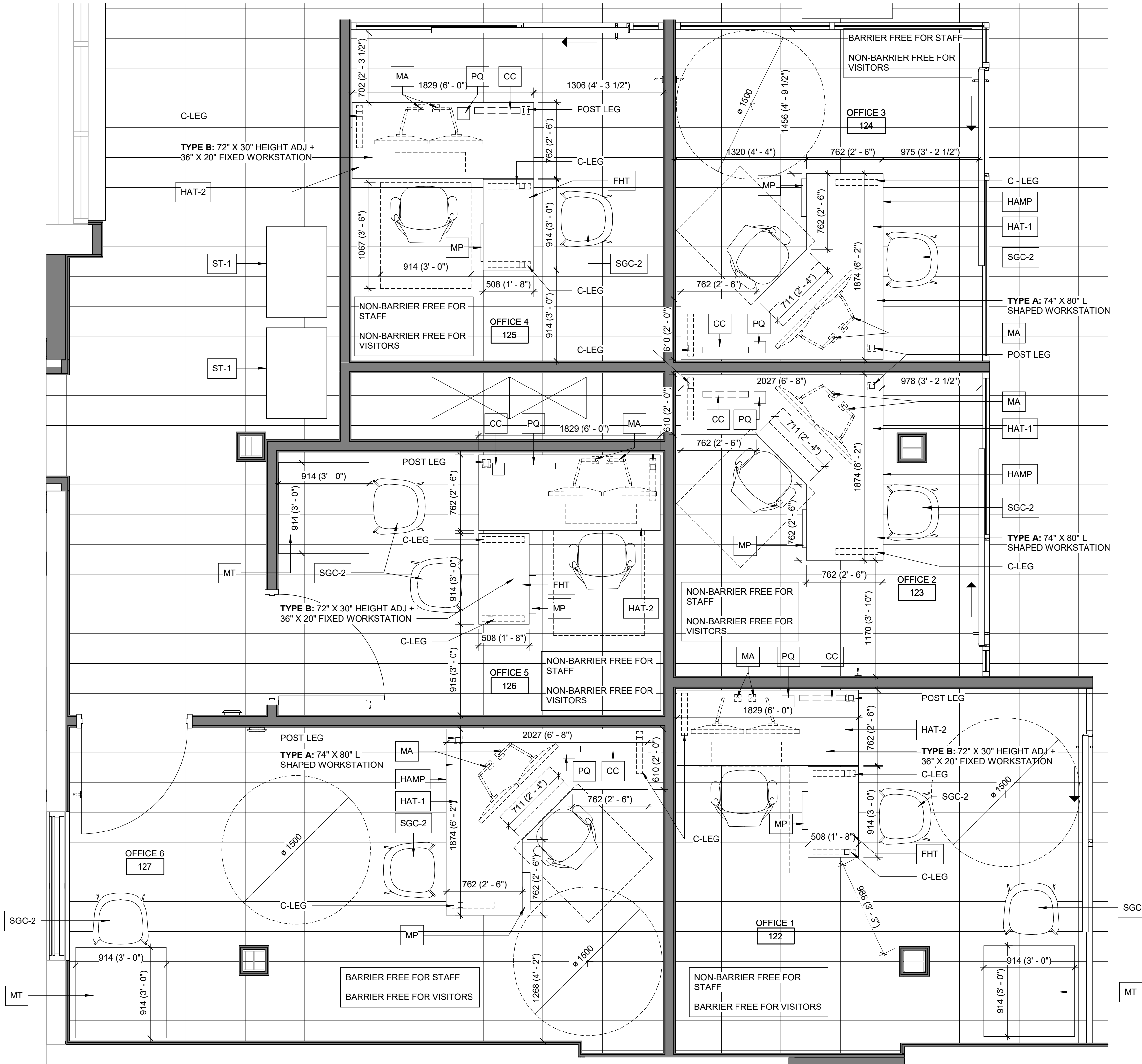
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Scale 1:25



PRIVATE OFFICES FF+E SCHEDULE				
TAG	ROOM NO.	DESCRIPTION	QTY.	REMARKS
SGC-2	122, 123, 124, 125, 126, 127	STACKING GUEST CHAIR, FOUR-LEG W/ GLIDES HARD, INTEGRATED ARMS W/CAPS, NOT UPHOLSTERED	9	BLACK MOLDED PLASTIC CHAIR WITH CHROME LEGS
MT	122, 126, 127	SQUARE MEETING TABLE - FOUR-POINT BASE, 36"W, STRAIGHT (1-3/16")	3	PLASTIC LAMINATE DESK TOP - STORM WHITE WITH SILVER DESK LEGS
HAT-1	123, 124, 127	HEIGHT ADJUSTABLE EXTENDED CORNER COMPLETE TABLE, EXTENDED ELECTRICAL (22.6"-48.7"), 23"D A X 23"D B X 70" W A X 70" W B	3	PLASTIC LAMINATE DESK TOP - COASTAL ELM WITH SILVER DESK LEGS
HAT-2	122, 125, 126	HEIGHT ADJUSTABLE COMPLETE TABLE, EXTENDED ELECTRICAL (22.6"-48.7"), 23"D A X 23"D B X 70" W A X 70" W B	3	PLASTIC LAMINATE DESK TOP - COASTAL ELM WITH SILVER DESK LEGS
FHT	122, 125, 126	FIXED HEIGHT COMPLETE TABLE (31"H X 20"D X 36"W)	3	PLASTIC LAMINATE DESK TOP - COASTAL ELM WITH SILVER DESK LEGS
HAMP	122, 123, 124, 125, 126, 127	HEIGHT ADJUSTABLE MODESTY PANEL, SOLID, 17"D X 54"D	6	FABRIC - LITHIUM 4066-04, BITSTREAM COLLECTION
MP	122, 123, 124, 125, 126, 127	MOBILE PEDESTAL WITH CUSHION, PENSIL, FILE 22"D *OVERALL HEIGHT	6	
PQ	122, 123, 124, 125, 126, 127	POWER QUBE, QUAD - 3 POWER/ 2 USB/ 0 DATA, DESK EDGE CLAMP, 120"L, PLUG-IN	6	
CC	122, 123, 124, 125, 126, 127	CROSS CHANNEL INTEGRATED - 4 OUTLETS	6	
MA	122, 123, 124, 125, 126, 127	MONITOR ARM, SINGLE, SMART CLAMP	12	
ST-1	139	STORAGE UNIT, FILE 4H, 24"D X 36"W X 55"H	2	

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D	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
STATION  
160 RIVALDA RD

PROJECT NO:

9119-19-0162 / IBI 122260

DRAWN BY:

A. KVASNIUK

CHECKED BY:

L. BANDIERA

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

E. FENUTA

SHEET TITLE

MEZZANINE LEVEL  
FURNITURE PLAN -  
ENLARGED PRIVATE  
OFFICES

SHEET NUMBER

G21-086-A2712

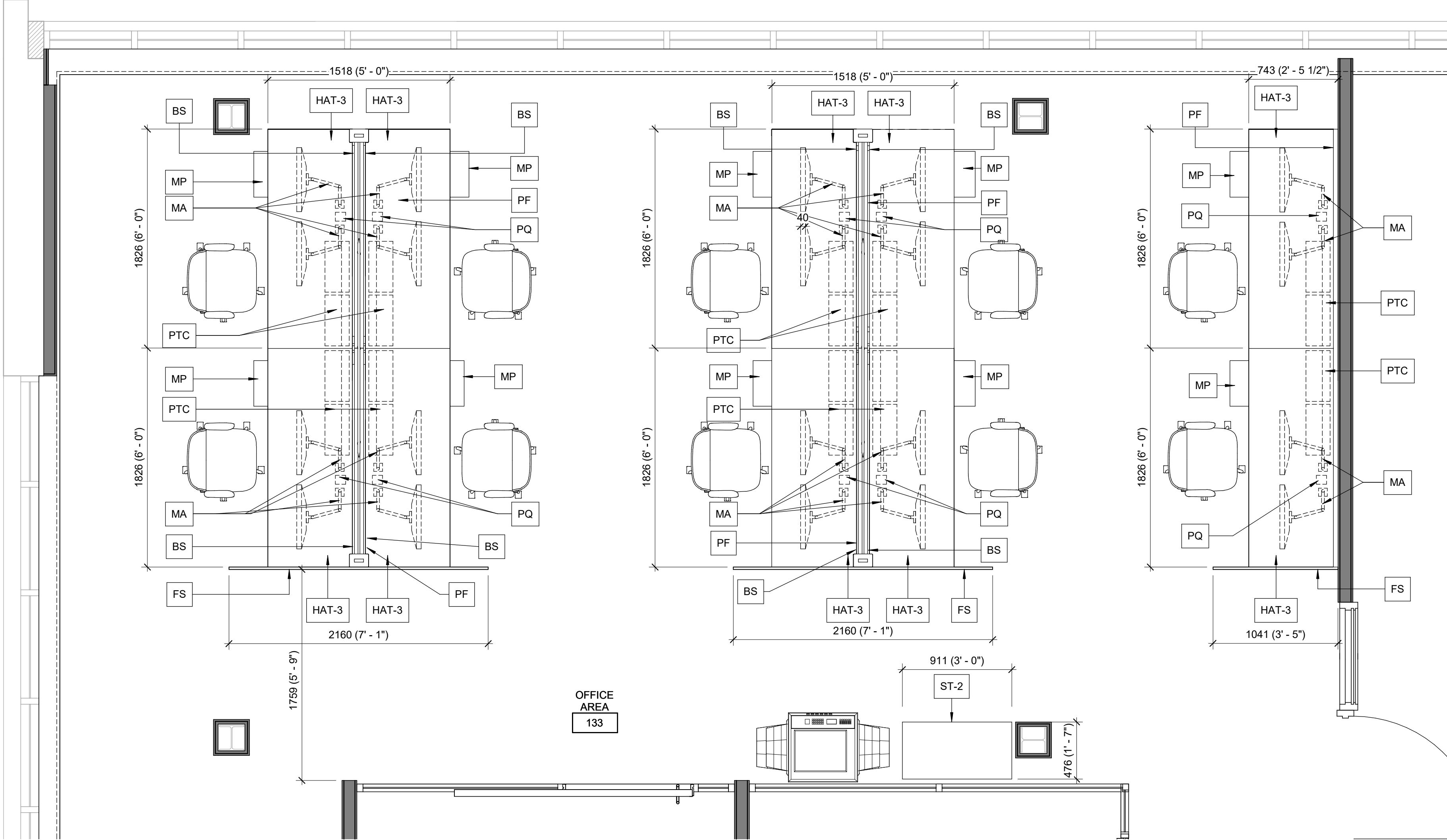
ISSUE

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OPEN OFFICE FF+E SCHEDULE				
TAG	ROOM NO.	DESCRIPTION	QTY.	REMARKS
BS	133	ACCESSORY BEAM SCREEN, 51" DATUM HEIGHT, 72"W * TO MOUNT TO POWER SPINE PANEL	6	FABRIC - LITHIUM 4066-04, BITSTREAM COLLECTION
PF	133	METAL POWER/ COMM. FASCIA, 2 DUPLEX OUTLETS PLUS VDM, LEFT, BOTTOM OF FASCIA, 13"H X 72"W	10	
MP	133	MOBILE PEDESTAL WITH CUSHION, PENSIL, FILE 22"D *OVERALL HEIGHT	10	
FS	133	LATERAL FLOOR SCREEN SOLID, END MOUNTED DOUBLE, 51" TOTAL HT, 42"D, LEFT, NO SCREEN SUPPORT	5	FABRIC - LITHIUM 4066-04, BITSTREAM COLLECTION
HAT-3	133	HEIGHT ADJUSTABLE COMPLETE TABLE, EXTENDED ELECTRICAL (22.6"-48.7"), 28"D A X 28"D B X 70" W A X 70"W B	10	PLASTIC LAMINATE DESK TOP - STORM WHITE WITH SILVER DESK LEGS
IP	133	INSERT PANEL, 29"H X 144W (TWO 72" PANELS)	6	
PQ	133	POWER QUBE, QUAD - 3 POWER/ 2 USB/ 0 DATA, DESK EDGE CLAMP, 120"L, PLUG-IN	10	
PTC	133	PLASTIC TRAY CABLE MANAGEMENT, DUAL PLASTIC TRAYS	10	
MA	133	MONITOR ARM, SINGLE, SMART CLAMP	20	
ST-2	133	STORAGE UNIT, 18"D X 36"W X 21"H	1	

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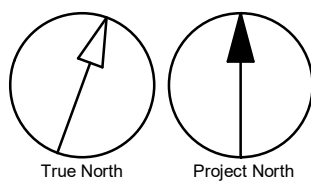
PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

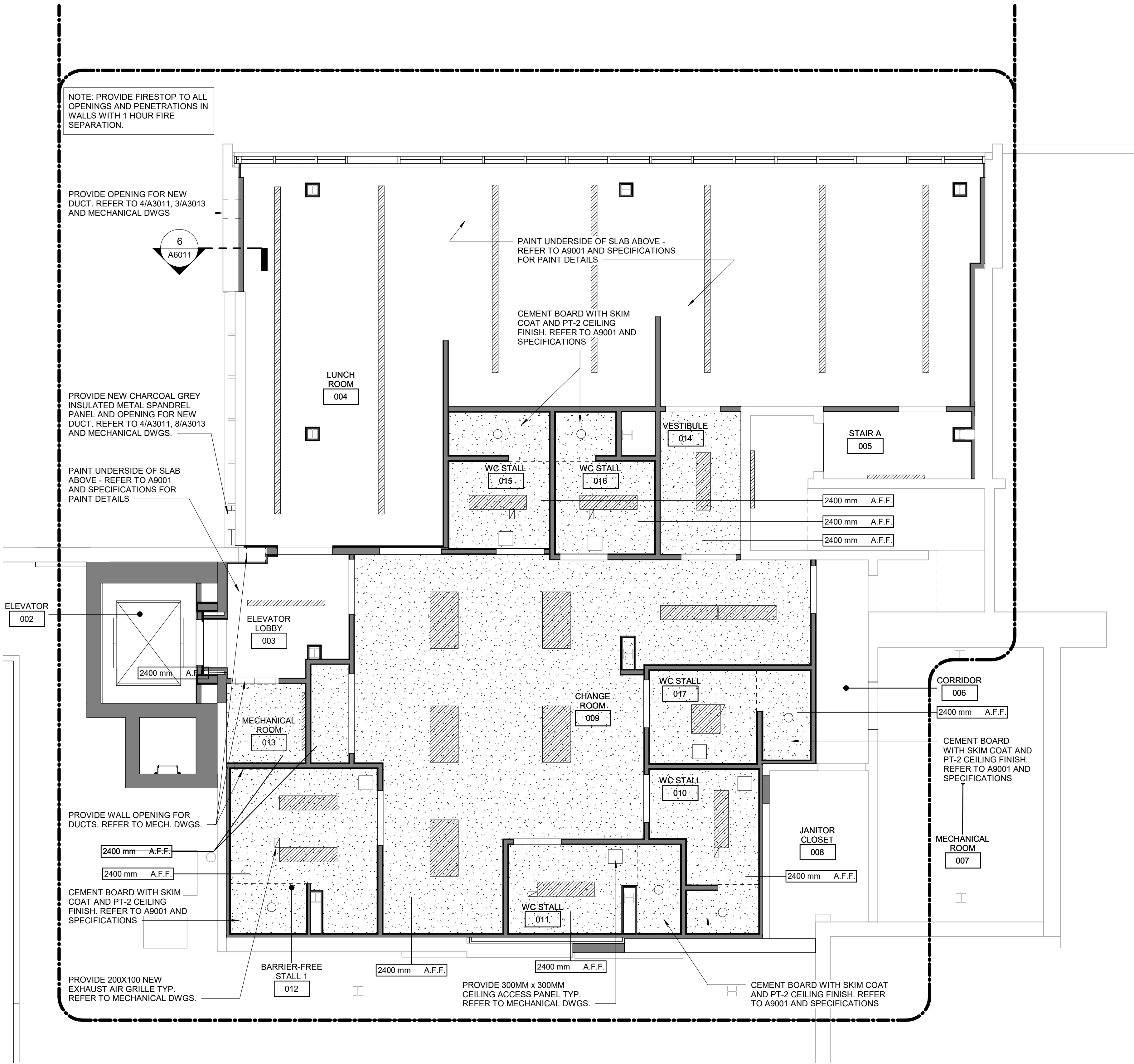
PROJECT NO:  
9119-19-0162 / IBI 122260  
DRAWN BY:  
**A. KVASNIUK**  
PROJECT MGR:  
**F. BOLOURIAN**  
CHECKED BY:  
**L. BANDIERA**  
APPROVED BY:  
**E. FENUTA**

SHEET TITLE  
**MEZZANINE LEVEL  
FURNITURE PLAN -  
ENLARGED OPEN AREA**

SHEET NUMBER  
**G21-086-A2713**  
ISSUE  
**D**







### CEILING LEGEND

	SUSPENDED METAL GRID AND LAY-IN ACOUSTIC TILE SIZE TO MATCH EXISTING
	GYPSUM BOARD CEILING AND BULKHEAD
	SUPPLY / RETURN DUCT
	CEILING, PENDANT OR WALL MOUNTED LUMINAIRE
	CEILING MOUNTED LUMINAIRE
	DASHED AREA INDICATES AREA OF WORK

### CEILING GENERAL NOTES

1	PROPOSED CEILING HEIGHT TO MATCH EXISTING, UNLESS OTHERWISE NOTED.
---	--

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F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT REV. 2	2024-06-13
H	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
I	ISSUED FOR TENDER	2025-09-08

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tel 416 679 1930  
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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**A. KVASNIUK**

CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**E. FENUTA**

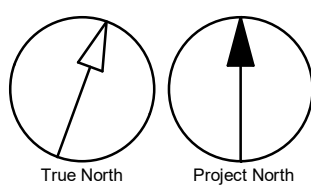
SHEET TITLE  
**BASEMENT REFLECTED  
CEILING PLAN**

SHEET NUMBER

**G21-086-A2801**

ISSUE

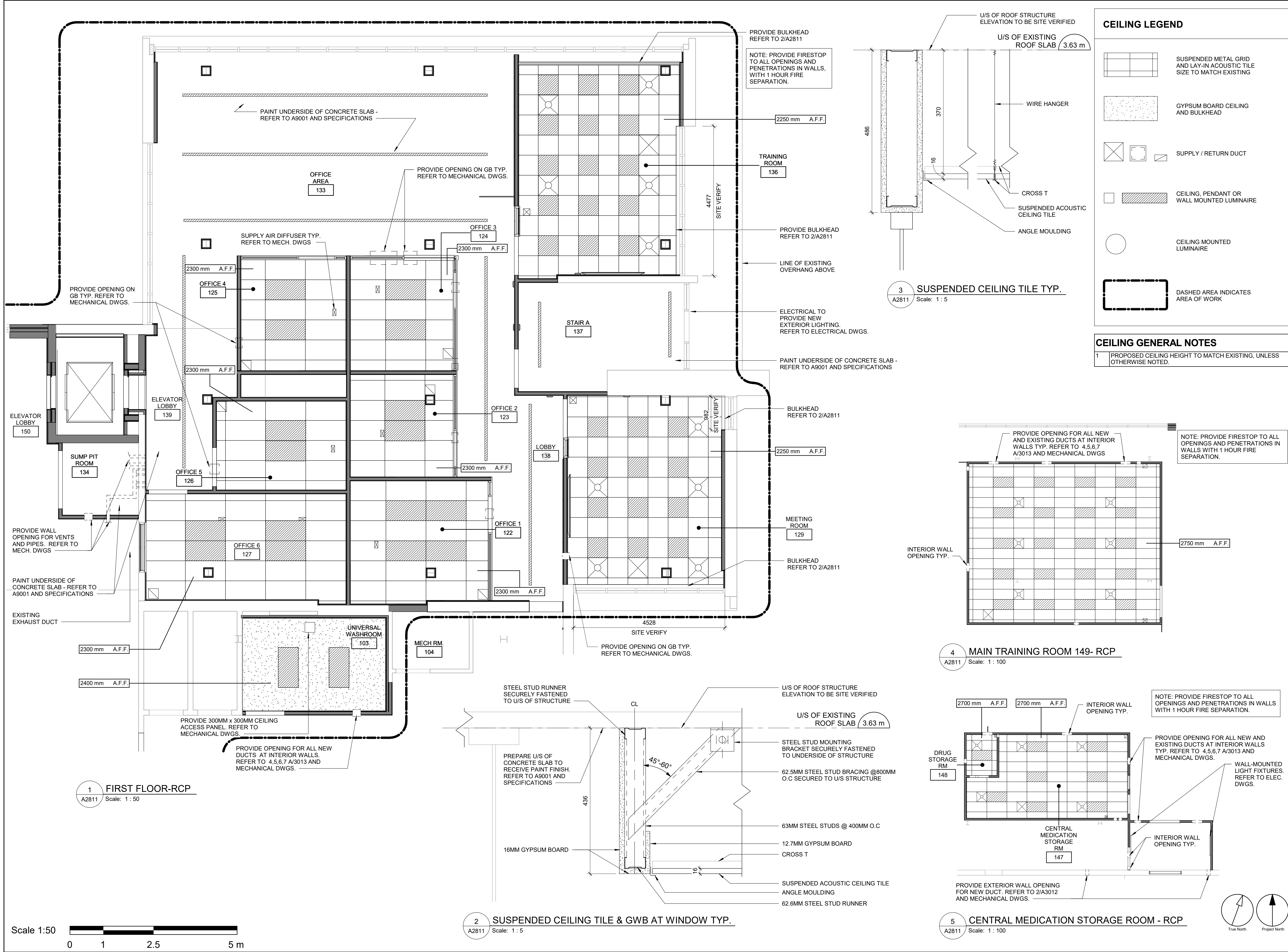
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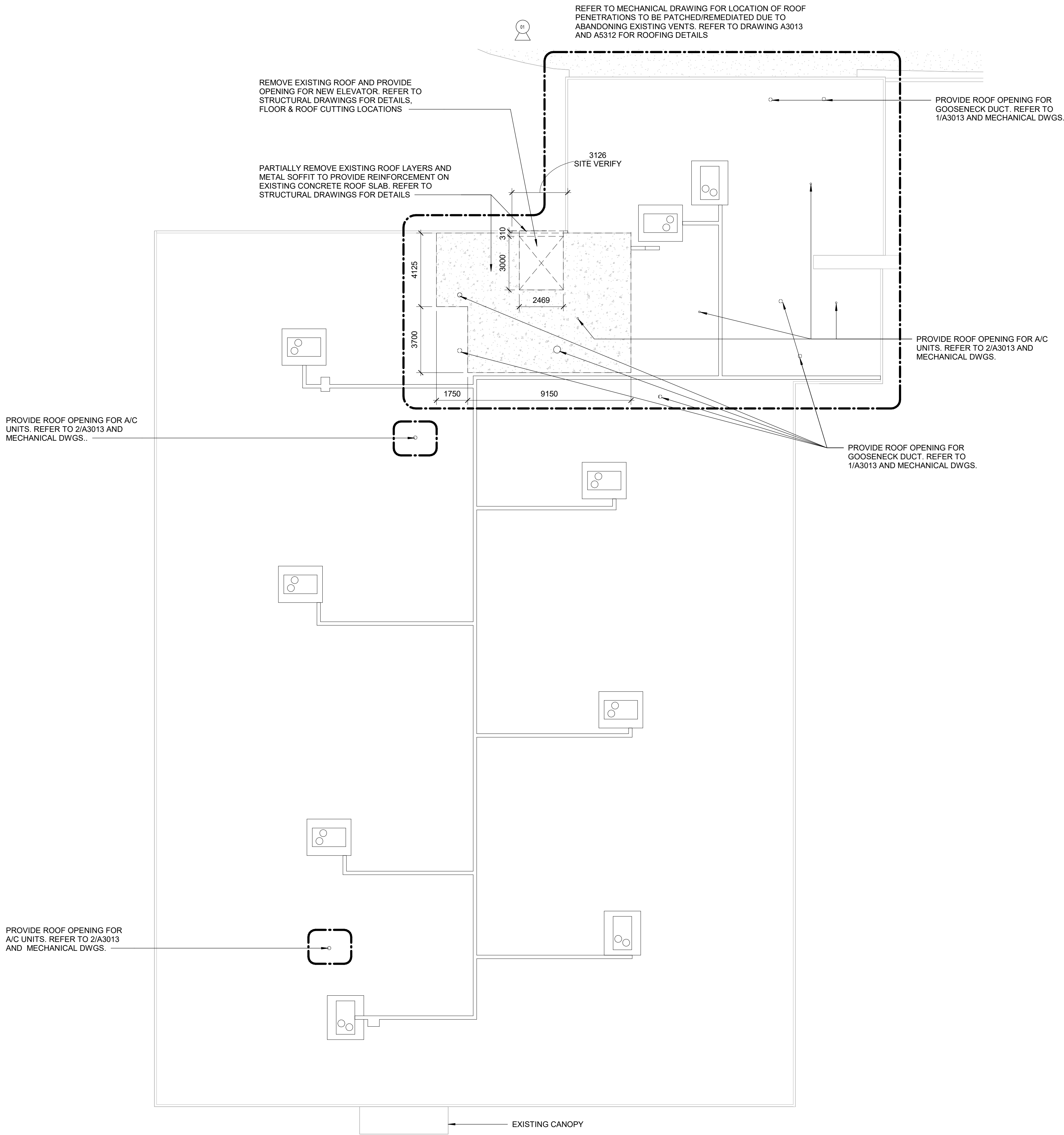
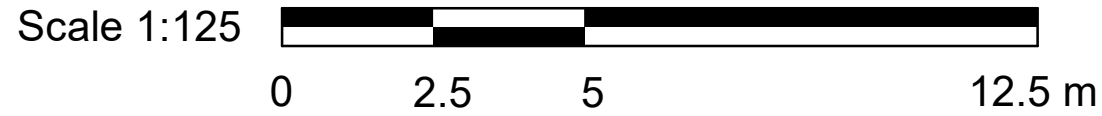
Autodesk Docs // 122260 - Cot TAU Upgrades R2024122260-TAU-5-66-160RVLDA-A-R201.rvt 1/10



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PROJECT TITLE		
CITY OF TORONTO ACCESSIBILITY UPGRADES		
PROJECT ADDRESS		
NEW PARAMEDICS STATION 160 RIVALDA RD		
PROJECT NO:		
9119-19-0162 / IBI 122260		
DRAWN BY:		CHECKED BY:
A. KVASNIUK / M. V.		L. BANDIERA
PROJECT MGR:		APPROVED BY:
F. BOLOURIAN		E. FENUTA
SHEET TITLE		
GROUND FLOOR AND MEZZANINE REFLECTED CEILING PLANS		
SHEET NUMBER		ISSUE
G21-086-A2811		J



2025-09-08 1:00:47 PM



#### DEMOLITION KEY LEGEND

- EXISTING TO BE DEMOLISHED
- - - - - EXISTING PARTITION TO BE DEMOLISHED
- ===== EXISTING EXTERIOR WALL TO REMAIN
- [Dashed Box] DASHED AREA INDICATES AREA OF WORK



PHOTO 01: REMOVE PORTION OF METAL SOFFIT

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**A. KVASNIUK / M. V.**

CHECKED BY:  
**L. BANDIERA**

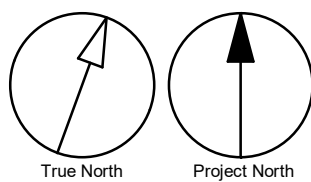
PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**E. FENUTA**

SHEET TITLE  
**ROOF PLAN -  
DEMOLITION PLAN**

SHEET NUMBER  
**G21-086-A2911**

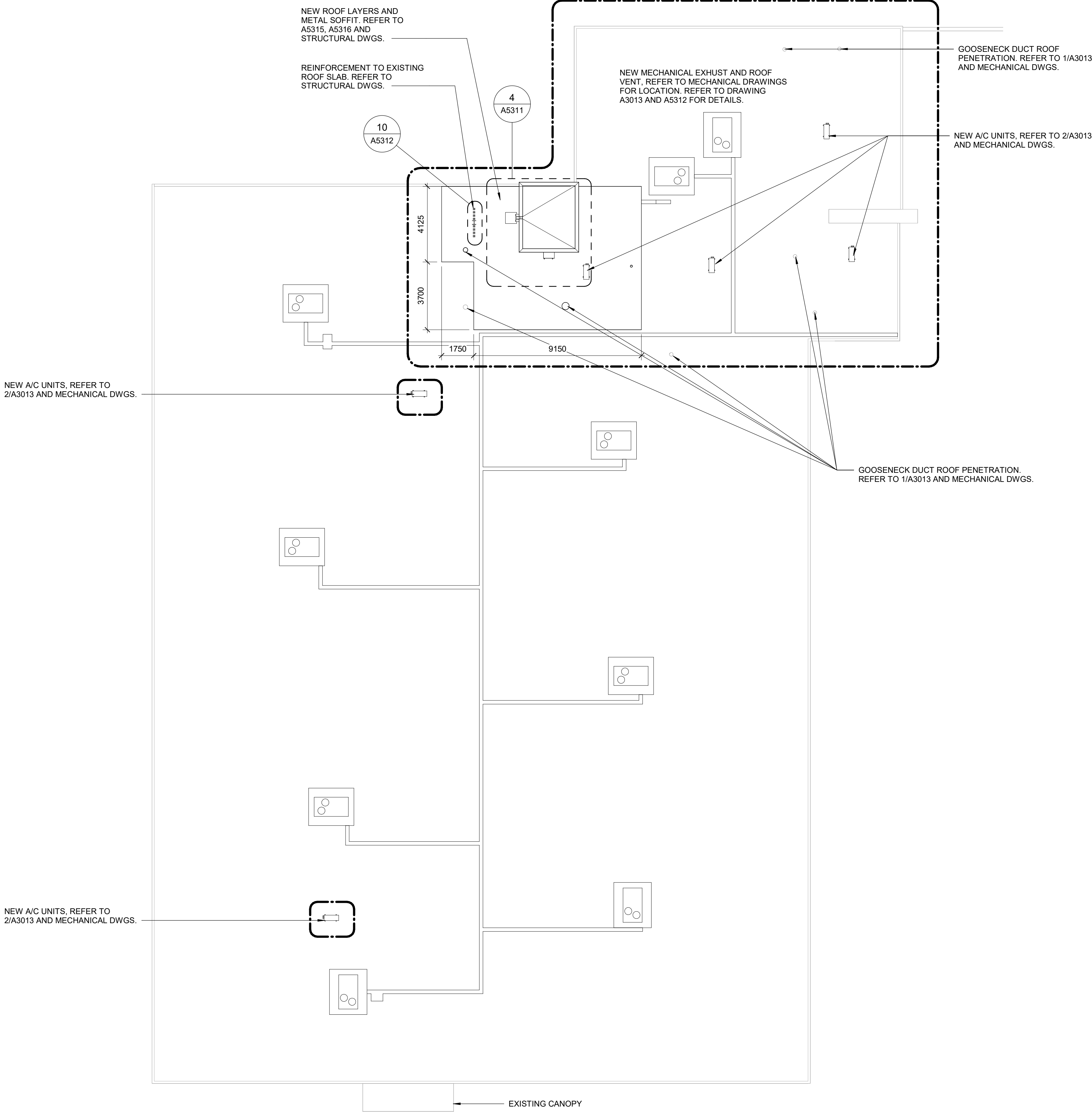
ISSUE  
**H**



2025-09-08 1:00:48 PM

Scale 1:125

0 2.5 5 12.5 m



#### CONSTRUCTION KEY LEGEND

- EXISTING EXTERIOR WALL TO REMAIN
- EXISTING PARTITION TO REMAIN
- NEW EXTERIOR WALL REFER TO WALL SCHEDULE
- NEW PARTITION REFER TO PARTITION SCHEDULE
- DASHED AREA INDICATES AREA OF WORK

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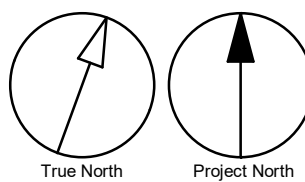
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DRAWN BY: <b>A. KVASNIUK / M. V.</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

SHEET TITLE  
**ROOF PLAN - PROPOSED  
PLAN**

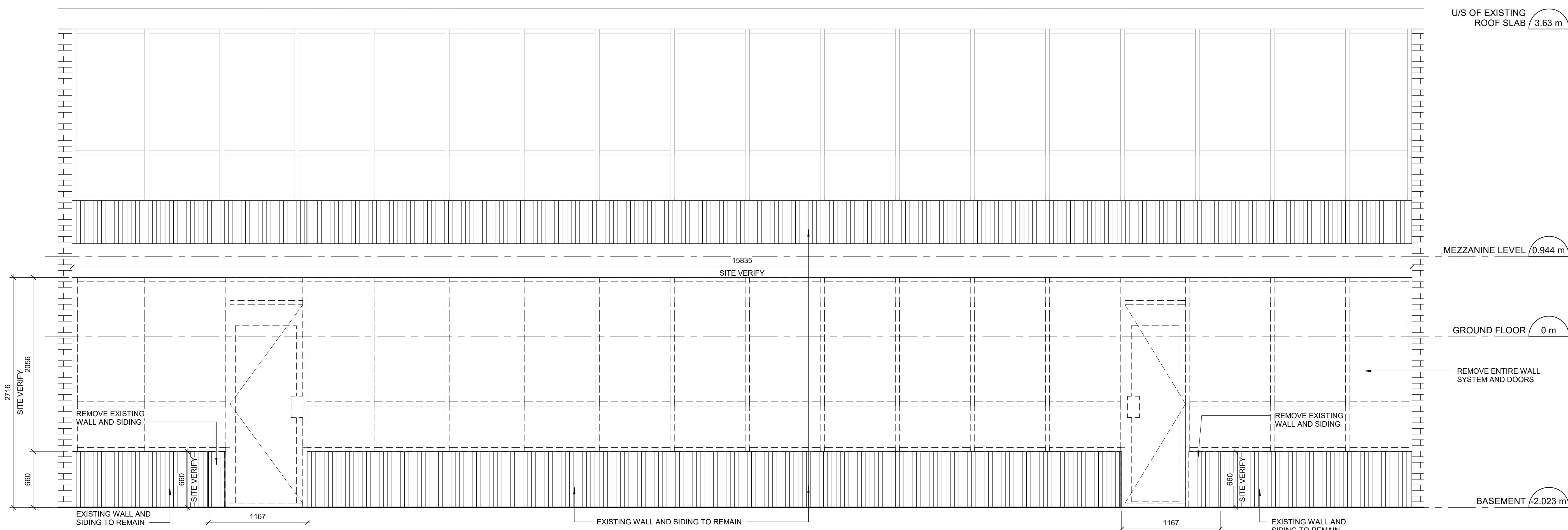
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**G21-086-A2912**

ISSUE  
**H**

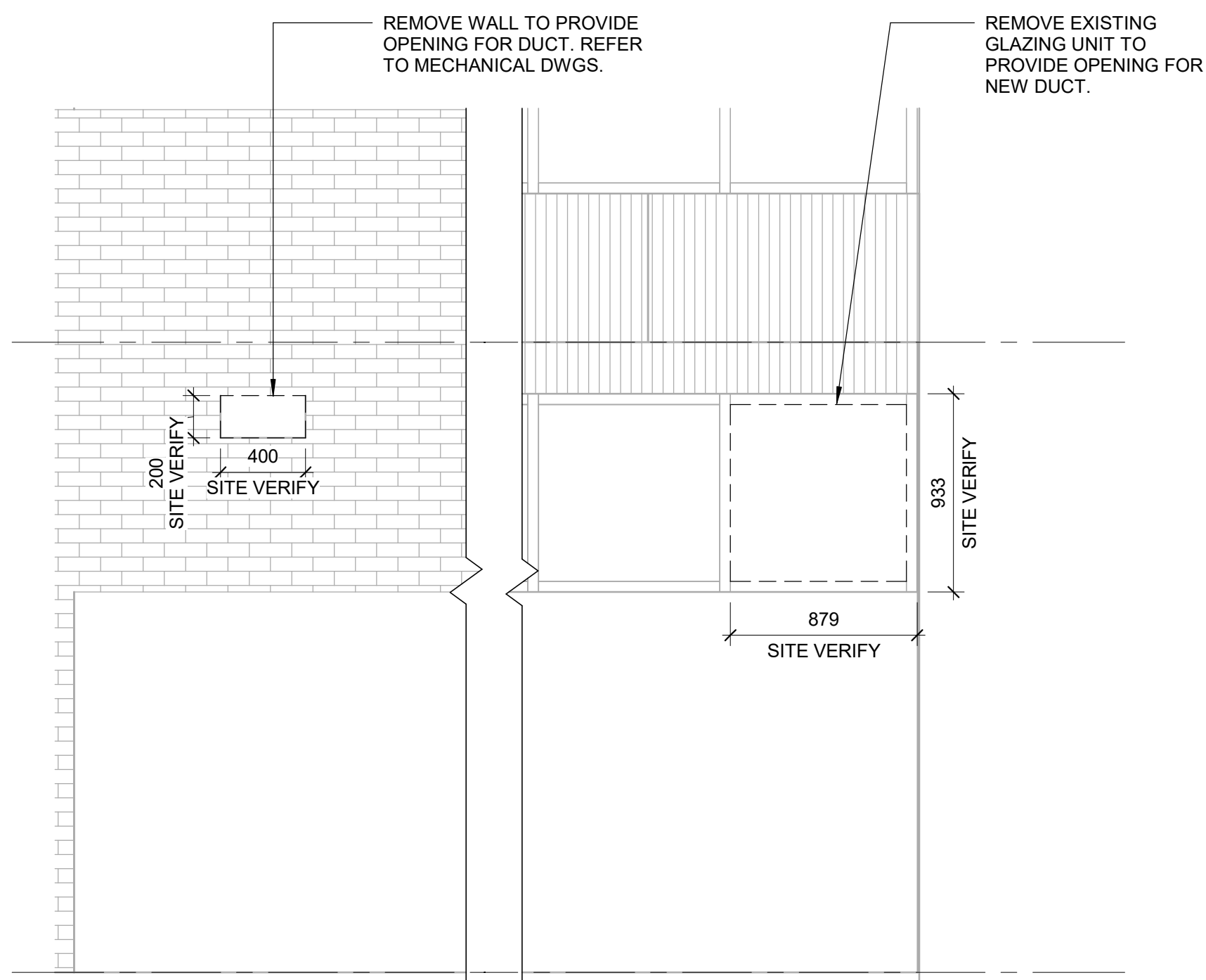


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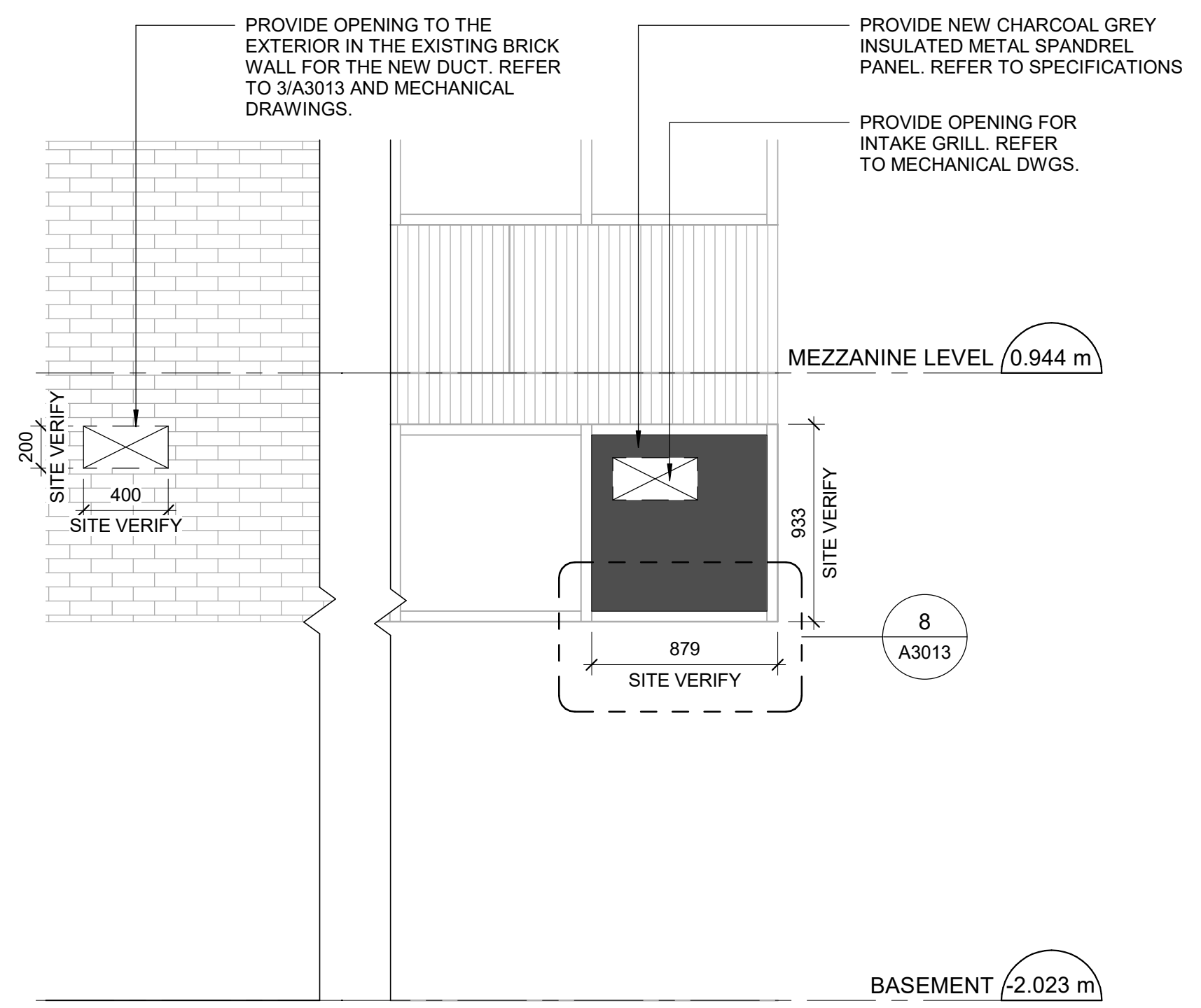




1 BASEMENT FLOOR EXTERIOR GLAZING - DEMOLITION NORTH ELEVATION  
A3011 Scale: 1 : 25



3 BASEMENT FLOOR EXT. GLAZING - DEMOLITION WEST ELEVATION  
A3011 Scale: 1 : 25



4 BASEMENT FLOOR EXT. GLAZING - WEST ELEVATION  
A3011 Scale: 1 : 25

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DRAWN BY:  
A. KVASNIUK / M. V.  
CHECKED BY:  
L. BANDIERA  
PROJECT MGR:  
F. BOLOURIAN  
APPROVED BY:  
E. FENUITA

SHEET TITLE  
PARTIAL BUILDING  
ELEVATIONS - DEMOLITION &  
PROPOSED

SHEET NUMBER  
G21-086-A3011  
ISSUE  
I

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Autodesk Docs // 122260 - Cot TAU Upgrades R2024122260-TAU-5-66-160RVLDA-A-R201.rvt  
1 m

[illegible]

PROVIDE OPENINGS TO THE EXTERIOR IN THE EXISTING BRICK WALL FOR THE NEW DUCT. REFER TO 3/A3013 AND MECH. DWGS

EXISTING CANOPY

U/S OF EXISTING ROOF SLAB 3.63 m

1930  
SITE VERIFY

50 713 1117 50

2375  
SITE VERIFY

2325

CR BFPB

1050

NL-100A

VISION STRIPS  
ITGL - REFER TO SPECIFICATION

2175 R.O.  
SITE VERIFY  
2075

2

EXTERIOR DOOR N-100A - ELEVATION

---

A3012

Scale: 1 : 25

Architectural drawing showing a brick wall and a door assembly. The drawing includes dimensions and annotations for construction.

**Dimensions:**

- Overall width: 1930
- Overall height: 2175 R.O.
- Top horizontal segments: 50, 1713, 50, 1067, 50
- Left vertical segments: 80, 2075, 50
- Door frame width: 1270
- Door frame height: 1070
- Door panel width: 330
- Door panel height: 887
- Door handle height: 1050
- Door handle width: 50
- Door handle depth: 50

**Annotations:**

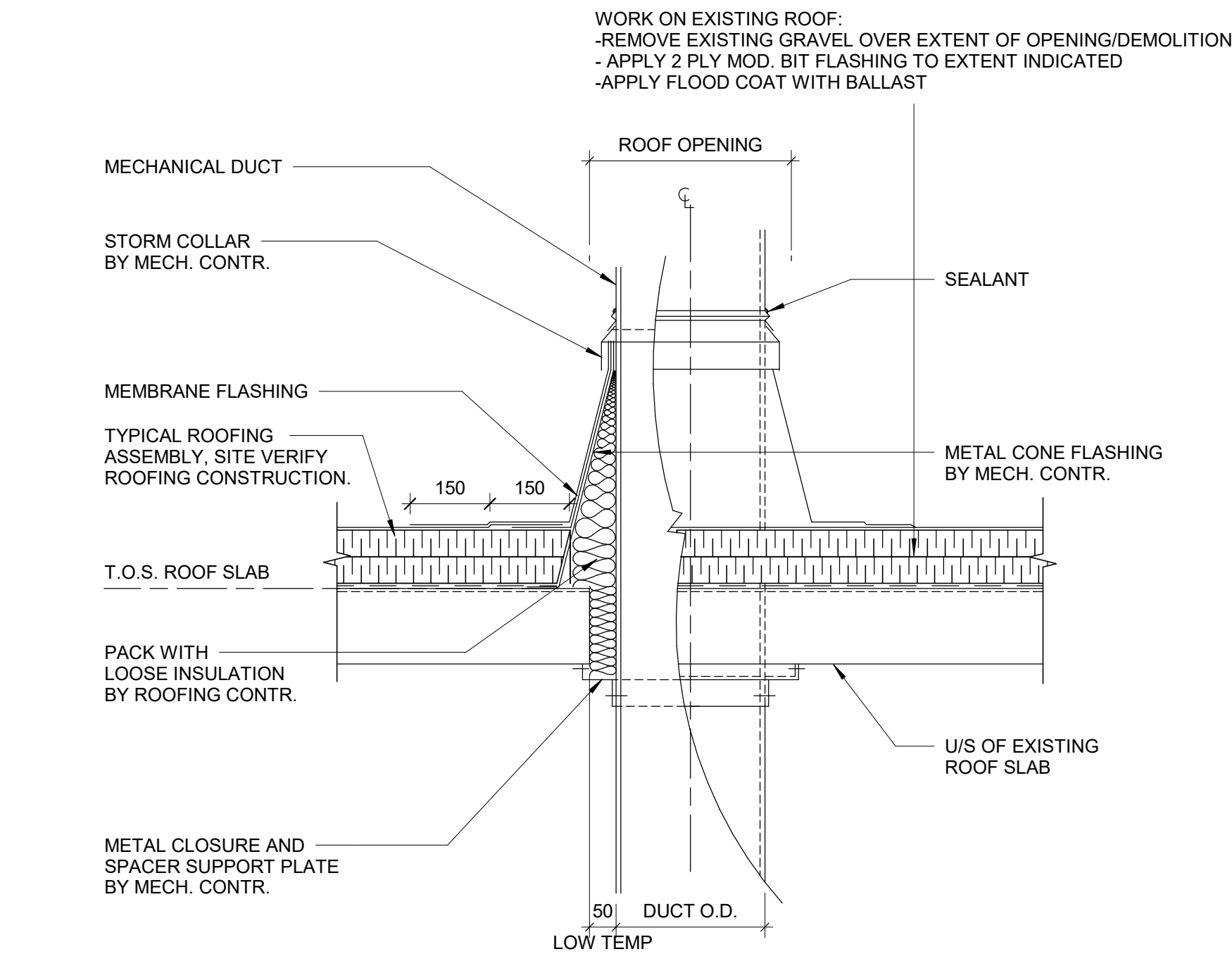
- VISION STRIPS
- ITGL - REFER TO SPECIFICATIONS
- CR
- BFPB
- 100B
- REPLACE EXISTING BRICK DAMAGED AFTER EXISTING PUSH BUTTON REMOVAL. NEW BRICK - BR-2. REFER TO A9001 AND SPECIFICATIONS
- SITE VERIFY

Architectural section drawing of a building facade. The drawing shows a glass door and windows. Key dimensions and annotations include:

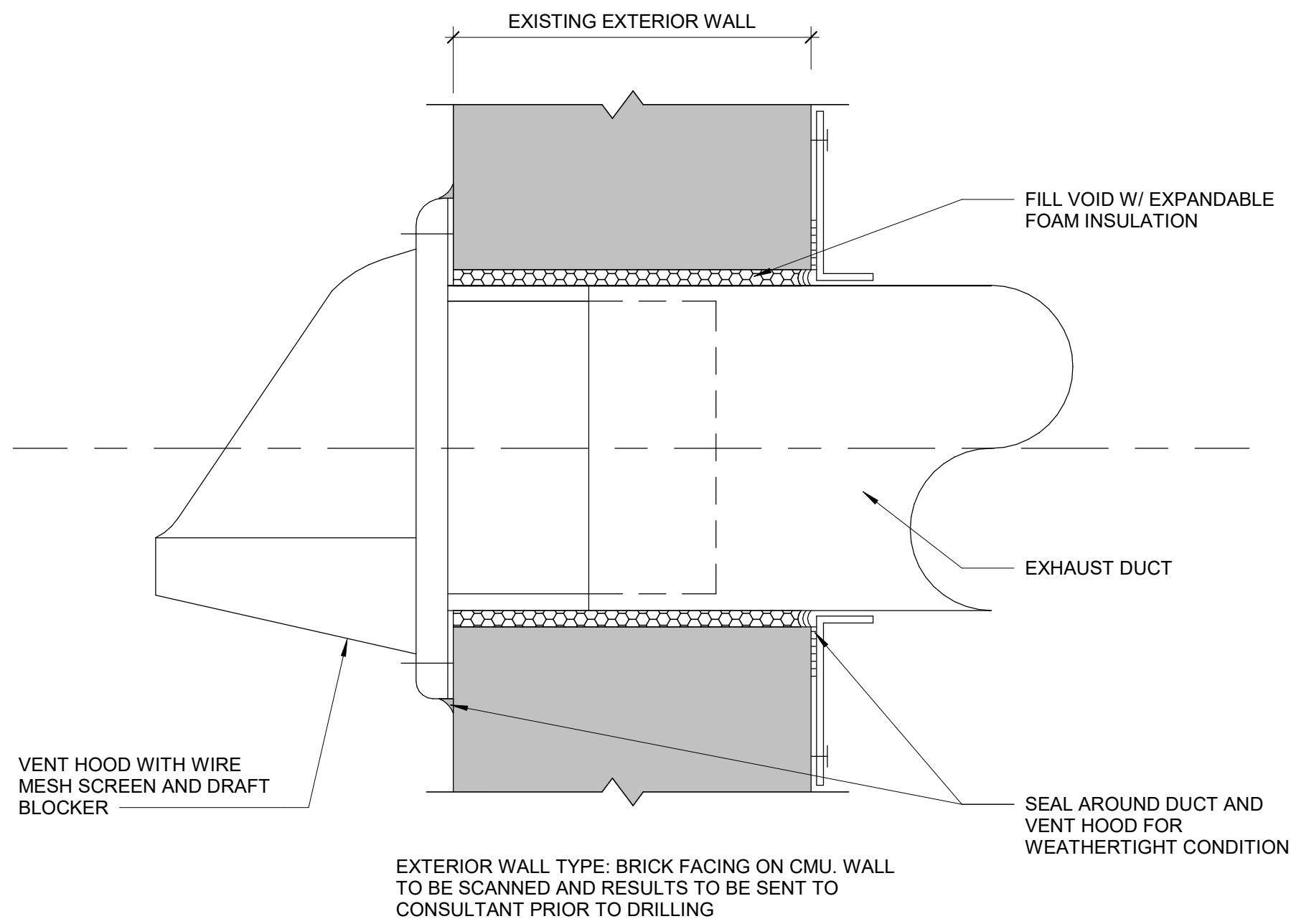
- Dimensions:**
  - Vertical dimension: 1170
  - Horizontal dimension: 530
- Annotations:**
  - PROVIDE NEW VISION STRIPS (pointing to the top and bottom of the glass panels)
  - EXISTING GLAZING, DOOR AND FRAME TO REMAIN (pointing to the existing door and frame)
  - U/S OF EXISTING ROOF SLAB (3.63 m) (indicating the upper level)
  - PROVIDE NEW VISION STRIPS (pointing to the new vision strips on the right side)
  - CR (indicating a center line)
  - GROUND FLOOR (0 m) (indicating the ground level)

SHEET NUMBER	ISSUE
G21-086-A3012	I

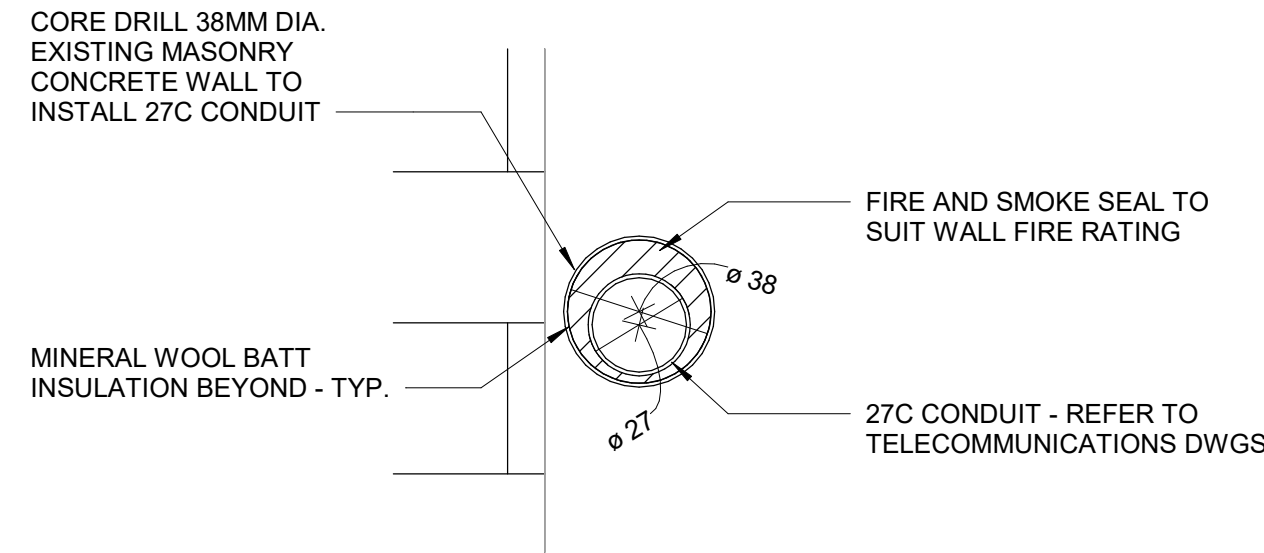




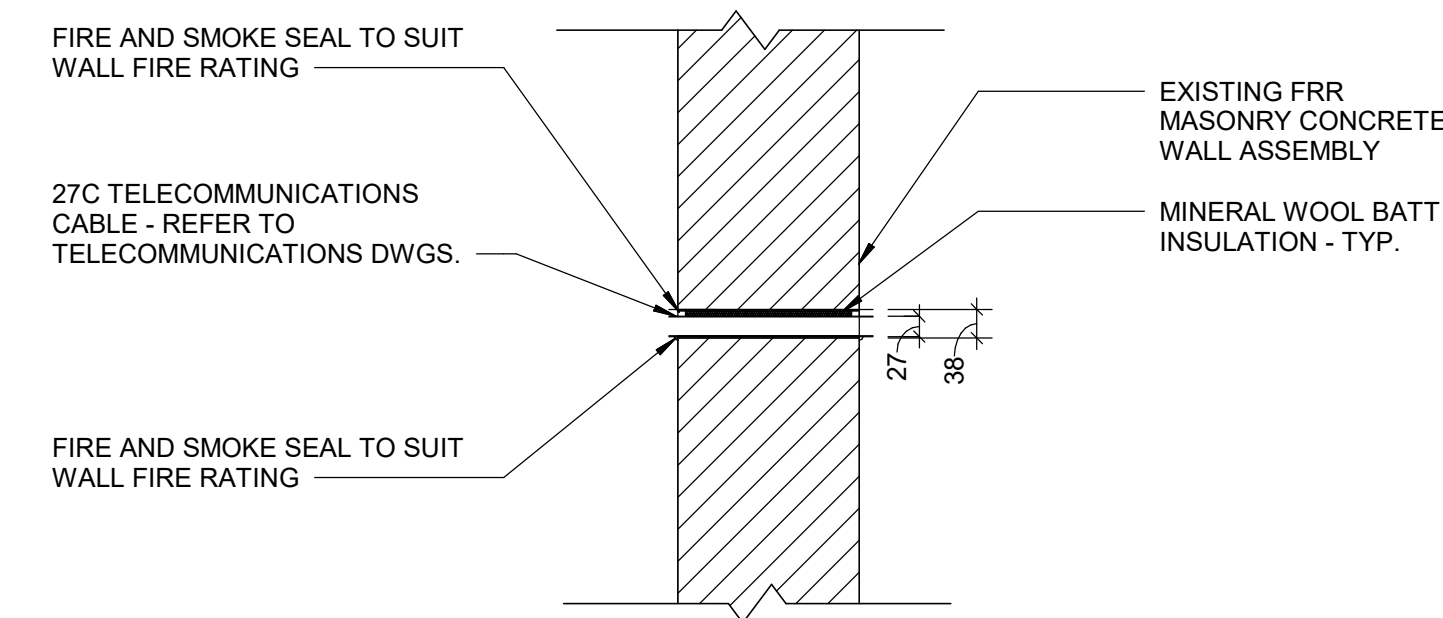
1 EXISTING ROOF PENETRATION DETAIL - GOOSENECK DUCT  
A3013 Scale: 1 : 10



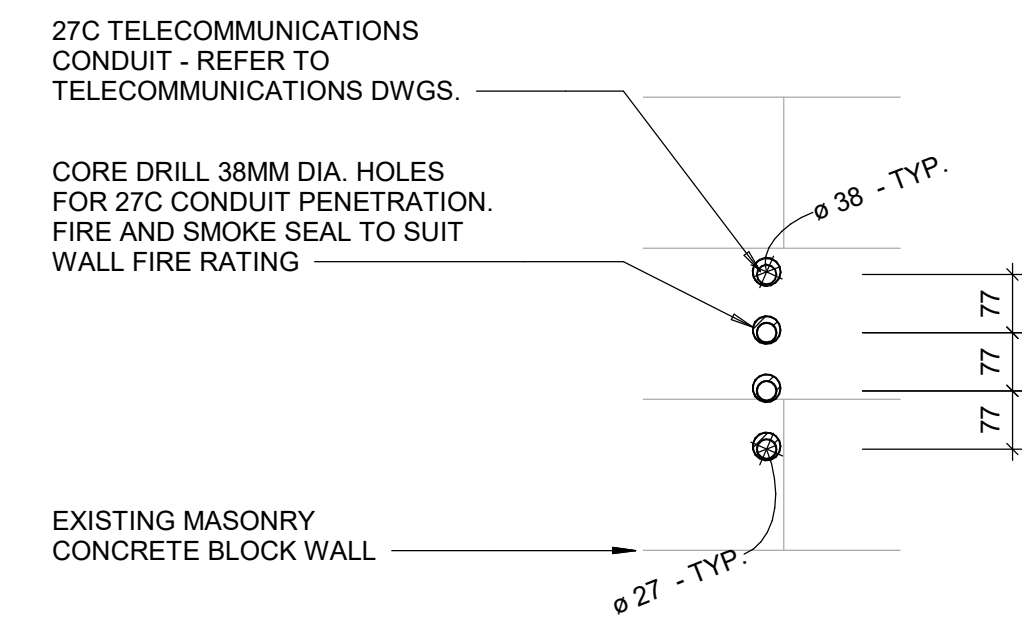
3 TYPICAL EXHAUST DUCT PENETRATION DETAIL AT EXTERIOR WALL  
A3013 Scale: 1 : 10



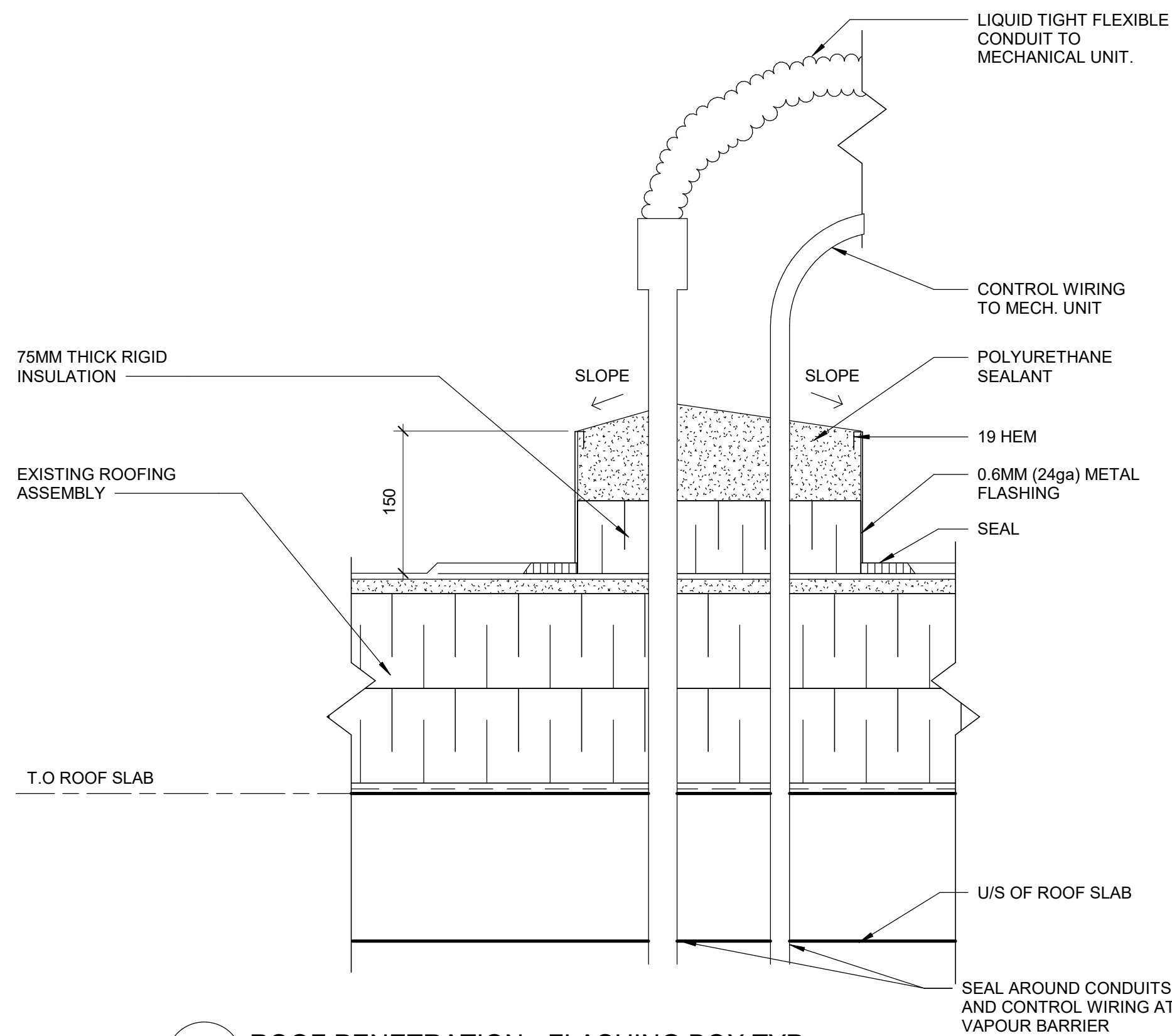
5 SINGLE CONDUIT PENETRATION - TYP.  
A3013 Scale: 1 : 2



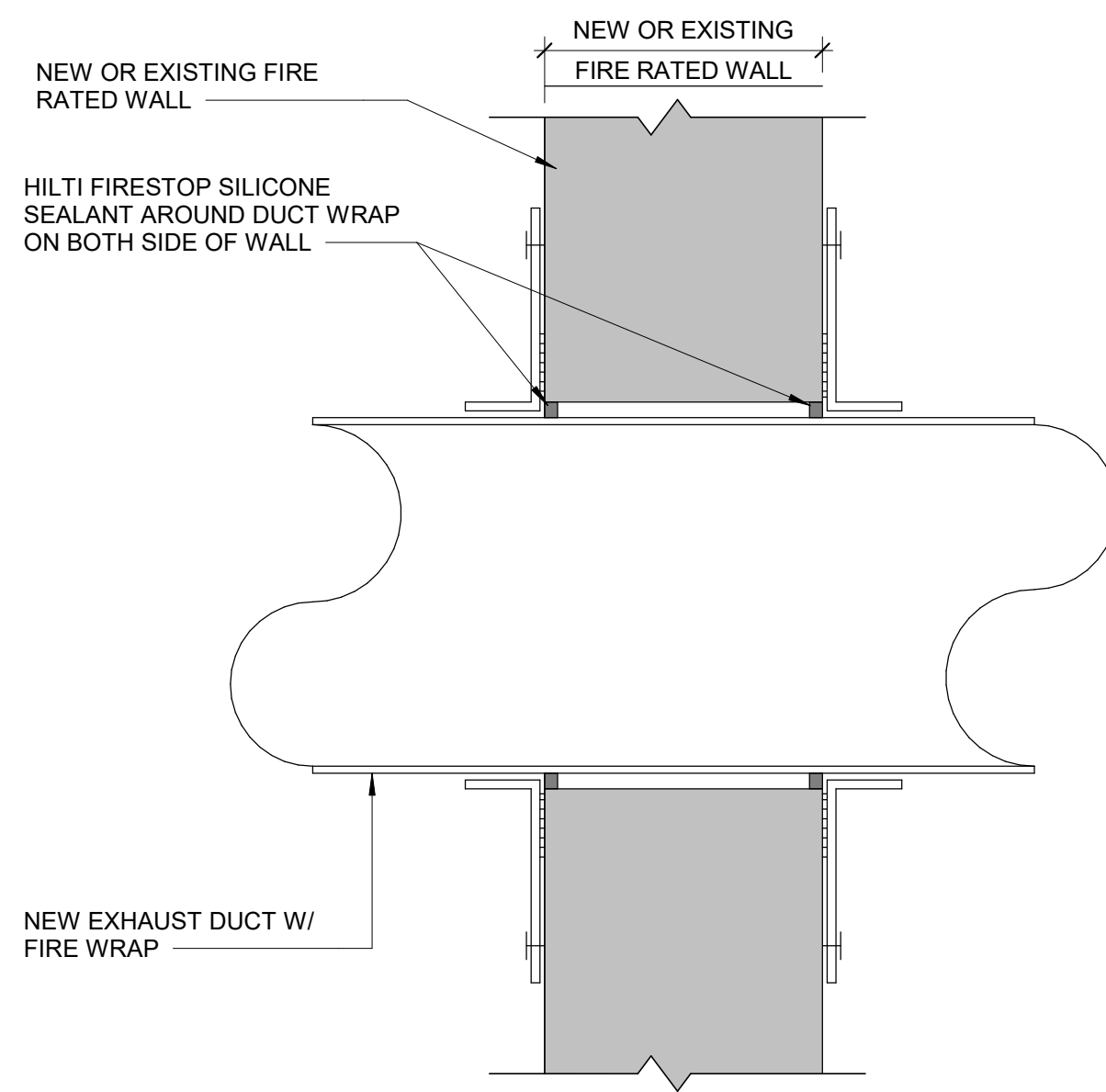
6 SINGLE CONDUIT PENETRATION - SECTION - TYP.  
A3013 Scale: 1 : 10



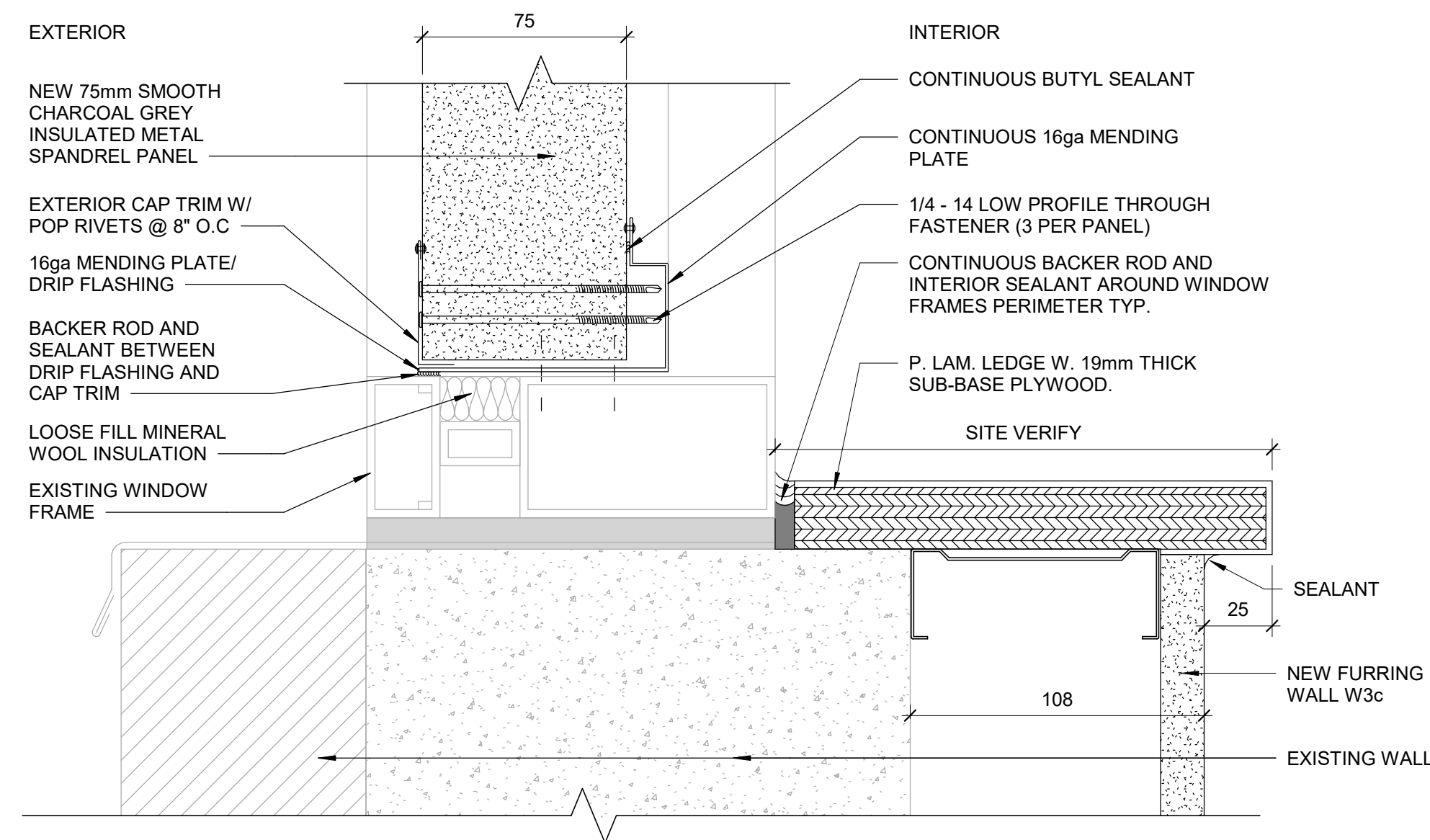
7 CONDUIT PENETRATION - SECTION - TYP.  
A3013 Scale: 1 : 10



2 ROOF PENETRATION - FLASHING BOX TYP.  
A3013 Scale: 1 : 5



4 TYPICAL DUCT PENETRATION DETAIL THROUGH A RATED WALL  
A3013 Scale: 1 : 10



8 BASEMENT - SPANDREL PANEL SECTION DETAIL  
A3013 Scale: 1 : 2

Scale 1:10  
0 .25 .5 1 m

ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR REVISED 100%	2024-04-30
B	ISSUED FOR REVISED PERMIT REV. 2	2024-06-13
C	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
D	ISSUED FOR TENDER	2025-09-08

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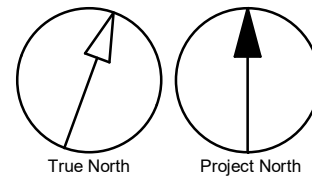
PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY: <b>M. VILLALBA</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

SHEET TITLE  
**ROOF & WALL  
PENETRATIONS DETAILS**

SHEET NUMBER <b>G21-086-A3013</b>	ISSUE <b>D</b>
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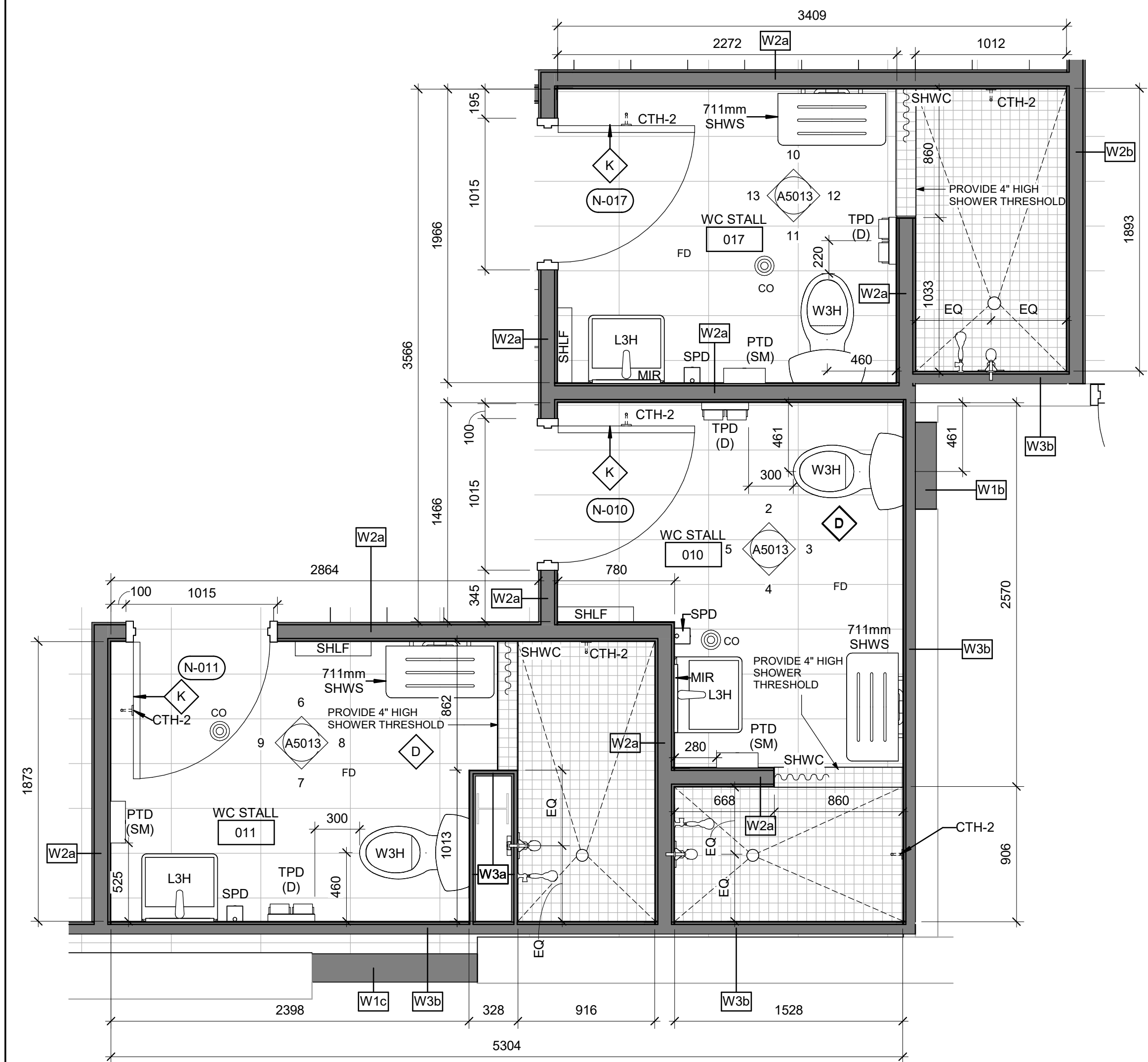


SHEET NUMBER	ISSUE
G21-086-A5011	1

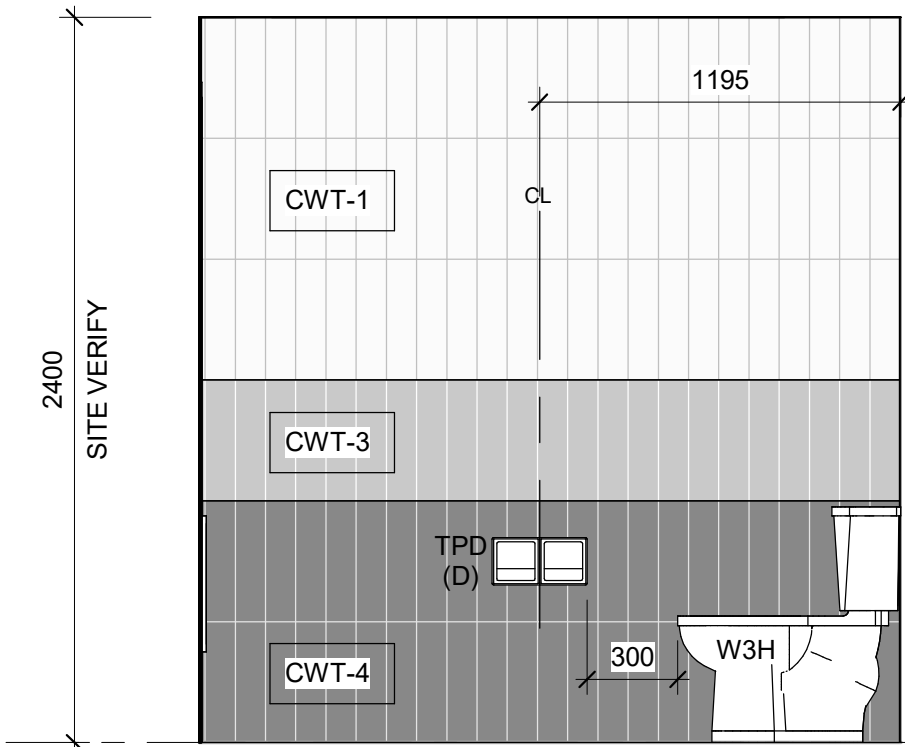




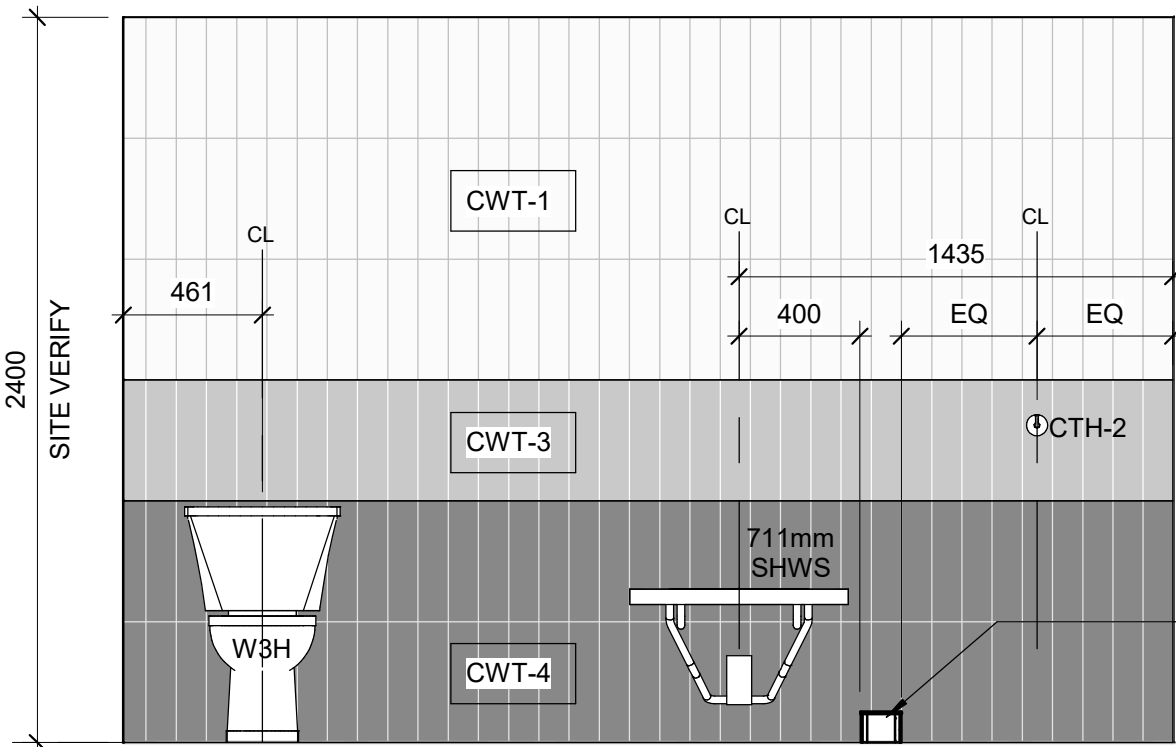




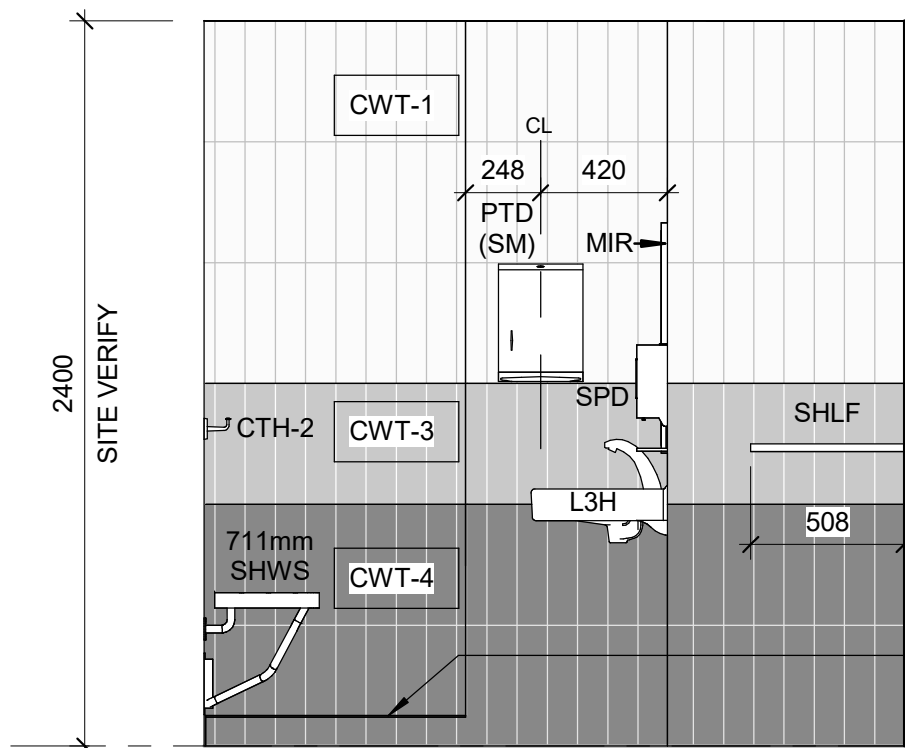
1 WASHROOM STALL 010, 011, AND 017 - ENLARGED PLAN  
A5013 Scale: 1 : 25



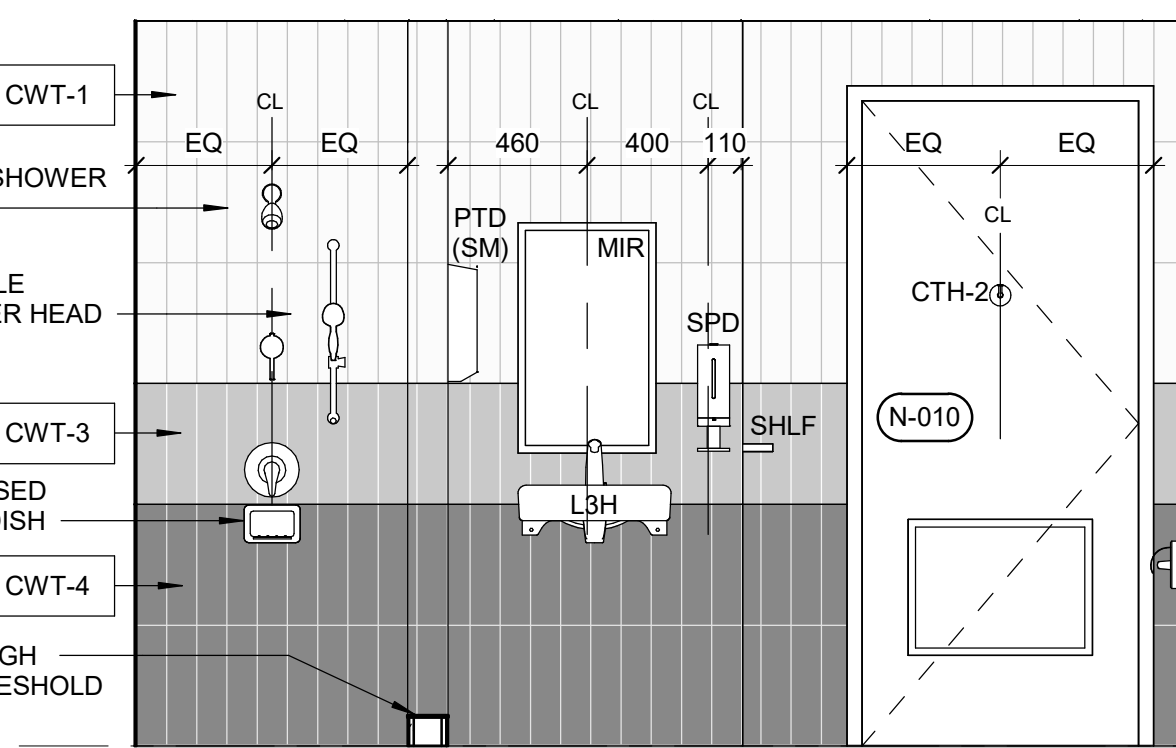
2 WASHROOM STALL 010 - NORTH ELEVATION  
A5013 Scale: 1 : 25



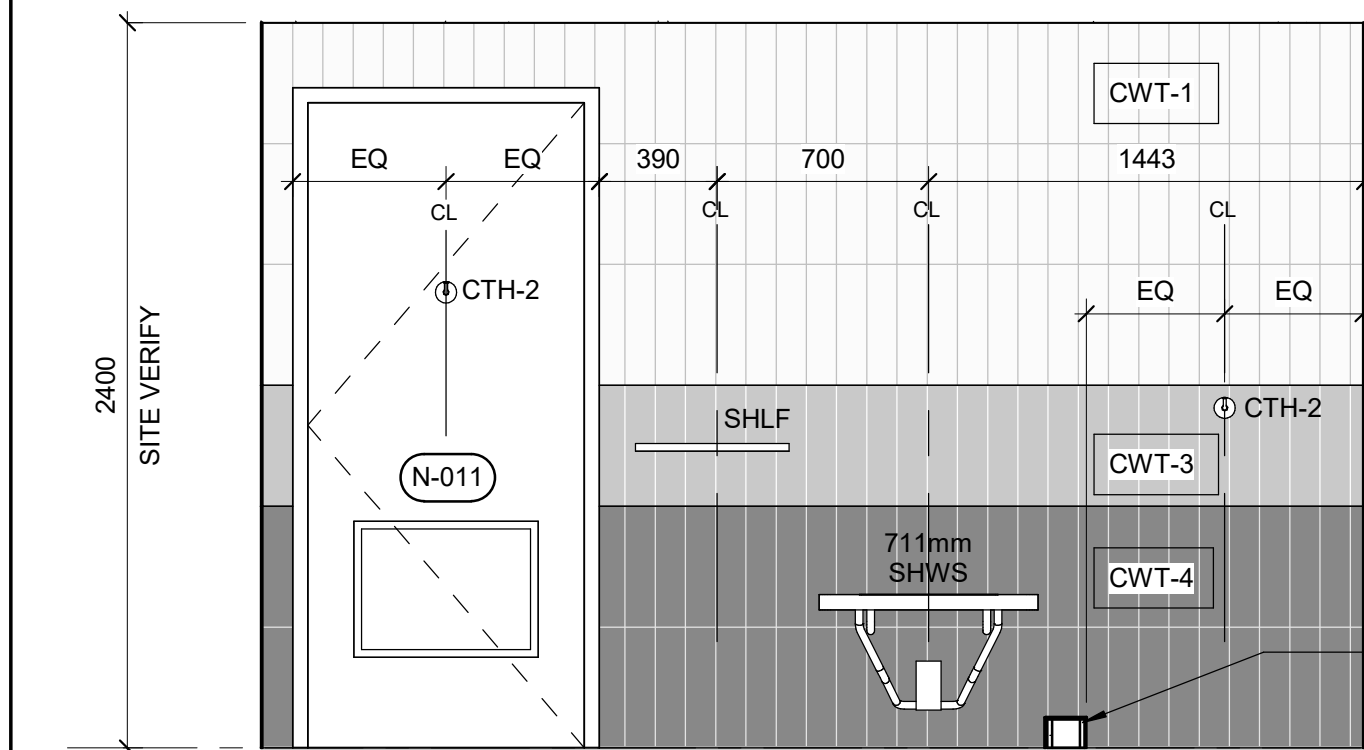
3 WASHROOM STALL 010 - EAST ELEVATION  
A5013 Scale: 1 : 25



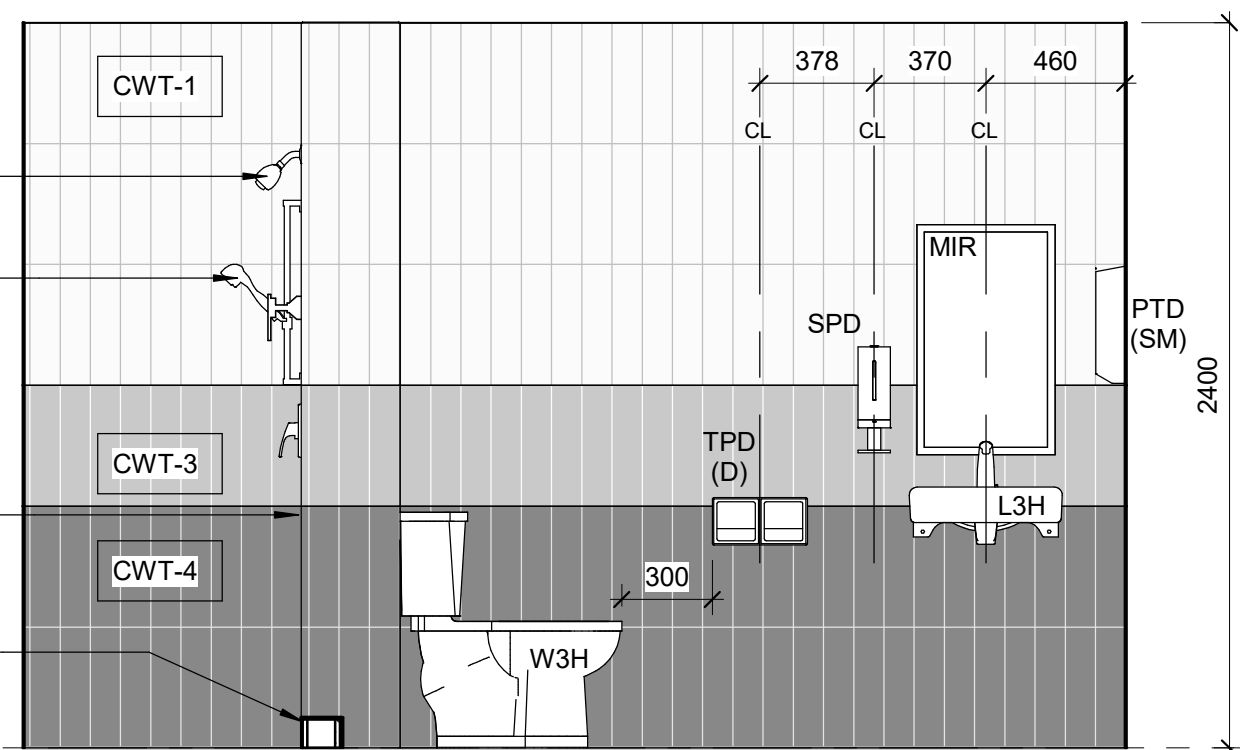
4 WASHROOM STALL 010 - SOUTH ELEVATION  
A5013 Scale: 1 : 25



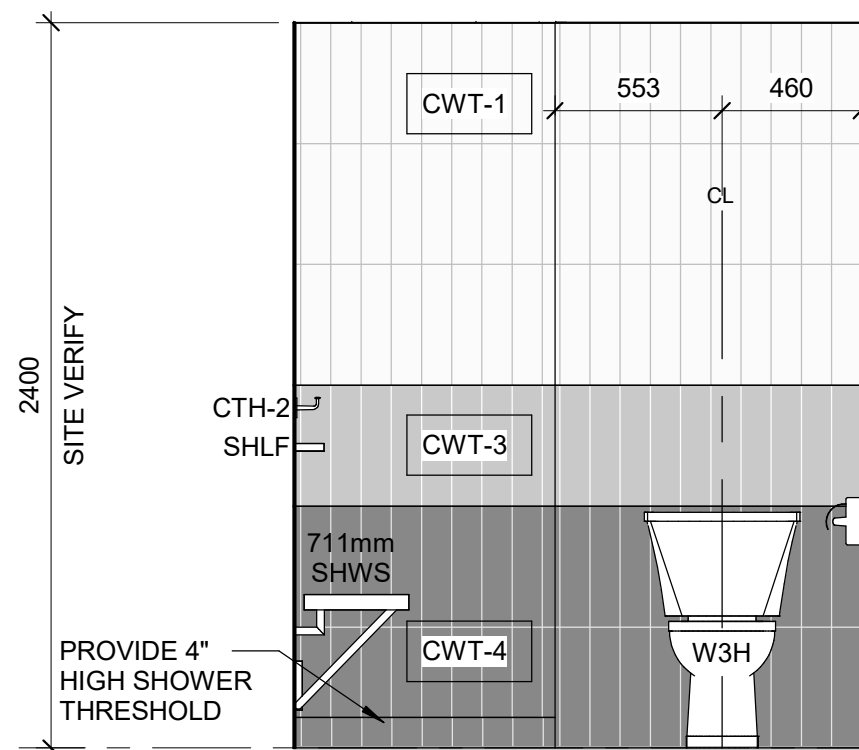
5 WASHROOM STALL 010 - WEST ELEVATION  
A5013 Scale: 1 : 25



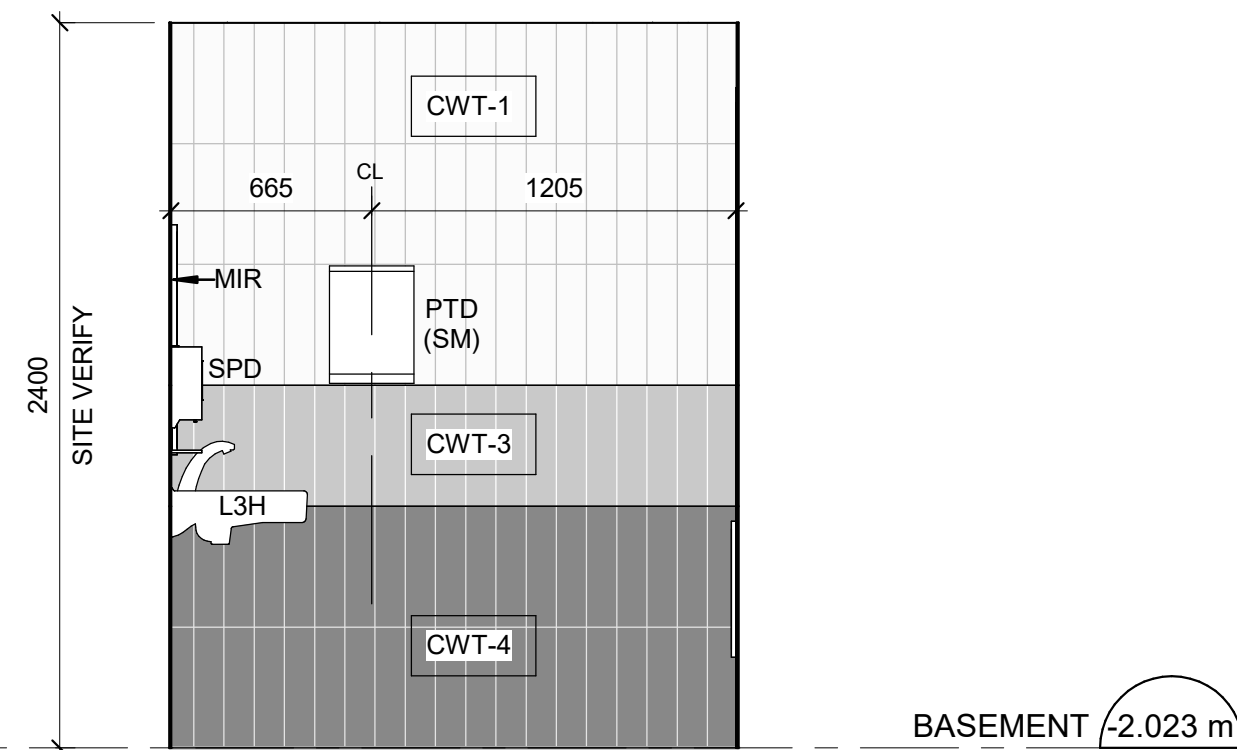
6 WASHROOM STALL 011 - NORTH ELEVATION  
A5013 Scale: 1 : 25



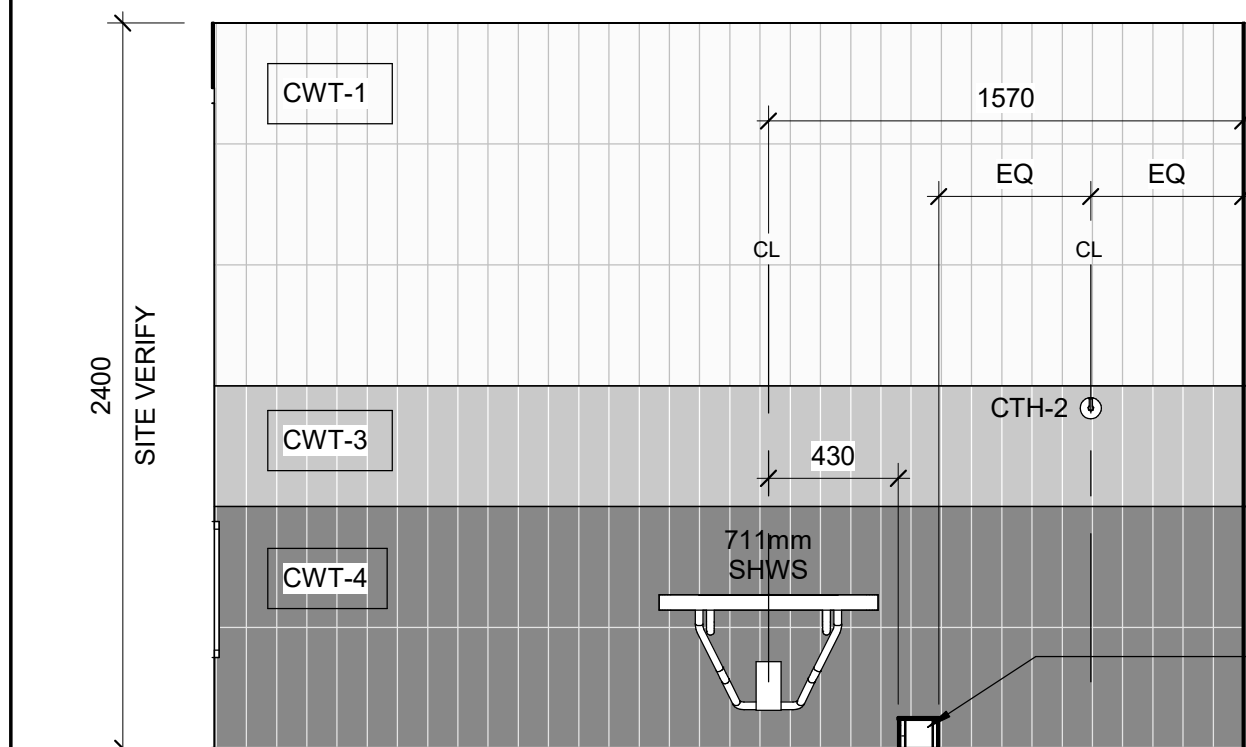
7 WASHROOM STALL 011 - SOUTH ELEVATION  
A5013 Scale: 1 : 25



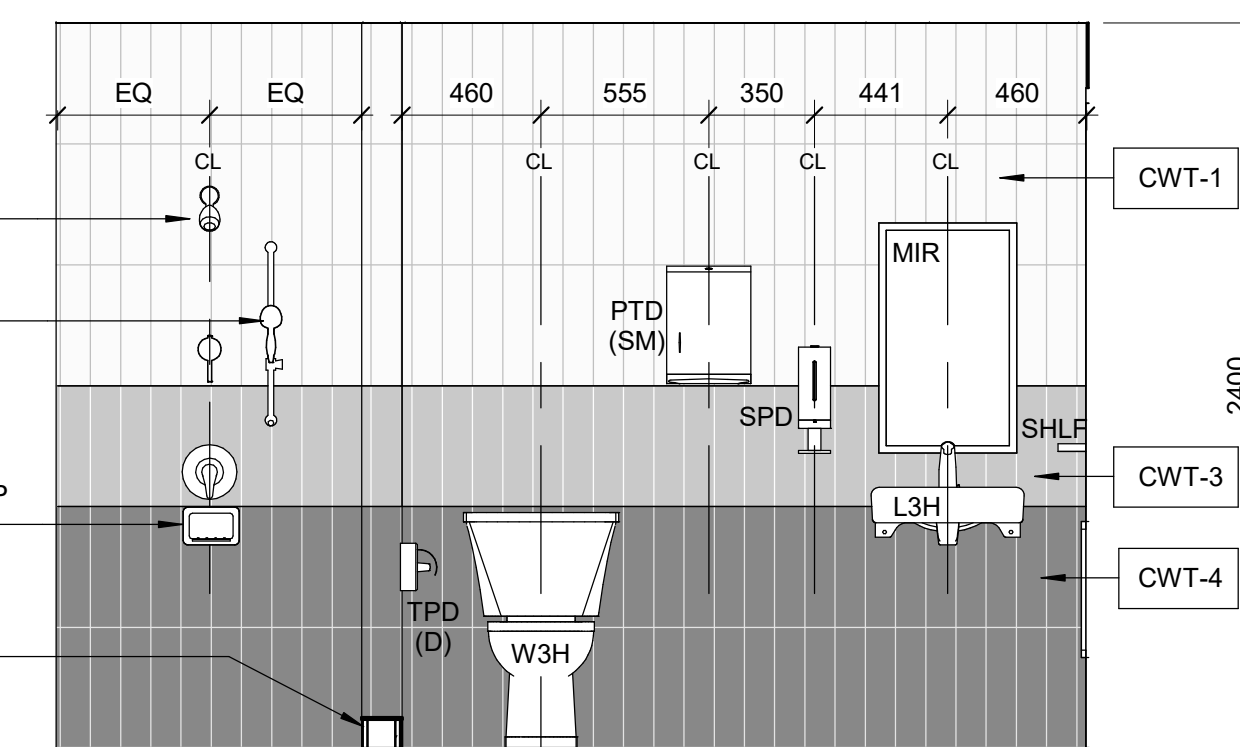
8 WASHROOM STALL 011 - EAST ELEVATION  
A5013 Scale: 1 : 25



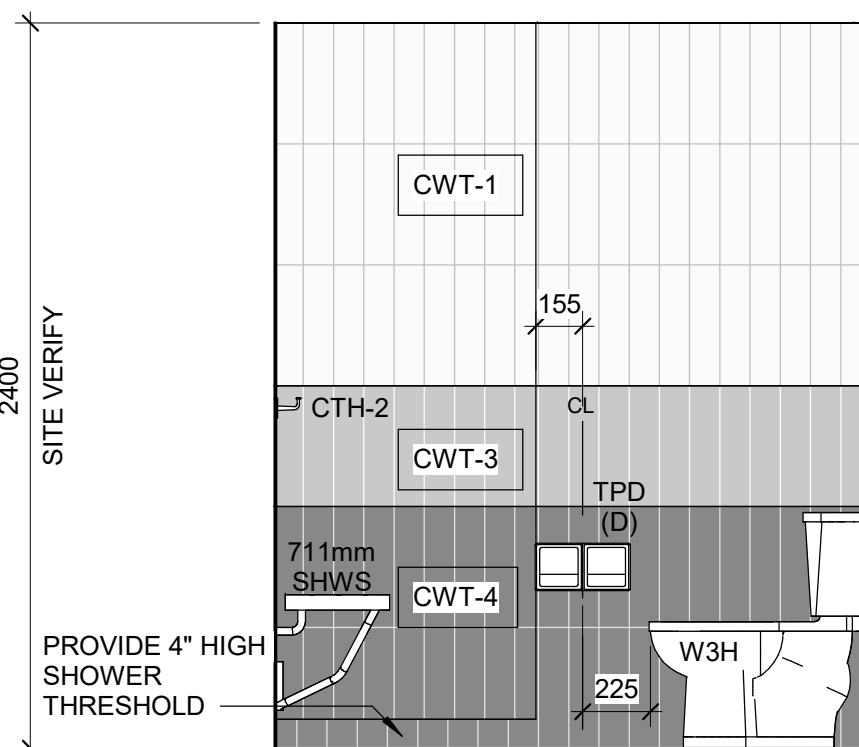
9 WASHROOM STALL 011 - WEST ELEVATION  
A5013 Scale: 1 : 25



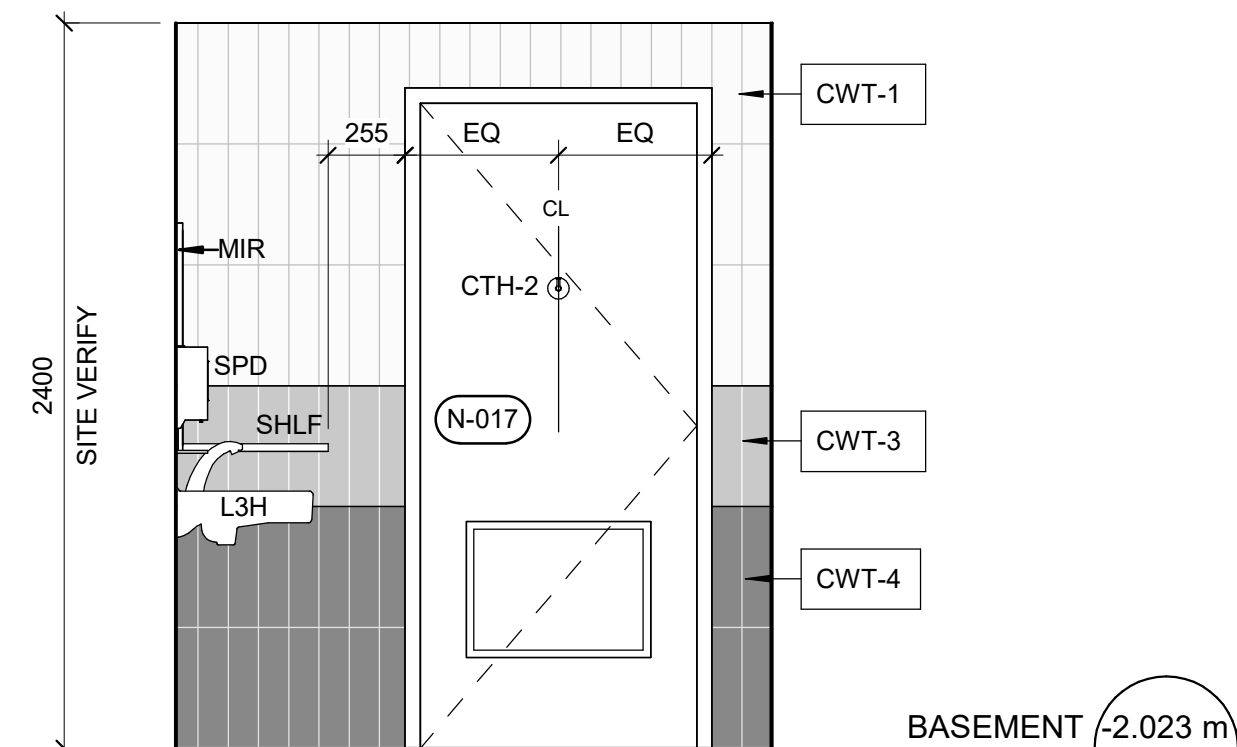
10 WASHROOM STALL 017 - NORTH ELEVATION  
A5013 Scale: 1 : 25



11 WASHROOM STALL 017 - SOUTH ELEVATION  
A5013 Scale: 1 : 25



12 WASHROOM STALL 017 - EAST ELEVATION  
A5013 Scale: 1 : 25



13 WASHROOM STALL 017 - WEST ELEVATION  
A5013 Scale: 1 : 25

#### CONSTRUCTION KEY NOTES

NO	DESCRIPTION
D	INSTALL NEW WASHROOM ACCESSORIES - REFER TO DETAILS 1/D1201, 2/D1201, 3/D1201, 4/D1201, 5/D1201.
K	INSTALL NEW DOOR AND FRAME. REFER TO DOOR SCHEDULE A9001, G0004 AND DOOR HARDWARE SCHEDULE IN THE SPECIFICATIONS.

#### WASHROOM GENERAL NOTES

1	ALL EXISTING SOAP DISPENSERS AND MIRRORS TO BE LOWERED. REFER TO 2/D1201, 4/D1201.
2	ALL WASHROOM ACCESSORIES TO BE INSTALLED AFTER SPECIFIED WALL FINISH HAS BEEN APPLIED. NEW SOAP COLLECTORS TO BE ADDED TO ALL SOAP DISPENSERS. REFER TO 2/D1201.
3	MOISTURE RESISTANT GYPSUM BOARD TO BE PROVIDED IN ALL WASHROOMS AND LOCKER ROOMS

PROVIDE 4" HIGH SHOWER THRESHOLD  
BASEMENT (-2.023 m)

PROVIDE 4" HIGH SHOWER THRESHOLD  
BASEMENT (-2.023 m)

PROVIDE 4" HIGH SHOWER THRESHOLD  
BASEMENT (-2.023 m)

PROVIDE 4" HIGH SHOWER THRESHOLD  
BASEMENT (-2.023 m)

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No.	DESCRIPTION	DATE
A	ISSUED FOR REVISED 100%	2024-04-30
B	ISSUED FOR REVISED PERMIT REV. 2	2024-06-13
C	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
D	ISSUED FOR TENDER	2025-09-08

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100 - 175 Galaxy Blvd,  
Toronto, ON M9W 0C9, Canada  
tel 416 679 1930  
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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**M. VILLALBA**

CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**E. FENUTA**

SHEET TITLE  
**BASEMENT CHANGEROOM  
WASHROOM STALLS PLANS &  
ELEVATIONS**

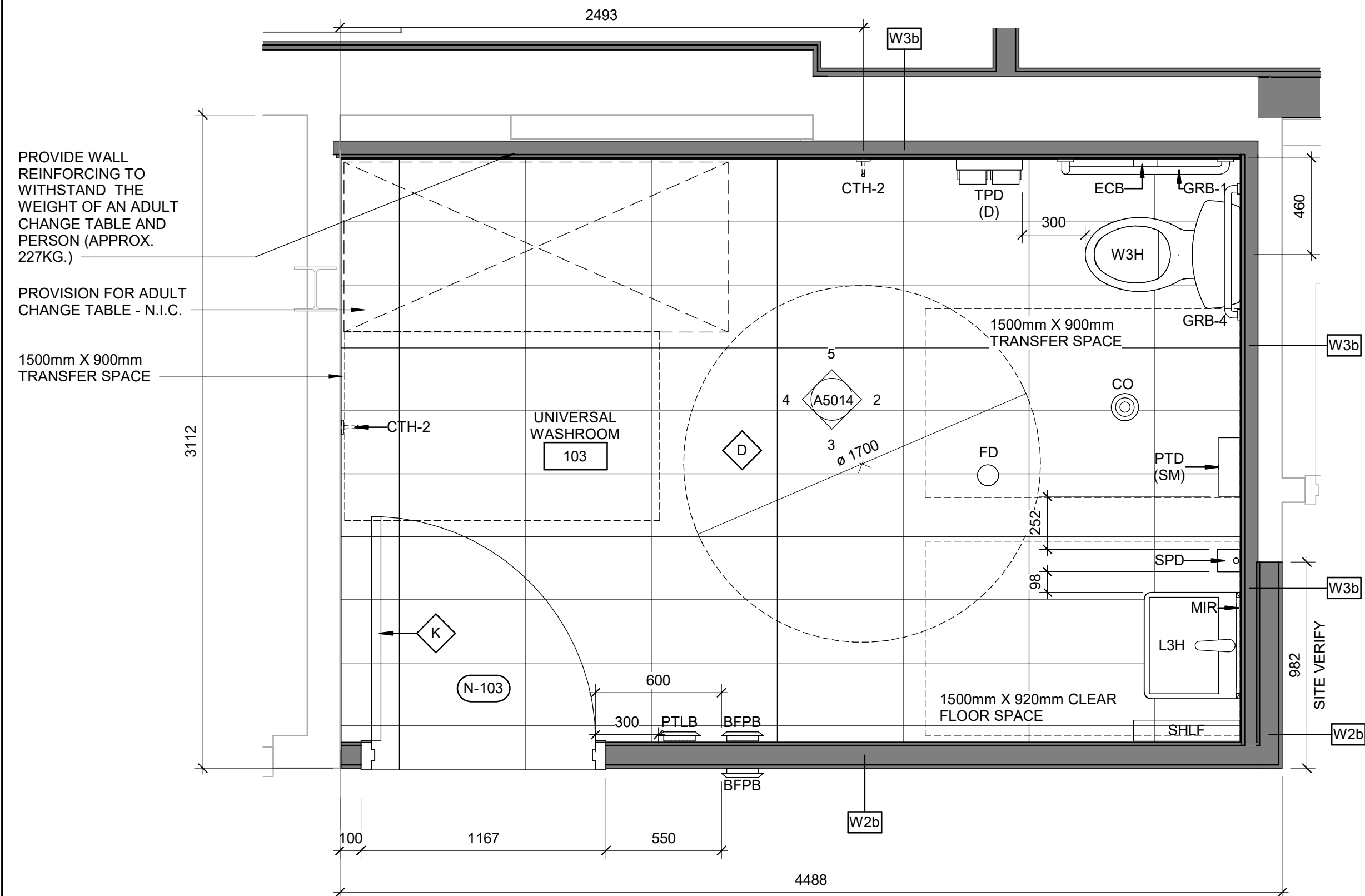
SHEET NUMBER

**G21-086-A5013**

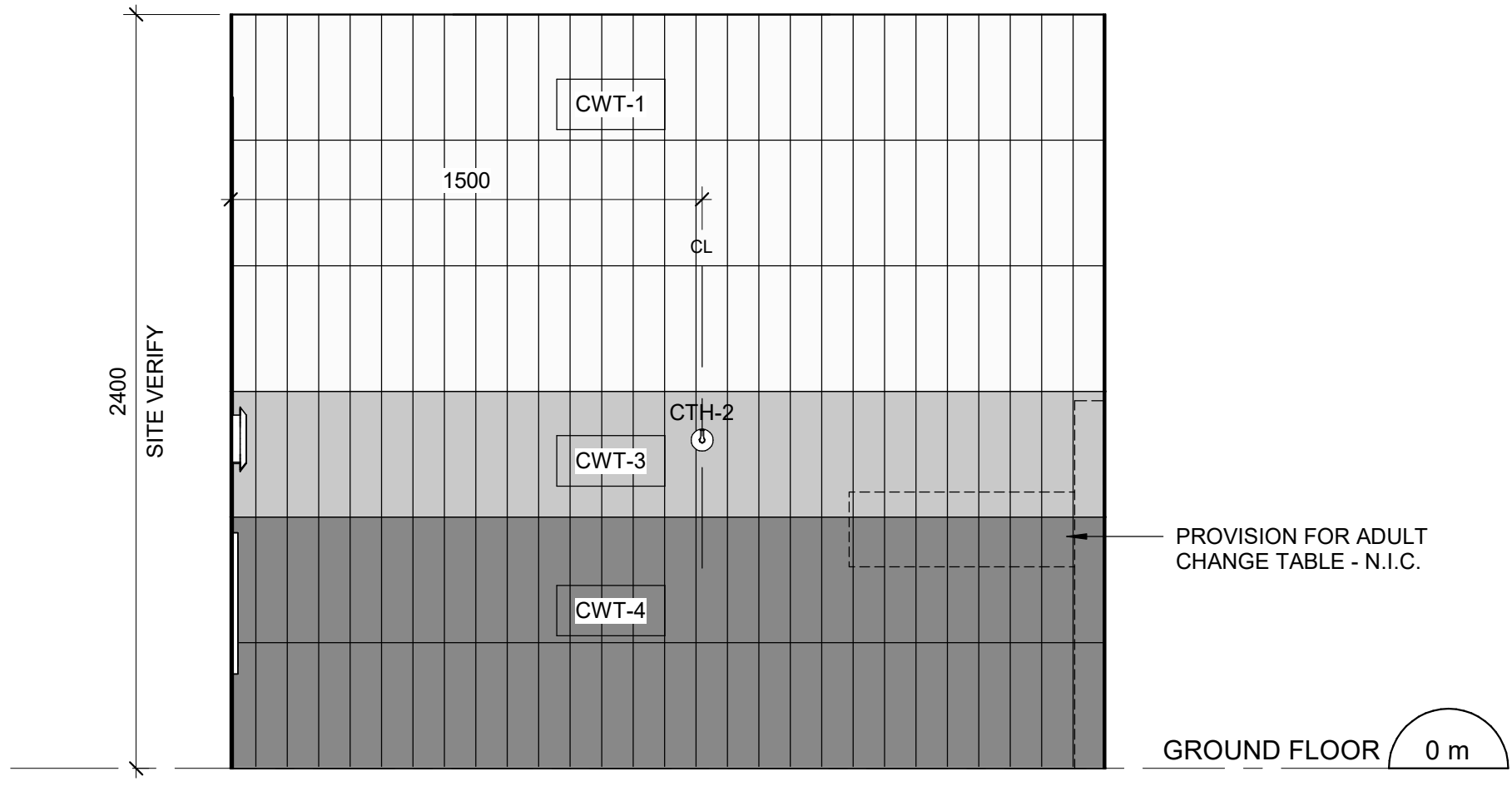
ISSUE

**D**

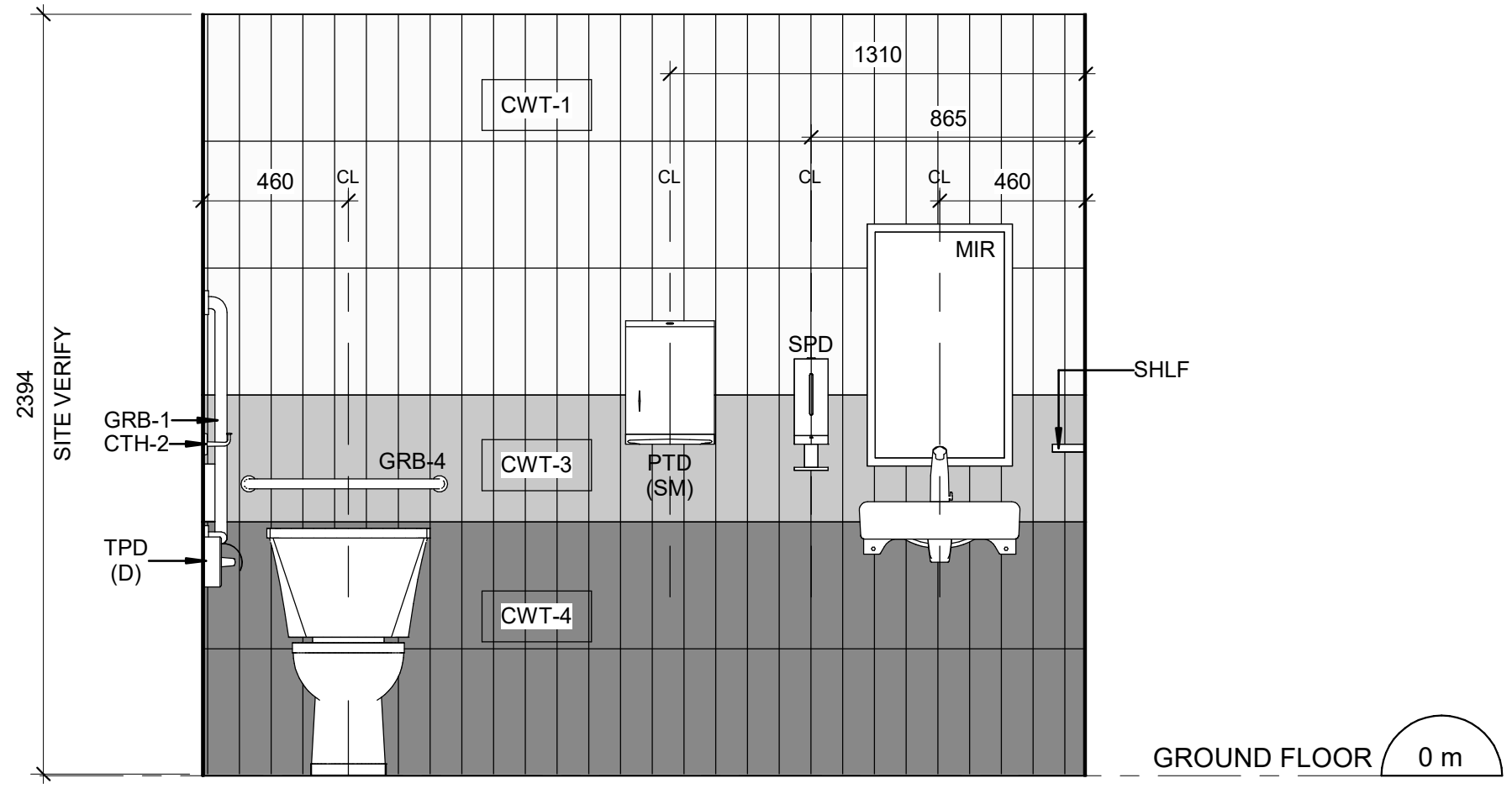




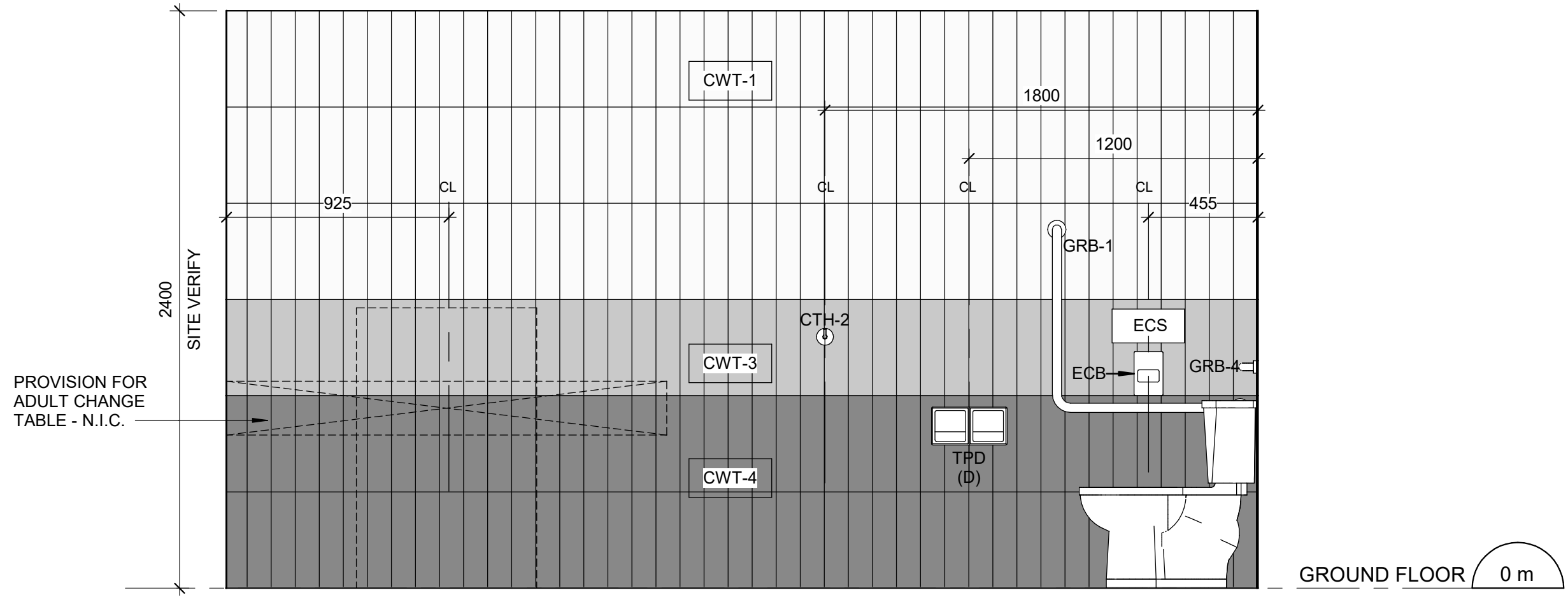
1 GROUND FLOOR - UNIVERSAL WASHROOM PLAN  
A5014 Scale: 1 : 20



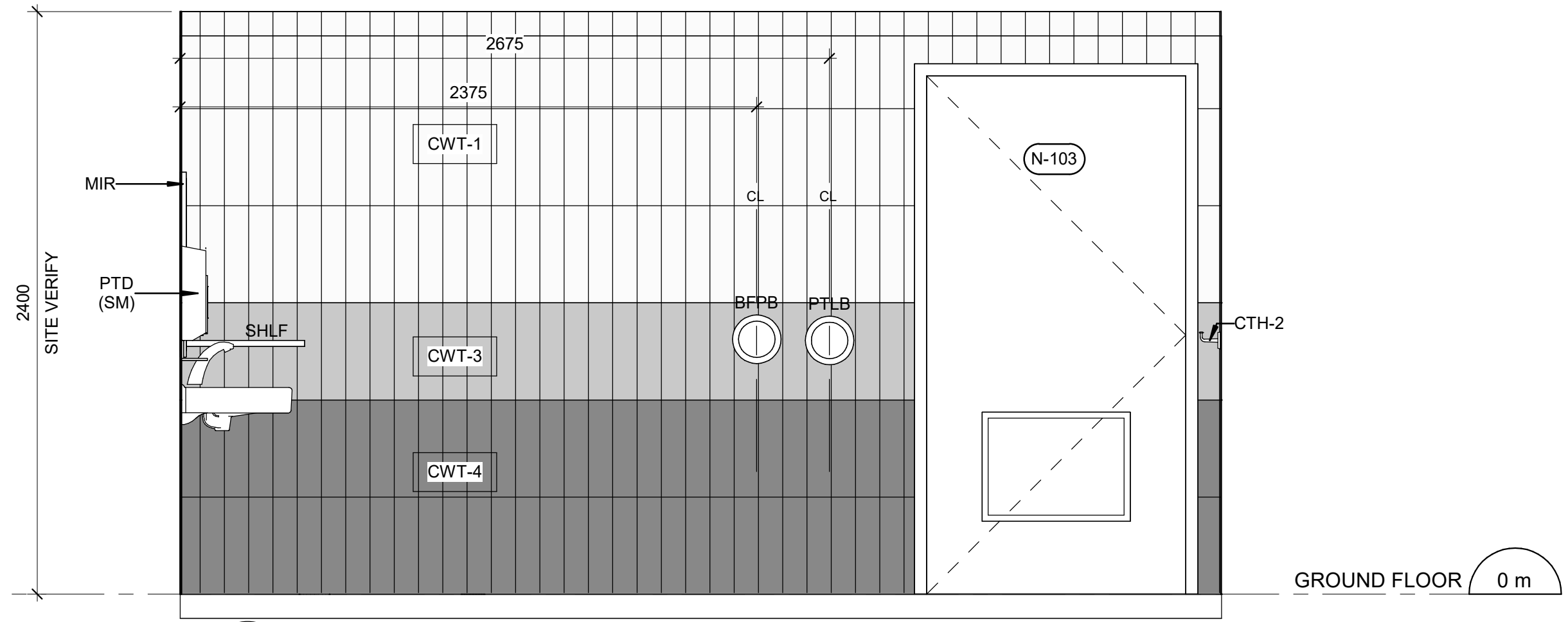
4 UNIVERSAL WASHROOM - WEST ELEVATION  
A5014 Scale: 1 : 20



2 UNIVERSAL WASHROOM - EAST ELEVATION  
A5014 Scale: 1 : 20



5 UNIVERSAL WASHROOM - NORTH ELEVATION  
A5014 Scale: 1 : 20



3 UNIVERSAL WASHROOM - SOUTH ELEVATION  
A5014 Scale: 1 : 20

CONSTRUCTION KEY NOTES	
NO	DESCRIPTION
D	INSTALL NEW WASHROOM ACCESSORIES - REFER TO DETAILS 1/D1201, 2/D1201, 3/D1201, 4/D1201, 5/D1201.
K	INSTALL NEW DOOR AND FRAME. REFER TO DOOR SCHEDULE A9001, G0004 AND DOOR HARDWARE SCHEDULE IN THE SPECIFICATIONS.

WASHROOM GENERAL NOTES	
1	ALL EXISTING SOAP DISPENSERS AND MIRRORS TO BE LOWERED. REFER TO 2/D1201, 4/D1201.
2	ALL WASHROOM ACCESSORIES TO BE INSTALLED AFTER SPECIFIED WALL FINISH HAS BEEN APPLIED. NEW SOAP COLLECTORS TO BE ADDED TO ALL SOAP DISPENSERS. REFER TO 2/D1201.
3	MOISTURE RESISTANT GYPSUM BOARD TO BE PROVIDED IN ALL WASHROOMS AND LOCKER ROOMS

UNIVERSAL WASHROOM GENERAL NOTES	
1	PROVIDE WALL REINFORCEMENT TO SUPPORT FUTURE ADULT CHANGE TABLE MINIMUM LOAD OF 1.33 KN AND POWER OUTLET

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ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2023-02-17
E	ISSUED FOR REVISED PERMIT/100%	2023-08-31
F	ISSUED FOR REVISED 100%	2024-04-30
G	ISSUED FOR REVISED PERMIT REV. 2	2024-06-13
H	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
I	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE

**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

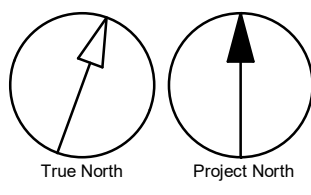
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

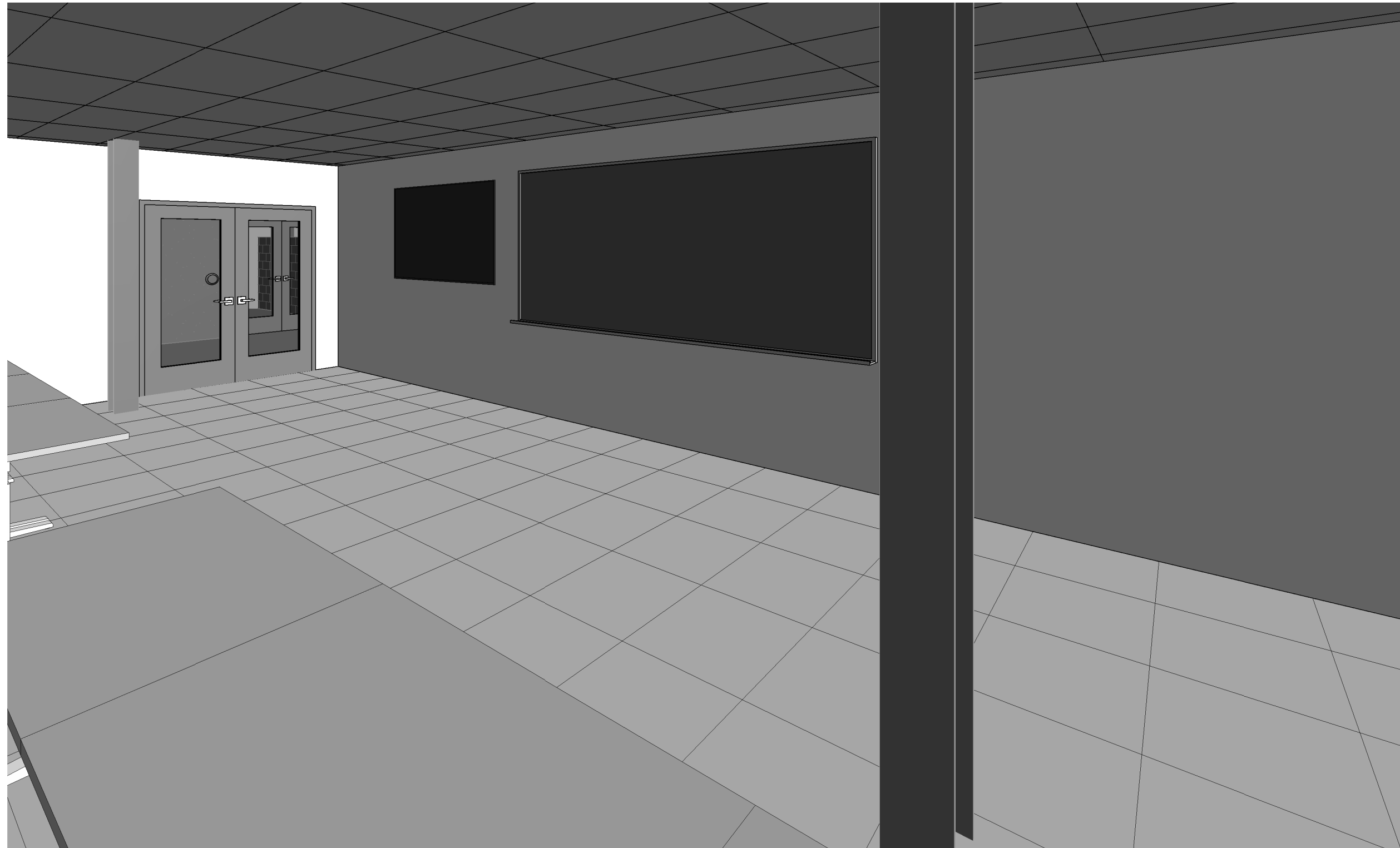
PROJECT NO: 9119-19-0162 / IBI 122260	CHECKED BY: L. BANDIERA
DRAWN BY: A. KVASNIUK / M. V.	APPROVED BY: E. FENUTA
PROJECT MGR: F. BOLOURIAN	

SHEET TITLE

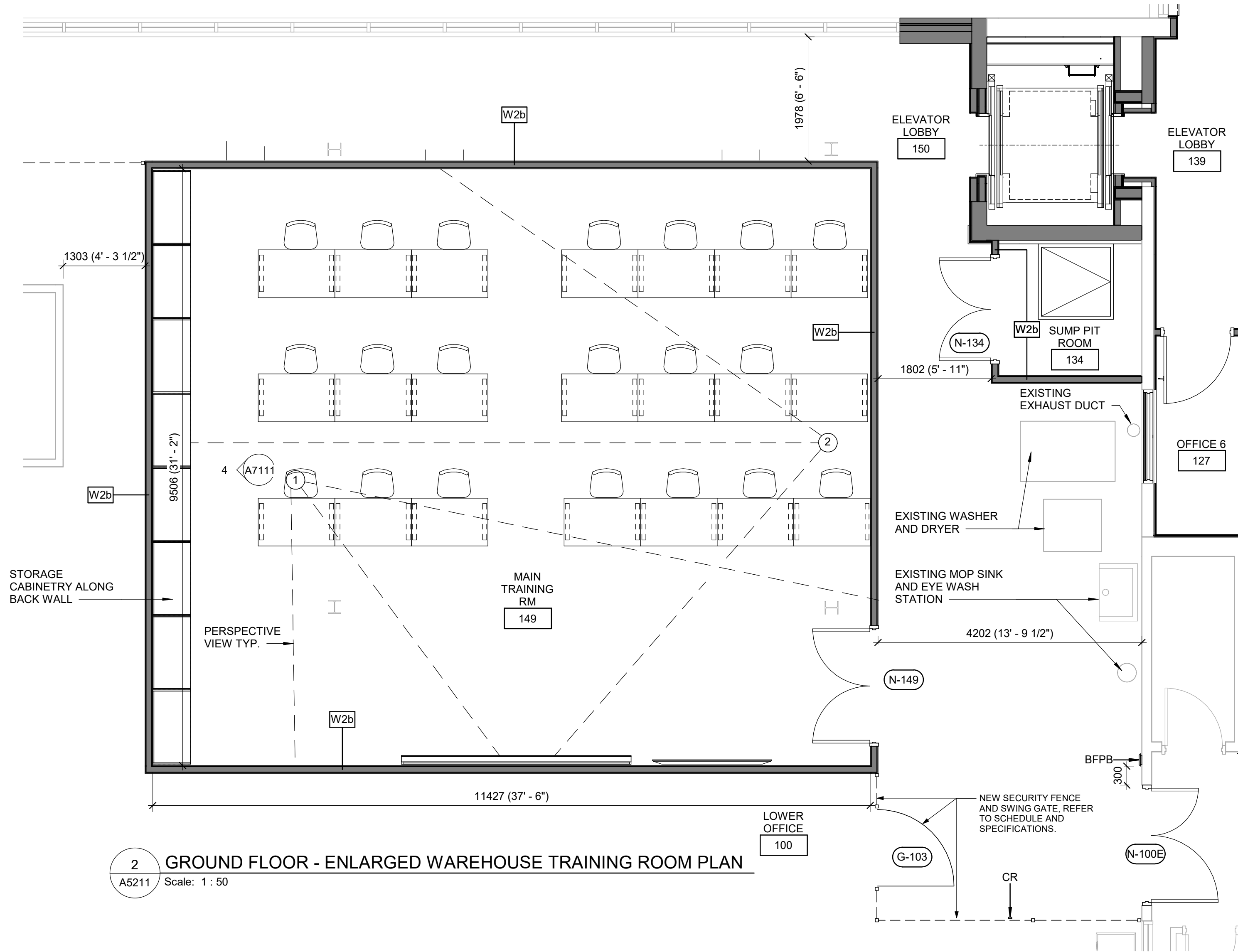
**GROUND FLOOR  
UNIVERSAL WASHROOM  
PLAN/ ELEVATIONS**

SHEET NUMBER	ISSUE
<b>G21-086-A5014</b>	<b>I</b>

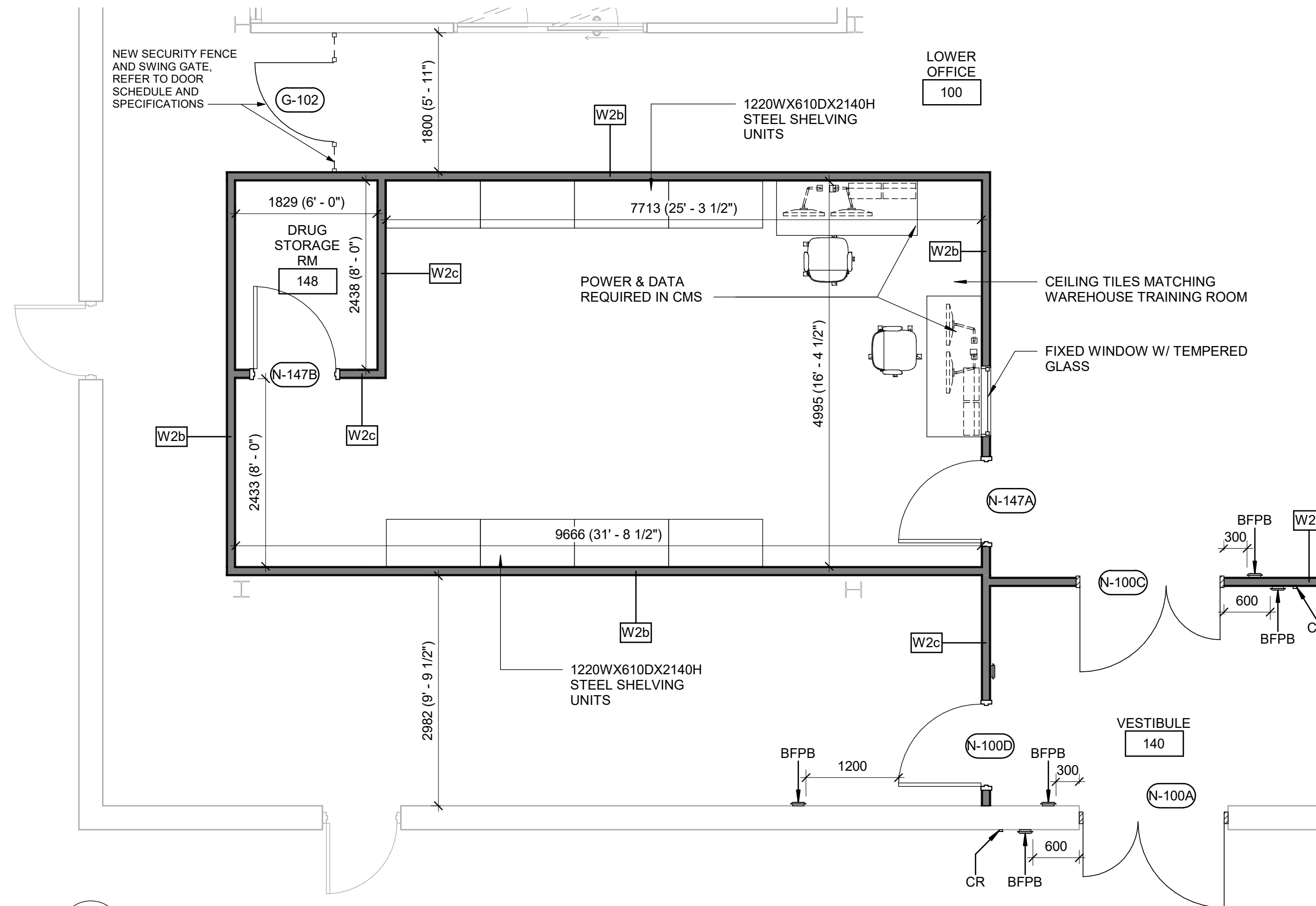




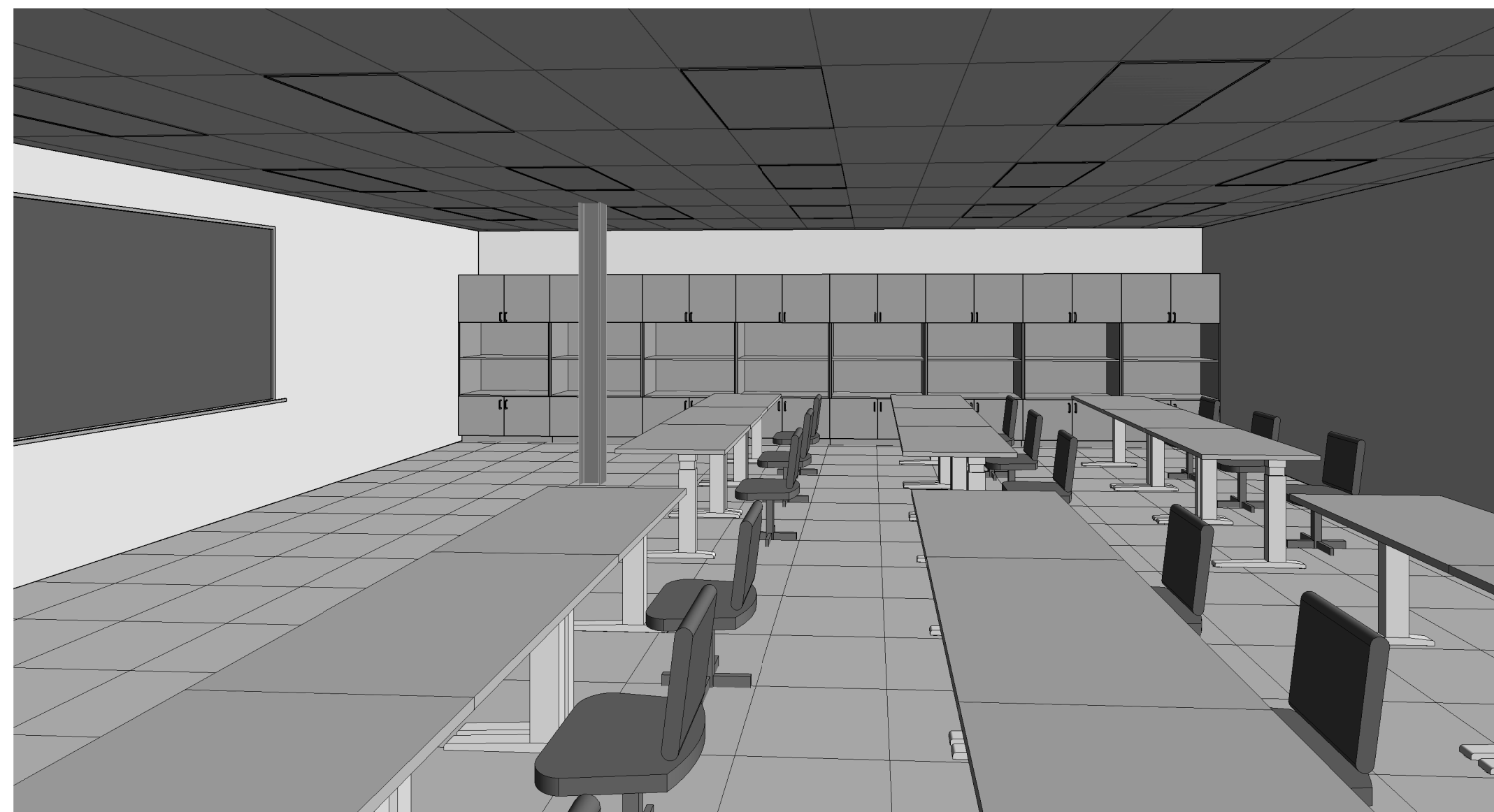
3 WAREHOUSE TRAINING ROOM PERSPECTIVE VIEW 1  
A5211 Scale:



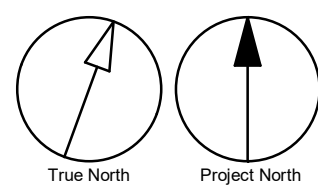
2 GROUND FLOOR - ENLARGED WAREHOUSE TRAINING ROOM PLAN  
A5211 Scale: 1 : 50



1 GROUND FLOOR - ENLARGED CENTRAL MEDICATION STORAGE ROOM PLAN  
A5211 Scale: 1 : 50



4 WAREHOUSE TRAINING ROOM PERSPECTIVE VIEW 2  
A5211 Scale:



ISSUES		
No.	DESCRIPTION	DATE
A	PERMIT REVISION/100%	2024-03-25
B	ISSUED FOR REVISED 100%	2024-04-30
C	ISSUED FOR REVISED PERMIT REV. 2	2024-06-13
D	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
E	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

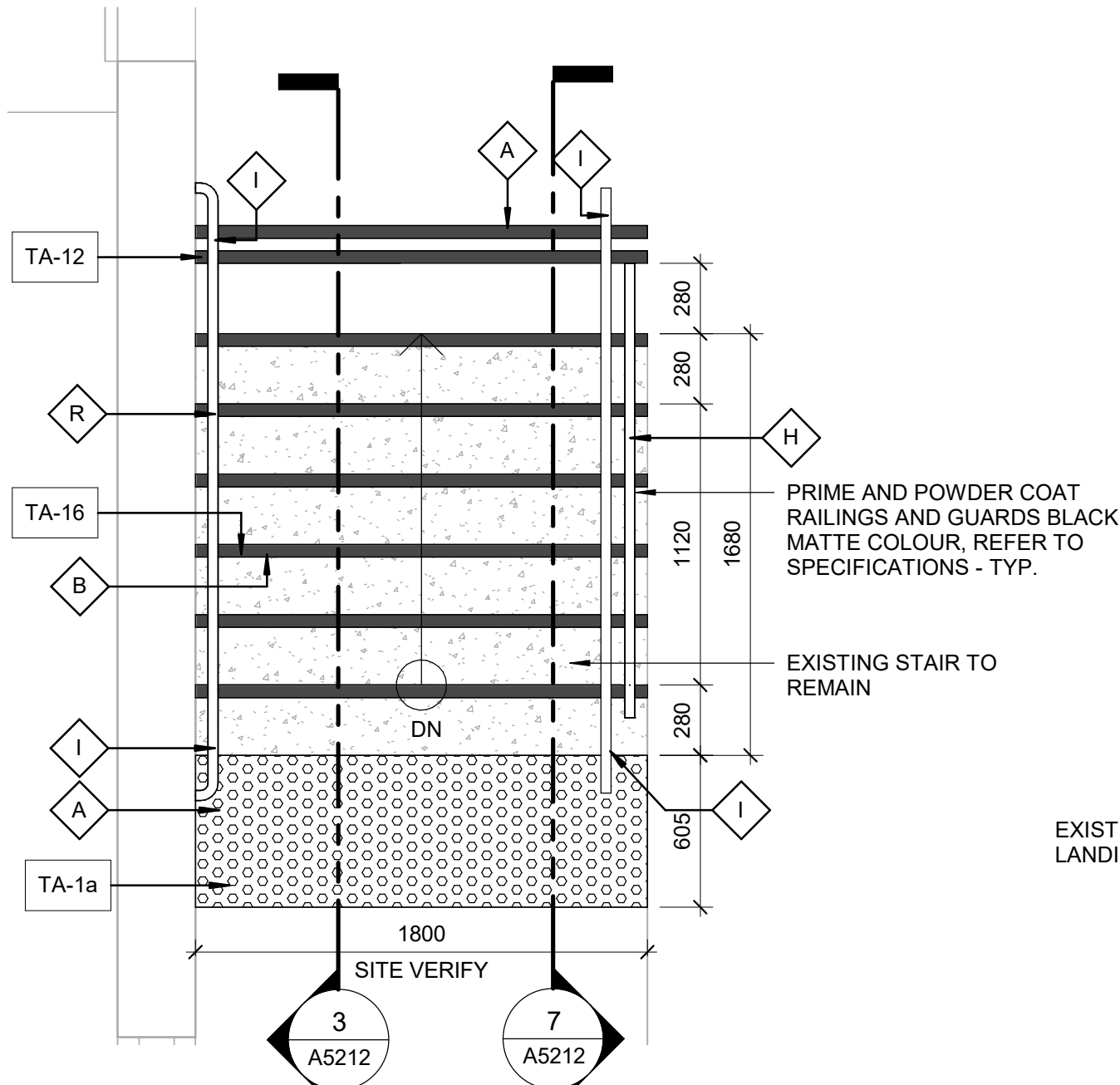
PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY: <b>A. KVASNIUK</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

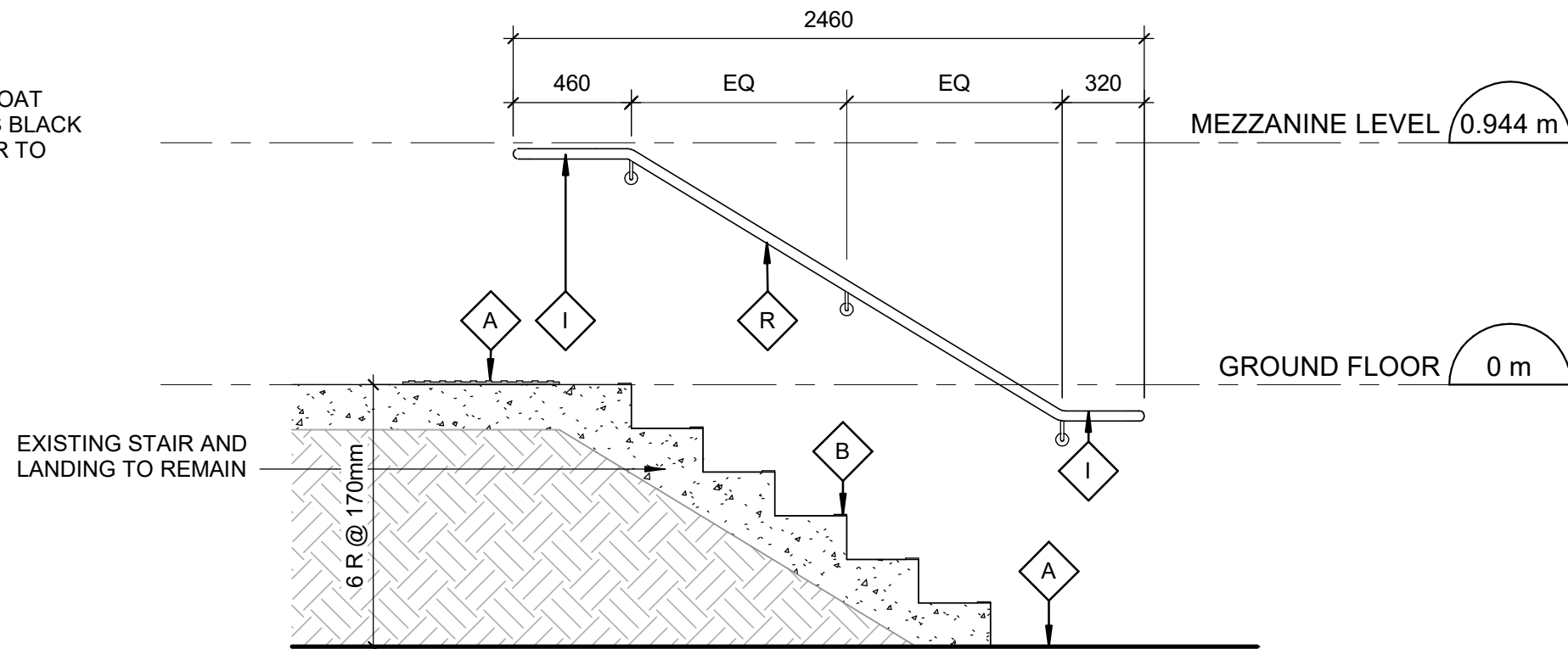
SHEET TITLE  
**TRAINING AND CENTRAL  
MEDICATION STORAGE  
ENLARGED PLANS**

SHEET NUMBER <b>G21-086-A5211</b>	ISSUE <b>E</b>
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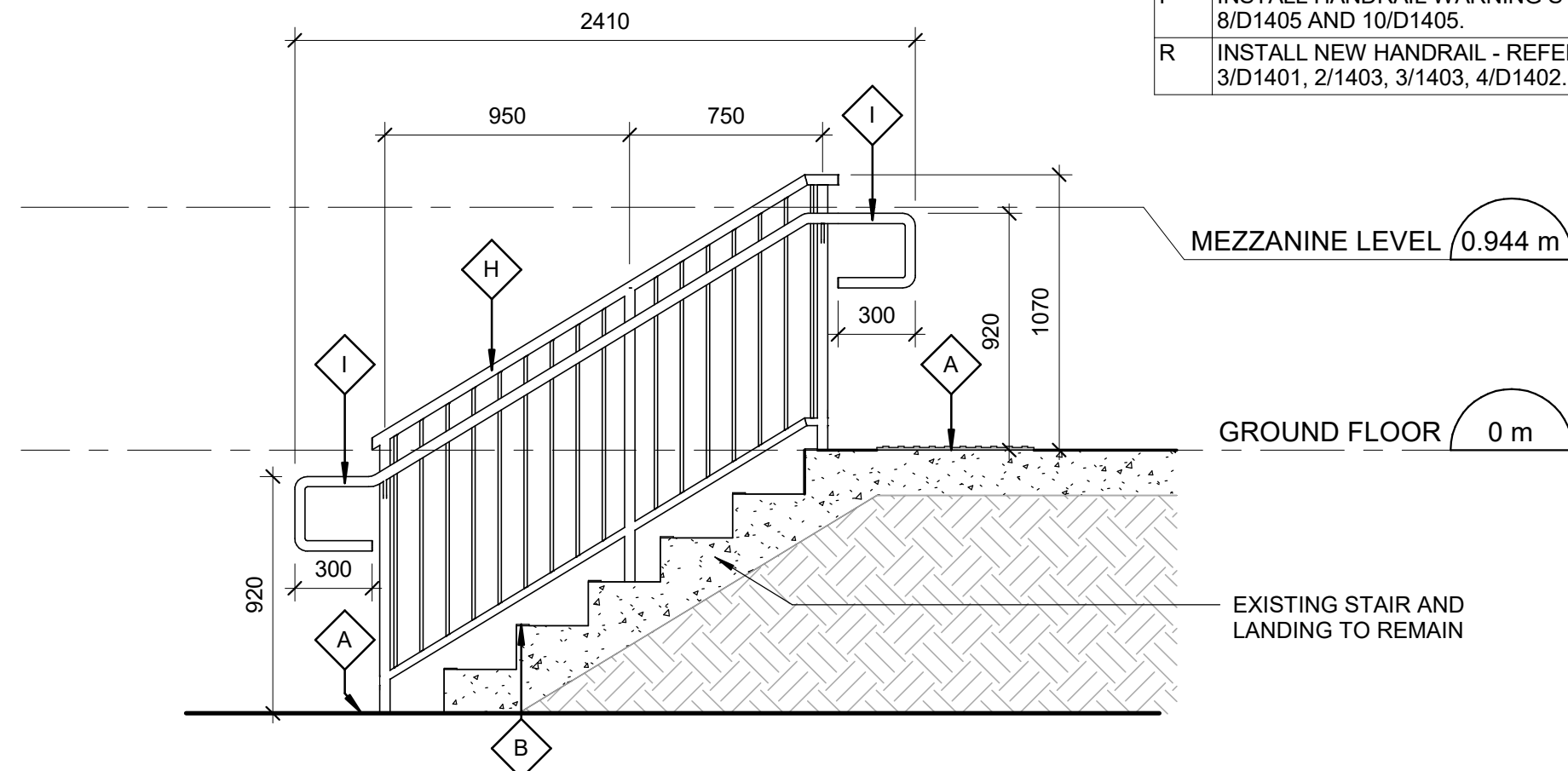




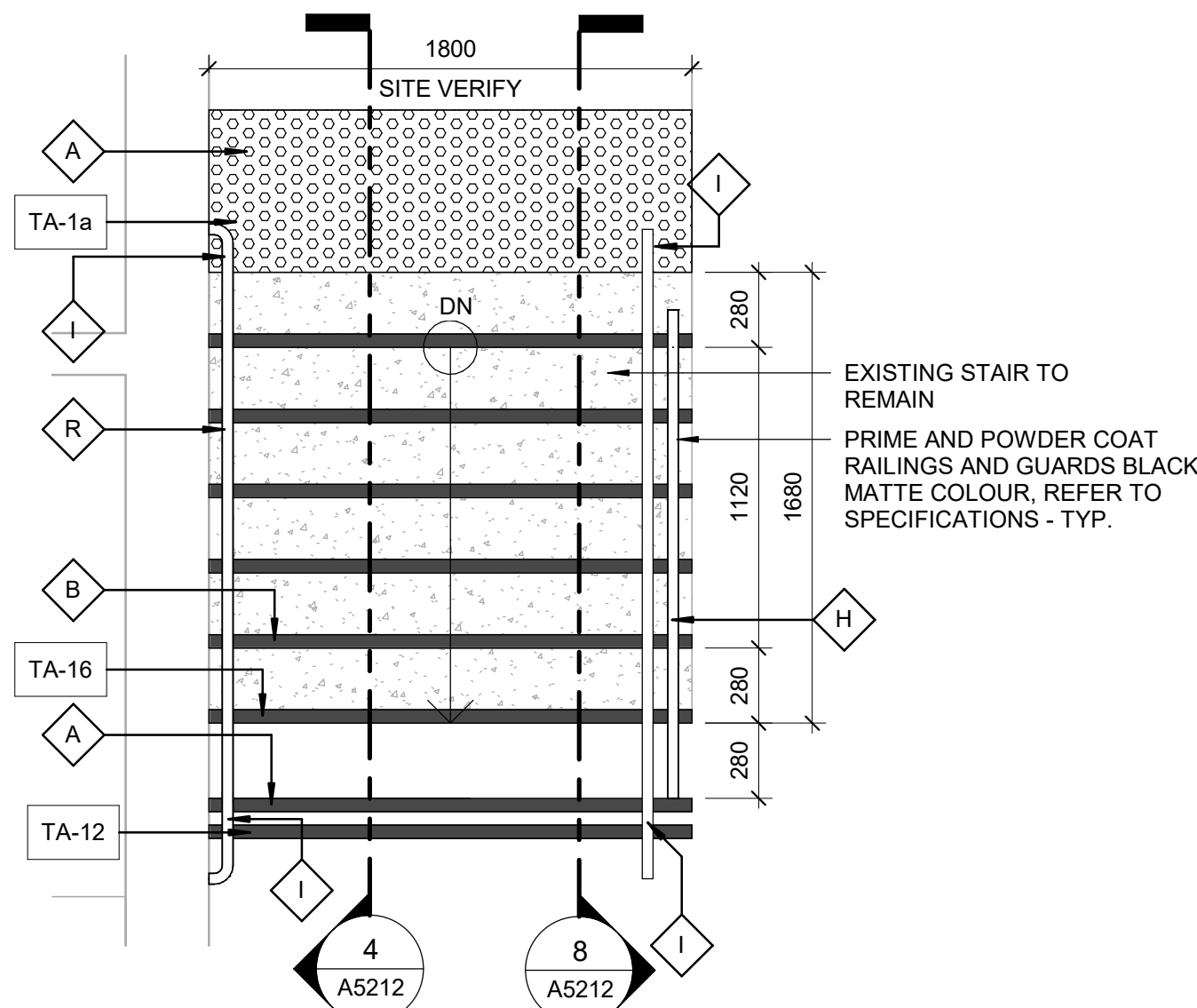
1 EXTERIOR STAIR A - ENLARGED PLAN  
A5212 Scale: 1 : 25



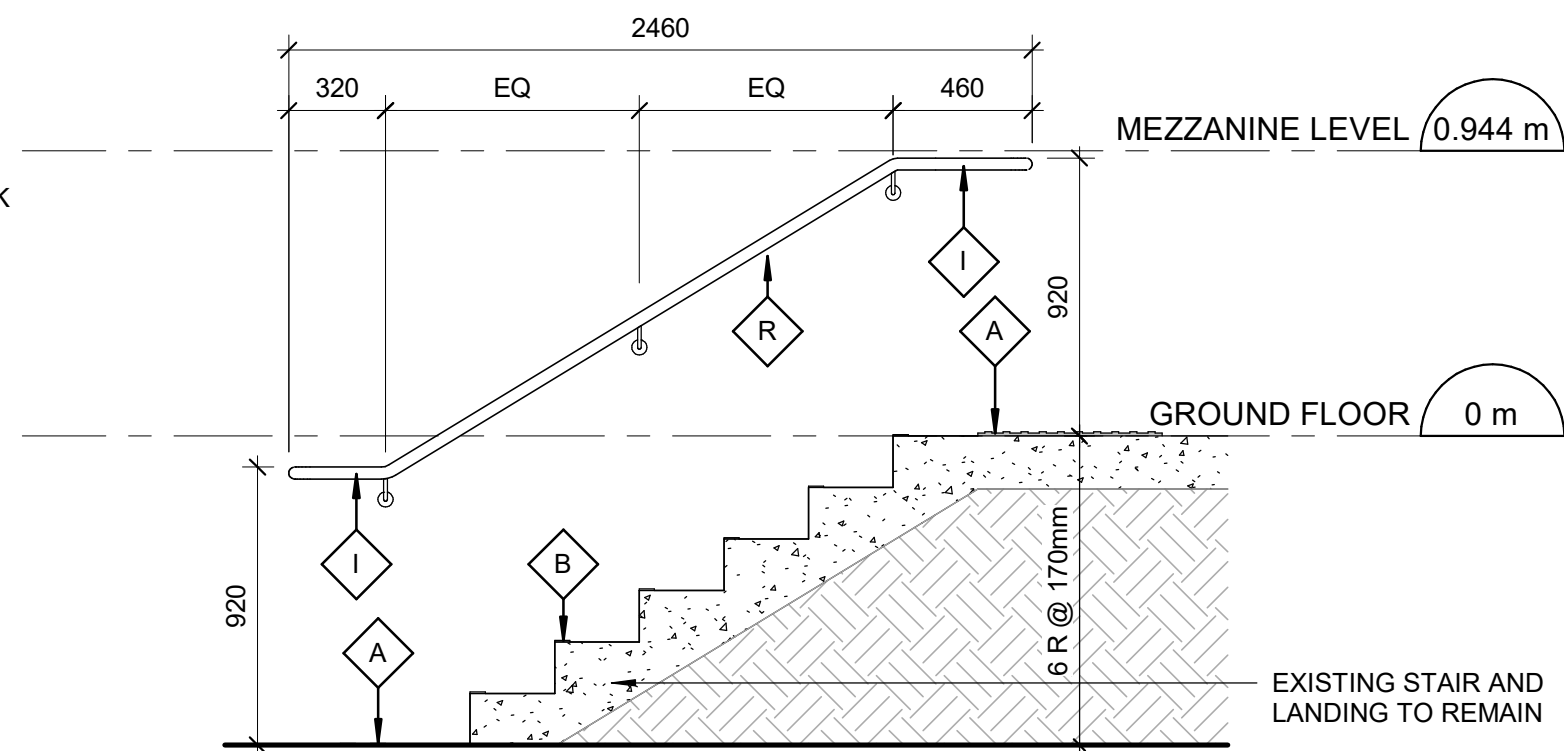
3 EXTERIOR STAIR A - SECTION 1  
A5212 Scale: 1 : 25



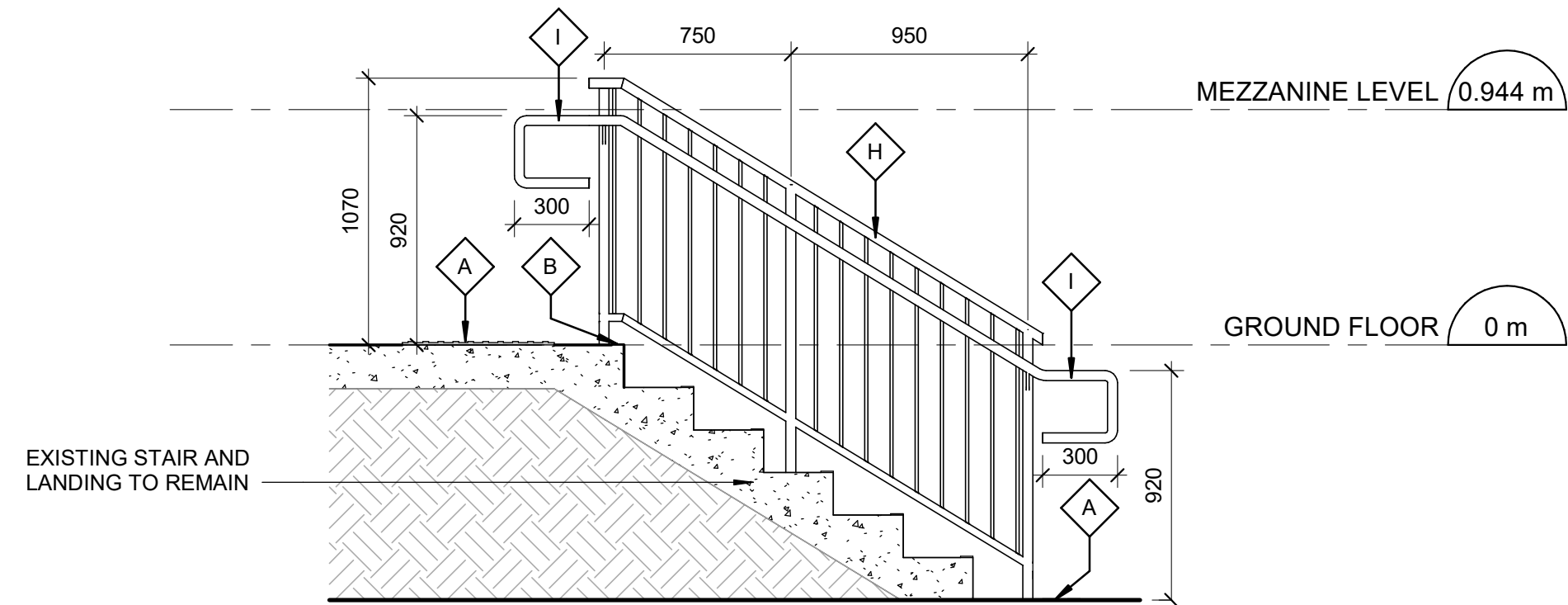
7 EXTERIOR STAIR A - SECTION 2  
A5212 Scale: 1 : 25



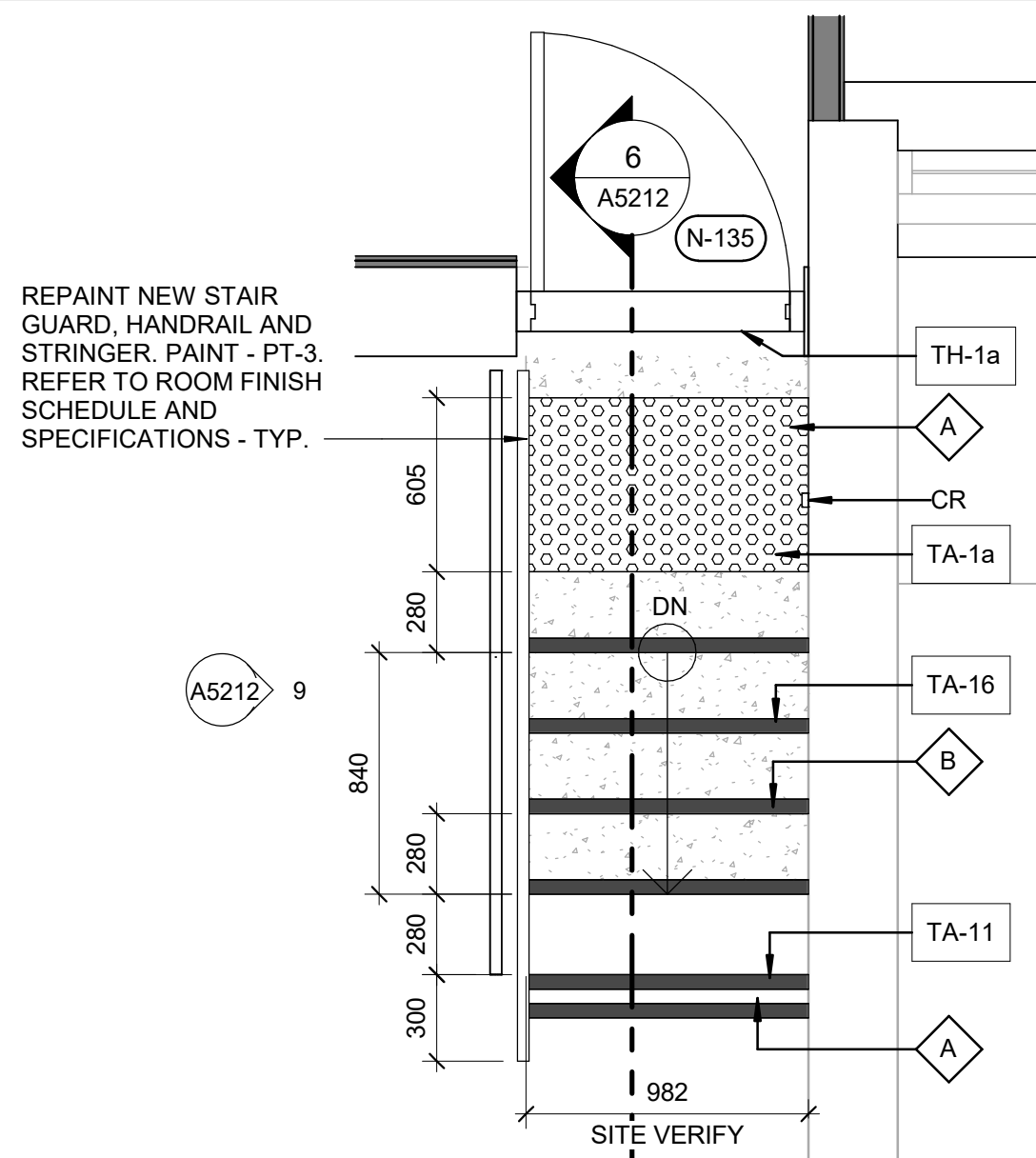
2 EXTERIOR STAIR B - ENLARGED PLAN  
A5212 Scale: 1 : 25



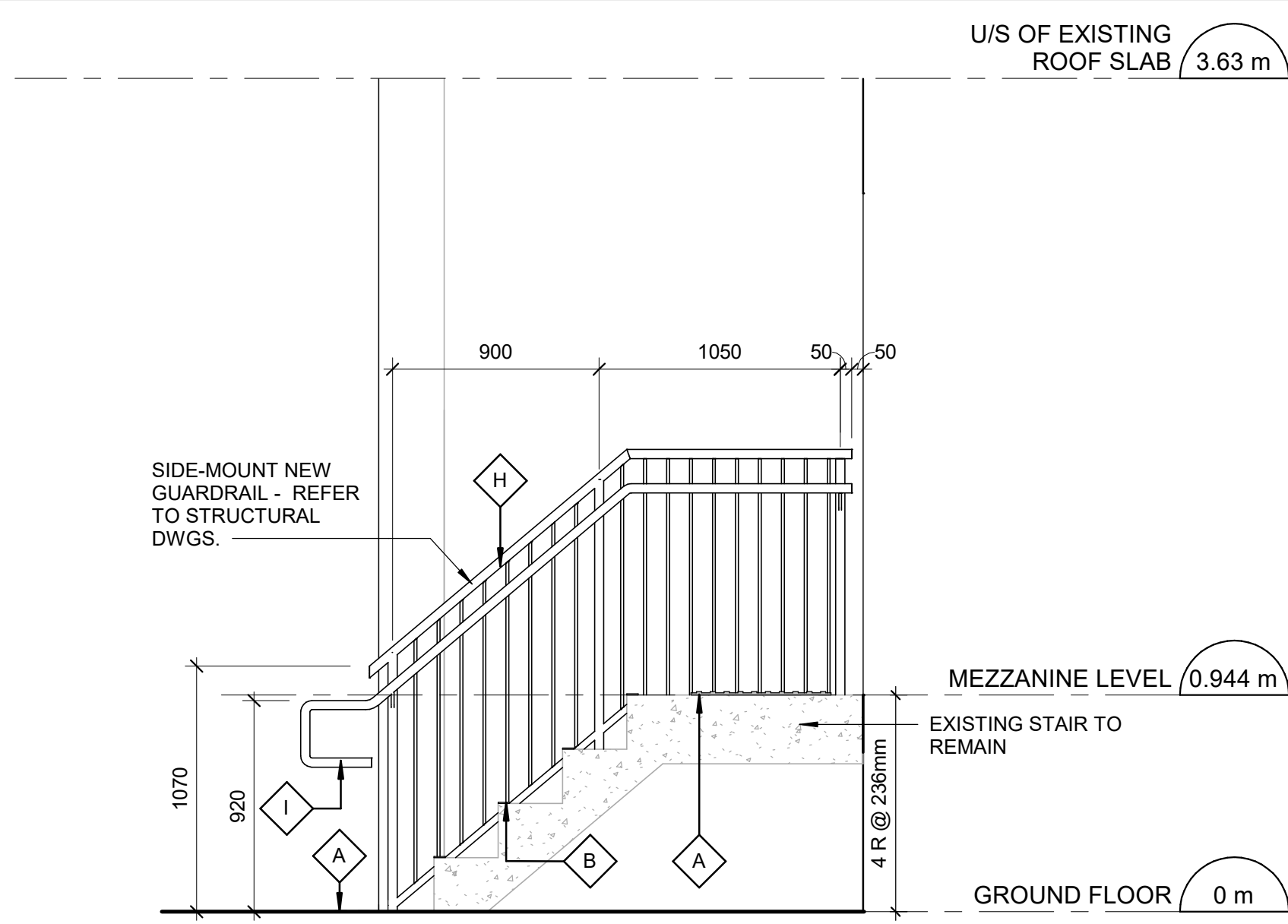
4 EXTERIOR STAIR B - SECTION 1  
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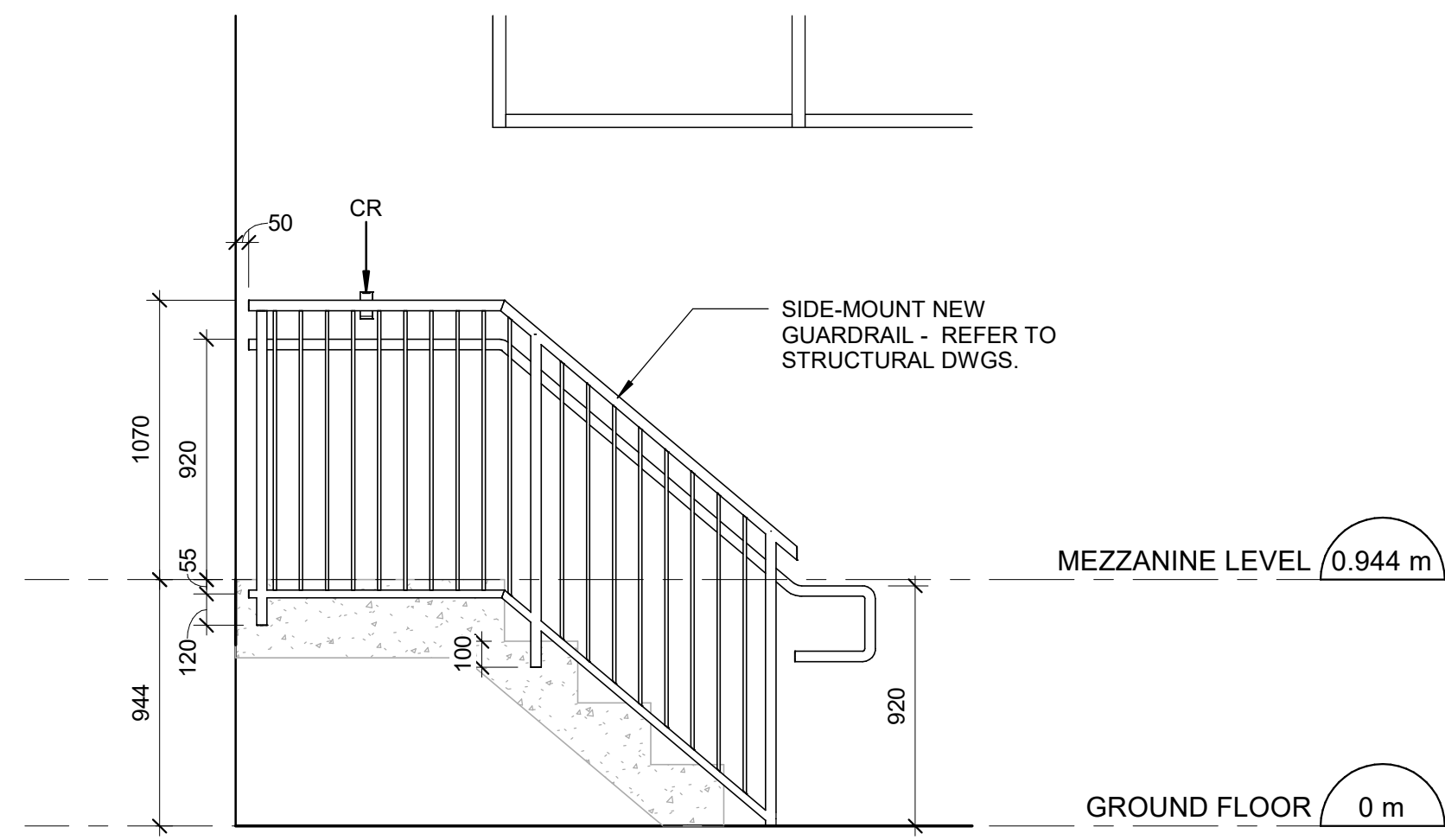
8 EXTERIOR STAIR B - SECTION 2  
A5212 Scale: 1 : 25



5 INTERIOR STAIR B - ENLARGED PLAN  
A5212 Scale: 1 : 25



6 INTERIOR STAIR B - SECTION 1  
A5212 Scale: 1 : 25



9 INTERIOR STAIR B - ELEVATION 1  
A5212 Scale: 1 : 25

#### CONSTRUCTION KEY NOTES

NO	DESCRIPTION
A	INSTALL TACTILE ATTENTION INDICATOR AND TACTILE WARNING STRIP - REFER TO TYPICAL DETAILS 1/D1402 AND 1/D1405.
B	INSTALL COLOUR AND TEXTURE NOSING STRIP - REFER TO TYPICAL DETAIL 1/D1402.
H	INSTALL NEW GUARDRAIL AND HANDRAIL ON CONCRETE STAIR - REFER TO TYPICAL DETAILS 2/D1402.
I	INSTALL HANDRAIL WARNING STRIP - REFER TO DETAIL 8/D1405 AND 10/D1405.
R	INSTALL NEW HANDRAIL - REFER TO DETAILS 1/D1401, 3/D1401, 2/1403, 3/1403, 4/D1402.

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**A. KVASNIUK**

CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIA**

APPROVED BY:  
**E. FENUTA**

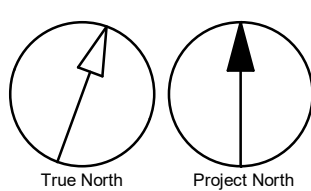
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**STAIR PLANS AND  
ELEVATIONS**

SHEET NUMBER

**G21-086-A5212**

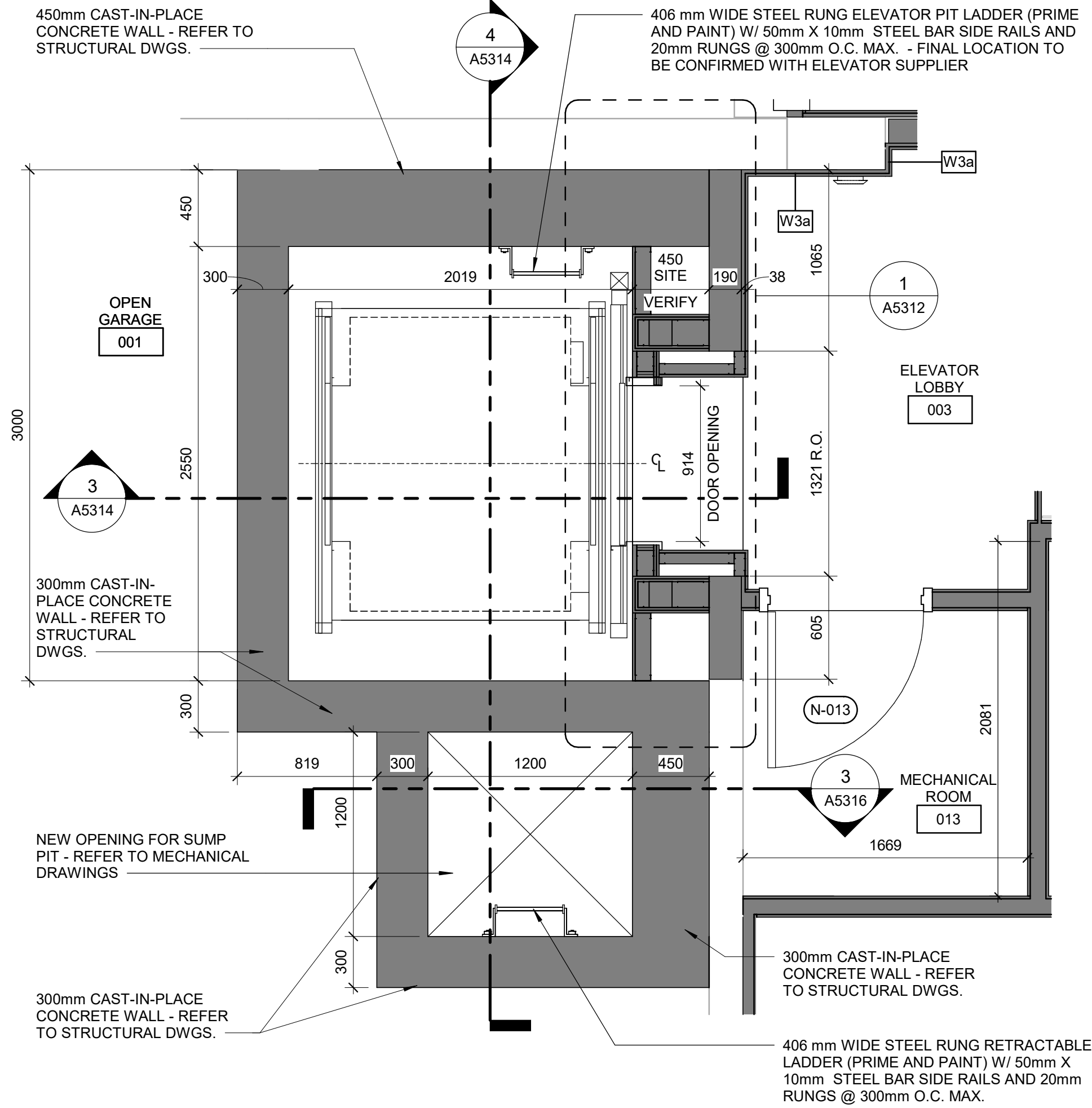
ISSUE

**I**

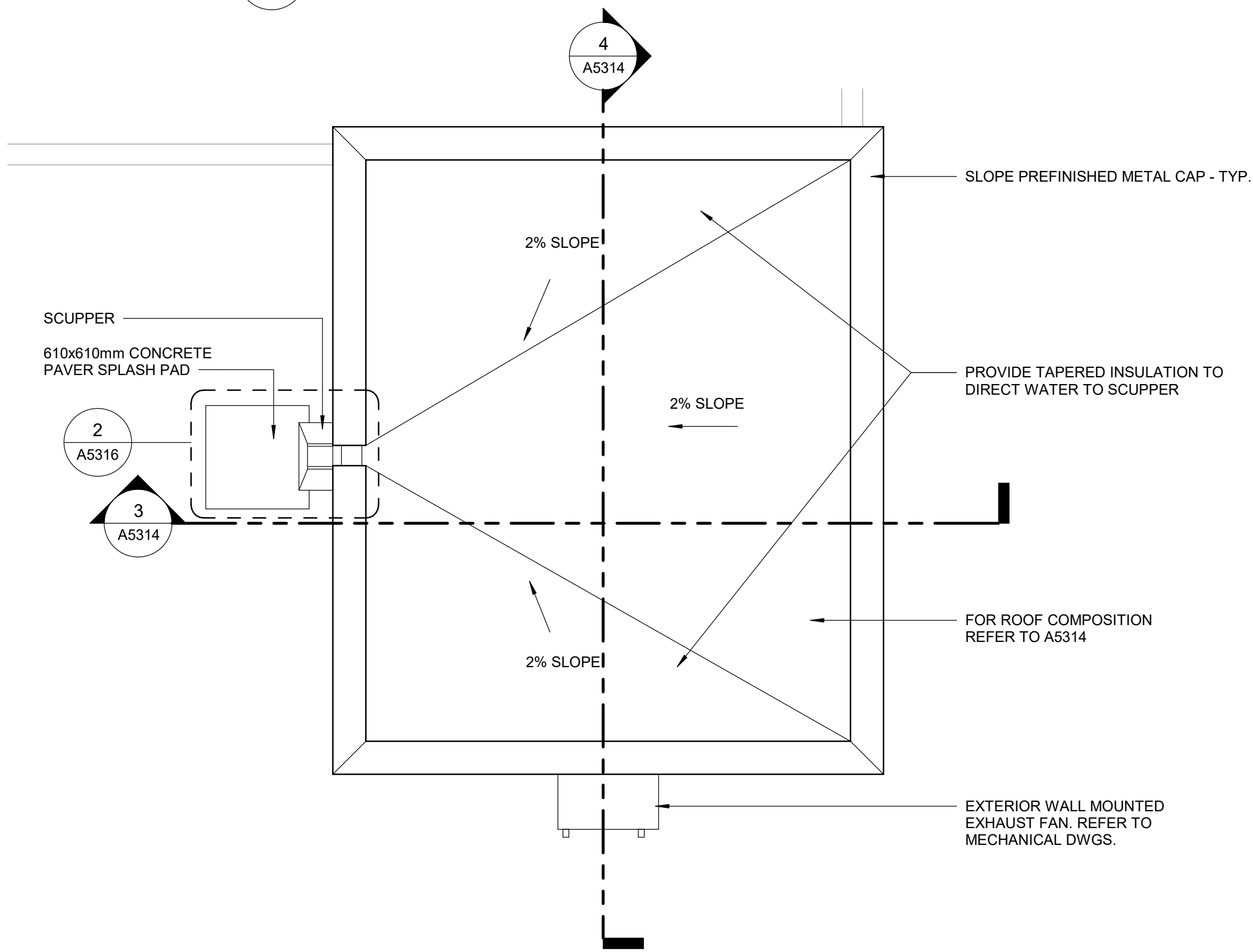




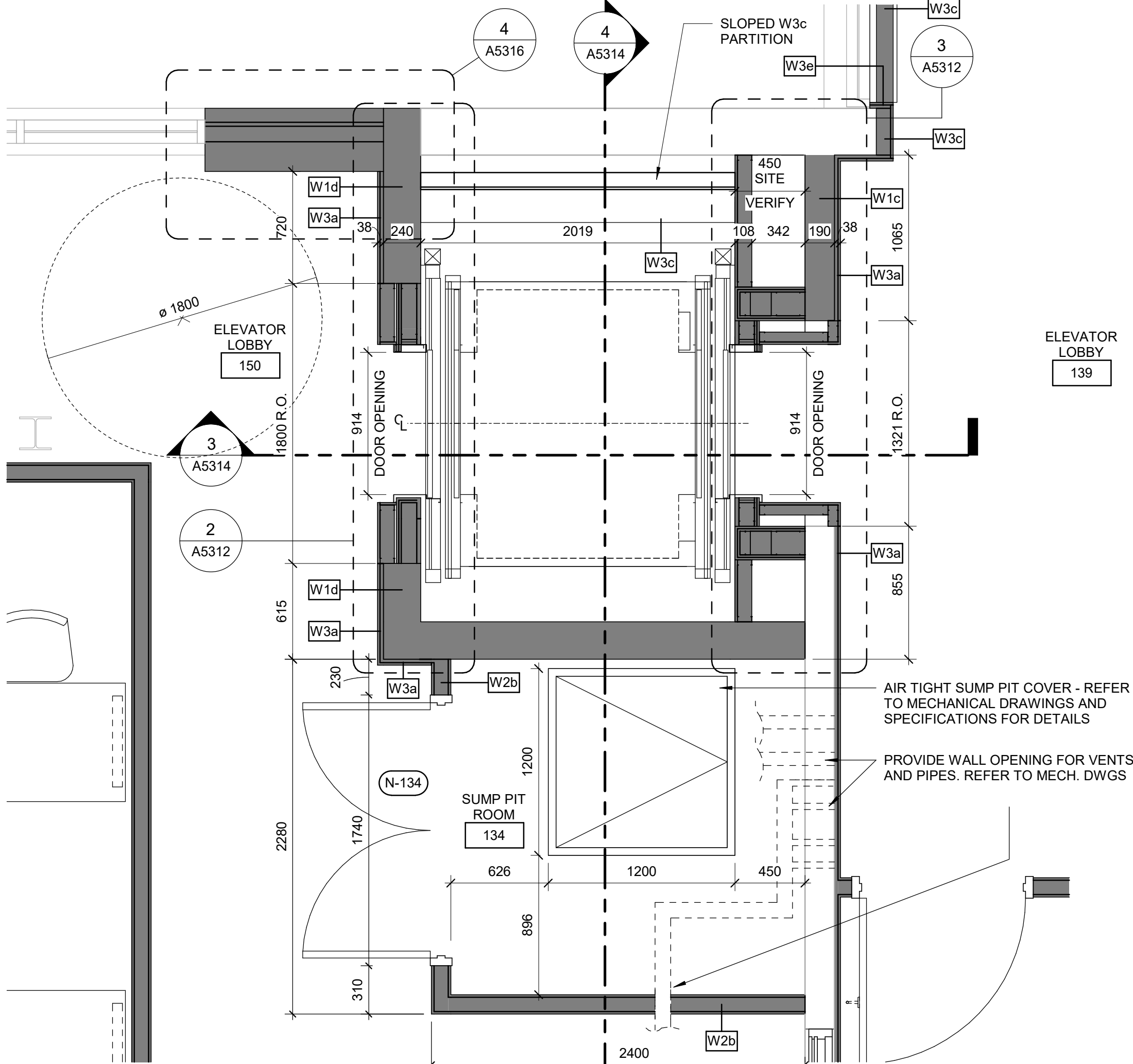


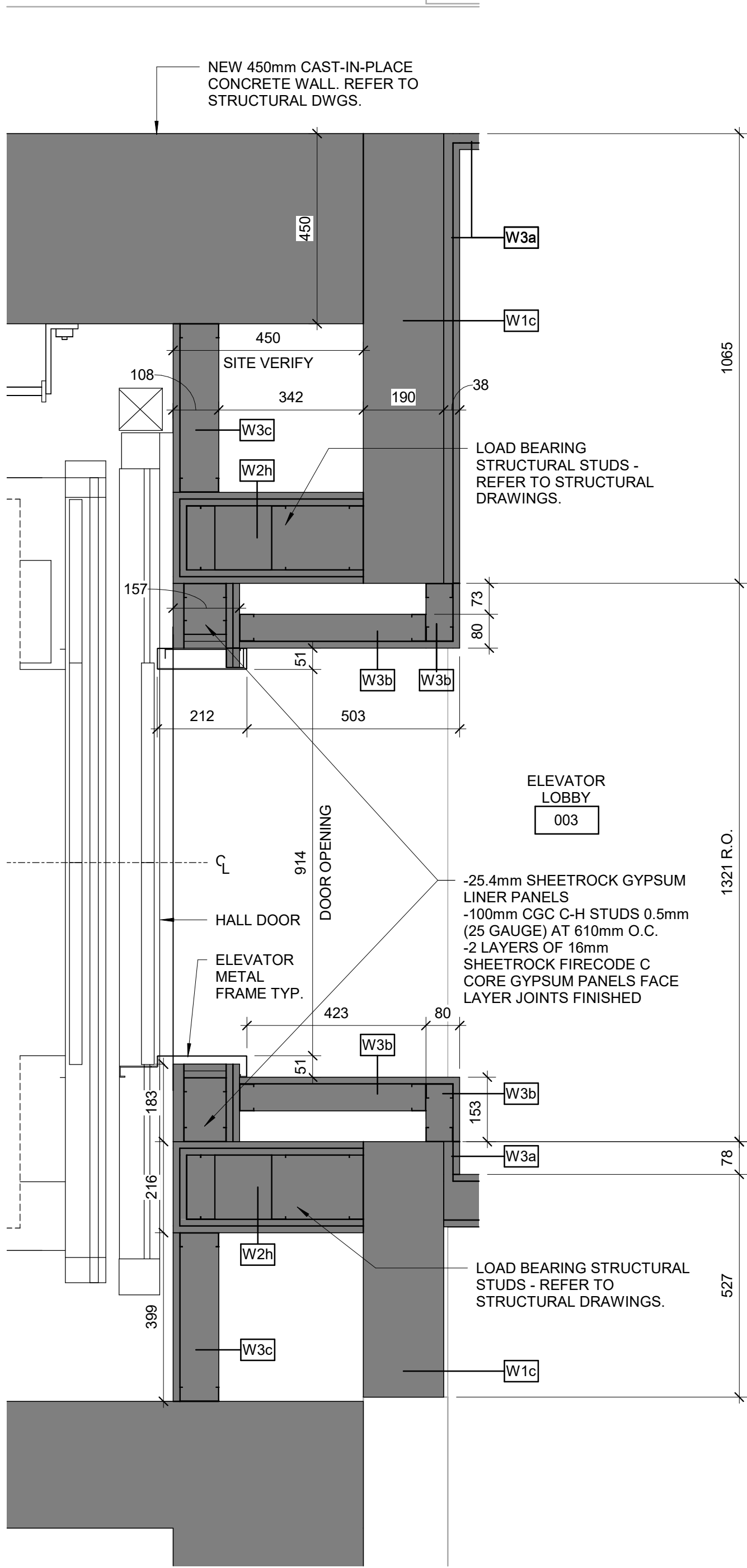


1 BASEMENT - ELEVATOR  
Scale: 1 : 25

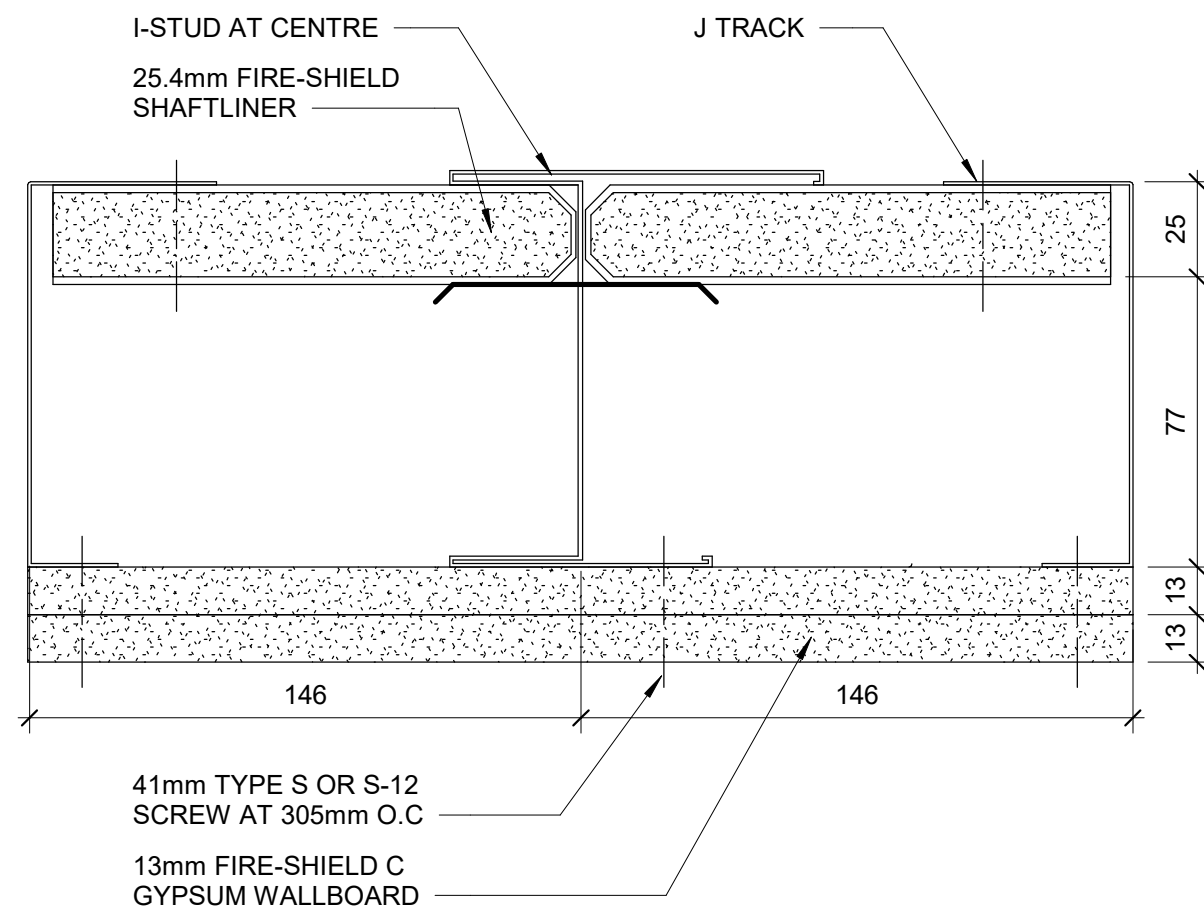


4 ROOF PLAN - ELEVATOR  
Scale: 1 : 25

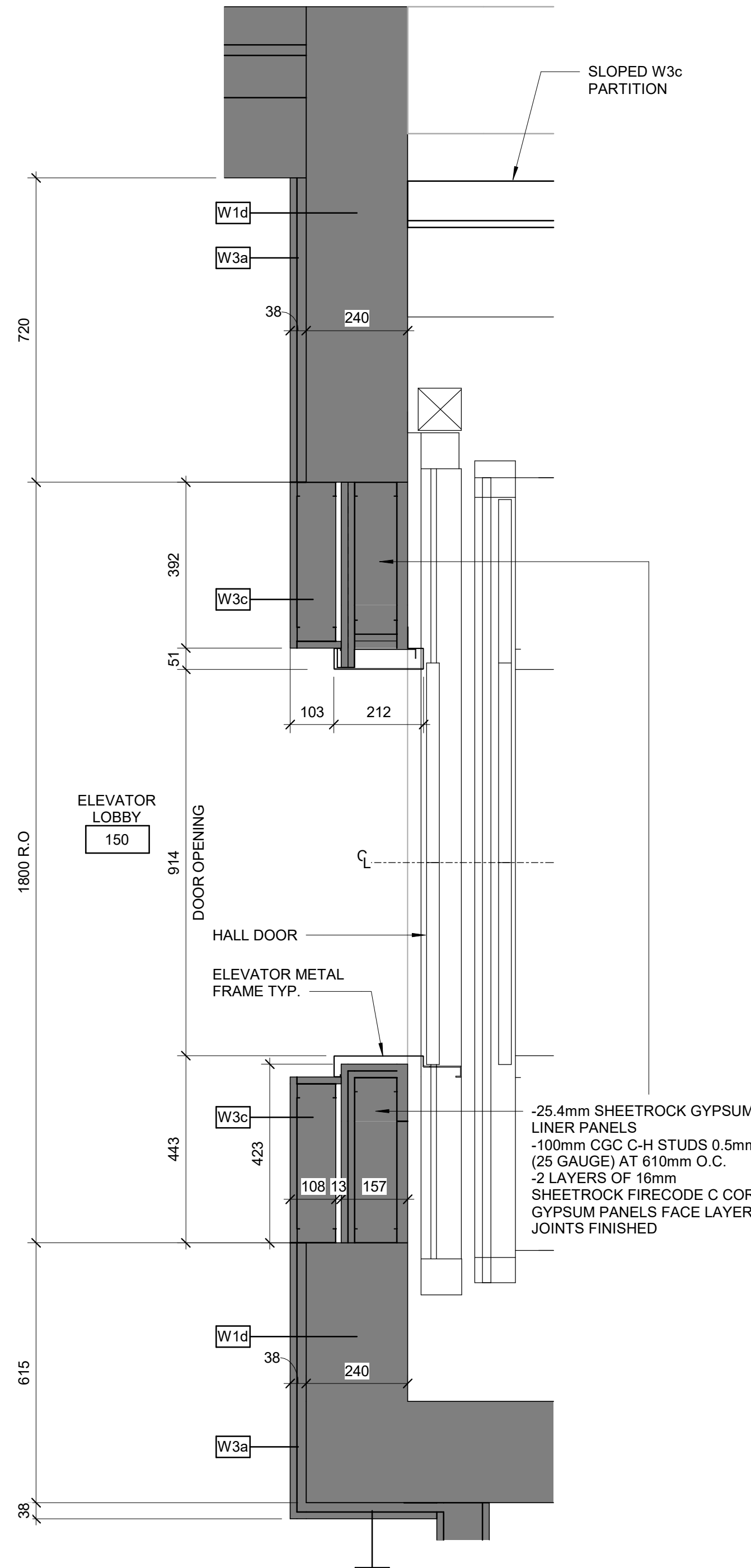




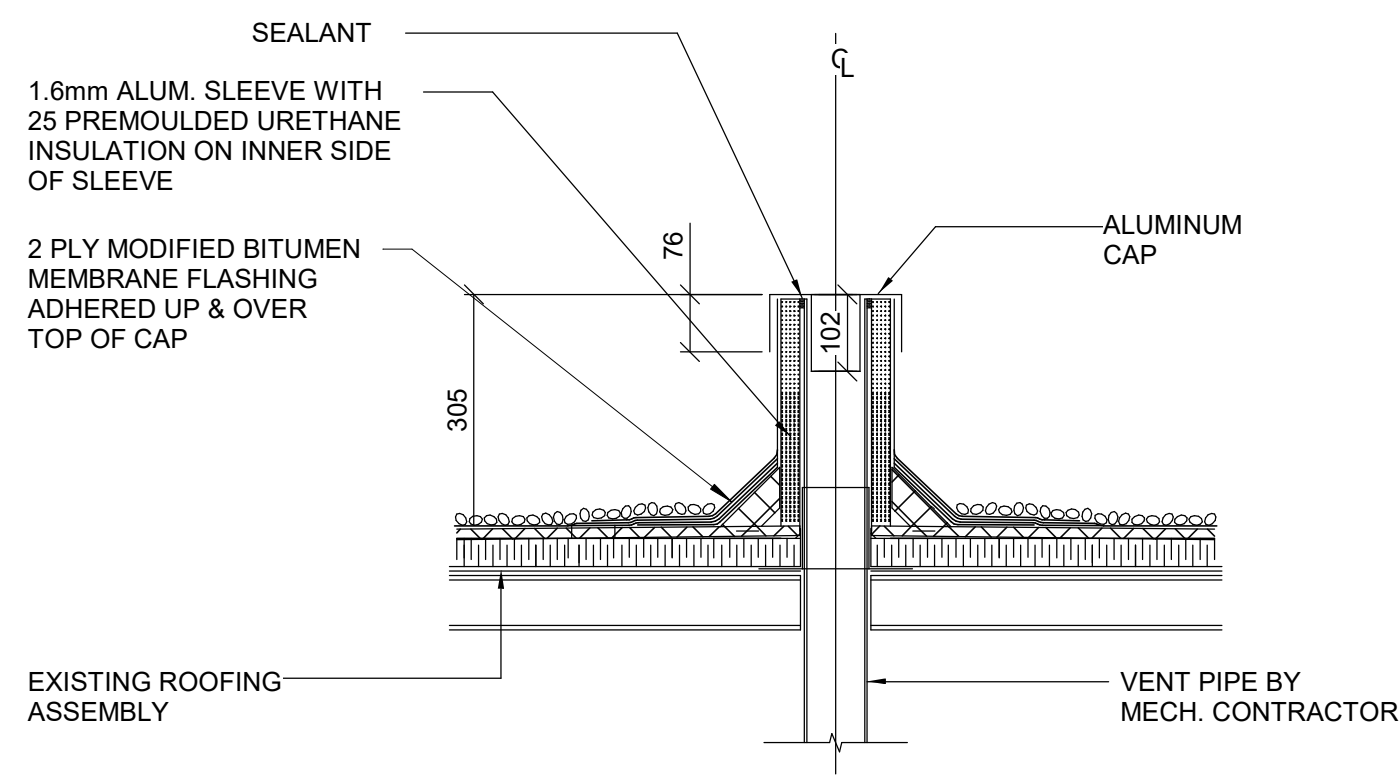
1 BASEMENT - ELEVATOR DOOR JAMB PLAN DETAIL  
A5312 Scale: 1: 10



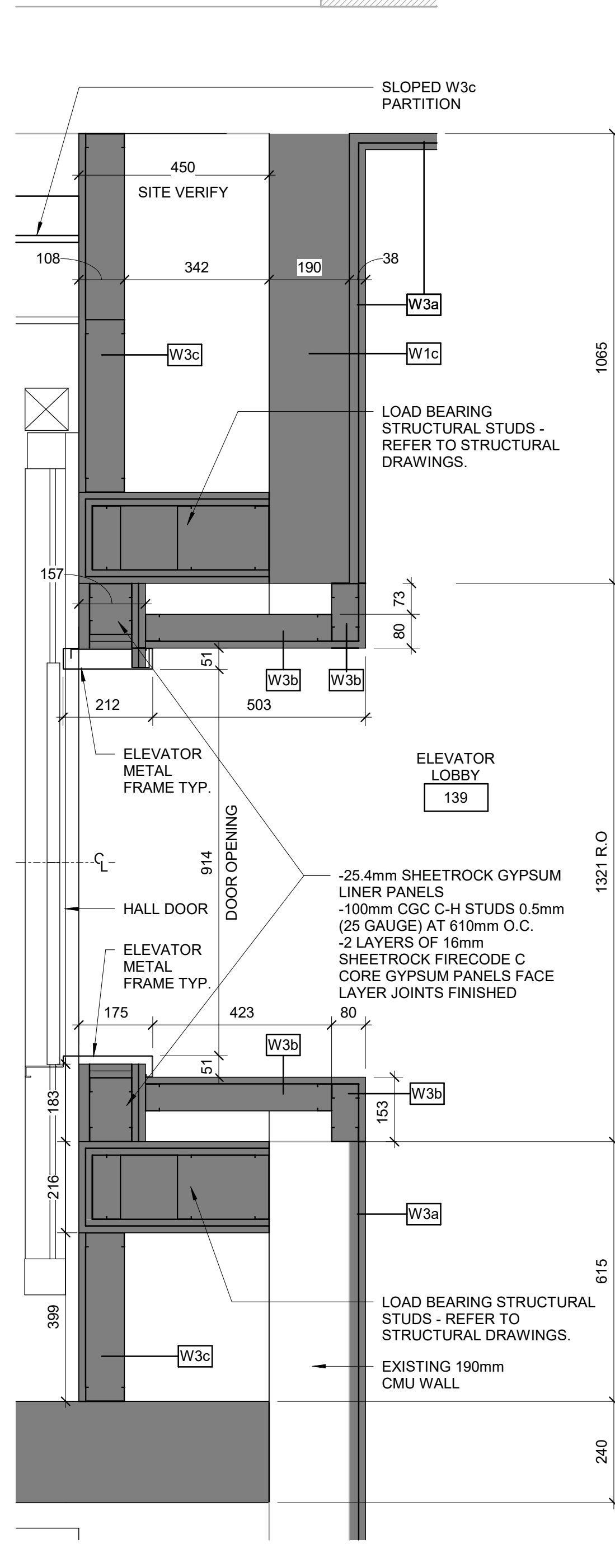
7 2HR FIRE RATED CORRIDOR CEILING DETAIL TYP.  
A5312 Scale: 1: 2



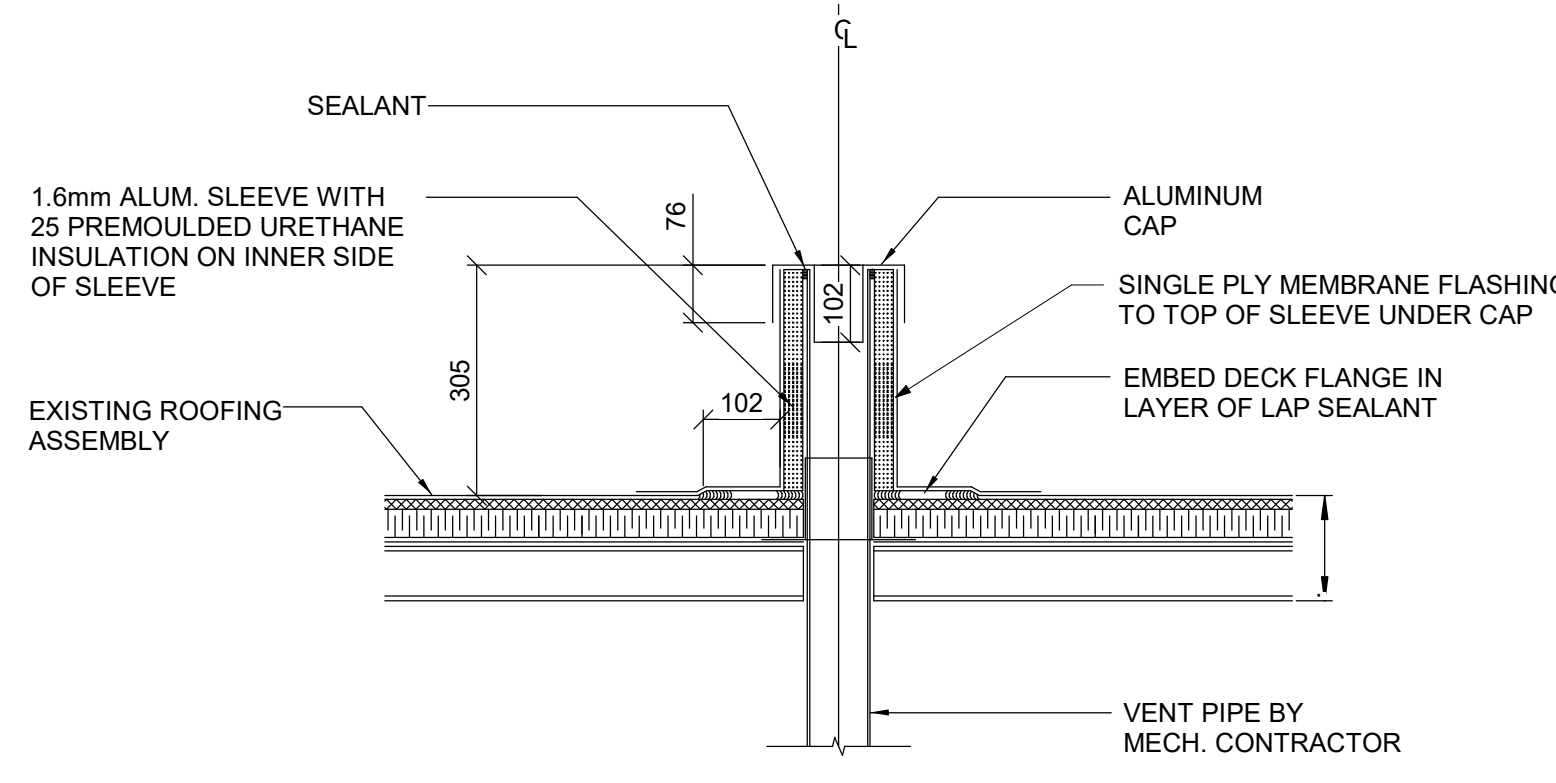
2 GROUND FLOOR - ELEVATOR DOOR JAMB PLAN DETAIL  
A5312 Scale: 1: 10



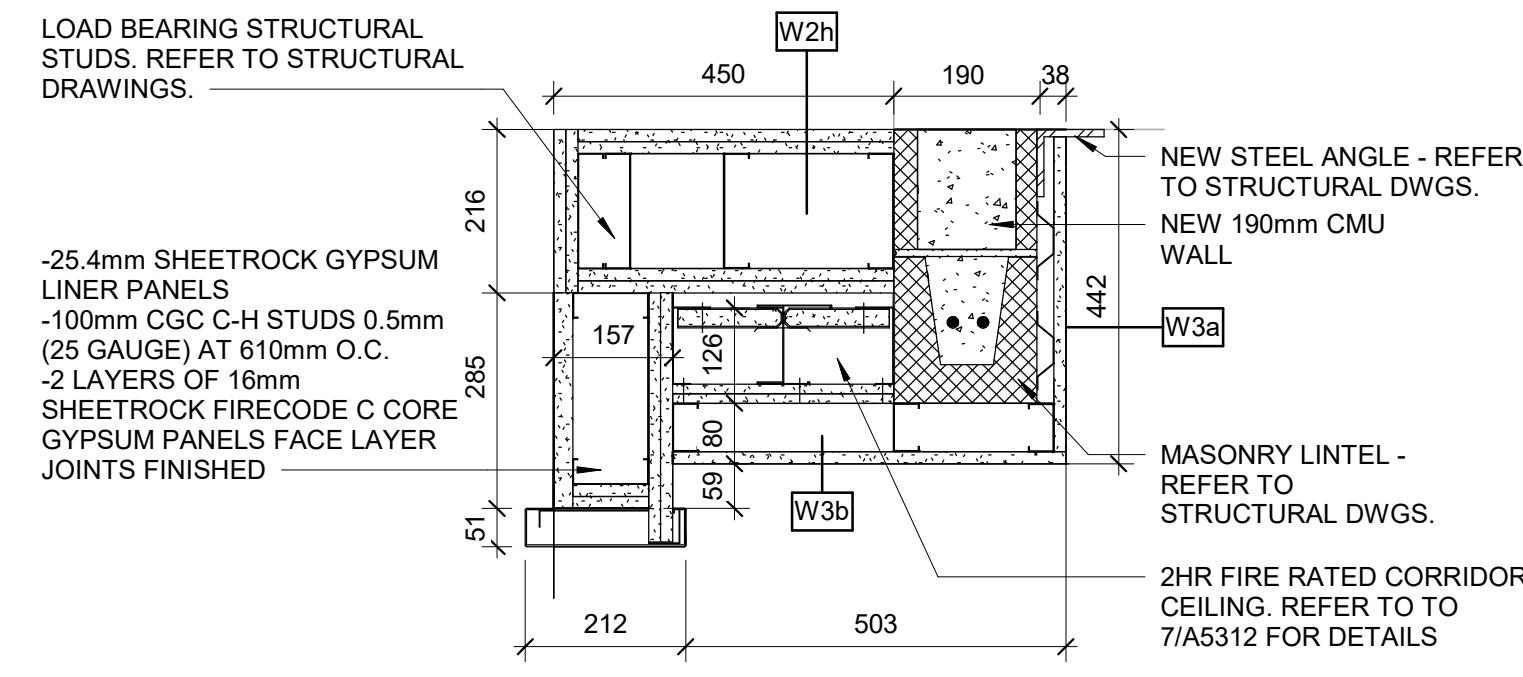
8 TYP. PLUMBING VENT OPTION 1 - 4-PLY BUILT-UP ROOFING  
A5312 Scale: 1: 10



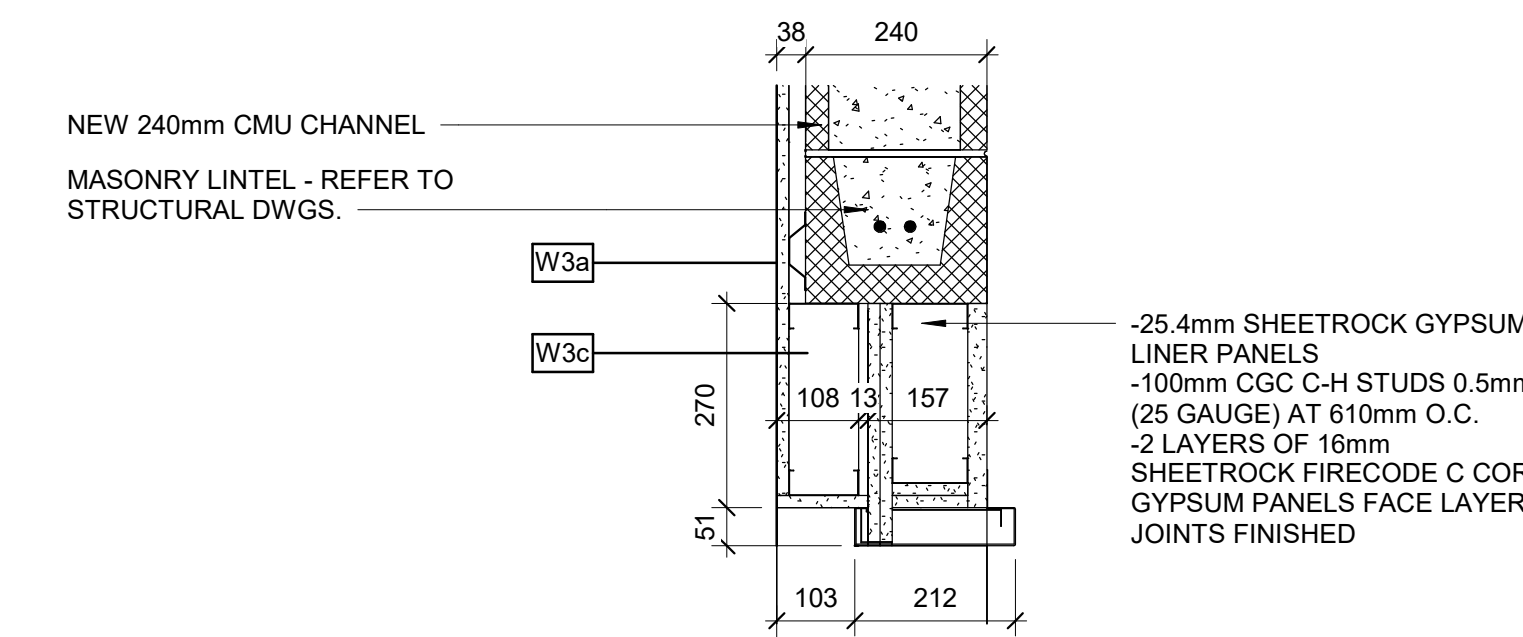
3 MEZZANINE LEVEL - ELEVATOR DOOR JAMB PLAN DETAIL  
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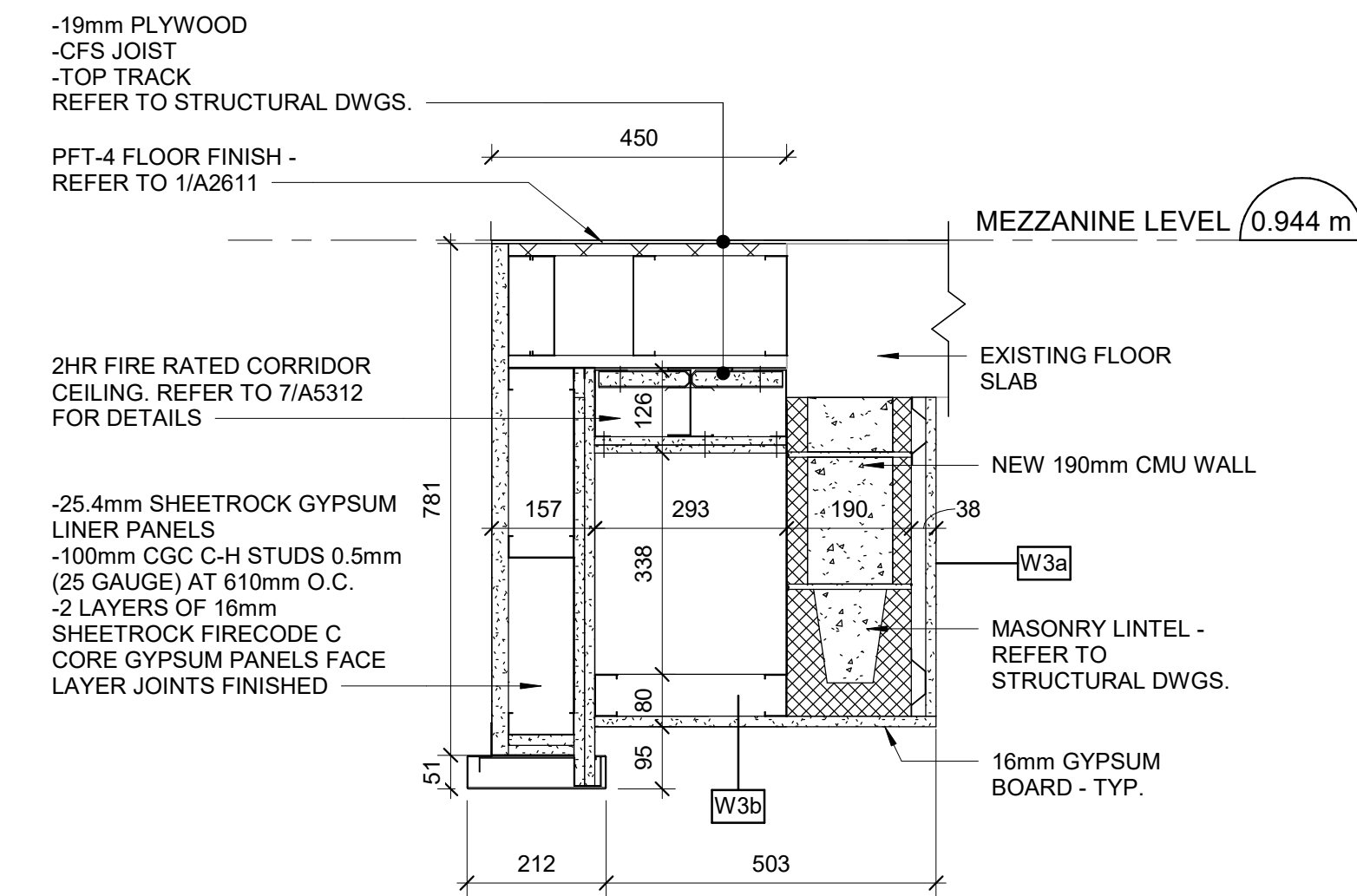
9 TYP. PLUMBING VENT OPTION 2 - SINGLE PLY MEMBRANE ROOFING  
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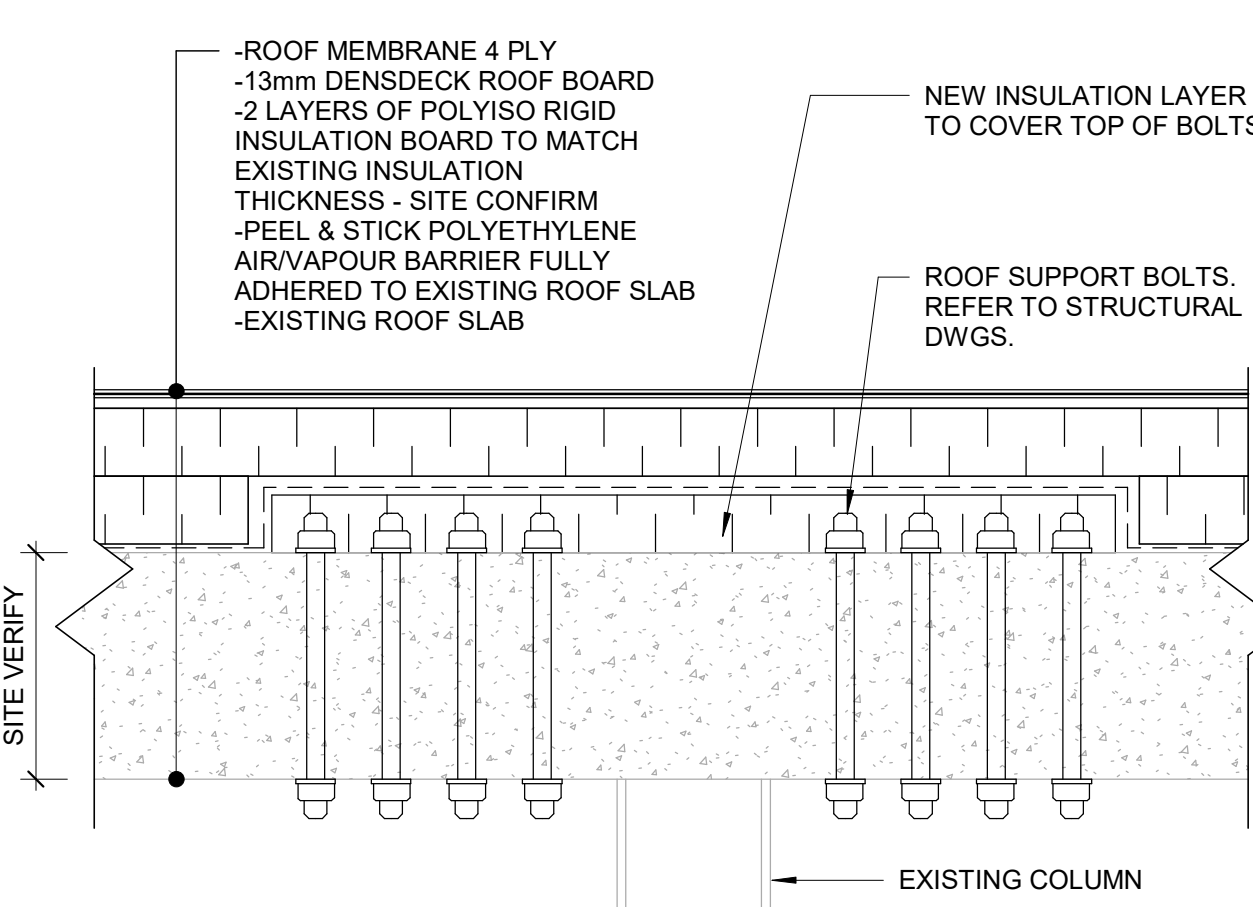
4 ELEVATOR DOOR HEAD DETAIL AT MEZZANINE  
A5312 Scale: 1: 10



5 ELEVATOR DOOR HEAD DETAIL AT GROUND FLOOR  
A5312 Scale: 1: 10



6 ELEVATOR DOOR HEAD DETAIL AT BASEMENT  
A5312 Scale: 1: 10



10 REINFORCEMENT AT EXISTING ROOF SLAB  
A5312 Scale: 1: 5

ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR PERMIT	2022-03-18
B	100% SUBMISSION	2023-02-17
C	ISSUED FOR REVISED PERMIT/100%	2023-08-31
D	ISSUED FOR REVISED 100% PERMIT REV. 2	2024-04-30
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F	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
G	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY: <b>A. KVASNIUK / M. V.</b>	CHECKED BY: <b>L. BANDIERA</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>E. FENUTA</b>

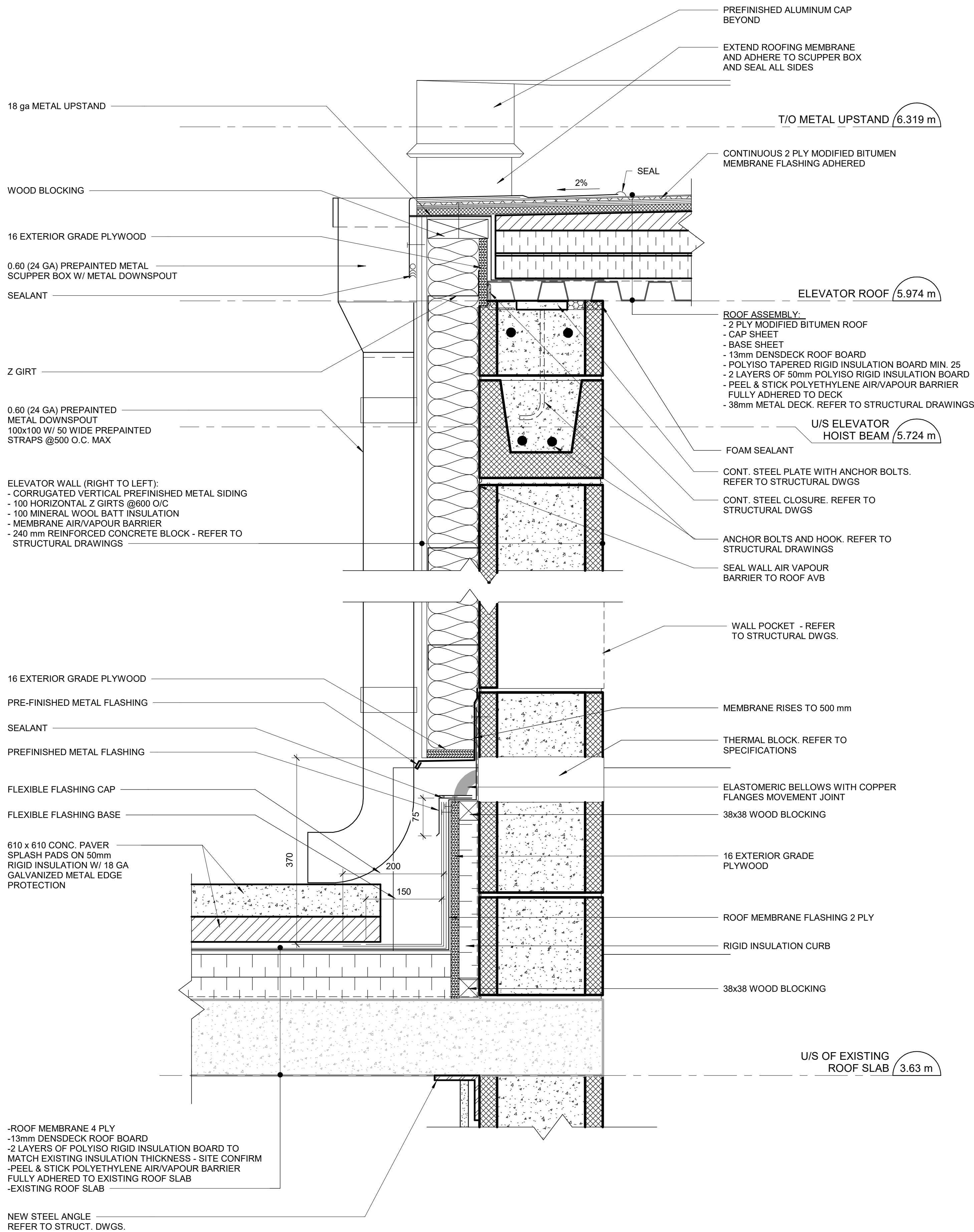
SHEET TITLE  
**ELEVATOR DETAILS,  
ROOF AND PARAPET**

SHEET NUMBER <b>G21-086-A5312</b>	ISSUE <b>G</b>
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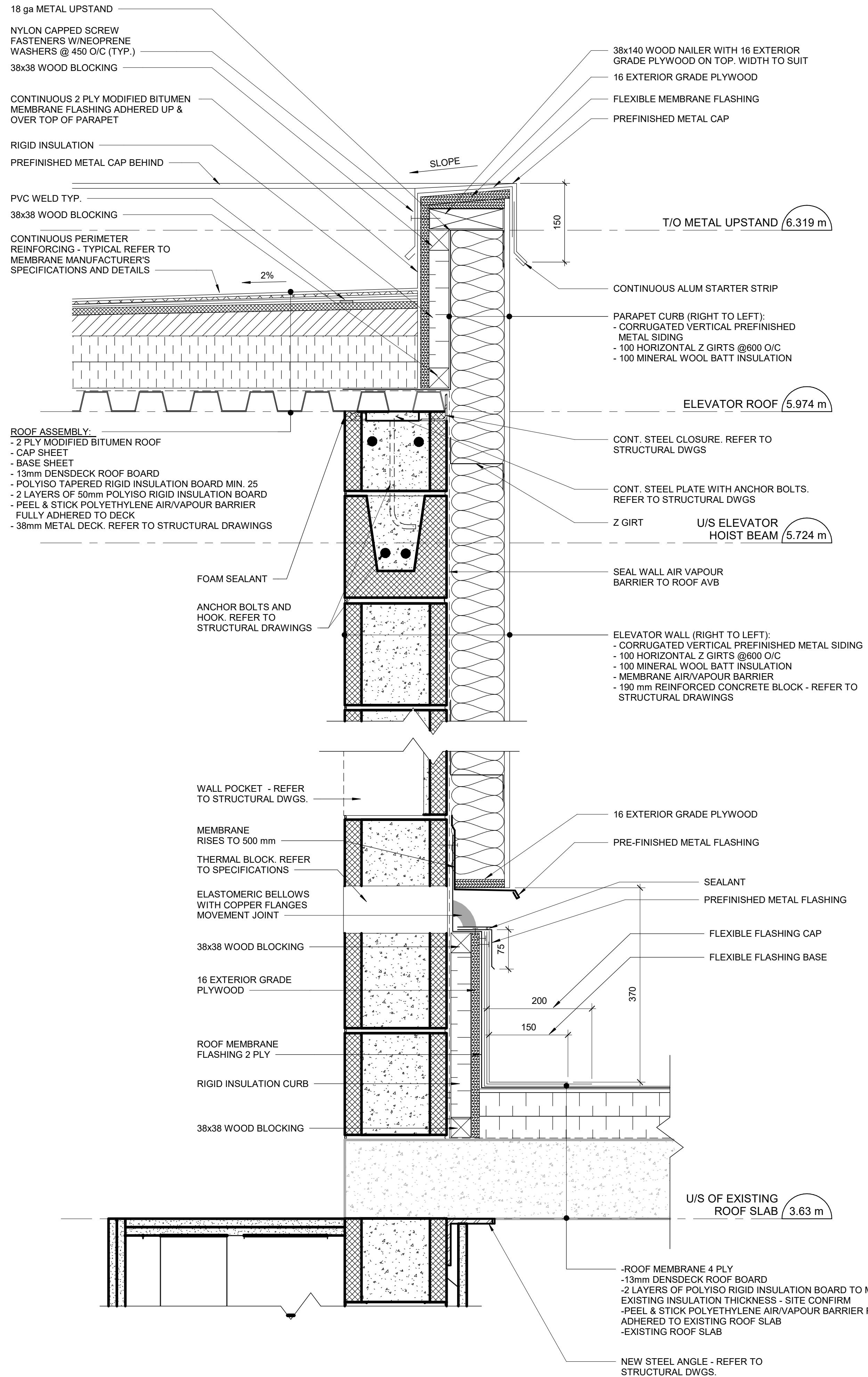




2025-09-08 1:01:32 PM



1 ROOF SCUPPER DETAIL  
A5315 Scale: 1:5



2 ROOF PARAPET DETAIL  
A5315 Scale: 1:5

ISSUES		
No.	DESCRIPTION	DATE
A	100% SUBMISSION	2023-02-17
B	ISSUED FOR REVISED PERMIT/100%	2023-08-31
C	ISSUED FOR REVISED 100% PERMIT	2024-04-30
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E	ISSUED FOR REVISED PERMIT REV. 3	2024-12-17
F	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATION  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**M. VILLALBA**

CHECKED BY:  
**L. BANDIERA**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**E. FENUTA**

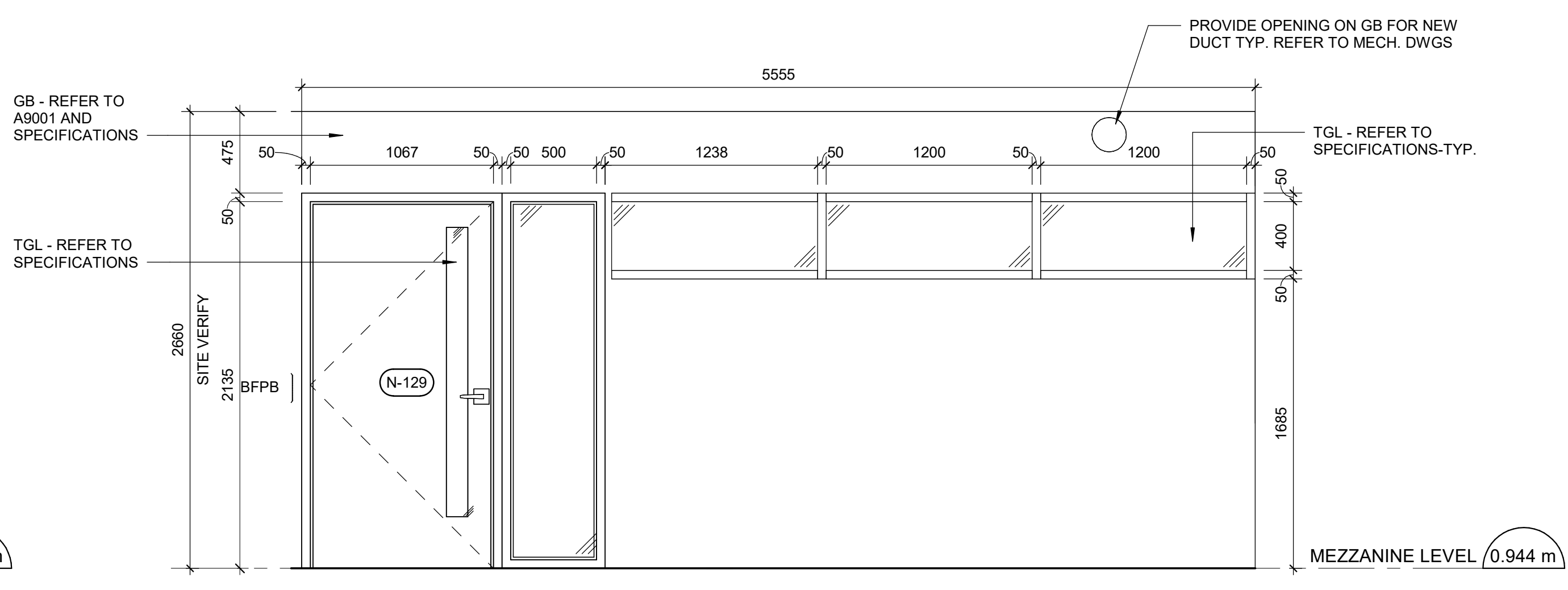
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**ELEVATOR DETAILS AT  
ROOF AND PARAPET**

SHEET NUMBER  
**G21-086-A5315**

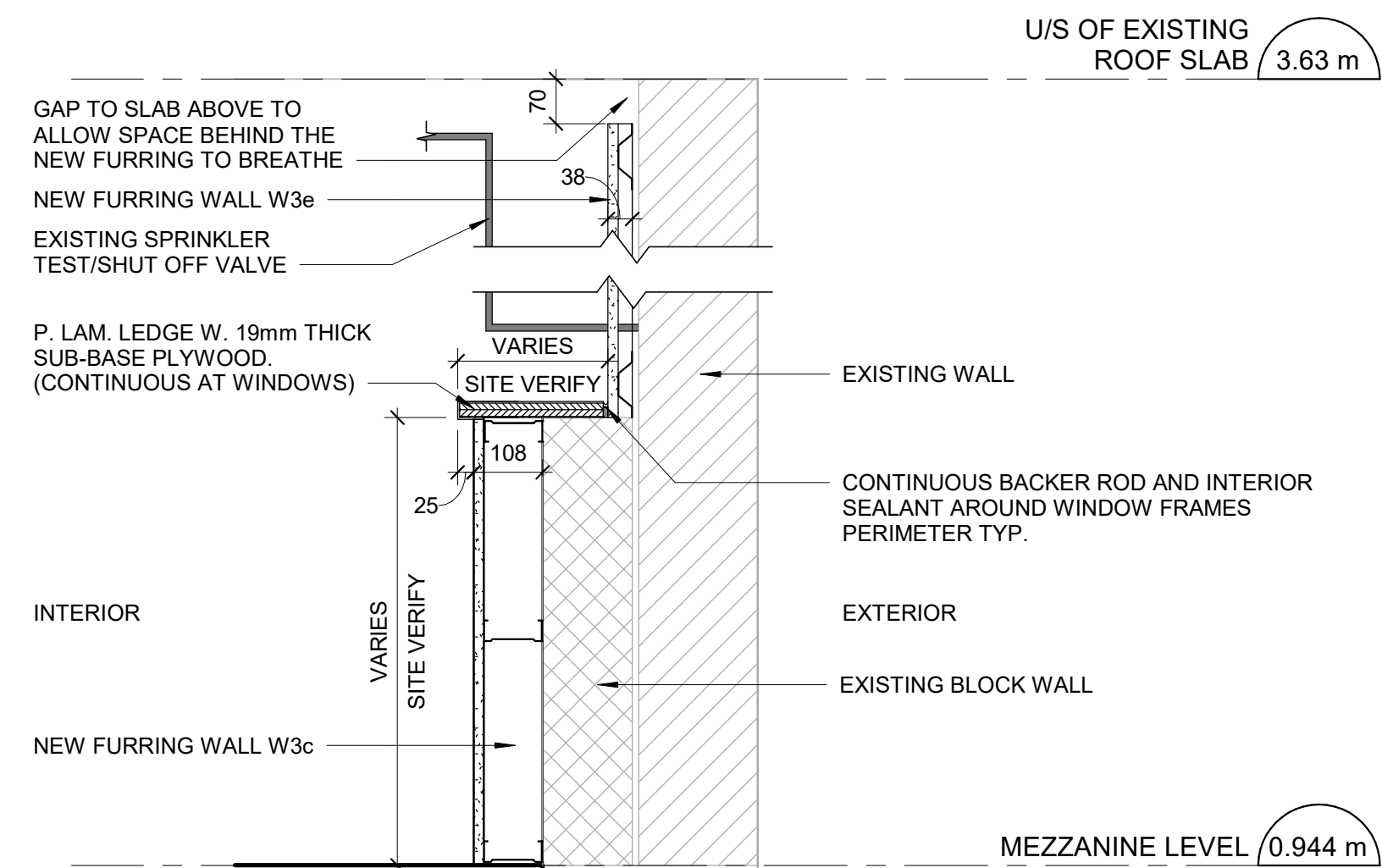
ISSUE  
**F**



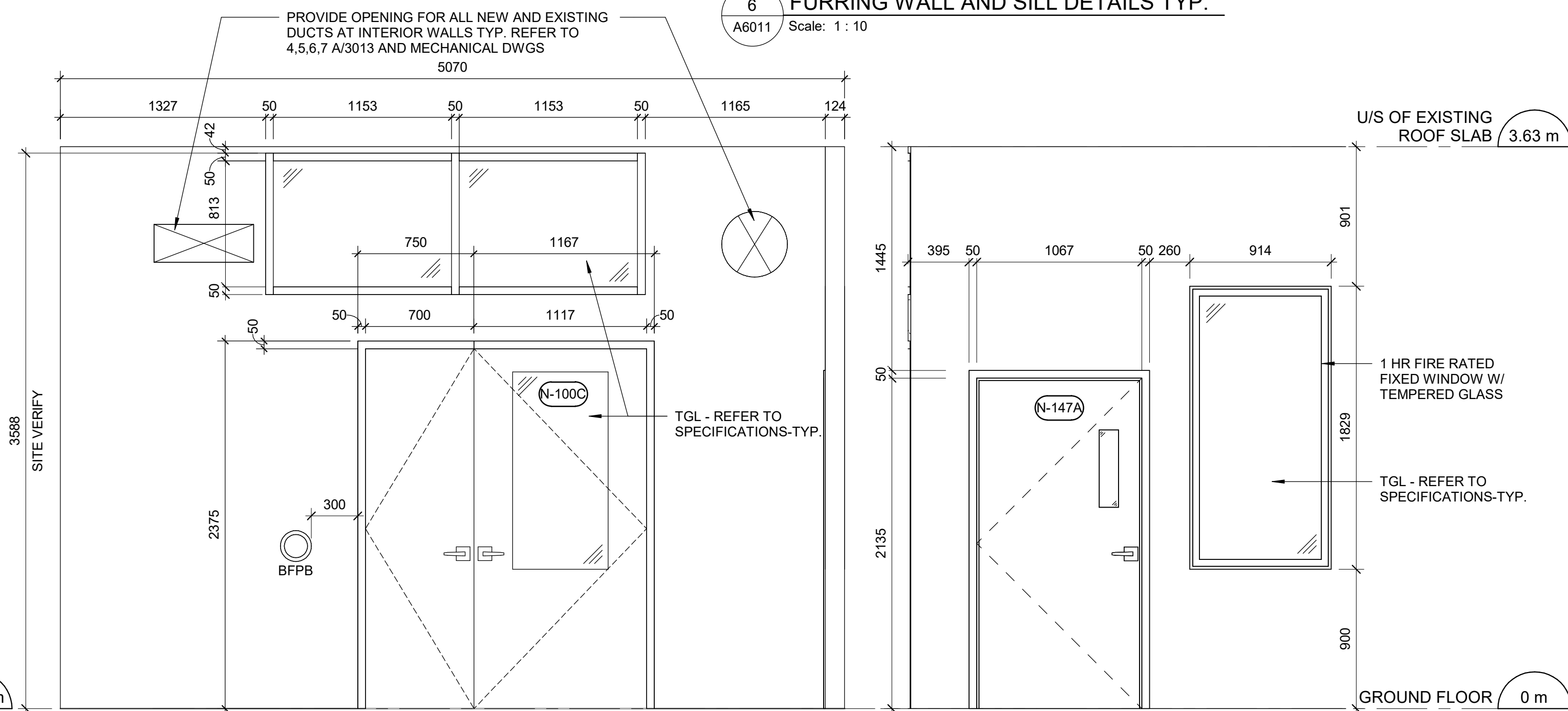




2 UPPER LEVEL-MEETING ROOM 129 - EAST ELEVATION  
A6011 Scale: 1 : 25

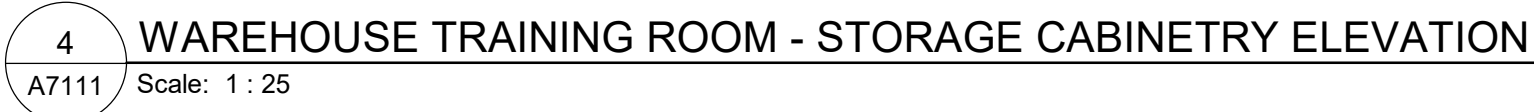


6 FURRING WALL AND SILL DETAILS TYP.  
A6011 Scale: 1 : 10



7 INTERIOR DOOR N-147A AND WINDOW  
A6011 Scale: 1 : 25





SHEET TITLE	
MILLWORK	
SHEET NUMBER	ISSUE
G21-086-A7111	J

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**IBI Group Professional Services (Canada) Inc.**

## ISSUES

No.	DESCRIPTION	DATE
A	ISSUED FOR TENDER	2025-09-08

**CONSULTANTS**  
**ENTRO**  
33 Harbour Square, Suite 202  
Toronto, Canada M5J 2G2

SEA

PRIME CONSULTANT



PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS  
PARAMEDICS  
160 RIVALDA ROAD

PROJECT NO:  
9119 – 19 – 0162 / IBI 122260

DRAWN BY:	CHECKED BY:
-----------	-------------

DRAWN BY:

M.LOW

PROJECT M

R. DALY

QUEST TITLE

SHEET TITLE  
SIGN

### SIGNAGE & WAYFINDING DETAILS




#### LEVEL B LOCATION PLAN




SHEET NUMBER  
**G21-086-A8000**

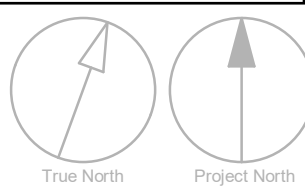
SSUE  
A



## SIGN TAG LEGEND

 **B** **LX-000** Directional
  **H** **LX-000** Amenity
  **G** **LX-000** Inside Stair ID

 **E** **LX-000** Room ID
  **J** **LX-000** Entrance
  **S** **LX-000** Stair ID





ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR TENDER	2025-09-08

**CONSULTANTS**  
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SEAL

**PRIME CONSULTANT**  
  
100 - 175 Galaxy Blvd.  
Toronto, ON M6W 0C8, Canada  
Tel: 416-675-1500  
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**PROJECT TITLE**  
**CITY OF TORONTO**  
**ACCESSIBILITY UPGRADES**

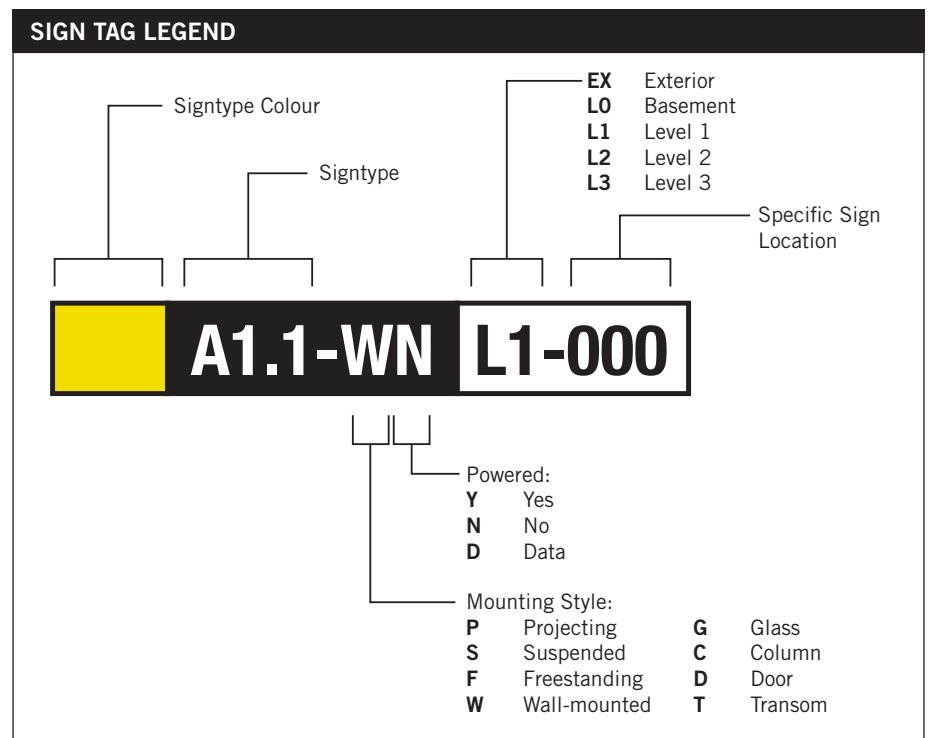
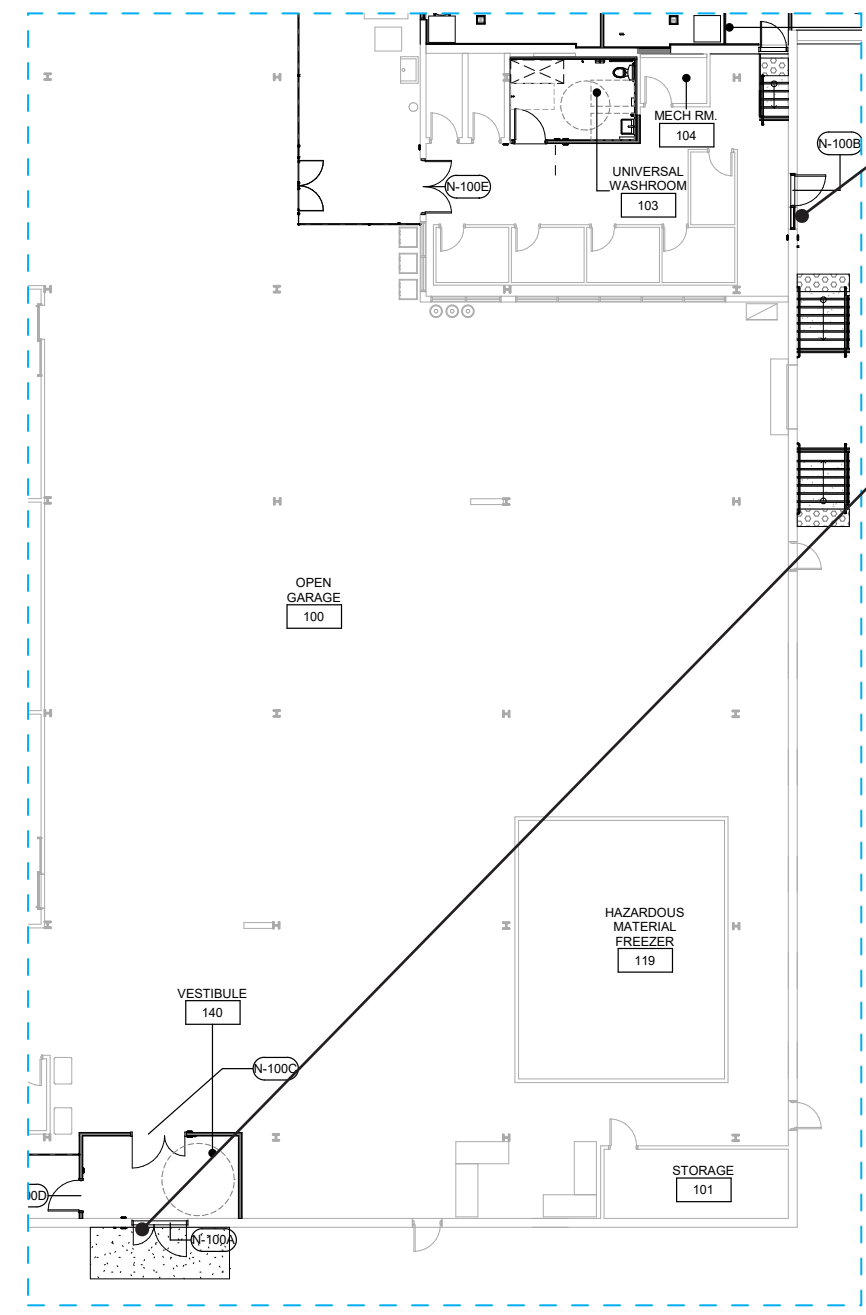
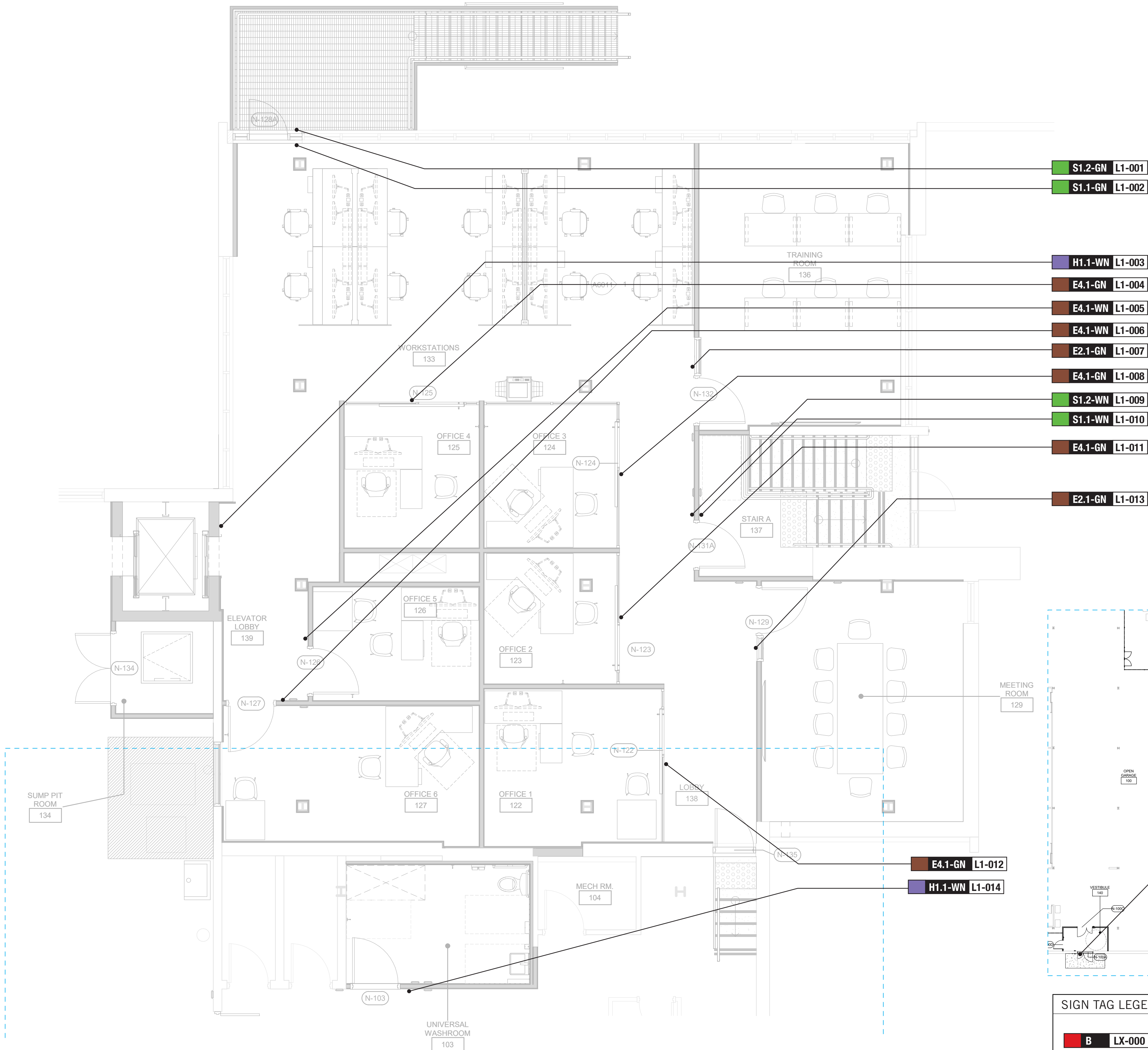
**PROJECT ADDRESS**  
**PARAMEDICS**  
160 RIVALDA ROAD

**PROJECT NO:**  
9119 - 19 - 0162 / IBI 122260

<b>DRAWN BY:</b> <b>M. LOW</b>	<b>CHECKED BY:</b> <b>C.D. SCHNOBB</b>
<b>PROJECT MGR:</b> <b>R. DALY</b>	<b>APPROVED BY:</b>

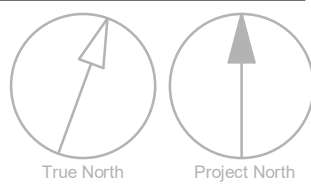
**SHEET TITLE**  
**SIGNAGE & WAYFINDING**  
**DETAILS**  
LEVEL 1 LOCATION PLAN

<b>SHEET NUMBER</b> <b>G21-086-A8010</b>	<b>ISSUE</b> <b>A</b>
---	--------------------------



SIGN TAG LEGEND			
<b>B</b> <b>LX-000</b> Directional	<b>H</b> <b>LX-000</b> Amenity	<b>G</b> <b>LX-000</b> Inside Stair ID	
<b>E</b> <b>LX-000</b> Room ID	<b>J</b> <b>LX-000</b> Entrance	<b>S</b> <b>LX-000</b> Stair ID	

Scale 1:50



KEYPLAN


B

SIGN CODE	LEVEL	LOC #	SIGN TYPE DESCRIPTION	SIDE A	SIDE B
				MESSAGE (English)	MESSAGE (English)
J4.2	B	001	Accessible Entrance ID - Exterior	[accessible picto] Entrance Braille	
E2.1	B	002	Room ID	Lunchroom Braille	
S1.2	B	003	Stair ID - Corridor Side	[stairs picto] Floor     B Braille Stairwell   A 005 Braille	
S1.1	B	004	Stair ID - Inside Stairwell	Floor     B Braille Stairwell   A 005 Braille	
H1.1	B	005	Amenity ID	[elevator picto] Elevator Braille	
E2.1	B	006	Room ID	Lunchroom Braille	
H1.1	B	007	Amenity ID	[universal accessible changeroom picto] Changeroom Braille	
H1.1	B	008	Amenity ID	[universal accessible changeroom picto] Changeroom Braille	
E2.1	B	009	Room ID	Lunchroom Braille	
H1.1	B	010	Amenity ID	[universal accessible changeroom picto] Changeroom Braille	
H1.1	B	011	Amenity ID	[universal accessible changeroom picto] Changeroom Braille	
H1.1	B	012	Amenity ID	[universal accessible changeroom picto] Changeroom Braille	
H1.1	B	013	Amenity ID	[universal accessible changeroom picto] Changeroom Braille	
H1.1	B	014	Amenity ID	[universal accessible changeroom picto] Changeroom Braille	
E2.1	B	015	Room ID	Mechanical Room Braille	
H1.1	B	016	Amenity ID	[universal accessible changeroom picto] Changeroom Braille	
E2.1	B	017	Room ID	Janitor Braille	

SIGN TYPE	SIGN TYPE DESCRIPTION	COUNT
B1.1	Directional	0
E2.1	Room ID	8
E2.2	Line Room ID	0
E4	Insert Holder	6
H1.1	Amenity ID	11
H2.1	Projecting Amenity ID	0
J4.2	Accessible Entrance ID - Exterior	3
S1.1	Stair ID - Inside Stairwell	3
S1.2	Stair ID - Corridor Side	3
S1.3	Stair ID - Roof Exit, Inside Stairwell	0
S1.4	Stair ID - Exterior Door	0
Total		34

CLIENT

CITY OF TORONTO



55 John St.  
TORONTO, ON  
M5V 3C6

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ISSUES


No.	DESCRIPTION	DATE
A	ISSUED FOR TENDER	2025-09-08

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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PARAMEDICS  
160 RIVALDA ROAD

PROJECT NO:

9119 – 19 – 0162 / IBI 122260

DRAWN BY:

M.LOW

CHECKED BY:

C.D. SCHNOBB

PROJECT MGR:

R. DALY

APPROVED BY:

SHEET TITLE

SIGNAGE & WAYFINDING  
DETAILS  
MESSAGE SCHEDULE

SHEET NUMBER

G21-086-A8100

ISSUE

A

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Scale Check

1 of 1




KEYPLAN

L1

SIGN CODE	LEVEL	LOC #	SIGN TYPE DESCRIPTION	SIDE A		SIDE B	
				MESSAGE (English)		MESSAGE (English)	
E2.1	B	018	Room ID	Elevator Closet Braille			
S1.2	L1	001		[stairs picto] Floor 1 Braille Stairwell C TBD Braille			
S1.1	L1	002	Stair ID - Inside Stairwell	Floor 1 Braille Stairwell C TBD Braille			
H1.1	L1	003	Amenity ID	[elevator picto] Elevator Braille			
E4	L1	004	Insert Holder				
E4	L1	005	Insert Holder				
E4	L1	006	Insert Holder				
E2.1	L1	007	Room ID	Conference Room Braille			
E4	L1	008	Insert Holder				
S1.2	L1	009	Stair ID - Corridor Side	[stairs picto] Floor 1 Braille Stairwell A 137 Braille			
S1.1	L1	010	Stair ID - Inside Stairwell	Floor 1 Braille Stairwell A 137 Braille			
E4	L1	011	Insert Holder				
E4	L1	012	Insert Holder				
E2.1	L1	013	Room ID	Training Room Braille			
H1.1	L1	014	Amenity ID	[universal accessible washroom picto] Washroom Braille			
J4.2	L1	016	Accessible Entrance ID - Exterior	[accessible picto] Entrance Braille			
J4.2	L1	017	Accessible Entrance ID - Exterior	[accessible picto] Entrance Braille			

CLIENT

CITY OF TORONTO



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TORONTO, ON  
M5V 3C6

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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PARAMEDICS  
160 RIVALDA ROAD

PROJECT NO:

9119 – 19 – 0162 / IBI 122260

DRAWN BY:

M.LOW

CHECKED BY:

C.D. SCHNOBB

PROJECT MGR:

R. DALY

APPROVED BY:

SHEET TITLE

SIGNAGE & WAYFINDING  
DETAILS  
MESSAGE SCHEDULE

SHEET NUMBER

G21-086-A8101

ISSUE

A

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1 of 1

SCALE CHECK

DOOR SCHEDULE																
DOOR NO.	LOCATION	DOOR				PANEL			FRAME		DOOR HARDWARE			FIRE RATING (MINUTES)	REMARKS	
		TYPE	WIDTH	HEIGHT	THICKNESS	MAT.	FIN.	GLASS	MAT.	FIN.	SECURITY ACCESS CONTROL DEVICE	BFPB/ BFWO	PANIC DEVICE			
BASEMENT																
N-004A	STAIR A	C	1067	2135	45	HM	PT-1	TGL	HM	PT-1		*		NA	BLACK ANODIZED ALUMINUM FRAME TO MATCH EXISTING BLACK ANODIZED ALUMINUM FRAME TO MATCH EXISTING	
N-004B		E	1067	2185	45	IALUM	ANOD	ITGL	IALUM	ANOD	*			NA		
N-004C		E	1067	2185	45	IALUM	ANOD	ITGL	IALUM	ANOD	*			NA		
N-005		C	915	2135	45	HM	PT-1	ITGL	HM	PT-1				45		
N-007		A	915	2135	45	HM	PT-1	<=>	HM	PT-1				45	FROSTED GLAZING	
N-008		A(L)	915	2135	45	HM	PT-1	<=>	HM	PT-1				45		
N-009A		D	1067	2135	45	HM	PT-1	TGL	HM	PT-1		*		NA		
N-009B		A(L)	915	2135	45	HM	PT-1	<=>	HM	PT-1				NA		
N-010		WC STALL	A(L)	915	2135	45	HM	PT-1	<=>	HM	PT-1				NA	FROSTED GLAZING FROSTED GLAZING
N-011		WC STALL	A(L)	915	2135	45	HM	PT-1	<=>	HM	PT-1				NA	
N-012	BARRIER-FREE STALL 1	A(L)	1067	2135	45	HM	PT-1	<=>	HM	PT-1		BFPB/PTLB		NA		
N-013	A	915	2135	45	HM	PT-1	<=>	HM	PT-1				45			
N-014A	VESTIBULE	D	1067	2135	45	HM	PT-1	TGL	HM	PT-1		*		NA	FROSTED GLAZING FROSTED GLAZING	
N-014B	VESTIBULE	D	1067	2135	45	HM	PT-1	TGL	HM	PT-1		*		NA		
N-015	A(L)	915	2135	45	HM	PT-1	<=>	HM	PT-1				NA			
N-016	WC STALL	A(L)	915	2135	45	HM	PT-1	<=>	HM	PT-1				NA		
N-017	WC STALL	A(L)	915	2135	45	HM	PT-1	<=>	HM	PT-1				NA		
N-018	ELEV CLOSET	AA	820	2135	45	HM	PT-1	<=>	HM	PT-1				45		
GROUND FLOOR																
G-101	LOWER OFFICE	SRS SWING GATE	1219	2134		<=>	<=>	<=>	<=>	<=>			*	NA	METAL SWING SINGLE GATE W/ LATCH & EXIT DEVICE MOUNTED ON STAINLESS STEEL BACKER PLATE	
G-102	LOWER OFFICE	SRS SWING GATE	1016	2134		<=>	<=>	<=>	<=>	<=>			*	NA	METAL SWING SINGLE GATE W/ LATCH & EXIT DEVICE MOUNTED ON STAINLESS STEEL BACKER PLATE	
G-103	LOWER OFFICE	SRS SWING GATE	1219	2134		<=>	<=>	<=>	<=>	<=>	*		*	NA	METAL SWING SINGLE GATE W/ LATCH, CARD READER & EXIT DEVICE MOUNTED ON STAINLESS STEEL BACKER PLATE	
N-100A	VESTIBULE	AC	1067	2325	45	IALUM	ANOD	ITGL	IALUM	ANOD	*	*		NA	PROVIDE PROXY AND INTRUSION SWIPE	
N-100B	LOWER OFFICE	Fs	1067	2125	45	IALUM	ANOD	ITGL	IALUM	ANOD	*	*		NA	PROVIDE PROXY AND INTRUSION SWIPE	
N-100C	LOWER OFFICE	AC	1067	2325	45	ALUM	ANOD	TGL	ALUM	ANOD	*	*		NA		
N-100D	VESTIBULE	C	1067	2135	45	HM	PT-1	ITGL	HM	PT-1		*		45		
N-100E	LOWER OFFICE	EE-1	1067	2130	45	IHM	PT3	ITGL	HM	PT3	*	*		NA		
N-103	UNIVERSAL WASHROOM	A(L)	1067	2135	45	HM	PT-3	<=>	HM	PT-3		BFPB/PTLB		NA		
N-134	SUMP PIT ROOM	AA	820	2135	45	HM	PT-3	<=>	HM	PT-3				NA		
N-147A	CENTRAL MEDICATION STORAGE RM	B	1067	2135	45	HM	PT-3	ITGL	HM	PT-3	*			45		
N-147B	DRUG STORAGE RM	A(L)	1067	2135	45	HM	PT-3	<=>	HM	PT-3	*			NA		
N-149	MAIN TRAINING RM	EE	910	2135	45	HM	PT-3	ITGL	HM	PT3				45		
MEZZANINE LEVEL																
N-122	OFFICE 1	S1	1170	2150	45	ALUM	ANOD	TGL	ALUM	ANOD				NA	BLACK ANODIZED ALUMN. FRAME AND PULL. PROVIDE NEW FROSTED GLASS FILM	
N-123	OFFICE 2	S1	1170	2150	45	ALUM	ANOD	TGL	ALUM	ANOD				NA	BLACK ANODIZED ALUMN. FRAME AND PULL. PROVIDE NEW FROSTED GLASS FILM	
N-124	OFFICE 3	S1	1170	2150	45	ALUM	ANOD	TGL	ALUM	ANOD				NA	BLACK ANODIZED ALUMN. FRAME AND PULL. PROVIDE NEW FROSTED GLASS FILM	
N-125	OFFICE 4	S1	1170	2150	45	ALUM	ANOD	TGL	ALUM	ANOD				NA	BLACK ANODIZED ALUMN. FRAME AND PULL. PROVIDE NEW FROSTED GLASS FILM	
N-126	OFFICE 5	C	1067	2135	45	WD	VNR-1	TGL	HM	PT-1				NA	PROVIDE NEW ROLLER SHADES. FOR TYPE AND DETAILS REFER TO SPECIFICATIONS	
N-127	OFFICE 6	A	1067	2135	45	WD	VNR-1	<=>	HM	PT-1		*		NA		
N-129	MEETING ROOM	D	1067	2135	45	WD	VNR-1	TGL	HM	PT-1		*		NA		
N-131A	STAIR A	C	1067	2135	45	HM	PT-1	ITGL	HM	PT-1		*		45		
N-132	TRAINING ROOM	D	1067	2135	45	WD	VNR-1	TGL	HM	PT-1		*		NA		
N-135	LOBBY	C	900	2135	45	HM	PT-1	ITGL	HM	PT-1	*			45		

										ROOM FINISH SCHEDULE															
ROOM NUMBER	ROOM NAME	FLOOR		BASE		MAT.	NORTH	FIN.		EAST		MAT.	SOUTH	FIN.	MAT.	WEST	FIN.	CEILING			NOTES				
		MAT.	FIN.	MAT.	FIN.					MAT.	MAT.							FIN.	HEIGHT						
BASEMENT																									
003	ELEVATOR LOBBY	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1		GB		PT-1	EXPOSED	PT-2	EXIST	PAINT NEW HANDRAILS AND GUARDRAILS - PT-3					
004	LUNCH ROOM	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1, Q-1		EXIST, GB		PT-1	EXPOSED	PT-2	EXIST						
005	STAIR A	EXIST	EXIST, PFT-4	EXIST, PFT-4	EXIST, PFT-4	EXIST, GB		PT-1		EXIST, GB		PT-1		EXIST		PT-1	EXIST	EXIST	EXIST						
006	CORRIDOR	EXIST	PFT-4	PFT-4	PFT-4	EXIST		PT-1		EXIST		PT-1		EXIST		PT-1	EXIST	EXIST	EXIST						
007	MECHANICAL ROOM	EXIST	EXIST	EXIST	EXIST	EXIST		PT-1		EXIST		PT-1		EXIST		PT-1	EXIST	EXIST	EXIST						
008	JANITOR CLOSET	EXIST	EXIST	EXIST	EXIST	EXIST		PT-1		EXIST		PT-1		EXIST		PT-1	EXIST	EXIST	EXIST						
009	CHANGE ROOM	EXIST	PFT-4	PFT-4	PFT-1	EXIST, GB, CONC BLK		PT-1		GB		PT-1		GB		PT-1	GB	PT-2	2400						
010	WC STALL	EXIST	PFT-4, PFT-2	CWT-4	CWT-4	GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4	GB	PT-2	2400	CEMENT BOARD WITH SKIM COAT AND PT-2 OVER SHOWER AREA					
011	WC STALL	EXIST	PFT-4, PFT-2	CWT-4	CWT-4	GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4	GB	PT-2	2400	CEMENT BOARD WITH SKIM COAT AND PT-2 OVER SHOWER AREA					
012	BARRIER-FREE STALL 1	EXIST	PFT-4, PFT-2	CWT-4	CWT-4	GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4	GB	PT-2	2400	CEMENT BOARD WITH SKIM COAT AND PT-2 OVER SHOWER AREA					
013	MECHANICAL ROOM	EXIST	EXIST	EXIST	EXIST	GB		PT-1		GB		PT-1		EXIST, CONC BLK		PT-1	GB	PT-2	2400						
014	VESTIBULE	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		EXIST		PT-1		GB		PT-1	GB	PT-2	2400						
015	WC STALL	EXIST	PFT-4, PFT-2	CWT-4	CWT-4	GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4	GB	PT-2	2400	CEMENT BOARD WITH SKIM COAT AND PT-2 OVER SHOWER AREA					
016	WC STALL	EXIST	PFT-4, PFT-2	CWT-4	CWT-4	GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4	GB	PT-2	2400	CEMENT BOARD WITH SKIM COAT AND PT-2 OVER SHOWER AREA					
017	WC STALL	EXIST	PFT-4, PFT-2	CWT-4	CWT-4	GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4	GB	PT-2	2400	CEMENT BOARD WITH SKIM COAT AND PT-2 OVER SHOWER AREA					
GROUND FLOOR																									
100	LOWER OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST, GB		EXIST, PT-3		EXIST, GB		EXIST, PT-1		EXIST, GB		EXIST, PT-3	EXIST	EXIST	EXIST						
103	UNIVERSAL WASHROOM	EXIST	PFT-4, PFT-2	CWT-4	CWT-4	GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4		GB		CWT-1, CWT-3, CWT-4	GB	PT-2	2400						
134	SUMP PIT ROOM	EXIST	EXIST	EXIST	EXIST	CONC. BLK		PT-1		EXIST		PT-1		GB		PT-1	EXPOSED	PT-2	EXIST						
140	VESTIBULE	EXIST	EXIST	RB-1	PF	GB		PT-1		GB		PT-1		EXIST		PT-1	EXIST	EXIST	EXIST						
147	CENTRAL MEDICATION STORAGE RM	EXIST	EXIST	RB-1	PF	GB		PT-1		GB		PT-1		GB		PT-1	ACT	PREF	2700						
148	DRUG STORAGE RM	EXIST	EXIST	RB-1	PF	GB		PT-1		GB		PT-1		GB		PT-1	ACT	PREF	2700						
149	MAIN TRAINING RM	EXIST	CRPT-1	RB-2	PF	GB		PT-1		GB		PT-1		GB		PT-1	ACT	PREF	2750						
150	ELEVATOR LOBBY	EXIST	EXIST	RB-2	PF	EXIST, CONC BLK		PT-1		GB		PT-1		-		PT-1	EXIST	EXIST	3630						
MEZZANINE LEVEL																									
122	OFFICE 1	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1		GB		PT-1	ACT	PREF	2300						
123	OFFICE 2	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1		GB		PT-1	ACT	PREF	2300						
124	OFFICE 3	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1		GB		PT-1	ACT	PREF	2300						
125	OFFICE 4	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1		GB		PT-1	ACT	PREF	2300						
126	OFFICE 5	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1		GB		PT-1	ACT	PREF	2300						
127	OFFICE 6	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1		GB		PT-1	ACT	PREF	2300						
129	MEETING ROOM	EXIST	PFT-4	PFT-4	PFT-4	EXIST, GB		PT-1		GB		PT-1		GB		PT-1	ACT, EXPOSED	PREF, PT-2	2250	PAINT EXPOSED CEILING - PT-2					
130																									
133	OFFICE AREA	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1		GB		PT-1	EXPOSED	PT-2	EXIST						
136	TRAINING ROOM	EXIST	PFT-4	PFT-4	PFT-4	GB		PT-1		GB		PT-1		GB		PT-1	ACT, EXPOSED	PREF, PT-2	2250	PAINT EXPOSED CEILING - PT-2					
137	STAIR A	EXIST	EXIST, PFT-4	EXIST, PFT-4	EXIST, PFT-4	EXIST, GB		PT-1		EXIST		PT-1		EXIST, GB		PT-1	EXPOSED	PT-2	EXIST	PAINT NEW HANDRAILS AND GUARDRAILS - PT-3					
138	LOBBY	EXIST	PFT-4	PFT-4	PFT-4	-		-		GB		PT-1		GB		PT-1	EXPOSED	PT-2	EXIST						
139	ELEVATOR LOBBY	EXIST	PFT-4	PFT-4	PFT-4	-		-		GB		PT-1		GB		PT-1	EXPOSED	PT-2	EXIST						



Sheet List	
Sheet Number	Sheet Name
06 - Structural	
S0001	DRAWING LIST
S1201	SITE PLAN
S2000	DEMOLITION PLAN
S2100	FOUNDATION DEMOLITION & PROPOSED PLAN
S2401	GROUND FLOOR PLAN
S2500	BASEMENT DEMOLITION & PROPOSED PLAN
S2501	MEZZANINE LEVEL DEMOLITION & PROPOSED PLAN
S2502	ROOF DEMOLITION & PROPOSED PLAN
S2503	DRIVEWAY GATES AND PEDESTAL PLANS & DETAILS
S2504	EXTERIOR RAMP ENLARGED PLAN & DETAIL
S2505	MAIN ENTRANCE SLAB DETAIL
S5300	PLANS - ELEVATORS
S5301	PLANS - ELEVATORS
S5302	SECTIONS - ELEVATORS
S5303	EXISTING ROOF - PROPOSED
S6000	SECTIONS - ELEVATORS
S6001	SECTIONS-ELEVATORS
S6002	SECTIONS AND DETAILS

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ACCESSIBILITY UPGRADES

PROJECT ADDRESS  
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STATIONS  
160 RIVALDA RD

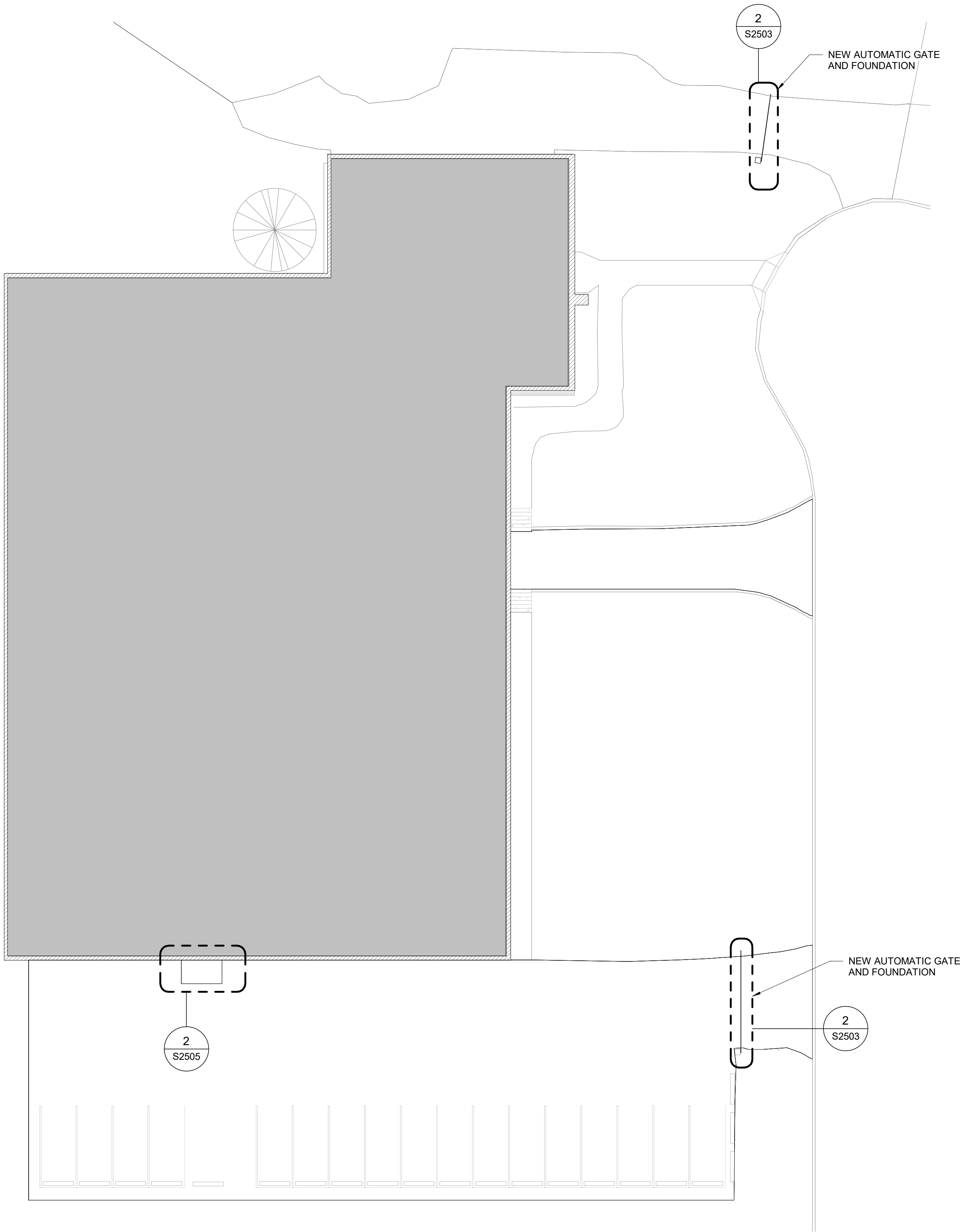
PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY: G. POULOU	CHECKED BY: M. SHEININ
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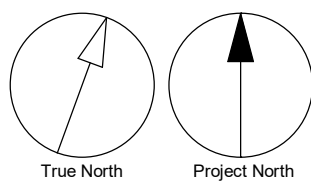
PROJECT MGR: F. BOLOURIAN	APPROVED BY: K. ANGER
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SHEET TITLE  
DRAWING LIST

SHEET NUMBER G21-086-S0001	ISSUE G
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1  
S1201  
Scale: 1 : 200  
PROPOSED SITE PLAN



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STATIONS  
160 RIVALDA RD**

PROJECT NO:  
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DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**M. SHEININ**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

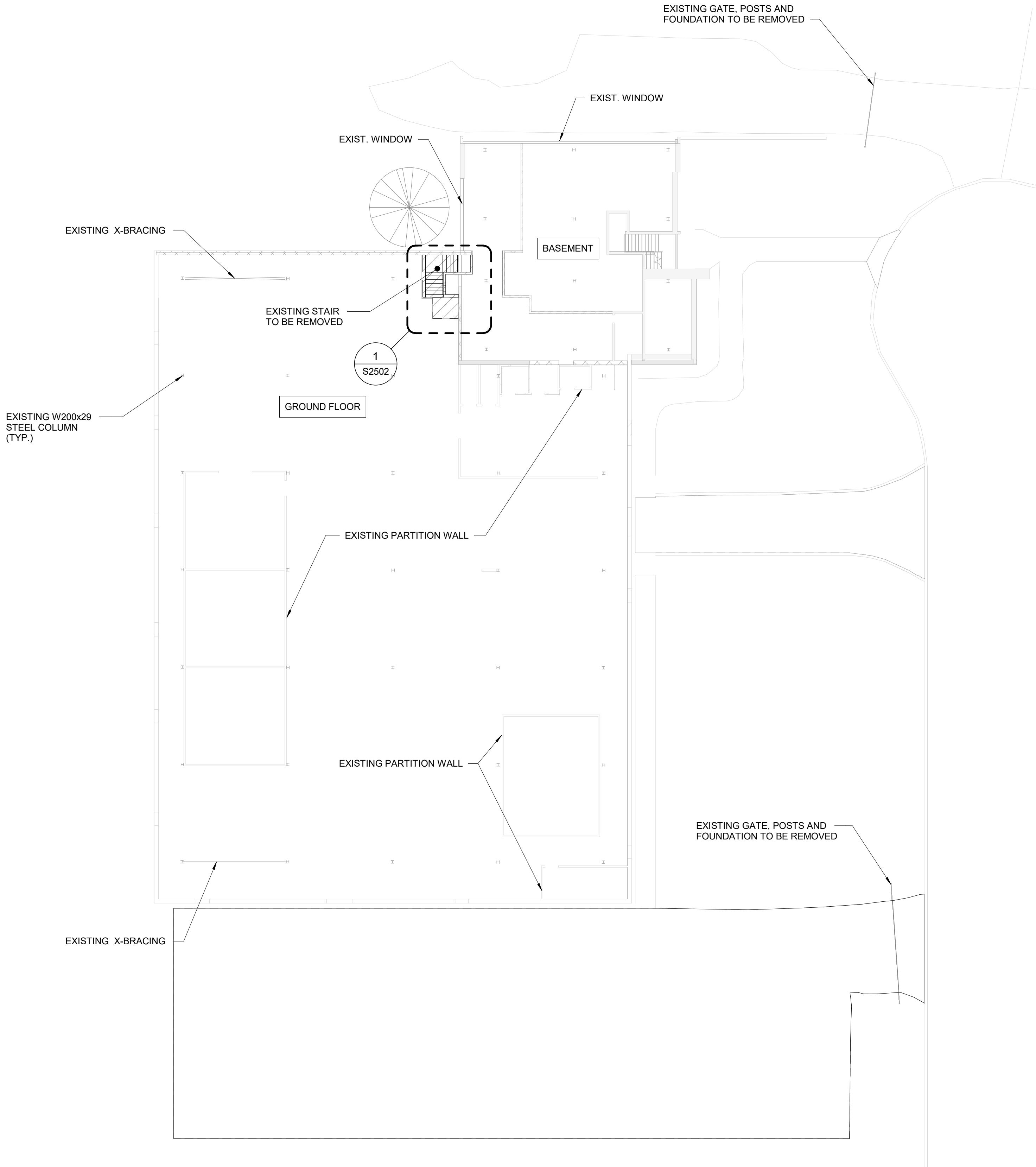
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**SITE PLAN**

SHEET NUMBER  
**G21-086-S1201**

ISSUE  
**G**



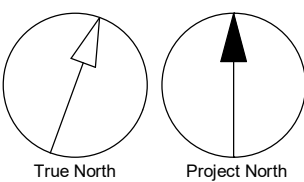
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1 DEMOLITION PLAN  
S2000 Scale: 1 : 200

WALL LEGEND:

- EXISTING BLOCK WALL
- EXISTING CONCRETE WALL
- TO BE DEMOLISHED BLOCK WALL
- TO BE DEMOLISHED CONCRETE WALL
- NEW BLOCK WALL
- NEW CONCRETE WALL
- EXISTING PARTITION WALL
- NEW PARTITION WALL
- TO BE DEMOLISHED PARTITION WALL



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**G. POULOU**

CHECKED BY:  
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PROJECT MGR:  
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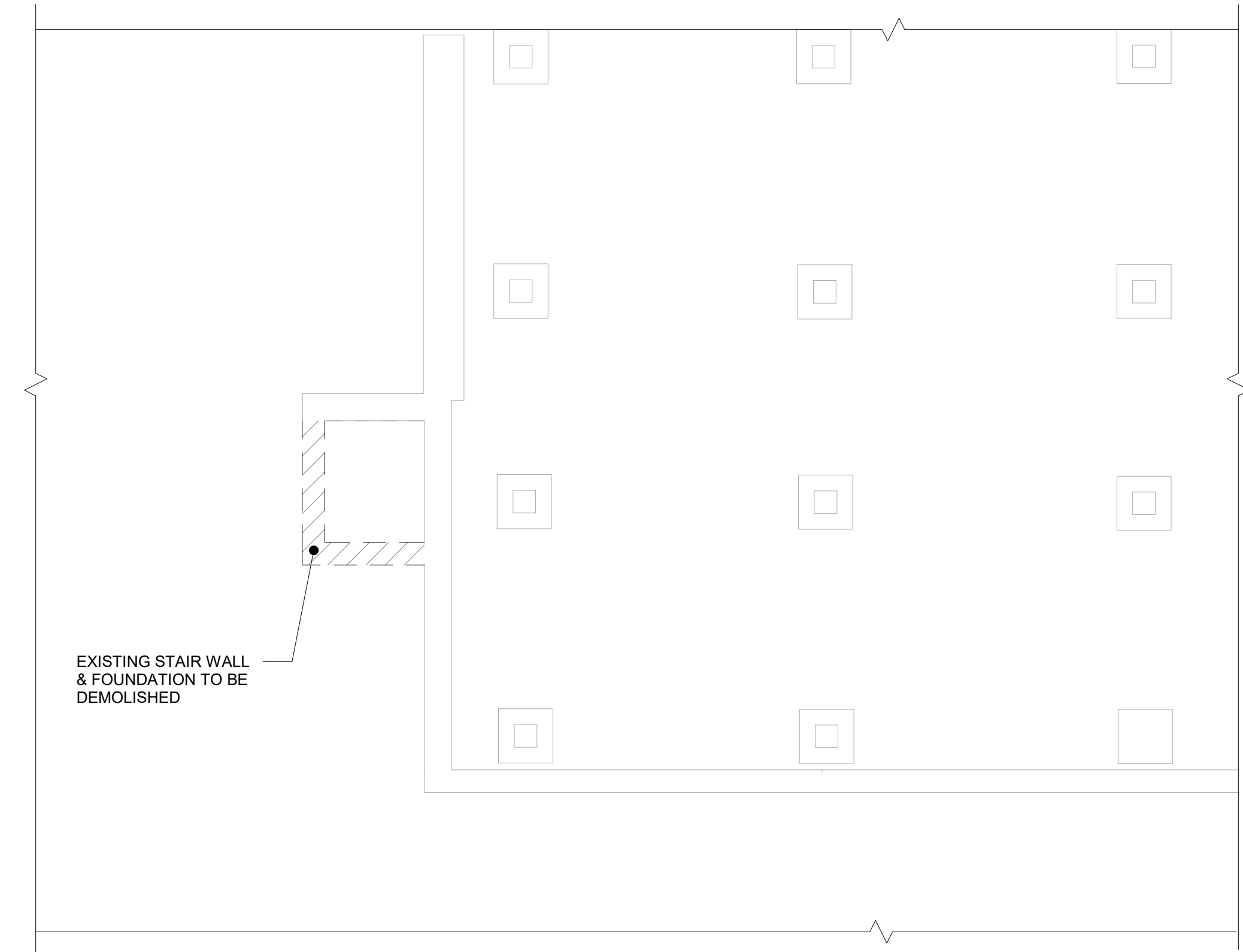
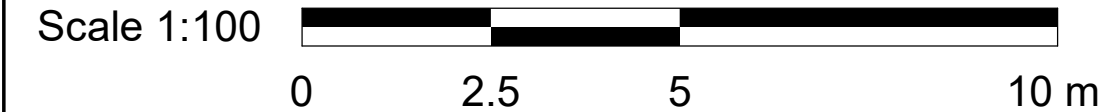
APPROVED BY:  
**K. ANGER**

SHEET TITLE  
**DEMOLITION PLAN**

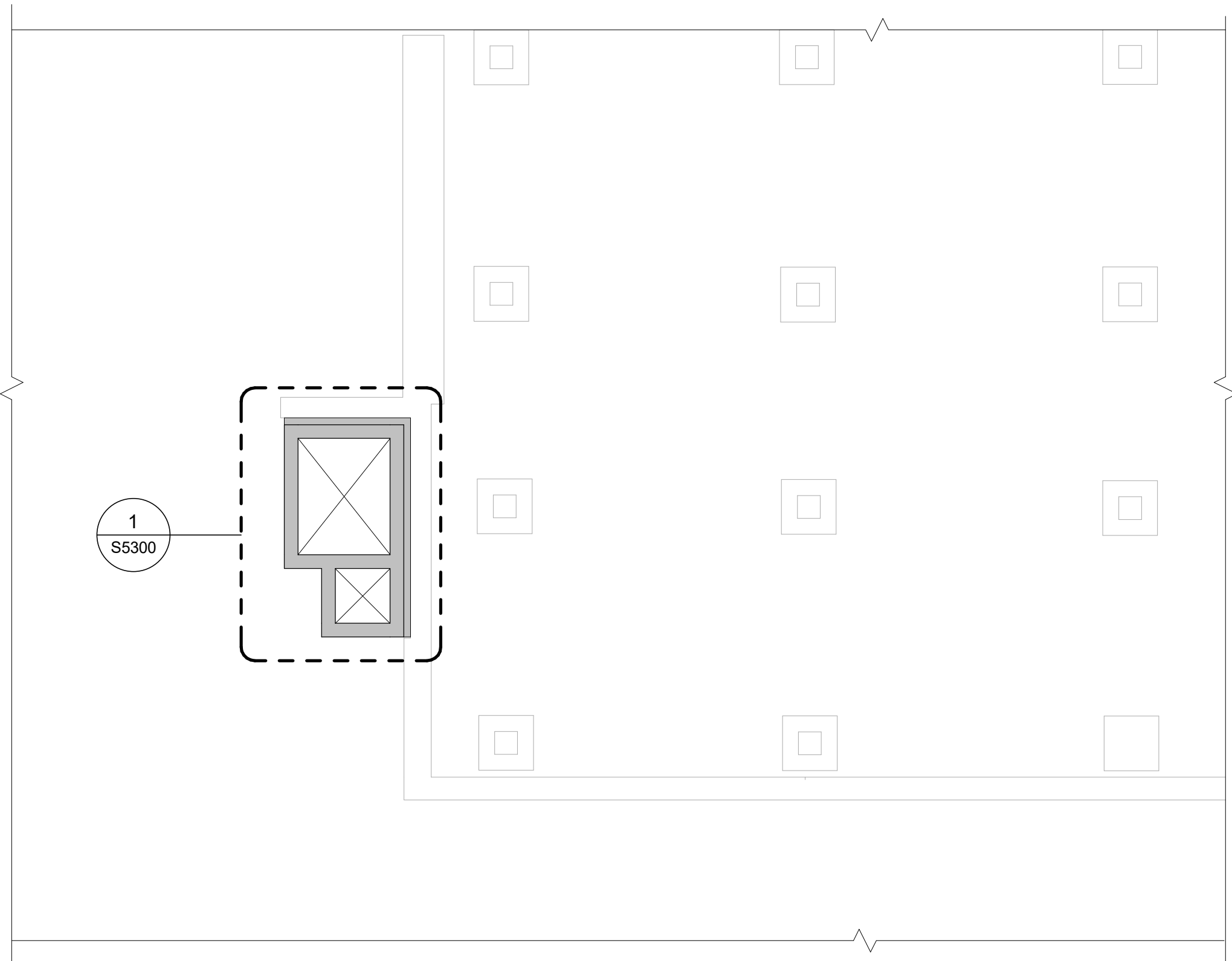
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ISSUE  
**G**

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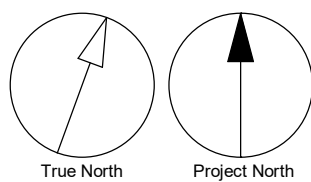
1 FOUNDATION PARTIAL FLOOR PLAN - DEMOLITION  
S2100 Scale: 1 : 100



2 FOUNDATION PARTIAL FLOOR PLAN - PROPOSED  
S2100 Scale: 1 : 100


- NOTES:**
- CONTRACTOR TO DETERMINE THE EXTENT OF EXCAVATION BASE ON THE REQUIRED SHORING DESING BY CONTRACTOR AND SEND FOR REVIEW TO ENGINEER.
  - CONTRACTOR TO DESIGN SHORING AND UNDERPINNING AND PLAN FOR ARCADIS REVIEW PRIOR TO ANY DEMOLITION WORK.
  - PROPOSED CONSTRUCTION STAGING SEE S2501

- WALL LEGEND:**
- EXISTING BLOCK WALL
  - EXISTING CONCRETE WALL
  - TO BE DEMOLISHED BLOCK WALL
  - TO BE DEMOLISHED CONCRETE WALL
  - NEW BLOCK WALL
  - NEW CONCRETE WALL
  - EXISTING PARTITION WALL
  - NEW PARTITION WALL
  - TO BE DEMOLISHED PARTITION WALL



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NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

PROJECT NO:

9119-19-0162 / IBI 122260

DRAWN BY:

G. POULOU

CHECKED BY:

M. SHEININ

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

K. ANGER

SHEET TITLE

FOUNDATION  
DEMOLITION &  
PROPOSED PLAN

SHEET NUMBER

G21-086-S2100

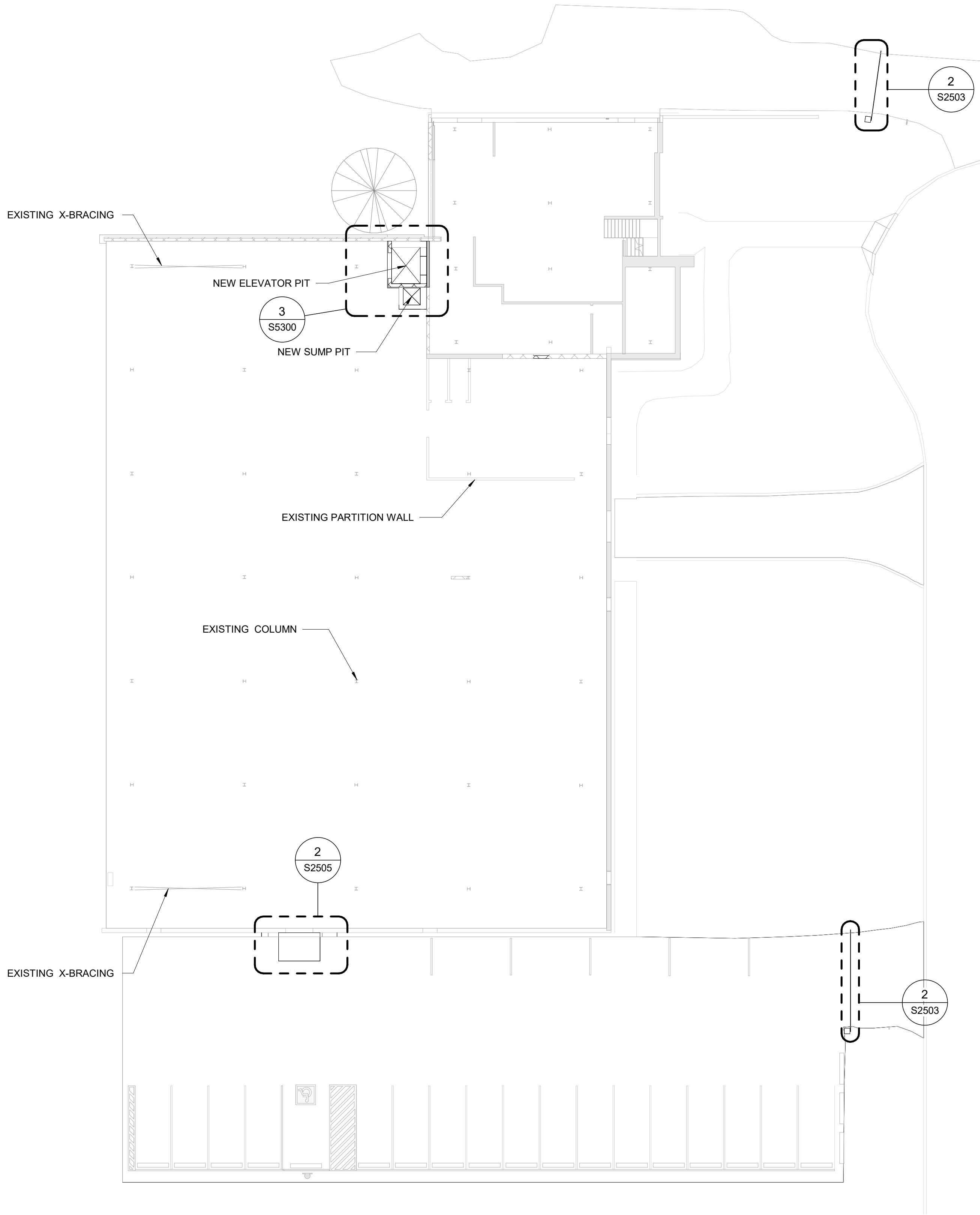
ISSUE

G

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1 GROUND LEVEL PLAN  
S2401 Scale: 1 : 200

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STATIONS  
160 RIVALDA RD

PROJECT NO: 9119-19-0162 / IBI 122260	
DRAWN BY: G. POULOU	CHECKED BY: M. SHEININ
PROJECT MGR: F. BOLOURIAN	APPROVED BY: K. ANGER

SHEET TITLE  
GROUND FLOOR PLAN

SHEET NUMBER G21-086-S2401	ISSUE G
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Autodesk Docs // 122260 - Cot TAU Upgrades R2024122260-TAU-S-66-160RVLDA-S-R20.rvt

10mm

SCALE CHECK  
1 m

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PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260










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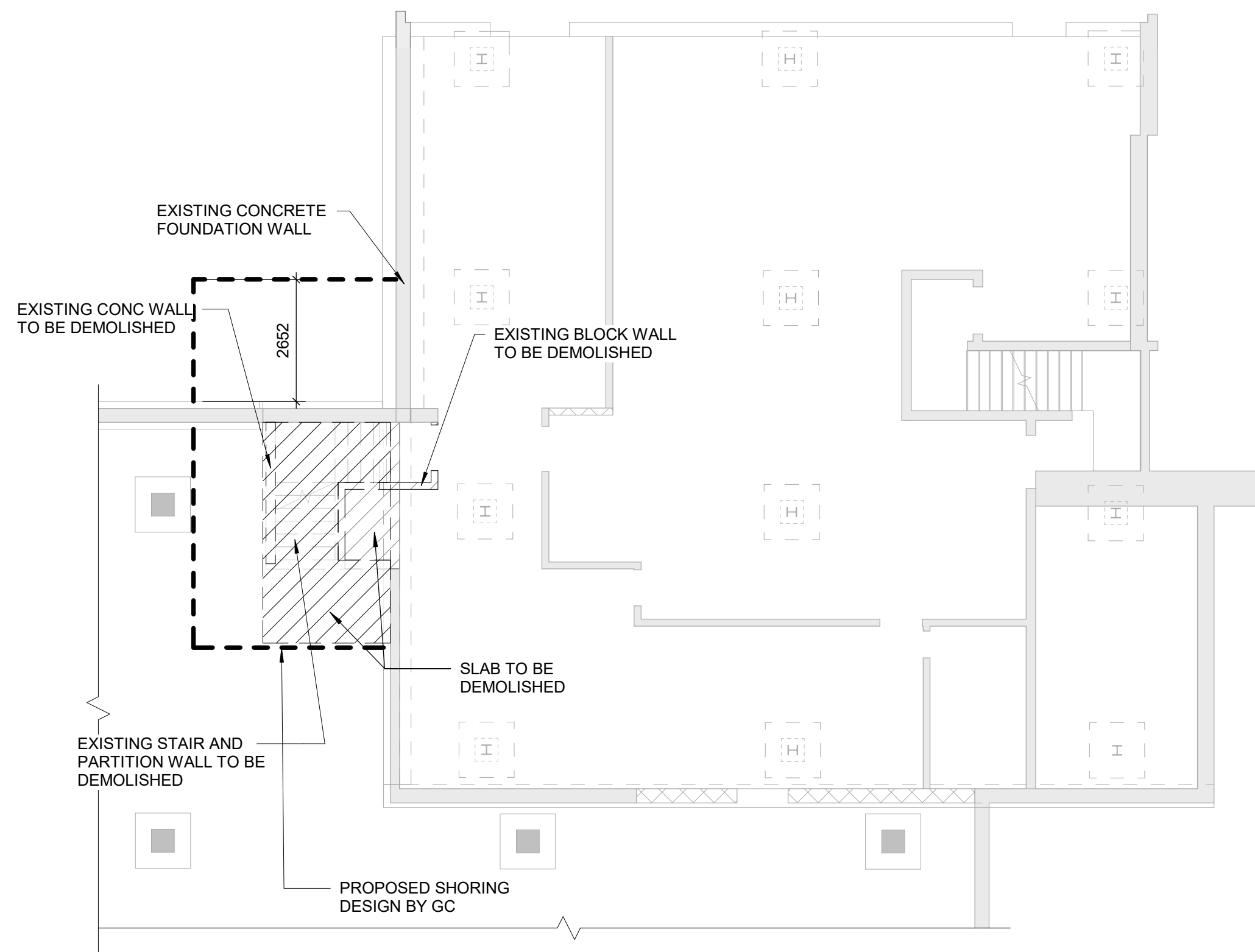
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>K. ANGER</b>
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SHEET TITLE  
**BASEMENT DEMOLITION  
& PROPOSED PLAN**

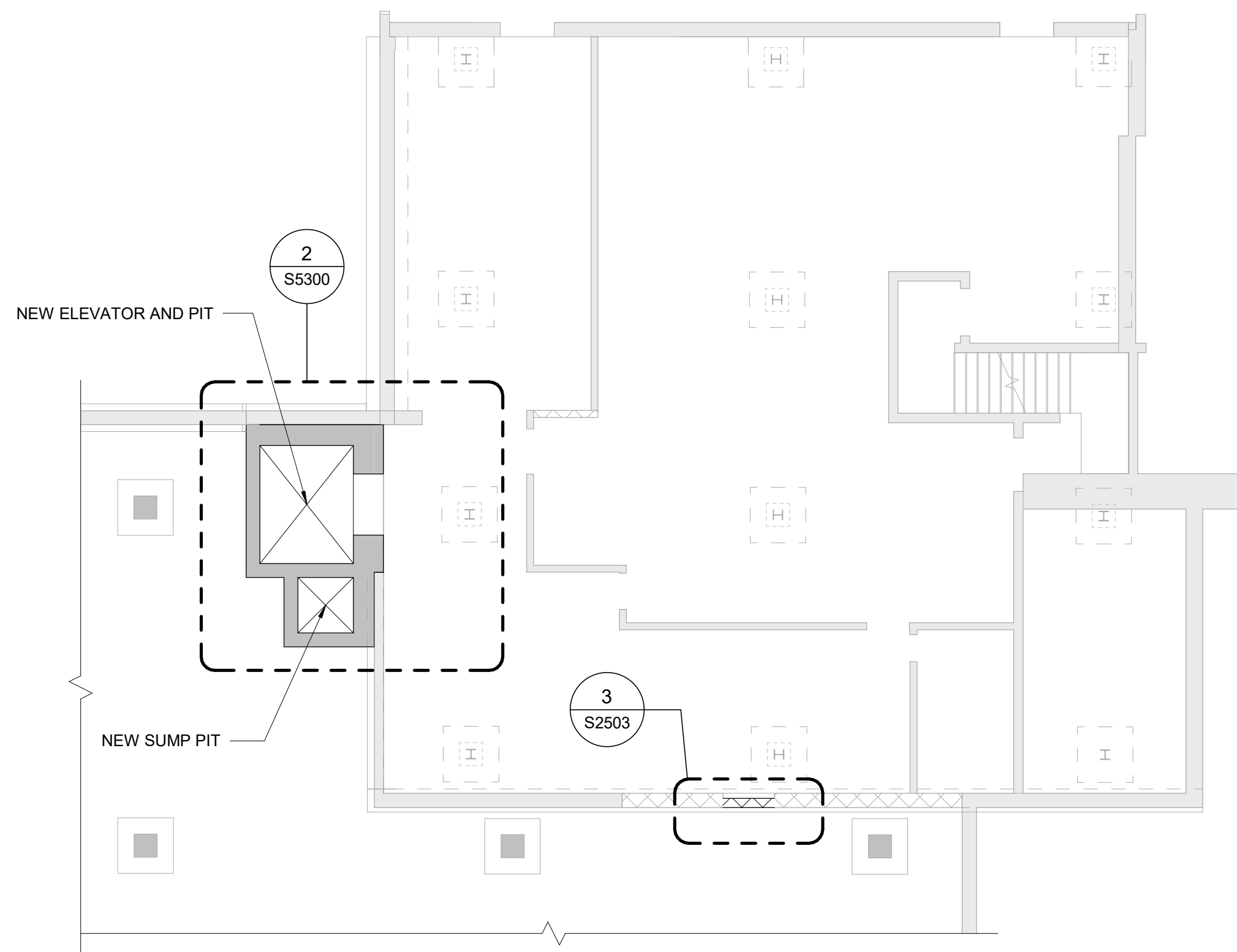
SHEET NUMBER <b>G21-086-S2500</b>	ISSUE <b>G</b>
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**WALL LEGEND:**

-  EXISTING BLOCK WALL
-  EXISTING CONCRETE WALL
-  TO BE DEMOLISHED BLOCK WALL
-  TO BE DEMOLISHED CONCRETE WALL
-  NEW BLOCK WALL
-  NEW CONCRETE WALL
-  EXISTING PARTITION WALL
-  NEW PARTITION WALL
-  TO BE DEMOLISHED PARTITION WALL

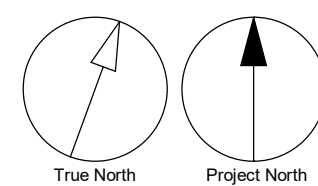


**1 BASEMENT PARTIAL FLOOR PLAN - DEMOLITION**  
S2500 Scale: 1 : 100



**2 BASEMENT PARTIAL FLOOR PLAN - PROPOSED**  
S2500 Scale: 1 : 100

Scale 1:50  
0 1 2.5 5 m





**PROPOSED DEMOLITION STAGING.**

**STAGE 1**

1. INSTALLING SHORING AND EXCAVATION IN AREA 1.
2. UNDERPIN FOUNDATION AT AREA 1.

**STAGE 2**

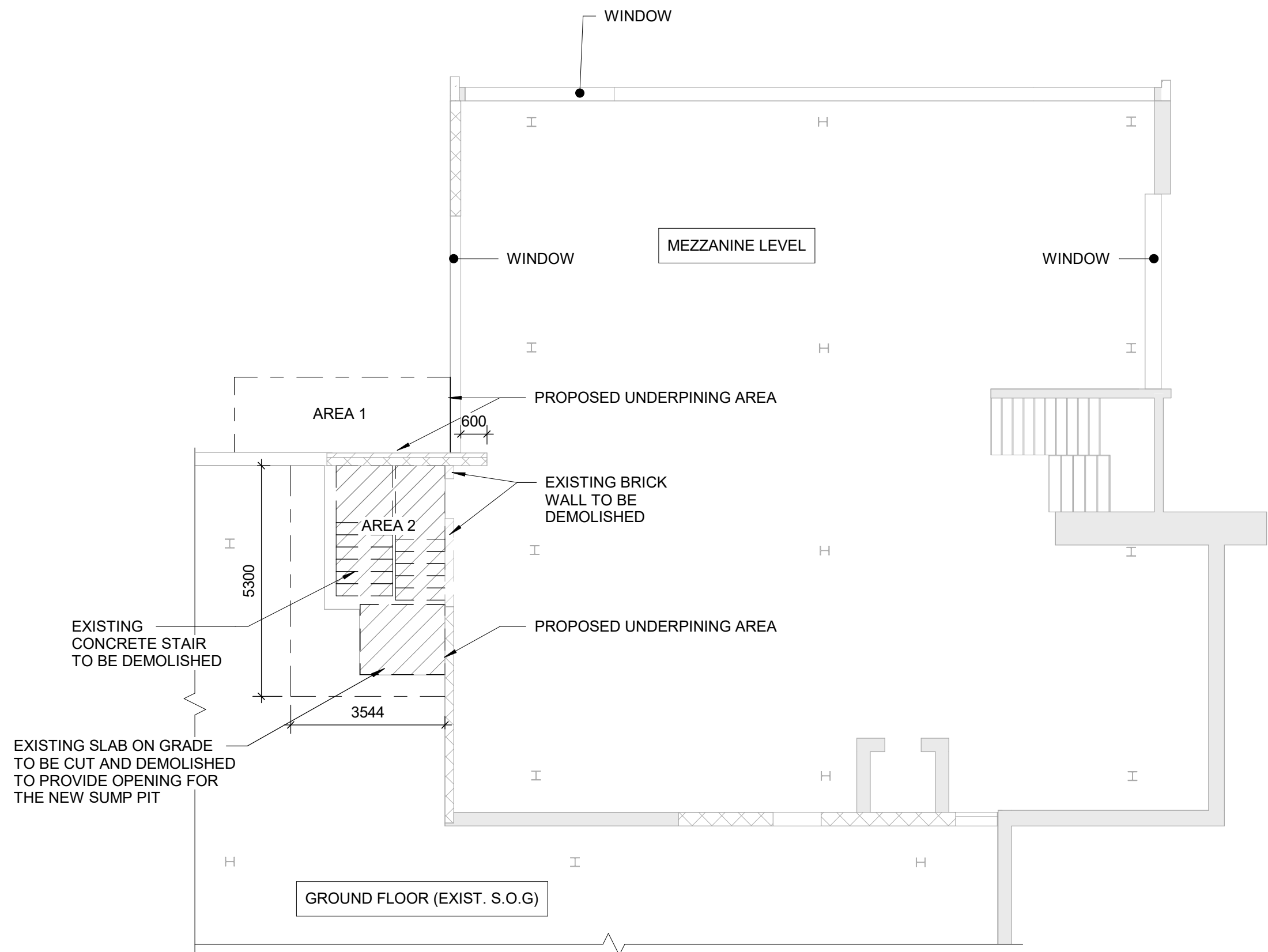
1. INSTALLING SHORING AT AREA 2
2. DEMOLISH AND EXCAVATION.
3. UNDERPIN FOUNDATION AT AREA 2.
4. BUILD ELEVATOR CONCRETE PIT.
5. BACK FILL AREA 1.

**STAGE 3**

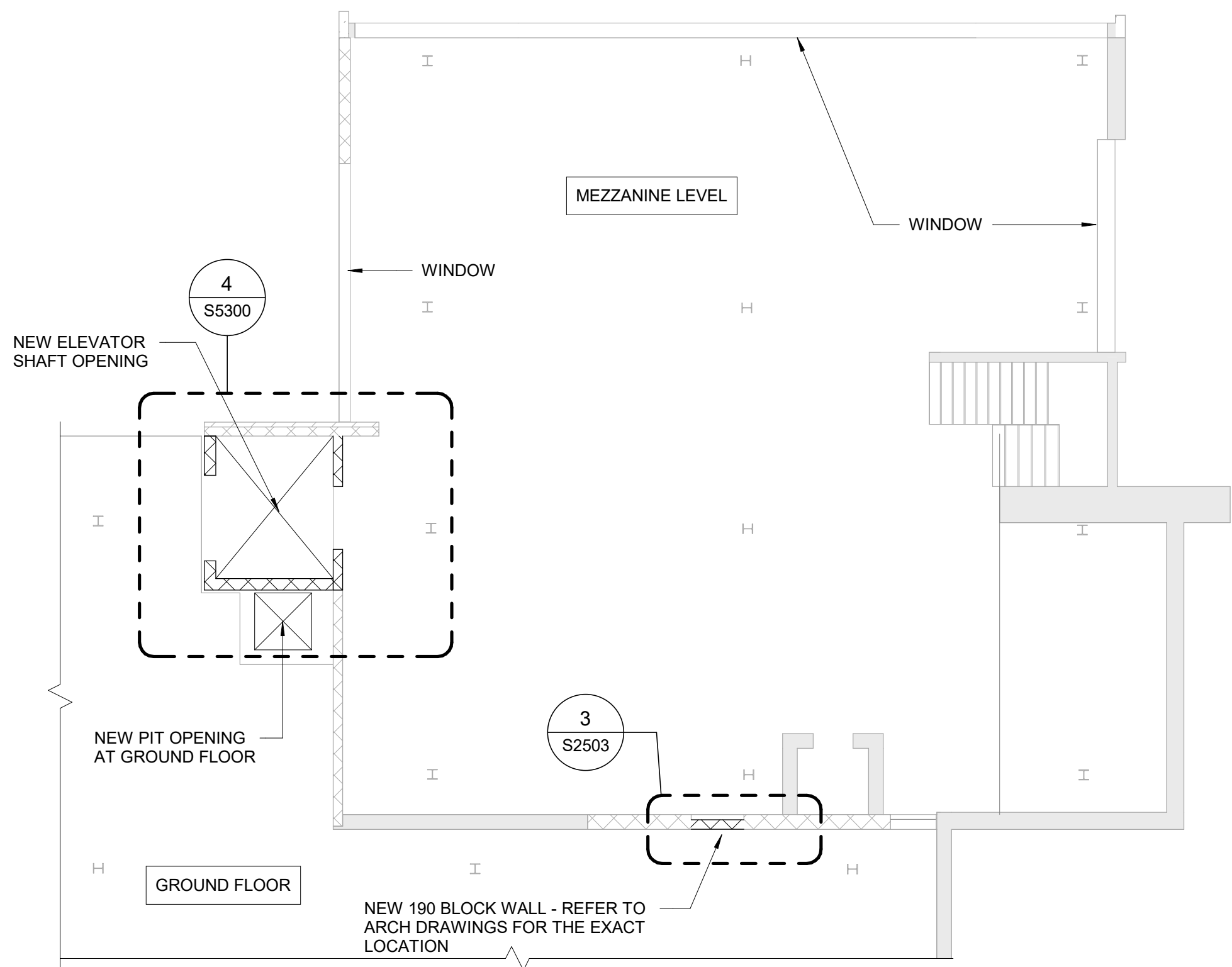
1. INSTALL SHORING FOR THE NEW ROOF OPENINGS.
2. BUILD NEW SHAFT WALL.
3. CUT NEW ROOF OPENINGS.
4. FINISH SHAFT WALLS
5. CUT NEW WALL OPENINGS AT THE EXISTING WALLS.
6. FINISH SHAFT.
7. REMOVE SHORING.

**WALL LEGEND:**

- EXISTING BLOCK WALL  
EXISTING CONCRETE WALL  
TO BE DEMOLISHED BLOCK WALL  
TO BE DEMOLISHED CONCRETE WALL  
NEW BLOCK WALL  
NEW CONCRETE WALL  
EXISTING PARTITION WALL  
NEW PARTITION WALL  
TO BE DEMOLISHED PARTITION WALL



**1** MEZZANINE LEVEL PARTIAL FLOOR PLAN - DEMOLITION  
S2501 Scale: 1 : 100



**2** MEZZANINE LEVEL PARTIAL FLOOR PLAN - PROPOSED  
S2501 Scale: 1 : 100

**NOTES:**

1. CONTRACTOR TO DETERMINE THE EXTENT OF EXCAVATION REQUIRED AND REPORT TO ENGINEER.
2. ACCOUNT FOR DEMOLITION TO OPEN EXCAVATION.
3. CONTRACTOR TO SCAN EXISTING CONCRETE FOR REINFORCMENT DATA PRIOR TO ANY CONSTRUCTION WORK.
4. CONTRACTOR TO PROVIDE SHORING AND UNDERPINNING PLAN FOR STRUCTURAL ENGINEER REVIEW PRIOR TO ANY DEMOLITION WORK.
5. CONTRACTOR TO CONFIRM IF WALLS ARE LOAD BEARING AND REPORT TO STRUCTURAL ENGINEER PRIOR TO ANY DEMOLITION WORK.
6. CONTRACTOR TO LOCATE EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR DEMOLITION WORK AND NOTIFY STRUCTURAL ENGINEER IF ANY CONFLICT EXIST.
7. THERE ARE NO AS-BUILT DRAWINGS AVAILABLE FOR THIS BUILDING. CONTRACTOR TO LOCATE EXISTING FOUNDATION WALLS, FOOTINGS, SLABS AND REINFORCEMENT. NOTIFY ARCADIS STRUCTURAL ENGINEER WITH FINDINGS FOR REVIEWAL AND APPROVAL PRIOR TO ANY CONSTRUCTION WORKS

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**CITY OF TORONTO  
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**PROJECT ADDRESS**

**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

**PROJECT NO:**

9119-19-0162 / IBI 122260

**DRAWN BY:**

**G. POULOU**

**CHECKED BY:**

**M. SHEININ**

**PROJECT MGR:**

**F. BOLOURIAN**

**APPROVED BY:**

**K. ANGER**

**SHEET TITLE**

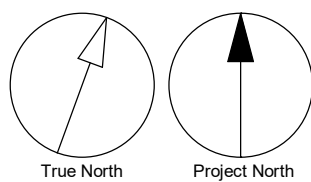
**MEZZANINE LEVEL  
DEMOLITION &  
PROPOSED PLAN**

**SHEET NUMBER**

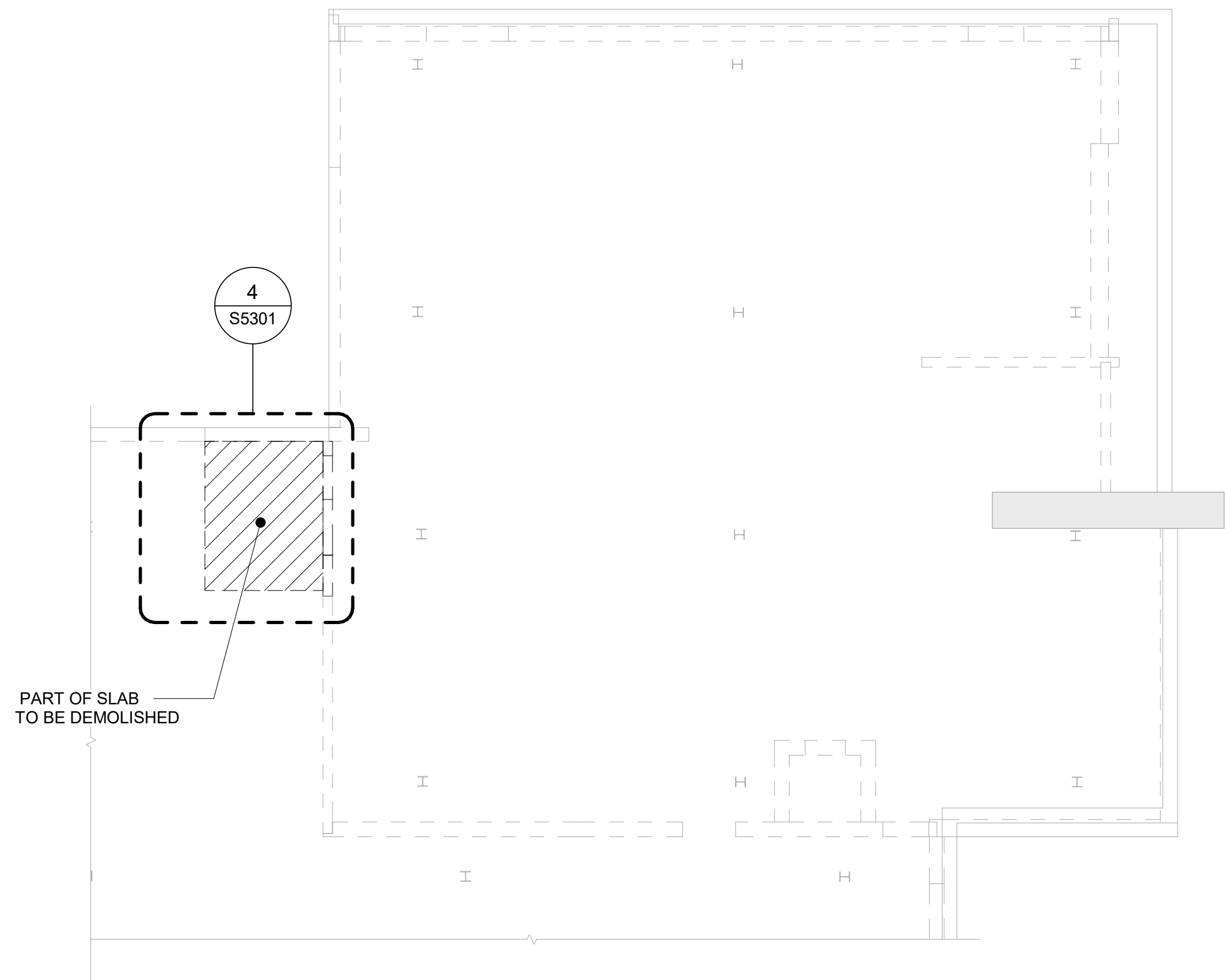
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**ISSUE**

**G**



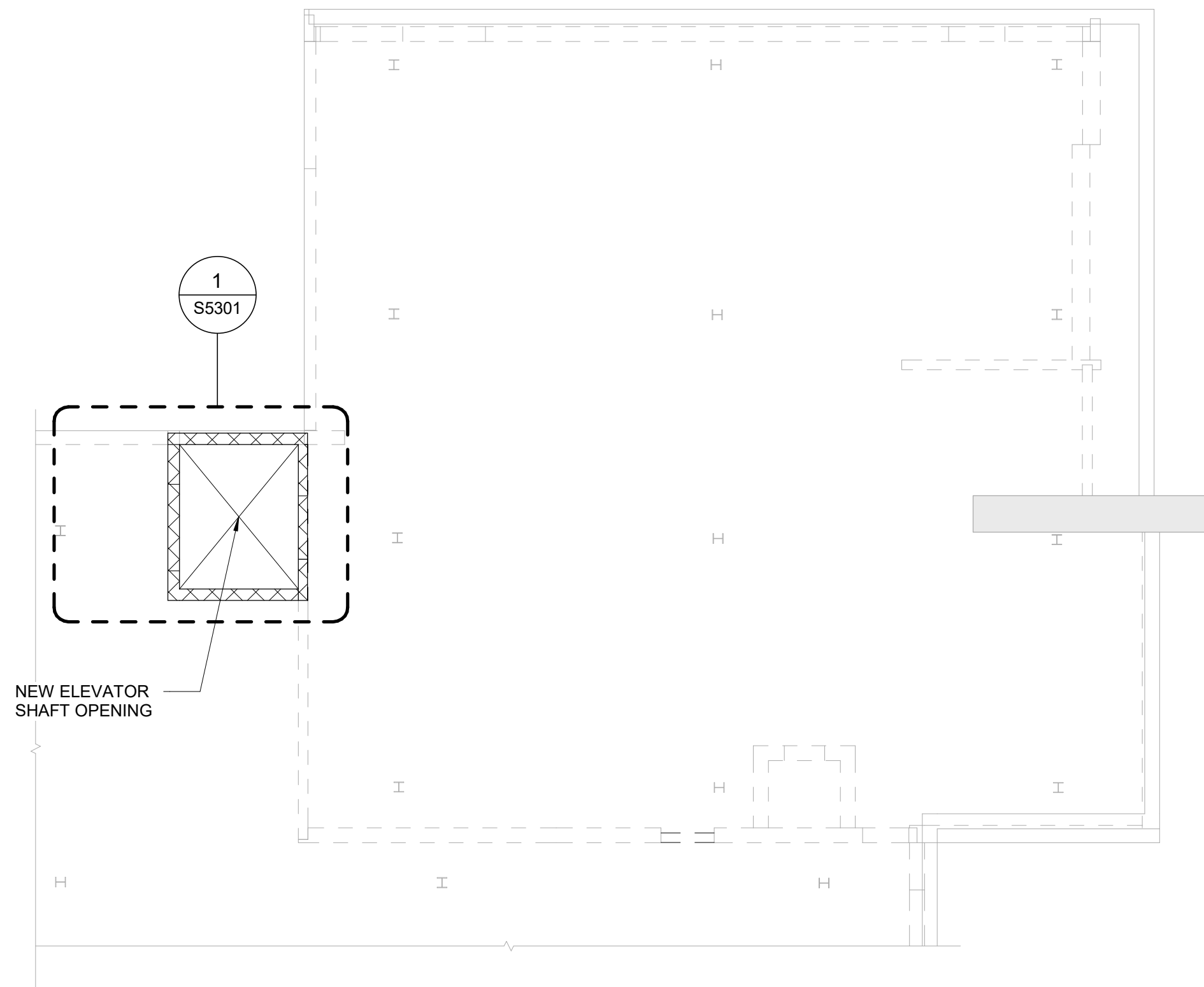
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1 ROOF LEVEL PARTIAL FLOOR PLAN - DEMOLITION  
S2502 Scale: 1 : 100

**NOTES:**

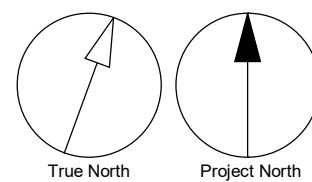
1. CONTRACTOR TO SCAN EXISTING CONCRETE FOR REINFORCEMENT DATA PRIOR TO ANY CONSTRUCTION WORK.
2. CONTRACTOR TO DESIGN AND PROVIDE SHORING BEFORE CUTTING THE ROOF.
3. CONTRACTOR TO REPORT REINFORCEMENT LOCATION AND SPACING BEFORE REMOVING THE ROOF.



2 ROOF LEVEL PARTIAL FLOOR PLAN -PROPOSED  
S2502 Scale: 1 : 100

**WALL LEGEND:**

- EXISTING BLOCK WALL
- EXISTING CONCRETE WALL
- TO BE DEMOLISHED BLOCK WALL
- TO BE DEMOLISHED CONCRETE WALL
- NEW BLOCK WALL
- NEW CONCRETE WALL
- EXISTING PARTITION WALL
- NEW PARTITION WALL
- TO BE DEMOLISHED PARTITION WALL



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STATIONS  
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9119-19-0162 / IBI 122260

DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**M. SHEININ**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

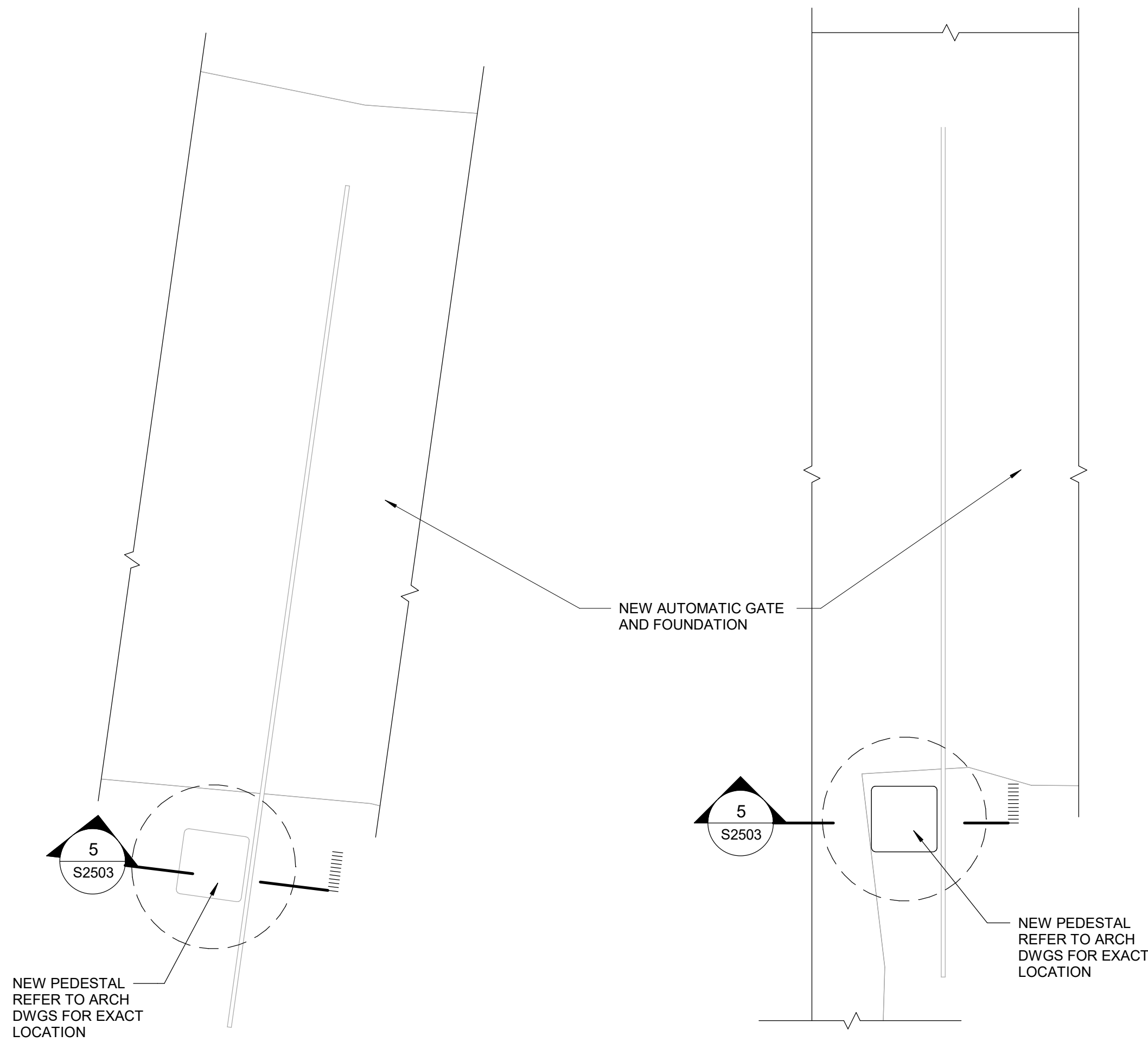
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**ROOF DEMOLITION &  
PROPOSED PLAN**

SHEET NUMBER  
**G21-086-S2502**

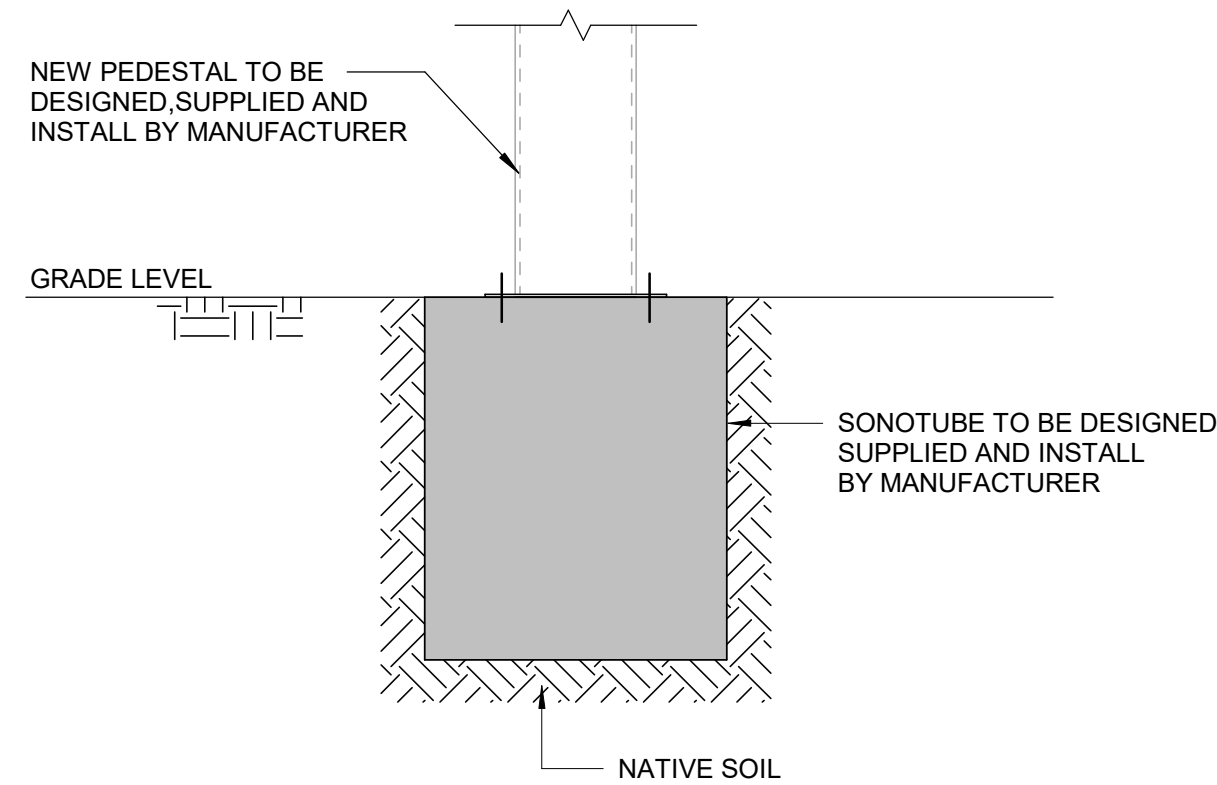
ISSUE  
**G**

Autodesk Docs // 122260 - Cot TAU Upgrades R2024/122260-TAU-S-86-160RVALDA-S-R20.rvt 1/10m 1/1m





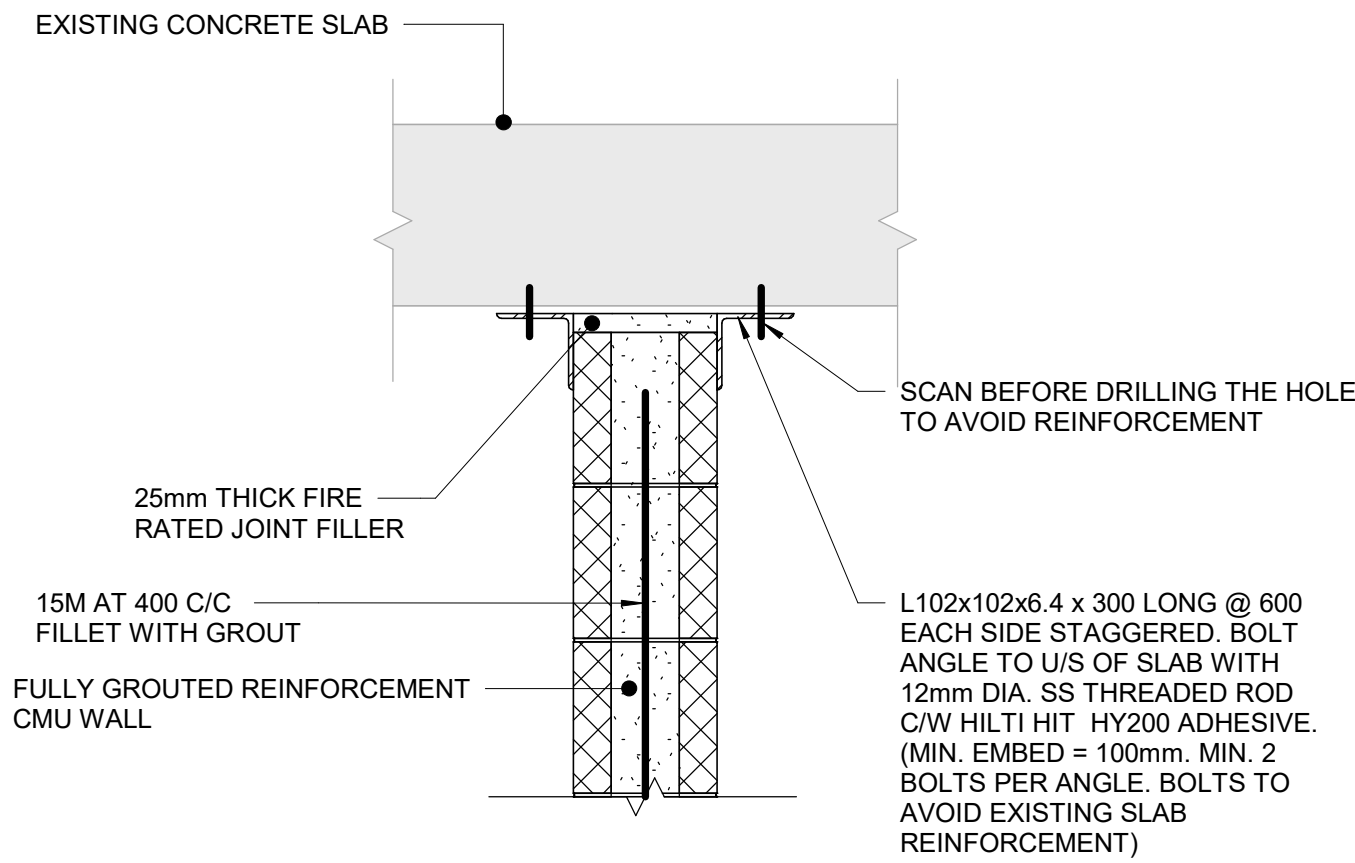
2 DRIVEWAY GATES AND PEDESTAL ENLARGED PLAN  
S2503 Scale: 1 : 25



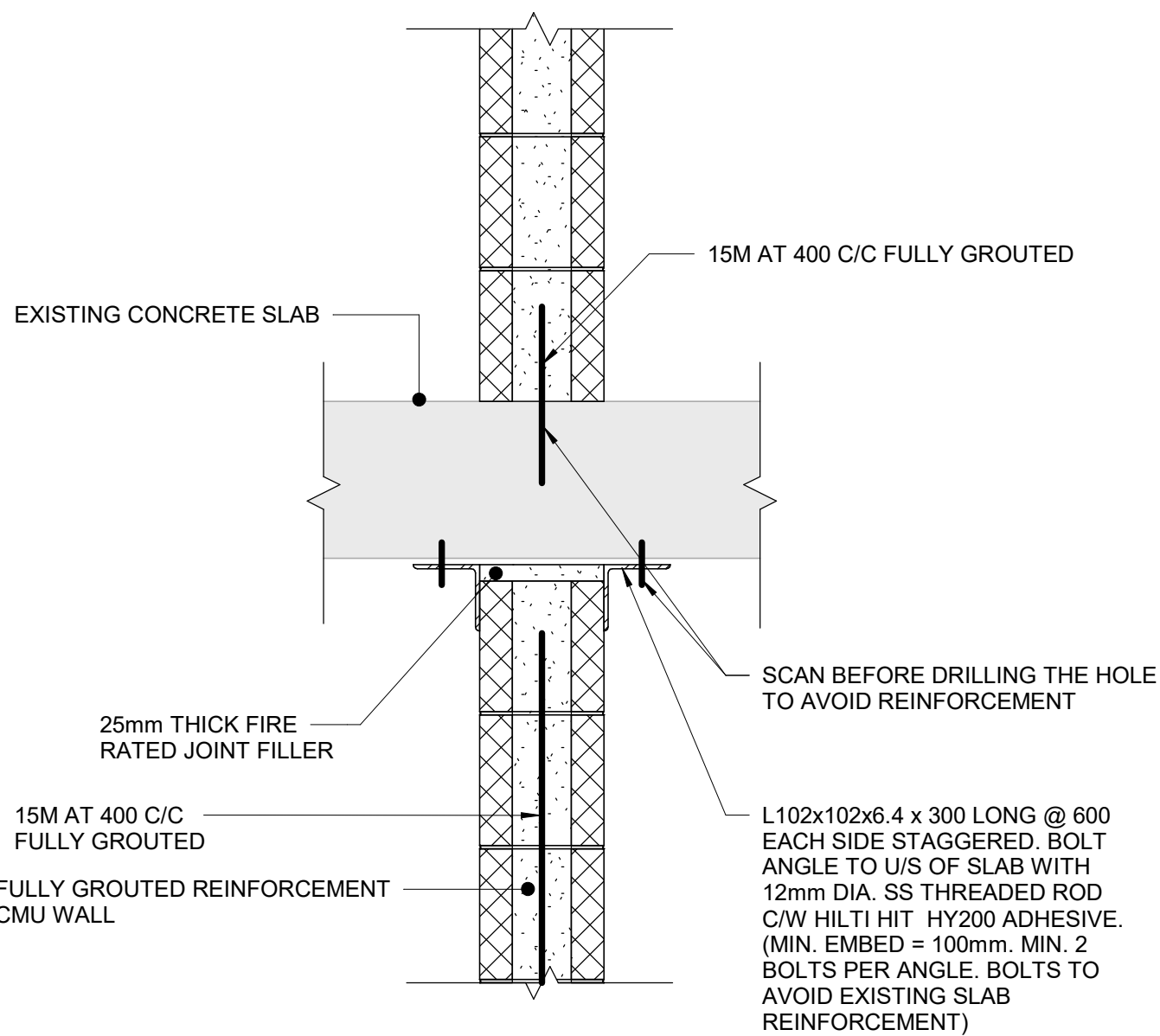
NOTE:

- FOR THE BASE PLATE SIZE AND PEDESTAL INFORMATION REFER TO ARCH AND MANUFACTURER DRAWINGS.

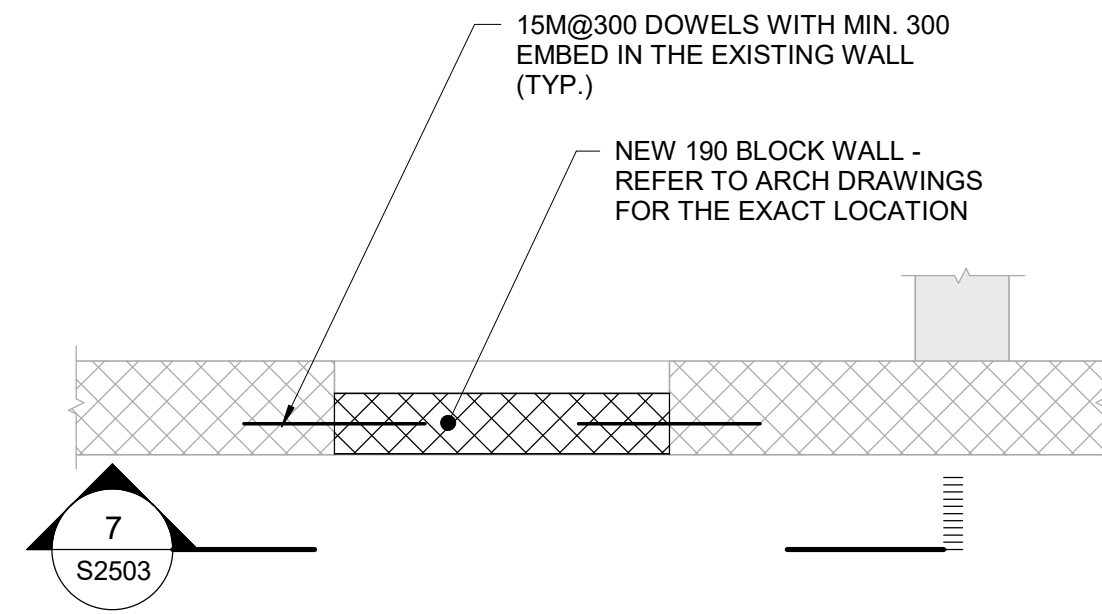
5 NEW PEDESTAL SECTION  
S2503 Scale: 1 : 25



8 SECTION  
S2503 Scale: 1 : 10



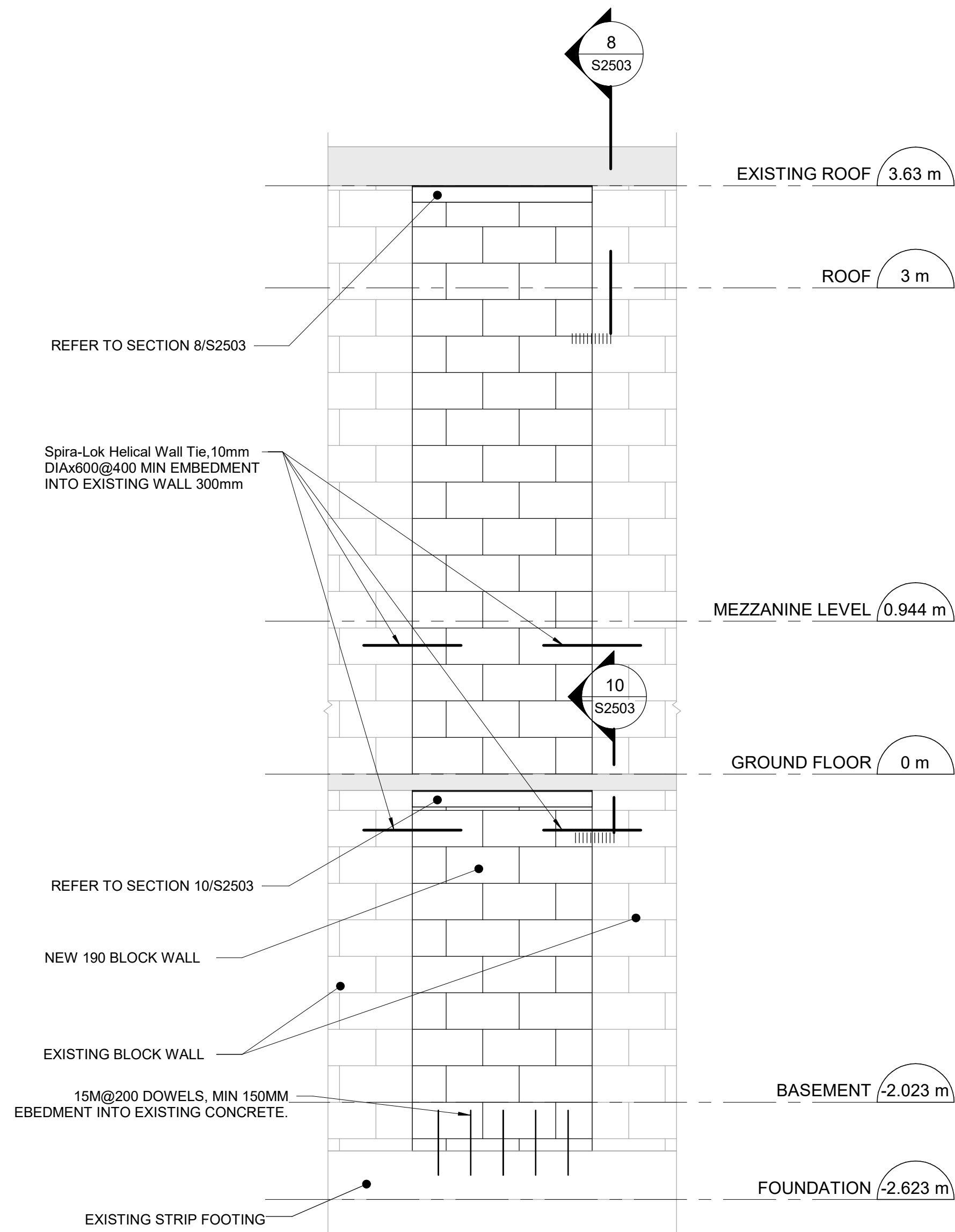
10 SECTION  
S2503 Scale: 1 : 10



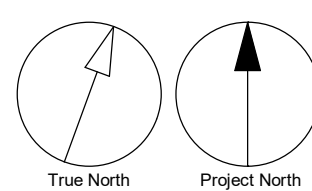
3 UPPER LEVEL PARTIAL FLOOR PLAN - PROPOSED PARTION WALL INFILL  
S2503 Scale: 1 : 25

NOTE:

- GC TO VERIFY THE WALL IS NOT LOAD-BEARING AND NOTIFY ARCADIS PRIOR TO ANY CONSTRUCTION



7 SECTION  
S2503 Scale: 1 : 25



Scale 1:100 0 2.5 5 10 m

ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-18
B	90% SUBMISSION	2022-03-04
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2024-04-30
E	RE-ISSUED FOR PERMIT	2024-06-12
F	RE-ISSUED FOR PERMIT	2024-09-05
G	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
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ACCESSIBILITY UPGRADES**

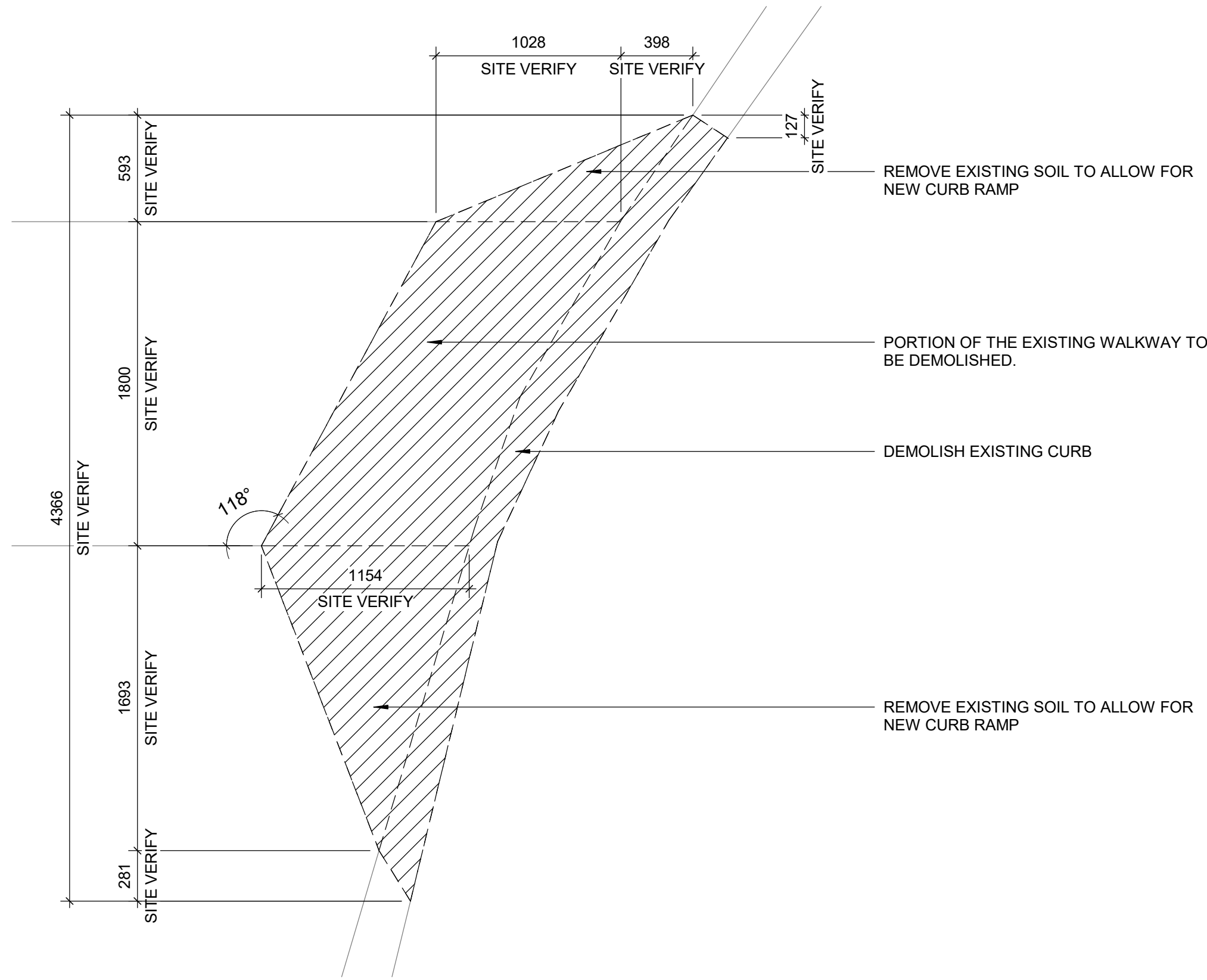
PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

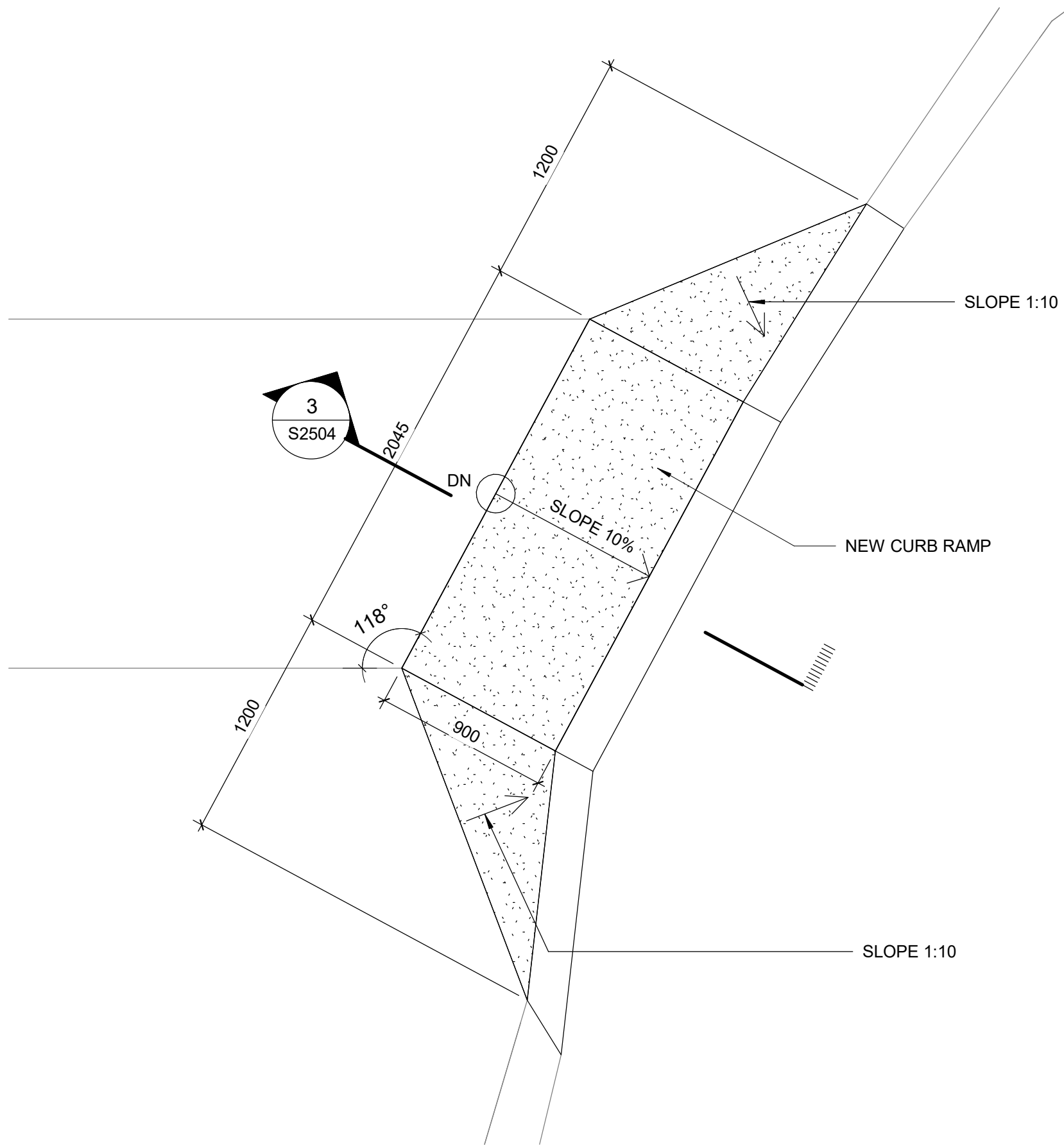
DRAWN BY: <b>G. POULOU</b>	CHECKED BY: <b>M. SHEININ</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>K. ANGER</b>

SHEET TITLE  
**DRIVEWAY GATES AND  
PEDESTAL PLANS &  
DETAILS**

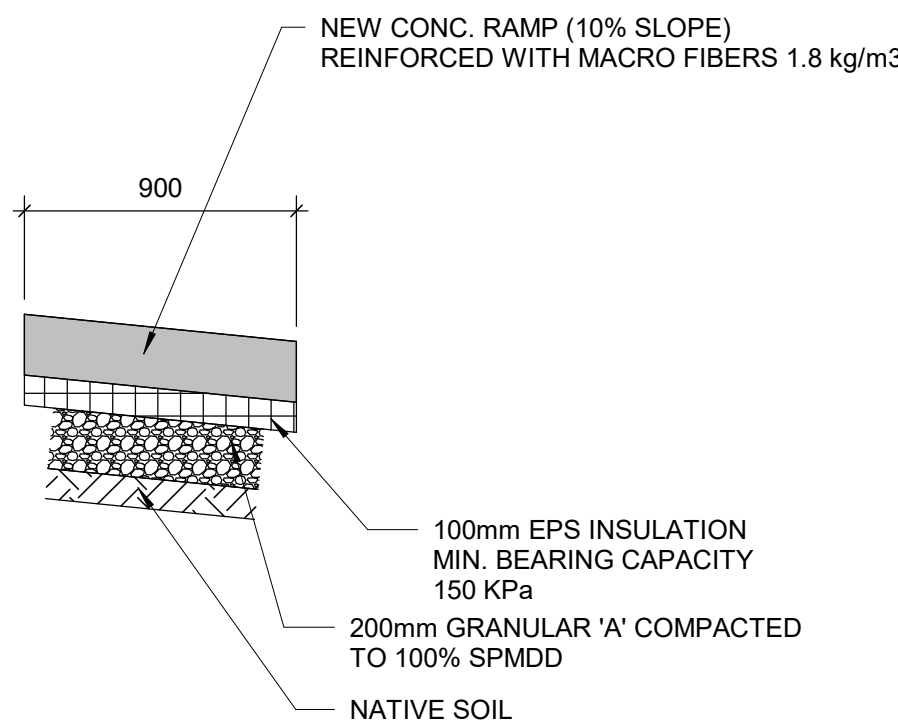
SHEET NUMBER <b>G21-086-S2503</b>	ISSUE <b>G</b>
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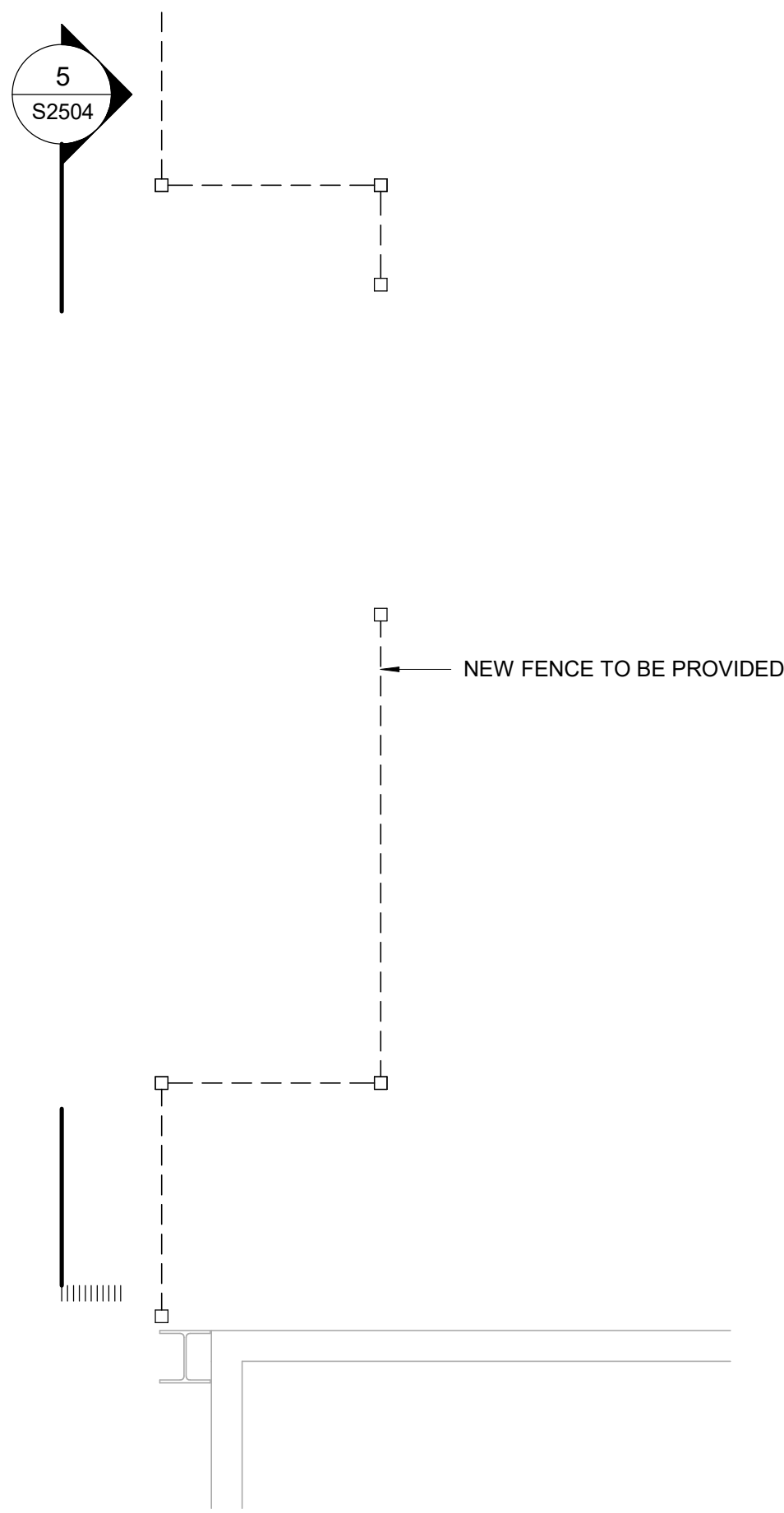
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S2504  
EXISTING WALKWAY DEMOLITION PLAN  
Scale: 1 : 25



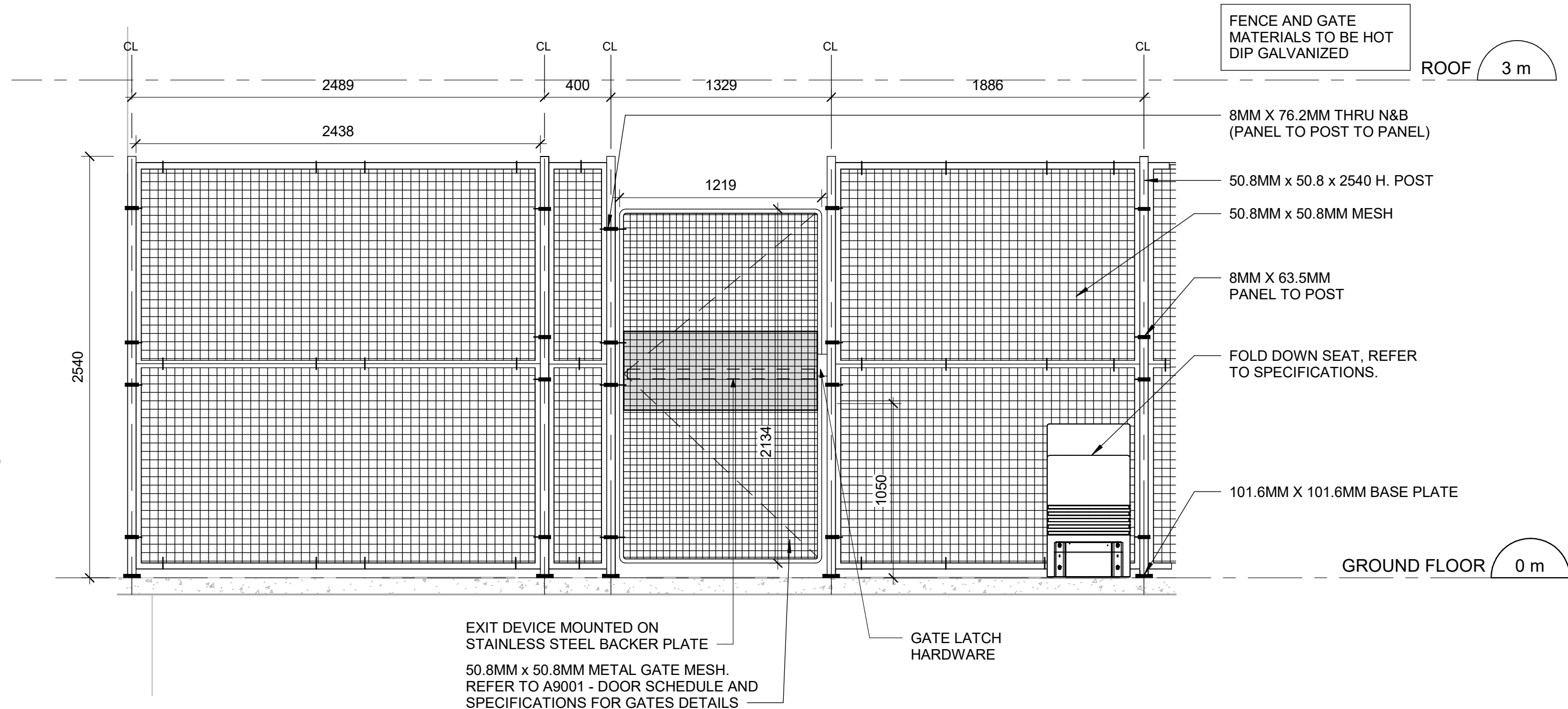
2  
S2504  
ENLARGED SITE PLAN - NEW CURB RAMP  
Scale: 1 : 25



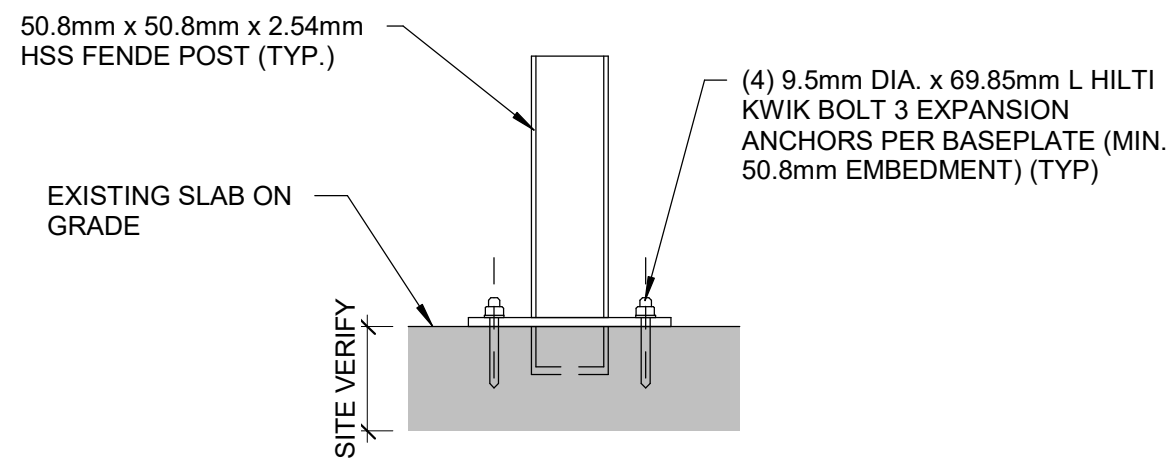
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S2504  
SECTION  
Scale: 1 : 25



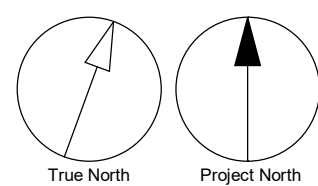
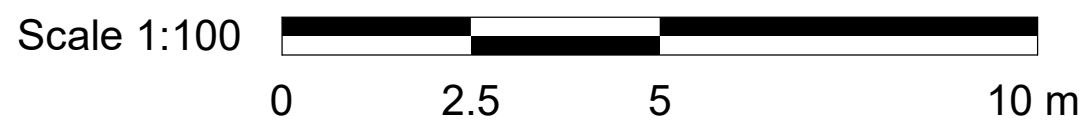
4  
S2504  
FIRST FLOOR PARTIAL PLAN-PROPOSED  
Scale: 1 : 25



5  
S2504  
SECTION  
Scale: 1 : 25



6  
S2504  
SECTION  
Scale: 1 : 10



ISSUES		
No.	DESCRIPTION	DATE
A	100% SUBMISSION	2024-04-30
B	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**M. SHEININ**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

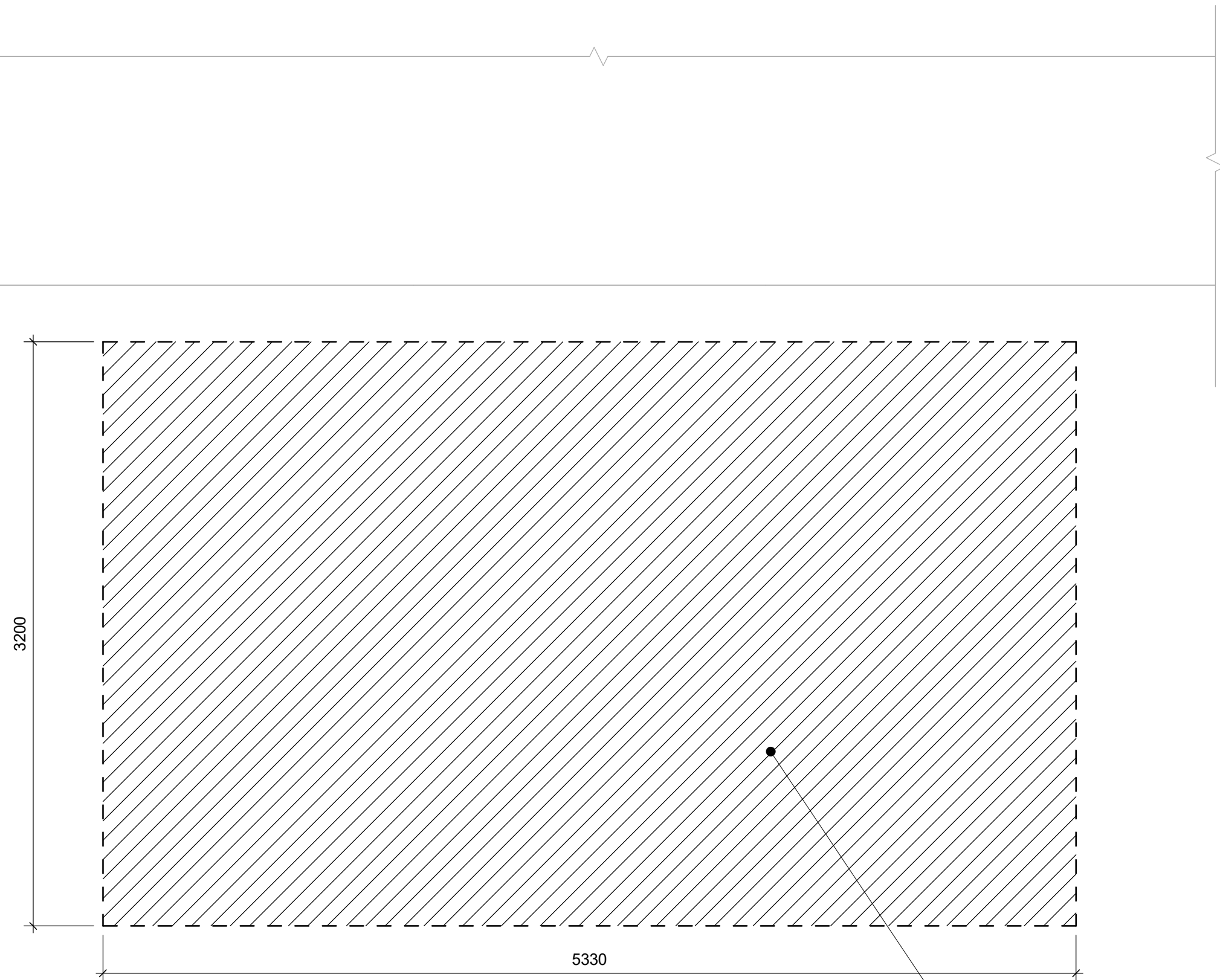
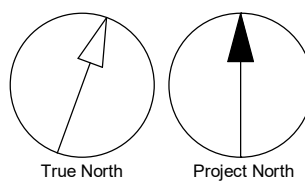
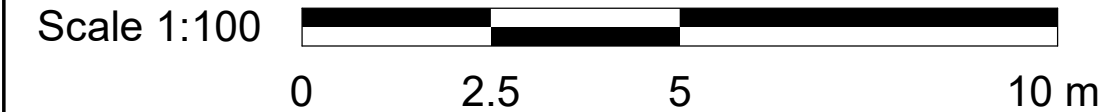
SHEET TITLE  
**EXTERIOR RAMP  
ENLARGED PLAN &  
DETAIL**

SHEET NUMBER  
**G21-086-S2504**

ISSUE  
**B**

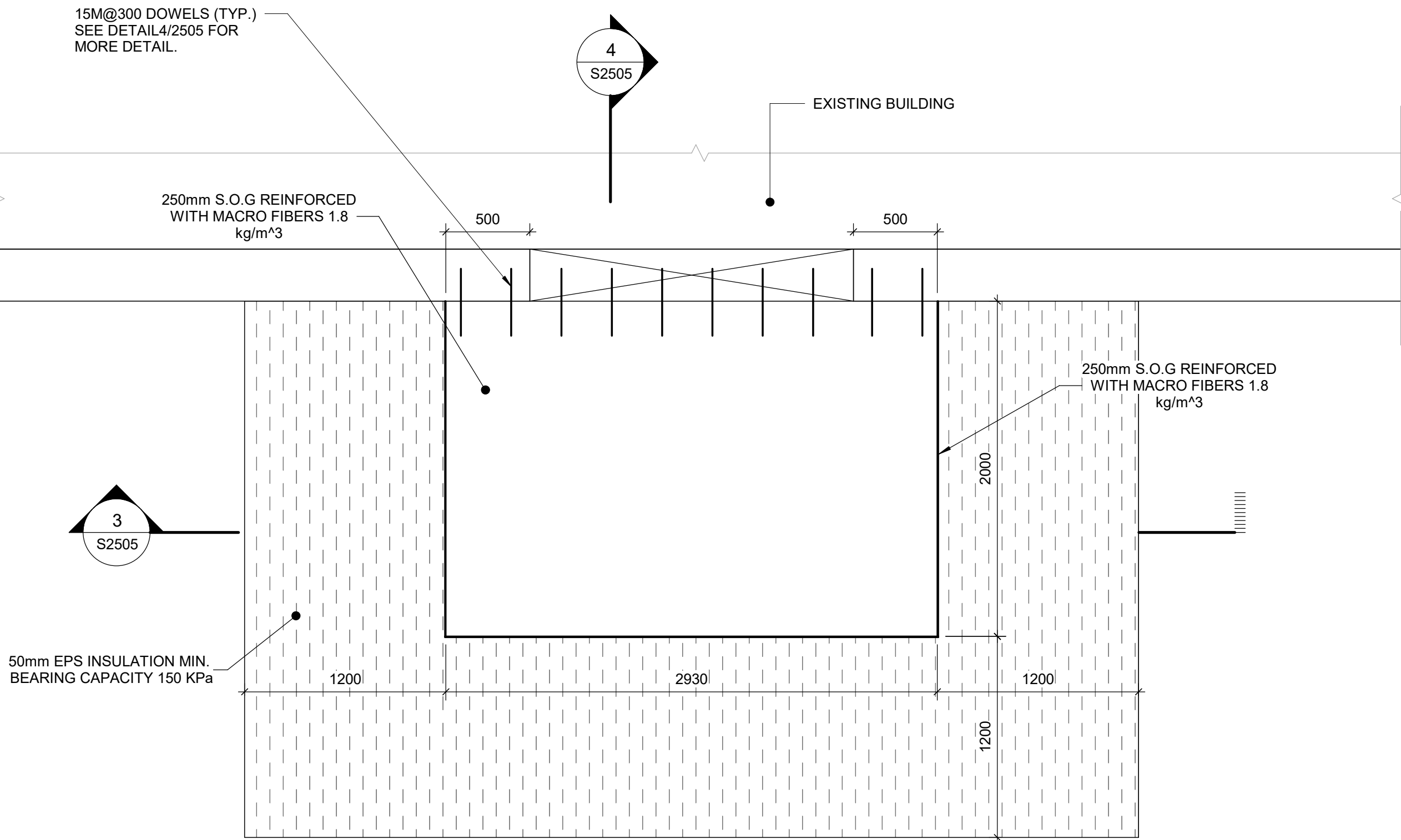


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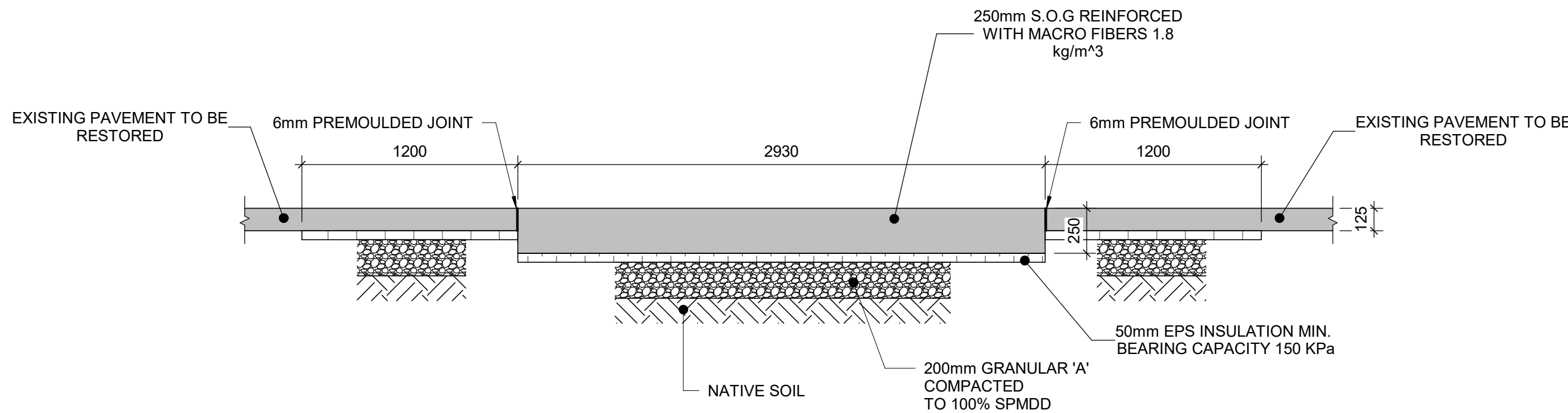


1 MAIN ENTRANCE - EXTERIOR SLAB DEMOLITION PLAN  
S2505 / Scale: 1 : 25

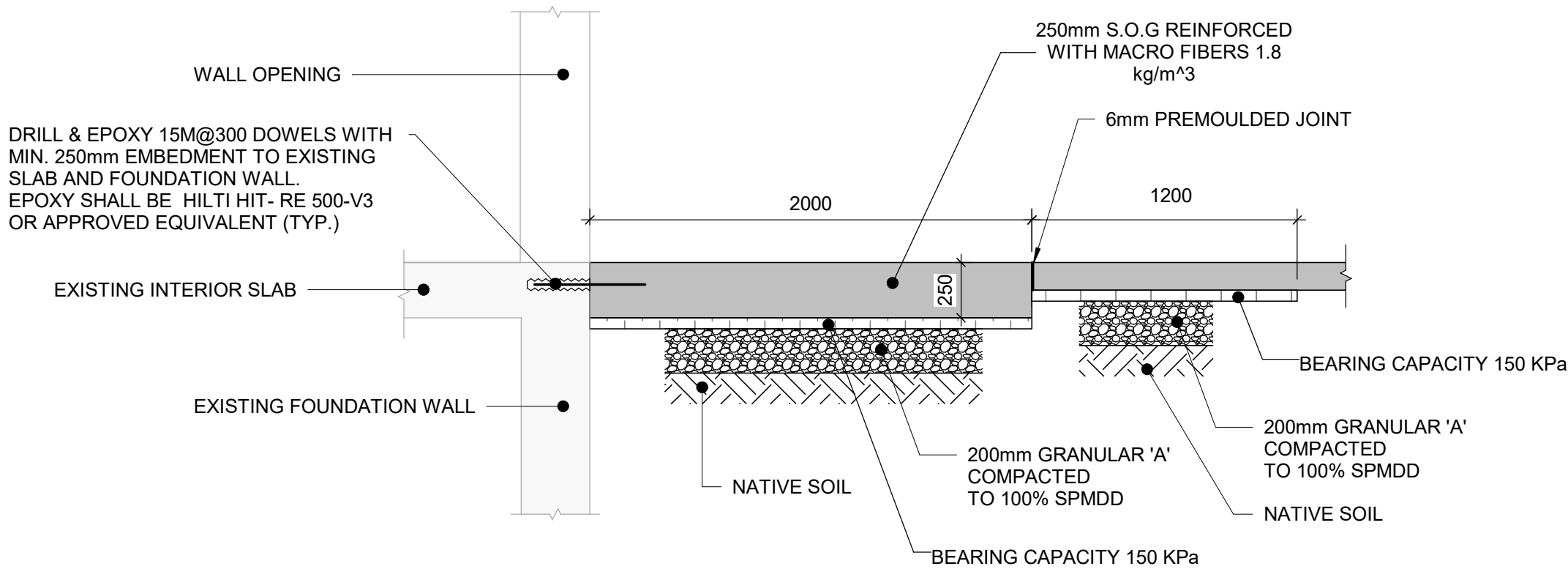
EXTERIOR SLAB TO BE DEMOLISHED AS PER  
2/S2505 FOR FURTHER DETAILS. REFER TO ARCH.  
DRAWINGS FOR LOCATION AND DIMENSIONS.



2 MAIN ENTRANCE - EXTERIOR SLAB PROPOSED PLAN  
S2505 / Scale: 1 : 25



3 SECTION  
S2505 / Scale: 1 : 25



4 SECTION  
S2505 / Scale: 1 : 25

**NOTES:**

- 1.SLAB ON GRADE IS DESIGNED FOR LIVE LOAD : 2.4 KPA
- 2.LOAD BEARING CAPACITY SLS 150 KPA, ULS 200 KPA. CONTRACTOR TO VERIFY.
3. GC TO LOCATE SUBSURFACE UTILITIES INFORM ENGINEER FOR REVIEWAL & APPROVAL PRIOR TO ANY CONSTRUCTION WORK, TO AVOID CONFLICT WITH ANY EXISTING UTILITIES.

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No.	DESCRIPTION	DATE
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C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2024-04-30
E	RE-ISSUED FOR PERMIT	2024-06-12
F	RE-ISSUED FOR PERMIT	2024-09-05
G	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**M. SHEININ**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

SHEET TITLE  
**MAIN ENTRANCE SLAB  
DETAIL**

SHEET NUMBER  
**G21-086-S2505**

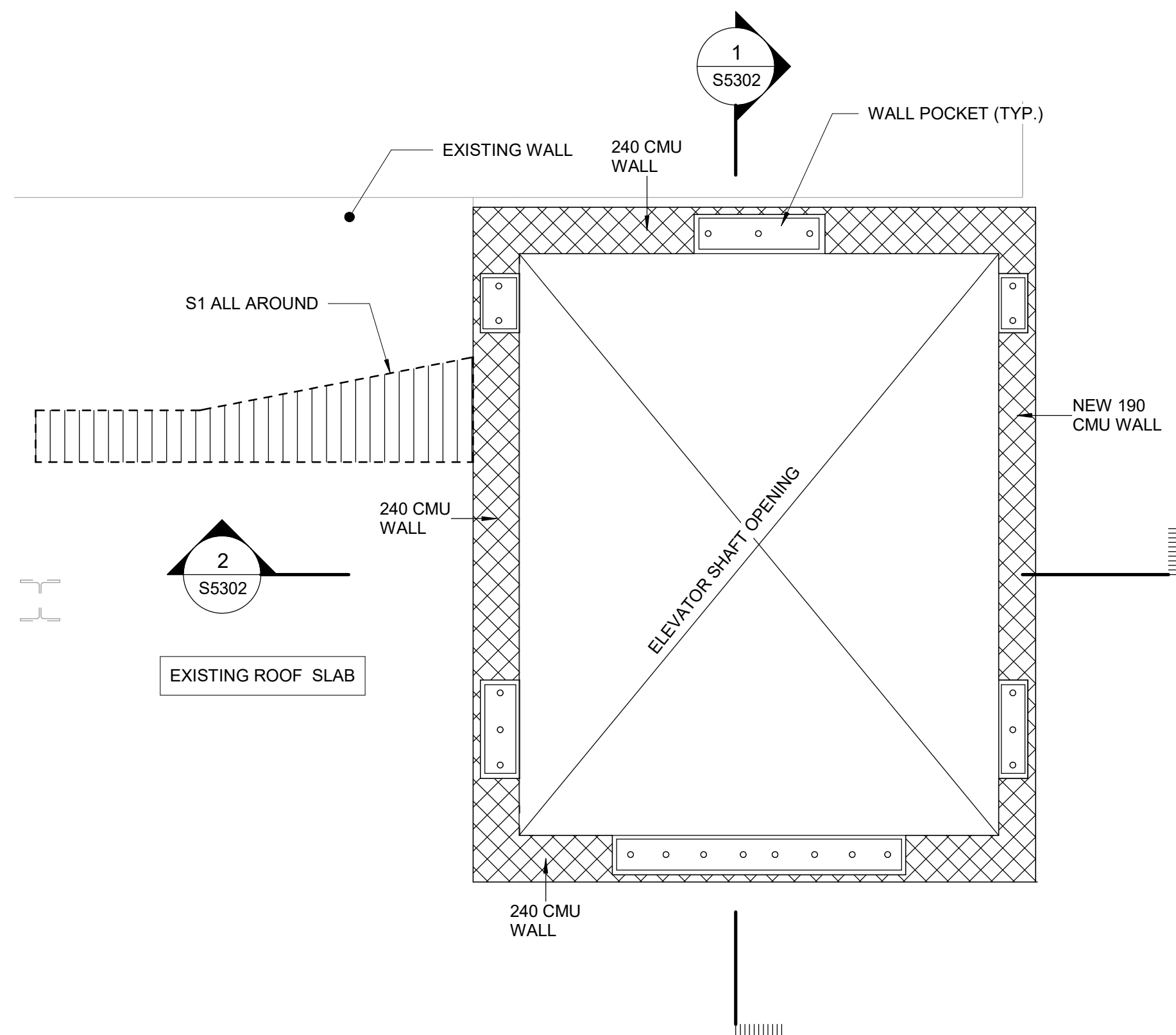
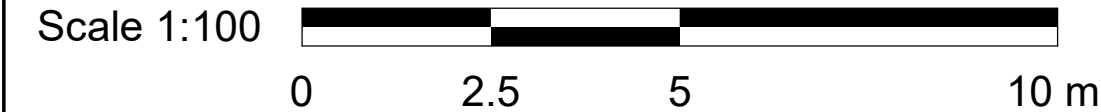
ISSUE  
**G**

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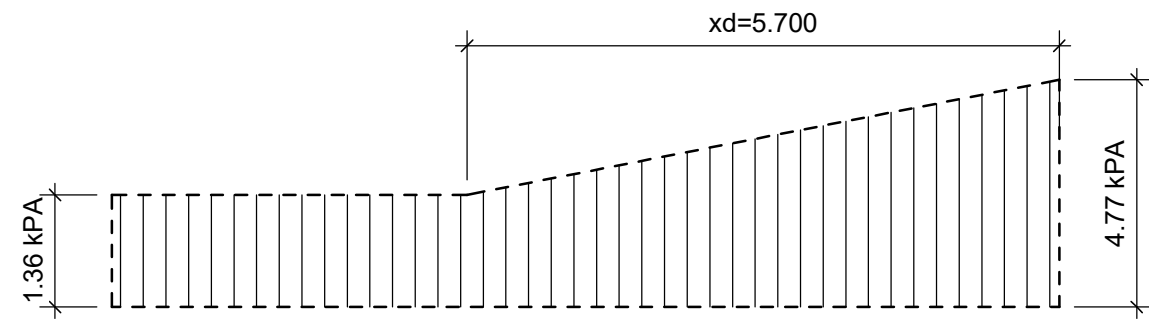


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1 EXISTING ROOF LEVEL - PROPOSED  
S5301 Scale: 1 : 25

S1 - SNOW ACCUMULATION



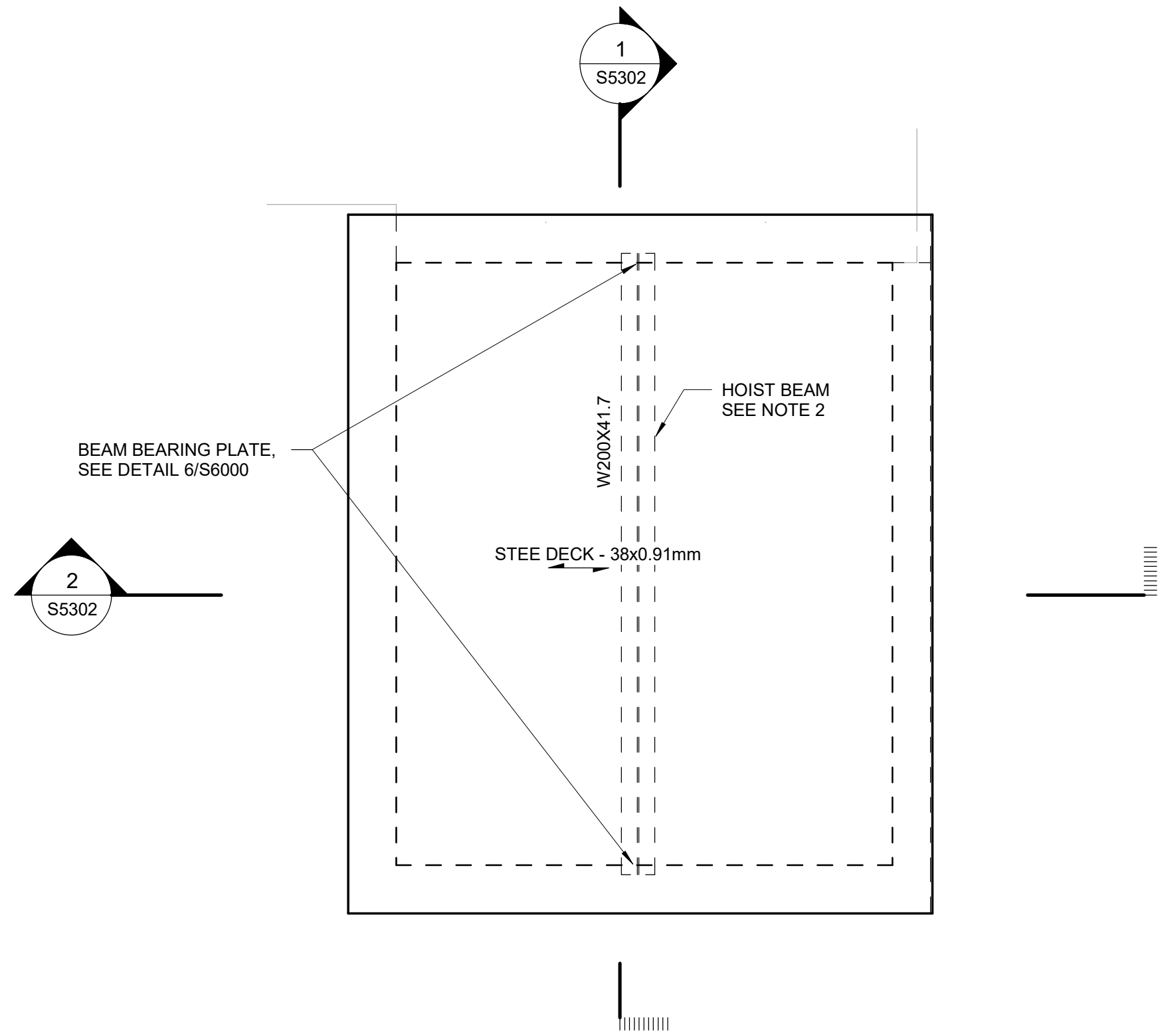
BLOCK WALL SCHEDULE			
BLOCK	VERT. REINFORCING	HORIZ. REINFORCING	REMARKS
240mm	15M@ 200 C/C VERT	EXTRA HEAVY DUTY REINF. LADDER TYPE IN JOINTS AT 400 C/C MINIMUM WIRE DIAMETER TO BE 3.65mm	1. WALL TO BE FULLY GROUTED 2. 25 MPA BLOCK TO BE USED
190mm	10M@ 200 C/C VERT 2 VERT BARS PER BLOCK	EXTRA HEAVY DUTY REINF. LADDER TYPE IN JOINTS AT 400 C/C MINIMUM WIRE DIAMETER TO BE 3.65mm	1. WALL TO BE FULLY GROUTED 2. 25 MPA BLOCK TO BE USED

WALL LEGEND:

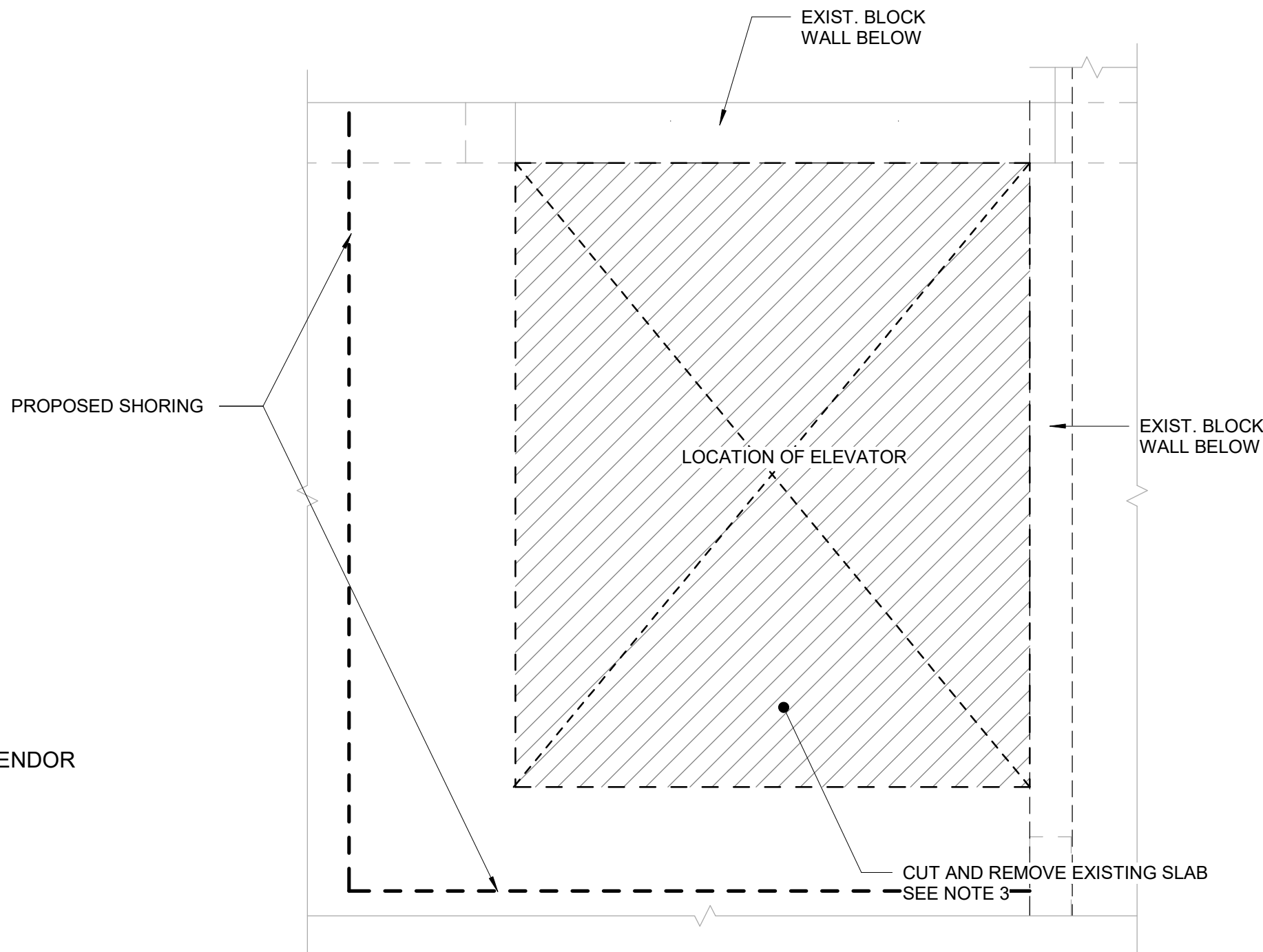
	EXISTING BLOCK WALL
	EXISTING CONCRETE WALL
	TO BE DEMOLISHED BLOCK WALL
	TO BE DEMOLISHED CONCRETE WALL
	NEW BLOCK WALL
	NEW CONCRETE WALL
	EXISTING PARTITION WALL
	NEW PARTITION WALL
	TO BE DEMOLISHED PARTITION WALL

NOTES:

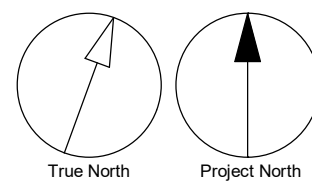
- DESIGN LOADS FOR ROOF:  
I) SUPERIMPOSED DEAD LOAD = 0.5 KPA  
II) LIVE LOAD = 1.0 KPA  
III) SNOW LOAD = 1.36 KPA+DRIFT
- EXACT LOCATION OF HOIST BEAM AND POCKETS TO BE COORDINATED WITH ELEVATOR VENDOR
- ROOF SLAB REBAR ASSUMED TO BE 15M@400 T&B EACH WAY. CONTRACTOR TO SCAN EXISTING REINFORCEMENT AND THICKNESS, AND INFORM ARCADIS STRUCTURAL ENGINEER FOR REVIEWAL PRIOR TO ANY CONSTRUCTION WORK.
- THE SHORING NEEDS TO BE REMOVED ONLY AFTER ELEVATOR SHAFT WALL WILL BE COMPLETED.



2 ELEVATOR ROOF PLAN  
S5301 Scale: 1 : 25



4 EXISTING ROOF - DEMOLITION  
S5301 Scale: 1 : 25



ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-18
B	90% SUBMISSION	2022-03-04
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2024-04-30
E	RE-ISSUED FOR PERMIT	2024-06-12
F	RE-ISSUED FOR PERMIT	2024-09-05
G	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**M. SHEININ**

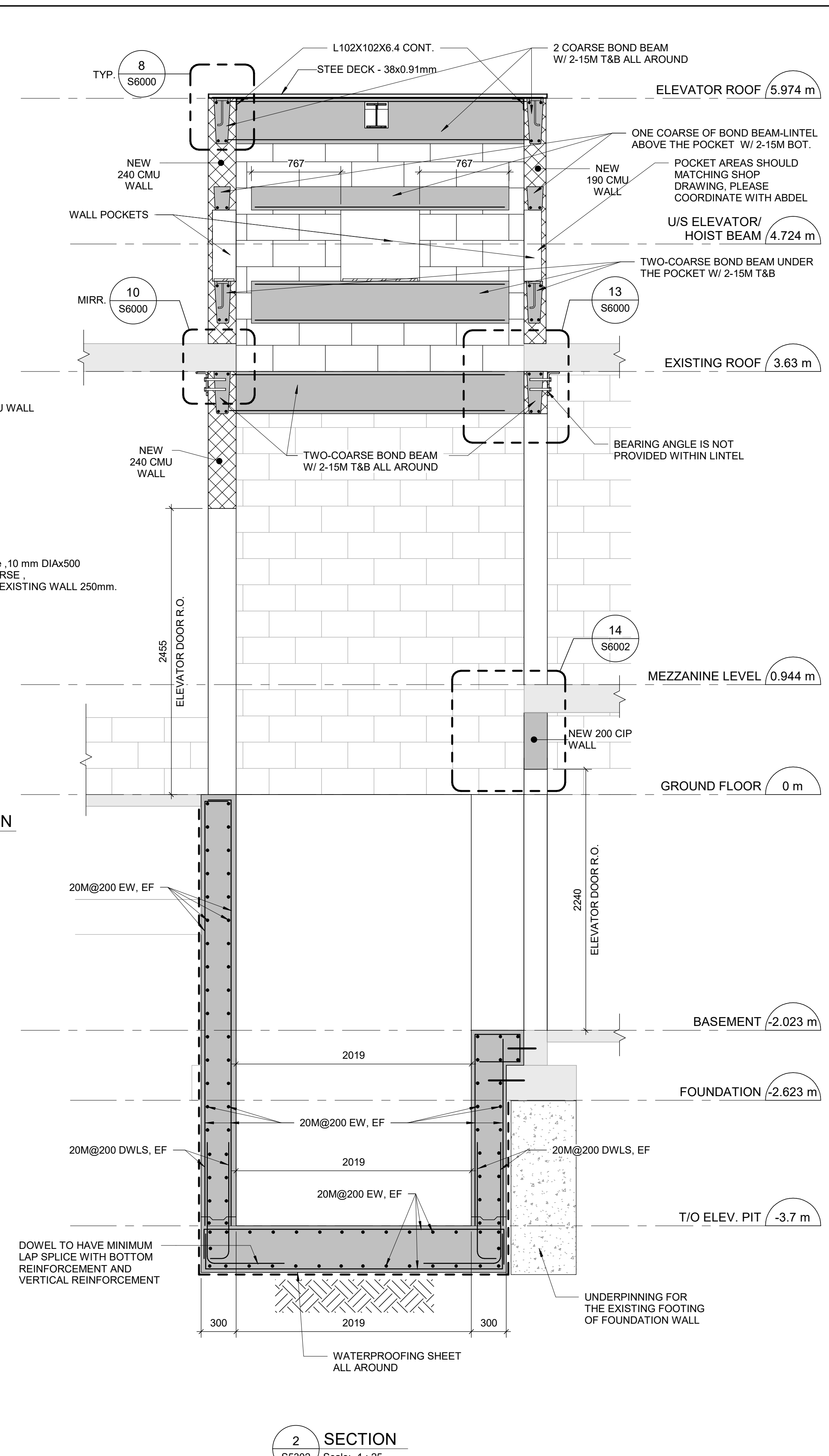
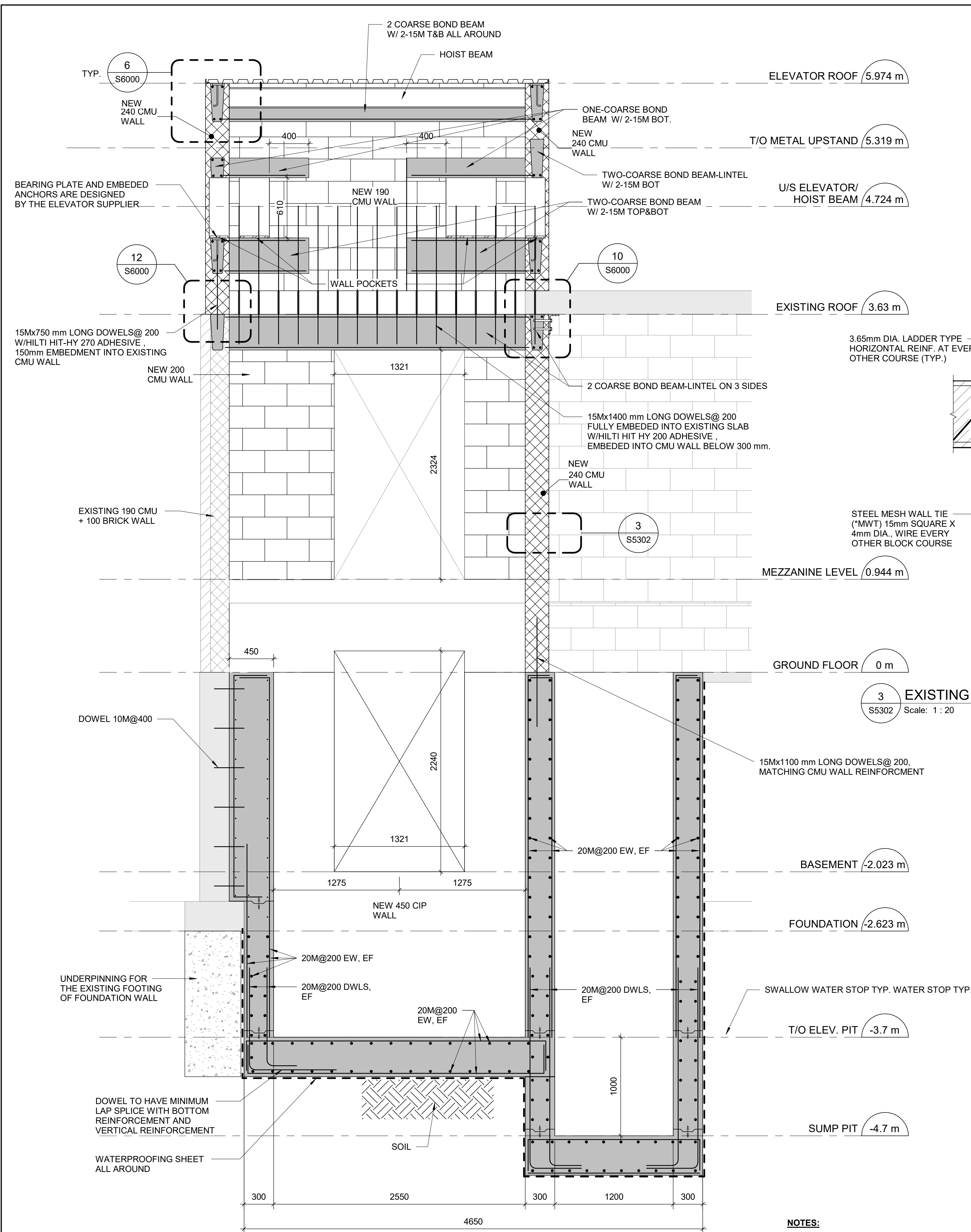
PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

SHEET TITLE  
**PLANS - ELEVATORS**

SHEET NUMBER  
**G21-086-S5301**

ISSUE  
**G**



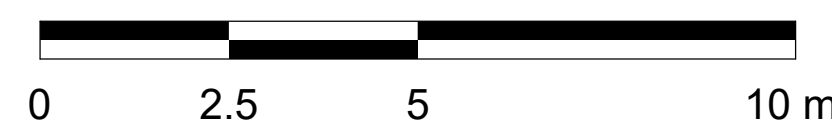
**NOTES:**

1. SCAN REINFORCEMENT IN WALL BELOW BEFORE DRILLING NEW ANCHORS AND DOWELS. OFFSET ANCHORS AND DOWELS FROM EXISTING REINFORCEMENT.
2. GC TO VERIFY EXISTING CONDORION OF THE CONCRETE RETAINING WALL AND PERIMETER MASONRY BLOCK WALL AND THEIR ASSOCIATED FOOTINGS PRIOR TO ANY CONSTRUCTION; ARCADIS SHALL BE INFORMED.
3. ALL THE ASSUMPTION AND CALCULATIONS ARE BASED ON GEOTECHNICAL INVESTIGATION REPORT BY FORWARD ENGINEERING & ASSOCIATES INC. AND DATED JUNE 08, 2022.
4. CONSTRUCTION SEQUENCE SHALL BE CONFIRMED BY ARCADIS AND STRUCTURAL ENGINEER OF RECORD.
6. XYPEX OR SIMILAR ADDITIVE TO BE ADDED TO CONCRETE FOR ADDITIONAL WATERTIGHTNESS.
7. WEB PUNCHOUTS ARE NOT PERMITTED NEAR THE END OF THE CFS STUDS. MIN. DISTANCE FROM THE LAST PUNCHOUT TO THE END OF THE STUDS 300 mm.

1 SECTION  
S5302 Scale: 1 : 25

Scale: 1 : 25

Scale 1:100



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ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-18
B	90% SUBMISSION	2022-03-04
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2024-04-30
E	RE-ISSUED FOR PERMIT	2024-06-12
F	RE-ISSUED FOR PERMIT	2024-09-05
G	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**G. POULOU**

CHECKED BY:  
M. SHEININ

PROJECT MGR:  
F. BOLOURIAN

APPROVED BY:  
K. ANGER

SHEET TITLE	SECTIONS - ELEVATORS
-------------	----------------------

SHEET NUMBER

G21-086-S5302

SSUE

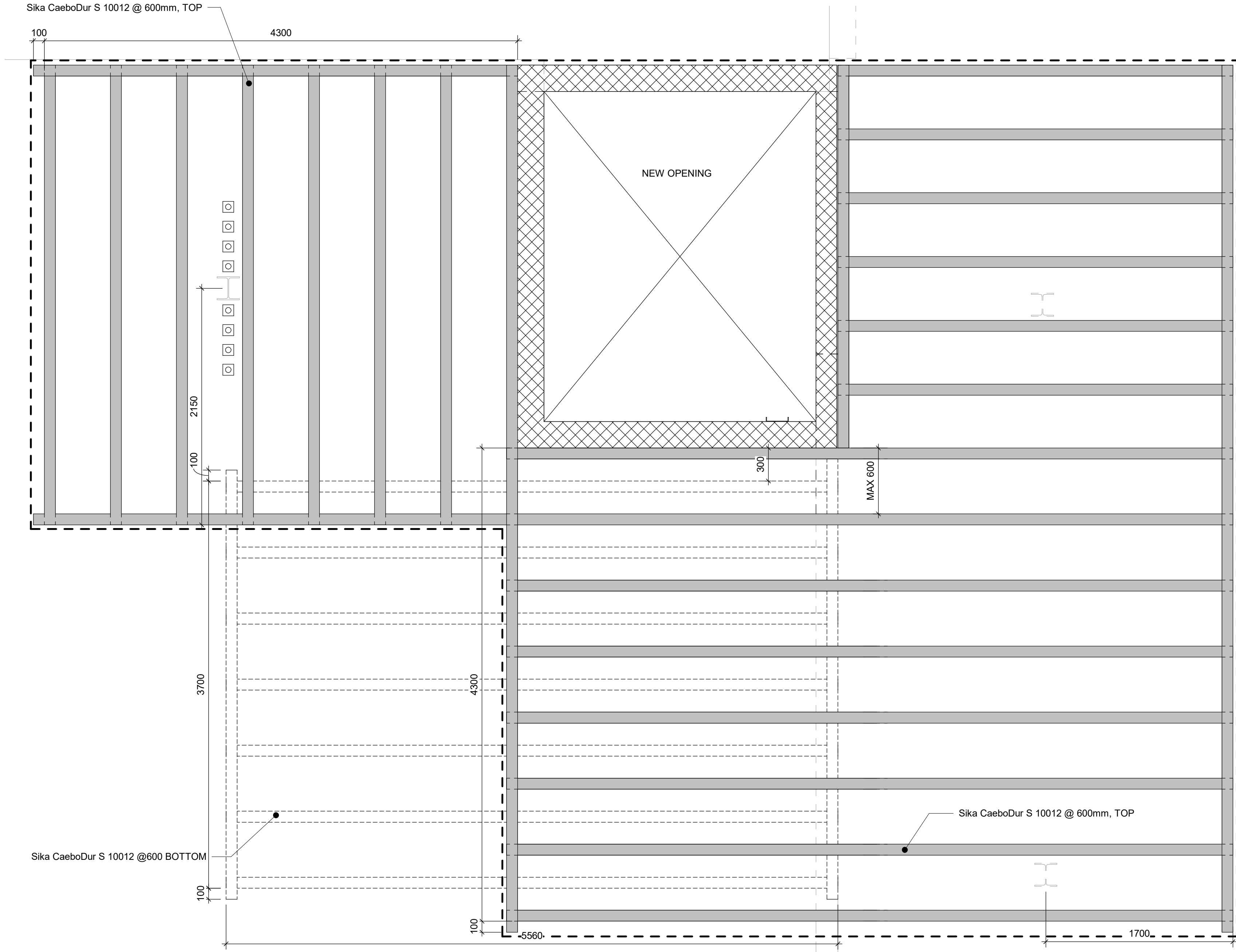
## G

Autodesk Docs://122260 - CoTT TAU Upgrades R2024/122260-TAU-5-86-160RVLDA-S-R20.mt

10mm

in





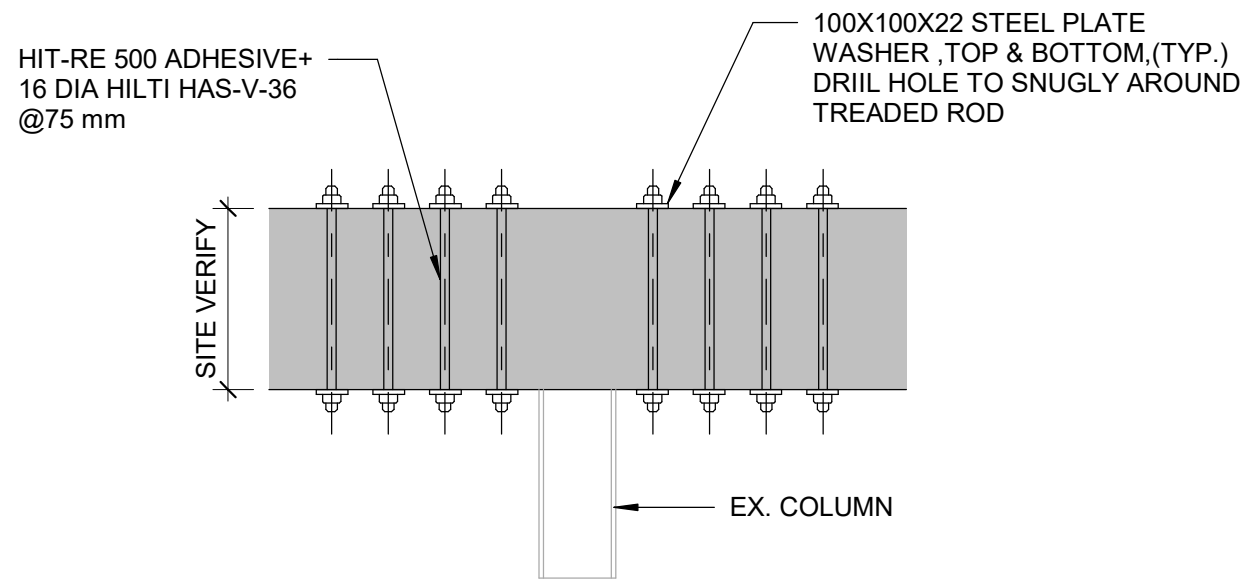
1 PROPOSED SLAB REINFORCEMENT USING CARBON FIBER LAMINATE (CFL) STRIPS AND POST  
S5303 Scale: 1 : 25

NOTES:

- REMOVE ROOFING MATERIAL ABOVE REPAIRED AREA AS REQUIRED FOLLOWING MANUFACTURER INSTRUCTION.
- FOR CARBON FIBER LAMINATE (CFL) INSTALLATION AND SURFACE PREPARATION, REFER TO THE MANUFACTURER'S INSTRUCTIONS.
- SCAN AND ACCURATELY LOCATE THE POSITIONS OF THE EXISTING HORIZONTAL REBARS, WHICH ARE ORIENTED IN TWO DIRECTIONS, BEFORE INSTALLING VERTICAL ANCHORS FOR PUNCHING SHEAR REINFORCEMENT.

LEGENDS:

- RE-ROOFING BOUNDARY
- CFL STRIPS INSTALLED ON THE UPPER SURFACE OF ROOF SLAB
- CFL STRIPS INSTALLED BELOW THE ROOF SLAB



2 SECTION  
S5303 Scale: 1 : 10

Scale 1:100  
0 2.5 5 10 m

CFL INSTALLATION PROCEDURE:

- SURFACE MUST BE CLEAN , SOUND AND FREE OF STANDING WATER AND FROST.BLAST CLEAN CONCRETE SURFACE TO PROVIDE AN OPEN ROUGHENED TEXTURE.
- EXISTING UNEVEN SURFACES MUST BE FILLED WITH AN APPROPRIATE REPAIR MORTAR (E.G. MIXED SIKADUR-30 EPOXY WITH THE ADDITION OF 1 PART OVEN-DRIED SAND).
- CARBODUR LAMINATES SHOULD BE CUT WITH TOOLS USING A "SHEARING" FORCE (E.G. GUILLOTINE OR HEAVY DUTY SHEARS).
- APPLY SIKADUR 30 EPOXY ONTO THE CONCRETE USING A TROWEL OR SPATULA TO ACHIEVE A NOMINAL THICKNESS OF 1.5 MM. THEN APPLY SIKADUR-30 EPOXY ONTO THE CARBODUR LAMINATE USING A ROOF-SHAPED SPATULA TO A NOMINAL THICKNESS OF 1.5 MM. ENSURE THIS IS COMPLETED WITHIN THE OPEN TIME OF THE EPOXY, WHICH MAY VARY DEPENDING ON TEMPERATURE. CONSULT MANUFACTURER FOR EPOXY OPEN TIME AND OTHER RECOMMENDATION.
- PLACE THE CFL STRIPS ONTO THE CONCRETE SURFACE USING A HARD RUBBER ROLLER, PRESS THE LAMINATE INTO THE EPOXY RESIN UNTIL THE ADHESIVE IS FORCED OUT ON BOTH SIDES. REMOVE EXCESS ADHESIVE.

CFL WORKING LIMITATION:

- SIKADUR-30 EPOXY IS DESIGNED FOR USE AT NORMAL TEMPERATURES BETWEEN +8 °C AND +35 °C.
- PRIOR TO APPLICATION ENSURE SUBSTRATE MOISTURE CONTENT, AMBIENT RELATIVE HUMIDITY, AMBIENT AND SURFACE TEMPERATURE AND DEW POINT ARE WITHIN PERMISSIBLE LIMITS DEFINED BY MANUFACTURER.

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No.	DESCRIPTION	DATE
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B	RE-ISSUED FOR PERMIT	2024-09-05
C	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
**CITY OF TORONTO  
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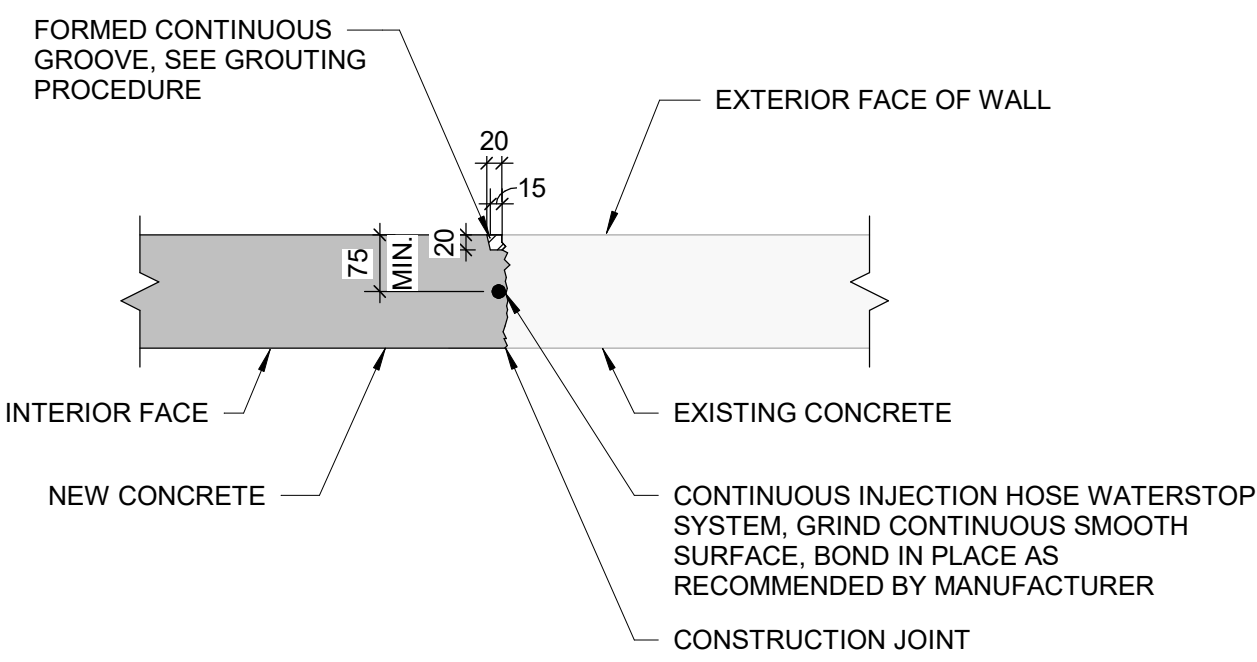
PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260  
DRAWN BY:  
**D. DU**  
CHECKED BY:  
**M. SHEININ**  
PROJECT MGR:  
**F. BOLOURIAN**  
APPROVED BY:  
**K. ANGER**

SHEET TITLE  
**EXISTING ROOF -  
PROPOSED**

SHEET NUMBER  
**G21-086-S5303**  
ISSUE  
**C**

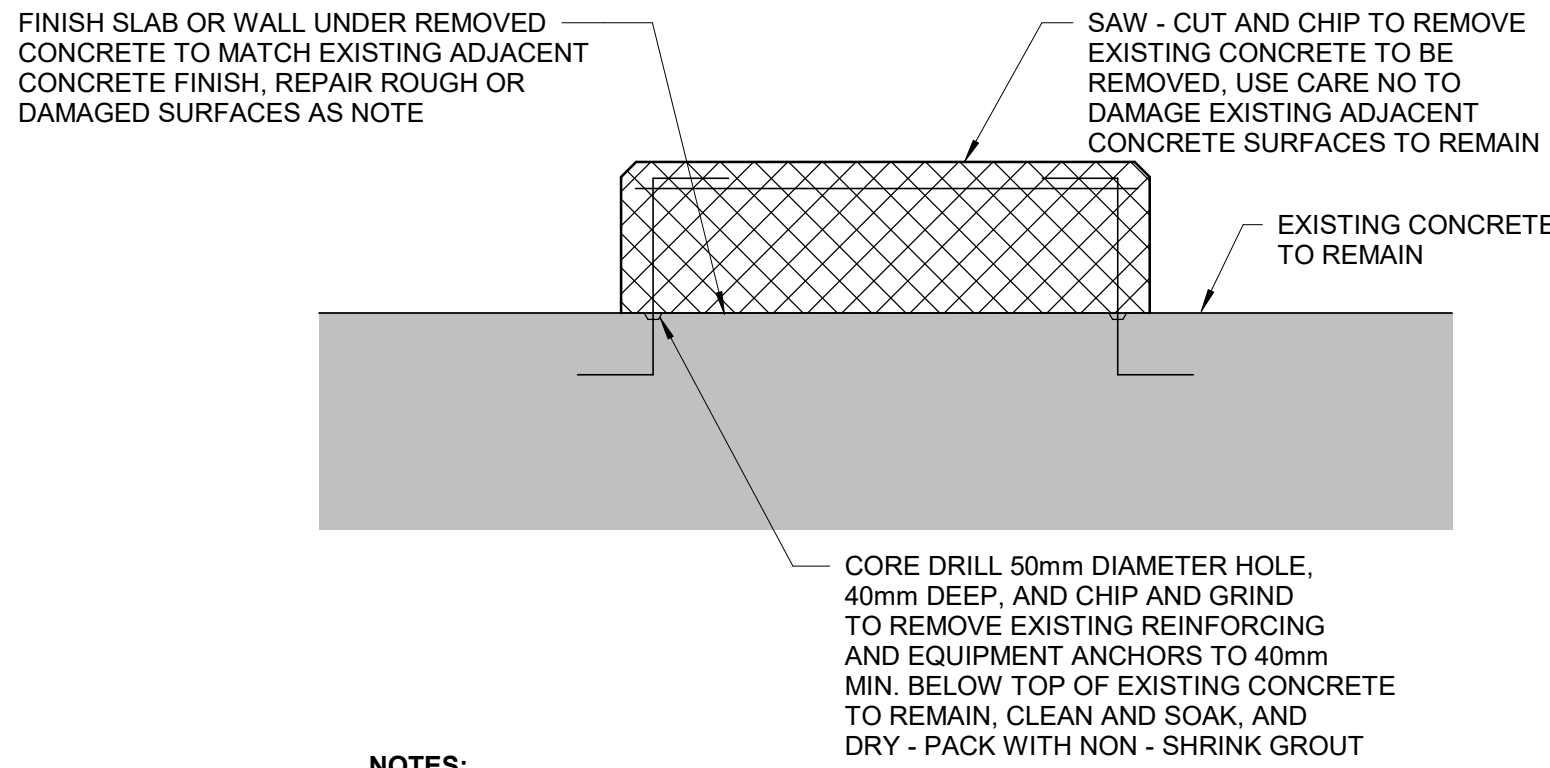




#### GROUTING PROCEDURE:

1. WAIT UNTIL NEW CONCRETE MINIMUM 28 DAYS OLD PRIOR TO GROUTING GROOVE.
2. ROUGHEN AND CLEAN SURFACE OF GROOVE WITH POWER WIRE BRUSH OR SANDBLASTING.
3. SATURATE AREA FOR 24 HOUR PRIOR TO GROUTING.
4. DRY PACK WITH NON - SHRINK GROUT.
5. USE STEEL HAMMER AND STEEL TOOL TO DENSELY PACK GROUT INTO GROOVE.
6. WATER CURE GROUT FOR 4 DAYS MINIMUM.

**1** INJECTION HOSE WATERSTOP AT CONNECTION TO EXISTING CONCRETE  
S6000 Scale: 1 : 10

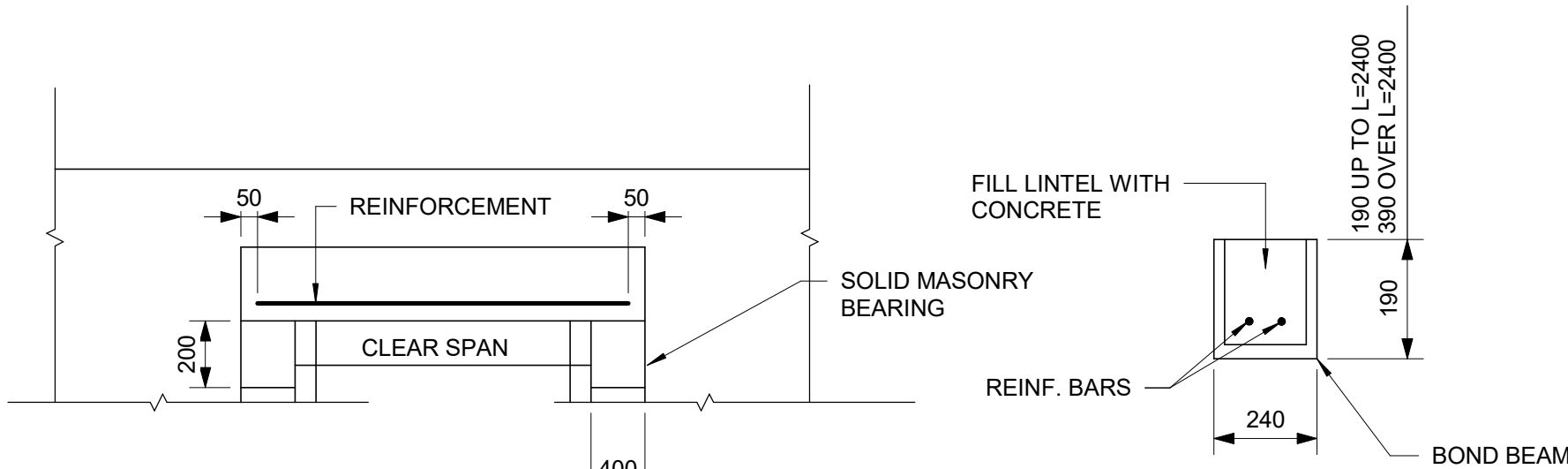


#### NOTES:

1. REMOVE CONCRETE OUT TO SOUND CONCRETE.
2. IF CHIPPING INTO THE SURFACE OF THE EXISTING SLAB OR WALL TO REMAIN IS REQUIRED, MAKE EDGE PERPENDICULAR TO THE SURFACE. DO NOT FEATHER EDGES.
3. FILL DEFECTIVE AREA WITH NON - SHRINK GROUT OR AN APPROVED PREPACKAGED PATCHING MATERIAL TO MATCH APPEARANCE OF ADJACENT CONCRETE SURFACES.
4. USE APPROVED BONDING AGENT ON SURFACES TO BE PATCHED PRIOR TO PLACING NON - SHRINK GROUT.
5. DEMONSTRATE METHODS FOR REPAIR USING ACTUAL MATERIALS, METHODS, AND CURING PROCEDURES REQUIRED BY MATERIAL MANUFACTURERS, CONSULT WITH BONDING AGENT MANUFACTURER AND NON - SHRINK GROUT MANUFACTURER ON TECHNIQUES.

**2** TYPICAL CONCRETE DEMOLITION  
S6000 Scale: 1 : 10

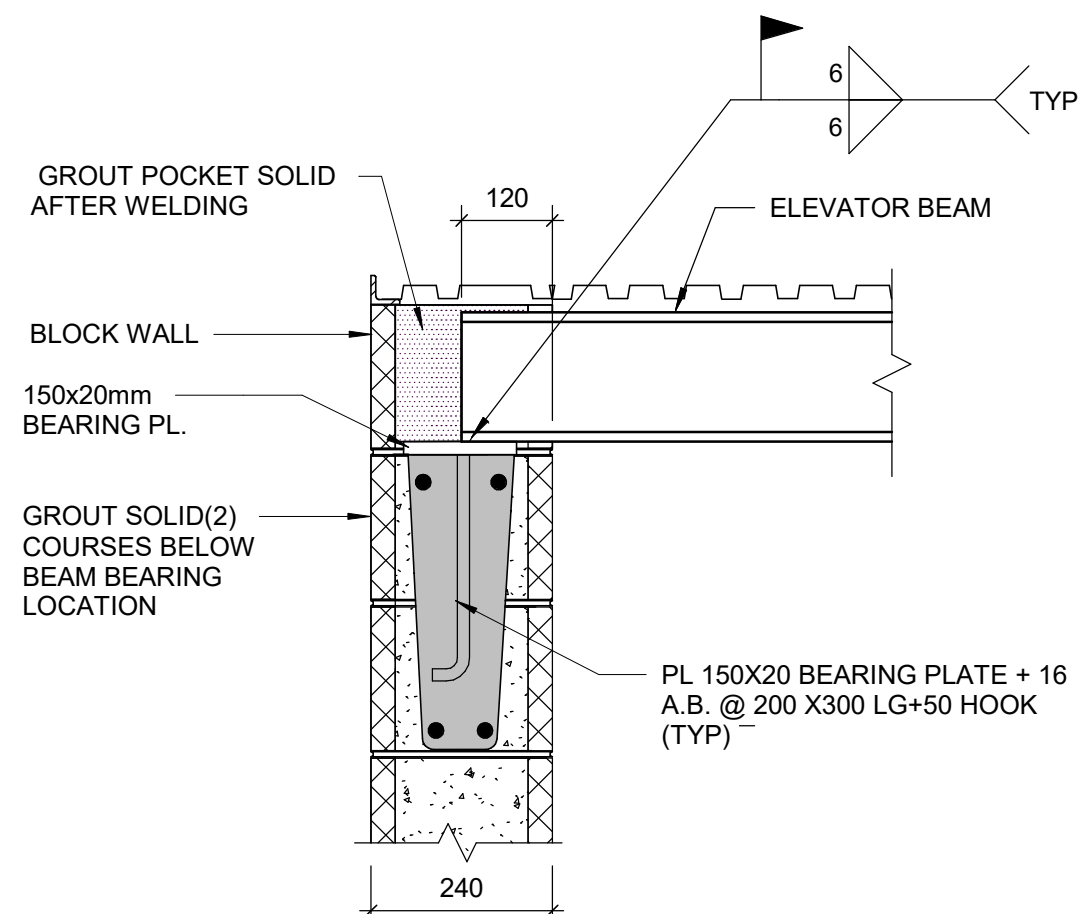
CLEAR SPAN	REINF. IN BOND BEAM
UP TO 2400	2-20M
2400 TO 3000	4-20M



#### NOTES:

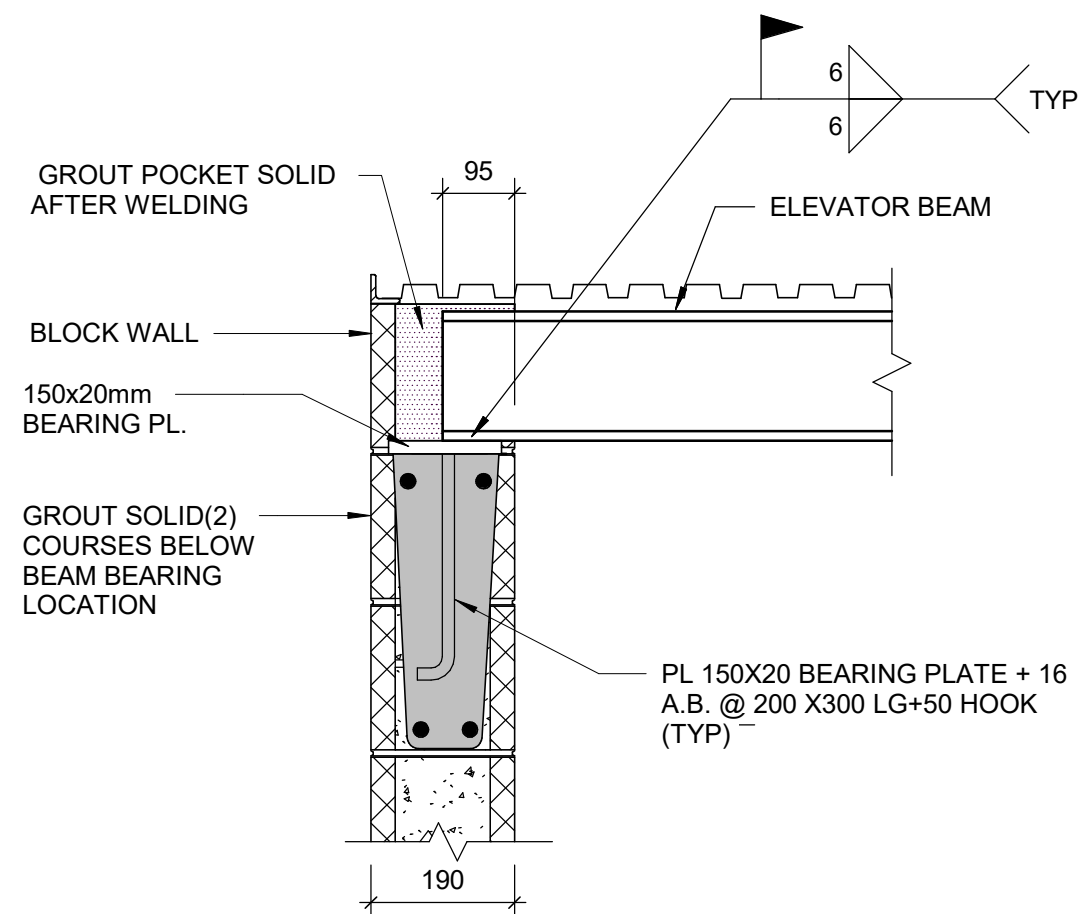
1. BLOCKS ABOVE LINTELS TO BE FILLED SOLID WITH GROUT FOR HEIGHT EQUAL TO SPAN.
2. SHORE LINTELS UNTIL GROUT REACHES DESIGN STRENGTH.

**4** MASONRY LINTELS  
S6000 Scale: 1 : 20



BEAM BEARING PLATE 50mm WIDER THAN BEAM U.N.O.

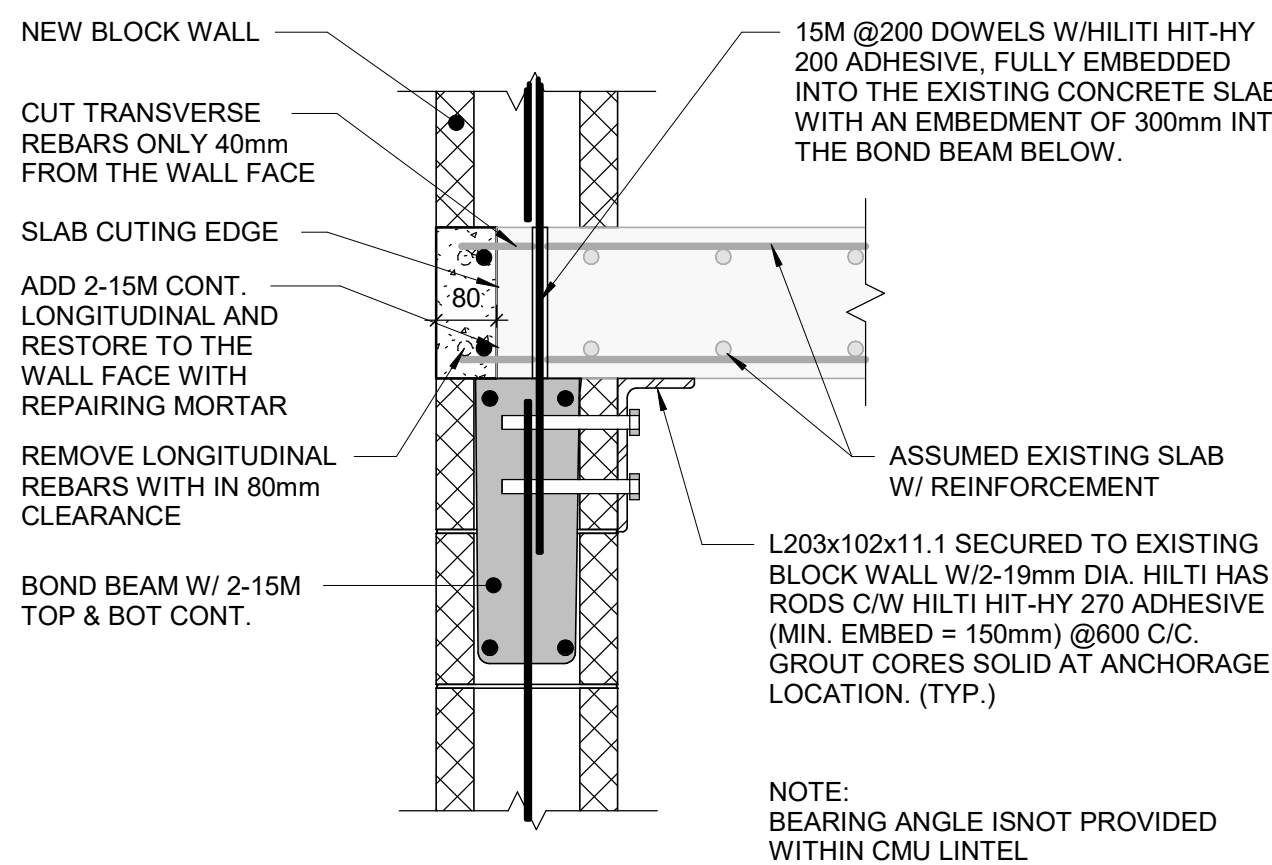
#### 240mm BLOCK WALL



BEAM BEARING PLATE 50mm WIDER THAN BEAM U.N.O.

#### 190mm BLOCK WALL

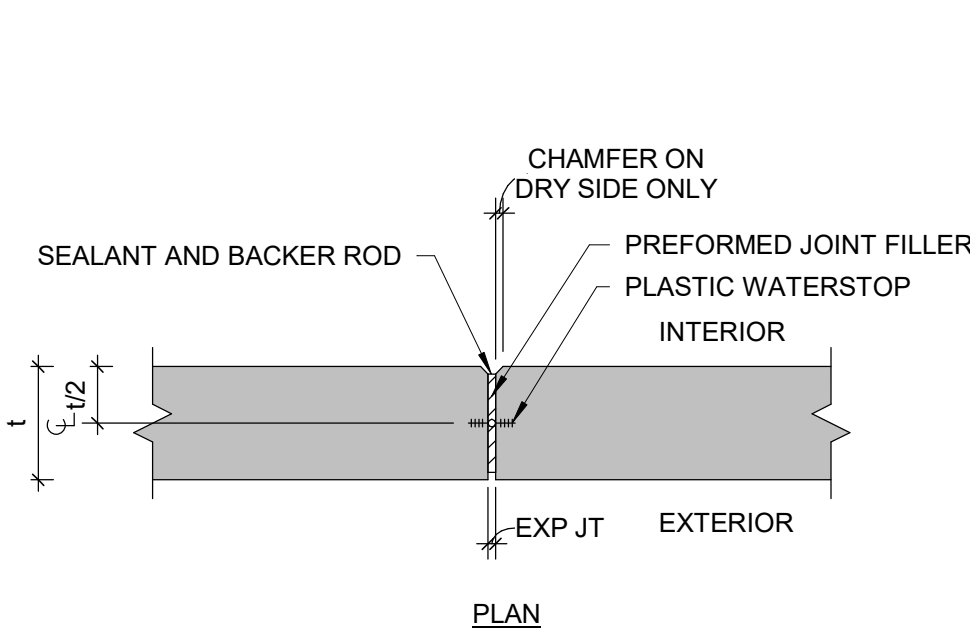
**6** BEAM BEARING ON PERPENDICULAR BLOCK WALL  
S6000 Scale: 1 : 10



#### PROPOSED SLAB CUTTING SEQUENCE:

1. CUT THE SLAB 80 MM AWAY FROM WALL FACE TO ENSURE SUFFICIENT SPACE FOR GROUTING AND REINFORCEMENT INSTALLATION IN THE SUPPORTING BOND BEAM. TAKE CARE TO CUT TRANSVERSE REBARS ONLY 40 MM AWAY FROM WALL FACE AND ALLOWING THEM TO EXTEND BEYOND THE SLAB'S CUTTING EDGE AS DOWELS.
2. PROVIDE 2-15M CONT. LONGITUDINAL REBARS AND APPLY REPAIR MORTAR TO RESTORE THE SLAB EDGE TO THE WALL FACE.
3. AFTER THE REPAIR MORTAR HAS FULLY CURED, DOWELS WILL BE FULLY EMBEDDED INTO SLAB AND EXTENDED IN TO BOND BEAM.

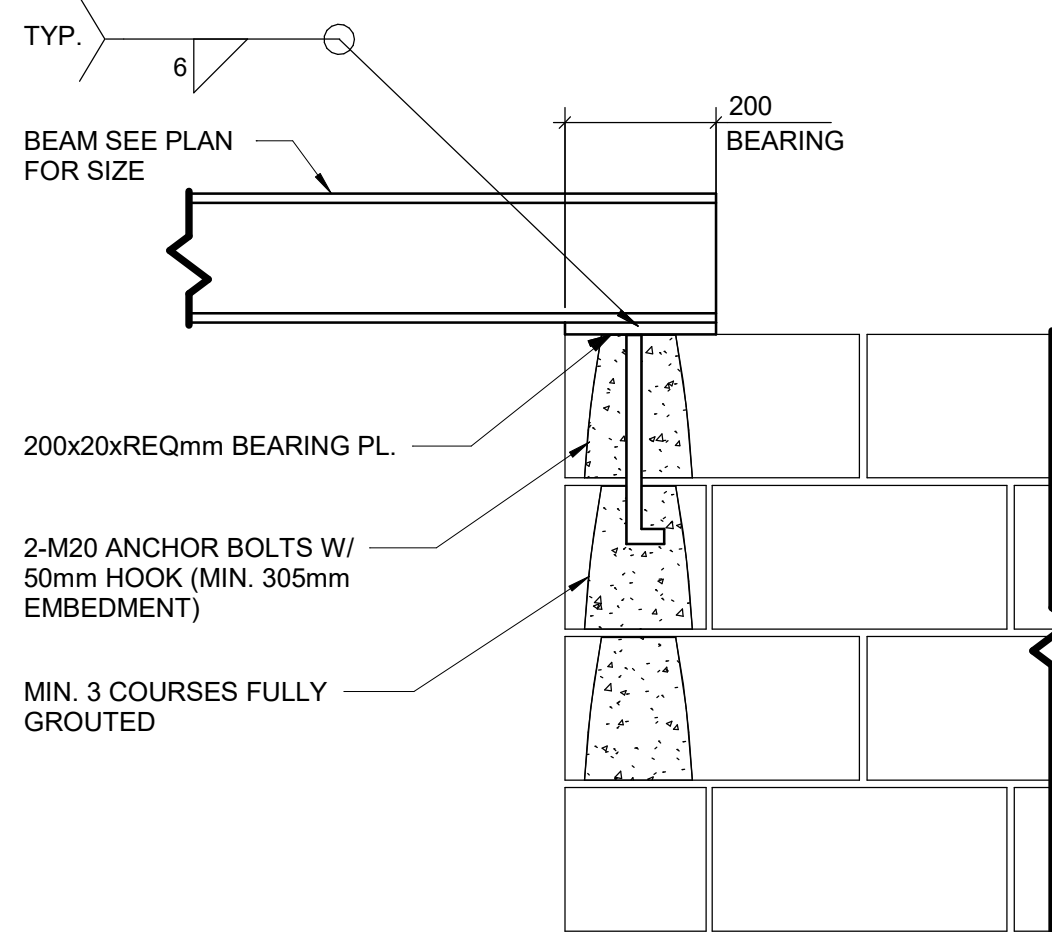
**10** DETAIL  
S6000 Scale: 1 : 10



#### NOTE:

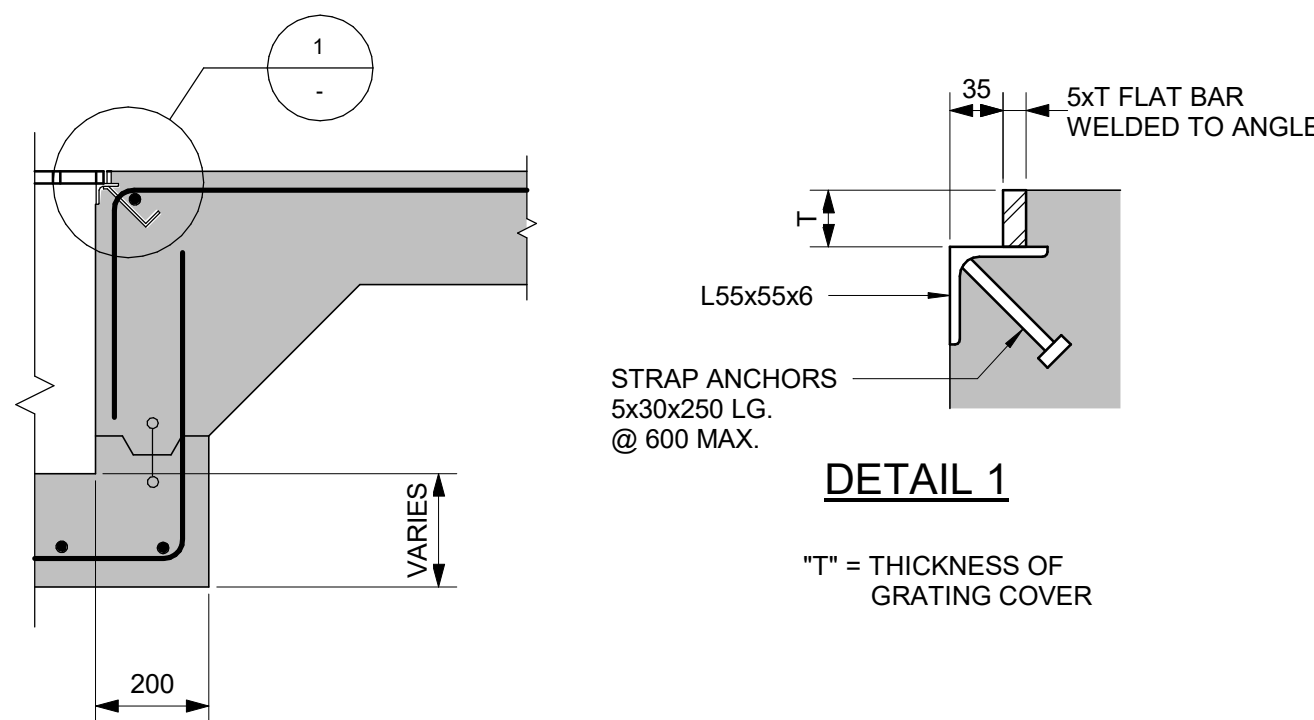
PROVIDE EXTERNAL SHEET WATERPROOFING IN ADDITION TO PVC WATERSTOP

**3** EXPANSION JOINT AT BELOW GRADE WALL  
S6000 Scale: 1 : 10



BEAM BEARING PLATE 25mm NARROWER THAN BLOCK WALL THICKNESS U.N.O.

**7** BEAM BEARING ON PARALLEL BLOCK WALL  
S6000 Scale: 1 : 10

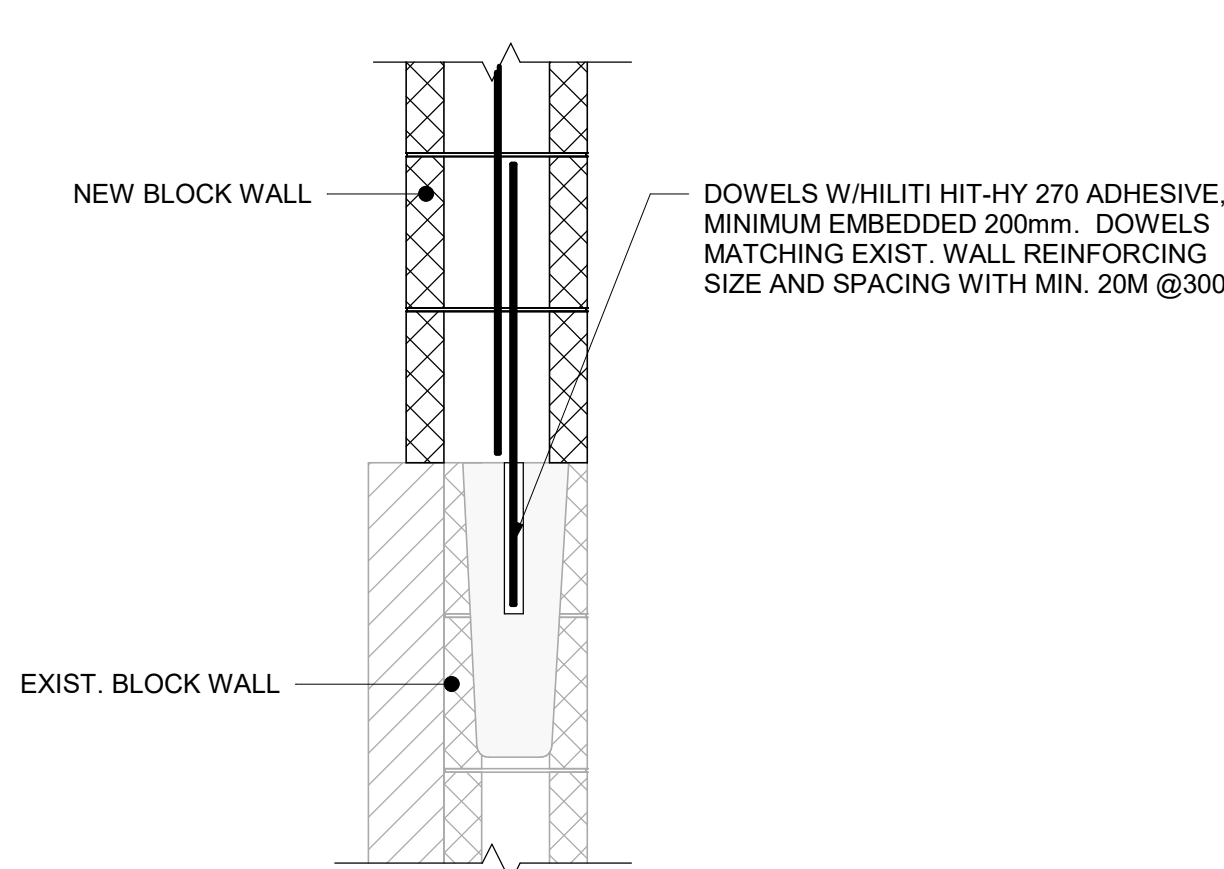


#### TRENCH

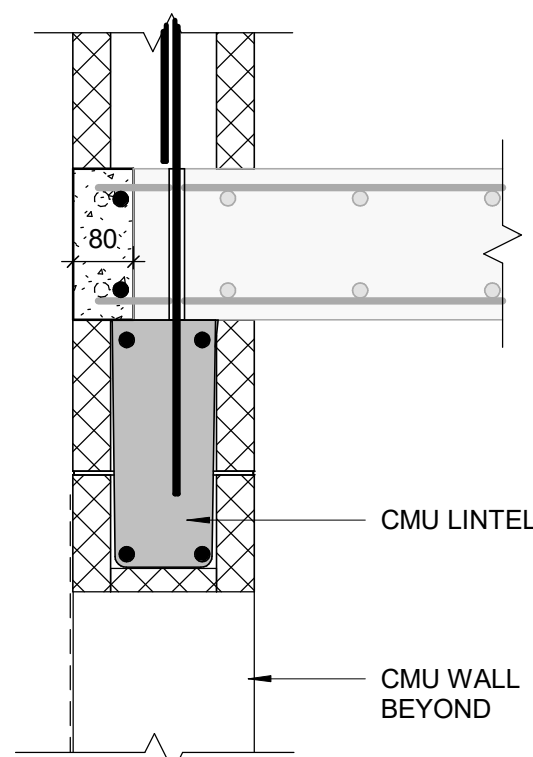
#### TRENCH AND PIT COVER FRAMES

NOTE: TRENCH COVER FRAME DETAIL SIMILAR. PROVIDE ANCHORS AT 600 MAX. SPACING

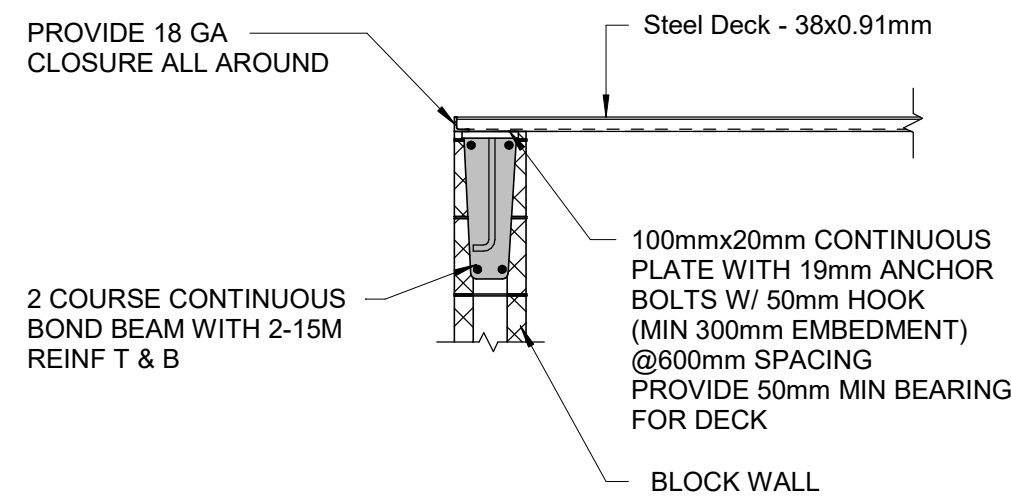
**11** TRENCH AND PIT COVER FRAMES  
S6000 Scale: 1 : 20



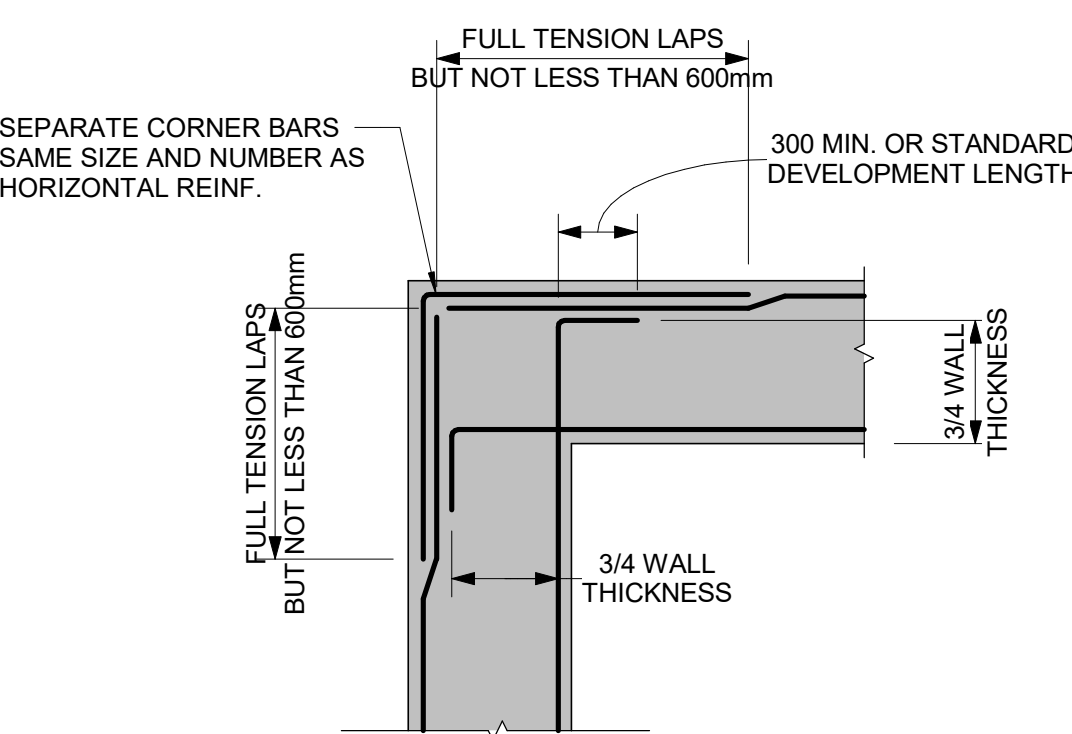
**12** DETAIL  
S6000 Scale: 1 : 10



**13** DETAIL  
S6000 Scale: 1 : 10



**8** STEEL DECK CONNECTION TO BLOCK WALL  
S6000 Scale: 1 : 20



**9** TYPICAL WALL CORNER REINFORCEMENT  
S6000 Scale: 1 : 20

Scale 1:100  
0 2.5 5 10 m

ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-18
B	90% SUBMISSION	2022-03-04
C	ISSUED FOR PERMIT	2022-03-18
D	100% SUBMISSION	2024-04-30
E	RE-ISSUED FOR PERMIT	2024-06-12
F	RE-ISSUED FOR PERMIT	2024-09-05
G	ISSUED FOR TENDER	2025-09-05

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tel 416 679 1930  
www.arcadis.com

PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**M. SHEINN**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

SHEET TITLE  
**SECTIONS - ELEVATORS**

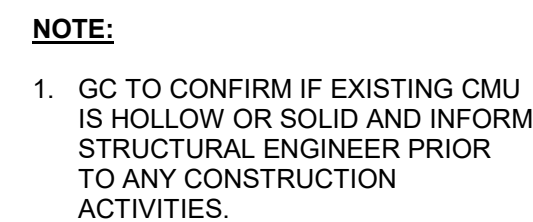
SHEET NUMBER

**G21-086-S6000**

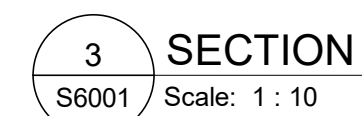
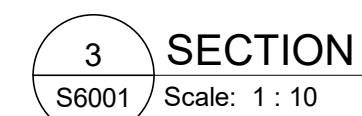
ISSUE

**G**






S6001 Scale: 1 : 25



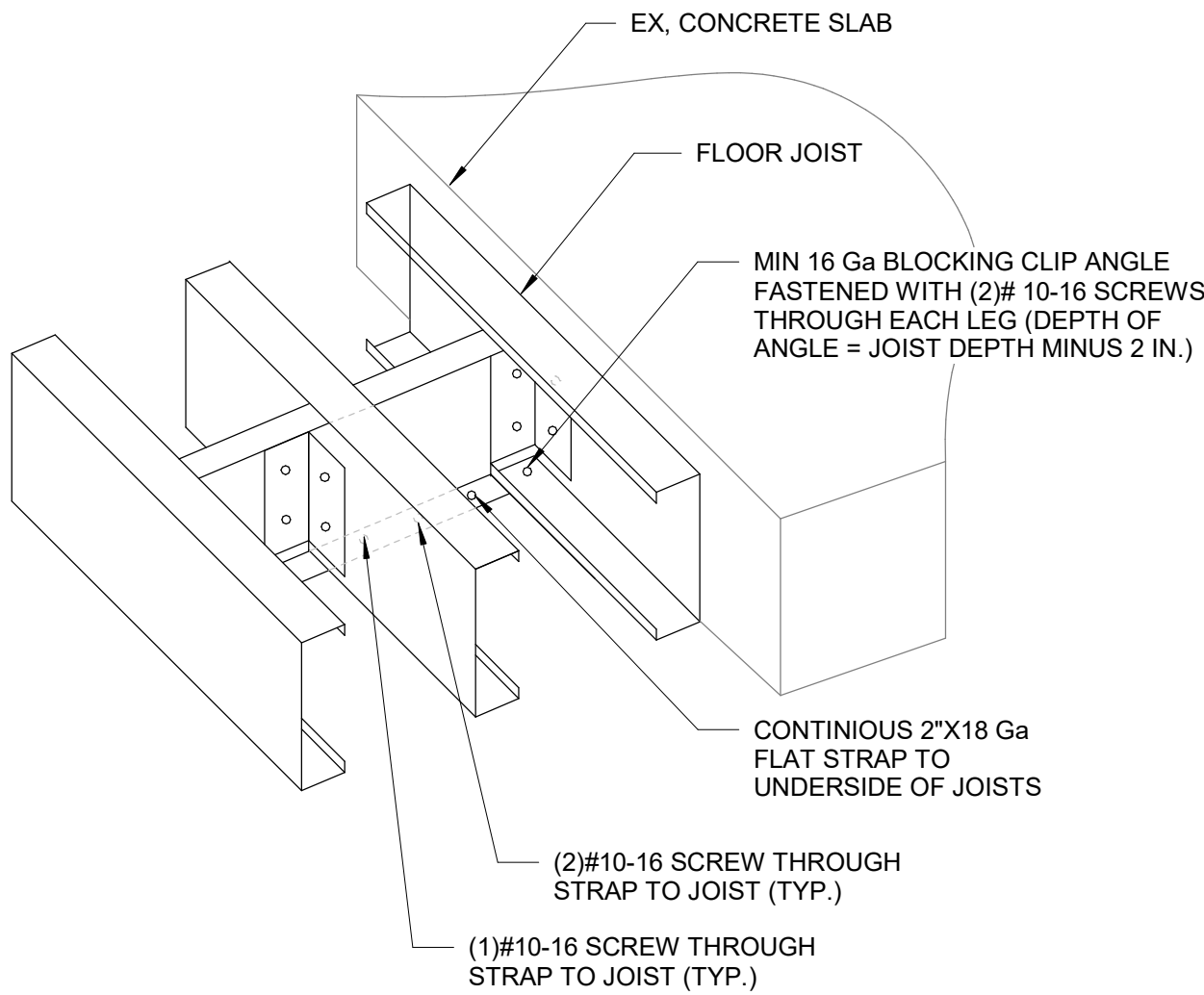
Scale 1:100



0 2.5 5 10 m

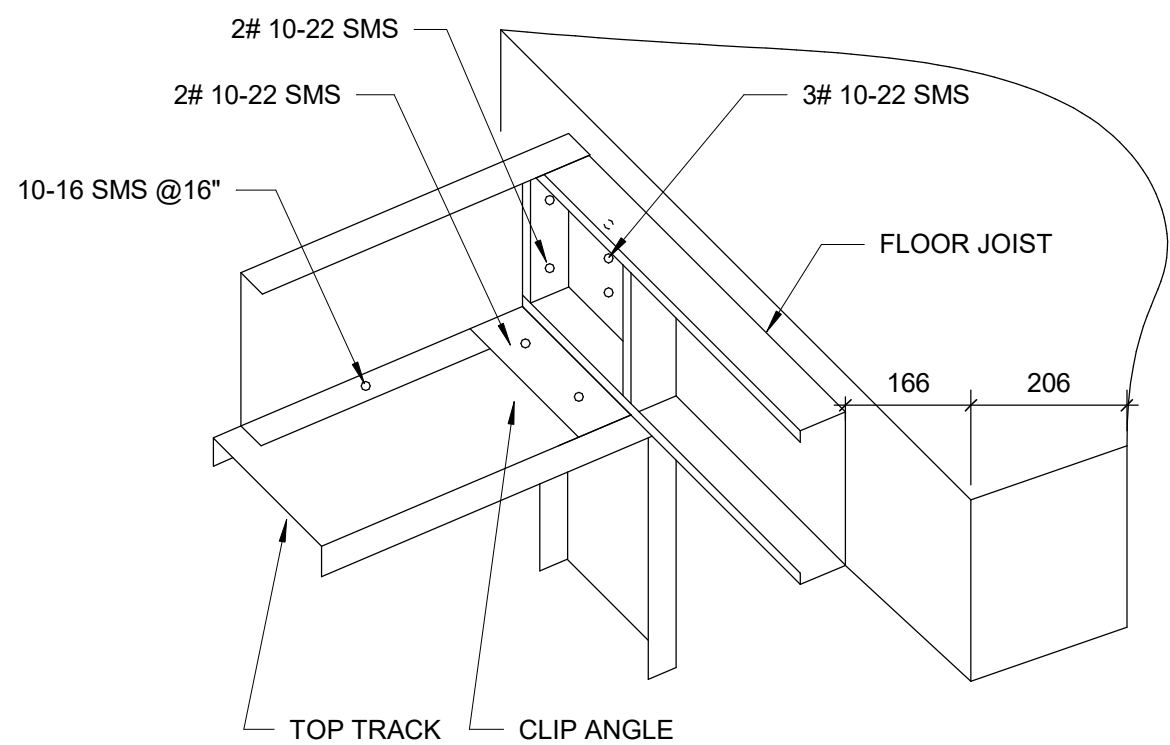
Autodesk Docs://122260 - CoT TAU Upgrades R2024/122260-TAU-5-86-160RVLDA-S-R20.M

CFS STUD & JOIST SCHEDULE			
COMPONENT	SIZE	STUD SPACING (mm)	REMARKS
STUD WALL	800S162-43	STUDS UNDERNEATH FLOOR JOISTS - 250mm	
STUD TOP TRACK	800T162-43	OTHER STUDS = 400mm	
STUD BOTTOM TRACK	800T162-43		
FLOOR JOIST	800S250-43	FLOOR JOISTS = 250mm	ONE WEB STIFFENER ON EACH SIDE REQUIRED



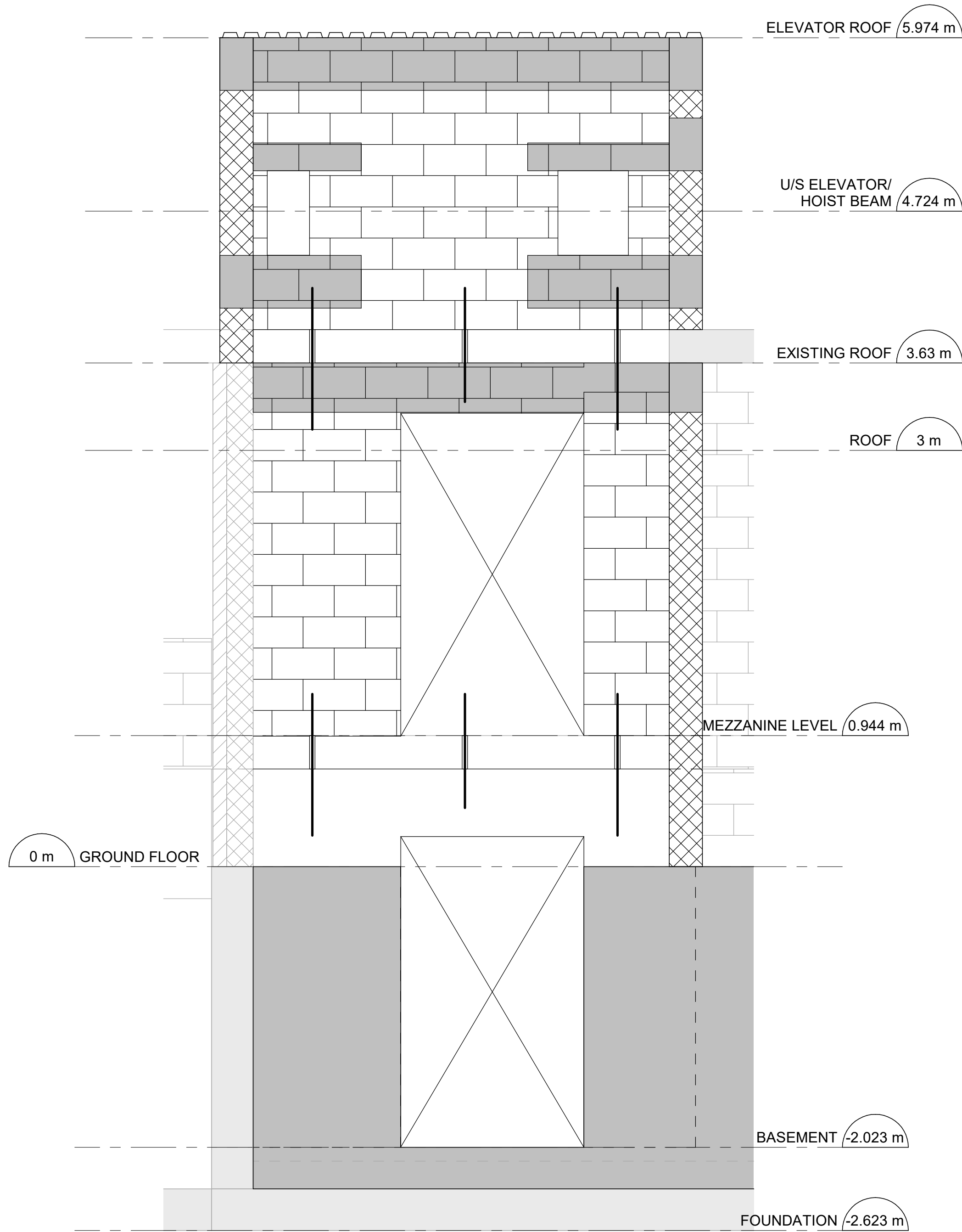
14  
S6002

DETAIL  
Scale: 1 : 10



15  
S6002

DETAIL  
Scale: 1 : 10



17  
S6002

Section 29  
Scale: 1 : 25

Scale 1:100



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Project Management Office  
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ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR TENDER	2025-09-05

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DRAWN BY:  
**G. POULOU**

CHECKED BY:  
**M. SHEININ**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**K. ANGER**

SHEET TITLE  
**SECTIONS AND DETAILS**

SHEET NUMBER  
**G21-086-S6002**

ISSUE  
**A**



MECHANICAL DRAWING LIST	
Sheet Number	Sheet Name
M0001	MECHANICAL DRAWING LIST
M0201	EQUIPMENT SCHEDULE-1
M0202	EQUIPMENT SCHEDULE-2
M1101	DEMOLITION PLAN - BASEMENT
M1102	DEMOLITION PLAN - GROUND FLOOR OVERALL PLAN - 1
M1103	DEMOLITION PLAN - GROUND FLOOR OVERALL PLAN - 2
M1104	DEMOLITION PLAN - MEZZANINE FLOOR
M2101	PLUMBING - BASEMENT
M2102	PLUMBING - MEZZANINE FLOOR
M3101	DRAINAGE - BASEMENT
M3102	DRAINAGE - GROUND FLOOR OVERALL PLAN
M3103	DRAINAGE - MEZZANINE FLOOR
M5101	HVAC - BASEMENT
M5102	HVAC - GROUND FLOOR OVERALL PLAN
M5103	HVAC - MEZZANINE FLOOR
M5104	HVAC - ROOF
M6101	FIRE PROTECTION - BASEMENT
M6102	FIRE PROTECTION - GROUND FLOOR OVERALL PLAN - 1
M6103	FIRE PROTECTION - MEZZANINE FLOOR
M6104	FIRE PROTECTION - GROUND FLOOR OVERALL PLAN - 2

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ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-18
B	90% SUBMISSION	2022-03-04
C	ISSUED FOR PERMIT	2022-03-18
D	ISSUED FOR PERMIT REV 1/ TENDER	2023-02-17
E	100% SUBMISSION	2023-02-23
F	ISSUED FOR REVISED 100% SUBMISSION	2024-04-19
G	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
H	ISSUED FOR REVISED PERMIT REV 3	2025-02-28
I	ISSUED FOR TENDER	2025-09-05

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NEW PARAMEDICS  
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160 RIVALDA RD

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY: K.DURUKAN	CHECKED BY: N.KHOURY
------------------------	-------------------------

PROJECT MGR: F. BOLOURIAN	APPROVED BY: S.LIU
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SHEET TITLE  
MECHANICAL DRAWING  
LIST

SHEET NUMBER G21-086-M0001	ISSUE I
-------------------------------	------------

PUMP SCHEDULE										
GENERAL			PUMP			MOTOR			OPERATING MEDIUM	NOTES
TAG NO.	SERVICE	MANUFACTURER/ MODEL NO.	CAPACITY (LPS)	HEAD (M)	TYPE	HP	RPM	V/Ph/Hz	FLUID	
SP-01	ELEVATOR	FLYGT NP 3085.060 15-10-4AL-W	3.51	5.04	SUBMERSIBLE	2.2	1730	208/3/60	SANITARY	C/W CONTROL PANEL, DISCONNECT SWITCH, AND ALL NECESSARY ACCESSORIES AS SPECIFIED AND SHOWN ON DETAILS, LEAD-LAG OPERATION WITH HIGH WATER LEVEL ALARM
SP-02	ELEVATOR	FLYGT NP 3085.060 15-10-4AL-W	3.51	5.04	SUBMERSIBLE	2.2	1730	208/3/60	SANITARY	C/W CONTROL PANEL, DISCONNECT SWITCH, AND ALL NECESSARY ACCESSORIES AS SPECIFIED AND SHOWN ON DETAILS, LEAD-LAG OPERATION WITH HIGH WATER LEVEL ALARM

ELECTRICAL HEATER SCHEDULE									
TAG NO.	SERVICE	MANUFACTURER/ MODEL NO.	CAPACITY OUTPUT (KW)	V/Ph/Hz	WEIGHT (KG)	FAN			NOTES
						POWER (KW)	FLOW (LPS)		
EH-01	BARRIER FREE STALL - 012	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-02	WC STALL - 011	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-03	WC STALL - 010	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-04	WC STALL - 017	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-05	WC STALL - 016	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-06	WC STALL - 015	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-07	STAIR A - 005	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-08	ELEVATOR SHAFT	OUELLET OAC06000-T	4.5	208/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-09	ELEVATOR SUMP PUMP ROOM - 013	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-10	UNIVERSAL WASHROOM - 103	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-11	STAIR A - 137	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-12	LUNCH ROOM - 004	OUELLET ODI1508	1.5	208/1/60	9	-	-	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-13	LUNCH ROOM - 004	OUELLET ODI1508	1.5	208/1/60	9	-	-	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-14	LUNCH ROOM - 004	OUELLET ODI1508	1.5	208/1/60	9	-	-	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-15	OFFICE AREA - 133	OUELLET ODI1508	1.5	208/1/60	9	-	-	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-16	OFFICE AREA - 133	OUELLET ODI1508	1.5	208/1/60	9	-	-	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-17	OFFICE AREA - 133	OUELLET ODI1508	1.5	208/1/60	9	-	-	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-18	CHANGE ROOM - 009	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-19	CHANGE ROOM - 009	OUELLET OAC01502-T	1.5	120/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	
EH-20	VESTIBULE 140	OUELLET OAC03000-T	2.25	208/1/60	10.9	-	75	DISCONNECT SWITCH, C/W BUILT-IN THERMOSTAT	

AC SYSTEM - INDOOR UNIT							
TAG No.	SERVICE	LOCATION	MANUFACTURE / MODEL No.	AIR FLOW (Lo-Mid-Hi) L/S	V/Ph/Hz	MCA	WEIGHT (LBS)
AC-01	CONTROL CLOSET - 134	CONTROL CLOSET - 134	MITSUBISHI PKAA12HA7	150- 175- 200	208/1/60	1	69
AC-02	MEETING ROOM - 136	MEETING ROOM - 136	MITSUBISHI PEAD-A24AA7	240- 300- 350	208/1/60	2.63	69
AC-03	TRAINING ROOM - 129	MEETING ROOM - 101	MITSUBISHI PEAD-A24AA7	240- 300- 350	208/1/60	2.63	69
AC-04	CHANGE ROOM - 009	CHANGE ROOM - 009	MITSUBISHI PKA-A24KA7	260- 300- 350	208/1/60	1	50
AC-05	MAIN TRAINING ROOM - 149	MAIN TRAINING ROOM - 149	MITSUBISHI PEAD-030AA8	291- 350- 416	208/1/60	2.73	69
AC-06	MEDICATION STORAGE RM - 147	MEDICATION STORAGE RM - 147	MITSUBISHI PEAD-A12AA8	167- 200- 233	208/1/60	1.45	58
NOTE: 1. C/W PIPING, VALVES AND FITTING CONNECT TO OUTDOOR UNIT. 2. C/W 7-DAY/24HRS PROGRAMMABLE WALL MOUNTED THERMOSTAT WITH LCD DISPLAY. 3. C/W CONDENSATE PUMP, RETURN AIR FILTER BOX. 4. C/W VIRBATION ISOLATION FOR HANGING SUPPORT & DUCT CONNECTION, C/W DISCONNECT SWITCH.							

AC SYSTEM - OUTDOOR UNIT								
TAG No.	SERVICE	LOCATION	MANUFACTURE / MODEL No.	MAX HEATING CAPACITY (BTU/h) 5°F / -13°F	RATED COOLING CAPACITY (BTU/h) 95°F	V/Ph/Hz	MCA	REFRIGERANT
ACCU-01	ELEVTOR CLOSET - 134	ROOF	MITSUBISHI PUY-A12NKA7	-	12000	208/1/60	11	R410A
ACCU-02	MEETING ROOM - 136	ROOF	MITSUBISHI SUZ-KA24NAHZ	25000 / 20000	24000	208/1/60	17	R410A
ACCU-03	TRAINING ROOM - 129	ROOF	MITSUBISHI SUZ-KA24NAHZ	25000 / 20000	24000	208/1/60	17	R410A
ACCU-04	CHANGE ROOM - 009	ROOF	MITSUBISHI PUZ-HA24NHA1	26000 / 20800	24000	208/1/60	17	R410A
ACCU-05	CENTRAL MEDICATION STORAGE ROOM - 147	ROOF	MITSUBISHI PUZ-HA30NKA	32000 / 25600	30,000	208/1/60	24	R410A
ACCU-06	MEDICATION STORAGE RM - 147	ROOF	MITSUBISHI SUZ-KA12NAHZ	14490 / 6231	12000	208/1/60	14	R410A
NOTE: 1. C/W PIPING, VALVES AND FITTING CONNECT TO INDOOR UNIT. 2. C/W WALL MOUNTING SUPPORT. 3. C/W DISCONNECT SWITCH. 4. C/W WIND/SNOW PROTECTION, DEFROST, DRAIN PAN HEATER AND ACCESSORIES TO ALLOW LOW ABMIENT HEATING OPERATION DOWN TO -25°C (-13°F).								

EXHAUST FAN SCHEDULE									
TAG NO.	SERVICE	MANUFACTURER/ MODEL NO.	FAN		TYPE	MOTOR			NOTES
			CAPACITY (LPS)	S.P. (Pa)		HP	RPM	V/Ph/Hz	
EF-01	UNIVERSAL WASHROOM - 103	GREENHECK MODEL SP-A190	56	93	CEILING EXHAUST DIRECT DRIVE	1/50	1400	115/1/60	CONTROLLED BY LIGHTING SWITCH, C/W EXHAUST GRILLE, DISCONNECT SWITCH, BACKDRAFT DAMPER, ROUND DUCT CONNECTOR AND HANGING KIT TO BE CONFIGURED FOR SIDEWALL MOUNTING C/W DISCONNECT, AUTOMATIC DAMPER AND BIRDSCREEN
EF-02	ELEVATOR SHAFT	GREENHECK CUE-070-D	95	75	WALL MOUNTED DIRECT DRIVE	25WATT	1550	115/1/60	

SEQUENCE OF OPERATION - GENERAL NOTE

READ IN CONJUNCTION WITH MECHANICAL DRAWING DETAIL DW.G. D3701

SEQUENCE OF OPERATION - SPLIT AIR CONIDTIONING / HEAT PUMP SYSTEM

SYSTEM START AND STOP:

BUILDING OPERATOR TO MANUAL START / STOP SYSTEM

NORMAL OPERATION:

SPLIT AC / HEAT PUMP SYSTEM OPERATES UNDER OEM CONTROL TO MAINTAIN SPACE TEMPERATURE FOR OCCUPIED HOUR AND UN-OCCUPIED HOUR. NO BAS CONTROL. PROVIDE OPERATION PROGRAMMING THROUGH 7-DAYS/24-HRS PROGRAMMABLE THERMOSTAT  
SPACE TEMPERATURE SETTING (FILED ADJUSTABLE):  
- OCCUPIED HOUR / ROOM: HEATING 22°C ; COOLING 24°C  
- UNOCCUPIED HOUR / ROOM: HEATING 20°C ; COOLING 26°C  
FAN SPEED OPERATES UNDER OEM CONTROL TO MEETING TEMPERATURE SET POINTS. RUN LOW-SPEED WHEN NO COOLING / HEATING REQUIRED DURING OCCUPIED HOUR IN OCCUPIED SPACE; AND SWITCH FAN OFF WHEN NO COOLING / HEATING REQUIRED DURING UNOCCUPIED CONDITION.

SCHEDULE:

CONTINUOUS OPERATION MATCH BUILDING OPERATION HOURS

SEQUENCE OF OPERATION - ENERGY RECOVERY VENTILATION SYSTEM

SYSTEM START AND STOP:

BUILDING OPERATOR TO MANUAL START / STOP SYSTEM

NORMAL OPERATION:

ERV SYSTEM OPERATES UNDER OEM CONTROL TO PROVIDE INDICATED FLOWRATE OF FRESH AIR AND EXHAUST AIR DURING OCCUPIED HOUR. NO BAS CONTROL. PROVIDE OPERATION PROGRAMMING THROUGH 7-DAYS/24-HRS PROGRAMMABLE TIMER.  
ELECTRICAL DUCT HEATER OPERATES UNDER OEM CONTROL TO MODULATE HEATING OUTPUT TO MAINTAIN SUPPLY AIR AT TEMPERATURE DESCRIBE IN EQUIPMENT SCHEDULE.

SCHEDULE:

CONTINUOUS OPERATION MATCH BUILDING OPERATION HOURS

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B	90% SUBMISSION	2022-03-04
C	ISSUED FOR PERMIT	2022-03-18
D	ISSUED FOR PERMIT REV 1/ TENDER	2023-02-17
E	100% SUBMISSION	2023-02-23
F	ISSUED FOR REVISED 100% SUBMISSION	2024-04-19
G	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
H	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

PROJECT NO:

9119-19-0162 / IBI 122260

DRAWN BY:

K.DURUKAN

CHECKED BY:

N.KHOURY

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

S.LIU

SHEET TITLE

EQUIPMENT  
SCHEDULE-1

SHEET NUMBER

G21-086-M0201

ISSUE

H



ENERGY / HEAT RECOVERY UNIT SCHEDULE											
TAG No.	SERVICE (EXHAUST)	SERVICE (SUPPLY)	LOCATION	MANUFACTURE / MODEL No.	SUPPLY FLOW RATE (LPS)	EXHAUST FLOW RATE (LPS)	ESP IN H2O	V/Ph/Hz	WATTS	UNIT WEIGHT (LBS)	NOTE
ERV-01	BARRIER-FREE STALL-012 WC STALL- 010, 011, 015, 016, 017	CHANGE ROOM - 009	ELEVATOR SUMP PUMP ROOM - 013	RENEWAIRE - HE1XINV	306	306	1.0	208/3/60	691	201 - 272	1, 2, 3
ERV-02	TRAINING ROOM - 136	TRAINING ROOM - 136	TRAINING ROOM - 136	RENEWAIRE - EV PREMIUM M	70	70	0.75	120/1/60	166	36	1, 2, 3
ERV-03	MEETING ROOM - 129	MEETING ROOM - 129	MEETING ROOM - 129	RENEWAIRE - EV PREMIUM M	70	70	0.75	120/1/60	166	36	1, 2, 3
ERV-04	MAIN TRAINING ROOM - 149	MAIN TRAINING ROOM - 149	MAIN TRAINING ROOM - 149	RENEWAIRE - HE07IN	211	211	2	208/1/60	804	178-278	1, 2, 3
ERV-05	CENTRAL MEDICATION STORAGE ROOM - 147	CENTRAL MEDICATION STORAGE ROOM - 147	CENTRAL MEDICATION STORAGE ROOM - 147	RENEWAIRE - EV PREMIUM M	70	70	0.75	120/1/60	166	36	1, 2, 3
NOTE: 1. PROVIDE 24VAC 7-DAYS PROGRAMMABLE TIME CLOCK WITH ON/OFF/AUTO FUNTIONS TO CONTROL ERV. MODEL RENEWAIRE TC7D OR EQUAL. 2. UNIT TO BE INTERLOCKED WITH ELECTRICAL DUCT HEATER, MOLDULATING HEATING TO MAINTAIN SUPPLY AIR TEMPERATURE. 3. PROVIDE FILTERS, BALANCING DAMPER, VIBRATION ISOLATION FOR HANGING SUPPORT & DUCT CONNECTION, DISCONNECT SWITCH.											

ELECTRICAL DUCT HEATER SCHEDULE							
TAG No.	SERVICE	LOCATION	MANUFACTURE / MODEL No.	AIRFLOW (LPS)	HEATING CAPACITY (KW)	V/Ph/Hz	REMARK
EDH-01	ERV-01 SUPPLY AIR	CHANGE ROOM - 009	RENEWAIRE - RH SERIES	306	10	208/1/60	SELF-REGULATED ELEC DUCT HEATER C/W CONTROLS AND SENSORS, INTERLOCK WITH ERV-1, MOLDULATING HEAT OUTPUT TO MAINTAIN SUPPLY AIR TEMPERATURE TO BE ABOVE 22°C (72°F).
EDH-02	ERV-02 SUPPLY AIR	TRAINING ROOM - 136	RENEWAIRE - RH SERIES	70	2	120/1/60	SELF-REGULATED ELEC DUCT HEATER C/W CONTROLS AND SENSORS, INTERLOCK WITH ERV-2, MOLDULATING HEAT OUTPUT TO MAINTAIN SUPPLY AIR TEMPERATURE TO BE ABOVE 20°C (68°F).
EDH-03	ERV-03 SUPPLY AIR	MEETING ROOM - 129	RENEWAIRE - RH SERIES	70	2	120/1/60	SELF-REGULATED ELEC DUCT HEATER C/W CONTROLS AND SENSORS, INTERLOCK WITH ERV-3, MOLDULATING HEAT OUTPUT TO MAINTAIN SUPPLY AIR TEMPERATURE TO BE ABOVE 20°C (68°F).
EDH-04	ERV-04 SUPPLY AIR	MAIN TRAINING ROOM - 149	RENEWAIRE - RH SERIES	211	10	208/1/60	SELF-REGULATED ELEC DUCT HEATER C/W CONTROLS AND SENSORS, INTERLOCK WITH ERV-3, MOLDULATING HEAT OUTPUT TO MAINTAIN SUPPLY AIR TEMPERATURE TO BE ABOVE 20°C (68°F).
EDH-05	ERV-05 SUPPLY AIR	CENTRAL MEDICATION STORAGE ROOM - 147	RENEWAIRE - RH SERIES	70	2	120/1/60	SELF-REGULATED ELEC DUCT HEATER C/W CONTROLS AND SENSORS, INTERLOCK WITH ERV-3, MOLDULATING HEAT OUTPUT TO MAINTAIN SUPPLY AIR TEMPERATURE TO BE ABOVE 20°C (68°F).
NOTE: UL LISTD DUCT HEATER C/W SCR CONTROL, TEMPERATURE & AIR FLOW SAFETY MONITORING SENSORS, AUTOMATIC OVER HEAT PROTECTION, DISCONNECT SWITCH.							

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C	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS  
NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

PROJECT NO: 9119-19-0162 / IBI 122260	
DRAWN BY: K.DURUKAN	CHECKED BY: N.KHOURY
PROJECT MGR: F. BOLOURIAN	APPROVED BY: S.LIU

SHEET TITLE  
EQUIPMENT  
SCHEDULE-2

SHEET NUMBER G21-086-M0202	ISSUE C
-------------------------------	------------

EXISTING SPRINKLER TEST/INPECTION  
OUTLET & SHUT-OFF VALVE LINE TO REMAIN

EXISTING ABANDONED PLUMBING FIXTURE,  
FLOOR DRAIN AND ASSOCIATED DCW, DHW,  
SANITARY AND VENT TO BE REMOVED.  
CONTRACTOR TO VERIFY EXACT PIPING  
LAYOUT ON SITE

EXISTING UN-USED UNDERGROUND BRANCH  
PIPING TO BE REMOVED & CAPPED,  
CONTRACTOR SHALL VERIFY EXACT SAN  
SYSTEM LAYOUT ON SITE

EXISTING MAIN SUPPLY AND RETURN  
DUCTWORK FROM ABOVE TO REMAIN, ALL  
DISTRIBUTION DUCTWORK, DIFFUSERS AND  
GRILLES TO BE REMOVED, CONTRACTOR TO  
VERIFY EXACT EXISTING LAYOUT ON SITE

EXISTING ABANDONED PLUMBING FIXTURE,  
FLOOR DRAIN AND ASSOCIATED DCW, DHW,  
SANTARY AND VENT TO BE REMOVED.  
CONTRACTOR TO VERIFY EXACT PIPING  
LAYOUT ON SITE

POSSIBLE LOCATION OF EXISTING  
UNDERGROUND SAN MAIN LINE,  
CONTRACTOR SHALL VERIFY EXACT  
LOCATION, SIZE & INVERT ON SITE

EXISTING GRILLE AND ASSOCIATED  
DUCTWORK, FAN AND CONTROL TO BE  
REMOVED. PATCH OPENING AND MAKE  
GOOD FINISH, CONTRACTOR TO VERIFY  
EXACT LAYOUT ON SITE

1 DEMOLITION - BASEMENT

M1101 Scale: 1 : 50

APPROX. LOCATION OF EXISTING SPRINKLER  
HEAD AND PIPING LAYOUT, CONTRACTOR SHALL  
VERIFY EXACT SYSTEM LAYOUT AND CAPACITY.  
REFER M6101 FOR NEW SPRINKLER HEAD  
LAYOUT, MODIFY EXISTING PIPING AND HEAD  
LOCATION TO SUIT NEW LAYOUT (TYP. FOR ALL)

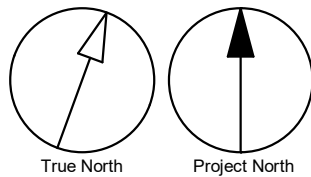
REMOVE ABANDONED SAN PIPING, CAP  
BACK TO MAIN

EXISTING DCW AND DHW LINES FROM MECH  
ROOM, CONTRACTOR TO VERIFY EXACT  
LOCATION AND SIZE ON SITE, REMOVE/CAP  
ABANDONED BRANCH PIPING AND  
MODIFY/EXTEND PIPING TO SUIT NEW  
LAYOUT

ALL EXISTING MECHANICAL SYSTEM IN  
MECH ROOM TO REMAIN

EXISTING SPRINKLER MAIN LINE AND FDC  
LINE TO REMAIN, CONTRACTOR SHALL  
VERIFY EXACT PIPING LAYOUT ON SITE

- GENERAL NOTES:
- CONTRACTOR TO VERIFY SITE CONDITION.
  - REMOVE AND CAP EXISTING SERVICES AS SHOWN ON THE DRAWING.
  - ALL EXISTING SERVICES SHALL REMAIN UNLESS OTHERWISE NOTED.
  - CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.



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D	ISSUED FOR PERMIT REV 1/ TENDER	2023-02-17
E	100% SUBMISSION	2023-02-23
F	ISSUED FOR REVISED 100% SUBMISSION	2024-04-19
G	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
H	ISSUED FOR REVISED PERMIT REV 3	2025-02-28
I	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S.LIU**

SHEET TITLE  
**DEMOLITION PLAN -  
BASEMENT**

SHEET NUMBER  
**G21-086-M1101**

ISSUE  
**I**



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ISSUES		
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B	100% SUBMISSION	2023-02-23
C	ISSUED FOR REVISED 100% SUBMISSION	2024-04-19
D	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
E	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

PROJECT NO:  
9119-19-0162 / IBI 122260

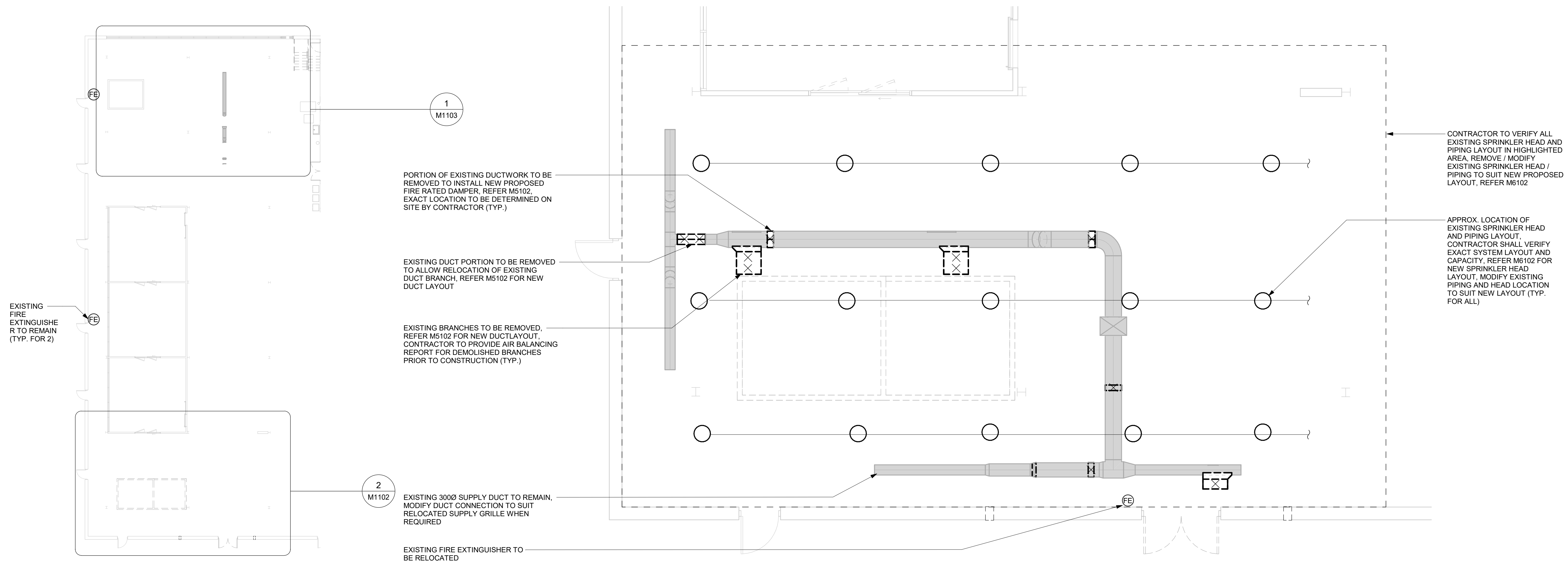
DRAWN BY: K.DURUKAN	CHECKED BY: N.KHOURY
------------------------	-------------------------

PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>S.LIU</b>
-------------------------------------	------------------------------

SHEET TITLE

DEMOLITION PLAN -  
GROUND FLOOR  
OVERALL PLAN - 1

SHEET NUMBER	ISSUE
G21-086-M1102	E



1 DEMOLITION PLAN - GROUND FLOOR OVERALL PLAN  
M1102 Scale: 1 : 200

2 DEMOLITION PLAN - GROUND FLOOR OVERALL PLAN - ENLARGED PLAN 2  
M1102 Scale: 1 : 50

GENERAL NOTES:

1. CONTRACTOR TO VERIFY SITE CONDITION.
2. REMOVE AND CAP EXISTING SERVICES AS SHOWN ON THE DRAWING.
3. ALL EXISTING SERVICES SHALL REMAIN UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.

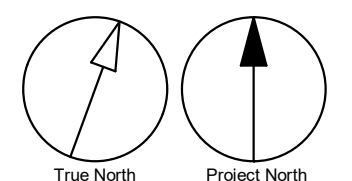
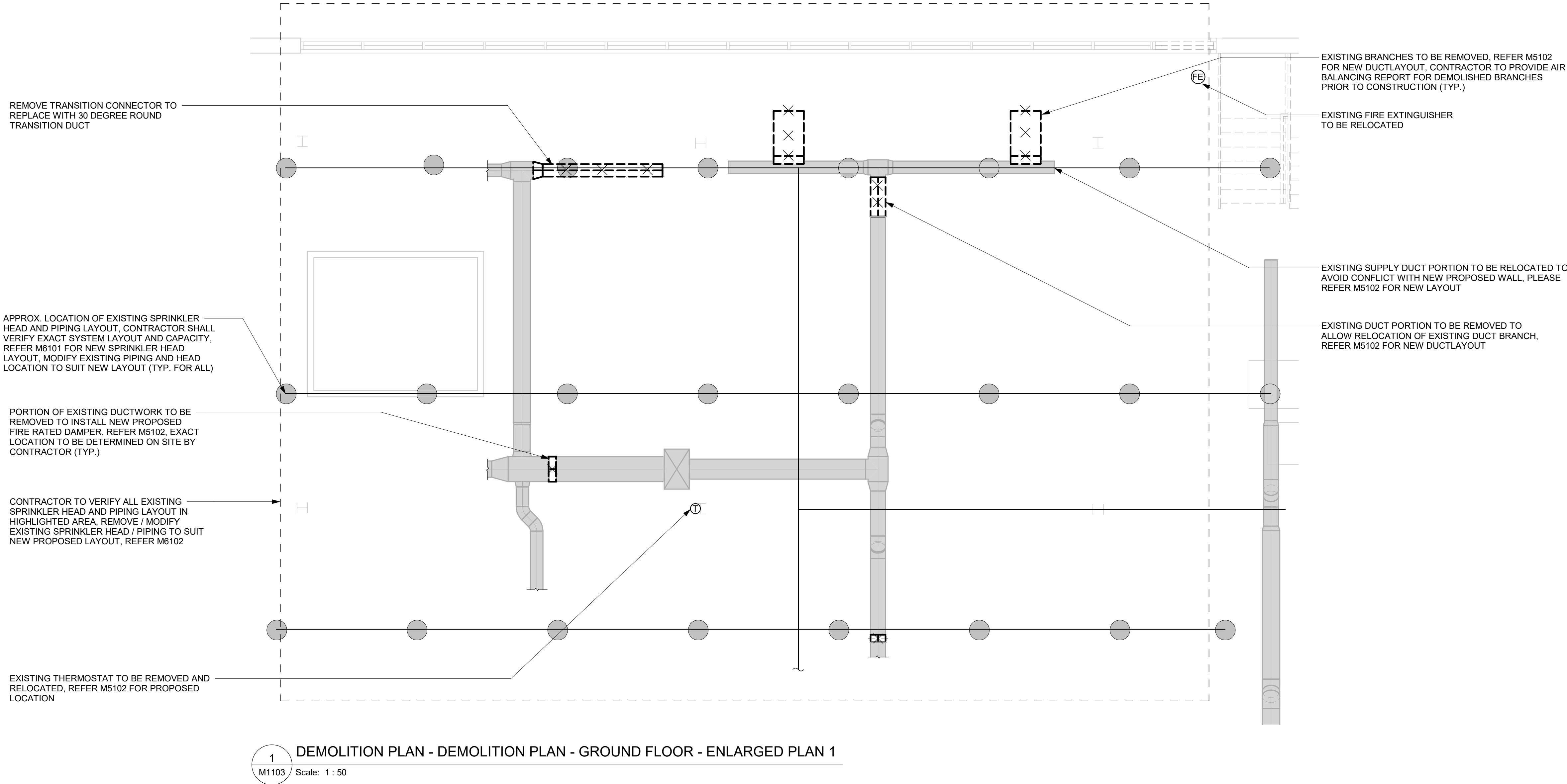
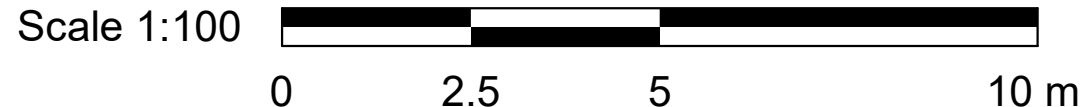


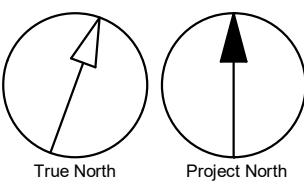
Figure 1 displays two scale bars. The top scale bar is for a 1:50 scale, showing a total length of 5 m with markers at 0, 1, 2.5, and 5 m. The bottom scale bar is for a 1:200 scale, showing a total length of 20 m with markers at 0, 5, 10, and 20 m.

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1  
M1103 DEMOLITION PLAN - DEMOLITION PLAN - GROUND FLOOR - ENLARGED PLAN 1  
Scale: 1 : 50

- GENERAL NOTES:
1. CONTRACTOR TO VERIFY SITE CONDITION.
  2. REMOVE AND CAP EXISTING SERVICES AS SHOWN ON THE DRAWING.
  3. ALL EXISTING SERVICES SHALL REMAIN UNLESS OTHERWISE NOTED.
  4. CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.



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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S.LIU**

SHEET TITLE  
**DEMOLITION PLAN -  
GROUND FLOOR  
OVERALL PLAN - 2**

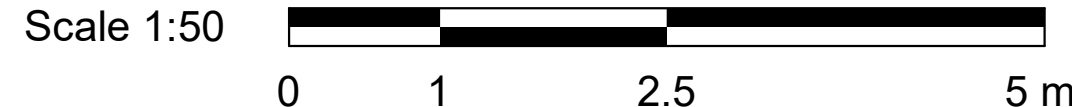
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**G21-086-M1103**

ISSUE  
**C**

Autodesk Docs // 122260 - Cot TAU Upgrades R2024122260-TAU-5-66-160RVLDA-MR20.rvt 1/10m 1/1m

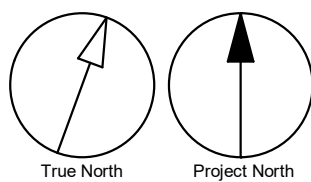


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1 DEMOLITION - MEZZANINE FLOOR  
M1104 Scale: 1 : 50

- GENERAL NOTES:
1. CONTRACTOR TO VERIFY SITE CONDITION.
  2. REMOVE AND CAP EXISTING SERVICES AS SHOWN ON THE DRAWING.
  3. ALL EXISTING SERVICES SHALL REMAIN UNLESS OTHERWISE NOTED.
  4. CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.



EXISTING SPRINKLER TEST/INSPECTION  
OUTLET & SHUT-OFF VALVE LINE TO REMAIN

EXISTING SUPPLY & RETURN AIR BRANCH  
DISTRIBUTION DUCT TO BE REMOVED

EXISTING SUPPLY & RETURN AIR DUCT  
FROM RTU TO REMAIN

EXISTING RTU ON ROOF TO REMAIN

EXISTING RTU ON ROOF TO REMAIN

EXISTING OPENING TO BE PATCHED,  
MAKE GOOD FINISH

EXISTING SUPPLY & RETURN AIR DUCTS  
DN. TO BASEMENT TO REMAIN

EXISTING SPRINKLER HEAD TO BE REMOVED,  
MODIFY PIPING TO SUIT NEW SPRINKLER  
LAYOUT

EXISTING DRYER EXHAUST DUCT TO BE  
RE-ROUTED TO ACCOMODATE NEW  
ELEVATOR STRUCTURE

EXISTING DRYER & WASHER AND  
ASSOCIATED SERVICES CONNECTIONS  
TO REMAIN

CONTRACTOR TO VERIFY EXISTING  
EXHAUST/VENT TO ROOF, REMOVE EXISTING  
FAN AND DUCTWORK FOR ABANDONED  
SYSTEMS, PATCH OPENING AND MAKE GOOD  
FINISH (TYP. FOR 5)

EXISTING TOILET, LAVATORY, EXHAUST  
SYSTEM TO BE REMOVED. CAP/REMOVE  
ASSOCIATED PIPING TO MAIN LINE (TYP FOR 2  
WASHROOMS)

EXISTING SPRINKLER HEAD TO BE REMOVED,  
MODIFY PIPING TO SUIT NEW SPRINKLER  
LAYOUT

EX. THROUGH ROOF

EX. THROUGH ROOF

EX. THROUGH ROOF

EX.  
THROUGH  
ROOF

EX.  
THROUGH  
ROOF

CONTRACTOR TO VERIFY EXISTING  
EXHAUST/VENT TO ROOF, REMOVE EXISTING  
FAN AND DUCTWORK FOR ABANDONED  
SYSTEMS, PATCH OPENING AND MAKE GOOD  
FINISH (TYP. FOR 5)

APPROX. LOCATION OF EXISTING SPRINKLER  
HEAD AND PIPING LAYOUT. CONTRACTOR SHALL  
VERIFY EXACT SYSTEM LAYOUT AND CAPACITY.  
REFER M6103 FOR NEW SPRINKLER HEAD  
LAYOUT, MODIFY EXISTING PIPING AND HEAD  
LOCATION TO SUIT NEW LAYOUT (TYP. FOR ALL)

EXISTING SPRINKLER MAIN LINE TO REMAIN,  
CONTRACTOR SHALL VERIFY EXACT LAYOUT,  
CAPACITY AND SIZE ON SITE

EXISTING SPRINKLER RISER/VALVE  
SYSTEMS TO REMAIN

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G	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
H	ISSUED FOR REVISED PERMIT REV 3	2025-02-28
I	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S.LIU**

SHEET TITLE  
**DEMOLITION PLAN -  
MEZZANINE FLOOR**

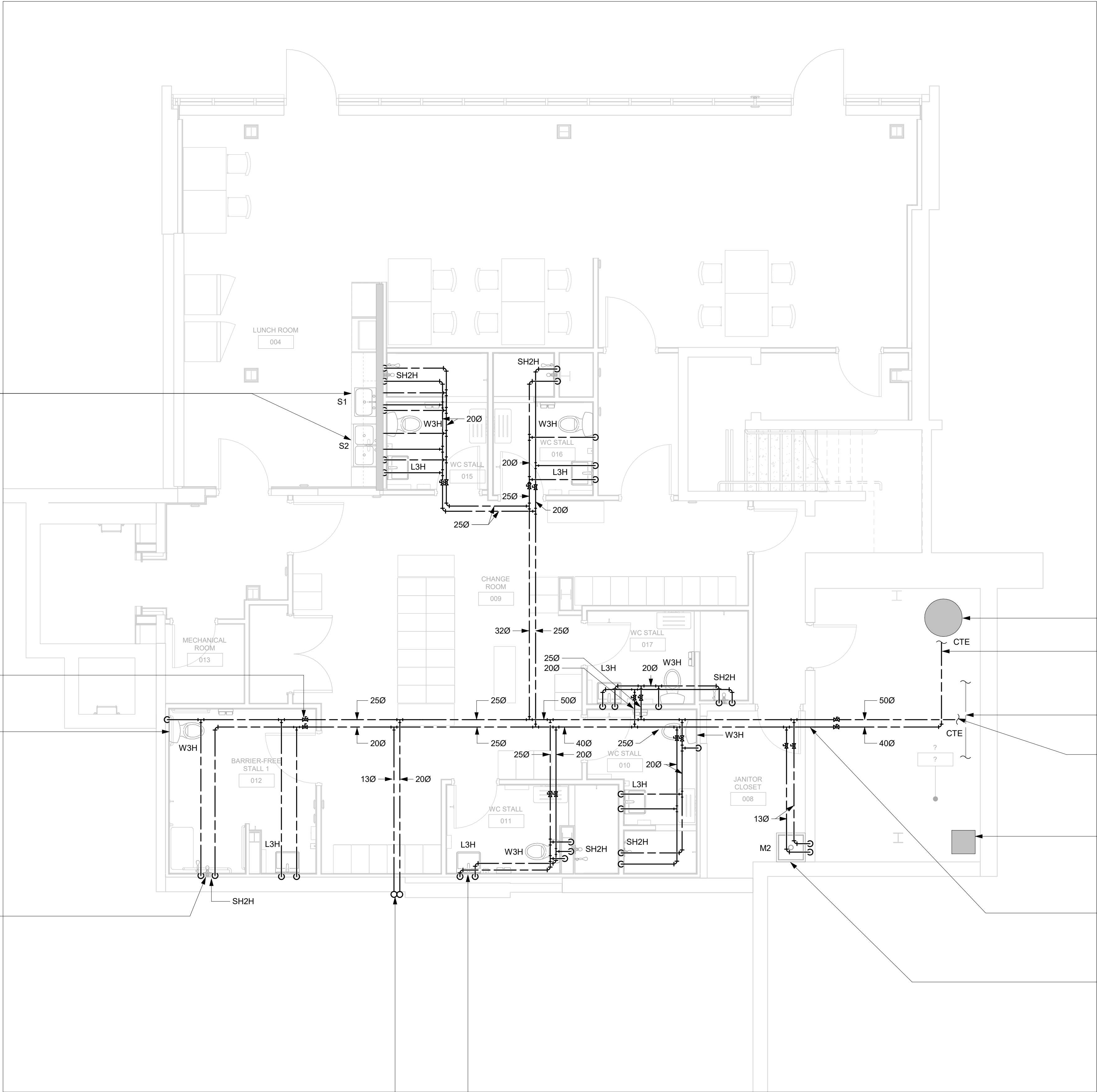
SHEET NUMBER

**G21-086-M1104**

ISSUE

**I**

Autodesk Docs // 122260 - Cot TAU Upgrades R2024122260-TAU-5-66-160RVLDA-MR20.rvt 1/10m



PROVIDE NEW SINK AND C/W  
130 CW & DHW LINES

PROVIDE ISOLATION VALVES FOR  
DCW & DHW BRANCHES, FOR ACCESS  
PANEL REFER ARCH. DRAWINGS AND  
ADJUST EXACT LOCATION OF VALVES  
ON SITE (TYP. FOR 7)

PROVIDE NEW TANK TYPE WC AND  
C/W 200 DCW LINE (TYP. FOR 6)

PROVIDE NEW SHOWER HEAD AND C/W  
130 CW & DHW LINES (TYP. FOR 6)

EXISTING DOMESTIC WATER  
HEATER

PROVIDE 400 DHW LINE SERVING  
BASEMENT AND GROUND FLOOR  
NEW BARRIER FREE WASHROOM,  
CONNECT FROM DWH

EXISTING DCW MAIN LINE,  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND SIZE ON SITE

PROVIDE 500 DCW LINE SERVING  
BASEMENT AND GROUND FLOOR  
NEW BARRIER FREE WASHROOM,  
CONNECT FROM DCW MAIN LINE

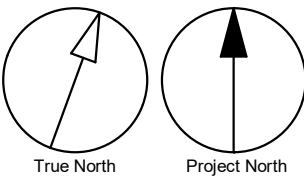
EXISTING WATER METER

PROVIDE FIRE STOP ON FIRE  
RATED WALL PENETRATION  
(TYP.)

PROVIDE NEW MOP SINK AND  
C/W 130 CW & DHW LINES

1 PLUMBING - BASEMENT  
M2101 Scale: 1 : 50  
REFER M2102 FOR CONTINUATION  
PROVIDE NEW LAV AND C/W 130  
DCW & DHW LINES (TYP. FOR 6)

- GENERAL NOTES:
- REFER TO SPECIFICATIONS FOR PLUMBING FIXTURE UNIT TYPES.
  - ALL NEW FIXTURES TO BE FITTED WITH ISOLATION VALVES.
  - PROVIDE PIPE SLEEVE AND FIRE SEAL ALL PIPE PENETRATING FIRE RATED SEPARATION. REFER ARCH DWG FOR EXACT RATING REQUIREMENT.
  - CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.



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F	ISSUED FOR REVISED 100% SUBMISSION	2024-04-19
G	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
H	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

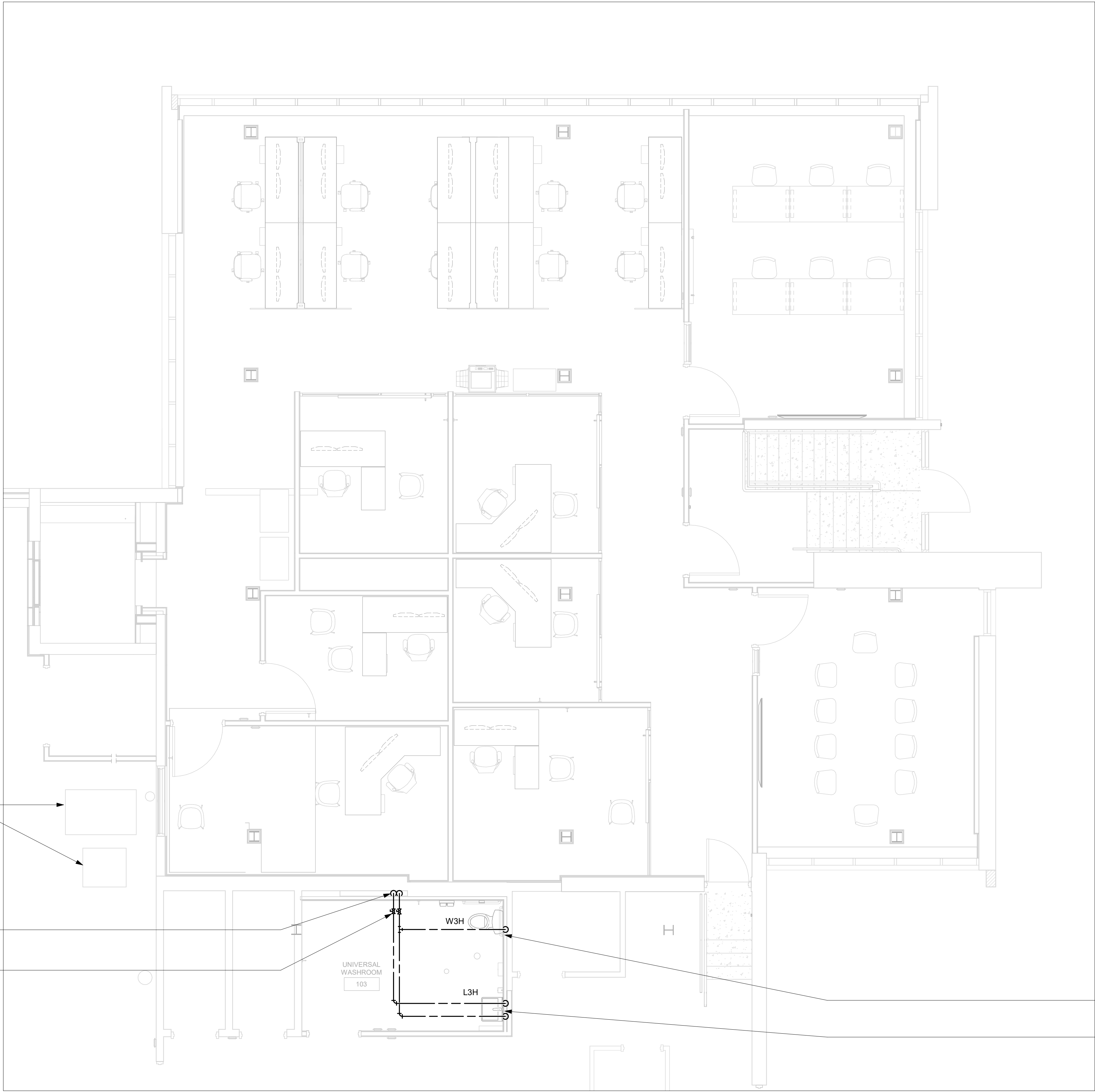
APPROVED BY:  
**S.LIU**

SHEET TITLE  
**PLUMBING - BASEMENT**

SHEET NUMBER  
**G21-086-M2101**

ISSUE  
**H**





1 PLUMBING - MEZZANINE FLOOR  
M2102 Scale: 1 : 50

EXISTING DRYER & WASHER AND ASSOCIATED SERVICES CONNECTIONS TO REMAIN

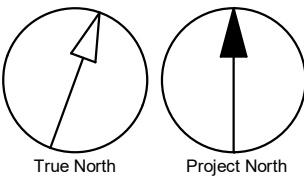
200 DCW AND 130 DHW UP FROM BELOW, REFER TO M2101 FOR CONTINUATION

PROVIDE ISOLATION VALVES FOR DCW & DHW BRANCES FOR ACCESS PANEL REFER ARCH. DRAWINGS AND ADJUST EXACT LOCATION OF VALVES ON SITE

PROVIDE NEW TANK TYPE WC AND C/W 200 DCW LINE

PROVIDE NEW LAV AND C/W 130 DCW & DHW LINES

- GENERAL NOTES:
- REFER TO SPECIFICATIONS FOR PLUMBING FIXTURE UNIT TYPES.
  - ALL NEW FIXTURES TO BE FITTED WITH ISOLATION VALVES.
  - PROVIDE PIPE SLEEVE AND FIRE SEAL ALL PIPE PENETRATING FIRE RATED SEPARATION. REFER ARCH DWG FOR EXACT RATING REQUIREMENT.
  - CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.



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PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S.LIU**

SHEET TITLE  
**PLUMBING - MEZZANINE  
FLOOR**

SHEET NUMBER  
**G21-086-M2102**

ISSUE  
**H**

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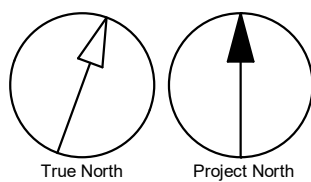
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Scale 1:50



1 DRAINAGE - BASEMENT  
M3101 Scale: 1 : 50

- GENERAL NOTES:
- REFER TO SPECIFICATIONS FOR PLUMBING FIXTURE UNIT TYPES.
  - PROVIDE SANITARY VENT FOR EACH NEW PLUMBING FIXTURE AND CONNECT TO EXISTING SANITARY VENT MAIN.
  - PROVIDE P-TRAP FOR EACH PLUMBING FIXTURE AS PER OBC.
  - ALL NEW FLOOR DRAINS SHALL BE C/W P-TRAP AND PRIMER.
  - PROVIDE FIRE STOP FOR ALL PIPE PENETRATIONS THROUGH FIRE SEPERATIONS.
  - ALL UNDERGROUND SANITARY PIPING SHALL BE MINIMUM 75mmØ UNLESS OTHERWISE NOTED.
  - PROVIDE PIPE SLEEVE AND FIRE SEAL ALL PIPE PENETRATING FIRE RATED SEPARATION. REFER ARCH DWG FOR EXACT RATING REQUIREMENT.
  - CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.



PROVIDE NEW SINK AND C/W 50Ø SAN LINE, CONNECT FROM EXISTING SAN MAIN LINE, CONNECT DISHWASHER SAN LINE TO SINK DRAINAGE

PROVIDE COMPLETE VENT PIPING DISTRIBUTION FOR ALL NEW PLUMBING FIXTURES PER OBC REQUIREMENT

PROVIDE 25Ø CONDENSATE LINE SERVING AC ON GROUND FLOOR INDIRECT PIPE TO FUNNEL FLOOR DRAIN

PROVIDE NEW 100Ø VENT MAIN LINE UP TO ROOF, REFER GROUND FLOOR DWG FOR CONTINUATION

PROVIDE AC CONDENSATE LINE INDIRECTLY CONNECT TO FUNNEL FLOOR DRAIN

PROVIDE FIRE STOP FOR FIRED RATED WALL PENETRATION (TYP.)

PROVIDE FUNNEL FLOOR DRAIN FD-D FOR AC UNIT INDIRECT CONDENSATE CONNECTION (TYP. FOR 5)

PROVIDE 100Ø SAN LINE AND PIT DRAIN INTERATED BACKFLOW VALVE, WATTS BV-600 OR EQUAL

RUNNING TRAP & CLEANOUT REFER TO DETAIL D3301-1, C/W PRIMER CONNECTION

PROVIDE SUMP PIT 1200X1200X4700(DEPTH), WITH 50GPM DUPLEX LEAD-LAG PUMPS REFER TO DETAIL D3301-1

PROVIDE SLEEVE & SEALANT FOR PIPING PENETATING FOUNDATION WALL (TYP)

PROVIDE 75Ø PUMPED SAN LINE DOWN AND CONNECT TO GRAVITY DRAIN SYSTEM

PROVIDE NEW TANK TYPE WC AND C/W 75Ø SAN LINE, CONNECT FROM EXISTING SAN MAIN LINE (TYP. FOR 6)

PROVIDE COMPLETE VENT PIPING DISTRIBUTION FOR ALL NEW PLUMBING FIXTURES PER OBC REQUIREMENT

PROVIDE NEW FLOOR DRAIN AND C/W 75Ø SAN LINE, CONNECT FROM EXISTING SAN MAIN LINE (TYP. FOR 6)

PROVIDE NEW SHOWER DRAIN AND C/W 75Ø SAN LINE, CONNECT FROM EXISTING SAN MAIN LINE (TYP. FOR 6)

CONTRACTOR SHALL VERIFY EXACT LOCATION AND INVERT OF EXISTING BURIED 100Ø MAIN LINE, COORDINATE EXACT PIPING LAYOUT ON SITE TO CONNECT PROPOSED FIXTURES TO EXISTING MAIN LINE (TYP. FOR ALL CTE LOCATIONS)

75Ø SAN DOWN FROM FLOOR ABOVE, REFER TO M3102 FOR CONTINUATION

PROVIDE NEW LAV AND C/W 50Ø SAN LINE, CONNECT FROM EXISTING SAN MAIN LINE (TYP. FOR 6)

ASSUMED EXISTING SAN MAIN LINE, CONTRACTOR TO VERIFY EXACT LOCATION, SIZE AND INVERT ON SITE

EXISTING WATER METER

PROVIDE NEW MOP SINK AND C/W 75Ø SAN LINE, CONNECT FROM EXISTING SAN MAIN LINE

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PROJECT TITLE

**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:

9119-19-0162 / IBI 122260

DRAWN BY:

**K.DURUKAN**

CHECKED BY:

**N.KHOURY**

PROJECT MGR:

**F. BOLOURIAN**

APPROVED BY:

**S.LIU**

SHEET TITLE

**DRAINAGE - BASEMENT**

SHEET NUMBER

**G21-086-M3101**

ISSUE

**H**

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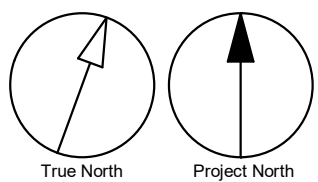
0 1 2.5 5 m

1  
M3103

DRAINAGE - MEZZANINE FLOOR

Scale: 1 : 50

- GENERAL NOTES:
- REFER TO SPECIFICATIONS FOR PLUMBING FIXTURE UNIT TYPES.
  - PROVIDE SANITARY VENT FOR EACH NEW PLUMBING FIXTURE AND CONNECT TO EXISTING SANITARY VENT MAIN.
  - PROVIDE P-TRAP FOR EACH PLUMBING FIXTURE AS PER OBC.
  - ALL NEW FLOOR DRAINS SHALL BE C/W P-TRAP AND PRIMER.
  - PROVIDE FIRE STOP FOR ALL PIPE PENETRATIONS THROUGH FIRE SEPERATIONS.
  - ALL UNDERGROUND SANITARY PIPING SHALL BE MINIMUM 75mmØ UNLESS OTHERWISE NOTED.
  - PROVIDE PIPE SLEEVE AND FIRE SEAL ALL PIPE PENETRATING FIRE RATED SEPARATION. REFER ARCH DWG FOR EXACT RATING REQUIREMENT.
  - CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.



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PROJECT TITLE

**CITY OF TORONTO**  
**ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

**NEW PARAMEDICS**  
**STATIONS**  
160 RIVALDA RD

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S.LIU**

SHEET TITLE

**DRAINAGE - MEZZANINE**  
**FLOOR**

SHEET NUMBER

**G21-086-M3103**

ISSUE

**H**

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11mm

SCALE CHECK  
1 in

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Scale 1:50



1 HVAC - BASEMENT  
M5101 Scale: 1 : 50

PROVIDE 250X200 SUPPLY AIR BRANCH  
C/W AIR VOLUME DAMPER, MODEL EH  
PRICE 500 OR EQUAL, BALANCE  
AIRFLOW TO 142 L/S

PROVIDE 400X250 WEATHERPROOF  
EXHAUST LOUVER C/W WIREMESH  
SCREEN AND BACKDRAFT DAMPER

PROVIDE NEW 7-DAYS  
PROGRAMMABLE THERMOSTAT  
CONTROL EXISTING RTU EX-RTU-2

PROVIDE 400X200 WEATHERPROOF  
FRESH AIR INTAKE LOUVER C/W  
WIREMESH SCREEN

PROVIDE FAH AT BOTTOM LEVEL OF  
SHAFT, 300MM ABOVE PIT FLOOR

AC-1 REFRIGERANT PIPING UP

PROVIDE 7 DAYS PROGRAMMABLE  
TIME SWITCH TO CONTROL ERV-1

PROVIDE WALL MOUNTED SPLIT AC  
UNIT FOR ELEV CLOSET

ERV-1, PROVIDE ERV UNIT SERVING  
CHANGE ROOM AND WASHROOMS

PROVIDE 8KW SELF REGULATED  
ELEC DUCT HEATER C/W  
CONTROLS AND SENSORS TO  
INTERLOCK WITH ERV-1

PROVIDE 400X200 SUPPLY GRILLE  
ON HIGH LEVEL WALL, MODEL EH  
PRICE 500 OR EQUAL

PROVIDE NEW 500X250 DOOR GRILLE  
(TYP. FOR 6)

PROVIDE 550X200 SUPPLY AIR BRANCH  
C/W AIR VOLUME DAMPER, MODEL EH  
PRICE 500 OR EQUAL, BALANCE  
AIRFLOW TO 425 L/S

PROVIDE NEW BASEBOARD HEATER, C/W BUILT-IN  
THERMOSTAT (TYP. FOR 3)

PROVIDE 300X150 SUPPLY AIR DIFFUSER  
C/W AIR VOLUME DAMPER, MODEL EH  
PRICE 500 OR EQUAL, BALANCE  
AIRFLOW TO 71 L/S (TYP. 8)

AC-4 REFRIGERANT PIPING UP

PROVIDE 800X200 SUPPLY AIR DUCT  
CONNECT FROM EXISTING MAIN  
DUCT, CONTRACTOR TO VERIFY  
EXACT LOCATION ON SITE, RUN NEW  
SUPPLY AIR DUCT IN PLENUM SPACE

PROVIDE NEW 500X250 FIRE RATED DOOR GRILLE

PROVIDE 800X200 RETURN AIR DUCT  
CONNECT FROM EXISTING MAIN DUCT,  
CONTRACTOR TO VERIFY EXACT  
LOCATION ON SITE, RUN NEW EXHAUST  
AIR DUCT IN PLENUM SPACE

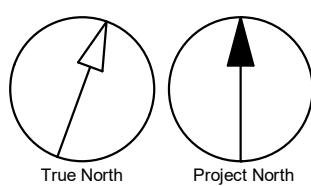
PROVIDE 150X150 EXHAUST AIR GRILLE C/W  
AIR VOLUME DAMPER, MODEL EH PRICE 500  
OR EQUAL, BALANCE AIRFLOW TO 24 L/S

PROVIDE WALL MOUNTED ELECTRICAL  
WALL FAN HEATER, C/W BUILT-IN  
THERMOSTAT (TYP. )

PROVIDE 200X100 EXHAUST AIR GRILLE  
C/W AIR VOLUME DAMPER, MODEL EH  
PRICE 500 OR EQUAL, BALANCE AIRFLOW  
TO 47 L/S (TYP. 6 IN 6 STALL)

GENERAL NOTES:

1. ADD AND ADJUST DUCTS TO FIT NEW DIFFUSERS/GRILLES.
2. THERMOSTAT & CONTROL TO BE MOUNTED AT 1200mm A.F.F.
3. PROVIDE INSULATION FOR ERV FRESH AIR INTAKE DUCT AND 3 METERS OF ERV EXHAUST DUCT AT EXTERIOR WALL.
4. REFER ARCH & ELEC DWG FOR EXACT CEILING LAYOUT, COORDINATE ON SITE FOR DIFFUSER/GRILLE INSTALLATION LOCATION.
5. PROVIDE 25MM INTERNAL ACOUSTIC LINING FOR FIRST 3 METERS OF DUCTWORK FROM RTU, CONTRACTOR TO VERIFY EXISTING DUCTWORK AND MODIFY EXISTING DUCTWORK TO INSTALL NEW ACOUSTIC LINING WHEN REQUIRED.
6. CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.



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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
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160 RIVALDA RD

PROJECT NO:

9119-19-0162 / IBI 122260

DRAWN BY:

K.DURUKAN

CHECKED BY:

N.KHOURY

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

S.LIU

SHEET TITLE

HVAC - BASEMENT

SHEET NUMBER

G21-086-M5101

ISSUE

H

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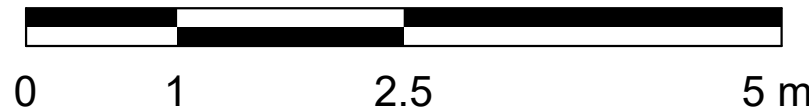
10mm

SCALE CHECK  
1 in





Scale 1:50



1  
M5103 Scale: 1 : 50

### HVAC - MEZZANINE FLOOR

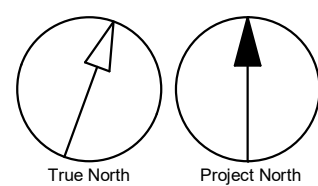
PROVIDE 2000 EXHAUST UP THROUGH ROOF C/W 1200MM GOOSENECK, WIREMESH SCREEN AND BACKDRAFT DAMPER

PROVIDE 2KW SELF REGULATED ELEC DUCT HEATER C/W CONTROLS AND SENSORS TO INTERLOCK WITH ERV-03

PROVIDE 2000 FRESH AIR INTAKE THROUGH ROOF C/W 1200MM GOOSENECK, WIREMESH SCREEN AND BACKDRAFT DAMPER

#### GENERAL NOTES:

1. ADD AND ADJUST DUCTS TO FIT NEW DIFFUSERS/GRILLES.
2. THERMOSTAT & CONTROL TO BE MOUNTED AT 1200mm A.F.F.
3. PROVIDE INSULATION FOR ERV FRESH AIR INTAKE DUCT AND 3 METERS OF ERV EXHAUST DUCT AT EXTERIOR WALL. REFER ARCH & ELEC DWG FOR EXACT CEILING LAYOUT, COORDINATE ON SITE FOR DIFFUSER/GRILLE INSTALLATION LOCATION.
4. PROVIDE 25MM INTERNAL ACOUSTIC LINING FOR FIRST 3 METERS OF DUCTWORK FROM RTU. CONTRACTOR TO VERIFY EXISTING DUCTWORK AND MODIFY EXISTING DUCTWORK TO INSTALL NEW ACOUSTIC LINING WHEN REQUIRED.
5. CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.
- 6.



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**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

#### PROJECT ADDRESS

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**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S.LIU**

SHEET TITLE  
**HVAC - MEZZANINE  
FLOOR**

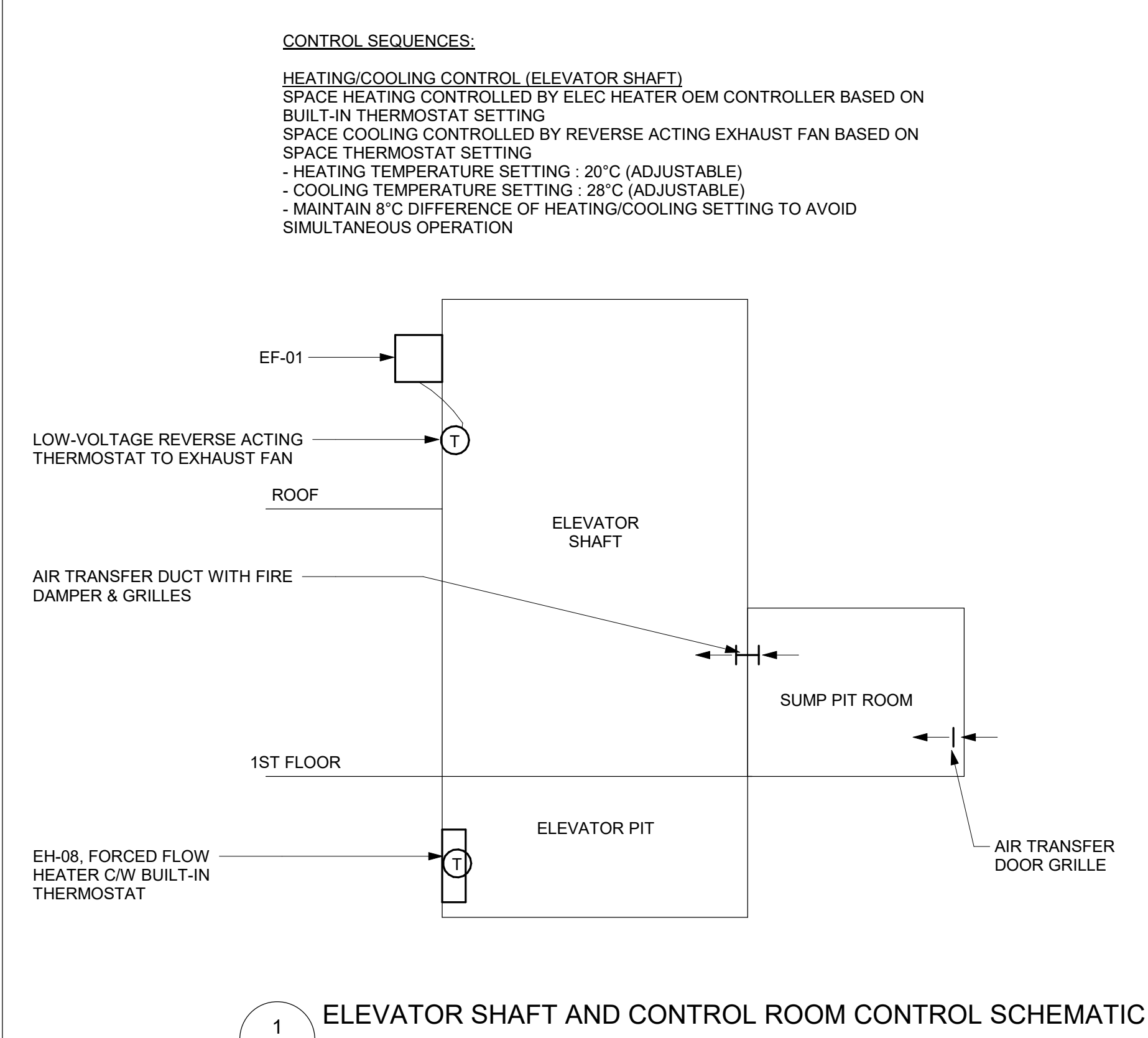
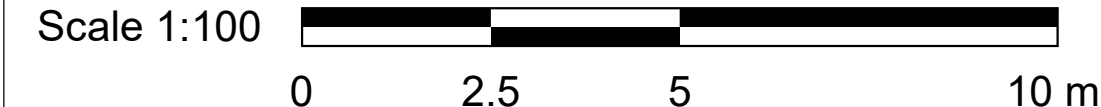
#### SHEET NUMBER

**G21-086-M5103**

#### ISSUE

**H**





EXISTING 4 TONS RTU SERVING GROUND FLOOR OFFICE AREA. CONTRACTOR SHALL VERIFY ON SITE FOR GAS HEATING OUTPUT TO BE MIN ABOVE 60 MBH, FRESH AIR INTAKE SHALL BE MIN ABOVE 275 CFM. CONTRACTOR SHALL NOTIFY OWNER AND PRIME CONSULTANT FOR EXACT CAPACITY AND RE-BALANCE AIRFLOW RATE WHEN REQUIRED

EXISTING 3 TONS RTU SERVING BASEMENT AREA. CONTRACTOR SHALL VERIFY ON SITE FOR GAS HEATING OUTPUT TO BE MIN ABOVE 37 MBH, FRESH AIR INTAKE SHALL BE MIN ABOVE 222 CFM. CONTRACTOR SHALL NOTIFY OWNER AND PRIME CONSULTANT FOR EXACT CAPACITY AND RE-BALANCE AIRFLOW RATE WHEN REQUIRED

PROVIDE REVERSE ACTING THERMOSTAT TO CONTROL EF-02

2500 FRESH AIR INTAKE UP THROUGH ROOF C/W 1200MM GOOSENECK AND WIREMESH SCREEN. CONTRACTOR SHALL COORDINATE ON SITE FOR EXACT LOCATION TO BE MINIMUM 3 METERS AWAY FROM EXHAUST

PROVIDE EXHAUST FAN SIDE WALL MOUNTED

2500 EXHAUST UP THROUGH ROOF C/W 1200MM GOOSENECK AND WIREMESH SCREEN. CONTRACTOR SHALL COORDINATE ON SITE FOR EXACT LOCATION TO BE MINIMUM 3 METERS AWAY FROM FRESH AIR INTAKES

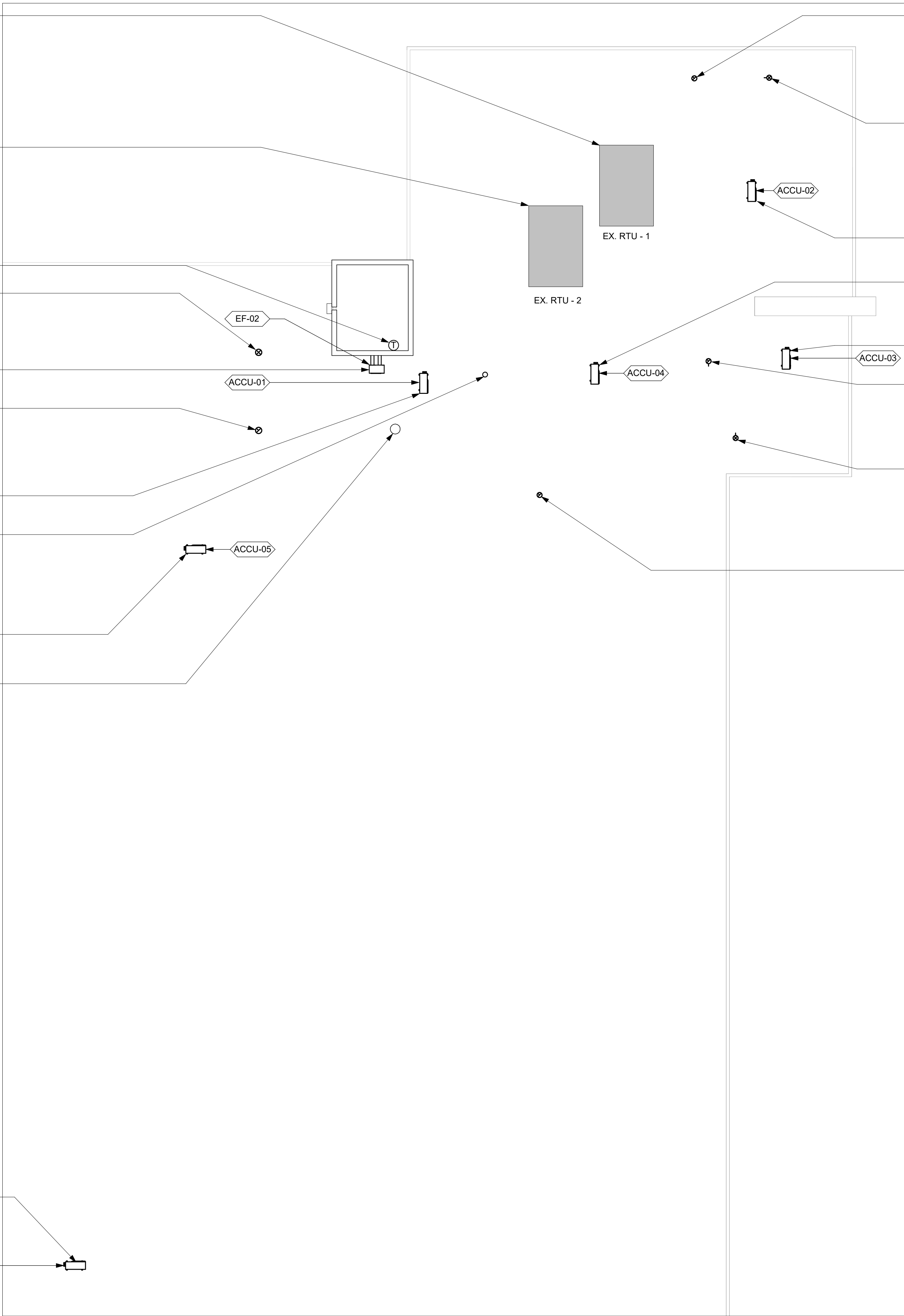
PROVIDE SPLIT AC OUTDOOR UNIT WITH SUPPORTS ECOFOOT MINIFRAME 120 OR EQUAL

PROVIDE 1000 SANITARY VENT EXTEND 300MM THOUGH ROOF C/W WIREMESH. CONTRACTOR SHALL COORDINATE ON SITE FOR EXACT LOCATION TO BE MINIMUM 3 METERS AWAY FROM FRESH AIR INTAKES

PROVIDE SPLIT AC OUTDOOR UNIT WITH SUPPORTS ECOFOOT MINIFRAME 175 OR EQUAL

DRYER VENT UP THROUGH ROOF C/W 1200MM GOOSENECK AND WIREMESH SCREEN. CONTRACTOR SHALL COORDINATE ON SITE FOR EXACT LOCATION TO BE MINIMUM 3 METERS AWAY FROM FRESH AIR INTAKES

PROVIDE SPLIT AC OUTDOOR UNIT WITH SUPPORTS ECOFOOT MINIFRAME 175 OR EQUAL



2000 EXHAUST UP THROUGH ROOF C/W 1200MM GOOSENECK AND WIREMESH SCREEN. CONTRACTOR SHALL COORDINATE ON SITE FOR EXACT LOCATION TO BE MINIMUM 3 METERS AWAY FROM FRESH AIR INTAKES

2000 FRESH AIR INTAKE UP THROUGH ROOF C/W 1200MM GOOSENECK AND WIREMESH SCREEN. CONTRACTOR SHALL COORDINATE ON SITE FOR EXACT LOCATION TO BE MINIMUM 3 METERS AWAY FROM ANY EXHAUST

PROVIDE SPLIT AC OUTDOOR UNIT WITH SUPPORTS ECOFOOT MINIFRAME 120 OR EQUAL

PROVIDE SPLIT AC OUTDOOR UNIT WITH SUPPORTS ECOFOOT MINIFRAME 175 OR EQUAL

PROVIDE SPLIT AC OUTDOOR UNIT WITH SUPPORTS ECOFOOT MINIFRAME 120 OR EQUAL

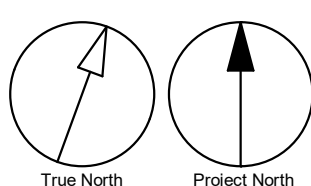
2000 EXHAUST UP THROUGH ROOF C/W 1200MM GOOSENECK AND WIREMESH SCREEN. CONTRACTOR SHALL COORDINATE ON SITE FOR EXACT LOCATION TO BE MINIMUM 3 METERS AWAY FROM FRESH AIR INTAKES INCLUDING NATURAL VENTILATION

2000 FRESH AIR INTAKE UP THROUGH ROOF C/W 1200MM GOOSENECK AND WIREMESH SCREEN. CONTRACTOR SHALL COORDINATE ON SITE FOR EXACT LOCATION TO BE MINIMUM 3 METERS AWAY FROM ANY POTENTIAL OUTDOOR CONTAMINANT SOURCE (IE. EXHAUST DUCTS)

1500 EXHAUST UP THROUGH ROOF C/W 1200MM GOOSENECK AND WIREMESH SCREEN. CONTRACTOR SHALL COORDINATE ON SITE FOR EXACT LOCATION TO BE MINIMUM 3 METERS AWAY FROM FRESH AIR INTAKES

**2 HVAC - ROOF**  
M5104 Scale: 1 : 100

- GENERAL NOTES:
1. ADD AND ADJUST DUCTS TO FIT NEW DIFFUSERS/GRILLES.
  2. THERMOSTAT & CONTROL TO BE MOUNTED AT 1200mm A.F.F.
  3. PROVIDE INSULATION FOR ERV FRESH AIR INTAKE DUCT AND 3 METERS OF ERV EXHAUST DUCT AT EXTERIOR WALL.
  4. REFER ARCH & ELEC DWG FOR EXACT CEILING LAYOUT, COORDINATE ON SITE FOR DIFFUSER/GRILLE INSTALLATION LOCATION.
  5. PROVIDE 25MM INTERNAL ACOUSTIC LINING FOR FIRST 3 METERS OF DUCTWORK FROM RTU. CONTRACTOR TO VERIFY EXISTING DUCTWORK AND MODIFY EXISTING DUCTWORK TO INSTALL NEW ACCOUSTIC LINING WHEN REQUIRED. CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.
  - 6.



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D	ISSUED FOR PERMIT REV 1/ TENDER	2023-02-17
E	100% SUBMISSION	2023-02-23
F	ISSUED FOR REVISED 100% SUBMISSION	2024-04-19
G	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
H	ISSUED FOR TENDER	2025-09-05

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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
K.DURUKAN

CHECKED BY:  
N.KHOURY

PROJECT MGR:  
F. BOLOURIAN

APPROVED BY:  
S.LIU

SHEET TITLE

HVAC - ROOF

SHEET NUMBER

G21-086-M5104

ISSUE

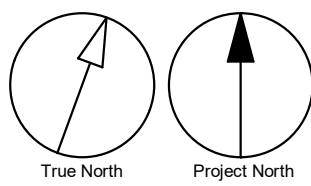
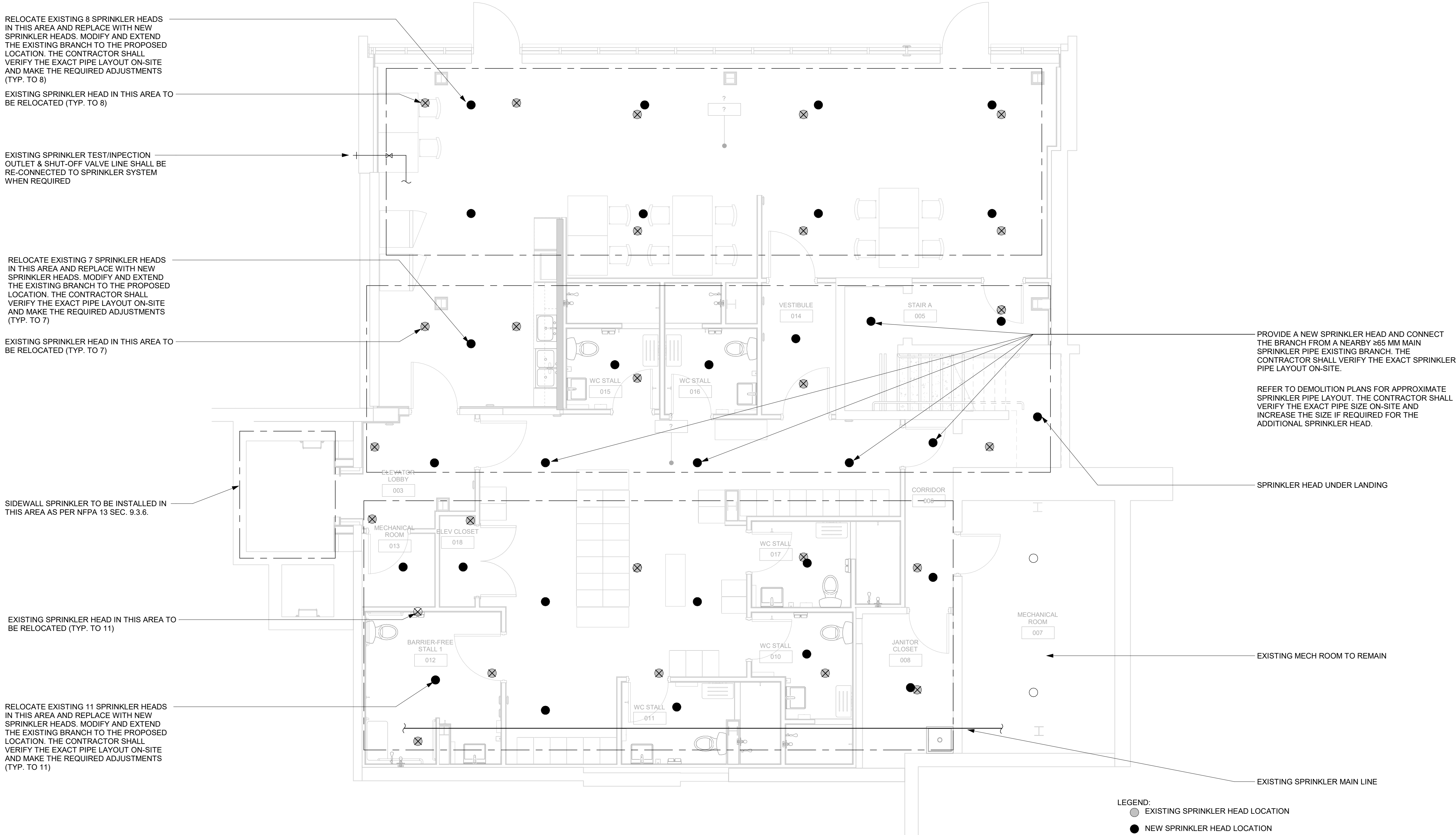
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Scale 1:50



1  
M6101 FIRE PROTECTION - BASEMENT  
Scale: 1 : 50



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E	100% SUBMISSION	2023-02-23
F	ISSUED FOR REVISED 100% SUBMISSION	2024-04-19
G	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
H	ISSUED FOR REVISED PERMIT REV 3	2025-02-28
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160 RIVALDA RD**

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**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S.LIU**

SHEET TITLE  
**FIRE PROTECTION -  
BASEMENT**

SHEET NUMBER  
**G21-086-M6101**

ISSUE  
**I**

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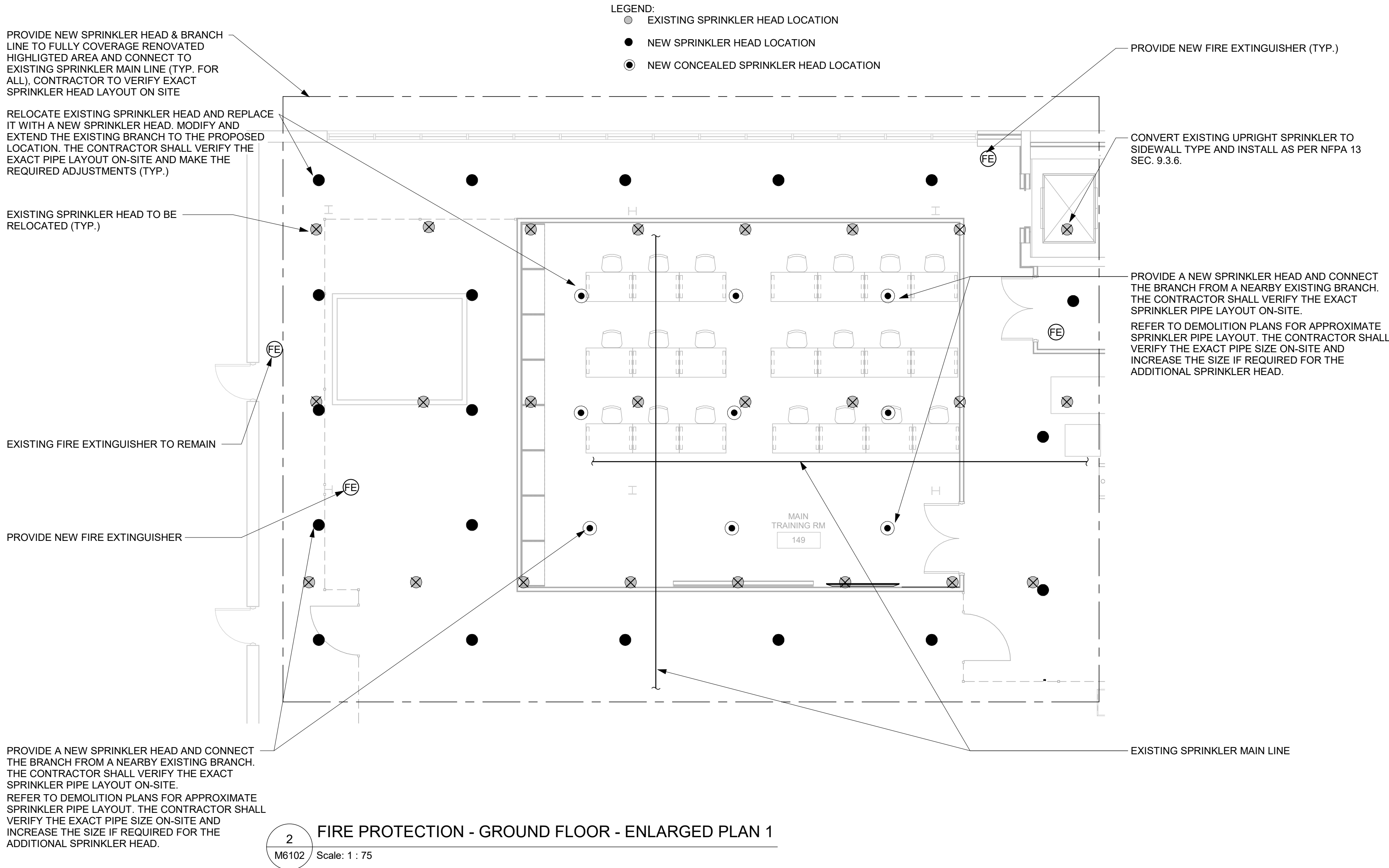
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SCALE CHECK  
1 m

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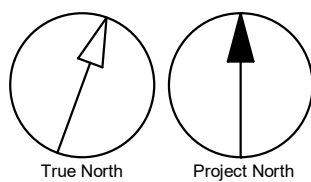
1 FIRE PROTECTION - GROUND FLOOR OVERALL PLAN  
M6102 Scale: 1 : 200



NOTES:

1. CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.

2. REFER TO GENERAL FIRE PROTECTION NOTES FROM GENERAL DRAWING PACKAGE.



ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR PERMIT REV 1/ TENDER	2023-02-17
B	100% SUBMISSION	2023-02-23
C	ISSUED FOR REVISED 100% SUBMISSION	2024-04-19
D	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
E	ISSUED FOR REVISED PERMIT REV 3	2025-02-28
F	ISSUED FOR TENDER	2025-09-05

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160 RIVALDA RD**

PROJECT NO:  
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**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S.LIU**

SHEET TITLE  
**FIRE PROTECTION -  
GROUND FLOOR  
OVERALL PLAN - 1**

SHEET NUMBER  
**G21-086-M6102**

ISSUE  
**F**



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EXISTING 3 SPRINKLER HEADS TO BE DISCONNECTED FROM SYSTEM

EXISTING SPRINKLER TEST/INFECTION OUTLET & SHUT-OFF VALVE LINE SHALL BE RE-CONNECTED TO SPRINKLER SYSTEM WHEN REQUIRED

EXISTING SPRINKLER HEAD IN THIS AREA TO BE RELOCATED (TYP. TO 10)

EXISTING SPRINKLER HEAD IN THIS AREA TO BE RELOCATED (TYP. TO 5)

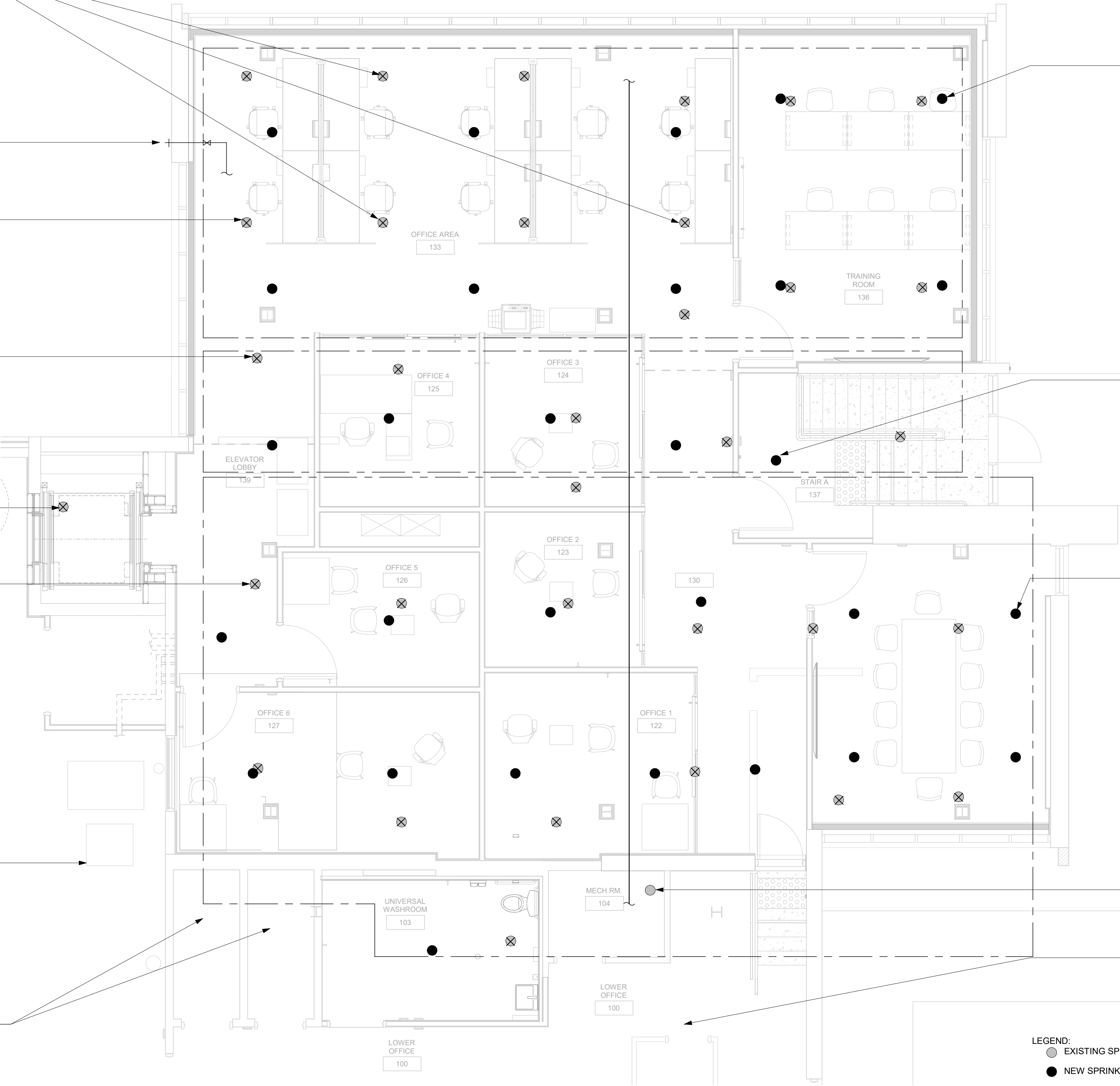
CONVERT EXISTING UPRIGHT SPRINKLER TO SIDEWALL TYPE AND INSTALL AS PER NFPA 13 SEC. 9.3.6

EXISTING SPRINKLER HEAD IN THIS AREA TO BE RELOCATED (TYP. TO 14)

EXISTING SPRINKLER SYSTEM OUT OF THE SCOPE AREA TO REMAIN

EXISTING SPRINKLER SYSTEM OUT OF THE SCOPE AREA TO REMAIN

**1 FIRE PROTECTION - MEZZANINE FLOOR**  
M6103 Scale: 1: 50



RELOCATE EXISTING 10 SPRINKLER HEADS IN THIS AREA AND REPLACE WITH NEW SPRINKLER HEADS. MODIFY AND EXTEND THE EXISTING BRANCH TO THE PROPOSED LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT PIPE LAYOUT ON-SITE AND MAKE THE REQUIRED ADJUSTMENTS (TYP. TO 10)

REFER TO DEMOLITION PLANS FOR APPROXIMATE SPRINKLER PIPE LAYOUT. THE CONTRACTOR SHALL VERIFY THE EXACT PIPE SIZE ON-SITE AND INCREASE THE SIZE IF REQUIRED FOR THE ADDITIONAL SPRINKLER HEAD.

RELOCATE EXISTING 5 SPRINKLER HEADS IN THIS AREA AND REPLACE WITH NEW SPRINKLER HEADS. MODIFY AND EXTEND THE EXISTING BRANCH TO THE PROPOSED LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT PIPE LAYOUT ON-SITE AND MAKE THE REQUIRED ADJUSTMENTS (TYP. TO 5)

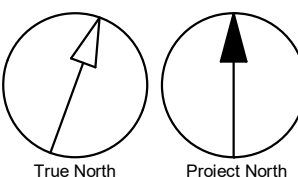
RELOCATE EXISTING 10 SPRINKLER HEADS IN THIS AREA AND REPLACE WITH NEW SPRINKLER HEADS. MODIFY AND EXTEND THE EXISTING BRANCH TO THE PROPOSED LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT PIPE LAYOUT ON-SITE AND MAKE THE REQUIRED ADJUSTMENTS (TYP. TO 14)

EXISTING SPRINKLER TO REMAIN

EXISTING SPRINKLER SYSTEM OUT OF THE SCOPE AREA TO REMAIN

- LEGEND:
- EXISTING SPRINKLER HEAD LOCATION
  - NEW SPRINKLER HEAD LOCATION

- NOTES:
- CONTRACTOR TO VERIFY THE LAYOUT DESIGN RELATED TO ACTUAL SITE CONDITION. IF THERE ARE ANY DISCREPANCIES OF THE DRAWINGS WITH ACTUAL SITE CONDITION, ENGINEER SHALL BE NOTIFIED FOR REDIRECTION
  - REFER TO GENERAL FIRE PROTECTION NOTES FROM GENERAL DRAWING PACKAGE.



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G	ISSUED FOR REVISED PERMIT REV 2	2024-06-14
H	ISSUED FOR REVISED PERMIT REV 3	2025-02-28
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PROJECT TITLE  
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ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:  
**K.DURUKAN**

CHECKED BY:  
**N.KHOURY**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**S.LIU**

SHEET TITLE  
**FIRE PROTECTION -  
MEZZANINE FLOOR**

SHEET NUMBER  
**G21-086-M6103**

ISSUE  
**I**

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ELECTRICAL DRAWING LIST	
Sheet Number	Sheet Name
E0000	DRAWING LIST
E1000	ELECTRICAL SITE PLAN
E1100	ELECTRICAL DEMOLITION PLAN BASEMENT
E1101	ELECTRICAL DEMOLITION PLAN BASEMENT - ENLARGED PLAN
E1102	ELECTRICAL DEMOLITION PLAN UPPER LEVEL
E1103	ELECTRICAL DEMOLITION PLAN UPPER LEVEL - ENLARGED PLAN
E2100	BASEMENT KEY PLAN
E2101	POWER & SYSTEMS PLAN BASEMENT
E2102	UPPER LEVEL KEY PLAN
E2103	POWER & SYSTEM PLAN UPPER LEVEL
E2104	POWER & SYSTEMS PLAN ROOF
E3101	LIGHTING PLAN - BASEMENT
E3102	LIGHTING PLAN - UPPER LEVEL
E4001	FIRE ALARM RISER DIAGRAM
E4101	FIRE ALARM PLAN - BASEMENT
E4102	FIRE ALARM PLAN - UPPER LEVEL
E5001	AUXILIARY SYSTEMS SCHEMATIC
E5004	PANEL SCHEDULES

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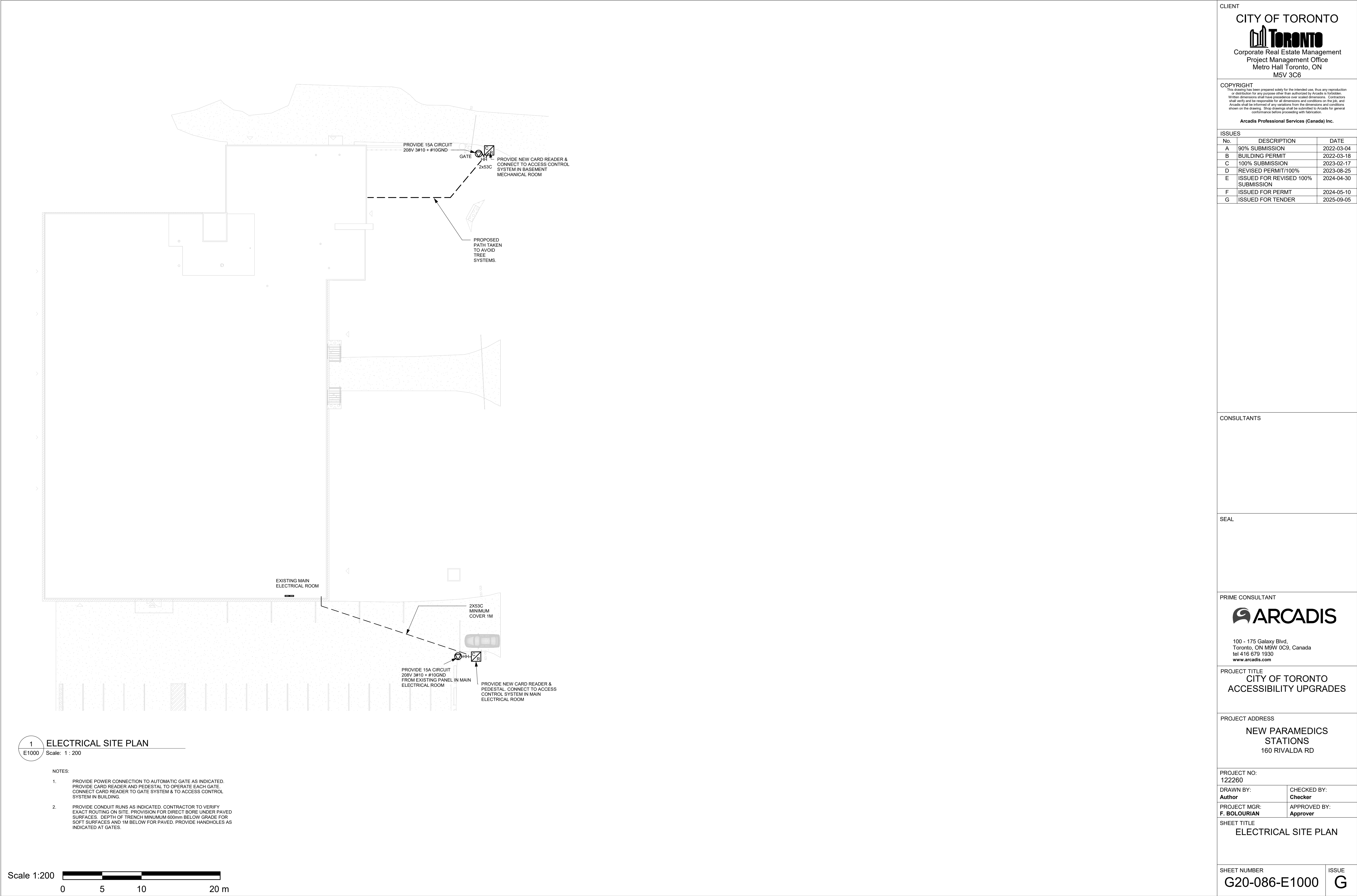
PROJECT NO:  
122260

DRAWN BY: V. MAC	CHECKED BY: M. BOJIC
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: P. WILLIAMS
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SHEET TITLE  
DRAWING LIST

SHEET NUMBER G20-086-E0000	ISSUE H
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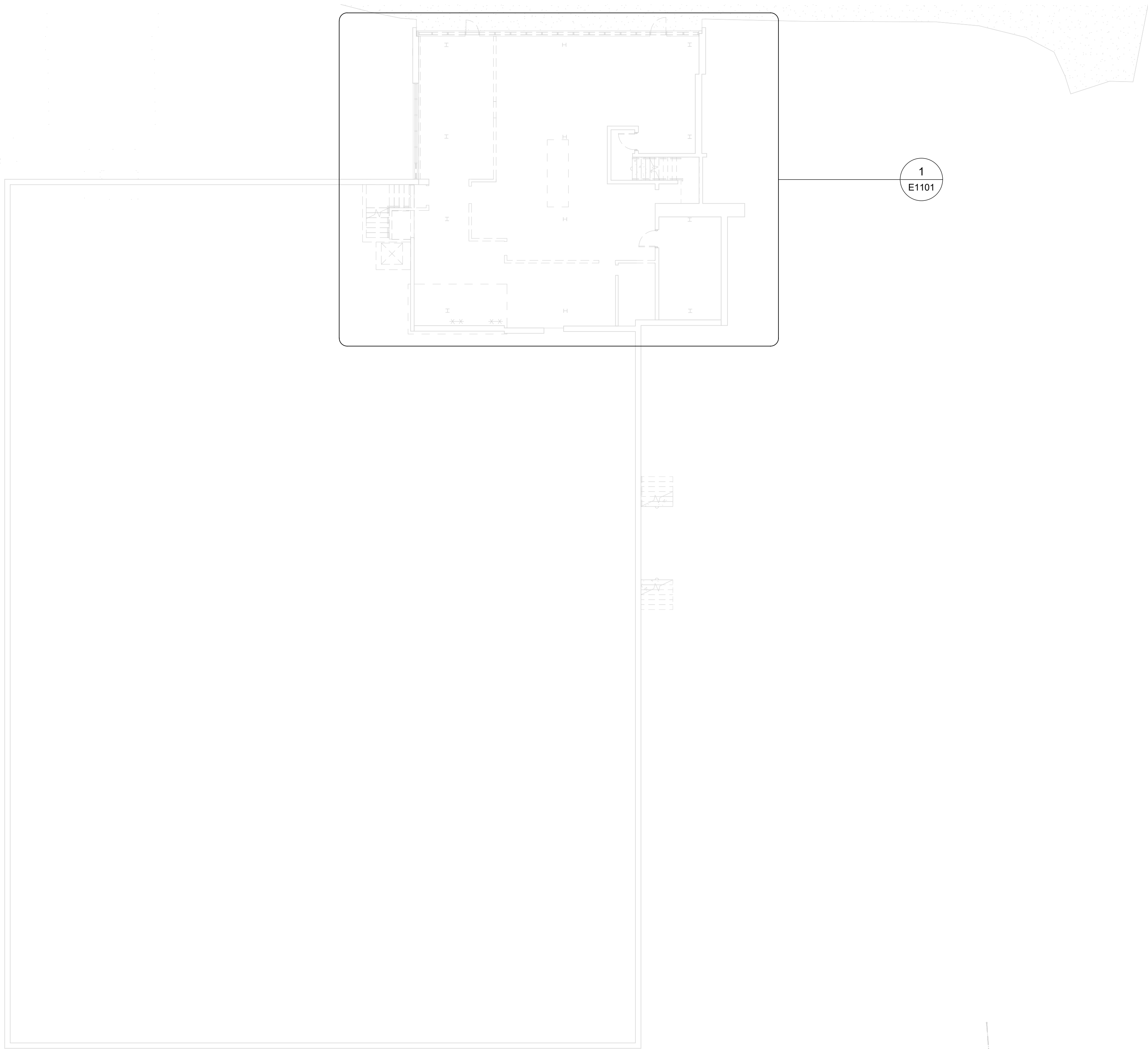
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**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

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122260  
DRAWN BY:  
**Author**  
PROJECT MGR:  
**F. BOLOURIAN**  
CHECKED BY:  
**Checker**  
APPROVED BY:  
**Approver**

SHEET TITLE  
**ELECTRICAL SITE PLAN**

SHEET NUMBER  
**G20-086-E1000**  
ISSUE  
**G**





1 POWER AND SYSTEMS DEMOLITION PLAN BASEMENT  
E1100 Scale: 1 : 150



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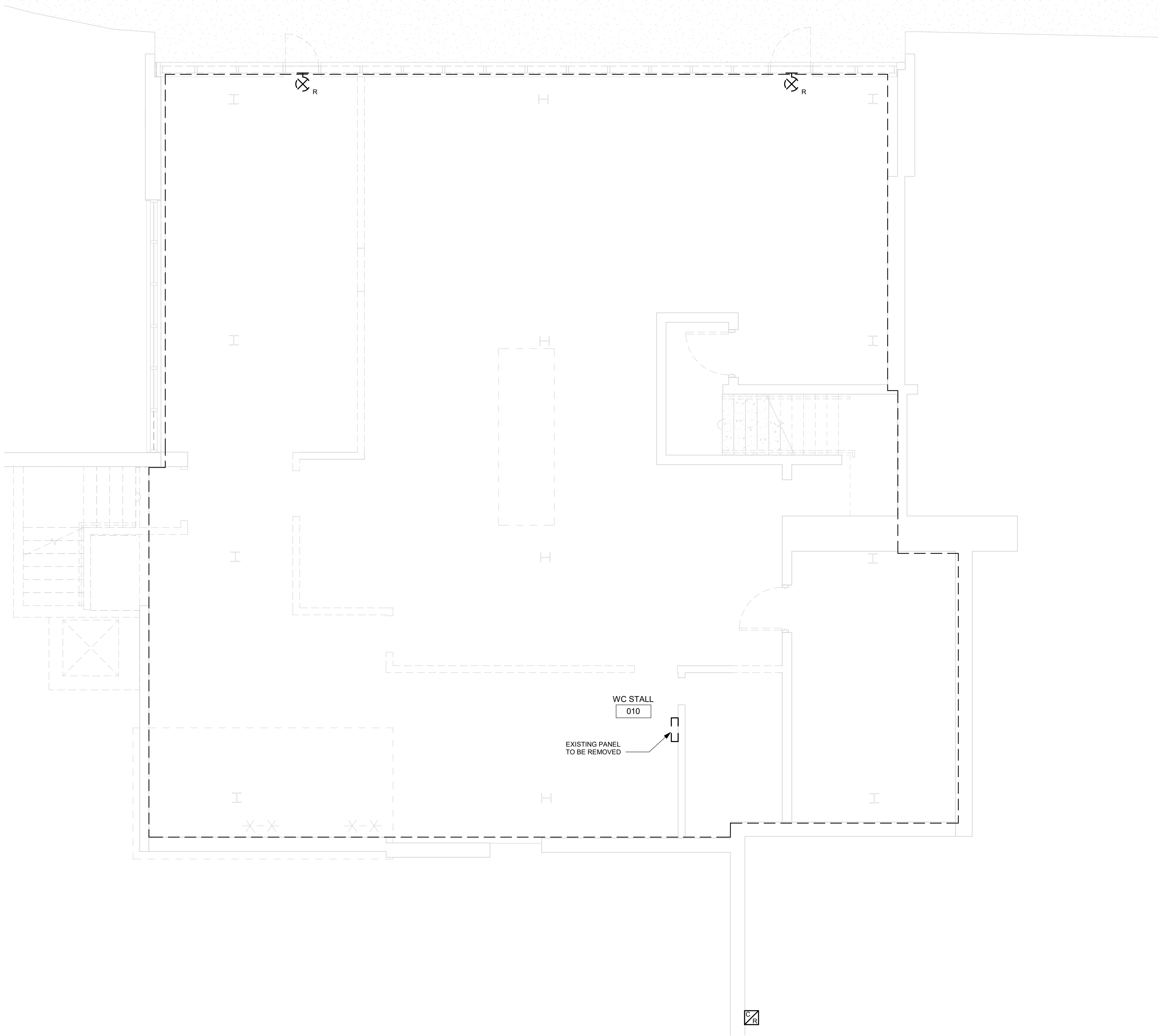
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**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO: 122260	
DRAWN BY: <b>V. MAC</b>	CHECKED BY: <b>M. BOJIC</b>
PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>P. WILLIAMS</b>

SHEET TITLE  
**ELECTRICAL  
DEMOLITION PLAN  
BASEMENT**

SHEET NUMBER <b>G20-086-E1100</b>	ISSUE <b>H</b>
--------------------------------------	-------------------



- NOTES:**
- DISCONNECT & REMOVE ALL EXISTING WIRING, CONDUIT, JUNCTION BOXES IN AREA. NO EXISTING POWER, LIGHTING, COMMUNICATIONS OR SECURITY DEVICES OR CABLING ARE TO REMAIN. PROPOSED PLAN SHOWS ALL NEW FIXTURES, RECEPTACLES, LIGHTS, LIGHTING CONTROLS ON THIS FLOOR
  - DISCONNECT AND REMOVE EXISTING PANEL IN BASEMENT. REMOVE ALL CONDUIT & WIRING ASSOCIATED WITH EXISTING PANEL BACK TO SOURCE.

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G	ISSUED FOR PERMT	2024-05-10
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ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
122260

DRAWN BY:  
**V. MAC**

CHECKED BY:  
**M. BOJIC**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**P. WILLIAMS**

SHEET TITLE

**ELECTRICAL  
DEMOLITION PLAN  
BASEMENT - ENLARGED  
PLAN**

SHEET NUMBER

**G20-086-E1101**

ISSUE

**H**

**1**  
E1101 **POWER AND SYSTEMS DEMOLITION PLAN BASEMENT - ENLARGED PLAN**

Scale: 1 : 50

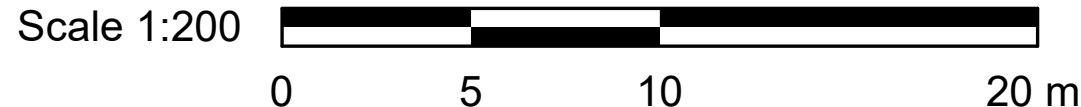
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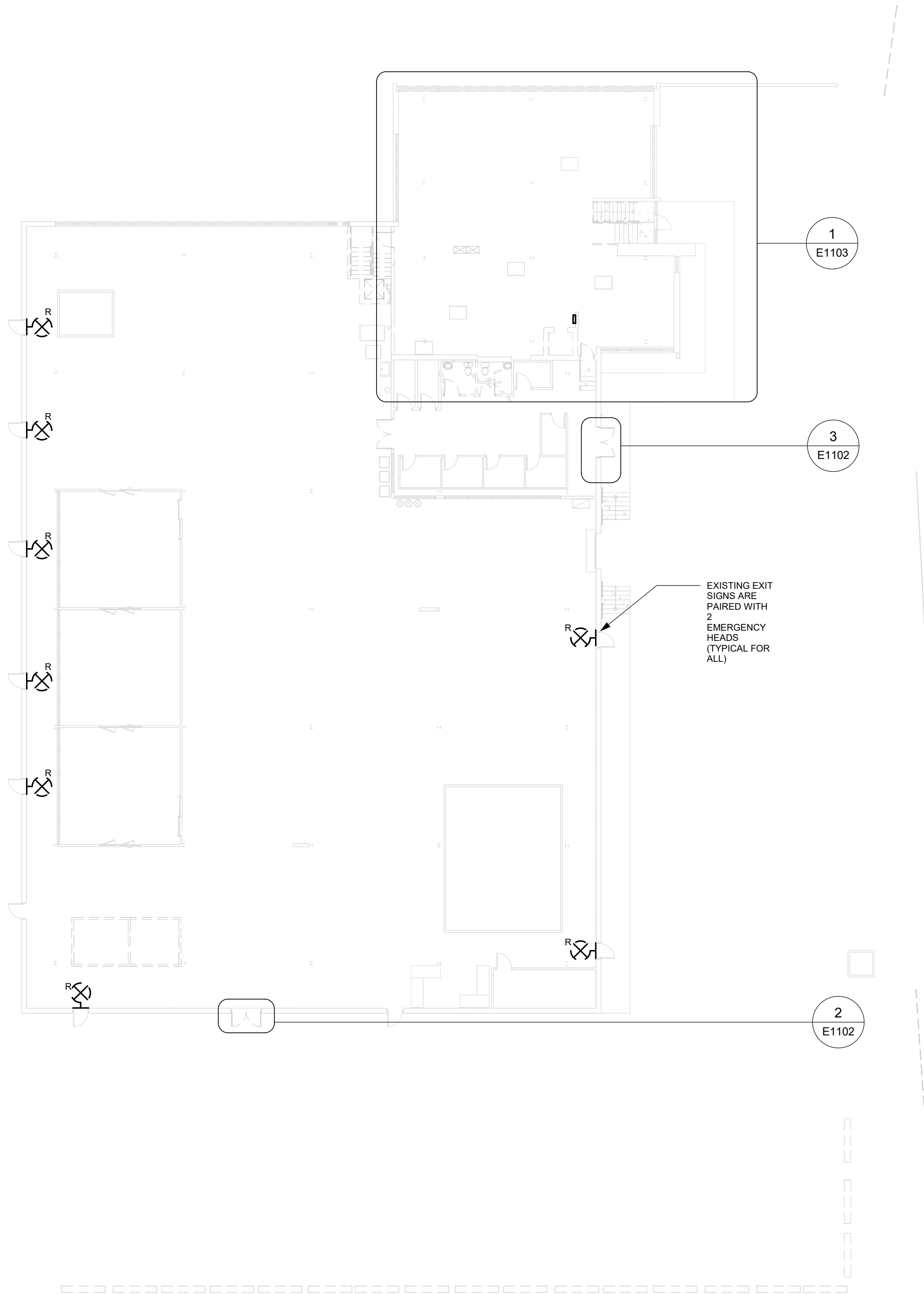
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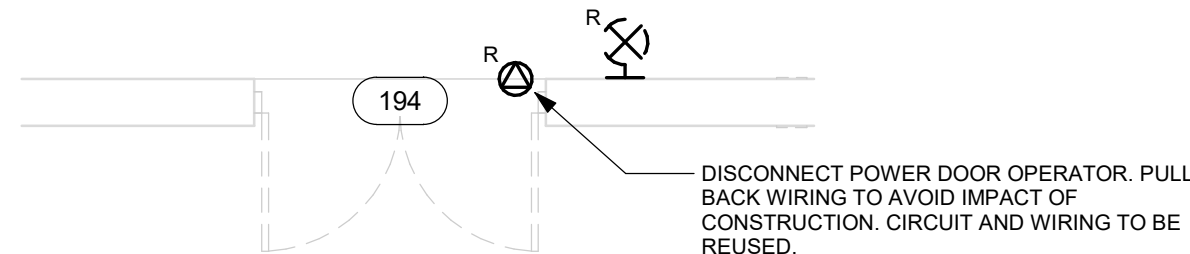
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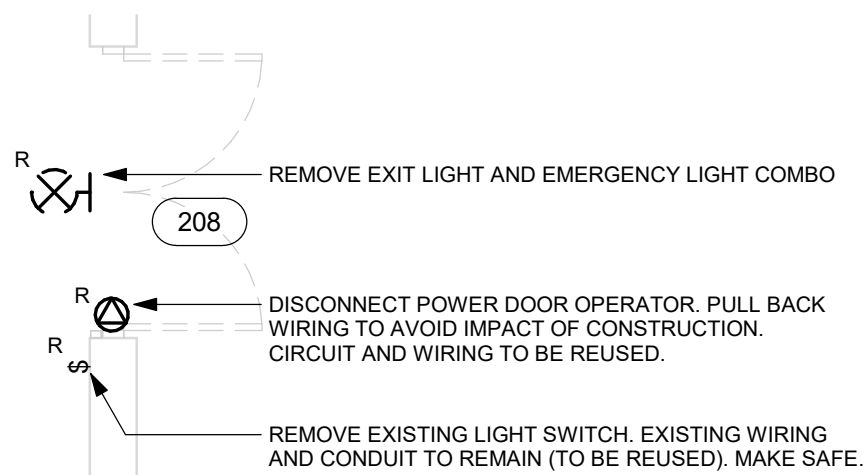
1  
E1102  
POWER AND SYSTEMS DEMOLITION PLAN UPPER LEVEL  
Scale: 1 : 200



2  
E1102  
DOOR N-100A DEMOLITION LAYOUT  
Scale: 1 : 50



3  
E1102  
DOOR N-100B DEMOLITION LAYOUT  
Scale: 1 : 50



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**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD**

PROJECT NO:  
122260

DRAWN BY:  
**V. MAC**

CHECKED BY:  
**M. BOJIC**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**P. WILLIAMS**

SHEET TITLE  
**ELECTRICAL  
DEMOLITION PLAN  
UPPER LEVEL**

SHEET NUMBER

**G20-086-E1102**

ISSUE

**H**

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10mm

SCALE CHECK  
1 m





1. DISCONNECT & REMOVE ALL EXISTING WIRING, CONDUIT, JUNCTION BOXES IN AREA. NO EXISTING POWER, LIGHTING, COMMUNICATIONS OR SECURITY DEVICES OR CABLING ARE TO REMAIN. PROPOSED PLAN SHOWS ALL NEW FIXTURES, RECEPTACLES, LIGHTS, LIGHTING CONTROLS.
2. CERTAIN FIRE ALARM DEVICES ARE TO BE REMOVED AND RELOCATED AS INDICATED.
3. DISCONNECT AND REMOVE EXISTING PANEL IN ON UPPER LEVEL. REMOVE ALL CONDUIT & CABLING ASSOCIATED WITH EXISTING PANEL.

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SHEET NUMBER  
G20-086-E1103

Scale 1:50

0 1 2.5 5 m

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STATIONS  
160 RIVALDA RD

PROJECT NO:  
122260

DRAWN BY  
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CHECKED BY:  
M. BOJIC

PROJECT MGR

PROJECT NO. <b>F. BOLOURIAN</b>	APPROVED BY: <b>P. WILLIAMS</b>
SHEET TITLE <b>BASEMENT KEY PLAN</b>	

SHEET NUMBER

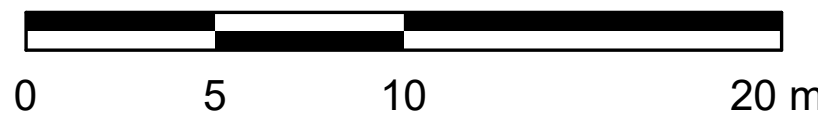
G20-086-E2100

ISSUE

## H

2025-09-23 10:08:48 AM

Scale 1:200



2

E21

POWER &amp; SYSTEMS PLAN BASEMENT

Scale: 1 : 200

1

E2101

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1003

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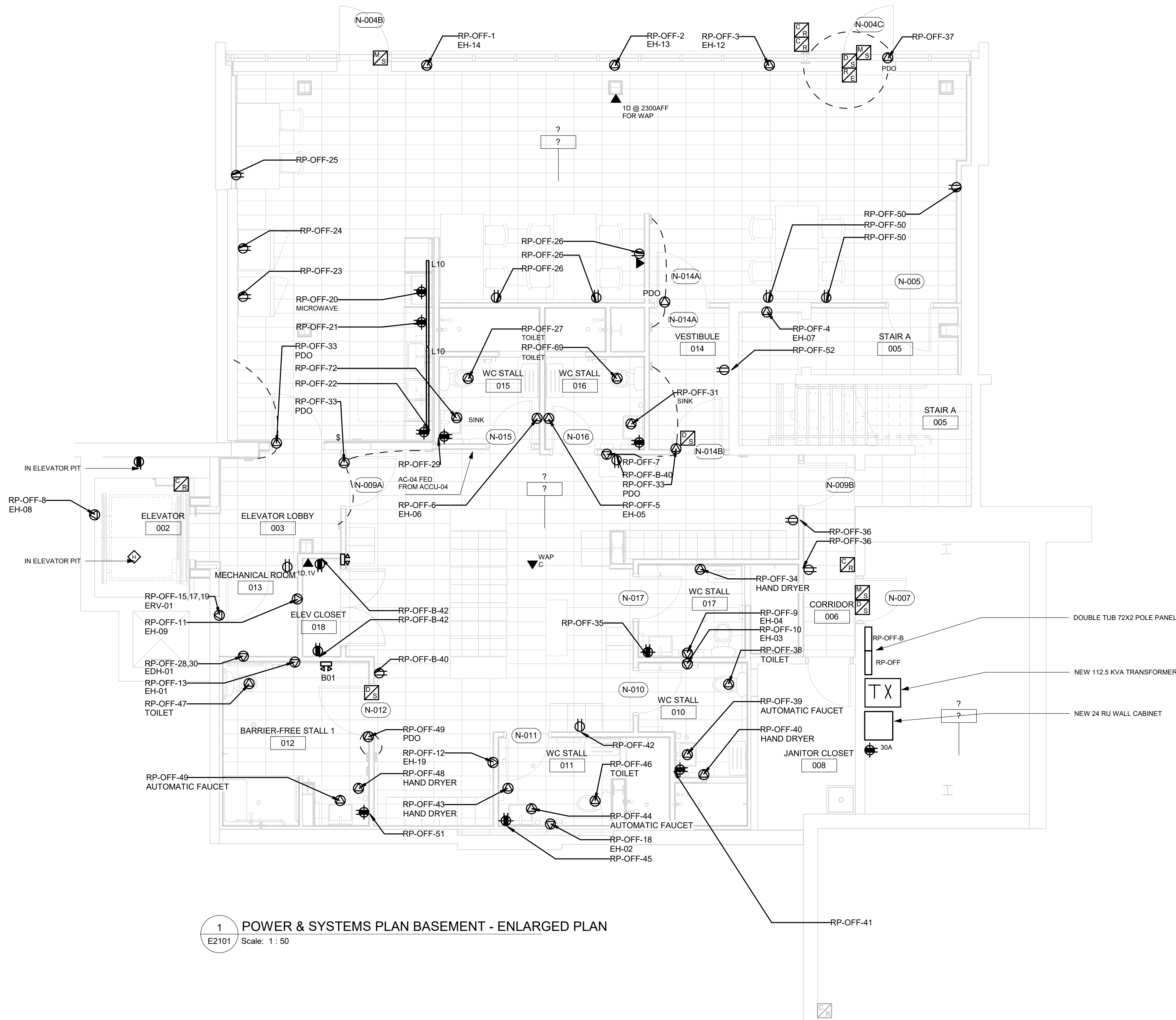
PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

PLAN BASEMENT

H

1. PROVIDE POWER TO RECETPACLES AND EQUIPMENT AS SHOWN ON PLAN
2. PROVIDE COMMUNICATIONS RECEPTACLES AS SHOWN ON PLAN



1 POWER & SYSTEMS PLAN BASEMENT - ENLARGED PLAN  
E2101 Scale: 1 : 50

Scale 1:50

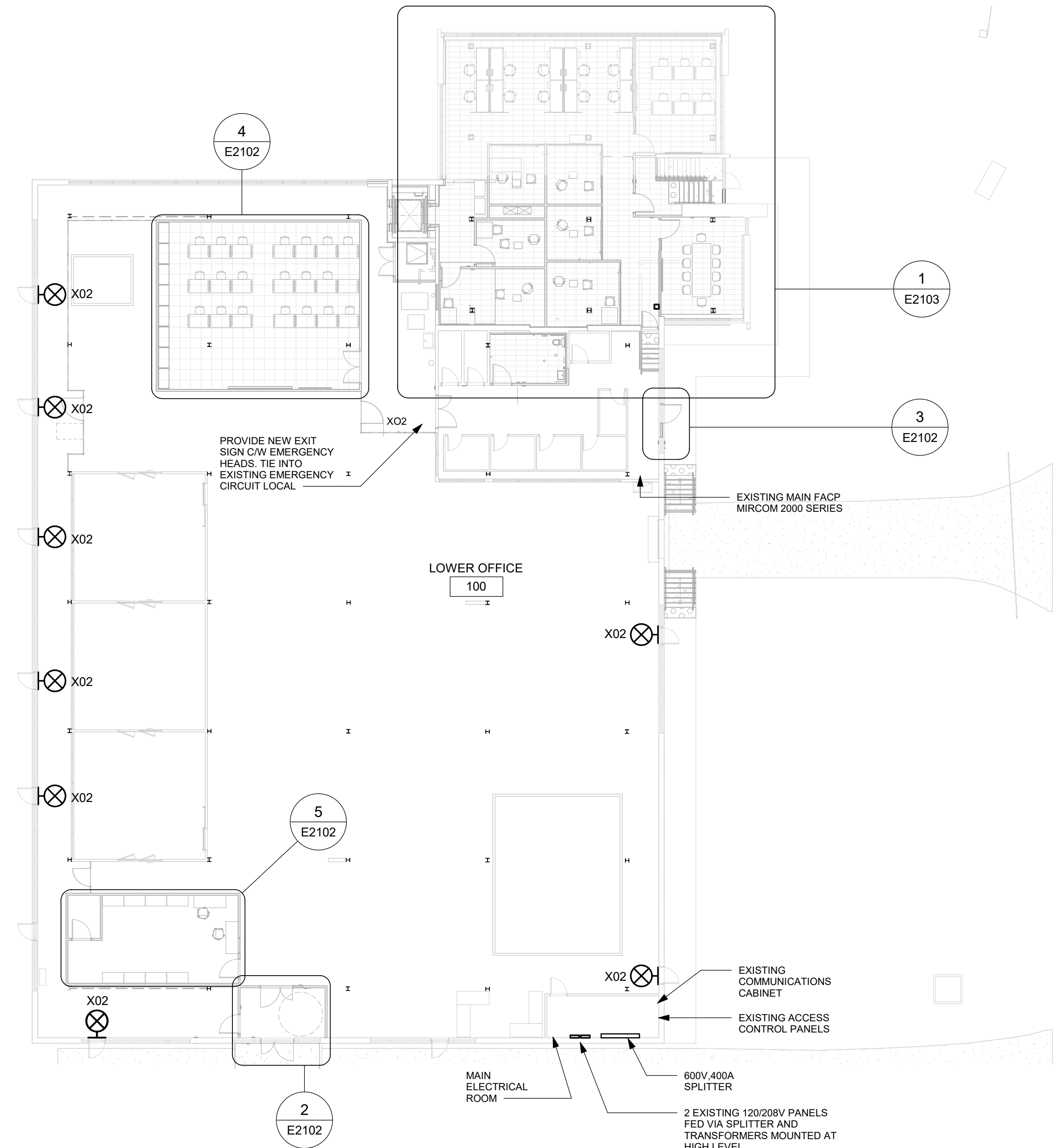


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1000



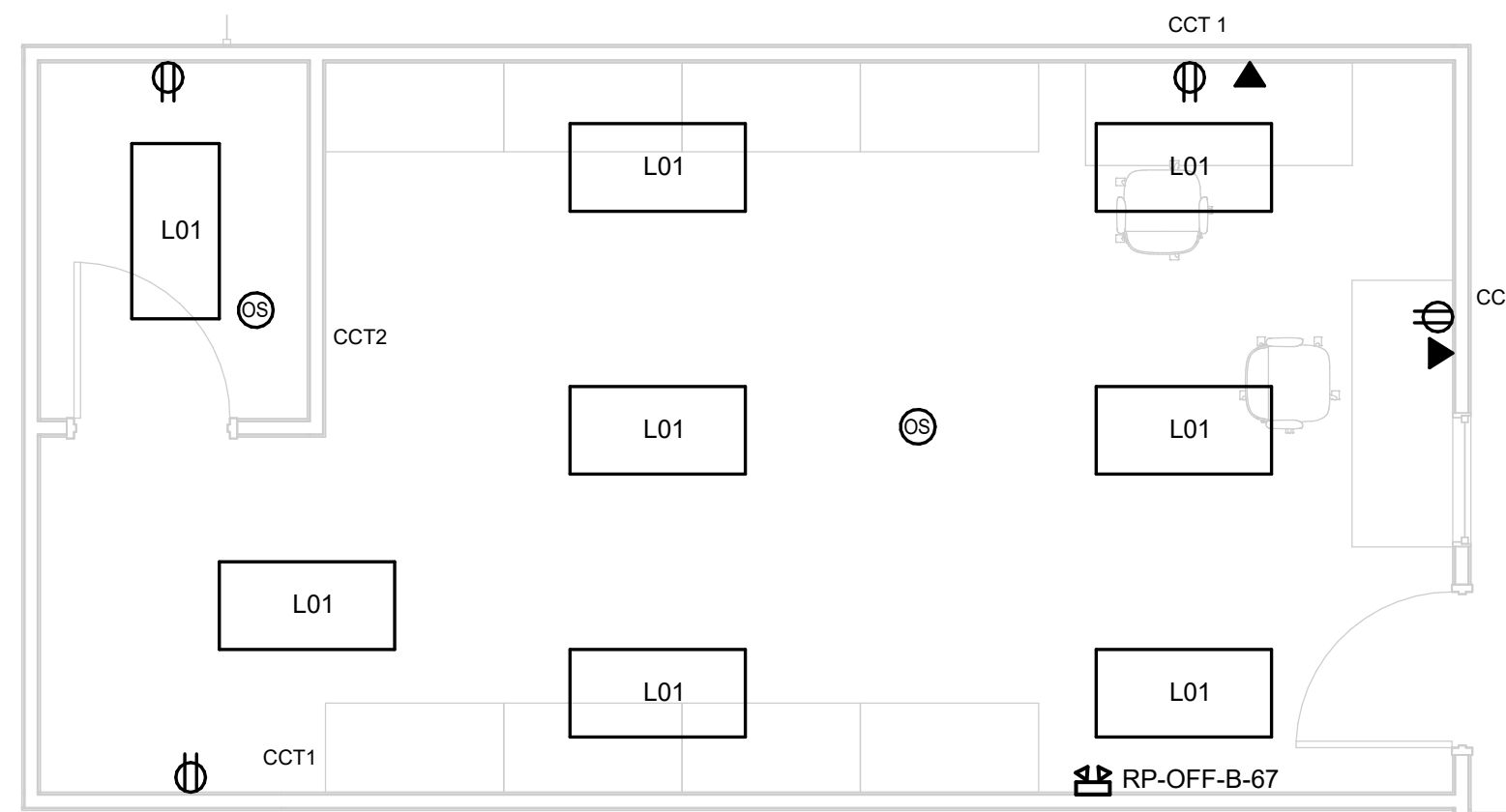


1 POWER & SYSTEMS PLAN UPPER LEVEL

E2102 Scale: 1 : 200

NOTES:

1. PROVIDE NEW 112.5KVA TRANSFORMER TO FEED NEW PANEL RP-OFF. PROVIDE NEW 3 PH 125A FRAME, 100A FUSE DISCONNECT AND CONNECT TO EXISTING 400A SPLITTER. INSTALL TRANSFORMER, FLOOR MOUNT IN OFFICE BASEMENT SERVICE ROOM.

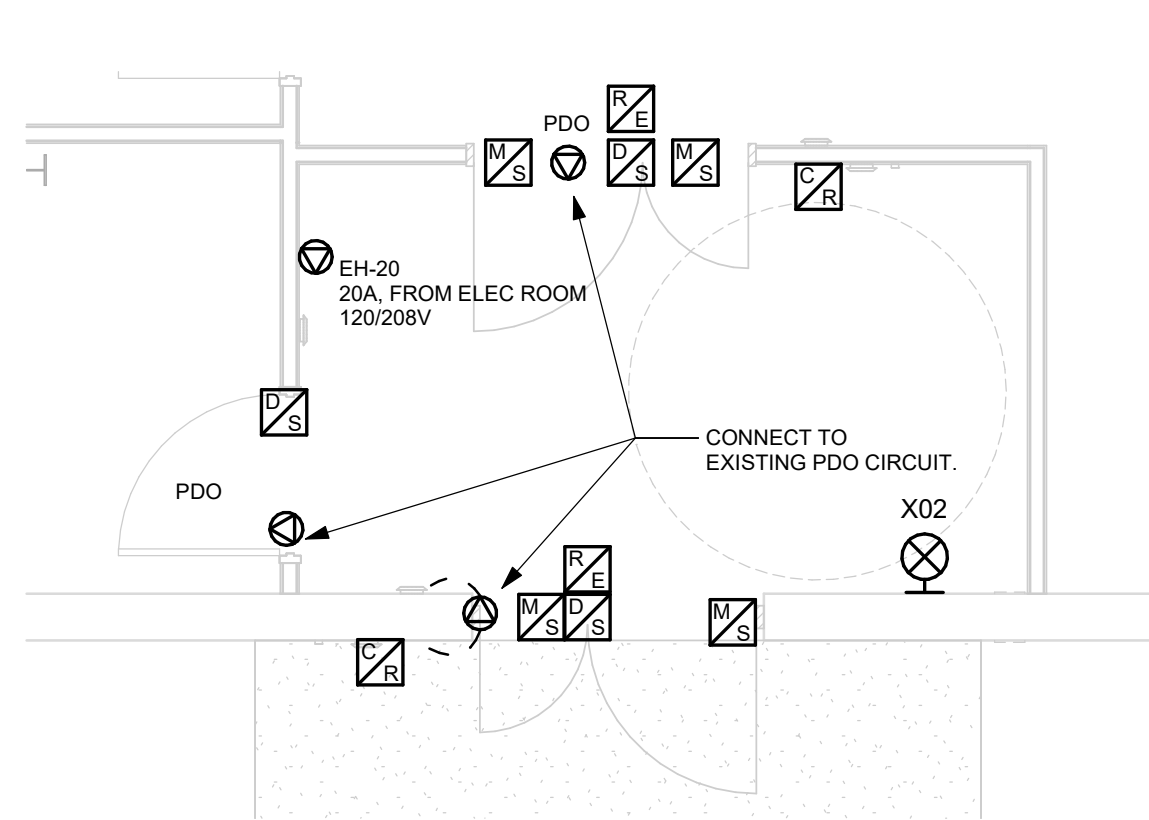


5 POWER & SYSTEMS PLAN FIRST FLOOR - STORAGE

E2102 Scale: 1 : 50

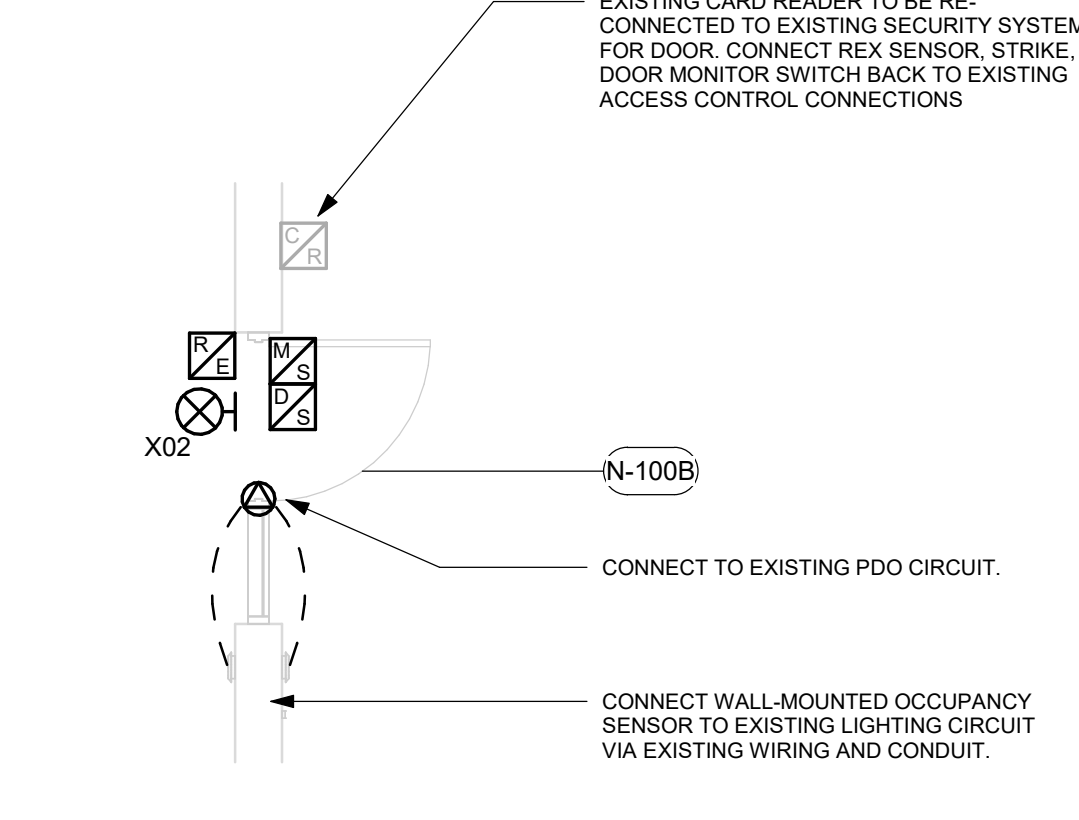
NOTES:

1. PROVIDE NEW RECEPTACLES IN STORAGE ROOM AS INDICATED. ROUTE VIA COLUMNS/CEILING INTO EXISTING ELECTRICAL ROOM PANELS. CIRCUITS SHOWN FOR GROUPING PURPOSES ONLY. FILL PANEL AS SPACE AVAILABLE.
2. PROVIDE NEW LIGHTING IN NEW ACOUSTIC CEILING AS INDICATED. OCCUPANCY SENSOR TO TURN ON LIGHTS BASED ON MOVEMENT. TURN OFF AFTER 15M OF NO INPUT.
3. ROUTE COMMUNICATIONS TO NEW RACK IN BASEMENT SERVICE ROOM.
4. PROVIDE NEW BATTERY PACK AS INDICATED. TIE ALL LIGHTS IN SPACE TO SAME CIRCUIT AS BATTERY. MARK BREAKER AS "EL" TO INDICATE BATTERY UNIT ON THIS CIRCUIT.



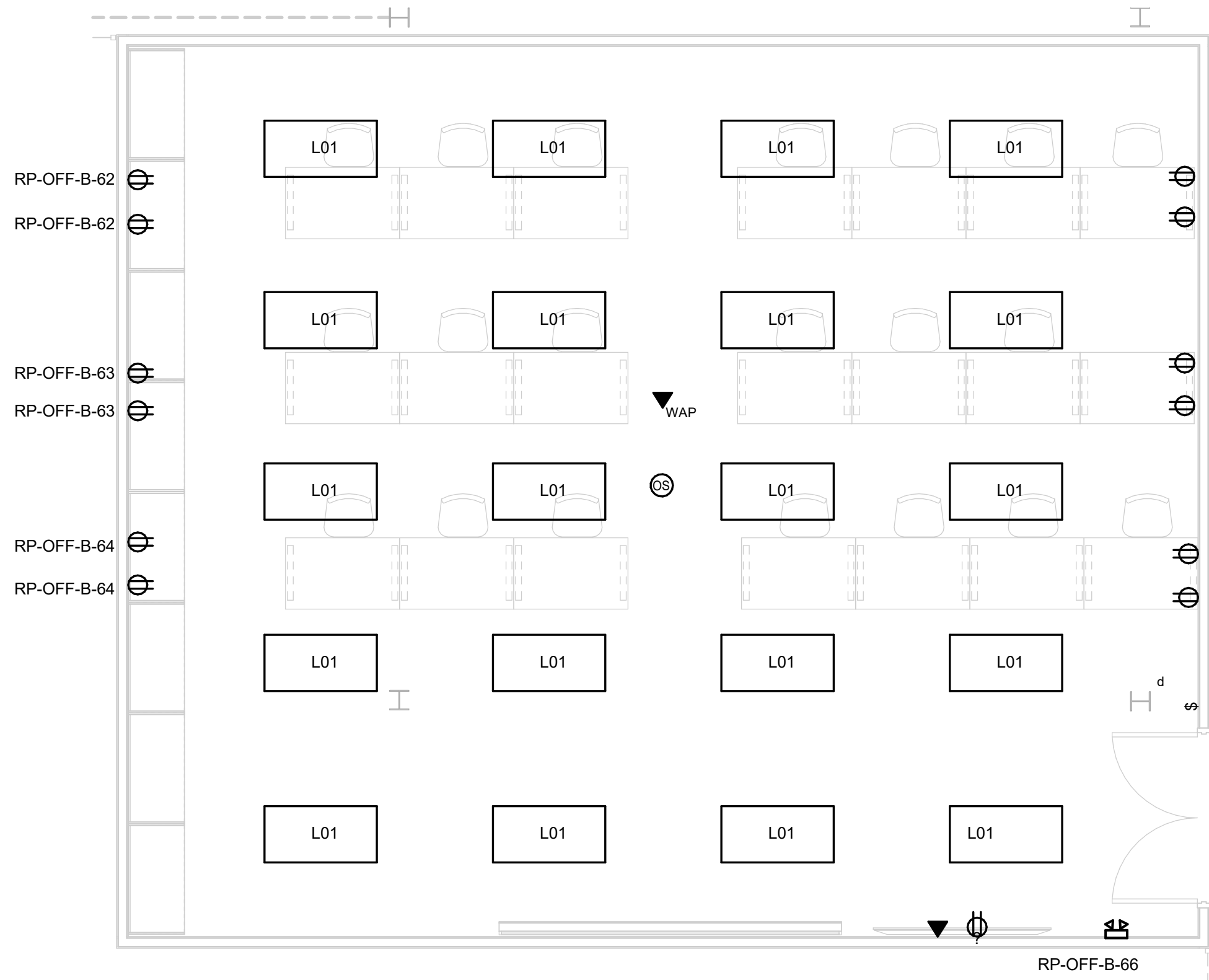
2 DOOR N-100A PROPOSED LAYOUT

E2102 Scale: 1 : 50



3 DOOR N-100B PROPOSED LAYOUT

E2102 Scale: 1 : 50



4 POWER & SYSTEMS PLAN FIRST FLOOR - TRAINING ROOM

E2102 Scale: 1 : 50

NOTES:

1. PROVIDE NEW RECEPTACLES IN TRAINING ROOM AS INDICATED. ROUTE VIA COLUMNS/CEILING INTO NEW BASEMENT PANELS.
2. PROVIDE NEW LIGHTING IN NEW ACOUSTIC CEILING AS INDICATED. CONNECT TO DIMMER SWITCH FOR 0-10V DIMMING OF LIGHTS IN SPACE. OCCUPANCY SENSOR TO ACT IN VACANCY MODE. IF NO MOVEMENT DETECTED FOR 15M THEN TURN OFF LIGHTS
3. ROUTE COMMUNICATIONS TO NEW RACK IN BASEMENT SERVICE ROOM.
4. PROVIDE NEW BATTERY PACK AS INDICATED. TIE ALL LIGHTS IN SPACE TO SAME CIRCUIT AS BATTERY. MARK BREAKER AS "EL" TO INDICATE BATTERY UNIT ON THIS CIRCUIT.

Scale 1:200

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CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

PROJECT NO:

122260

DRAWN BY:

V. MAC

CHECKED BY:

M. BOJIC

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

P. WILLIAMS

SHEET TITLE

UPPER LEVEL KEY PLAN

SHEET NUMBER

G20-086-E2102

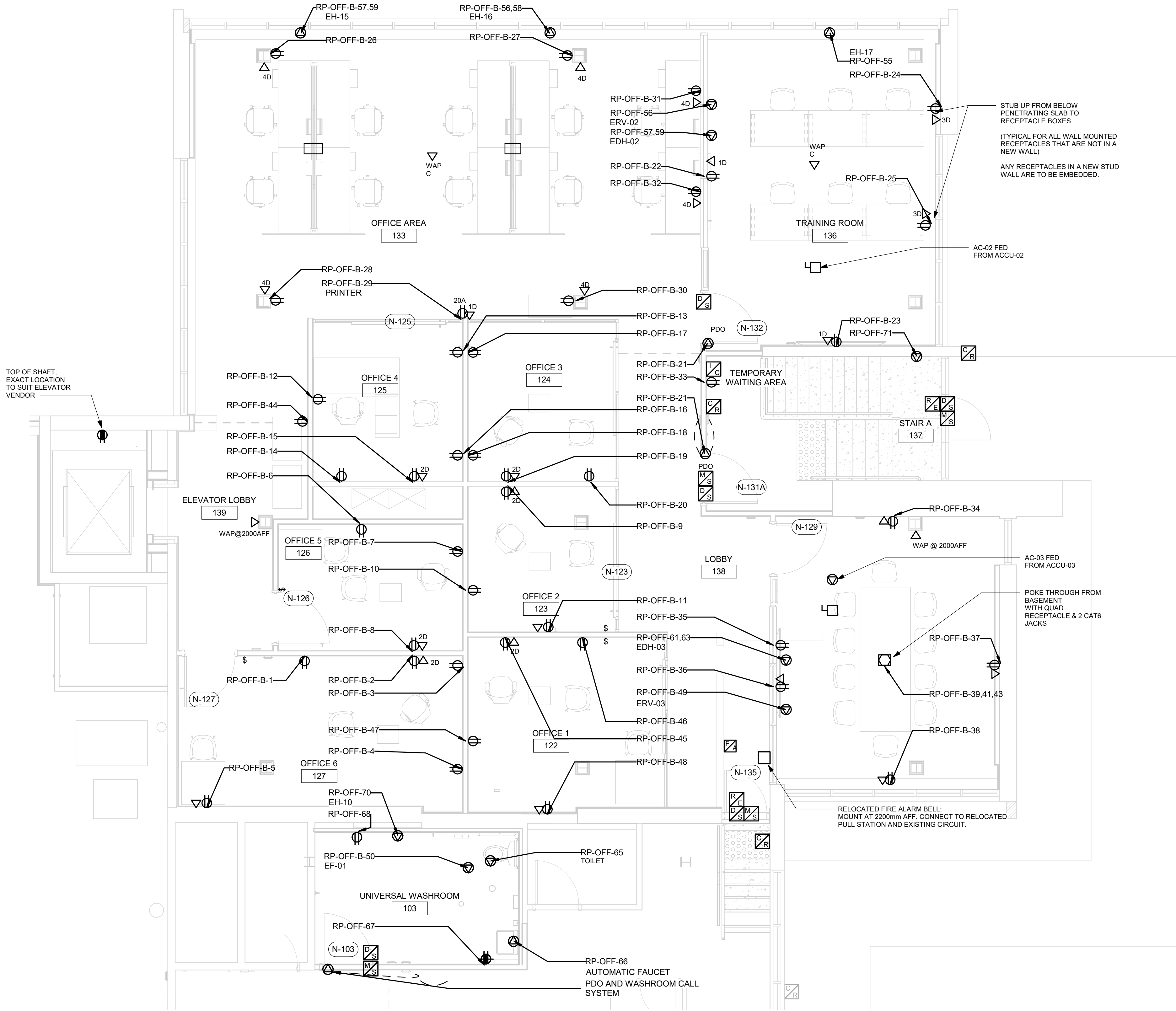
ISSUE

H

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10mm

SCALE CHECK  
1 in



- NOTES:
1. PROVIDE NEW DOOR ACCESS CONTROL HARDWARE AS INDICATED. REFER TO AUXILIARY SYSTEM SCHEMATIC FOR CONNECTION INFO. PROVIDE ANY ROUGH IN/CABLING REQUIRED TO FACILITATE A COMPLETE WORKING SYSTEM.
  2. PROVIDE DATA JACKS AS INDICATED 1 CABLE PER JACK. REFER TO AUXILIARY SYSTEM SCHEMATIC FOR CONNECTION DETAILS

1 POWER AND SYSTEMS PLAN UPPER LEVEL - ENLARGED PLAN  
E2103 Scale: 1 : 50

Scale 1:50  
0 1 2.5 5 m

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PROJECT MGR:  
F. BOLOURIAN

APPROVED BY:  
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SHEET TITLE  
**POWER & SYSTEM PLAN  
UPPER LEVEL**

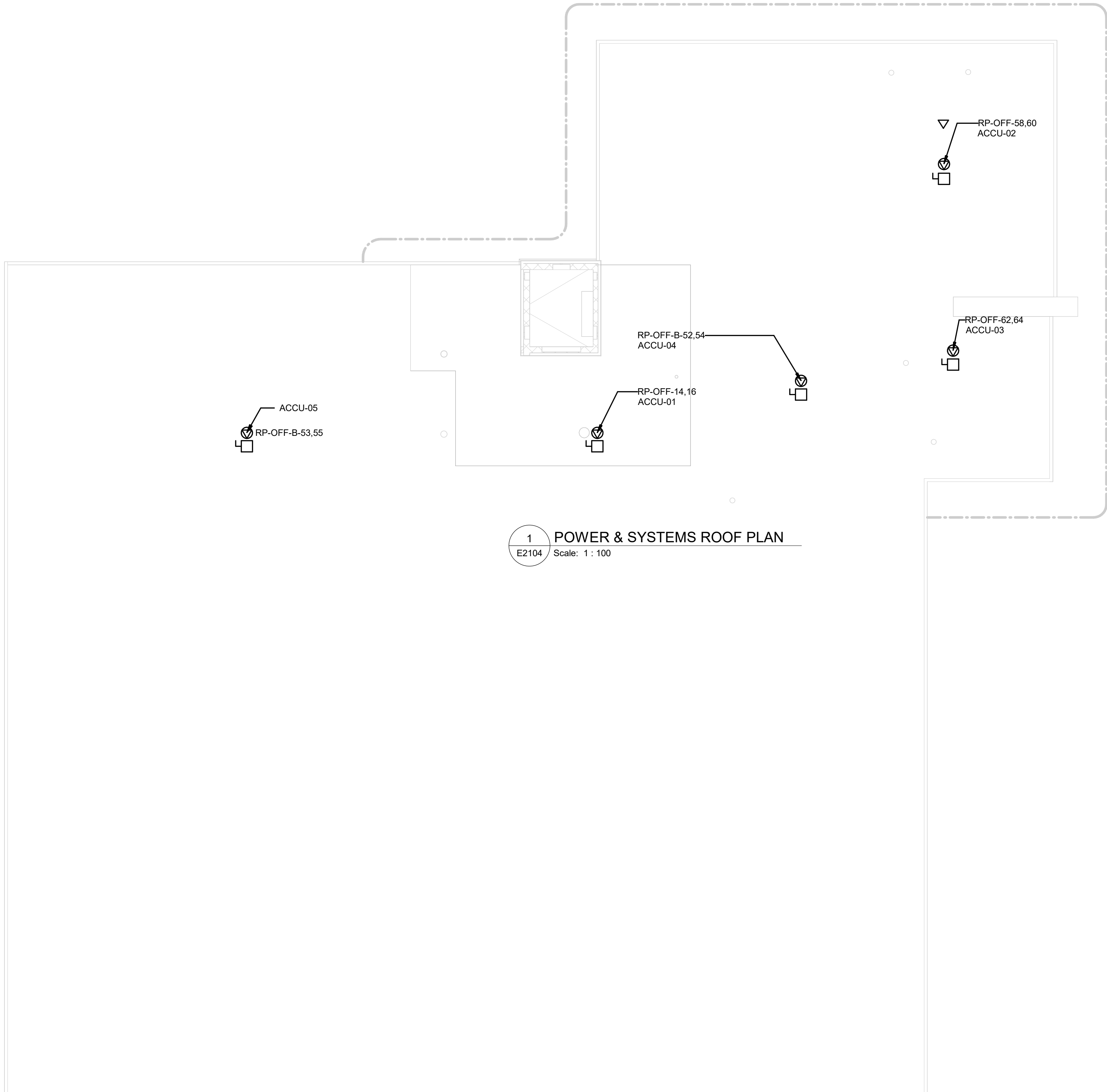
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1 POWER & SYSTEMS ROOF PLAN  
E2104 Scale: 1 : 100

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SHEET TITLE  
**POWER & SYSTEMS  
PLAN ROOF**

SHEET NUMBER

**G20-086-E2104**

ISSUE

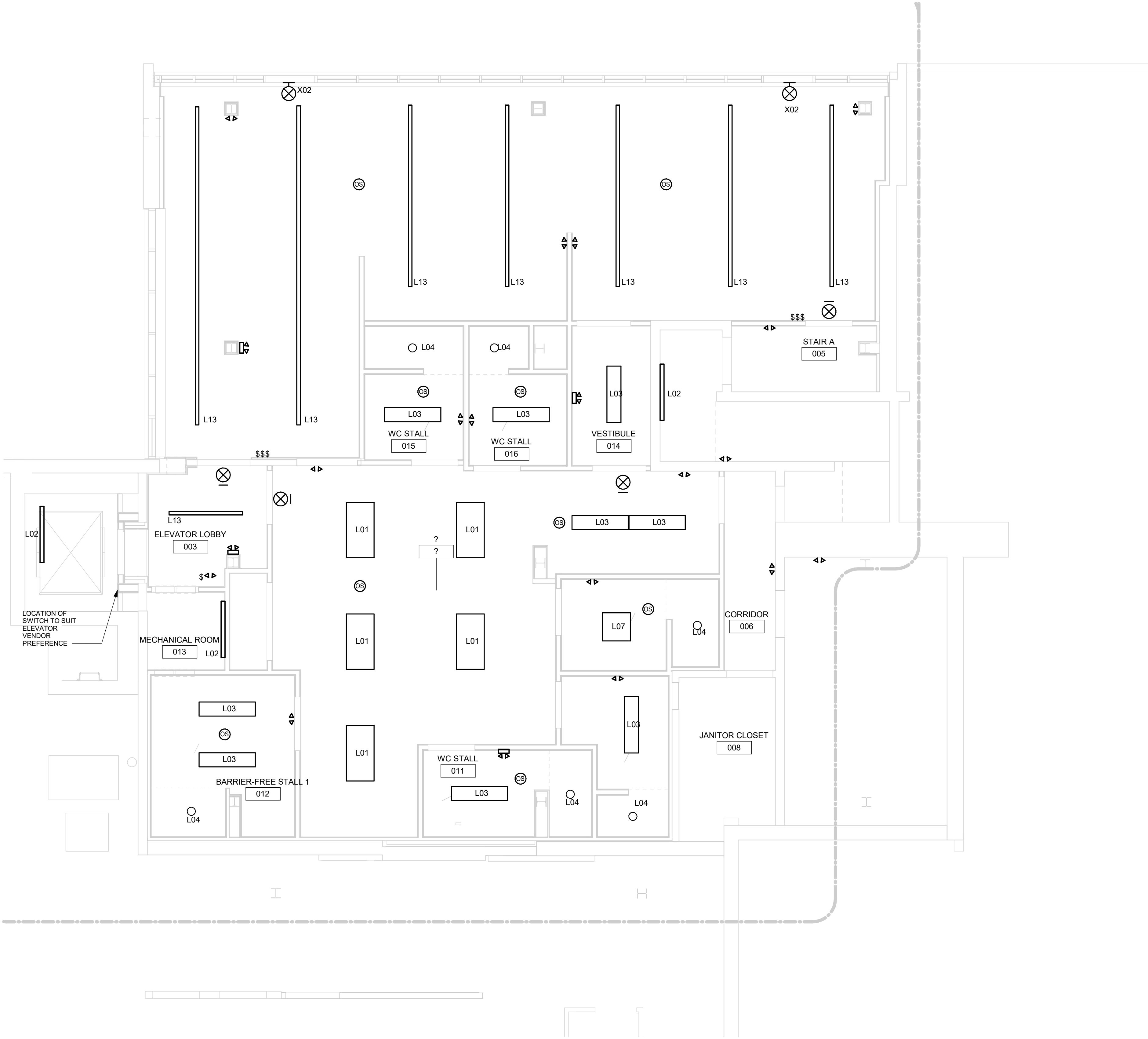
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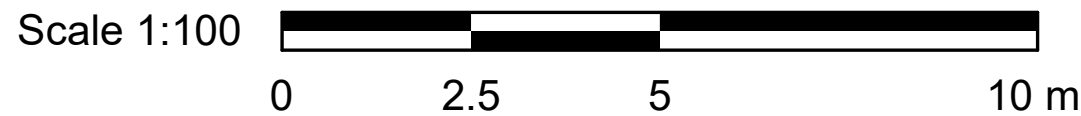
10mm

SCALE CHECK  
1 m





1 LIGHTING PLAN BASEMENT  
E3101 Scale: 1 : 50



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PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>Approver</b>

SHEET TITLE  
**LIGHTING PLAN -  
BASEMENT**

SHEET NUMBER <b>G20-086-E3101</b>	ISSUE <b>G</b>
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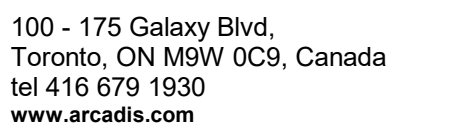
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**Author**

PROJECT MGR:  
F. BOLOURIAN

SHEET TITLE  
LIGHTING PLAN - UPPER  
LEVEL

SHEET NUMBER
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G20-086-E3102	
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SUE

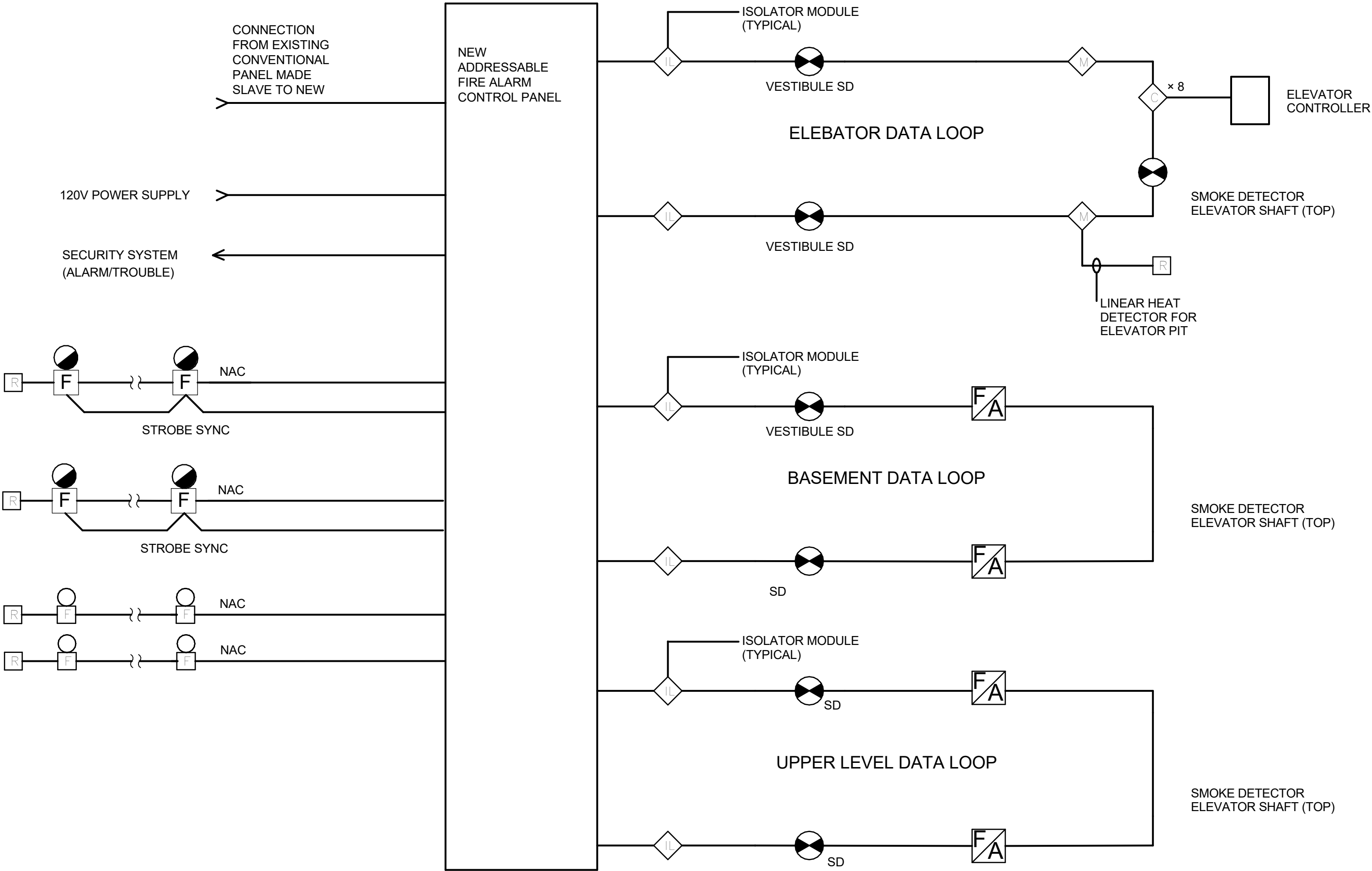
# G



Scale 1:100



0 2.5 5 10 m



NOTES:

- DEVICES AND WIRING TOPOLOGY SHOWN SCHEMATICALLY, ADJUST TO SUIT ACTUAL SYSTEM REQUIREMENT.
- PAINT FIRE ALARM SYSTEM PULL BOXES, FTP ENCLOSURES, AND JUNCTION BOXES RED IN COLOUR



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PROJECT NO:  
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DRAWN BY:  
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CHECKED BY:  
**Checker**

PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**Approver**

SHEET TITLE  
**FIRE ALARM RISER  
DIAGRAM**

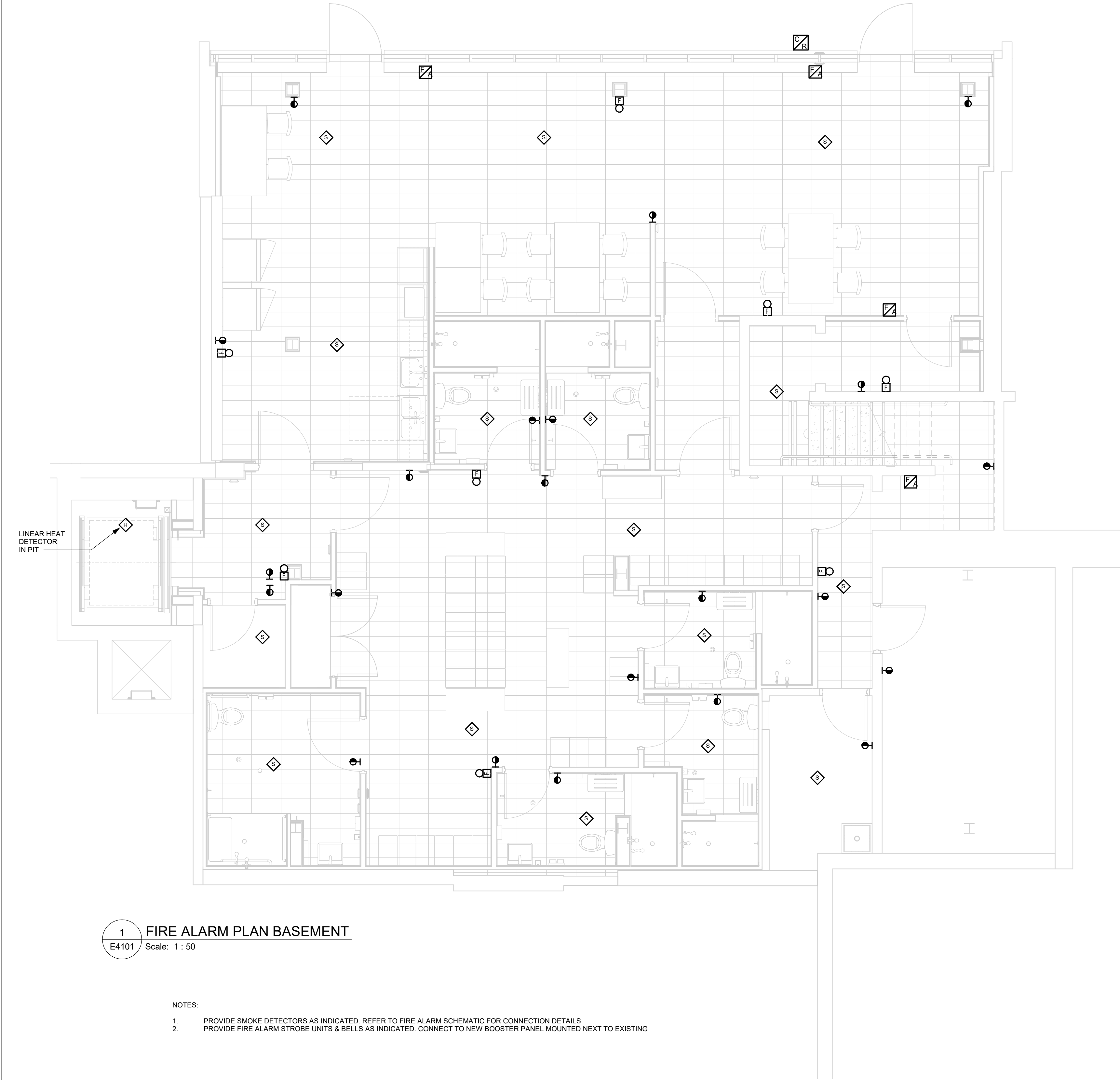
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**G20-086-E4001**

ISSUE

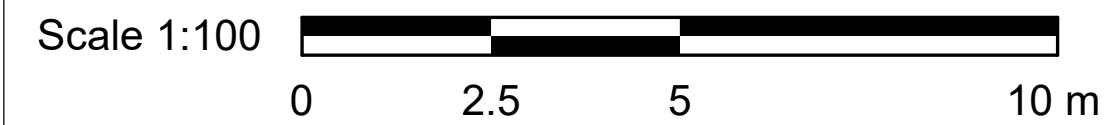
**G**





1 FIRE ALARM PLAN BASEMENT  
E4101 Scale: 1 : 50

- NOTES:
- PROVIDE SMOKE DETECTORS AS INDICATED. REFER TO FIRE ALARM SCHEMATIC FOR CONNECTION DETAILS
  - PROVIDE FIRE ALARM STROBE UNITS & BELLS AS INDICATED. CONNECT TO NEW BOOSTER PANEL MOUNTED NEXT TO EXISTING



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DRAWN BY:  
**Author**

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PROJECT MGR:  
**F. BOLOURIAN**

APPROVED BY:  
**Approver**

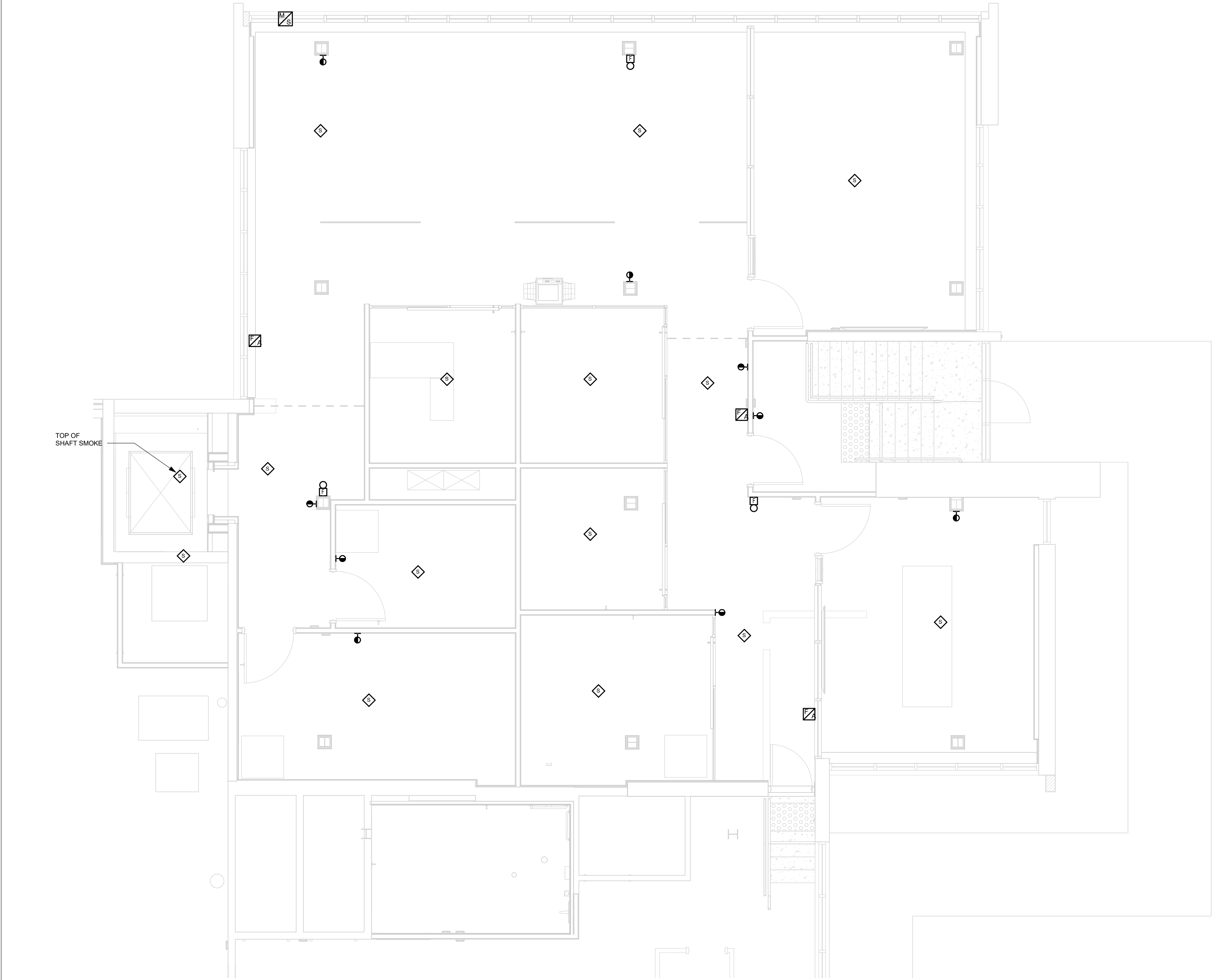
SHEET TITLE  
**FIRE ALARM PLAN -  
BASEMENT**

SHEET NUMBER

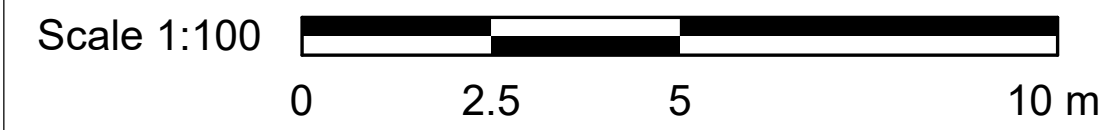
**G20-086-E4101**

ISSUE

**G**



1 POWER AND SYSTEMS PLAN UPPER LEVEL - ENLARGED PLAN  
E4102 Scale: 1 : 50



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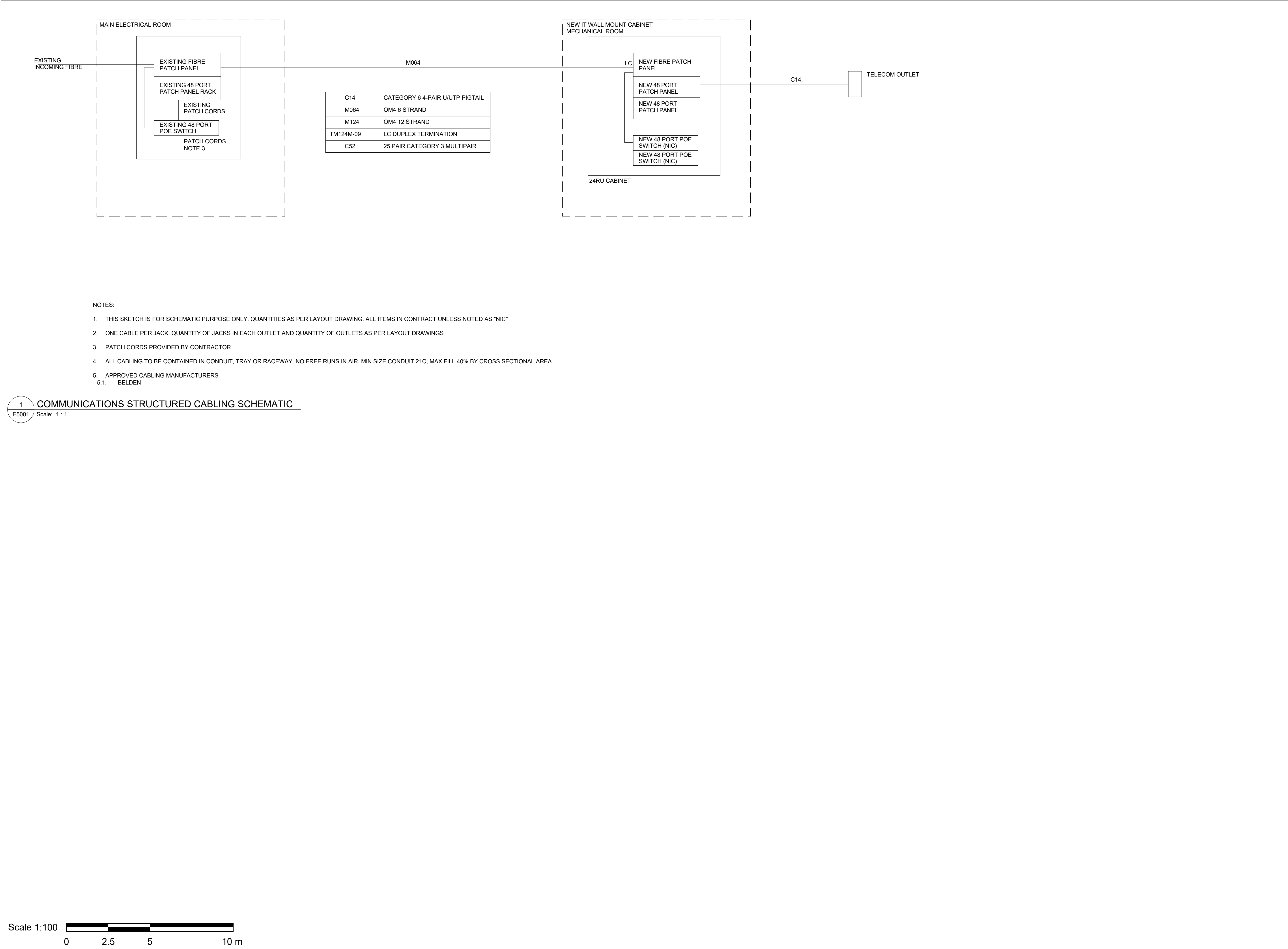
NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

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SHEET TITLE


FIRE ALARM PLAN -  
UPPER LEVEL

SHEET NUMBER	ISSUE
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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

NEW PARAMEDICS  
STATIONS  
160 RIVALDA RD

PROJECT NO:  
122260

DRAWN BY:  
Author

CHECKED BY:  
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PROJECT MGR:  
F. BOLOURIAN

APPROVED BY:  
Approver

SHEET TITLE

AUXILIARY SYSTEMS  
SCHEMATIC

SHEET NUMBER

G20-086-E5001

ISSUE

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