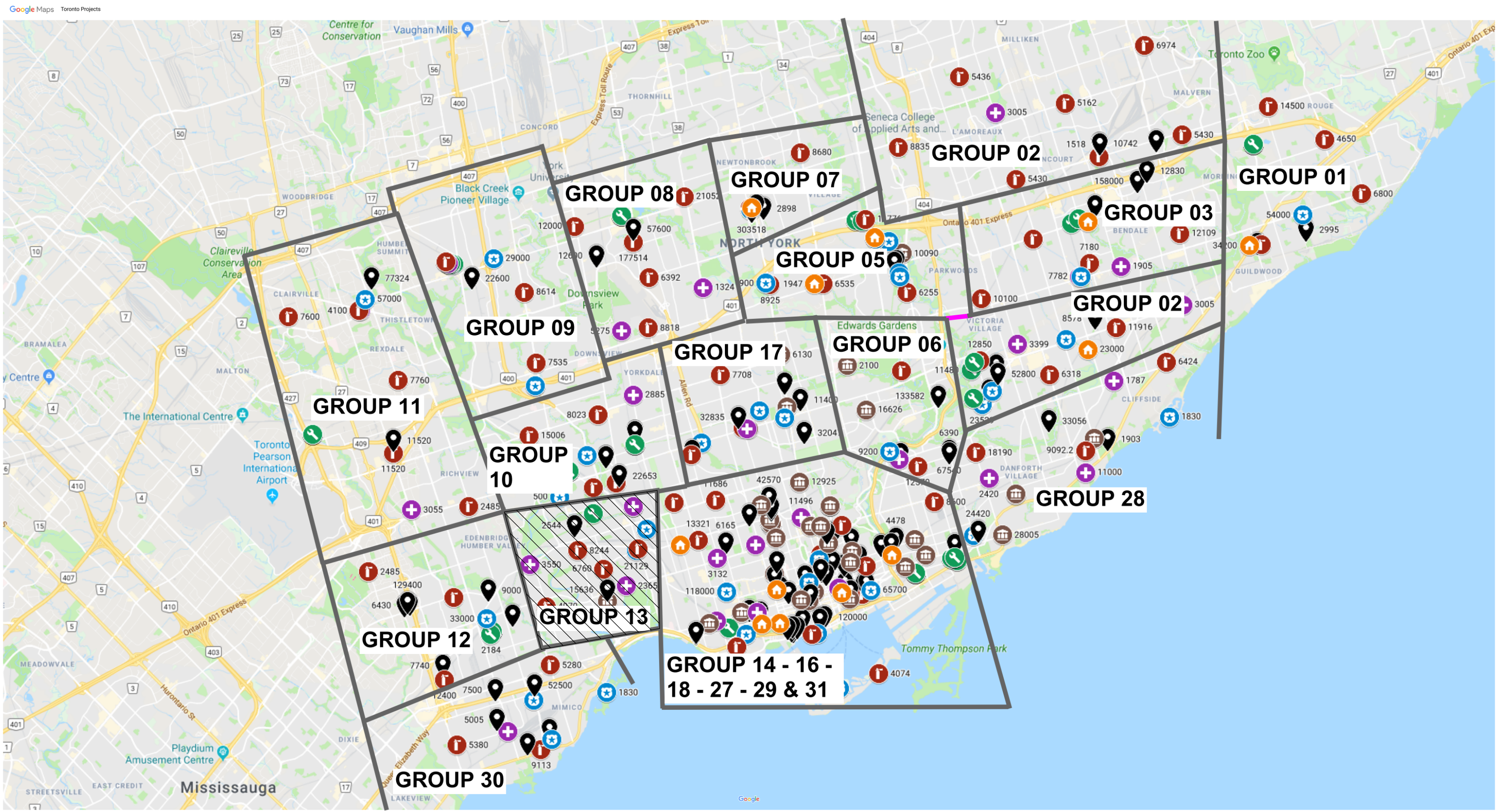


CITY OF TORONTO

ACCESSIBILITY UPGRADES

GROUP 5

9119- 19- 0162 / Arcadis 30279056



COVER PAGE GROUP 05	
SHEET #	SHEET TITLE
G05-GAL-G1001	COVER PAGE, GENERAL DRAWING LIST, BUILDING LIST

GENERAL LAYOUTS GROUP 05	
SHEET #	SHEET TITLE
G05-GAL-G1002	ARCHITECTURAL GENERAL NOTES, ABBREVIATIONS & REFERENCE SYMBOLS
G05-GAL-G1003	WALL TYPES
G05-GAL-G1004	DOOR TYPES
G05-GAL-G2001	STRUCTURAL GENERAL NOTES
G05-GAL-G2002	ABBREVIATIONS & SYMBOLES
G05-GAL-G3001	MECHANICAL LEGEND SHEET 1 OF 2
G05-GAL-G3002	MECHANICAL LEGEND SHEET 2 OF 2
G05-GAL-G4001	ELECTRICAL LEGEND SHEET 1 OF 2
G05-GAL-G4002	ELECTRICAL LEGEND SHEET 2 OF 2
G05-GAL-G4003	ELECTRICAL GENERAL NOTES

GROUP 05 BUILDING INDEX		
SERIAL #	BUILDING ADDRESS	BUILDING DESCRIPTION
1	10 WILLIAM CARSON CRESCENT	FIRE HALL NO. 121
10	1026 FINCH AVE. W	FINCH YARD BLDG A
30	125 MOATFIELD DR	DAVID DUNCAN HOUSE - RESTAURANT
48	14 DYAS RD	CITY CLERK'S RECORDS CENTRE
59	143 BOND AVE.	FIRE HALL NO. 123
83	160 DUNCAN MILL RD.	BUILDING
143	2545 BAYVIEW AVE.	FIRE HALL NO. 122
175	300 LESMILL RD.	BUILDING
249	50 UPJOHN RD.	POLICE NO. 33 DIVISION

TOUCH AND FEEL BOOKLET

TYPICAL DETAILS BOOKLET

NOT FOR CONSTRUCTION

ISSUED FOR TENDER

CITY OF TORONTO



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	ISSUED FOR TENDER	2025-04-11

PRIME CONSULTANT

ARCADIS

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

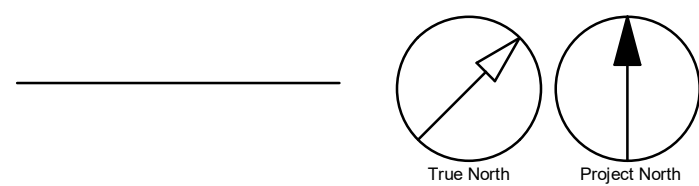
PROJECT NO: 9119- 19- 0162 / Arcadis 30279056	
DATE: 2025-04-11	
SHEET NUMBER G05-GAL-G0001	ISSUE D

ABBREVIATIONS

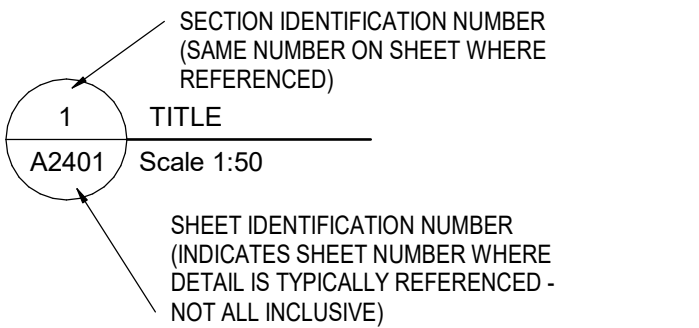
@	AT	ECB	EMERGENCY CALL BUTTON	LNS	LINOLEUM SHEET	RS	RUBBER SHEET FLOORING
A	ANGLE	ECF	EMERGENCY CALL SIGNAGE	LNT	LINOLEUM TILE	RST	RUBBER STAIR TREADS
A/C	AIR CONDITIONER / CONDITIONING	EF	EACH FREE	LP	LOW POINT	RSTR	RUBBER STAIR TREADS & RISERS
ABV	ABOVE	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	LT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

REFERENCE SYMBOLS

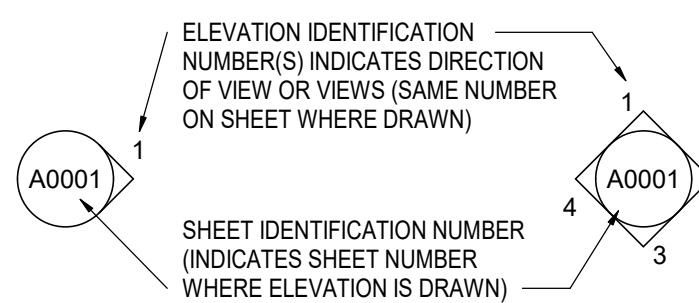
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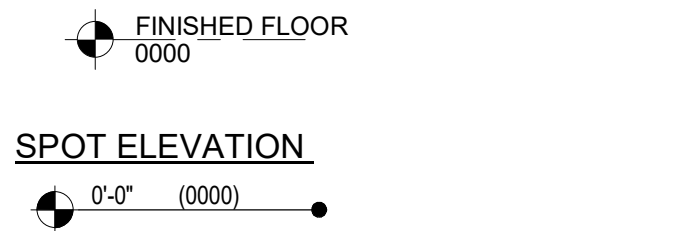
TITLE IDENTIFICATION



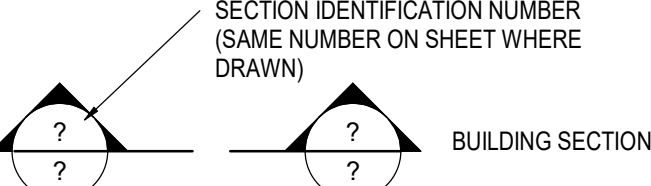
ELEVATION LOCATION IDENTIFICATION



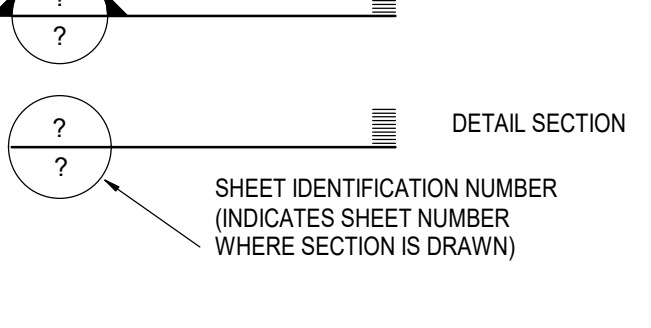
ELEVATION INDICATION - (FLOORS, ETC...)



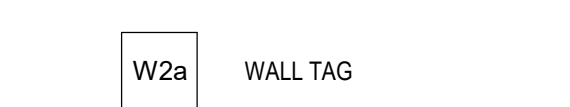
SECTION LOCATION IDENTIFICATION



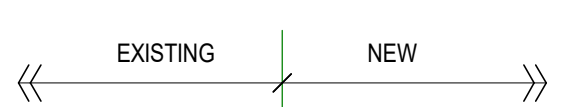
DETAIL LOCATION IDENTIFICATION



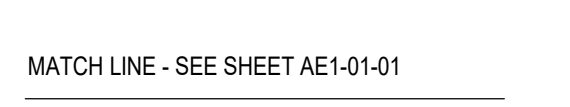
PARTITION TYPE INDICATION



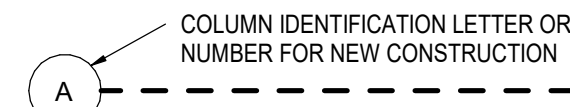
MATERIAL OR WORK DIVISION INDICATION



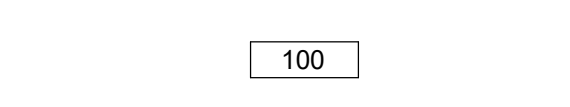
MATCH LINE INDICATION



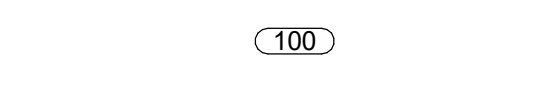
COLUMN INDICATION



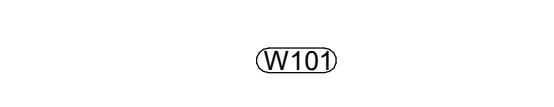
ROOM NAME AND NUMBER INDICATION



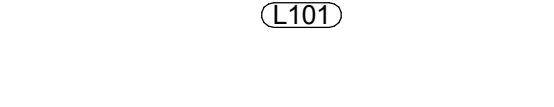
NEW DOOR NUMBER INDICATION



WINDOW NUMBER INDICATION



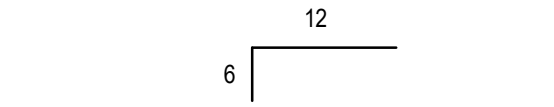
LOUVER NUMBER INDICATION



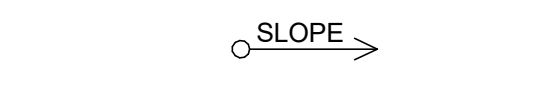
CEILING TAG



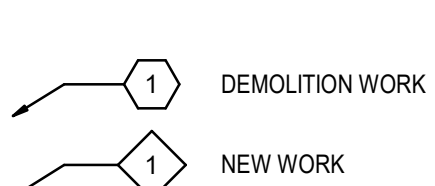
ROOF OR RAMP PITCH INDICATION



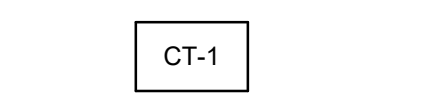
ROOF OR RAMP SLOPE INDICATION



KEYED NOTE SYMBOLS



FLOOR FINISH TAG



REVISION INDICATION



CAMERA VIEW



GENERAL NOTES

- PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, CITY OF TORONTO ACCESSIBILITY DESIGN GUIDELINES OCTOBER 7TH 2016 DRAFT AND ANY OTHER APPLICABLE REQUIREMENT OF AUTHORITIES HAVING JURISDICTION AND/OR LEGISLATION, PROVIDED THAT, IN THE CASE OF CONFLICT OR DISCREPANCY.
- THE CONSULTANT IS NOT RESPONSIBLE FOR INFORMATION CONCERNING THE SITE AND SURVEY INFORMATION PREPARED BY OTHERS.
- DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE ASSOCIATED STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS AND ALL OTHER RELEVANT CONSULTANT DRAWINGS.
- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO CONSULTANT.
- CONTRACTOR SHALL VERIFY THE SITE INFORMATION PRIOR TO PROCEEDING WITH THE WORK. FAILURE TO REPORT ANY DISCREPANCIES SHALL CONSTITUTE ACCEPTANCE OF THE SITE CONDITIONS.
- THE CONTRACTOR SHALL REVIEW THE DRAWINGS FOR SCOPE OF DEMOLITION AND NEW WORK, INCLUDING ALL DISCIPLINES, AND SHALL COORDINATE WITH NEW WORK DRAWINGS FOR EXACT EXTENT OF DEMOLITION.
- SCOPE OF WORK SHALL NOT BE LIMITED TO THAT SHOWN ON THE DRAWINGS AND SHALL INCLUDE WORK REQUIRED TO ELIMINATE ALL EXISTING, ABANDONED OR REDUNDANT COMPONENTS, AND TO FACILITATE PROPER EXECUTION OF THE WORK.
- ALL DIMENSIONS, INCLUDING EXISTING DIMENSIONS AND SETTING-OUT GEOMETRIES, SHALL BE SITE VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH THE WORK.
- COORDINATE AND PROVIDE APPROPRIATE CUTS TO ALL PARTITIONS FOR THE INSTALLATION OF DOOR FRAMES AS REQUIRED.
- PROVIDE 16-18 GA SHEET METAL REINFORCEMENT INSTALLED ON THE STUDS PRIOR TO INSTALLING THE GYPSUM BOARD IN THE LOCATIONS REQUIRED TO SUPPORT WALL MOUNTED ITEMS.
- ISOLATE ALL MECHANICAL PIPES DUCTS AND EQUIPMENT FROM INTERIOR PARTITIONS TO AVOID ACOUSTIC NOISE TRANSFER.
- MAINTAIN CONTINUITY OF BUILDING ENVELOPE AIR / VAPOUR BARRIER TRANSITIONS AND PENETRATIONS WITH MEMBRANES LAPPED AND APPROVED SEALANTS COMPATIBLE WITH MEMBRANE PRODUCTS USED.
- REINSTATE INTEGRITY OF FIRE SEPARATION WHEN PATCHING, PROVIDE AND INSTALL FIRE STOPPING AND SMOKE SEALS AT ALL NEW SERVICE PENETRATIONS THROUGH FLOORS, WALLS AND CEILINGS IN ACCORDANCE WITH OBC, LATEST EDITION REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR ANY FIRE DAMPER REQUIREMENTS.
- ENSURE THAT FOR ALL FIRE SEPARATIONS INDICATED ON THE DRAWINGS, ALL COMPONENTS OF THE ASSEMBLY SHALL BE OF APPROVED MATERIALS, AND INSTALLATION/FABRICATION PROCEDURES ARE PER DIRECTION OF THE INDICATED "UNDERWRITERS LABORATORIES OF CANADA LTD." LATEST EDITION MANUAL AND OTHERWISE MEETING THE REQUIREMENTS OF THE ONTARIO BUILDING CODE. ALL FIRE SEPARATIONS MUST BE CONTINUOUS, AND ALL JOINTS TO BE SMOKE TIGHT. MAINTAIN CONTINUITY OF ALL FIRE SEPARATIONS AND PENETRATIONS WITH APPROVED U.L.C. LISTED FIRE STOPPING SYSTEMS AND FIRE SEALANTS BOTH SIDES OF PARTITIONS.
- ULC LISTED FIRE-RATED SEALANT IS TO BE APPLIED TO ALL FIRE-RATED PARTITIONS AND LEFT EXPOSED FOR INSPECTION PURPOSES
- FOR ALL SUPPORTS AND CONNECTIONS OF EQUIPMENT PROVIDE SHOP DRAWINGS DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENCED IN THE PROVINCE OF ONTARIO. .
- WHERE ITEMS NOTED TO BE DEMOLISHED MEET EXISTING WALLS / CEILING AND/OR FLOOR TO REMAIN, PATCH REPAIR AND MAKE GOOD EXISTING SURFACES. PROVIDE NEW INFILL MATERIAL TO MATCH EXISTING AND. MAINTAIN ALL FIRE RATED WALL CONSTRUCTION
- PROVIDE CUTTING, PATCHING AND CORING OF ALL WALLS, CEILING, ROOF AND OTHER SURFACES AS REQUIRED TO PERFORM THE WORK. PRIOR TO CUTTING OR CORING, SCAN THE SLAB/WALL/ROOF AND COORDINATE DRILLING/CUTTING TO AVOID CUTTING REINFORCING, CONDUITS, WIRING AND OTHER HIDDEN ITEMS. OBTAIN WRITTEN VERIFICATION OF PROPOSED DRILLING AND CUTTING LOCATIONS FROM THE STRUCTURAL ENGINEER.
- PATCH REPAIR AND MAKE GOOD EXISTING FLOOR SLAB.. IDENTIFY ON AS-BUILTS ALL LOCATIONS OF PATCH WORK
- BEFORE COMMENCING WORK, ESTABLISH LOCATION AND EXTENT OF EXISTING SERVICE LINES IN AREA OF WORK AND NOTIFY CONSULTANT OF FINDINGS. WHERE UNKNOWN SERVICES ARE ENCOUNTERED, IMMEDIATELY ADVISE AND CONFIRM FINDINGS IN WRITING.
- PROVIDE FOR DEMOLITION OF INCLUDING BUT NOT LIMITED TO, EXISTING WALLS, FLOORS, CEILINGS, ASSOCIATED FINISHES, MECHANICAL AND ELECTRICAL FIXTURES, DEVICES, DUCTS TO ALLOW FOR NEW WORK TO BE INSTALLED. COORDINATE BETWEEN TRADES FOR REMOVAL.
- CONCEAL ALL MECHANICAL AND ELECTRICAL WORK IN WALLS AND CEILINGS, EXCEPT AS INDICATED OTHERWISE OR APPROVED.
- VAPOUR BARRIER TO BE CONTINUOUS UNDER ALL NEW FLOOR SLABS. PATCH ALL CONCRETE CORE TEST AREAS, DEFECTS AND DEMOLITION LOCATIONS.
- ALL SPECIFIED MATERIALS SHALL BE INSTALLED AND FINISHED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. SHOULD SUCH INSTRUCTIONS DIFFER FROM THE SPECIFICATIONS OR DETAILS, ADVISE CONSULTANT IMMEDIATELY FOR DIRECTION.
- DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL SIMILAR CONDITIONS UNLESS NOTED OR DETAILED OTHERWISE.
- BRING ALL OMISSIONS AND DISCREPANCIES, INCLUDING DIMENSIONS, TO THE ATTENTION OF THE CONSULTANT PRIOR TO COMMENCEMENT OF ANY WORK.
- FULLY COORDINATE ALL ADDITIONAL SUPPORT REQUIRED FOR ANCHORAGE OF MECHANICAL EQUIPMENT OR DUCTS AND ELECTRICAL FIXTURES/EQUIPMENT. PROVIDE SEISMIC RESTRAINT DRAWINGS STAMPED BY A THIRD PARTY PROFESSIONAL ENGINEER LICENCED IN THE PROVINCE OF ONTARIO.
- WALL ASSEMBLIES SHALL EXTEND TO UNDERSIDE OF ROOF OR STRUCTURE ABOVE UNLESS NOTED OR DETAILED OTHERWISE
- REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF ALL ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING AND RECEPTACLE LOCATIONS.
- REFER TO MECHANICAL DRAWINGS FOR LOCATION OF ALL MECHANICAL EQUIPMENT AND PROVISIONS.
- REFER TO STRUCTURAL DRAWINGS FOR LOCATION AND SIZING OF ALL STRUCTURAL ELEMENTS
- DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
- REMOVAL AND DISPOSAL OF HAZARDOUS MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL REGULATIONS AND AUTHORITIES HAVING JURISDICTION.
- UNLESS NOTED OTHERWISE, MAKE GOOD ALL AREAS DISTURBED BY EXCAVATION AND/OR INSTALLATION OF CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL SERVICES. REFER TO CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- PROPER HOARDING AROUND ALL NEW EXTERIOR WORK LOCATIONS TO BE PROVIDED.

CLIENT

CITY OF TORONTO

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

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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	ISSUED FOR TENDER	2025-04-11

CONSULTANTS

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PROJECT TITLE

CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY:
A. BOYNARIAN

CHECKED BY:
L. BANDIERA

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
E. FENUTA

SHEET TITLE

GENERAL NOTES,
ABBREVIATIONS &
REFERENCE SYMBOLS

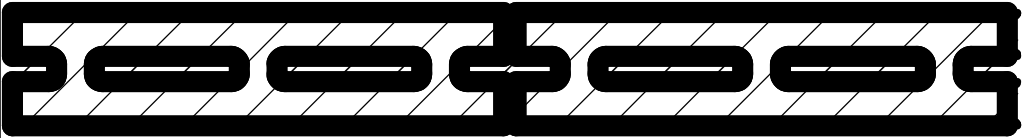
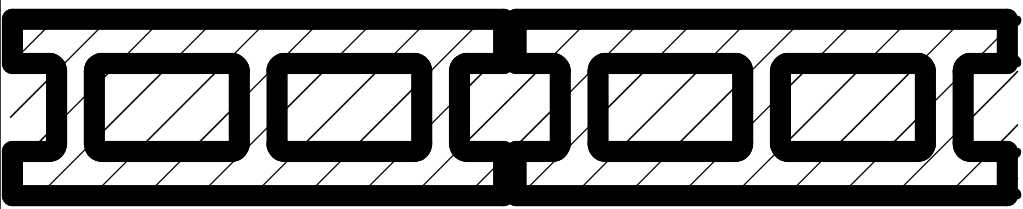
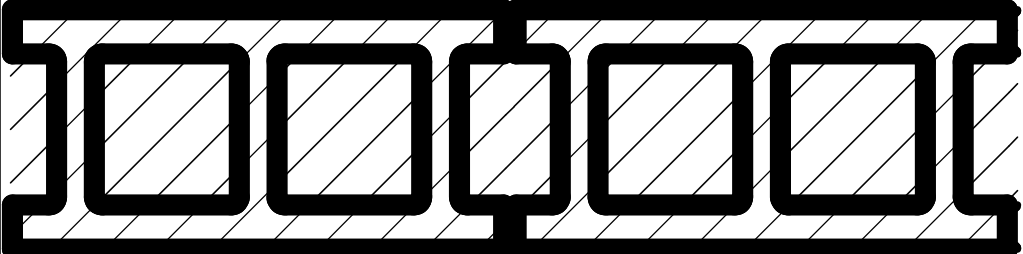
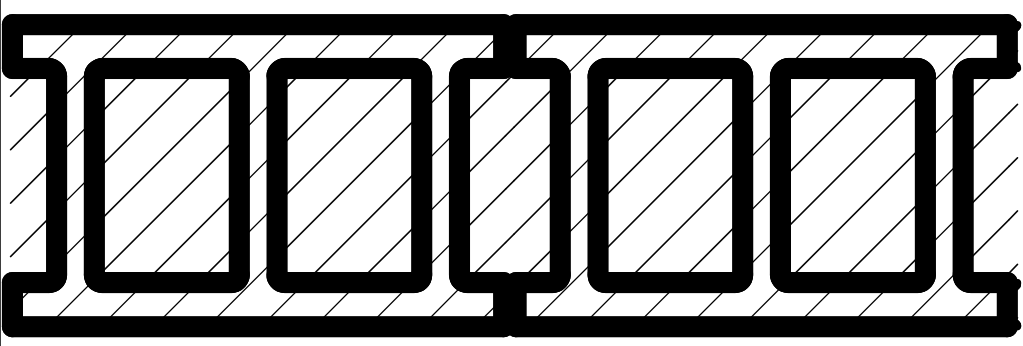
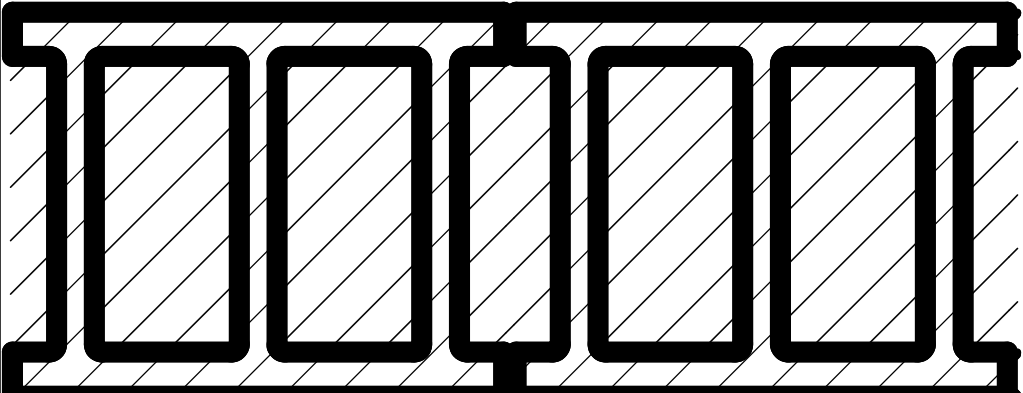
SHEET NUMBER

G05-GAL-G0002

ISSUE

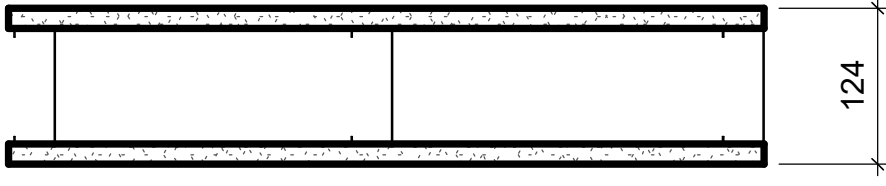
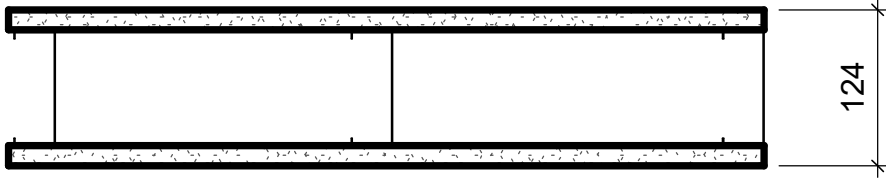
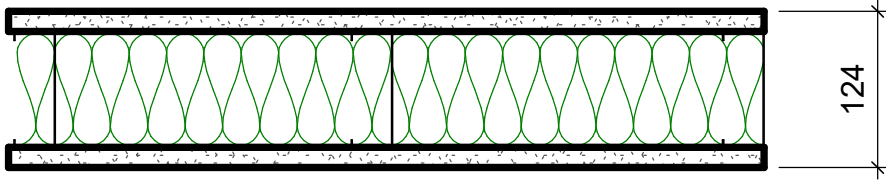
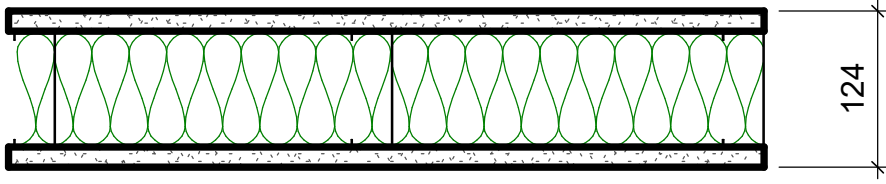
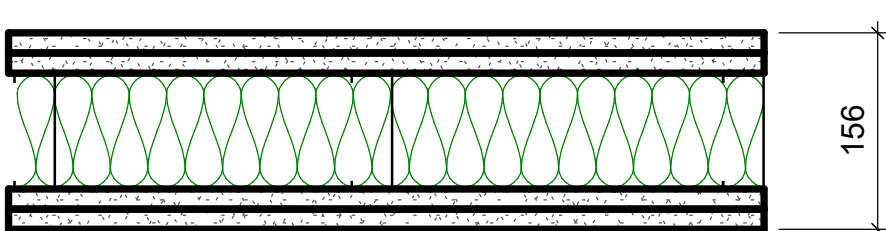
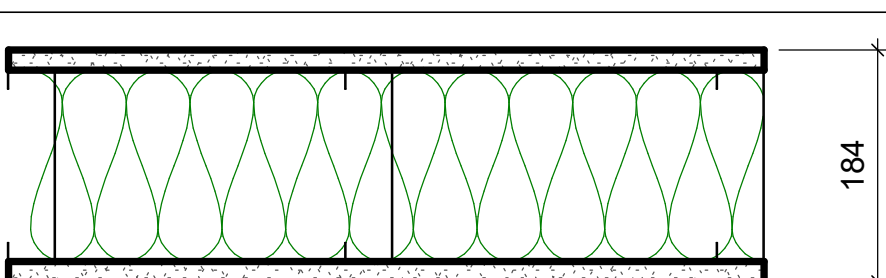
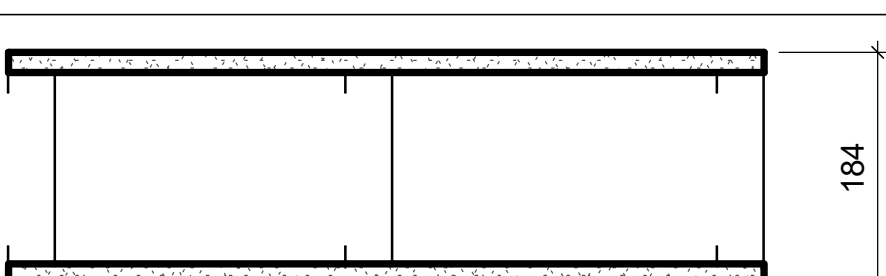
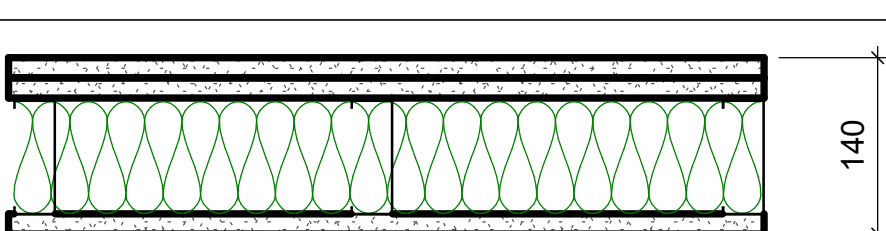
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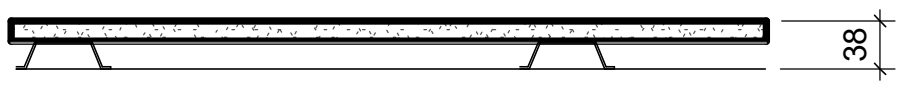
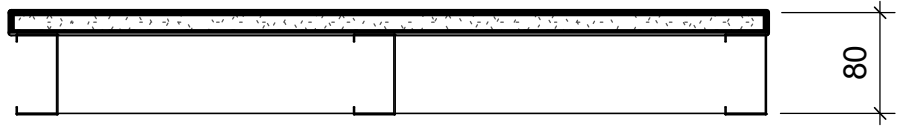
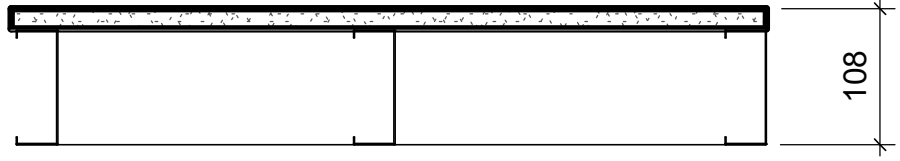
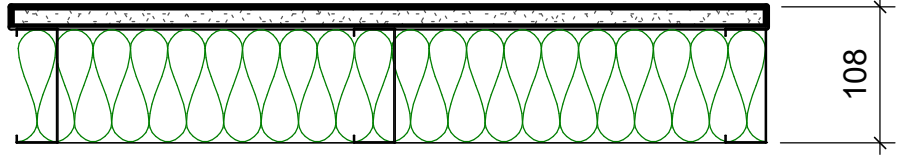
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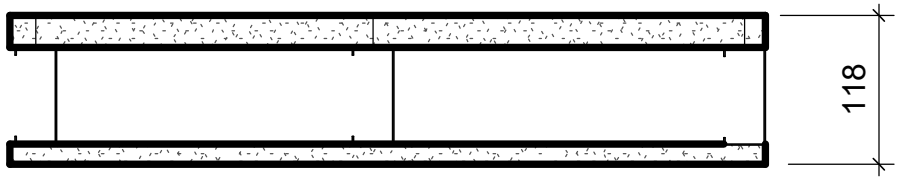
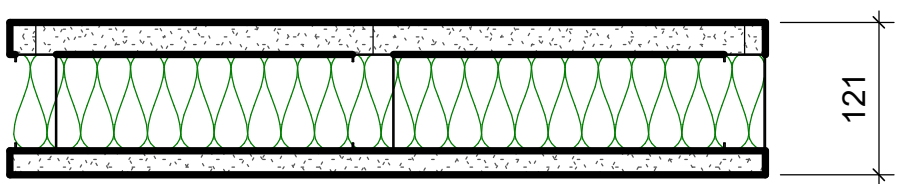
CONCRETE BLOCK				
TYPE NO.	ASSEMBLY	DESCRIPTION	FRR	STC
W1a		- 90mm CONCRETE BLOCK NORMAL WEIGHT TO U/S OF DECK/ SLAB ABOVE		44
W1b		- 140mm CONCRETE BLOCK NORMAL WEIGHT TO U/S OF DECK/ SLAB ABOVE	1.0 HR OBC SB-2	46
W1c		- 190mm CONCRETE BLOCK NORMAL WEIGHT TO U/S OF DECK/ SLAB ABOVE	2.0 HR OBC SB-2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

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)

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	

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

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PROJECT TITLE
CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO: 9119- 19- 0162 / Arcadis 30279056	
DRAWN BY: A. BOYNARIAN	CHECKED BY: L. BANDIERA
PROJECT MGR: F.BOLOURIAN	APPROVED BY: E. FENUTA

SHEET TITLE
WALL TYPES

SHEET NUMBER G05--GAL-G0003	ISSUE D
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BM 380/112280 - CoT TAU Upgrades R202012280-TAU-G05-General-R20.rvt

10mm

SCALE CHECK
1 in

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 #12. THE WIND AND SEISMIC PARAMETERS FOUND IN NOTE #13, AND FOR SITE CLASS D, $F_s = 1.24$, $F_v = 1.55$ $1/(F_s(0.2) + 0.271)$ $R_s = 1.5$, $R_v = 1.3$ (CONVENTIONAL CONSTRUCTION OF MOMENT-RESISTING FRAMES AND BRACED FRAMES), AND NO IRREGULARITIES, USING STATIC ANALYSIS IN BOTH DIRECTIONS.
2. LATERAL LOADS DUE TO WIND AND SEISMIC FORCES ACT THROUGH THE METAL ROOF DECK DIAPHRAGM, AND ARE RESISTED BY MOMENT-RESISTING FRAMES IN THE NORTH-SOUTH DIRECTION AND BY BRACED FRAMES IN THE EAST-WEST DIRECTION.
3. ROOF ELEMENTS SUCH AS JOISTS, JOISTS GIRDERS, METAL DECK, ETC. AND THEIR CONNECTIONS TO THE SUPPORTING STRUCTURE ARE TO BE DESIGNED FOR UPWARD SUCTION DUE TO WIND.
4. ROOF STRUCTURE (INCLUDING JOISTS AND JOIST GIRDERS) IS TO BE DESIGNED FOR PONDING, INCLUDING PONDING INSTABILITY. MAXIMUM DESIGN PONDING DEPTH AT ROOF DRAINS TO BE 150 mm.
5. AS A MINIMUM, WIND LOADS SHALL BE CALCULATED ON THE BASIS OF OPEN TERRAIN AND BUILDING CATEGORY 3 AS DEFINED IN THE USER'S GUIDE - NBC 2015 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B). IF OTHER PROVISIONS OF SAID COMMENTARIES RESULT IN HIGHER WIND LOADS AND/OR MORE STRINGENT WIND EFFECTS, THESE LOADS AND EFFECTS SHALL BE CONSIDERED IN THE DESIGN.
6. ALL LOADS SHOWN ON DRAWINGS ARE SPECIFIED (NO LOAD FACTOR APPLIED) LOADS UNLESS NOTED OTHERWISE. HOWEVER, (ULS) IMPORTANCE FACTORS ARE APPLIED, UNLESS NOTED OTHERWISE.
7. ALL LOAD EFFECTS (AXIAL FORCES, SHEARS, MOMENTS AND TORSIONS) ARE FACTORED, UNLESS OTHERWISE NOTED.
8. DESIGN SPECIFIED (UNFACTORED) DEAD AND LIVE LOADS ARE SHOWN ON THE DRAWINGS.
9. STRUCTURES ARE NOT STABLE UNTIL ALL COMPONENTS (INCLUDING BUT NOT LIMITED TO MOMENT CONNECTIONS, BRACING, FLOOR & ROOF DECK AND SHEATHING) ARE CONSTRUCTED.
10. MATERIALS:
- | | |
|-----------------------------------|---|
| STRUCTURAL STEEL: | CAN/CSA-G40-20/G40.21, GRADE 350W FOR W-SECTIONS. GRADE 300W FOR OTHERS. YIELD STRENGTH = 350 MPa MIN. |
| COLD-FORMED STEEL: | |
| 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 20F BENDING STRESS, UNLESS NOTED OTHERWISE. 12CE COMPRESSION STRESS, UNLESS NOTED OTHERWISE. |
| | PLYWOOD: CSA 0151 SOFTWOOD EXTERIOR GRADE. |

12. STRUCTURE HAS BEEN ASSIGNED THE 1 IMPORTANCE CATEGORY, AS DEFINED IN THE APPLICABLE EDITION OF THE ONTARIO BUILDING CODE.
13. STRUCTURES HAVE BEEN DESIGNED CONSIDERING THE FOLLOWING CLIMATIC AND SEISMIC DATA:

WIND	SEISMIC	SNOW	RAIN
q 1/50 = 0.47	Sa(0.2) = 0.190 Sa(0.5) = 0.110 Sa(1.0) = 0.068 Sa(2.0) = 0.022 PGA = 0.076	Ss = 1.2 Sr = 0.4	ONE DAY = 92

14. THE STRUCTURE HAS BEEN DESIGNED FOR FUTURE EXPANSION AS SHOWN.
15. 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 NOMINAL BAR DIAMETER (#2)	1.0 (#1)	1.5	2.0
RATIO OF COVER TO NOMINAL 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. MAXIMUM 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 200 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 200 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.
12. MORTAR SHALL BE TYPE :S: PREPARED BY PROPORTION SPECIFICATION IN ACCORDANCE WITH CAN/CSA-A179.
13. HOLLOW CONCRETE BLOCK MASONRY WITH MORTAR TYPE "S" SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 12.5 MPa - f_m.
14. ALL INTERSECTING MASONRY WALLS TO HAVE MASONRY BOND OR HEAVY DUTY (BLOCK-LOCK) OR EQUIVALENT AT 200mm VERTICALLY MAXIMUM.
15. A MINIMUM 50 mm WIDE ISOLATION JOINT SHALL BE PROVIDED AT ALL LOCATIONS WHERE MASONRY WALLS INTERSECT VERTICAL FACES OF CONCRETE STRUCTURE. NO POSITIVE CONNECTION BETWEEN MASONRY MASONRY WALLS AND VERTICAL FACES OF CONCRETE STRUCTURE SHALL BE MADE.
16. CONCRETE AND STEEL BEAMS BEARING ON MASONRY WALLS SHALL HAVE A MINIMUM BEARING OF 200mm UNLESS OTHERWISE NOTED ON PLAN.
17. PROVIDE 15M DOWELS WITH 150 mm MIN. EMBEDMENT TO THE EXISTING SLAB TO MATCH ALL VERTICAL REINFORCING, UNLESS NOTED OTHERWISE. SCAN EXISTING SLAB PRIOR TO DOWEL INSTALLATION.
18. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES FOR MECHANICAL AND ELECTRICAL TRADES AS SPECIFIED ON PLANS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS AND RECESSES.
19. PROVIDE VERTICAL REINFORCEMENT IN ALL NON-LOAD BEARING CMU WALLS AS FOLLOWS IN ADDITION TO THAT NOTED IN (2):
- | WALL THK. | MAX HEIGHT. | REINFORCEMENT. |
|-----------|-------------|----------------|
| 140mm | 4200mm | 15M@600 |
| 190mm | 5500mm | 15M@600 |
| 240mm | 6000mm | 15M@600 |

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No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-04-27
B	90% SUBMISSION	2022-07-29
C	ISSUED FOR PERMIT	2022-07-29
D	ISSUED FOR TENDER	2022-12-09
E	ISSUED FOR TENDER	2025-04-11

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PROJECT TITLE

CITY OF TORONTO

ACCESSIBILITY UPGRADES

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SHEET TITLE

STRUCTURAL - GENERAL

NOTES

SHEET NUMBER

G05-GAL-G2000

ISSUE

E

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 FY = 400MPa AND F'C=35MPa TO BE AS PER TABLE BELOW, UNLESS OTHERWISE SHOWN ON DRAWINGS.

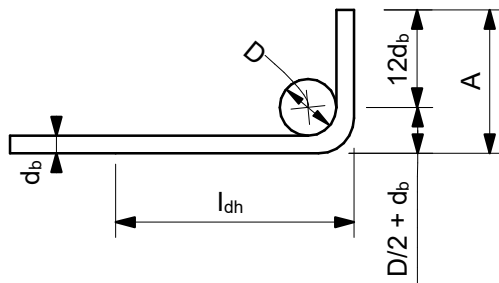
fc' = 35MPa				fy = 400MPa		
BAR SIZE	TENSION STEEL				COMPRESSION STEEL	
	HORIZONTAL TOP BARS*		ALL OTHER BARS**			
	DEVELOPMENT	SPLICES	DEVELOPMENT	SPLICES	DEVELOPMENT	LAP SPLICES
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
10	360	470	280	370	200	330
15	510	670	390	510	290	470
20	620	810	480	630	350	590
25	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

fc' = 35MPa		fy = 400MPa	
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) = 0.7x100db / fc'^{0.5} > 150 OR 8 db.

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
BRK	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
CW	complete with	PSI	pounds per square inch
DET	detail	RCB	reinforced concrete beam
DIA	diameter	REF	reference
DIAG	diagonal	REINF	reinforcement
DIM	dimension	REMV	removable
DL	dead load	REQD	required
DO	door opening	RR	railroad
DWG	drawing	R/W	reinforced with
DWL	dowel	SCH	schedule
EA	each	SECT	section
EF	each face	SIM	similar
EL	elevation	SOG	slab on grade
ELEC	electrical	SP	space
EMB	embedment	SPEC	specifications
EQ	equal	SQ	square
EQPT	equipment	SSC	structural steel contract
EW	each way	STAGG	staggered
EXP	expansion	STD	standard
EX	existing	STIFF	stiffener
EXT	exterior	STL	steel
FDN	foundation	STRU	structural
FDNC	foundation contract	SYM	symmetrical
FIN	finish	t	thickness
FL	floor	T	tread
FLG	flange	T&B	top and bottom
FT	feet	TC	top chord
FTG	footing	TEMP	temperature
FUT	future	THK	thick
GA	gauge	TL	total load
GC	general contract	TOF	top of footing
GALV	galvanized	TOS	top of steel
GENL	general	TYP	typical
GOL	gauge outstanding leg	UON	unless otherwise noted
GR	grade	VERT	vertical
GRT	grating	VIF	vertical inside face
H	high	VOF	vertical outside face
HEF	horizontal each face	W	width (wide)
HGR	hanger	W	width
HGT	height	W/O	without
HH	hooked-hooked	WP	working point
HIF	horizontal inside face	WPL	wall plate
HOF	horizontal outside face	WS	water stop
HORIZ	horizontal	WT	weight
		WWF	welded wire fabric

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C	ISSUED FOR PERMIT	2022-07-29
D	ISSUED FOR TENDER	2022-12-09
E	ISSUED FOR TENDER	2025-04-11

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PROJECT TITLE
CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY:
G. POULOU

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M. FAYAZI

PROJECT MGR:
N. FRISCI

APPROVED BY:
K. ANGER

SHEET TITLE
STRUCTURAL - GENERAL
NOTES, SYMBOLS &
ABBREVIATIONS

SHEET NUMBER

G05-GAL-G2002

ISSUE

E

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

- FOR ROOF OPENING AND ROOF CURB DETAILS SEE ARCHITECTURAL DRAWINGS.
- ALL FRESH AIR OR EXHAUST AIR LOUVRES IN BUILDING WALLS BY GENERAL TRADES UNLESS OTHERWISE NOTED. FOR DETAILS SEE ARCHITECTURAL DRAWINGS.
- ALL STORM COLLAR FLASHINGS BY MECHANICAL FOR DETAILS OF FLASHINGS SEE ARCHITECTURAL DRAWINGS.
- 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.
- 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.
- THIS IS THE STANDARD SHEET FORM NOT ALL ITEMS ARE ASSOCIATED WITH THIS PROJECT.
- ALL EXISTING SERVICES TO REMAIN UNLESS NOTED OTHERWISE.
- ALL SYSTEMS TO REMAIN FUNCTIONAL UNLESS PERMISSION FOR SHUTDOWN IS GRANTED BY THE OWNER.

GENERAL NOTES: PLUMBING & DRAINAGE

- ALL SANITARY DRAINS NPS 4 SIZE & LARGER SHALL SLOPE AT 1.0%. ALL SANITARY DRAINS NPS 3 & SMALLER SHALL SLOPE AT 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.
- ALL VENTING AND TRAP SEAL PRIMER NOT SHOWN BUT REQUIRED, SHALL BE BY PLUMBING CONTRACTOR.
- ALL DOMESTIC COLD AND HOT WATER PIPING SHALL BE THERMALLY INSULATED.
- ALL ABOVE GROUND HORIZONTAL RAIN WATER LEADER AND STORM DRAIN SHALL BE THERMALLY INSULATED.

GENERAL NOTES: FIRE PROTECTION

- 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.
- 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.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF DUCTWORK, PIPING, AND LIGHTING FIXTURES, ETC.
- 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.
- PROVIDE TYPE ABC FIRE EXTINGUISHERS AS PER ONTARIO FIRE CODE. FINAL LOCATION TO BE COORDINATED ON FIELD.
- FIRE PROTECTION CONTRACTOR TO PROVIDE PIPE HANGERS AS PER NFPA 13.
- FIRE PROTECTION SYSTEM SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13.
- CONTRACTOR TO CONDUCT FLOW TEST AND USE THE RESULTS FOR HYDRAULIC CALCULATIONS.
- 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.
- PIPE DIMENSIONS TO BE DETERMINED BY THE RESULTS OF HYDRAULIC CALCULATION.
- SPRINKLER SYSTEMS TO BE HYDRAULICALLY DESIGNED TO DELIVER THE DENSITIES OVER THE MOST REMOTE AREA AS LISTED IN THE SCHEDULE.
- SPRINKLER COVERAGES INDICATED ARE TO BE CONFIRMED BY FIRE PROTECTION CONTRACTOR.
- 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.
- SPRINKLER SHOWN ARE FOR COORDINATION PURPOSE ONLY. FINAL LOCATION OF THE SPRINKLERS TO BE DETERMINED BY FIRE PROTECTION CONTRACTOR BASED ON HYDRAULIC CALCULATIONS.
- USE UPRIGHT SPRINKLER IN SPACE WITHOUT CEILING.
- LOCATE SPRINKLER HEADS IN THE CENTRE OF CEILING TILES.
- SPRINKLER HEAD LOCATION TO BE COORDINATED WITH ARCHITECT PRIOR TO SHOP DRAWING PRODUCTION.
- PIPING AND SPRINKLER HEADS MARKED FOR DEMOLITION TO BE REMOVED AND DISPOSED OF FROM SITE UNLESS OTHERWISE NOTED.
- REFER TO EXISTING SHOP DRAWINGS.
- ALL EXISTING SPRINKLERS TO BE ADJUSTED TO SUIT NEW BUILDING LAYOUT IN ACCORDANCE WITH NFPA 13.
- PROVIDE FIRE WATCH DURING SHUT DOWN.

GENERAL NOTES: HVAC

- ALL DUCTWORK TO BE INSTALLED TO LOW-PRESSURE DUCTWORK TO S.M.A.C.N.A. STANDARDS.
- DUCTWORK: FABRICATED OF PRIME QUALITY GALVANIZED STEEL SHEETS WITH Z275 (G90) DESIGNATION ZINC COATING TO ASTM A653/A653M
- ALL DUCTWORK C/W SEAL CLASS 'A' AS PER S.M.A.C.N.A. STANDARDS.
- ALL EXHAUST DUCTWORK SHALL BE THERMALLY INSULATED FOR 1500mm BEFORE EXITING THE BUILDING ENVELOPE.
- ALL FLEXIBLE DUCT TO BE MAXIMUM 3000MM LONG AND INSULATED.
- ALL SUPPLY AIR DUCTWORK INSIDE CEILING SPACE SHALL BE THERMALLY INSULATED.
- ALL REFRIGERANT LINES SHALL BE THERMALLY INSULATED.
- ALL CONDENSATE DRAIN SHALL BE THERMALLY INSULATED.
- 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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PROJECT TITLE
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ACCESSIBILITY UPGRADES

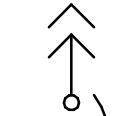

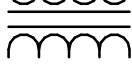
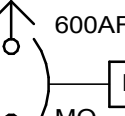
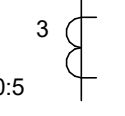


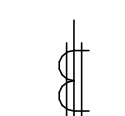


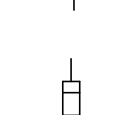
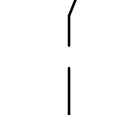
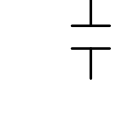
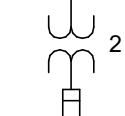
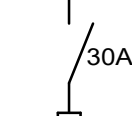

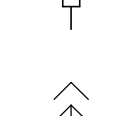
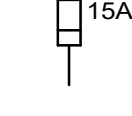

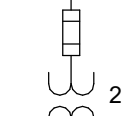
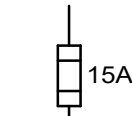
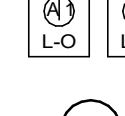
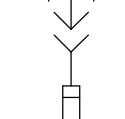
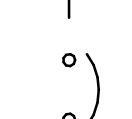
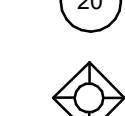
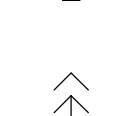
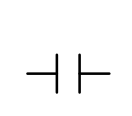
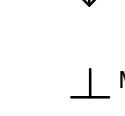
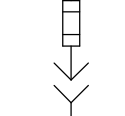
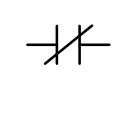
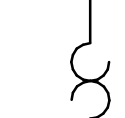
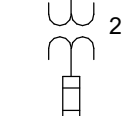
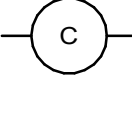
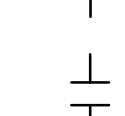
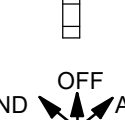
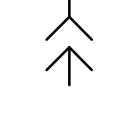
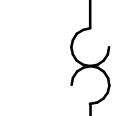
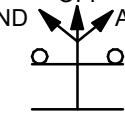
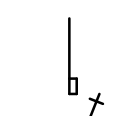
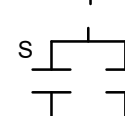
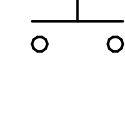
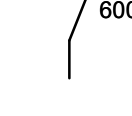
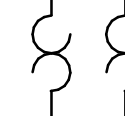
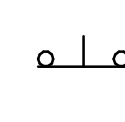
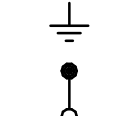

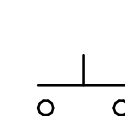
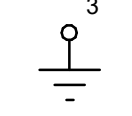
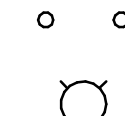
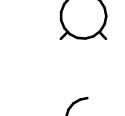
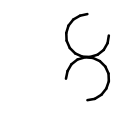
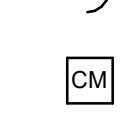
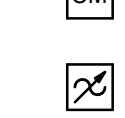
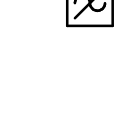






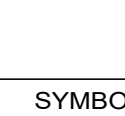
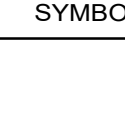















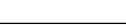
PROJECT ADDRESS

PROJECT NO: 9119- 19- 0162 / Arcadis 30279056	
DRAWN BY: K.DURUKAN	CHECKED BY: B.LIAO
PROJECT MGR: N. FRISCIC	APPROVED BY: S. LIU

SHEET TITLE
MECHANICAL LEGEND
SHEET 2 OF 2

SHEET NUMBER G05-GAL-G3002	ISSUE D
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CONSULTANTS				
SEAL				
PRIME CONSULTANT				
<div></div> <div>100 - 175 Galaxy Blvd, Toronto, ON M9W 0C9, Canada tel 416 679 1930 www.arcadis.com</div>				
PROJECT TITLE				
CITY OF TORONTO ACCESSIBILITY UPGRADES				
PROJECT ADDRESS				
PROJECT NO: 9119- 19- 0162 / Arcadis 30279056				
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		D		

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		ABBREVIATIONS		ABBREVIATIONS		
	SINGLE LINE		DRAWOUT LOW VOLTAGE CIRCUIT BREAKER		METERING AND PROTECTION DEVICES	AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTRE		
	POWER TRANSFORMER		LOW VOLTAGE DISCONNECT SWITCH (NUMBER DENOTES AMPERE RATING)		CONTROL TRANSFORMER	BIX	BIX TYPE PUNCH DOWN IDC TERMINATION	MCOV	MAXIMUM CIRCUIT OPERATING VOLTAGE		
	TRANSFORMER		LOW VOLTAGE FUSED DISCONNECT SWITCH (NUMBER DENOTES AMPERE RATING)		CURRENT TRANSFORMER, NUMBERS DENOTE QUANTITY AND RATIO	BKR	CIRCUIT BREAKER	MECH	MECHANICAL		
	LOW VOLTAGE DISCONNECT SWITCH (NUMBER DENOTES AMPERE RATING)		FUSE (NUMBER DENOTES AMPERE RATING)		ZERO SEQUENCE CURRENT TRANSFORMER	BLDG	BUILDING	mm	MILLIMETER		
	LOW VOLTAGE FUSED DISCONNECT SWITCH (NUMBER DENOTES AMPERE RATING)		GENERATOR		FIXED FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	BLR	BOILER	mmC	TRADE SIZE CONDUIT IN MILLIMETERS		
	CIRCUIT BREAKER		POWER FACTOR CORRECTION CAPACITOR		WITHDRAWABLE FUSE AND WITHDRAWABLE POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	BOT	BOTTOM OF TRAY	MO	MANUALLY OPERATED		
	NORMALLY OPEN CONTACTS		MOTOR - NUMBER DENOTES SIZE (HP)		WITHDRAWABLE FUSE AND WITHDRAWABLE POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	BR	BRIDGE	MW	MICROWAVE		
	NORMALLY CLOSED CONTACTS		NEON LIGHT VOLTAGE INDICATOR		WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	CC	CONCENTRATOR COMPLEX	MTD	MOUNTED		
	RELAY COIL		MANUAL MOTOR STARTER		WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	CD	CANDELA	NC	NORMALLY CLOSED		
	DRAWOUT OR PLUG-IN CONNECTION		MAGNETIC MOTOR STARTER		WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	CP	CONTROL PANEL	NGR	NEUTRAL GROUNDING RESISTOR		
	MEDIUM VOLTAGE LOAD INTERRUPTER SWITCH - NUMBER DENOTES SWITCH RATING		TWO-SPEED MAGNETIC MOTOR STARTER		WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	CTL	CONTROL	NIC	NOT IN CONTRACT		
	GROUND CONNECTION		SURGE SUPPRESSOR		WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	CW	COMPLETE WITH	NO	NORMALLY OPEN		
	LIGHTNING ARRESTER OR SURGE DIVERTER NUMBER DENOTES QUANTITY		DELTA/WYE TRANSFORMER CONNECTION WITH WYE POINT RESISTANCE GROUNDED		WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	CAT6	CATEGORY 6 CABLE	O/H	OVER HEAD		
	STRESS CONE		DELTA/WYE TRANSFORMER CONNECTION WITH WYE POINT GROUNDED		WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	COMMS	COMMUNICATIONS	OC	ON CENTRE		
	DELTA/WYE TRANSFORMER CONNECTION WITH WYE POINT GROUNDED		WYE/WYE TRANSFORMER CONNECTION		WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	CP	CONTROL PANEL	OESC	ONTARIO ELECTRICAL SAFETY CODE		
	DELTA/DELTA TRANSFORMER CONNECTION		AUTOMATIC TRANSFER SWITCH		WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	DISC	DISCONNECT	OVP	OVER VOLTAGE PROTECTION		
	AUTOMATIC TRANSFER SWITCH				WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	DIV	DIVISION	PLATF	PLATFORM		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	DSP	GROUND FAULT PROTECTION SYSTEM	PPT	PATCH PANEL TERMINATION		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	DSP-CA	CABLE ADAPTER MODULE	R	REMOVE		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	DSP-CAS	CABLE ADAPTER MODULE	RCT	RECEPTACLE		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	DSP-DFM	DSP FEEDER MODULE	RJ	U/UTP RJ45 CONNECTION		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	E	EXISTING TO REMAIN	RM	ROOM		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	EL	ELEVATION	RR	REMOVE AND RELOCATE		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	ELEV	ELEVATOR	SC	SHORT CIRCUIT		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	EMS	ENERGY MANAGEMENT SYSTEM	SLD	SINGLE LINE DIAGRAM		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	EO	ELECTRICALLY OPERATED BREAKER	SP	SPARE		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	ETSP	ELECTRONIC TRAP SEAL PRIMER	SRP	SUPPRESSION RELEASE PERIPHERAL		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	EX	EXISTING	ST	SHUNT TRIP		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	FB#1	FEEDER CIRCUIT BREAKER (#1 DENOTES NUMBER)	STN	STATION		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	FEPO	FIREMAN EMERGENCY POWER OFF	STP	SHIELDED TWISTED PAIR CABLE		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	GFR	GROUND FAULT RELAY	STS	STATIC TRANSFER SWITCH		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	GND	GROUND	SW	SWITCH		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	HT	HEAT TRACING	SWBD	SWITCH BOARD		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	HTR	HEATER	SWGR	SWITCH GEAR		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	HOA	HAND-OFF-AUTO	TB	TIE CIRCUIT BREAKER		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	HVAC	HEATING - VENTILATION AND AIR CONDITIONING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	IAM	INDIVIDUAL ADDRESSABLE MODULE	TYP	TYPICAL		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	LAV	LAVATORY	U/G	UNDER GROUND		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	LCD	LIQUID CRYSTAL DISPLAY	UON	UNLESS OTHERWISE NOTED		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	LED	LIGHT EMITTING DIODE	VFD	VARIABLE FREQUENCY DRIVE		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	LSIA	LONG TIME TRIP; SHORT TIME TRIP; INSTANTANEOUS TRIP; GROUND FAULT ALARM	WP	WEATHER PROOF		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	LSIG	LONG TIME TRIP; SHORT TIME TRIP; INSTANTANEOUS TRIP; GROUND FAULT TRIP	XP	EXPLOSION PROOF		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	LVL	LEVEL	*	REFER TO A-002 FOR ABBREVIATIONS NOT INCLUDED IN THIS LIST		
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	LVR	LAYOVER				
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	MB	MAIN CIRCUIT BREAKER				
					WITHDRAWABLE FUSE AND FIXED POTENTIAL TRANSFORMER (PT) NUMBER DENOTES QUANTITY	MBPS	UPS - MAINTENANCE BY-PASS SWITCH - EXTERNAL				
SYMBOLS AND LEGEND AS APPLICABLE			SYMBOLS AND LEGEND AS APPLICABLE			SYMBOLS AND LEGEND AS APPLICABLE			SYMBOLS AND LEGEND AS APPLICABLE		


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
MOUNTING HEIGHTS AS APPLICABLE		

GENERAL NOTES:

1. PROVIDE 1-#6 GND WIRE FOR ALL UNDERGROUND EMPTY 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 #8XL-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 UPON FIRE ALARM. SHOULD DETECTOR AT DESIGNATED LEVEL ELEVATOR LOBBY INDICATE FIRE, ELEVATOR TO BE DIRECTED TO ALTERNATE LEVEL. REFER TO ELEVATOR AUTOMATIC FIRE RECAL 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.

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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	ISSUED FOR TENDER	2025-04-11

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PROJECT TITLE

CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

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

APPROVED BY:
P. WILLIAMS

SHEET TITLE

ELECTRICAL GENERAL
NOTES

SHEET NUMBER

G05-G4002

ISSUE

D

CITY OF TORONTO

ACCESSIBILITY UPGRADES

TYPICAL DETAILS BOOKLET

9119- 19- 0162 / Arcadis 30279056

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SHEET #	SHEET TITLE
D1000	COVER PAGE & TYPICAL DETAIL LIST
D1001	ACCESSIBILITY DESIGN STANDARDS AND DOOR CLEARANCES
D1002	DOOR ENLARGEMENT
D1201	ACCESSIBLE WASHROOM, SHOWER & ACCESSORIES DETAILS
D1202	UNIVERSAL WASHROOM & SHOWER PLANS
D1203	UNIVERSAL WASHROOM ELEVATIONS
D1204	MULTI-STALL WASHROOM PLANS
D1205	UW - EMERGENCY CALL SYSTEM
D1301	KITCHEN MILLWORK PLANS & ELEVATIONS
D1302	KITCHEN MILLWORK DETAIL SECTIONS
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D1401	STAIR DETAILS - 01
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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

ELECTRICAL TYPICAL DETAILS INDEX	
SHEET #	SHEET TITLE
D4001	ELECTRICAL DETAILS 1

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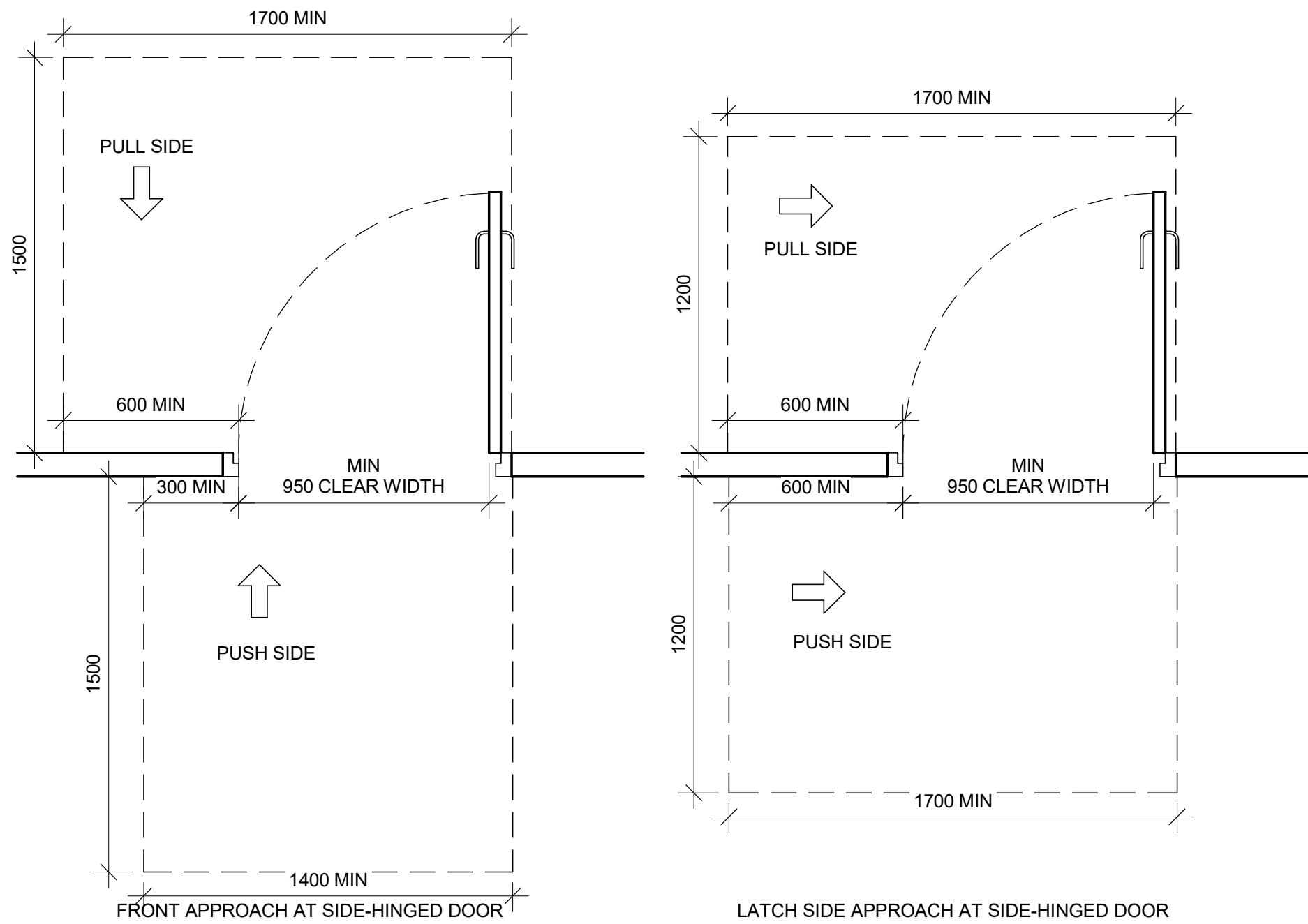
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D1000	A

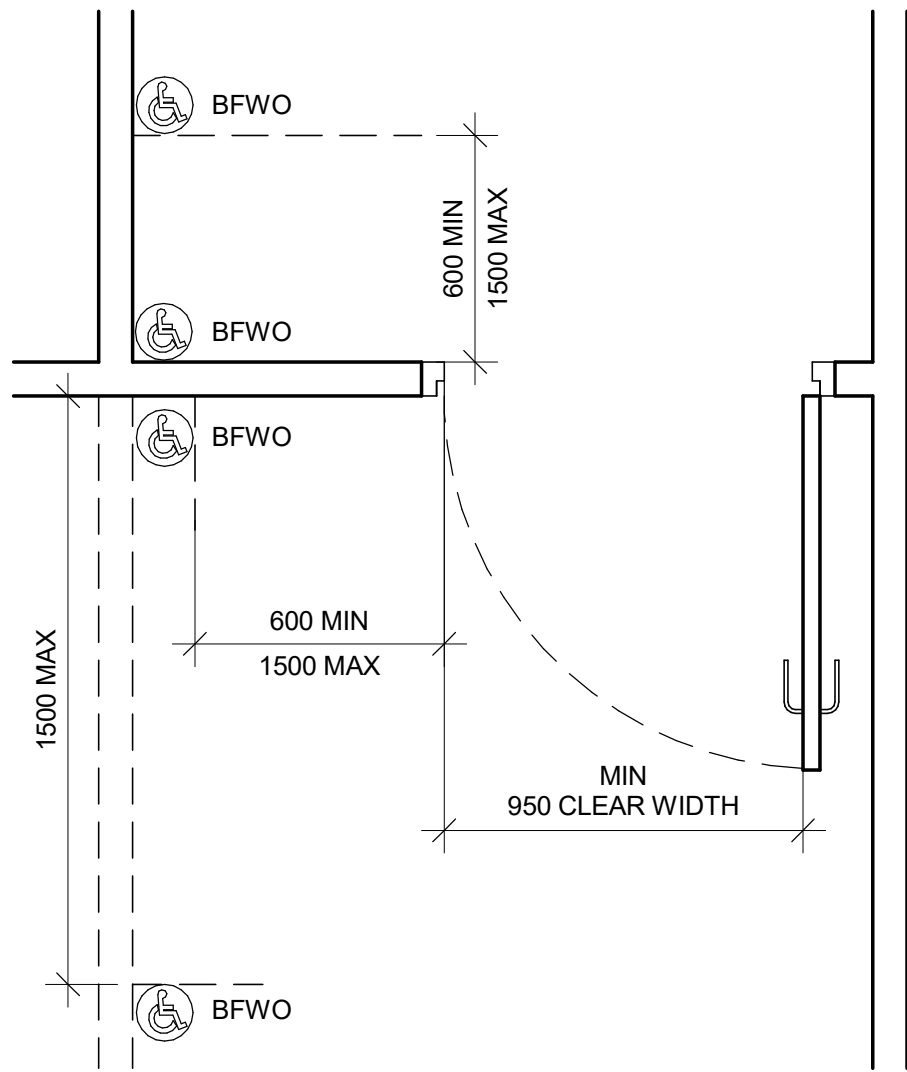
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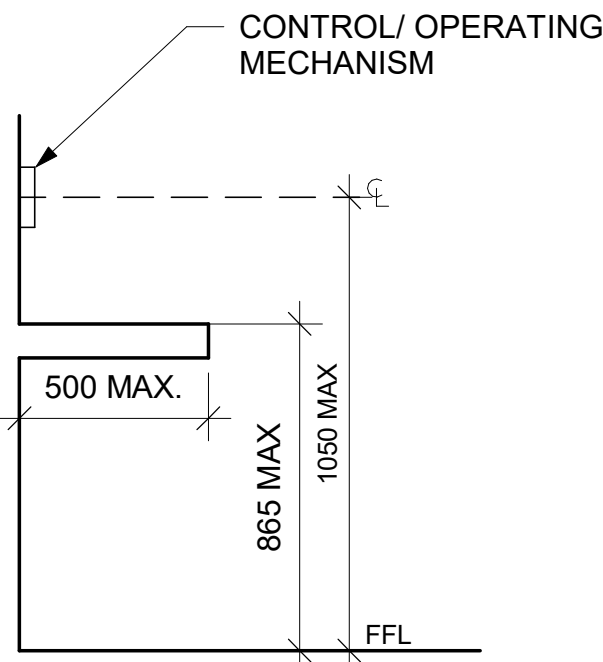
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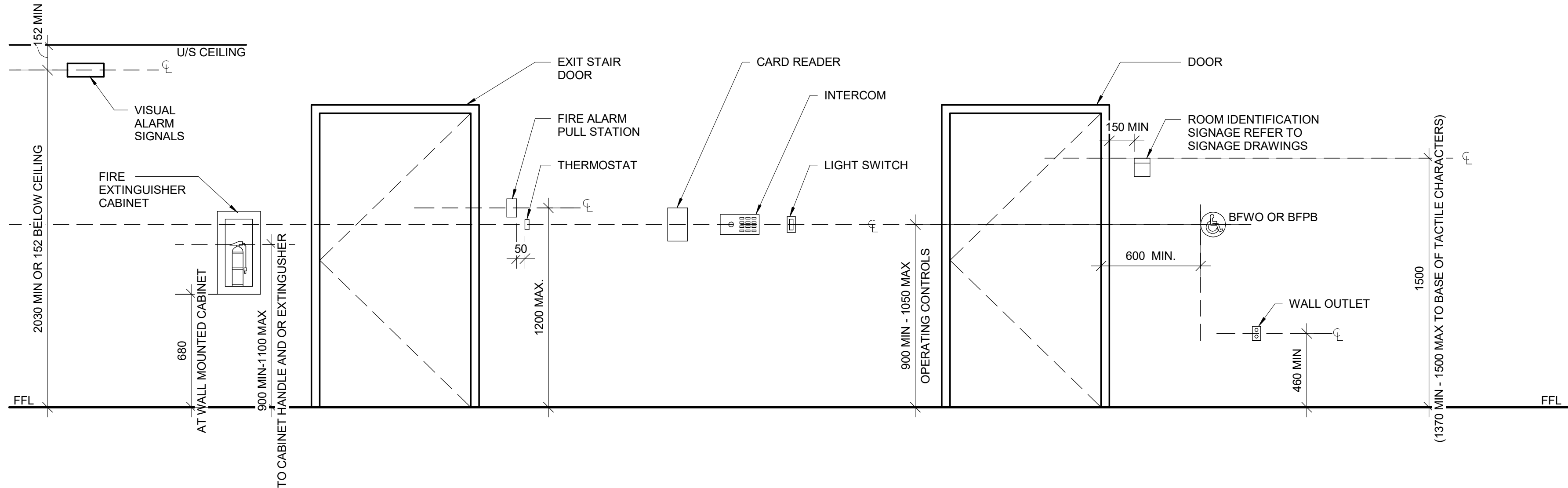
2 DOOR APPROACH CLEARANCES
D1001 Scale: 1 : 20



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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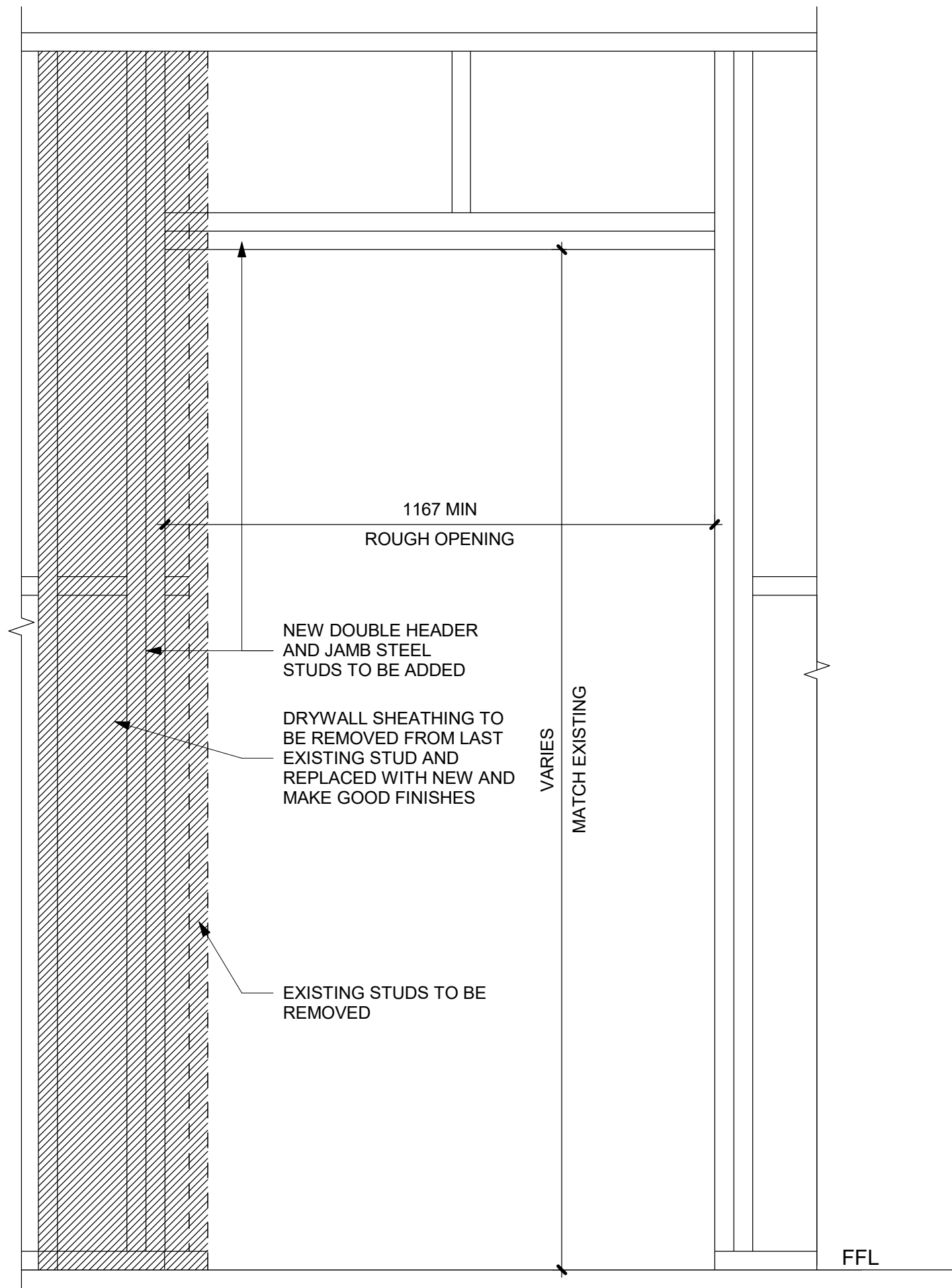
PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

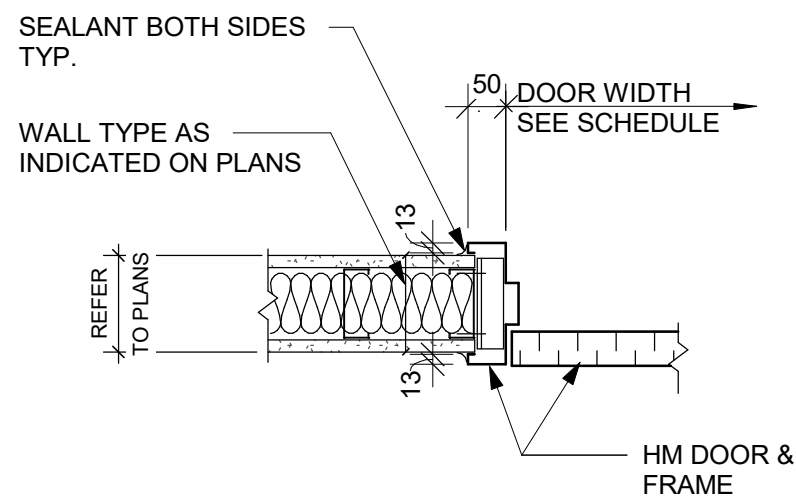
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APPROVED BY:
E. FENUTA

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

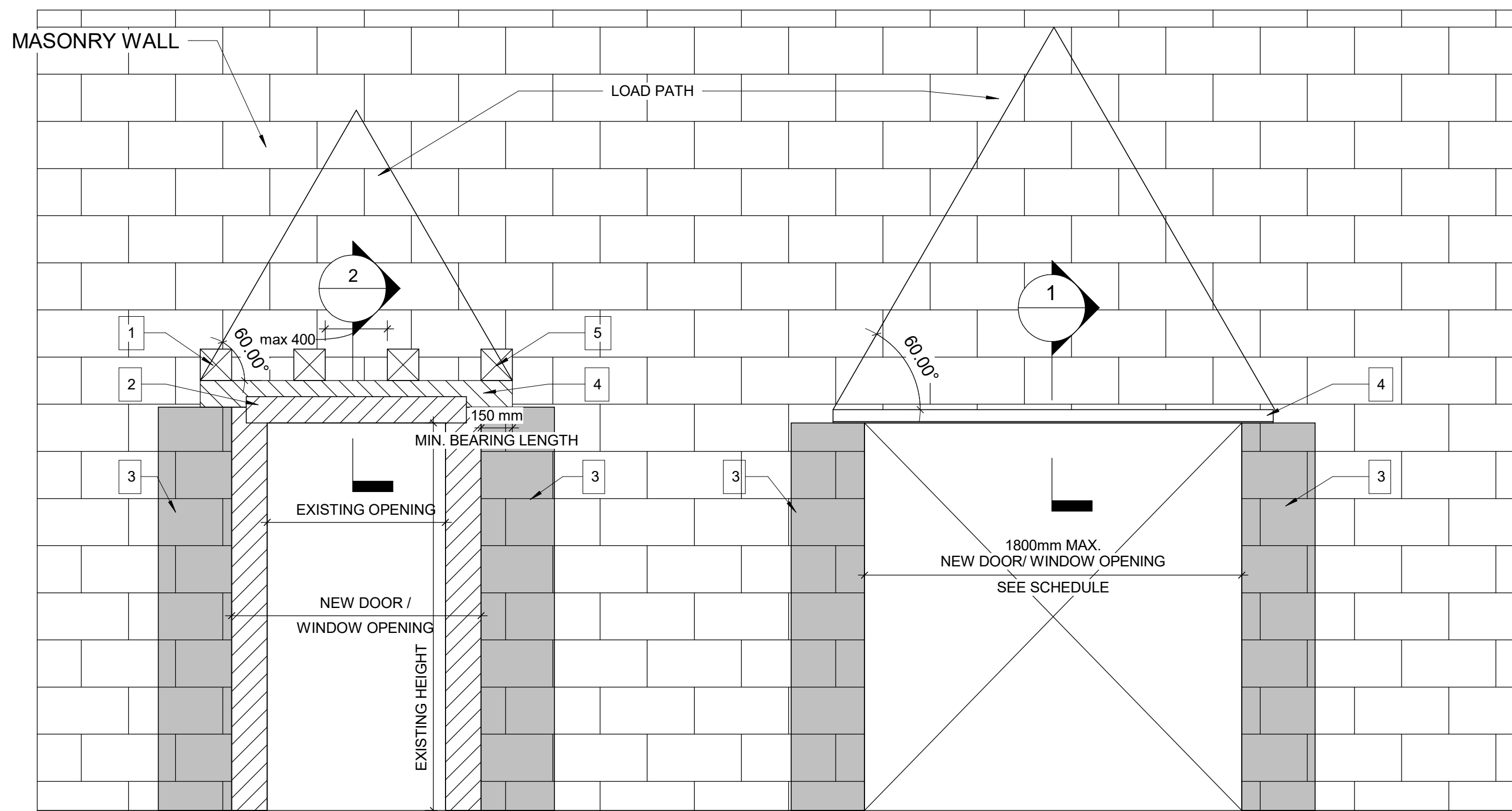
SHEET NUMBER
D1001
ISSUE
A



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



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



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

3 WIDENING WALL OPENING
D1002 Scale: 1 : 20

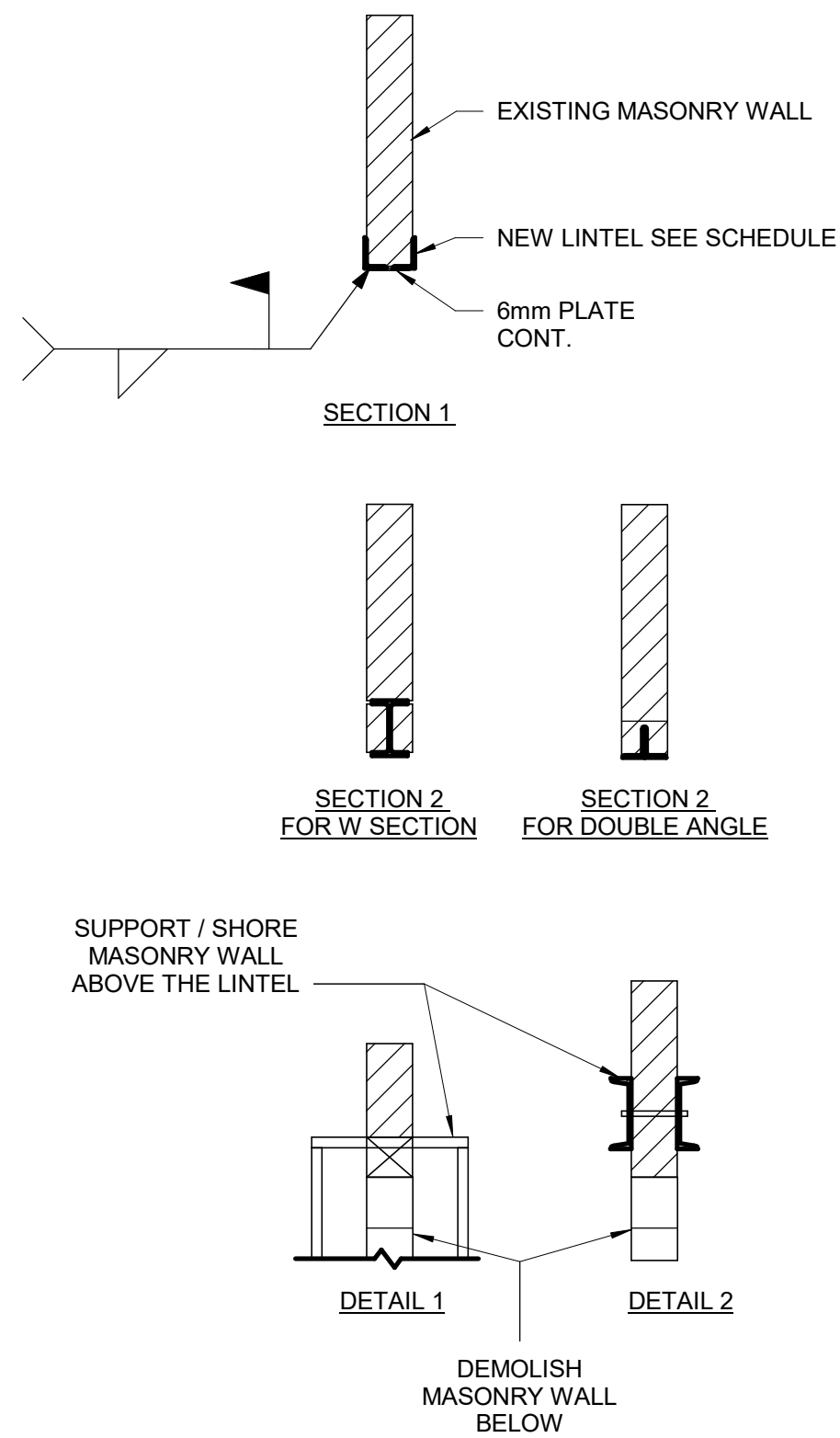
NEW DOOR/WINDOW OPENING
INTO EXISTING MASONRY WALL TYP.

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		



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

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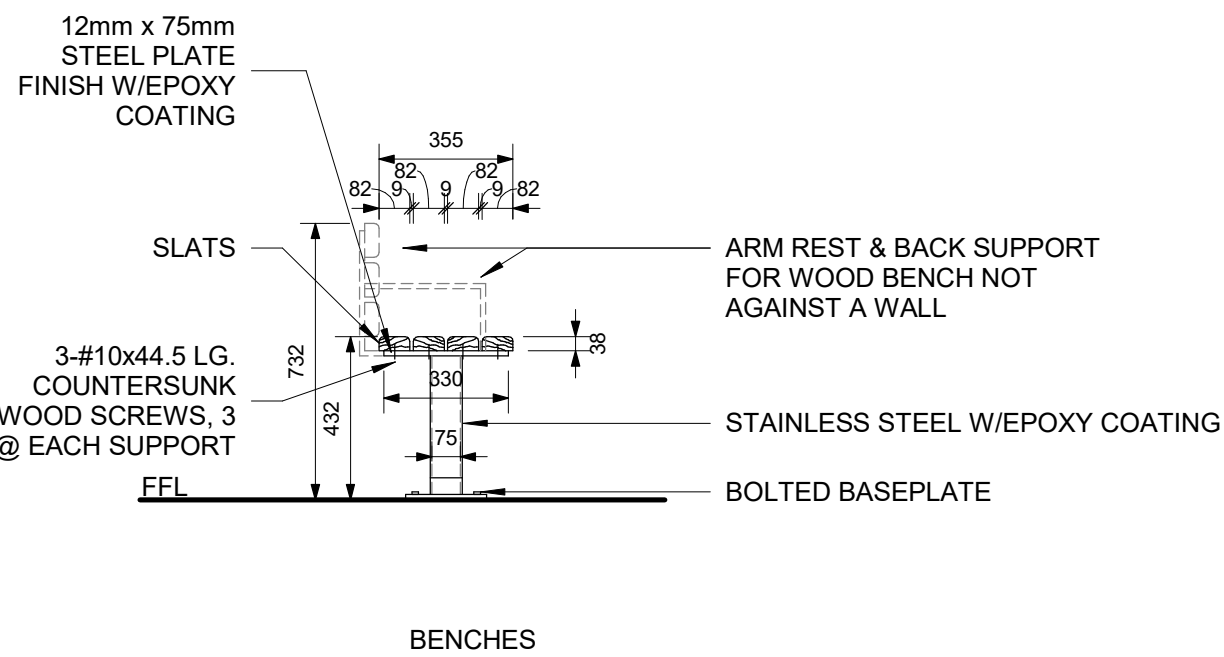
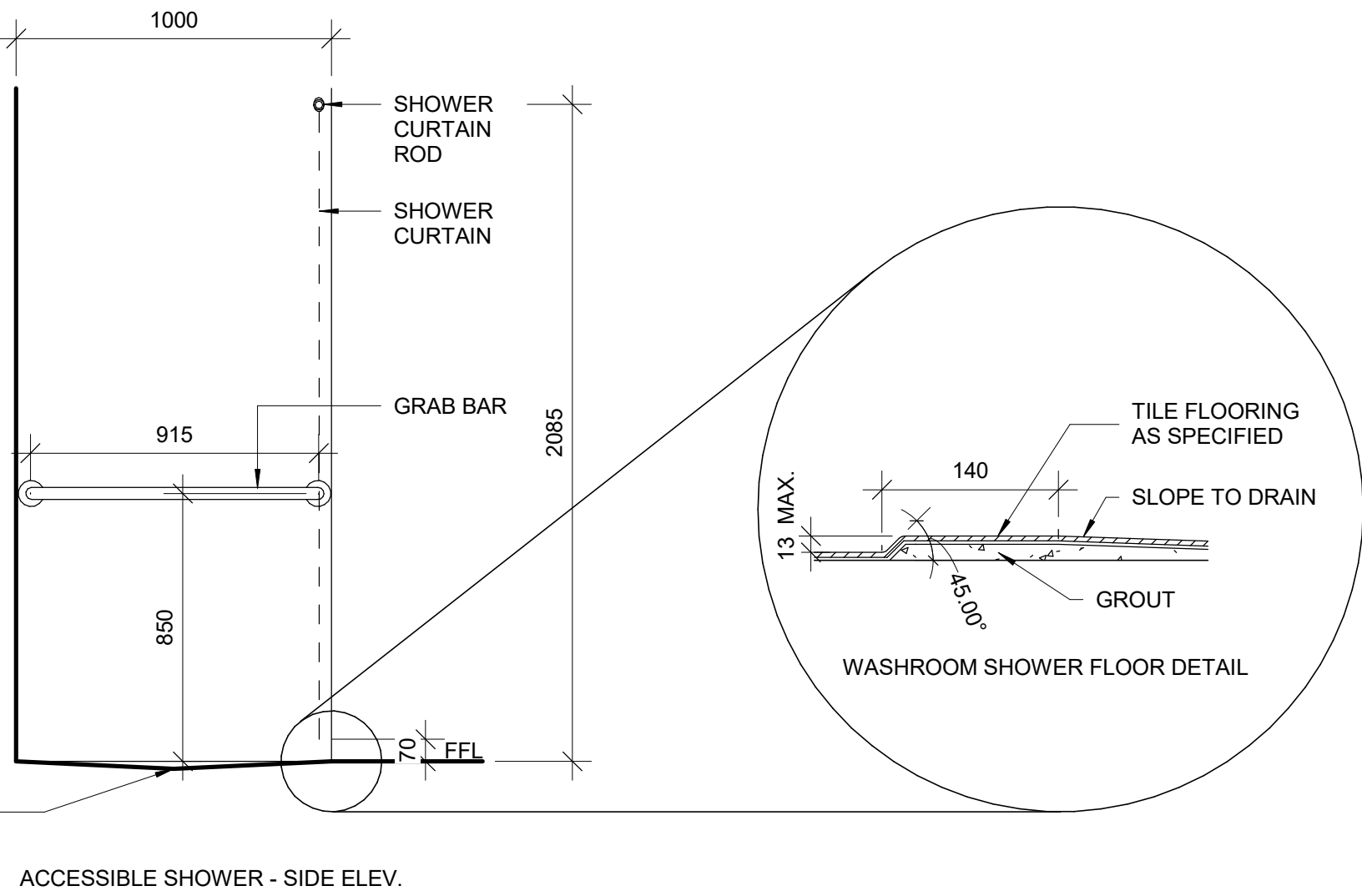
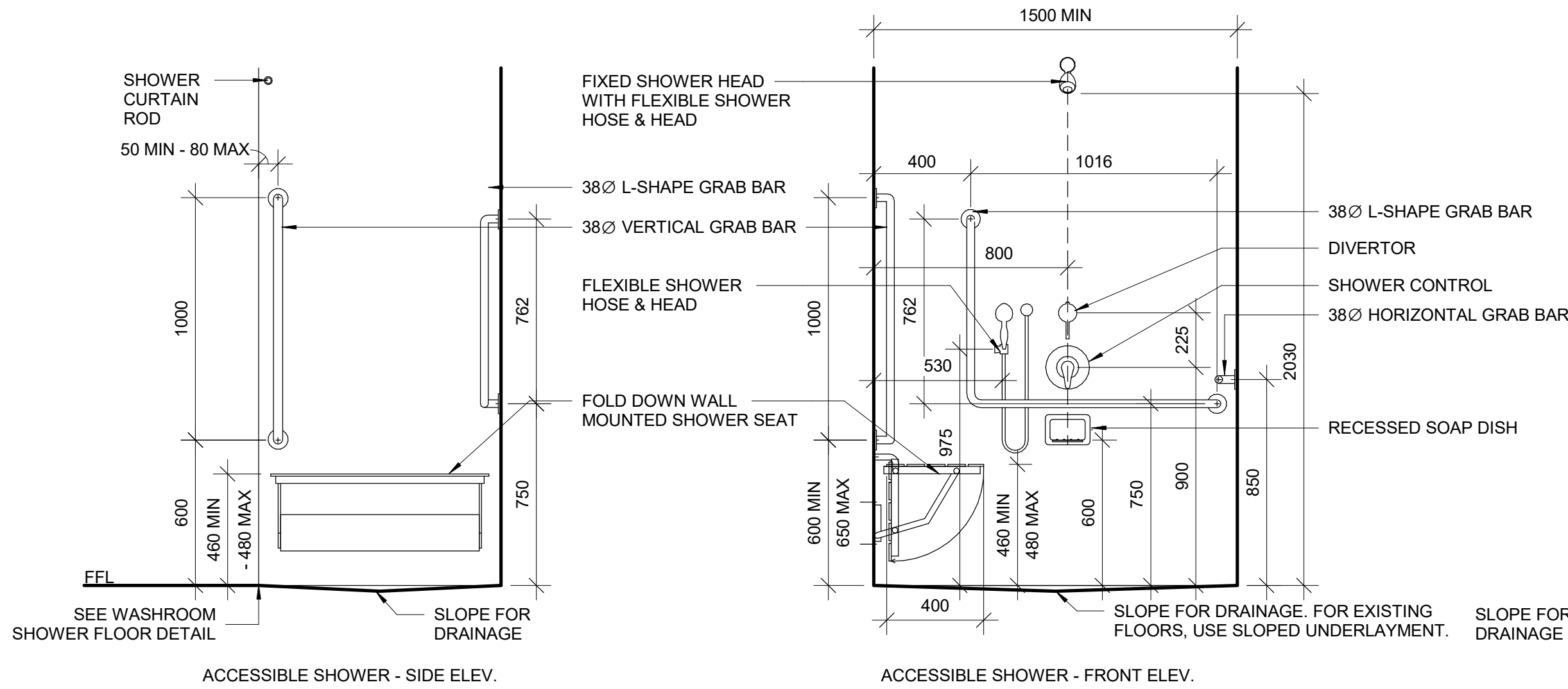
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SHEET TITLE
DRYWALL CUT OUT

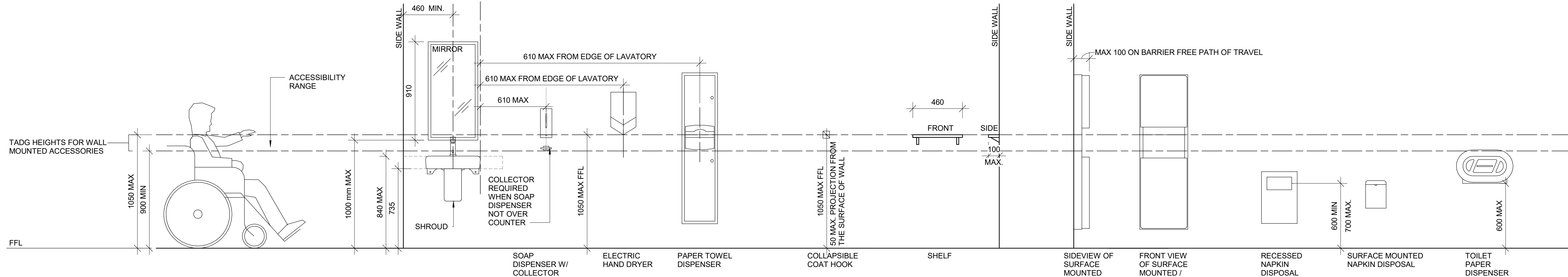
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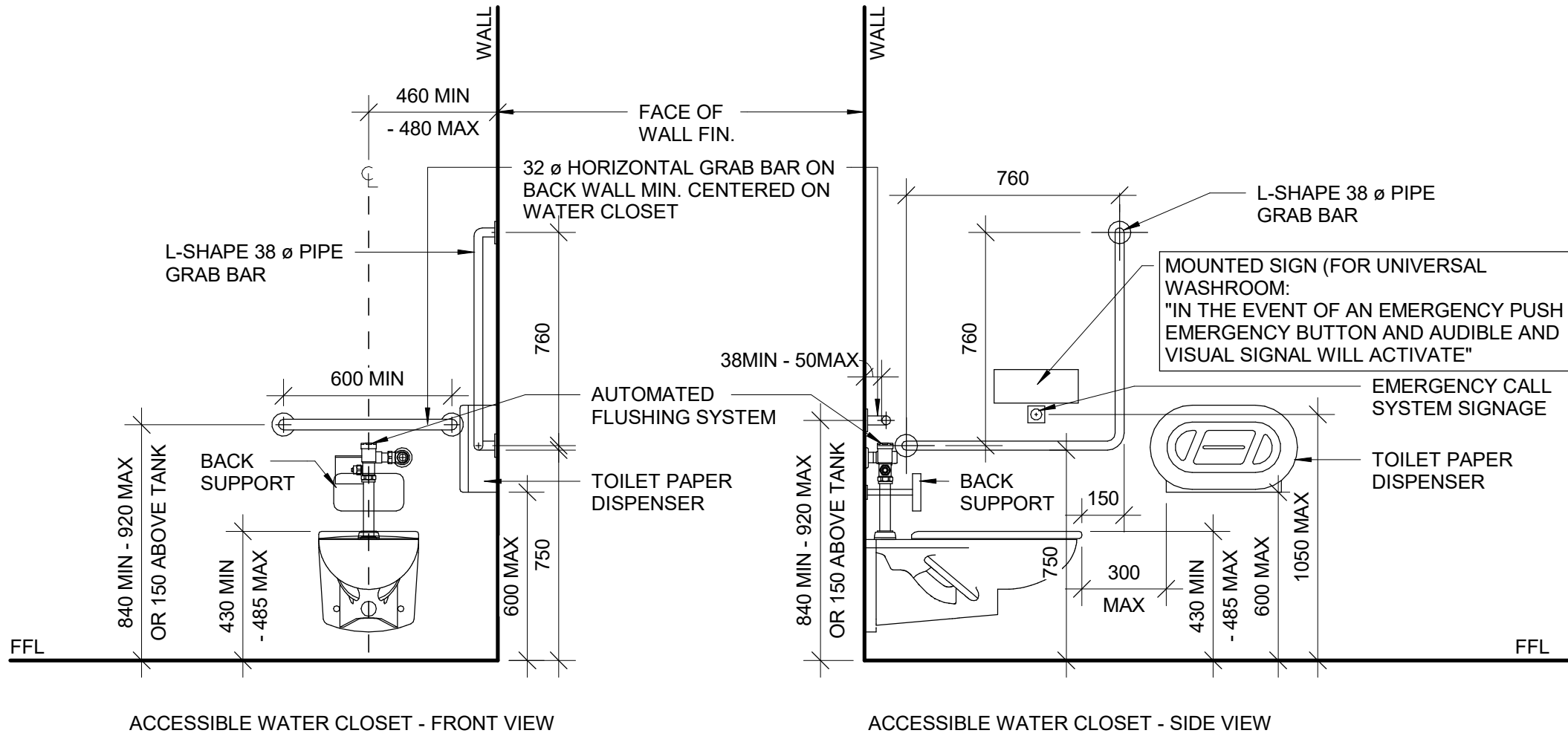


1 ACCESSIBLE SHOWER ACCESSORIES
D1201 Scale: 1 : 20

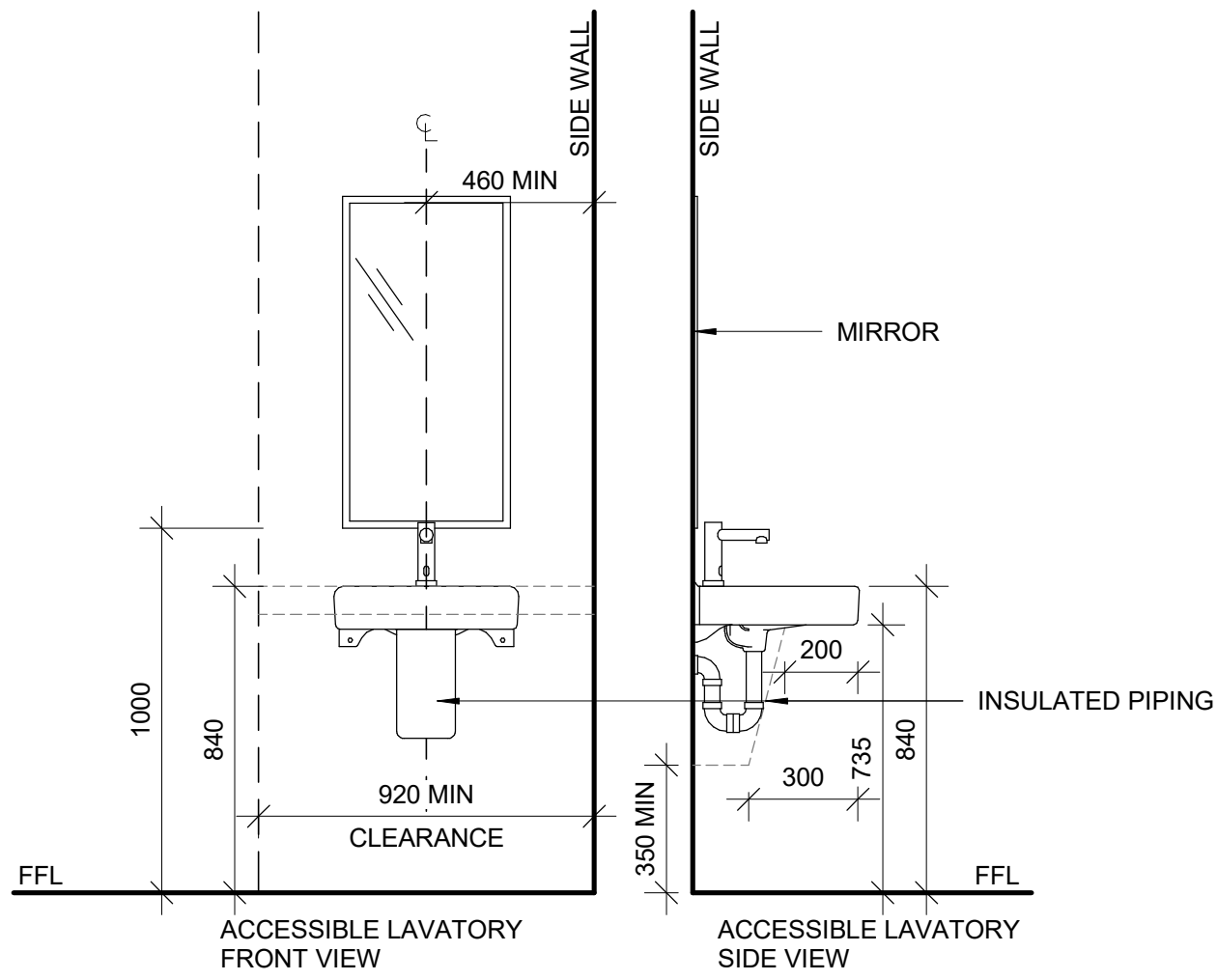
6 WASHROOM/CHANGEROOM BENCH
D1201 Scale: 1 : 20



2 ACCESSIBLE WASHROOM - ACCESSORIES
D1201 Scale: 1 : 20

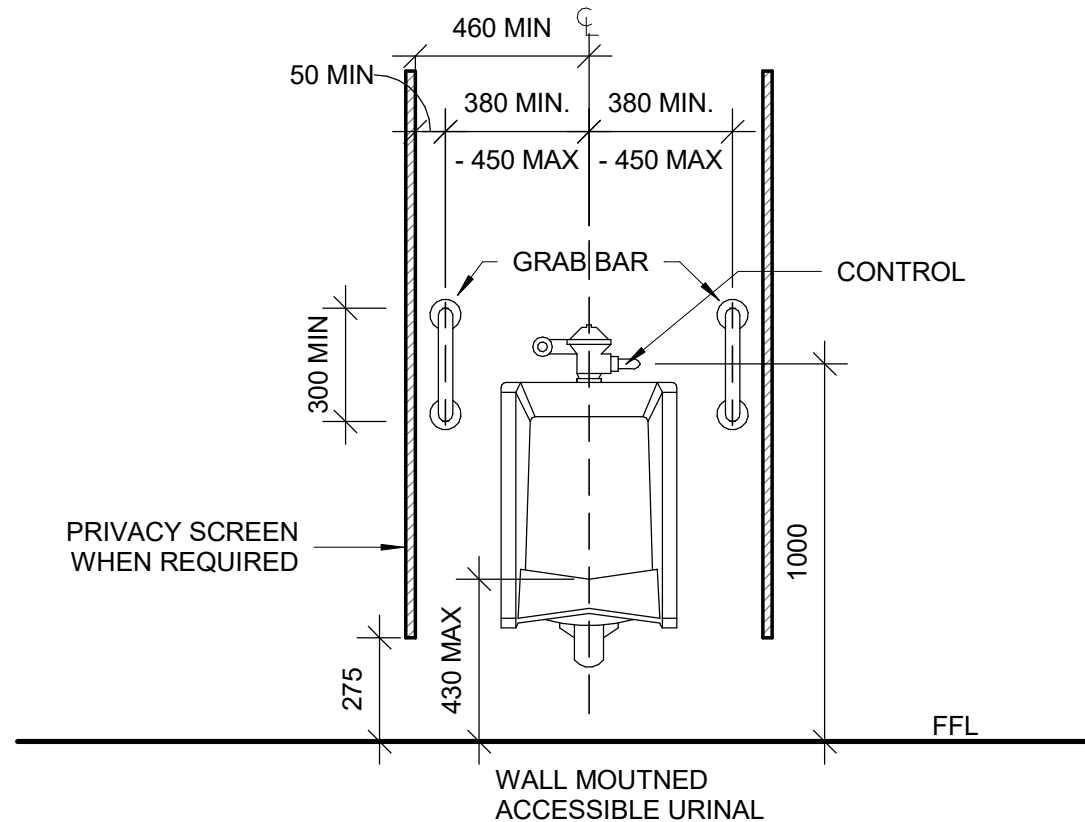


3 ACCESSIBLE WASHROOM - WATER CLOSET
D1201 Scale: 1 : 20



4 ACCESSIBLE WASHROOM - LAVATORY
D1201 Scale: 1 : 20

- NOTE:**
1. 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.
 2. 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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No.	DESCRIPTION	DATE
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PRIME CONSULTANT

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Toronto, ON M9W 0C9, Canada
tel 416 679 1930
www.arcadis.com

PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY:
A. BOYNARIAN

CHECKED BY:
K. TILAHUN

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
E. FENUITA

SHEET TITLE
**ACCESSIBLE
WASHROOM, SHOWER &
ACCESSORIES DETAILS**

SHEET NUMBER
D1201

ISSUE
A

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PROJECT TITLE

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ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY:
A. BOYNARIAN

CHECKED BY:
K. TILAHUN

PROJECT MGR:
F.BOLOURIAN

APPROVED BY:
E. FENUTA

SHEET TITLE

UNIVERSAL WASHROOM
ELEVATIONS

SHEET NUMBER

D1203

ISSUE

A

2025-04-11 10:38:53 AM

SCALE CHECK

1 in

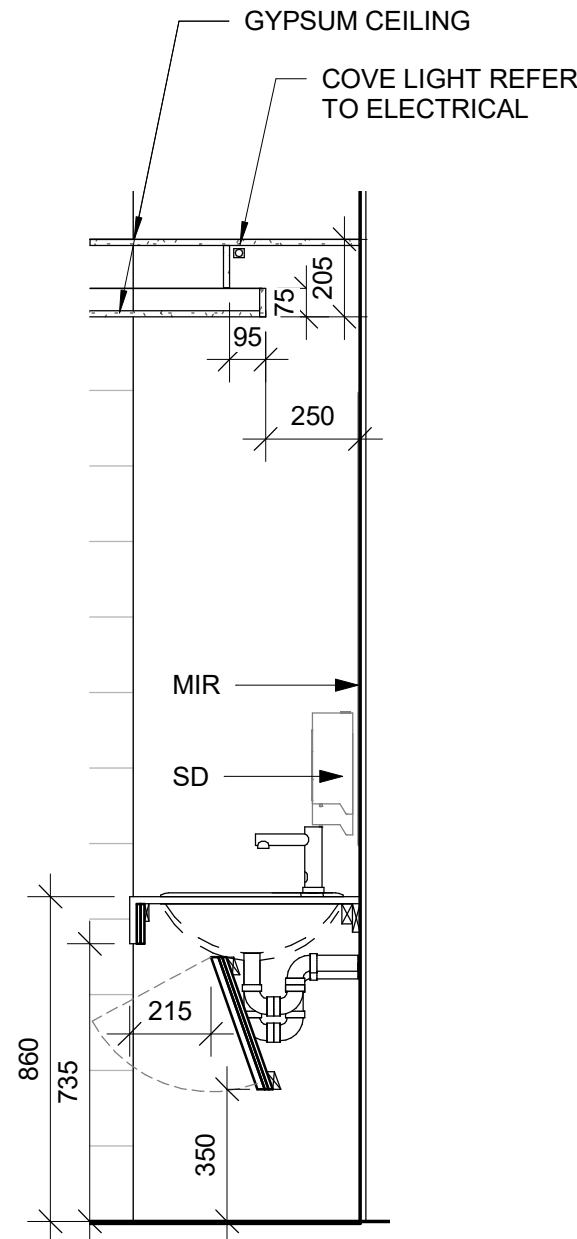
10mm

2025-04-11 10:38:53 AM

RESERVED

RESERVED

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- UNIVERSAL WASHROOM GENERAL NOTES:**
1. ALL DIMENSIONS ARE TAKEN FROM FINISH FLOOR SURFACE.
 2. MOISTURE RESISTANT GYPSUM BOARD TO BE PROVIDED IN ALL WASHROOMS AND LOCKER ROOMS.
 3. SEE STANDARD MOUNTING HEIGHT DETAILS 2/D1201, 3/D1201, 4/D1201 & 5/D1202
 4. 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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PROJECT ADDRESS

PROJECT NO: 9119- 19- 0162 / Arcadis 30279056	
DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUA

SHEET TITLE
WASHROOM VANITY
SECTION

SHEET NUMBER	ISSUE
D1204	A

SCALE CHECK
1 in 10mm

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DRAWN BY:
A. BOYNARIAN

CHECKED BY:
K. TILAHUN

PROJECT MGR:
F.BOLOURIAN

APPROVED BY:
E. FENUTA

SHEET TITLE

UNIVERSAL WASHROOM
EMERGENCY CALL
SYSTEM

SHEET NUMBER

D1205

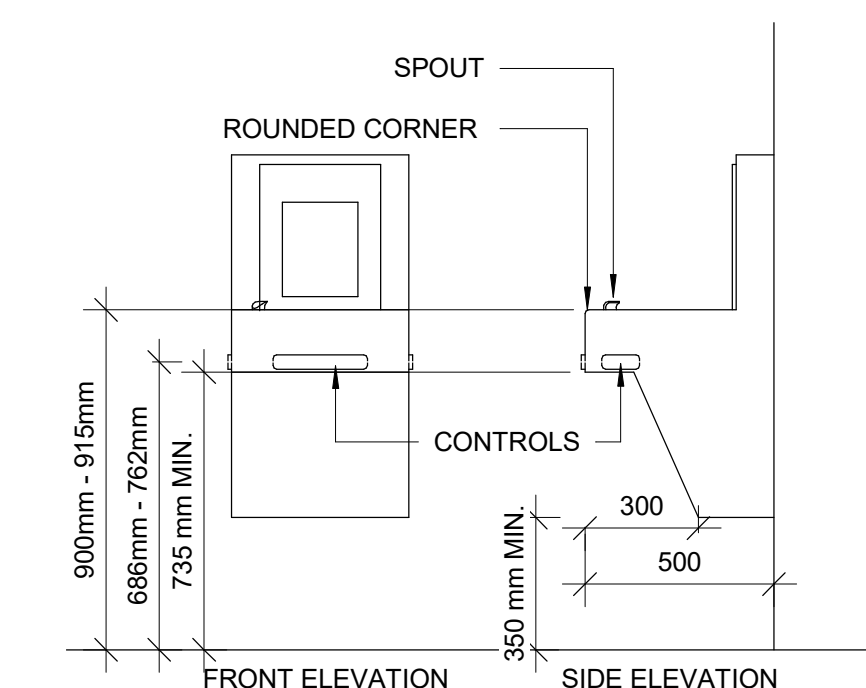
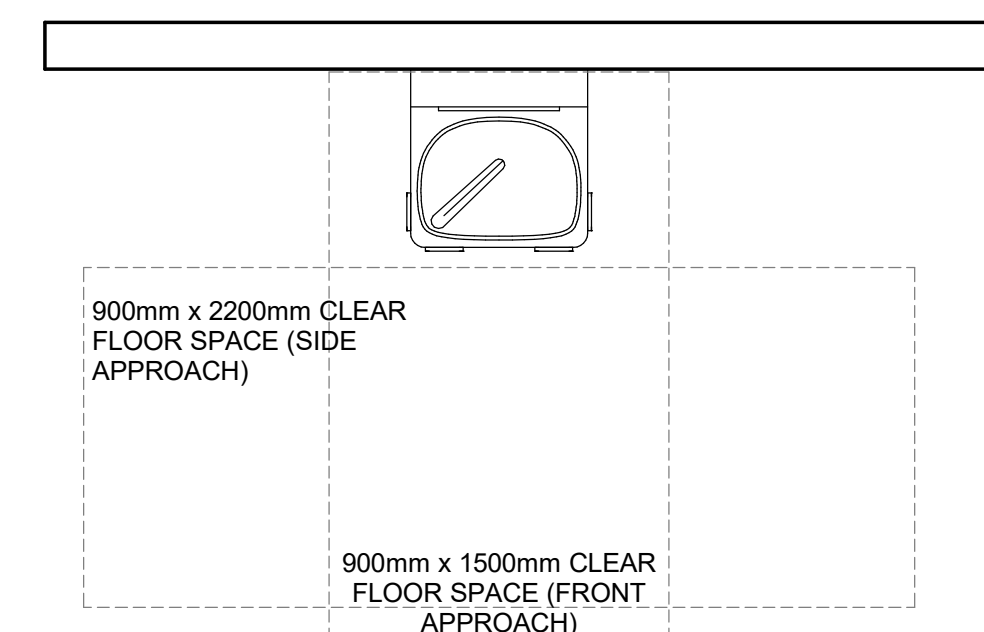
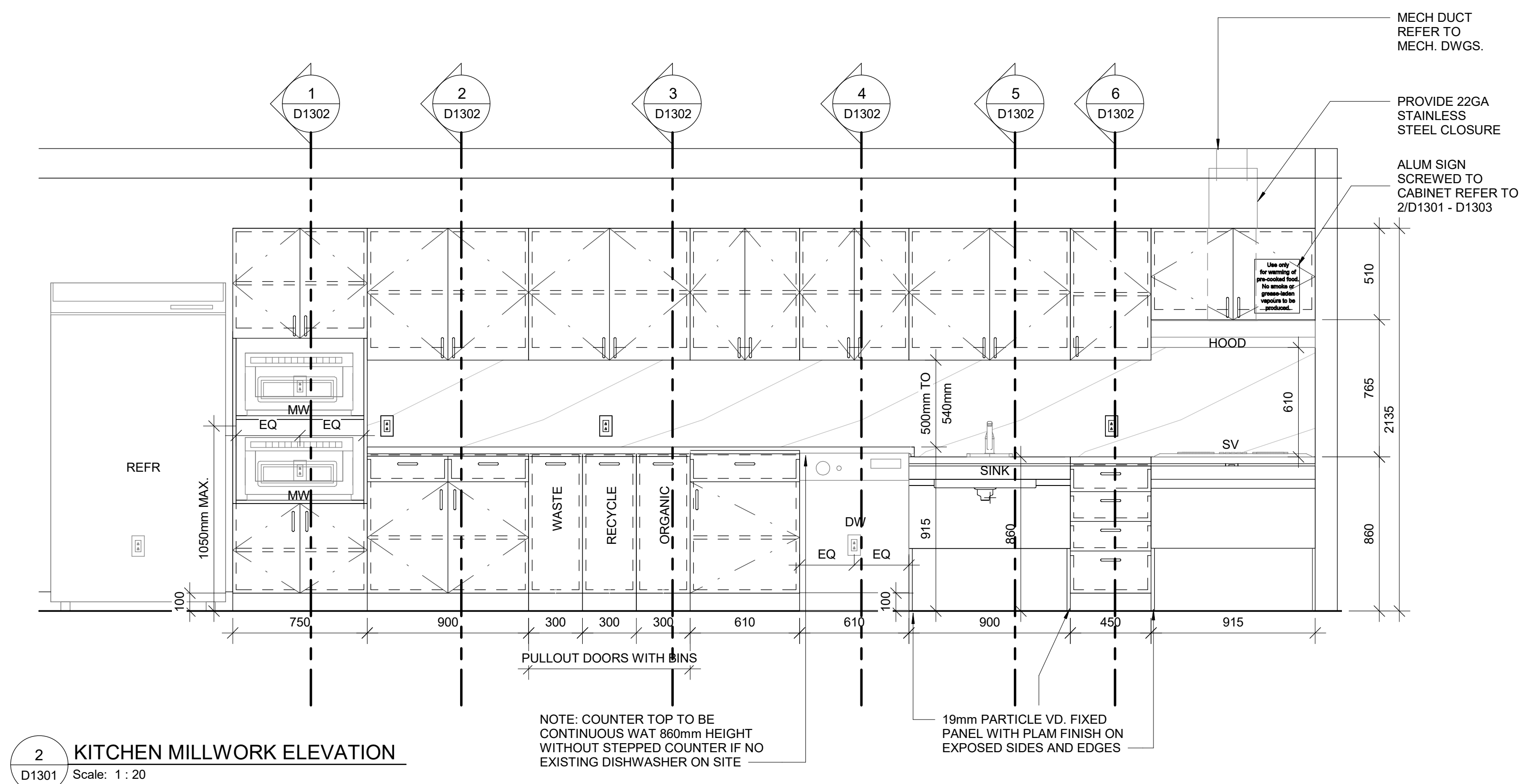
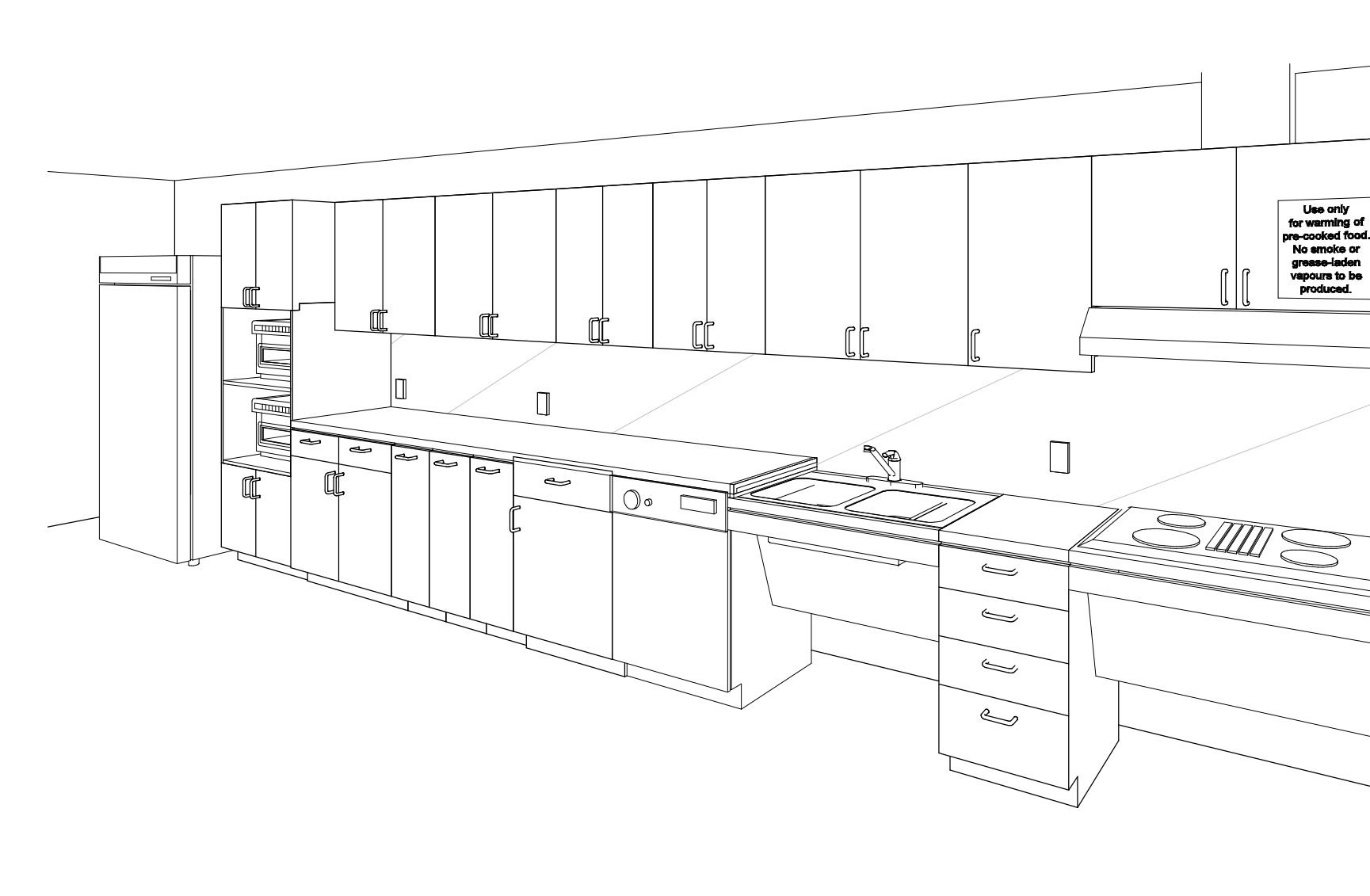
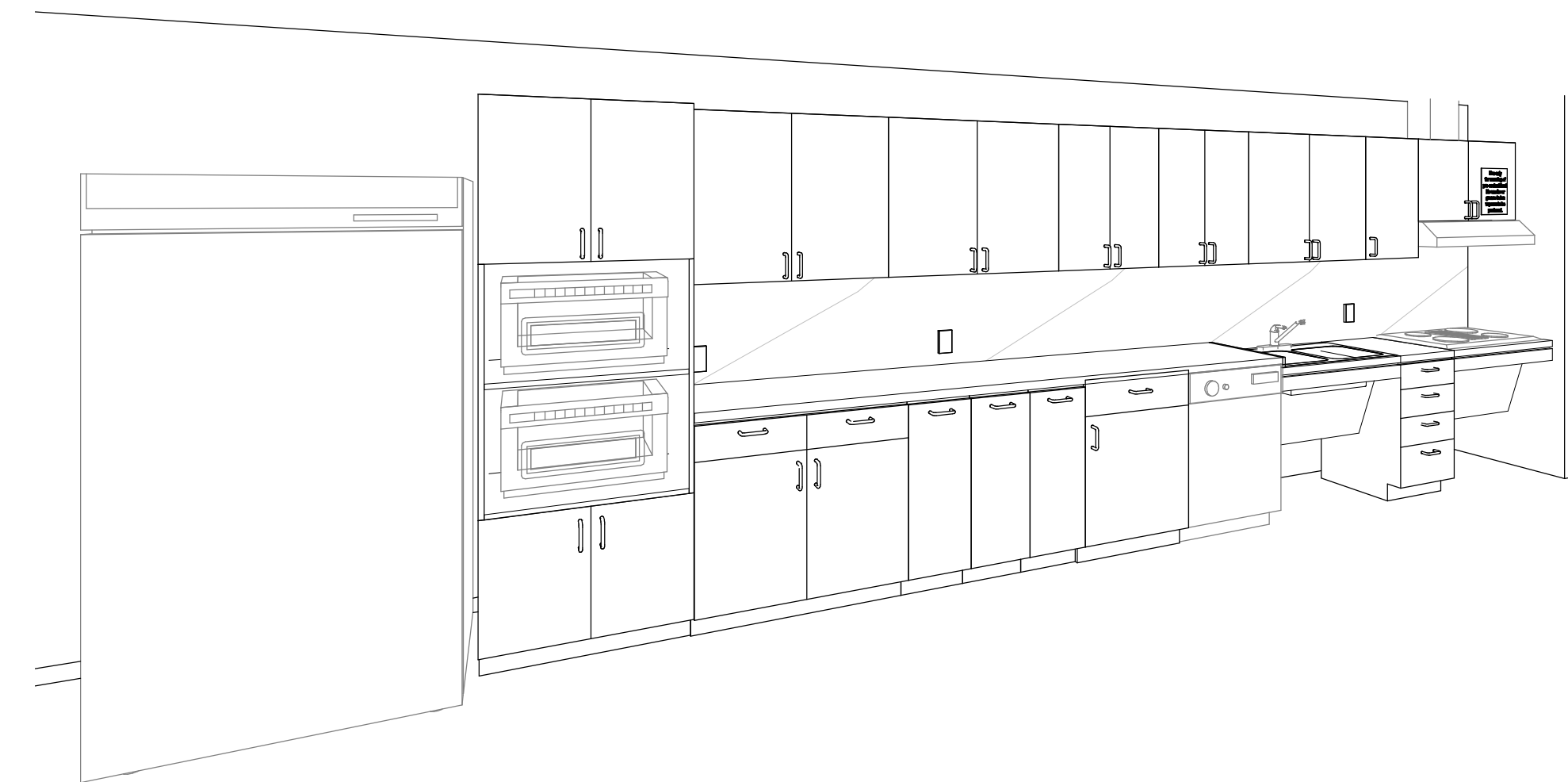
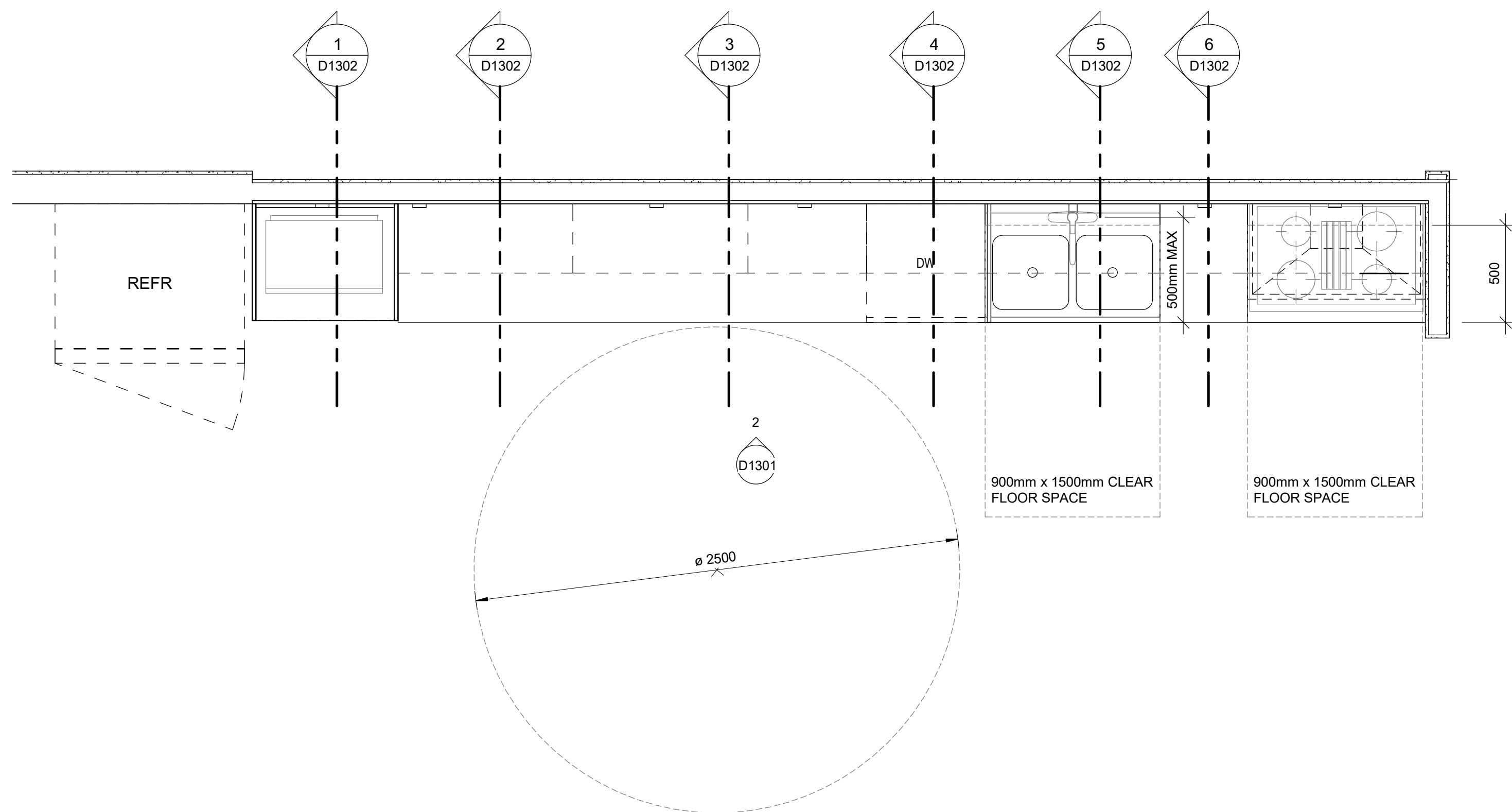
ISSUE

A

2025-04-11 10:39:53 AM

SCALE CHECK
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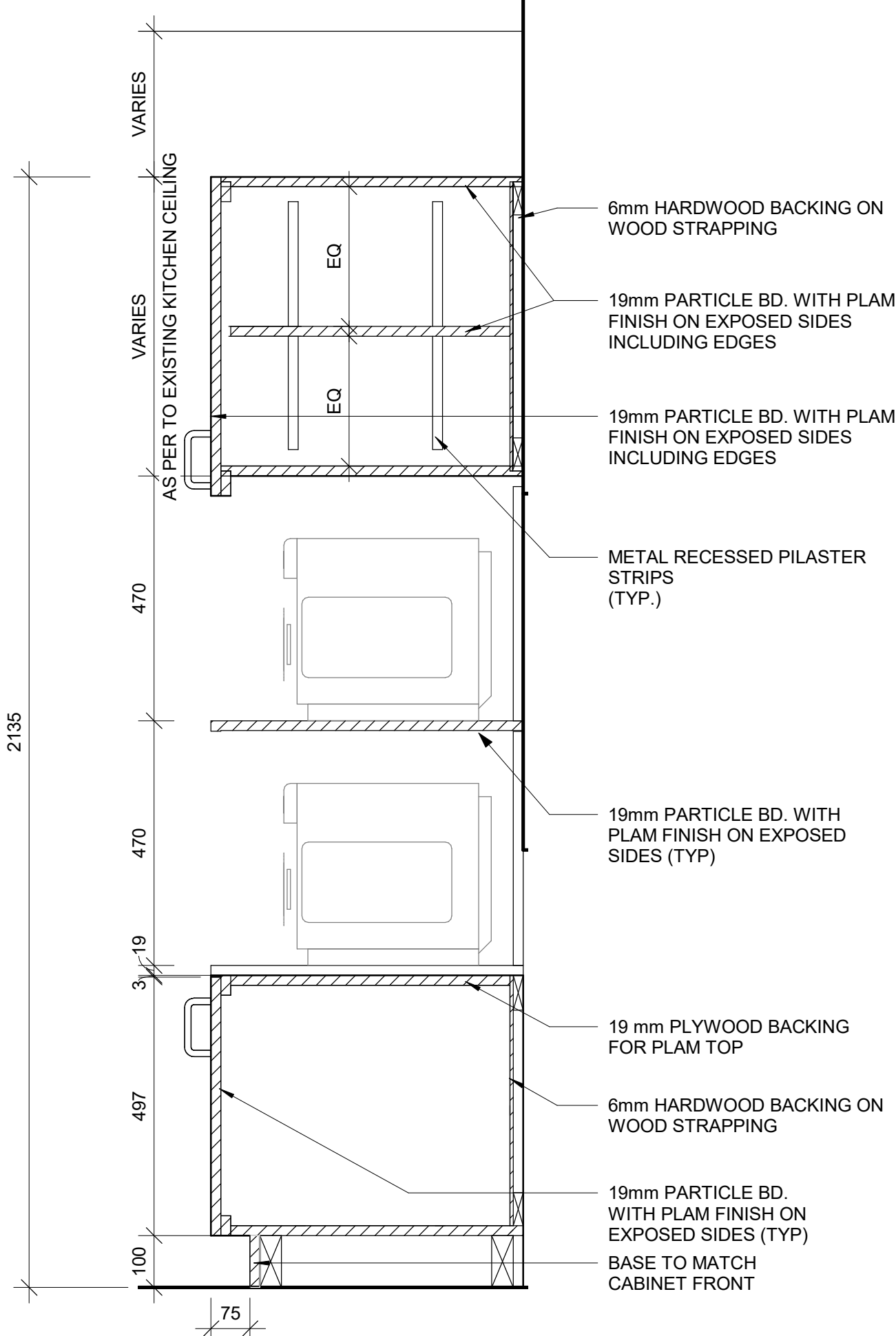
10mm



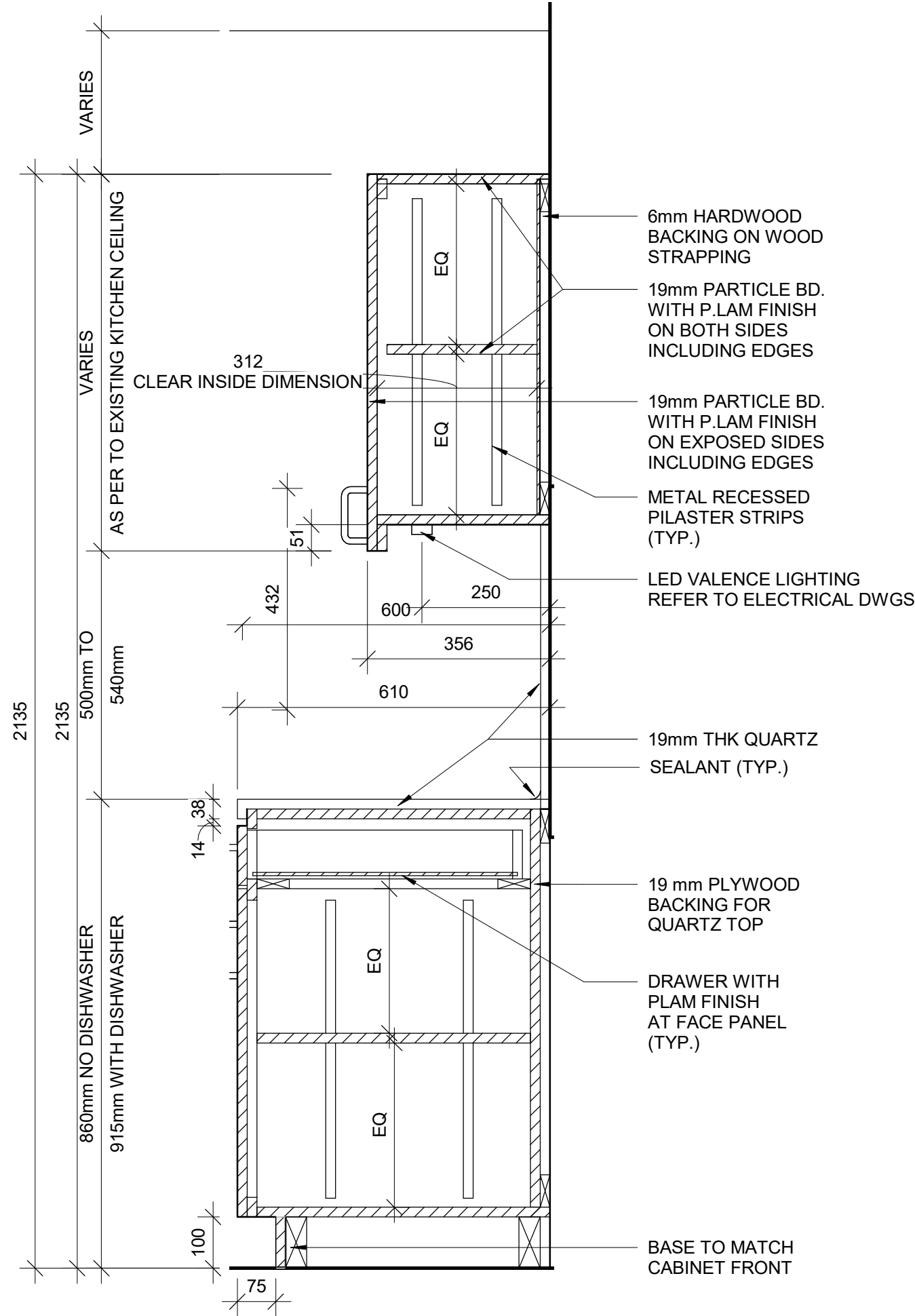
NOTE:

1. ALL APPLIANCES ARE OUT OF SCOPE AND ARE FOR INFORMATION PURPOSES ONLY
2. CONTRACTOR TO CONFIRM APPLIANCES SIZES PRIOR TO FABRICATION OF MILLWORK

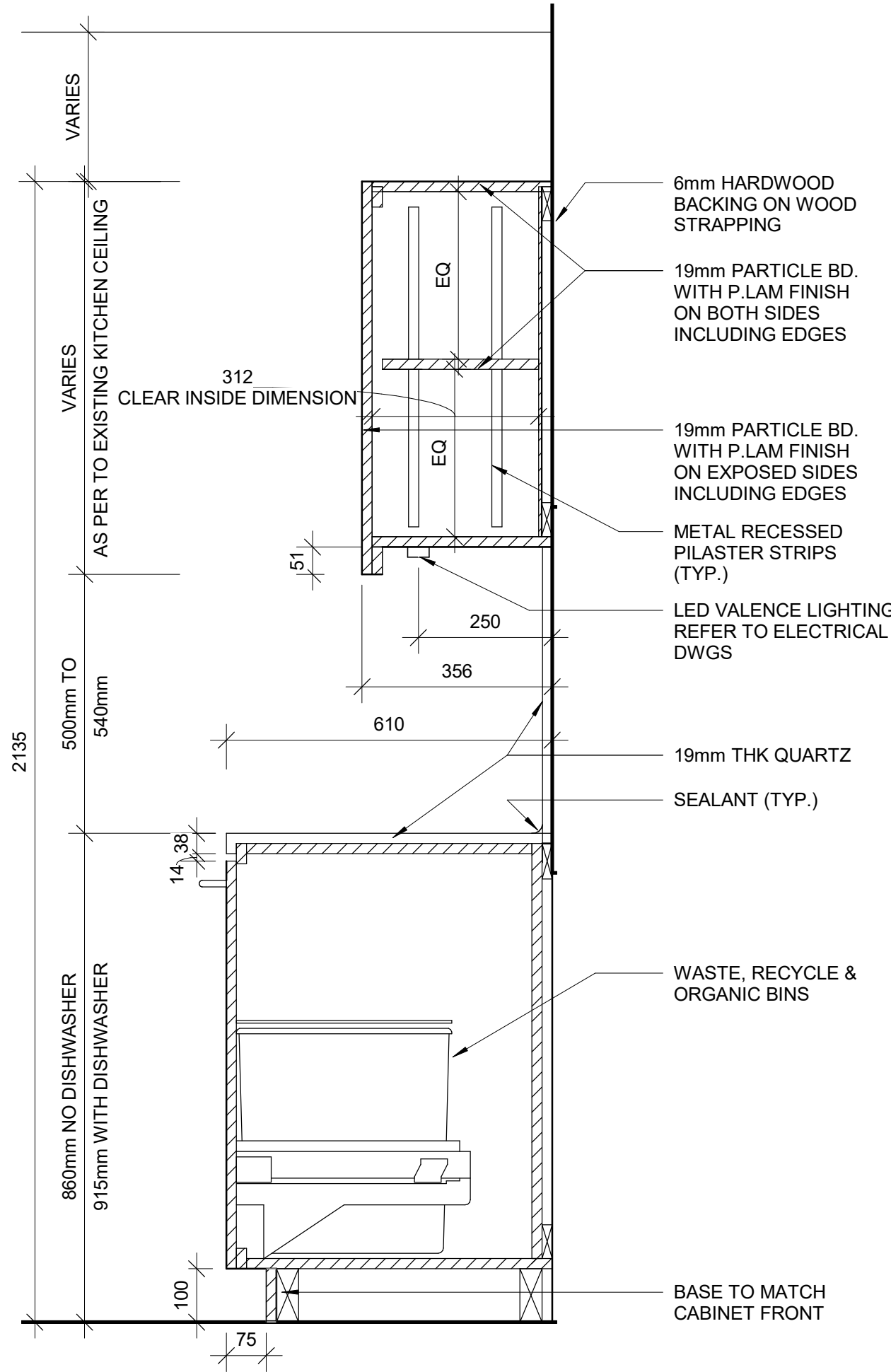
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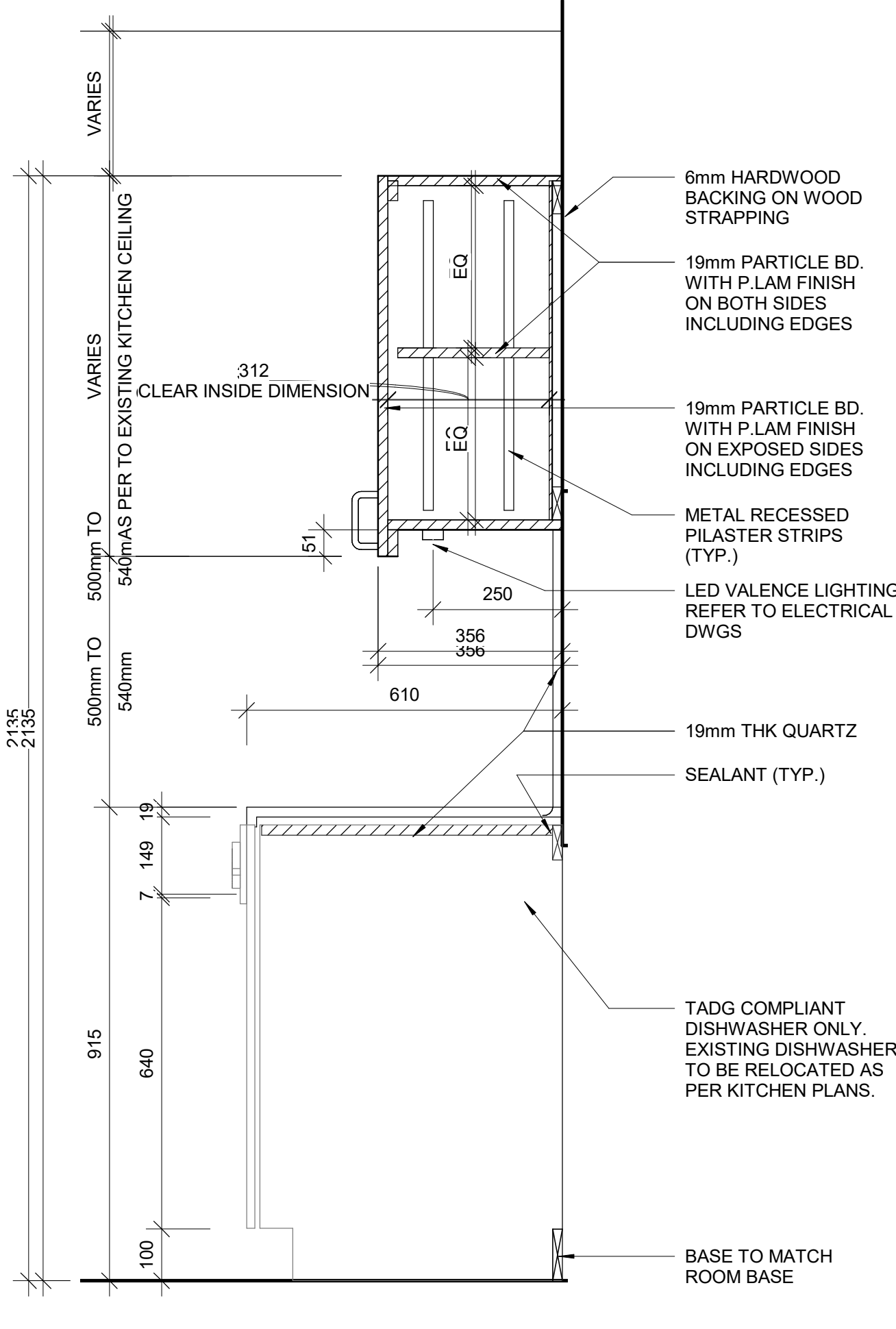
1 BASE CABINETRY- MICROWAVE STORAGE
D1302 / Scale: 1 : 10



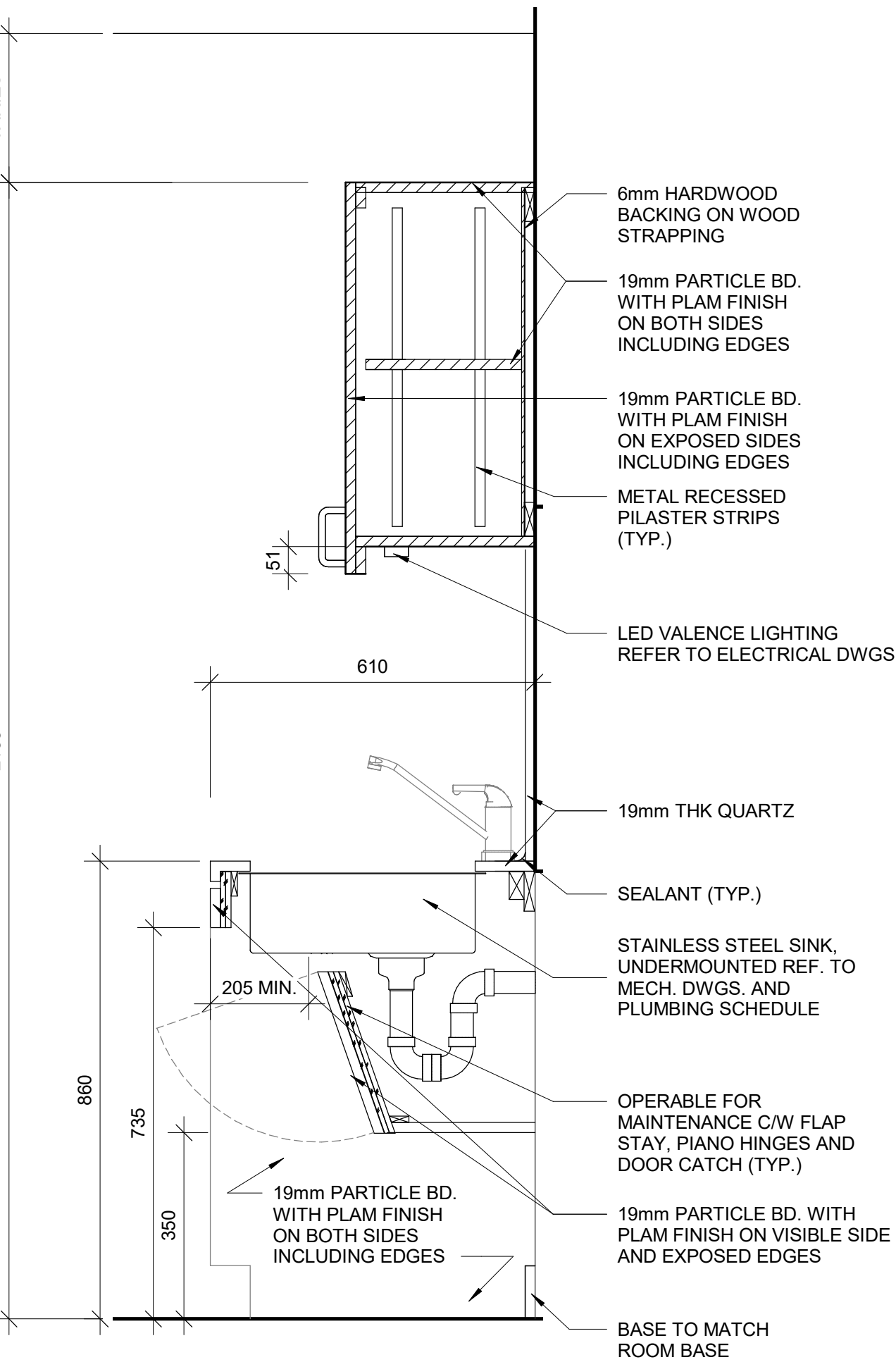
2 BASE CABINETRY WITH DRAWER
D1302 / Scale: 1 : 10



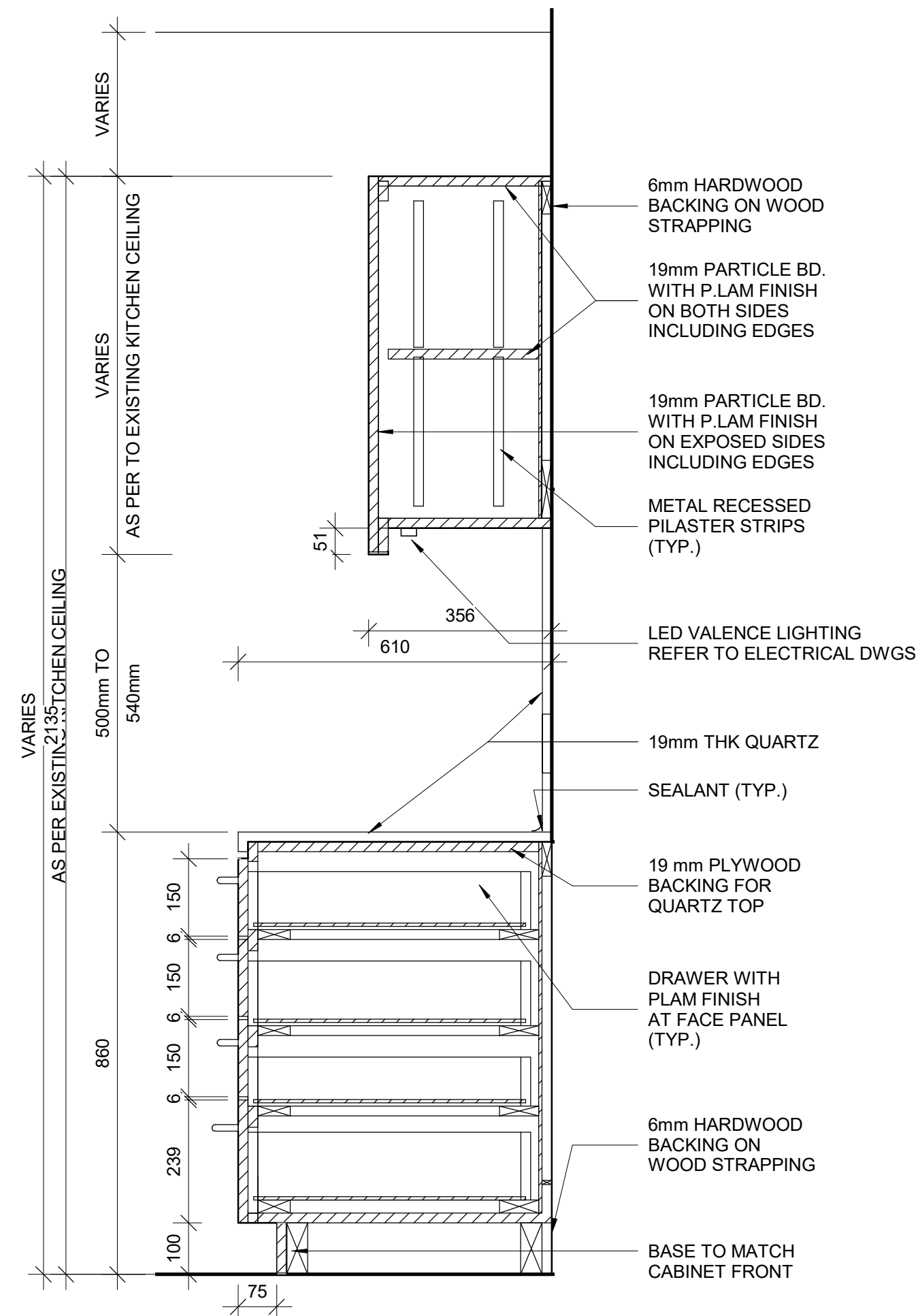
3 BASE CABINETRY WITH GARBAGE BIN
D1302 / Scale: 1 : 10



4 BASE CABINETRY WITH DISHWASHER
D1302 / Scale: 1 : 10

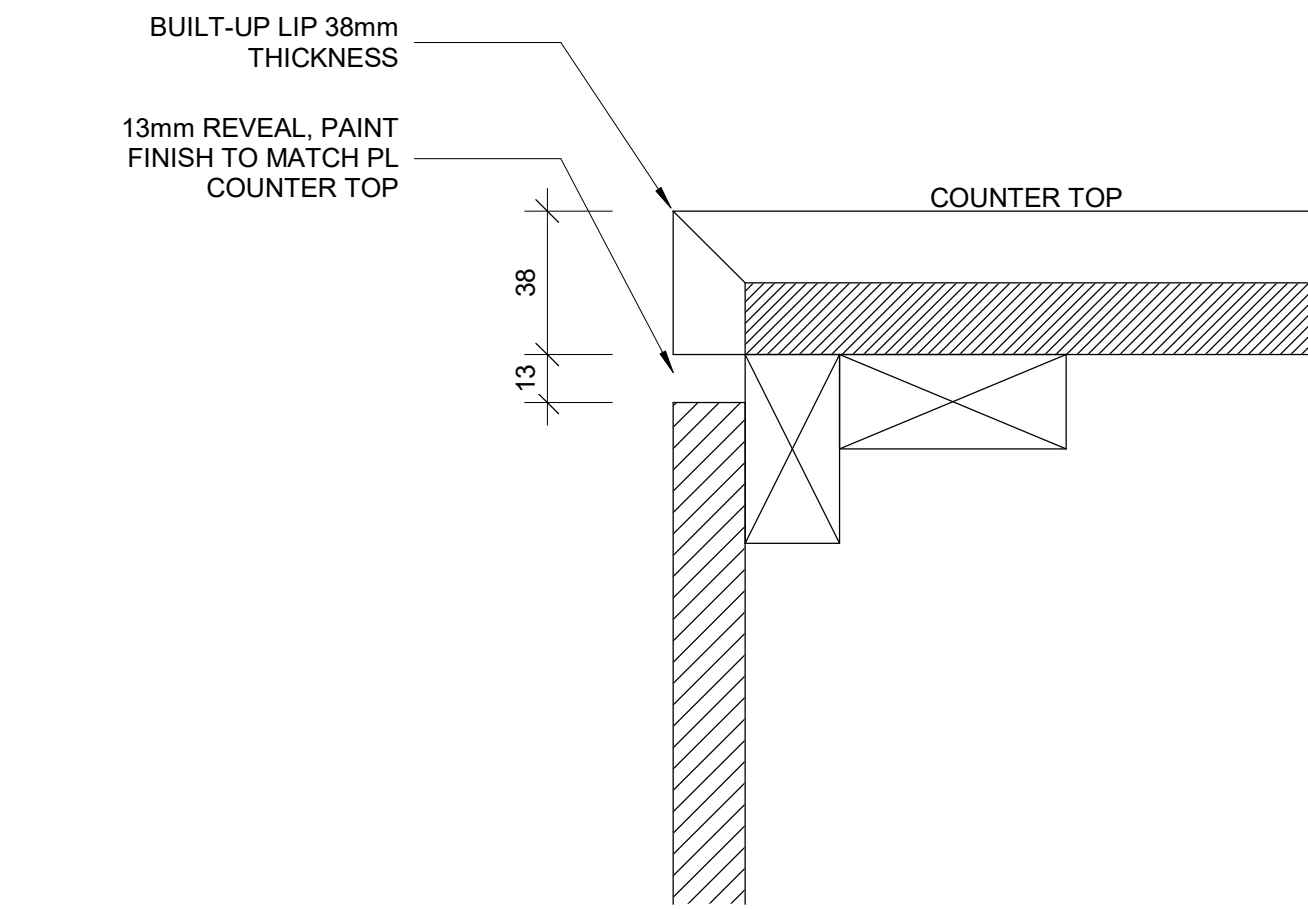


5 BASE CABINETRY WITH SINK
D1302 / Scale: 1 : 10



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

RESERVED



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

NOTE:

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- CONTRACTOR TO CONFIRM APPLIANCES SIZES PRIOR TO FABRICATION OF MILLWORK

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PROJECT TITLE

CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUA

SHEET TITLE

KITCHEN MILLWORK
DETAIL SECTIONS

SHEET NUMBER	ISSUE
D1302	A

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ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:
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DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUTA

SHEET TITLE

KITCHEN HOOD VENT
DETAIL

SHEET NUMBER D1303	ISSUE A
-----------------------	------------

SCALE CHECK

1 in

10mm

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RESERVED

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PROJECT NO:
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DRAWN BY:
A. BOYNARIAN

CHECKED BY:
K. TILAHUN

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
E. FENUTA

SHEET TITLE

RECEPTION DESK WITH
TEMPERED GLASS
MILLWORK

SHEET NUMBER

D1305

ISSUE

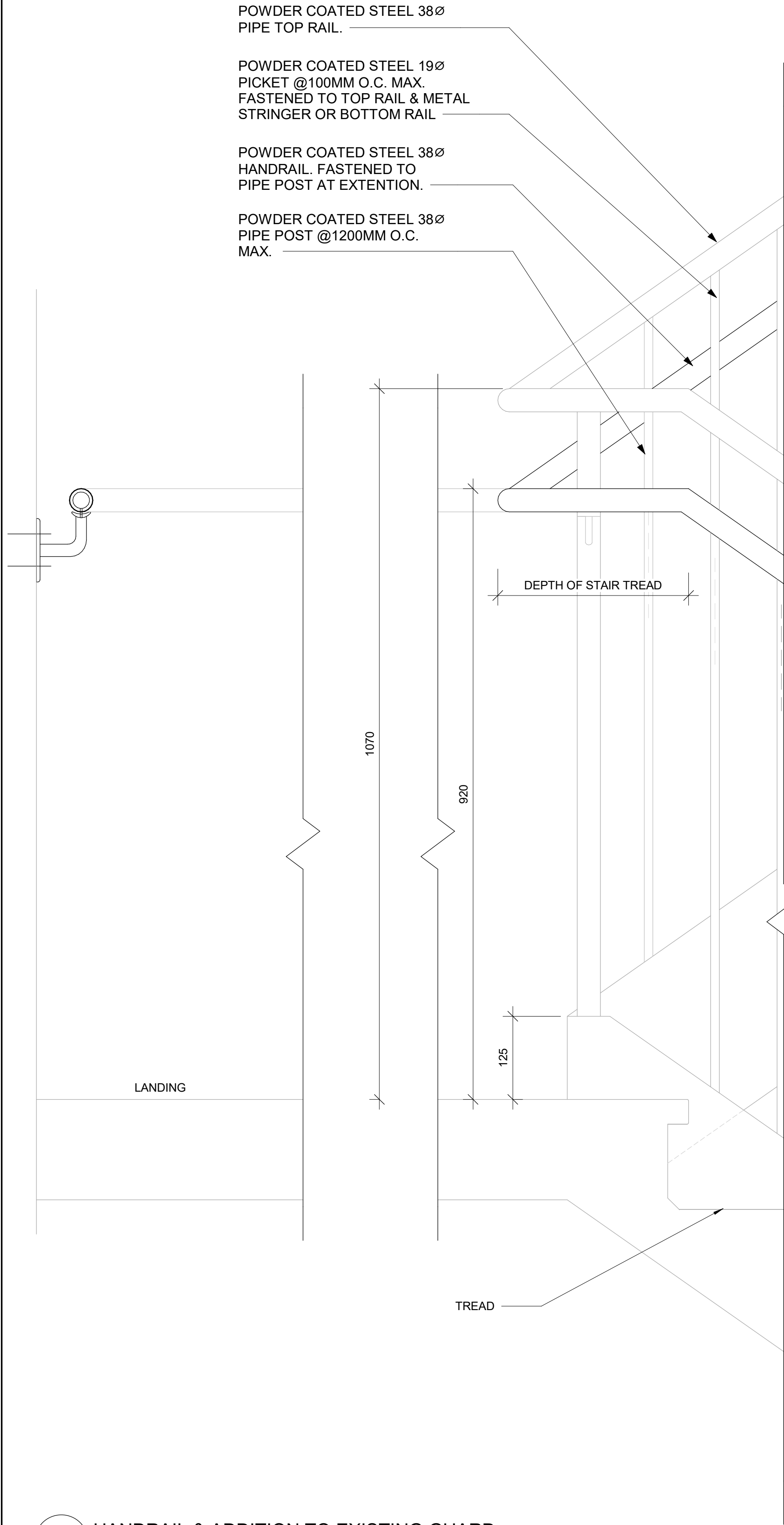
A

2025-04-11 10:38:53 AM

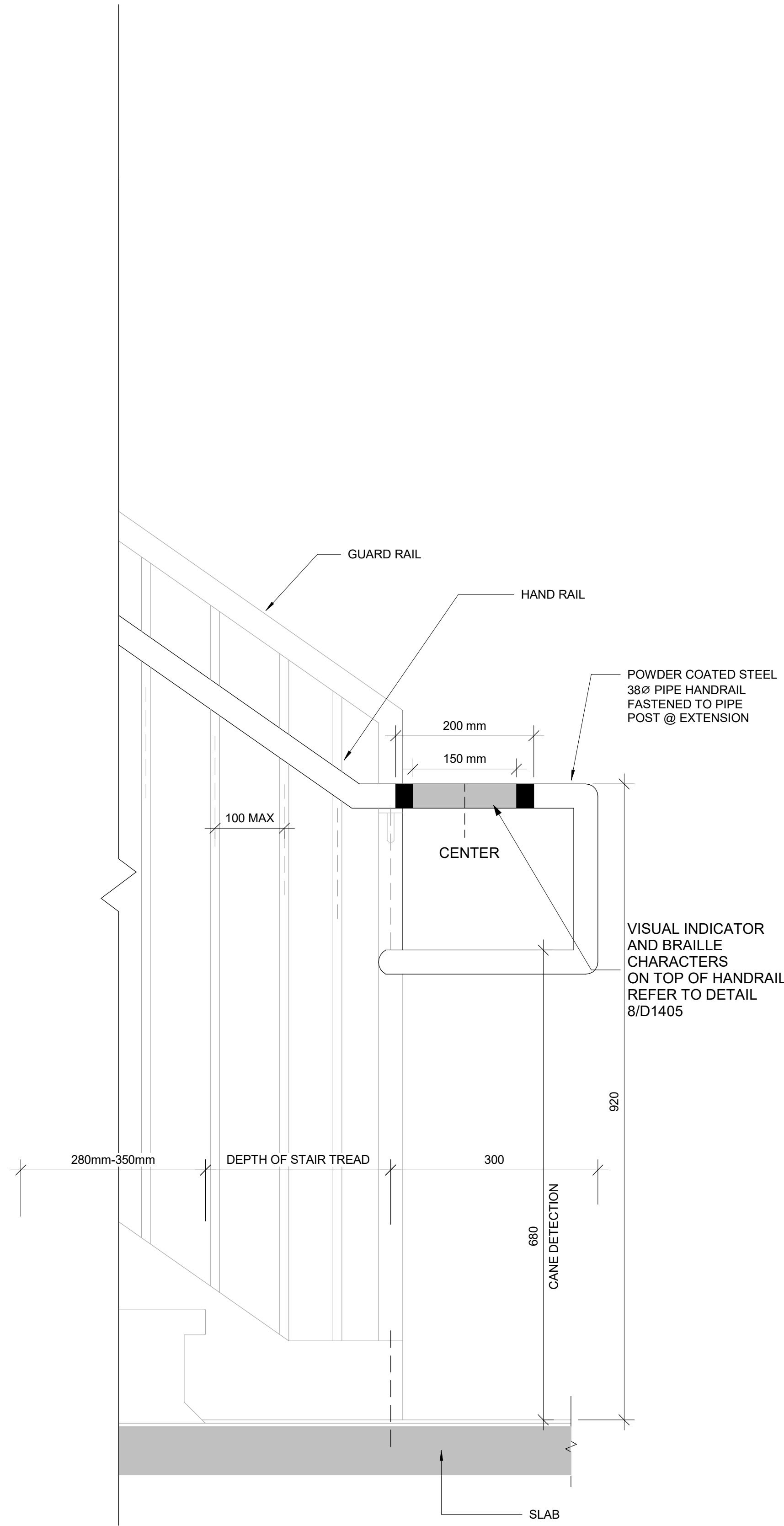
SCALE CHECK

1 in

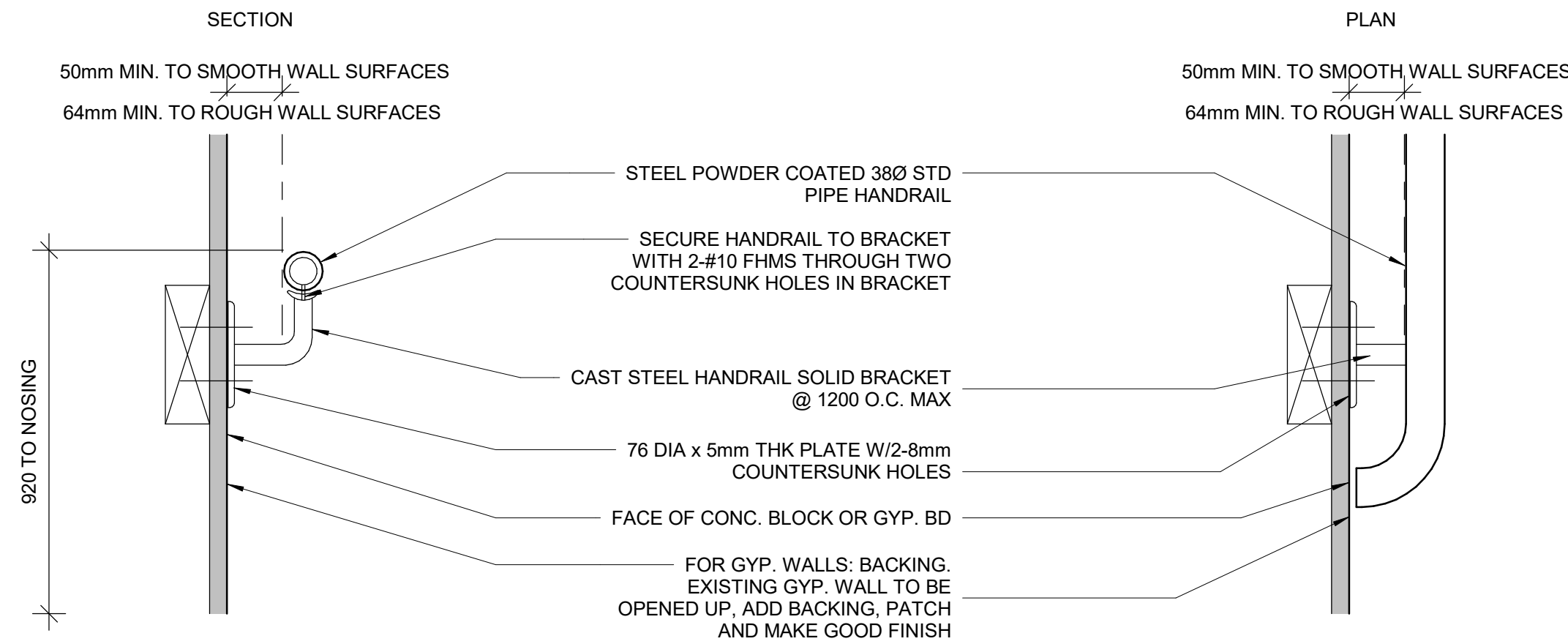
10mm



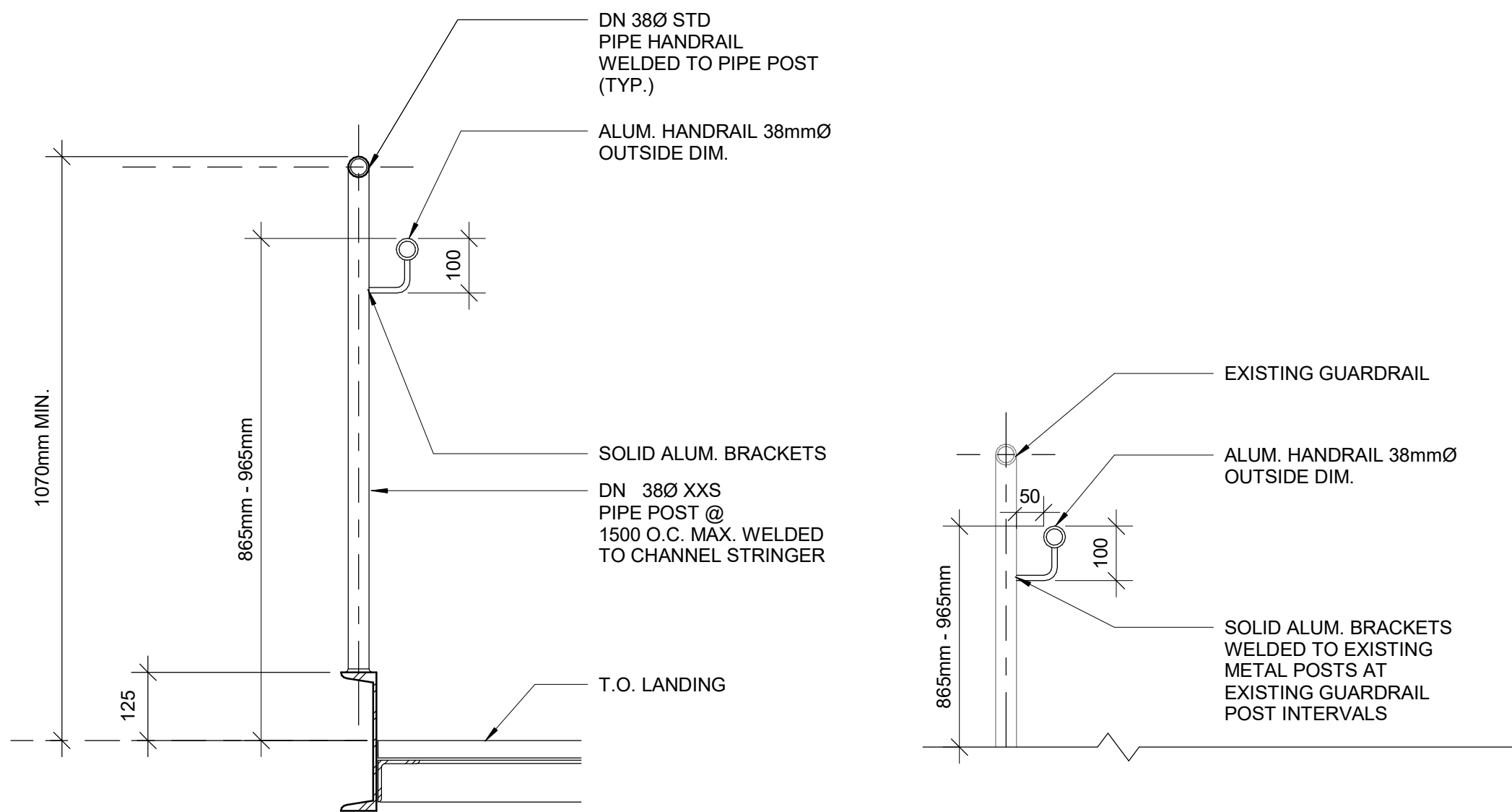
3 HANDRAIL & ADDITION TO EXISTING GUARD
D1401 Scale: 1 : 5



- 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

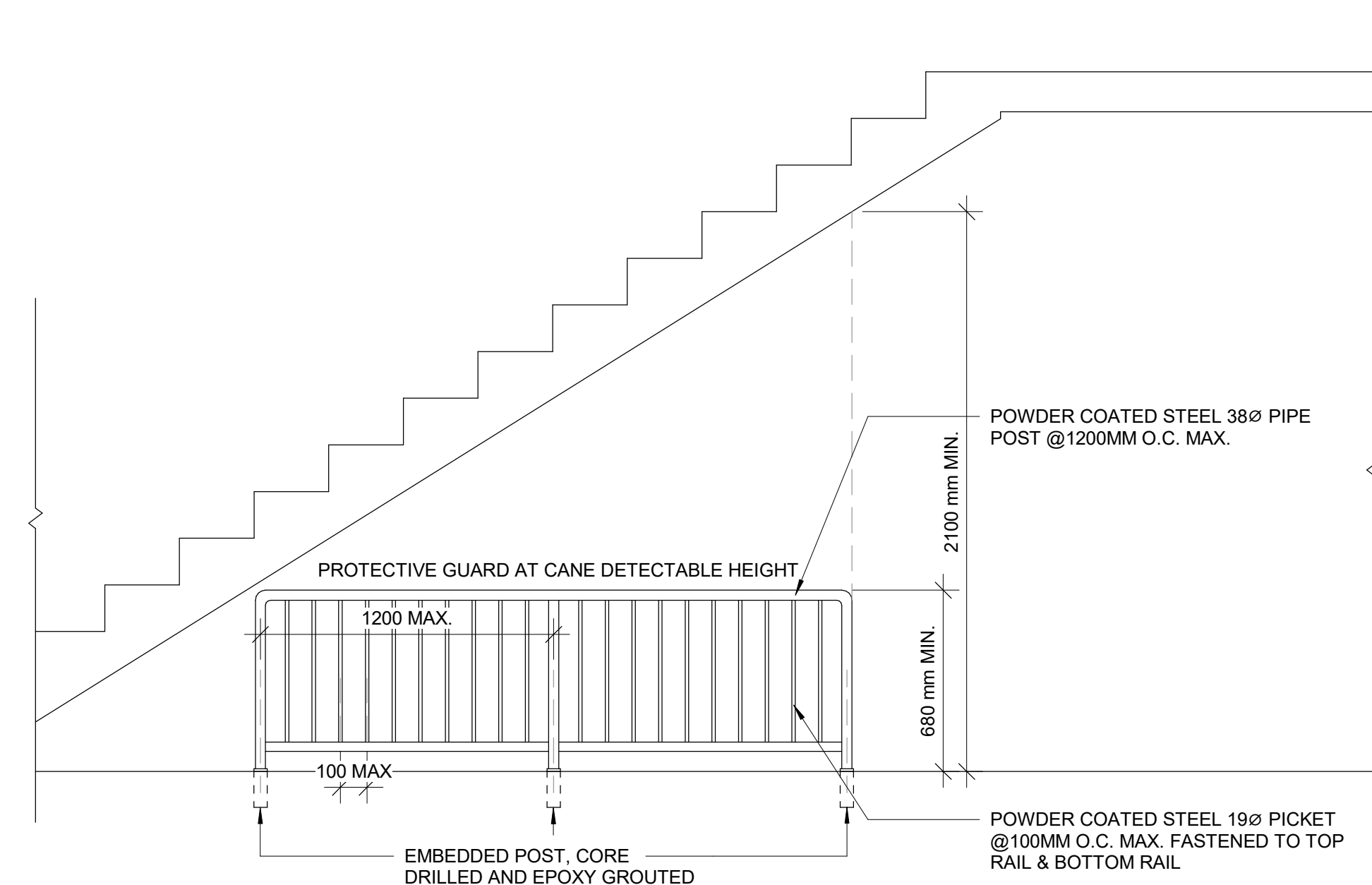


1 STAIR HANDRAIL DETAIL WITH WALL REINFORCEMENT
D1401 Scale: 1 : 5



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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ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY:
A. BOYNARIAN

CHECKED BY:
K. TILAHUN

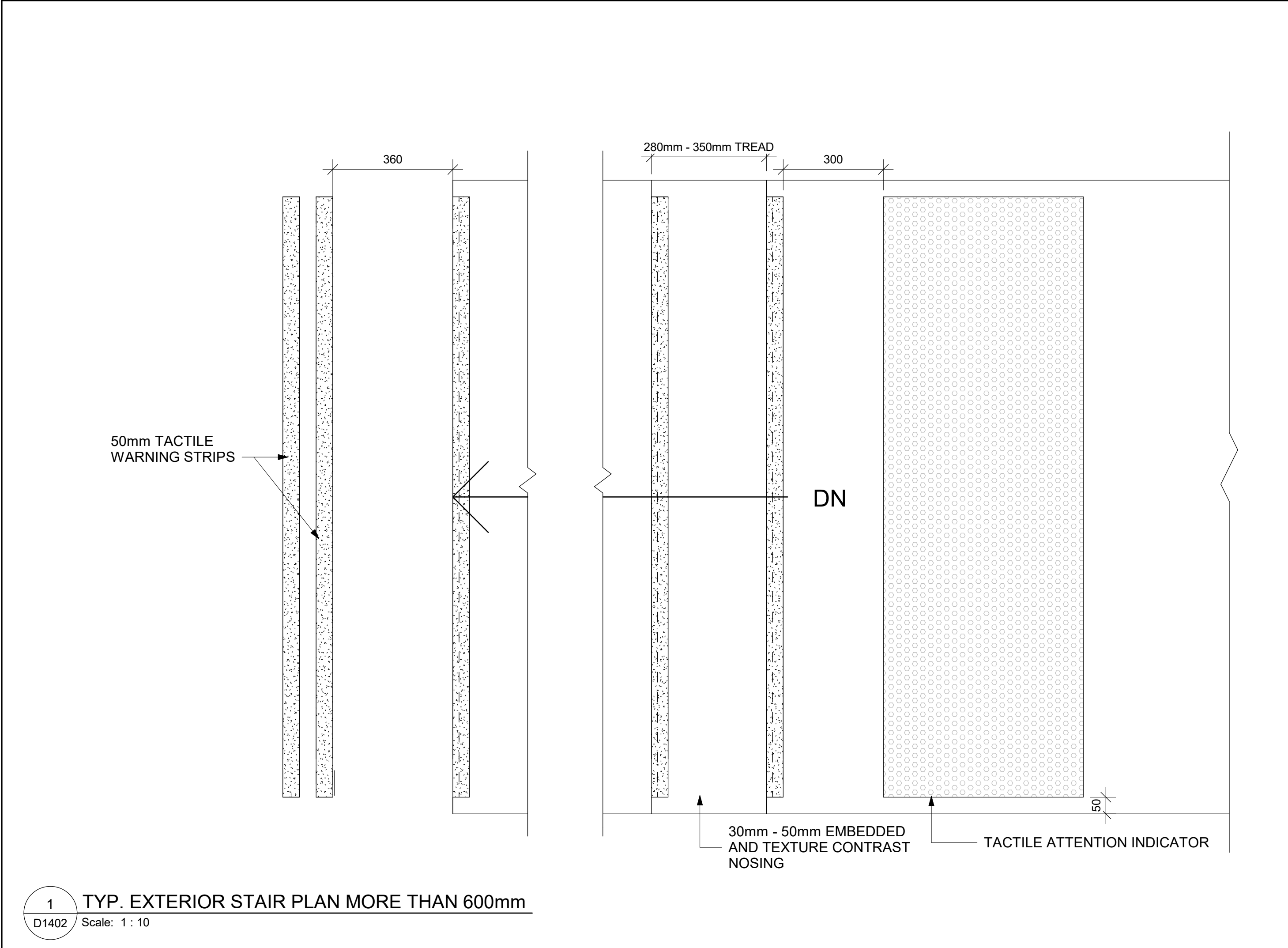
PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
E. FENUITA

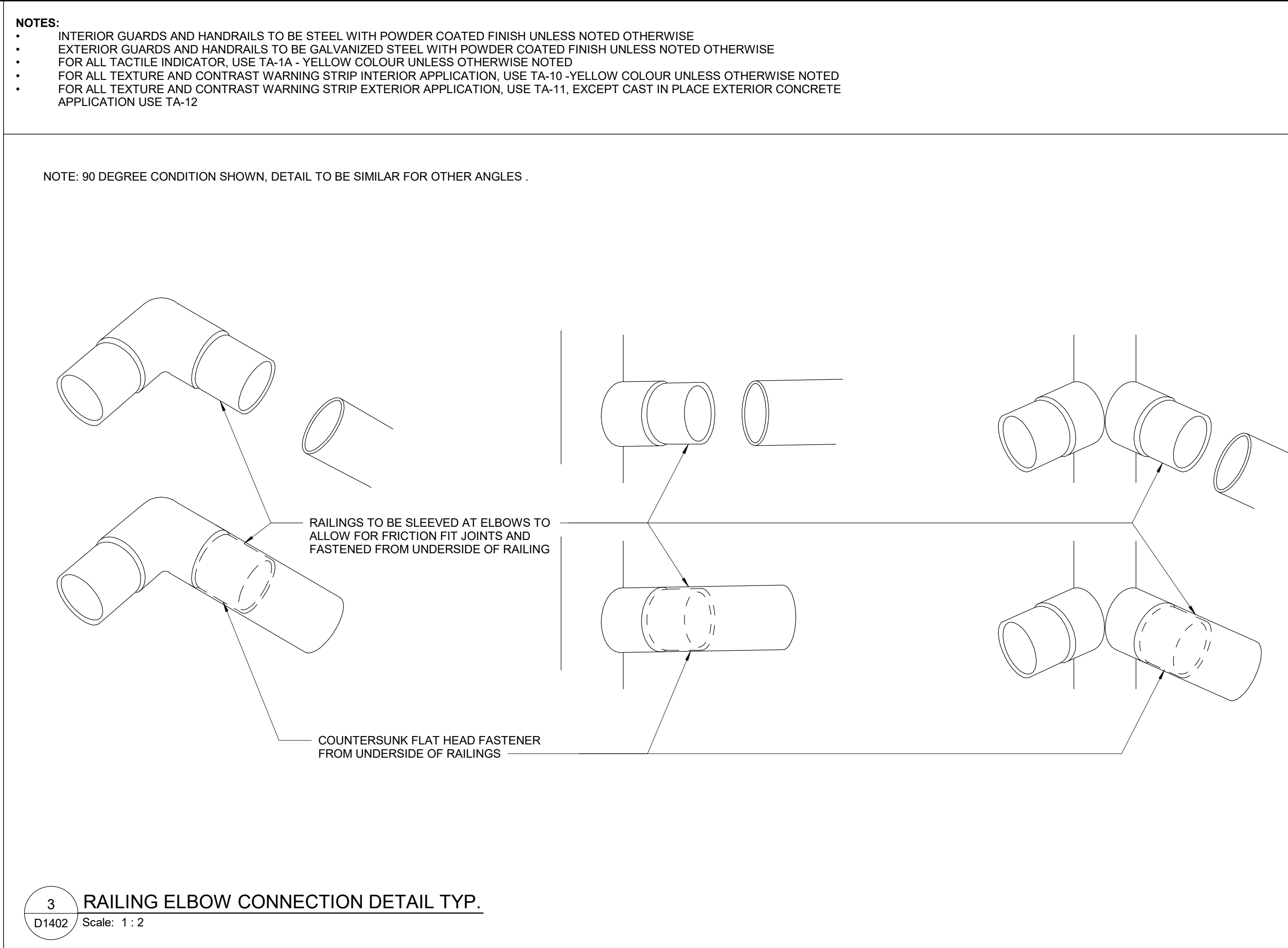
SHEET TITLE
STAIR DETAILS - 01

SHEET NUMBER
D1401

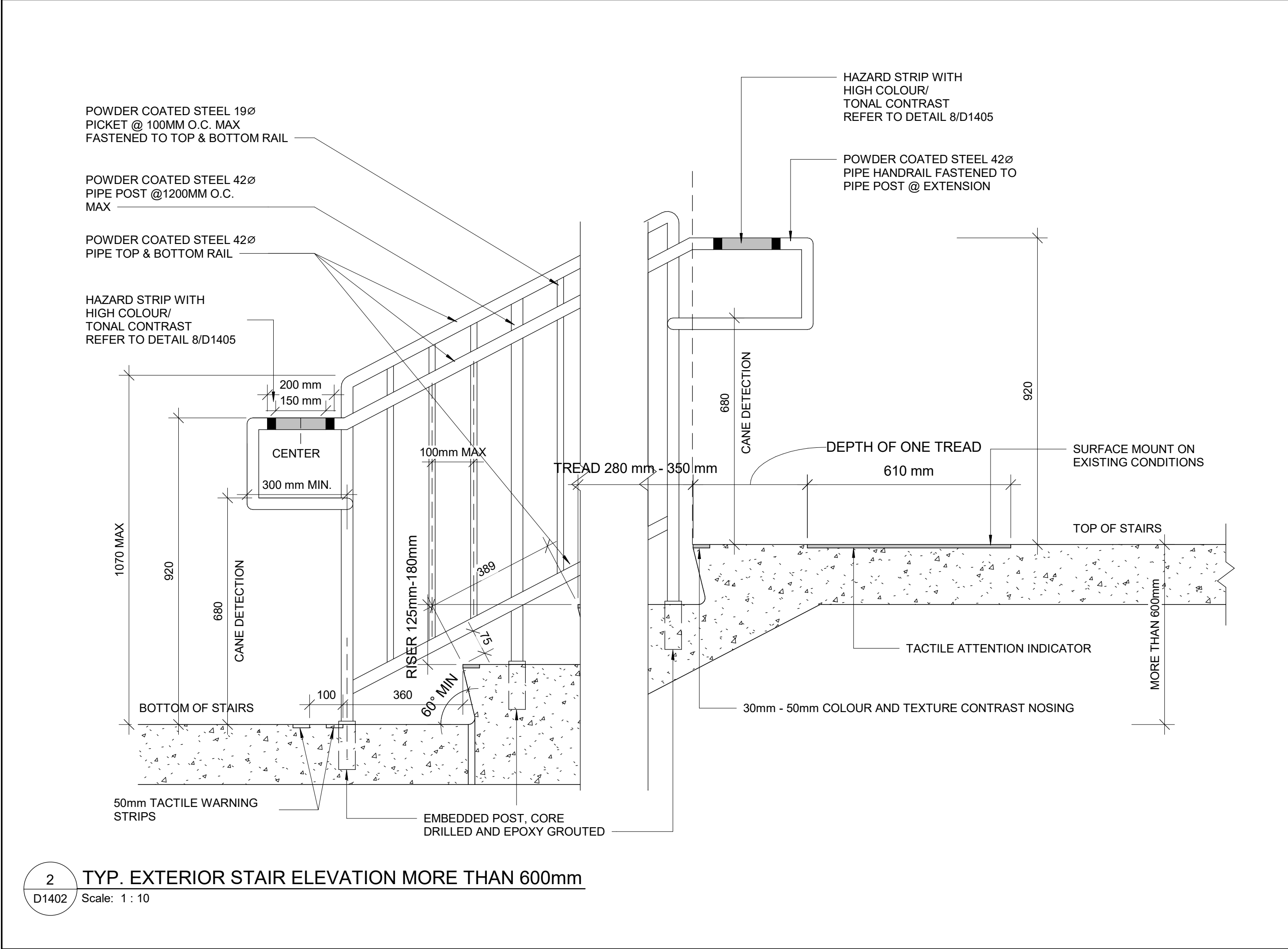
ISSUE
A



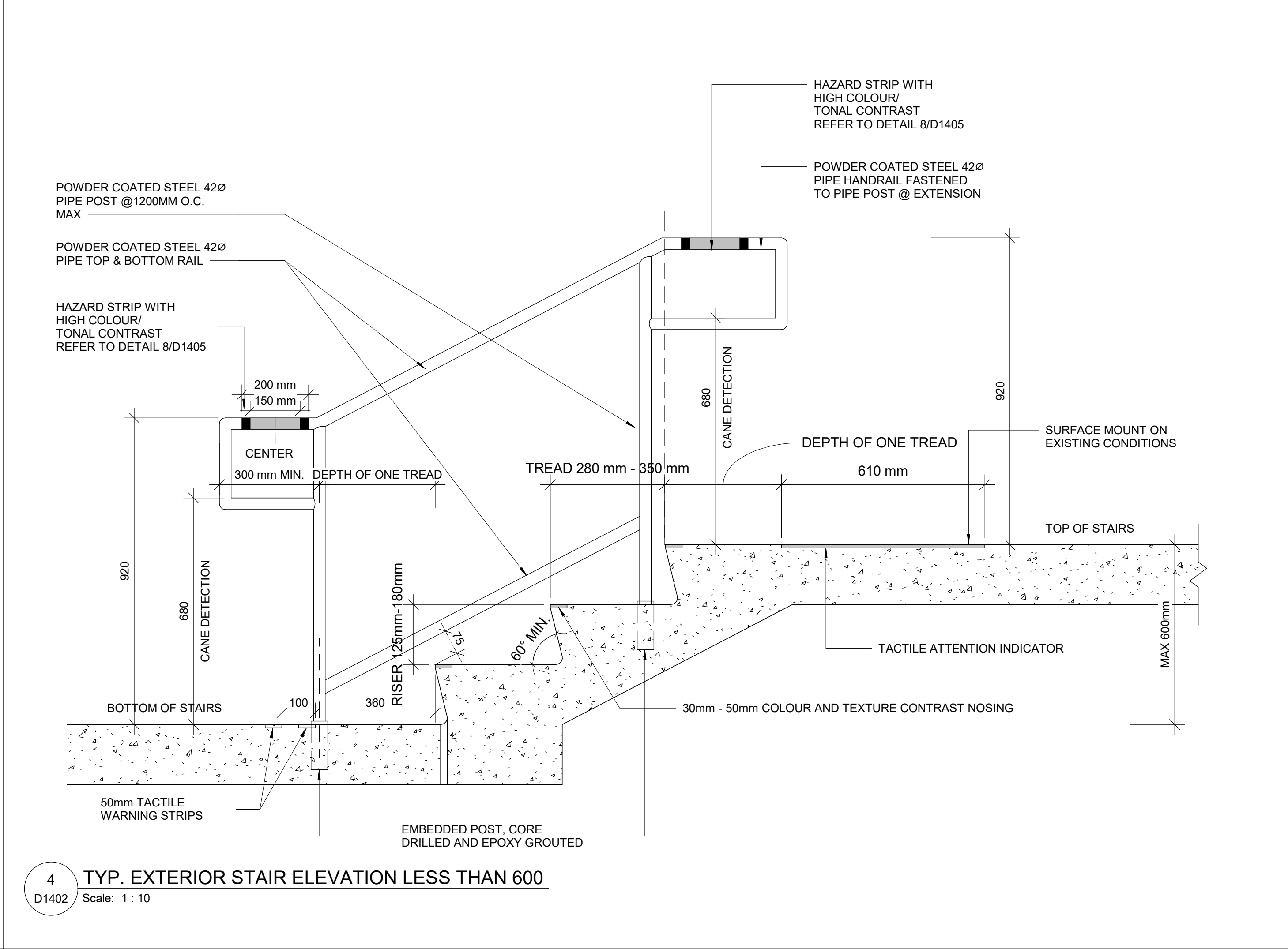
1 TYP. EXTERIOR STAIR PLAN MORE THAN 600mm
D1402 Scale: 1 : 10



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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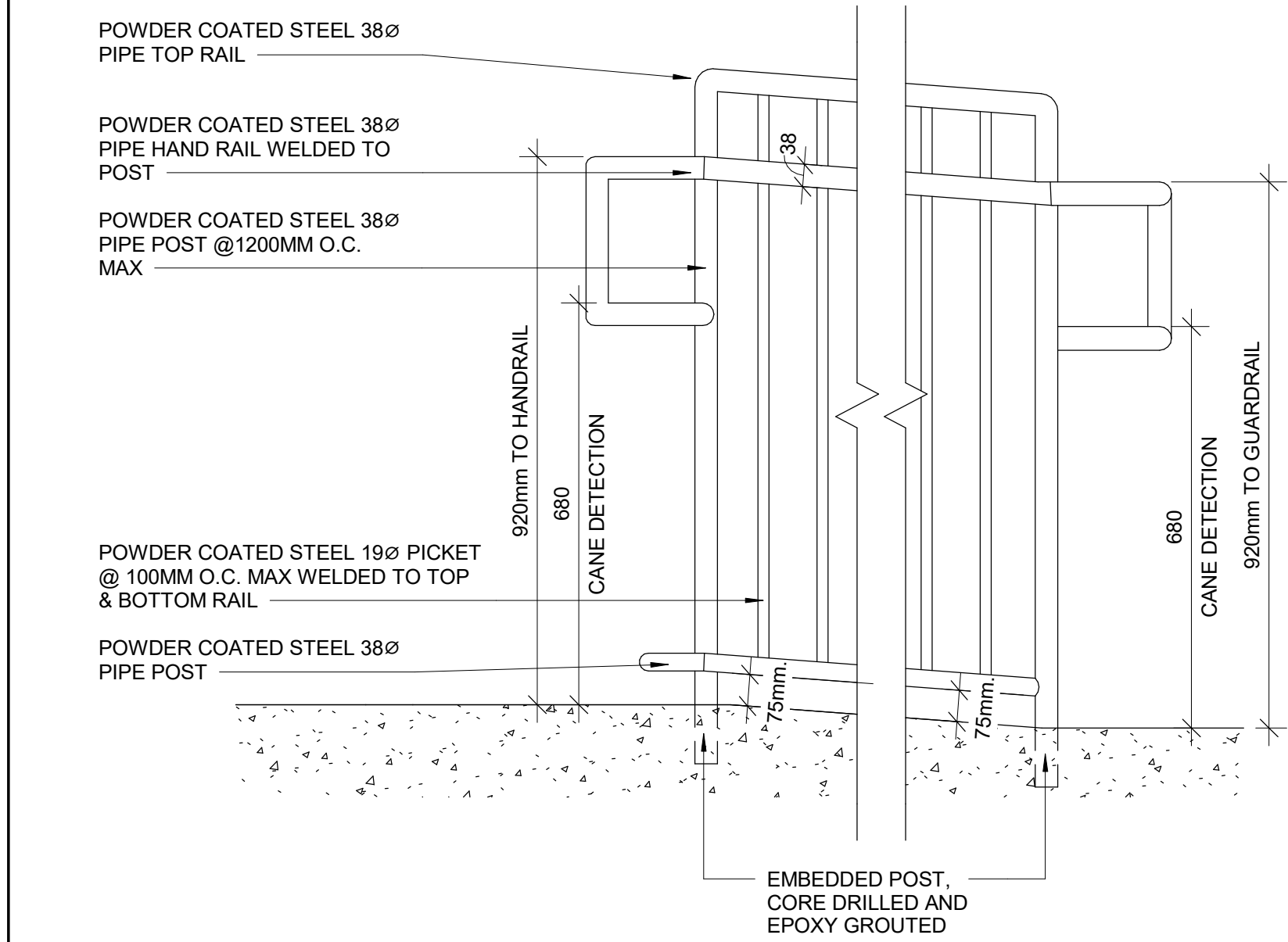
PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUTA

SHEET TITLE
STAIR DETAILS - 02

SHEET NUMBER D1402	ISSUE A
------------------------------	-------------------

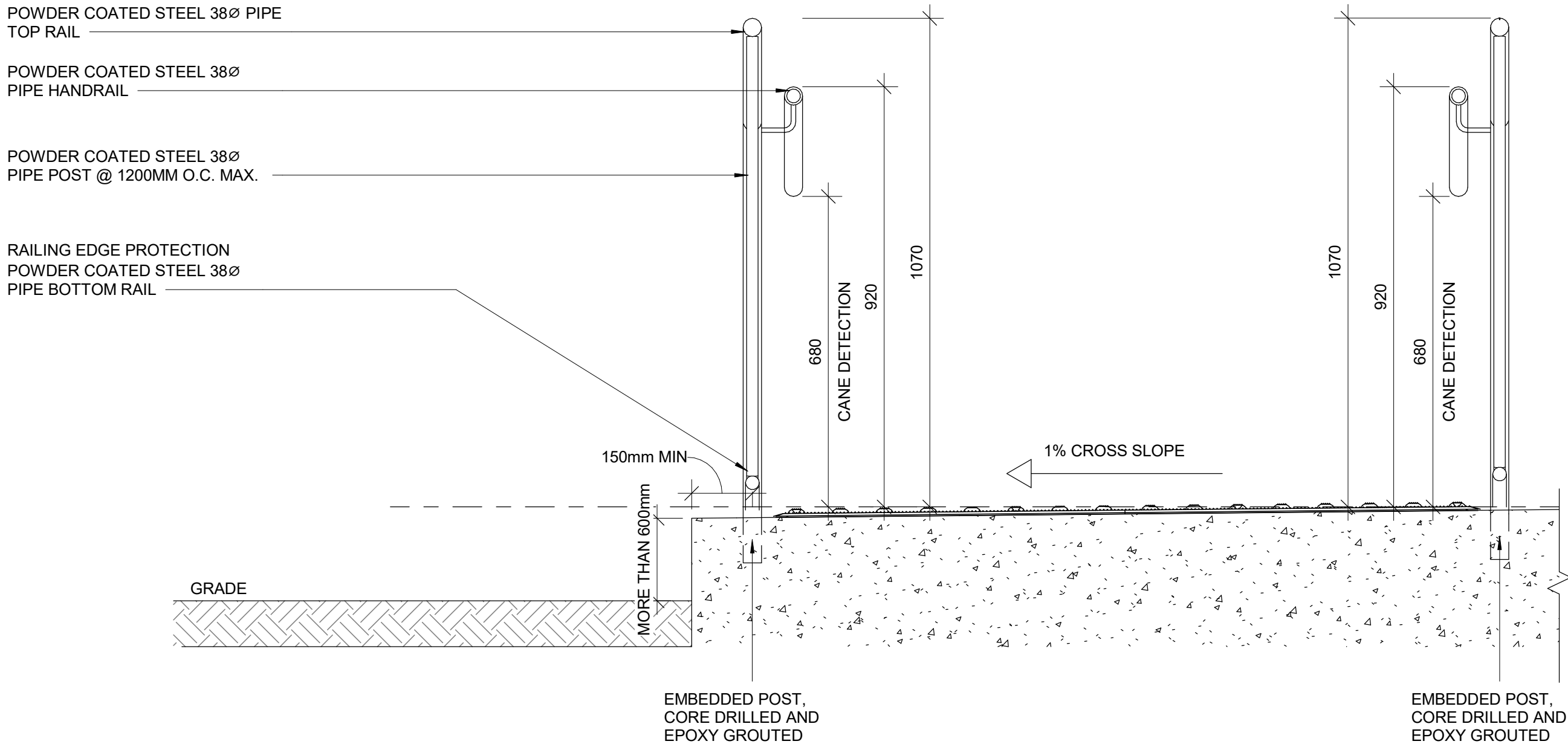
- NOTES:
- INTERIOR GUARDS AND HANDRAILS TO BE STEEL WITH POWDER COATED FINISH UNLESS NOTED OTHERWISE
 - EXTERIOR GUARDS AND HANDRAILS TO BE GALVANIZED STEEL WITH POWDER COATED FINISH UNLESS NOTED OTHERWISE
 - FOR ALL TACTILE INDICATOR, USE TA-1A - YELLOW COLOUR UNLESS OTHERWISE NOTED
 - FOR ALL TEXTURE 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 ELEVATION OF GUARDRAIL FOR RAMP AT GRADE DIFFERENCE MORE THAN 600 MM
D1404 Scale: 1 : 10

2025-04-11 10:38:53 AM

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



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PROJECT TITLE
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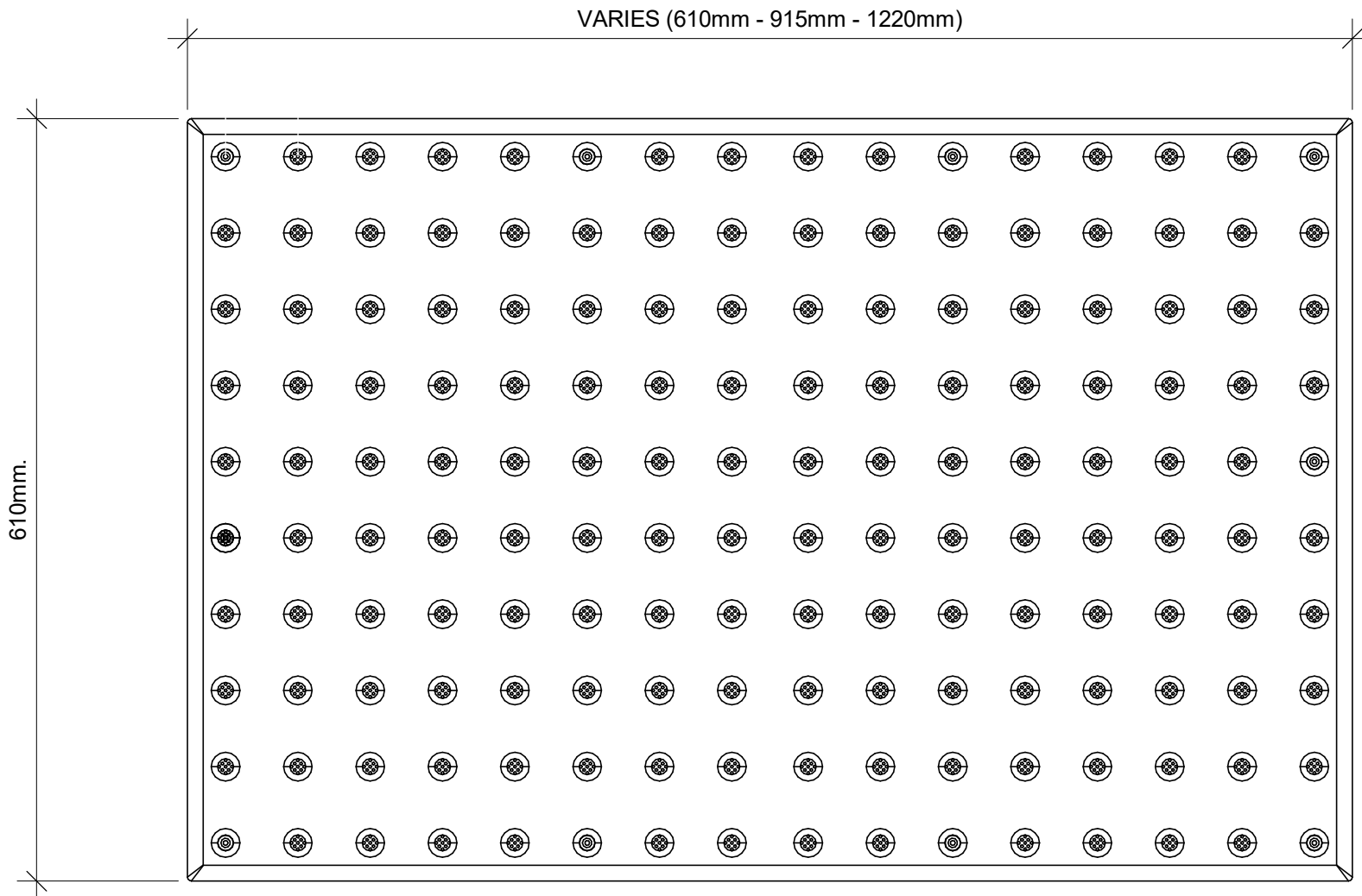
DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUTA

SHEET TITLE
RAMP DETAILS - 02

SHEET NUMBER D1404	ISSUE A
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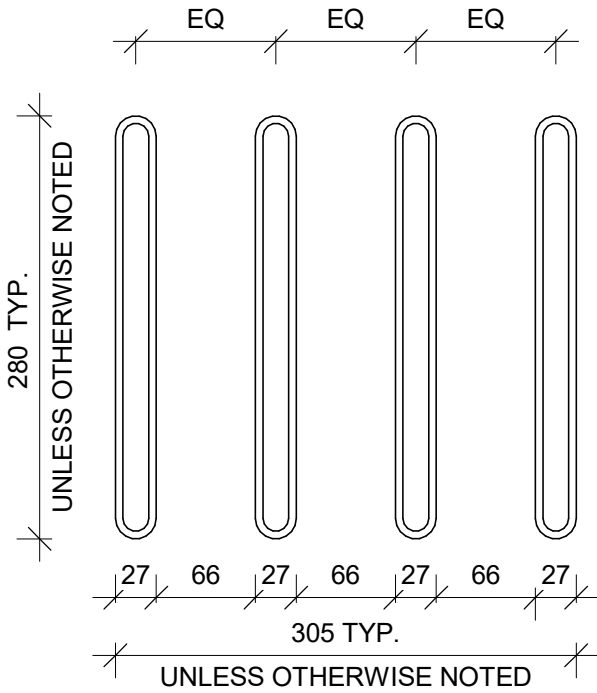
10mm
SCALE CHECK
1 in

TA - 1a
EXTERIOR AND INTERIOR APPLICATION



1 TACTILE ATTENTION INDICATOR
D1405 / Scale: 1 : 5

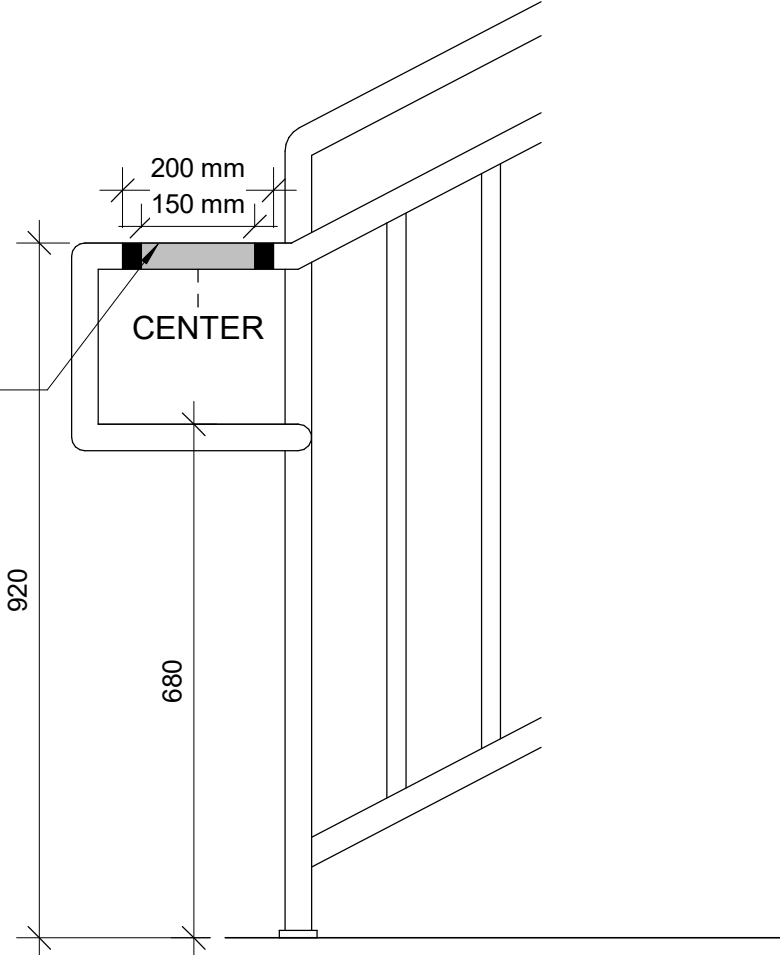
TA-8
INTERIOR APPLICATION



2 GUIDANCE BARS PLAN
D1405 / Scale: 1 : 5

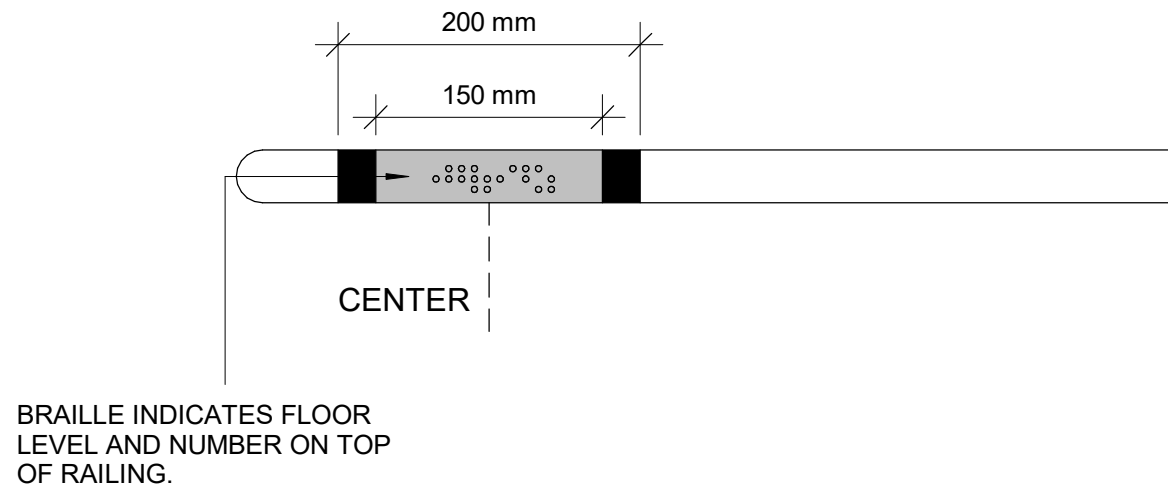
150mm LONG YELLOW COLOUR
WAYFINDING SIGN WITH BRAILLE AND
25mm WIDE RED COLOUR ON EITHER
SIDE OF THE SIGN

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



10 HANDRAIL HAZARD STRIP PLAN
D1405 / Scale: 1 : 5

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A	ISSUED FOR TENDER	2025-04-11

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PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY:
A. BOYNARIAN

CHECKED BY:
K. TILAHUN

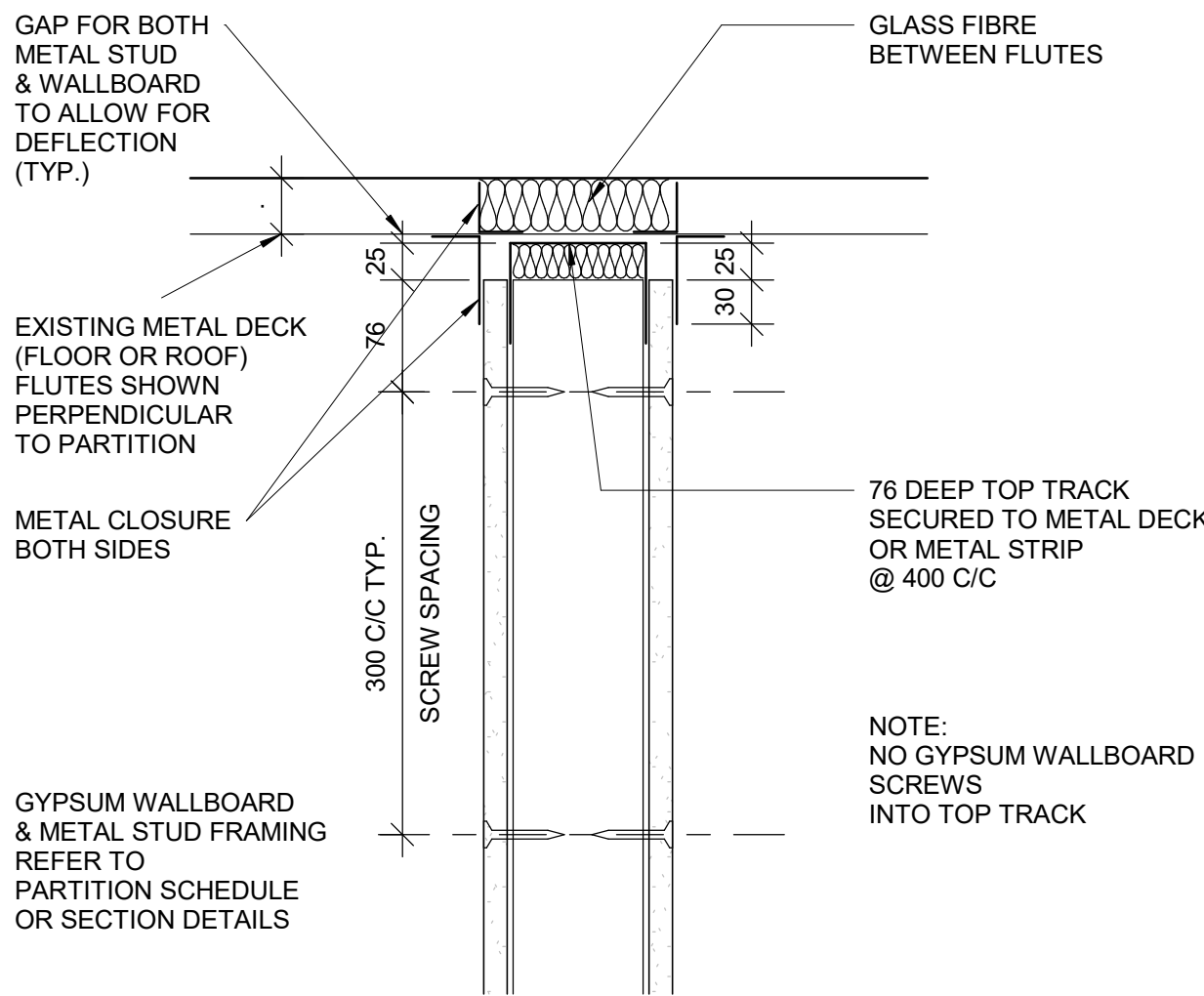
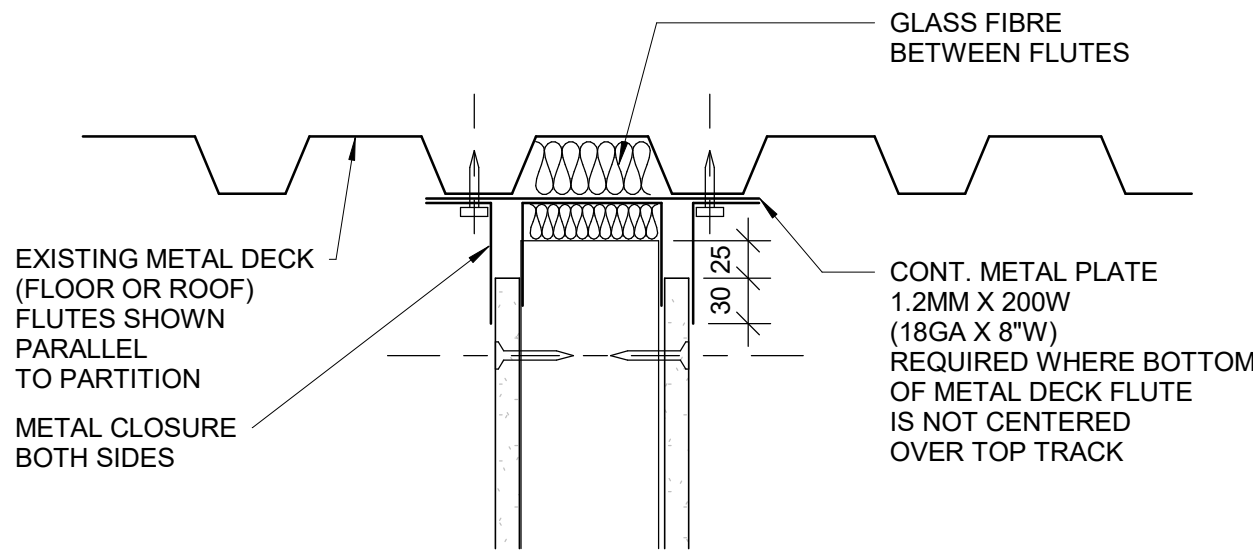
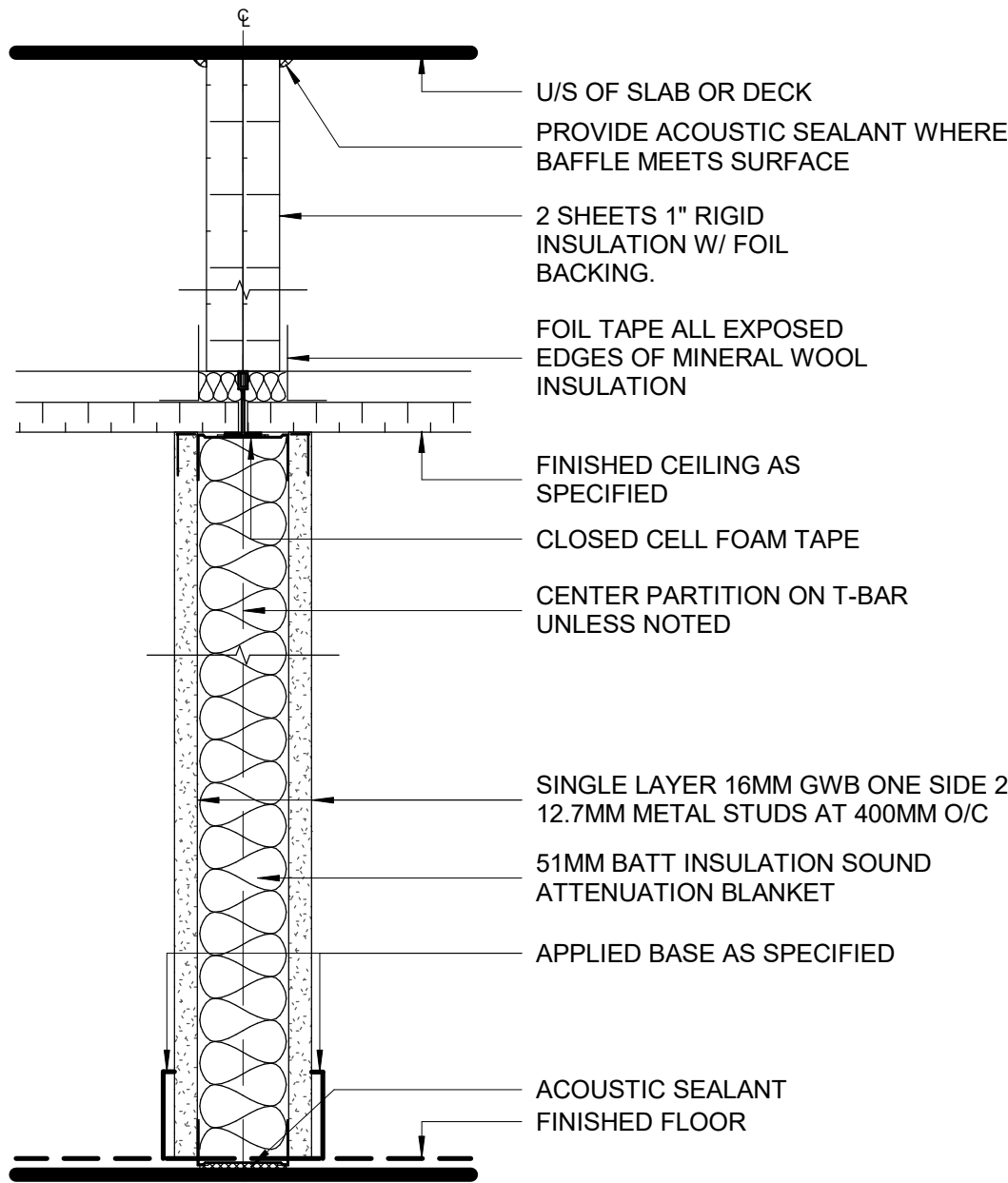
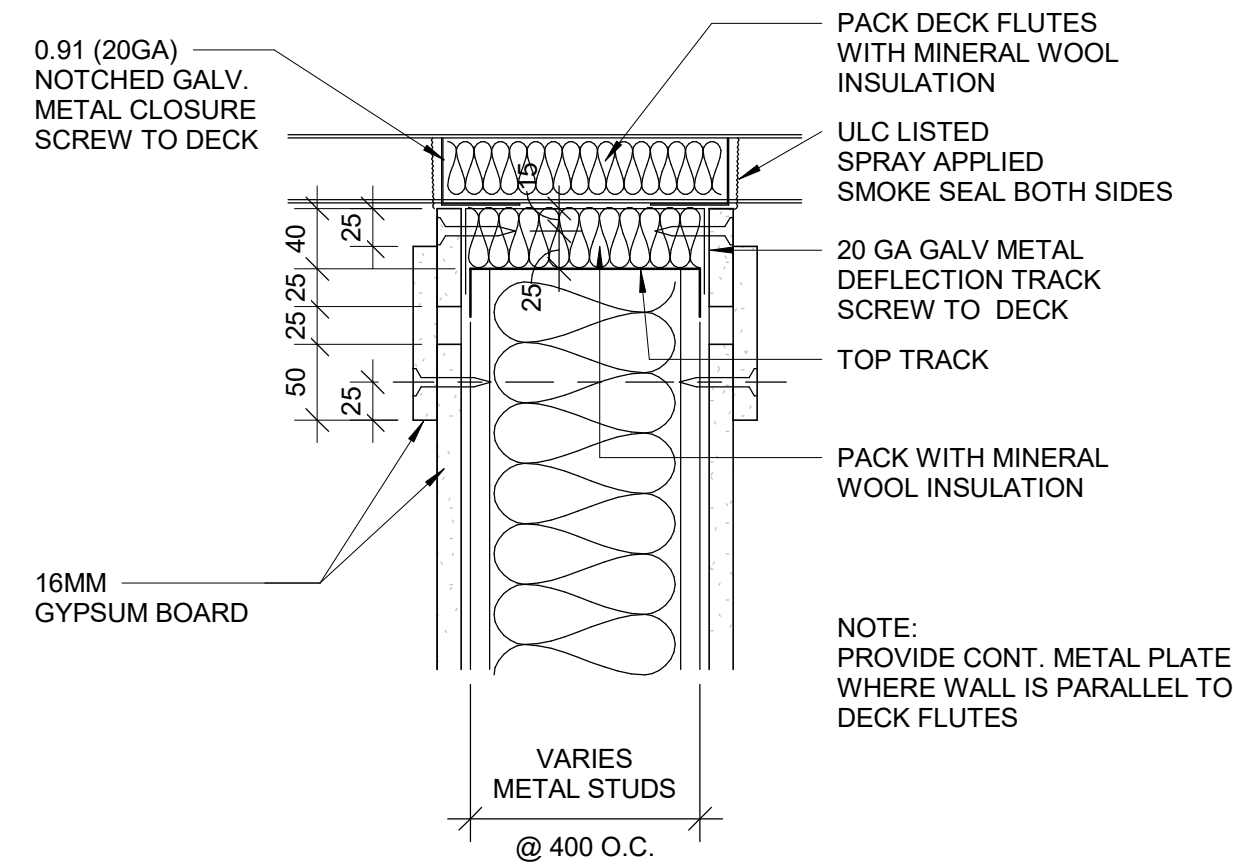
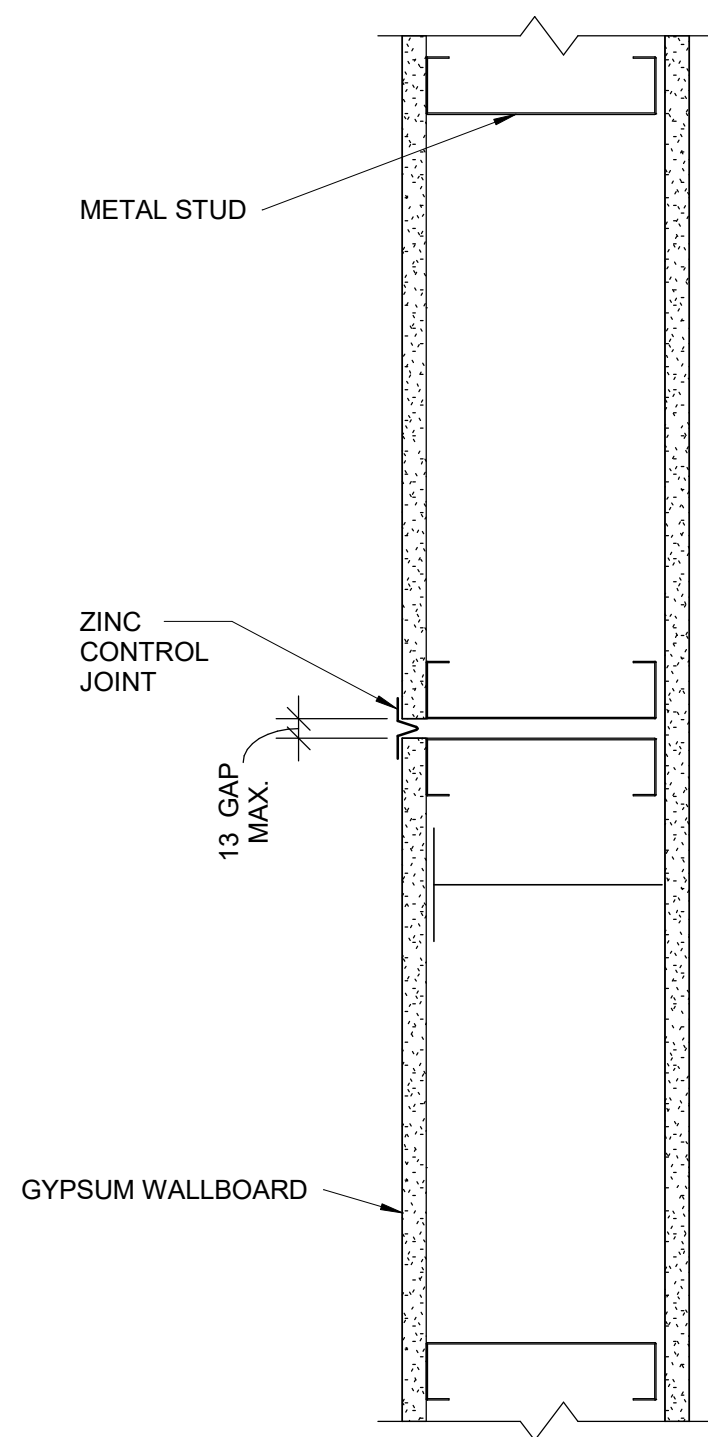
PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
E. FENUTA

SHEET TITLE
TACTILE DETAILS

SHEET NUMBER
D1405

ISSUE
A



1 CONTROL JOINT PLAN DETAIL - DRYWALL

3 HEAD DRYWALL FIRE RATED PARTITION

5 DRYWALL - ACOUSTICAL TREATMENT ABOVE CEILING

4 HEAD FULL HEIGHT DRYWALL PARTITION - NON RATED

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

SHEET TITLE

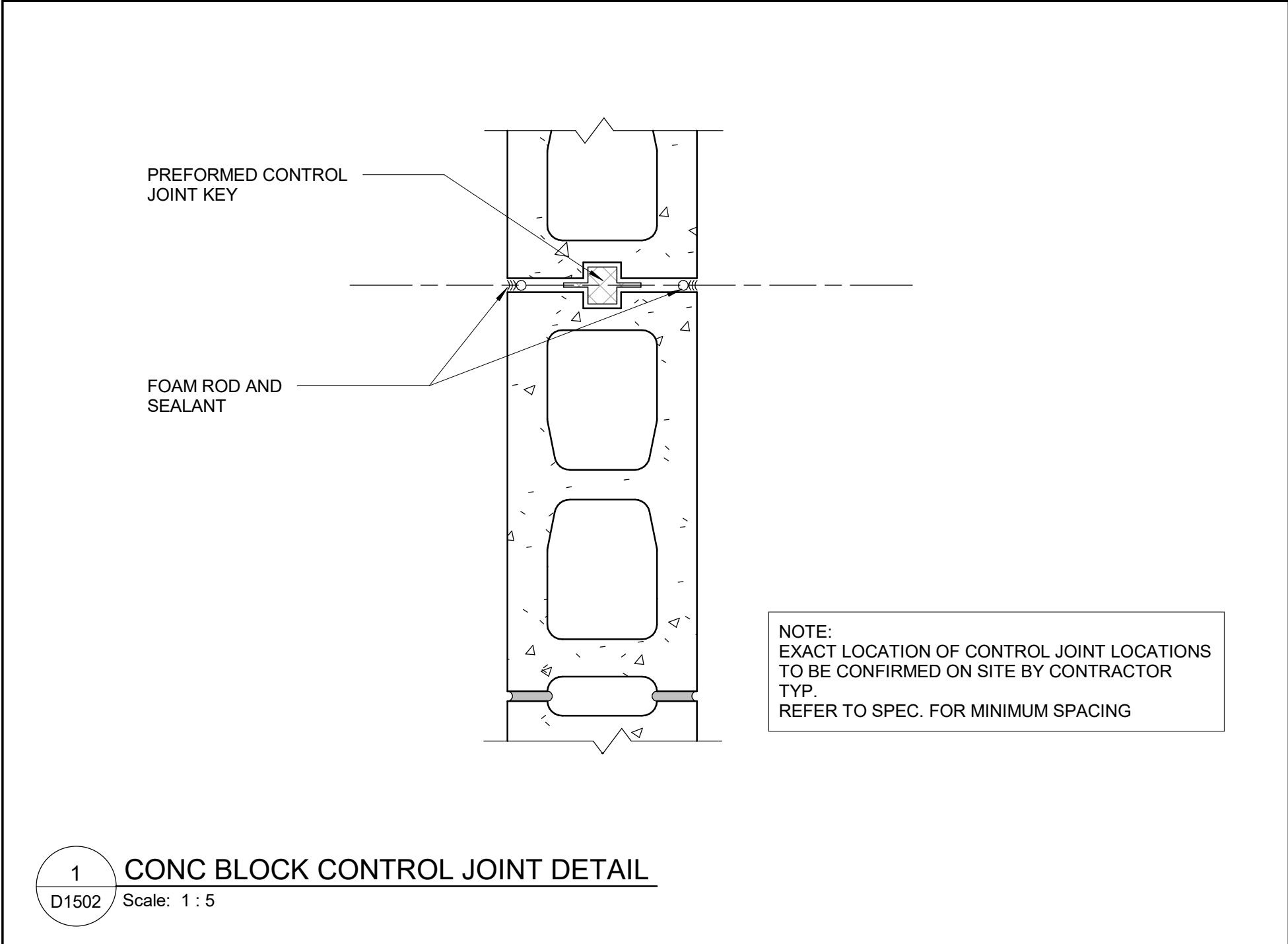
MISCELLANEOUS
DETAILS - 01

SHEET NUMBER	ISSUE
D1501	A

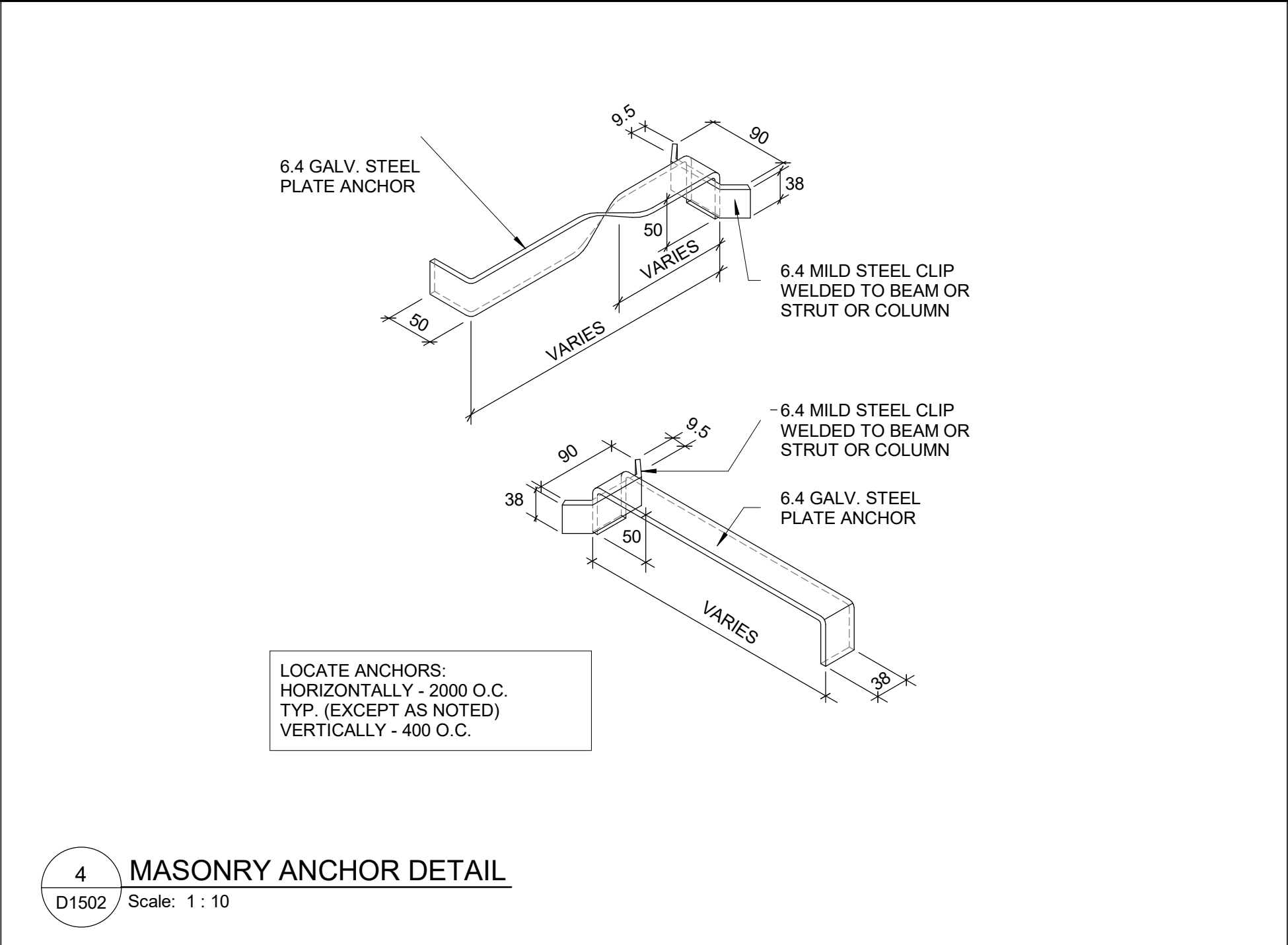
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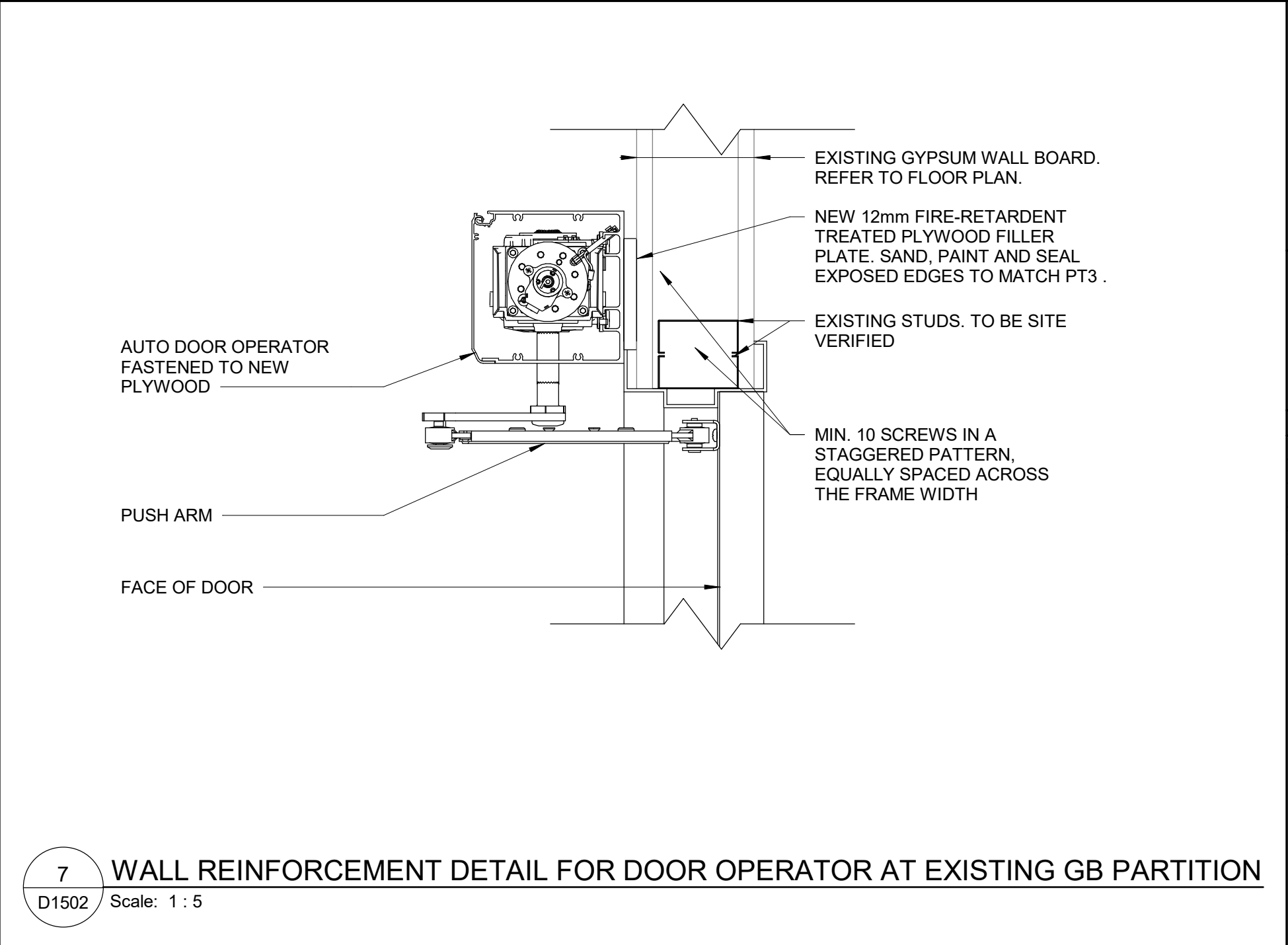
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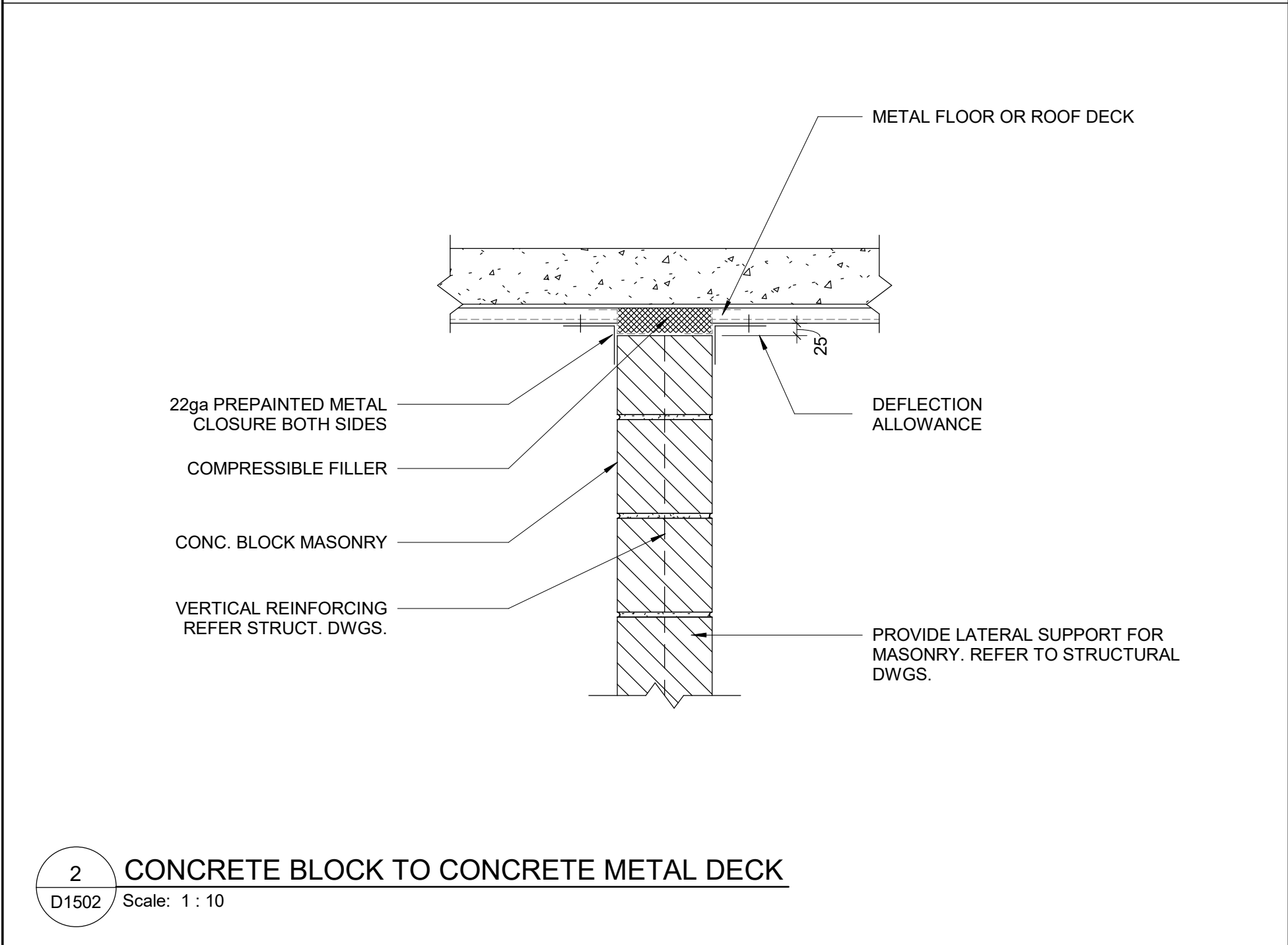
1 CONC BLOCK CONTROL JOINT DETAIL
D1502 Scale: 1 : 5



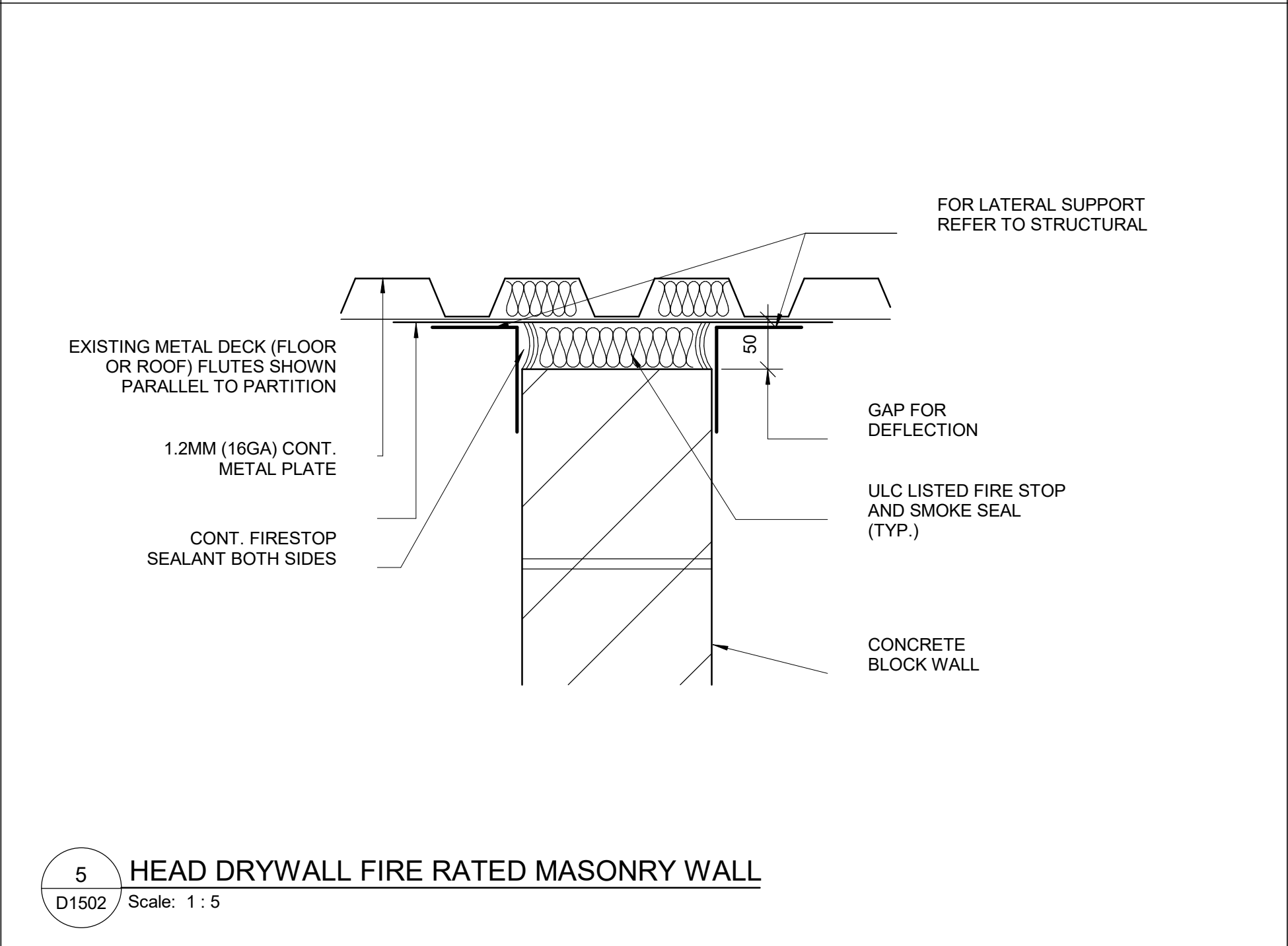
4 MASONRY ANCHOR DETAIL
D1502 Scale: 1 : 10



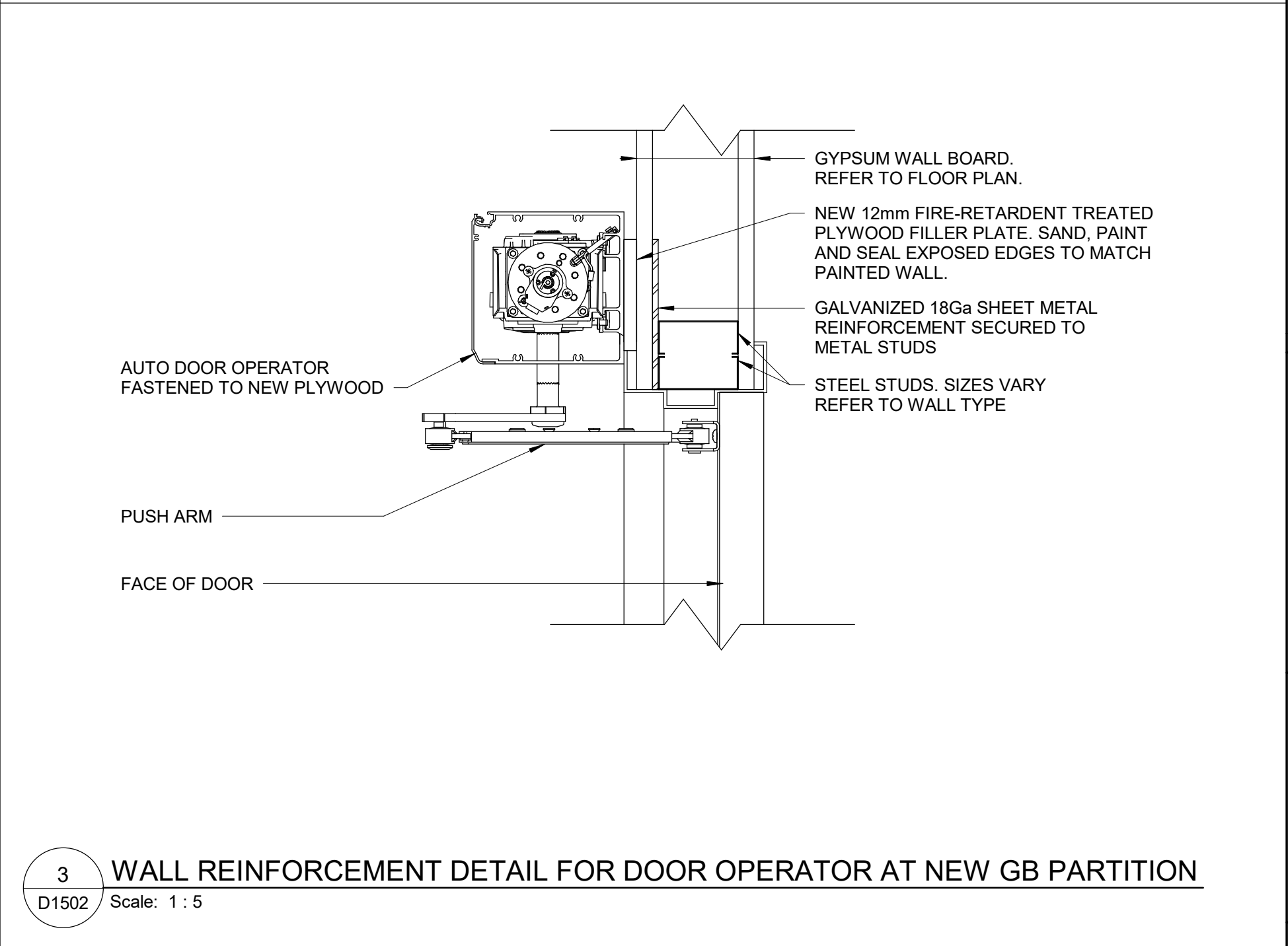
7 WALL REINFORCEMENT DETAIL FOR DOOR OPERATOR AT EXISTING GB PARTITION
D1502 Scale: 1 : 5



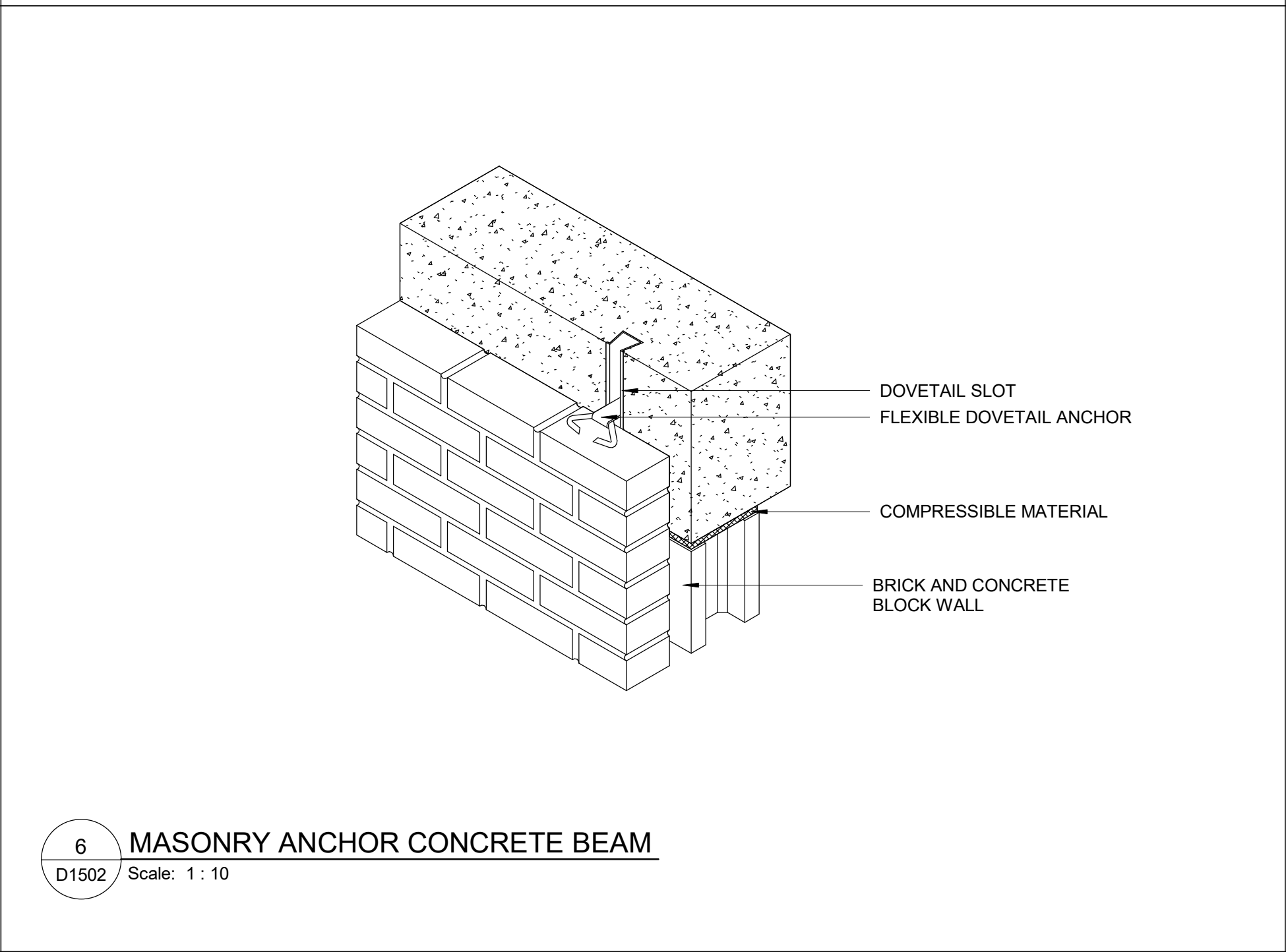
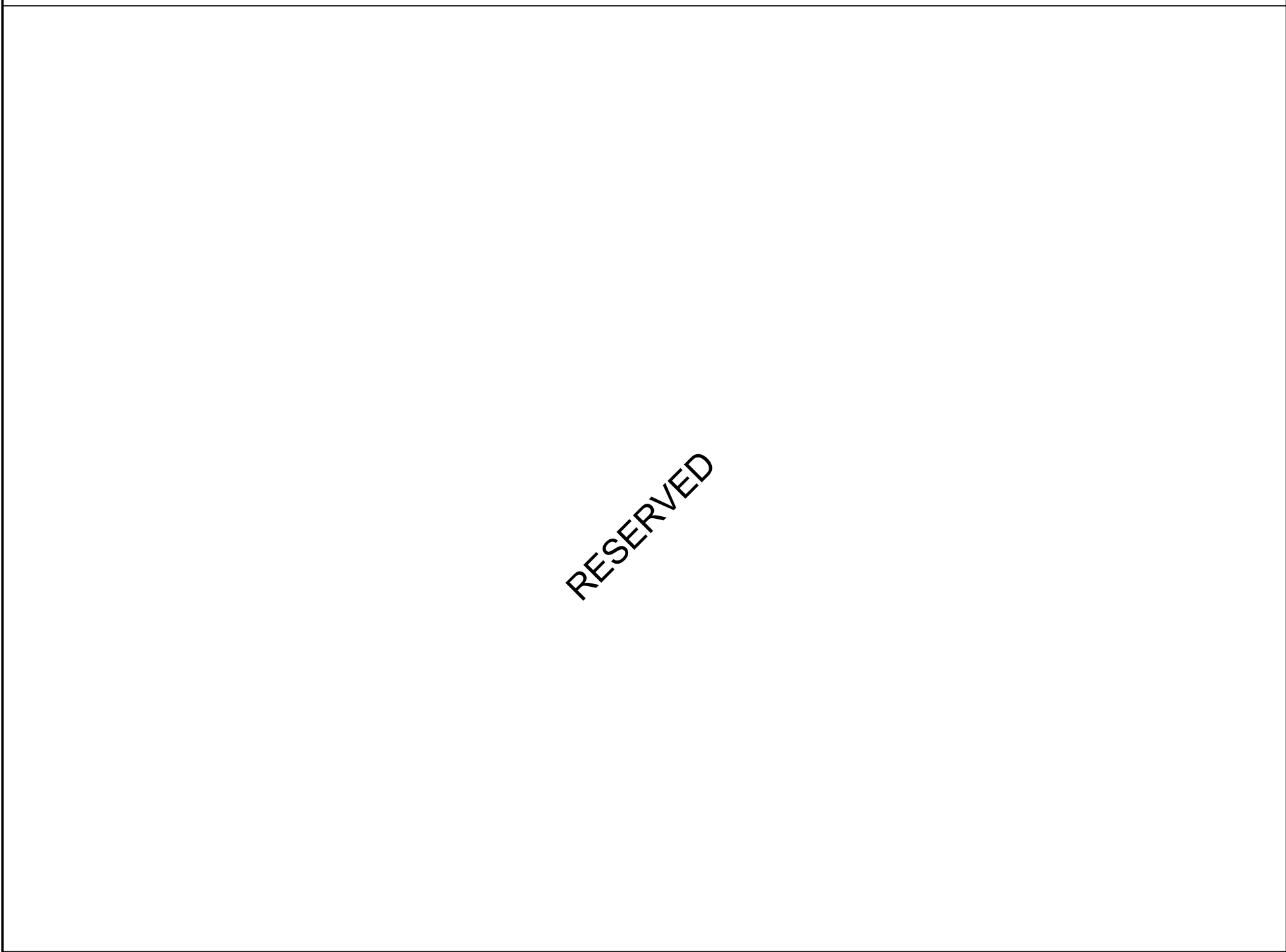
2 CONCRETE BLOCK TO CONCRETE METAL DECK
D1502 Scale: 1 : 10



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



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



6 MASONRY ANCHOR CONCRETE BEAM
D1502 Scale: 1 : 10

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ACCESSIBILITY UPGRADES

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY:
A. BOYNARIAN

PROJECT MGR:
F. BOLOURIAN

CHECKED BY:
K. TILAHUN

APPROVED BY:
E. FENUITA

SHEET TITLE

MISCELLANEOUS
DETAILS -02

SHEET NUMBER

D1502

ISSUE

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PROJECT ADDRESS

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DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUTA

SHEET TITLE
ELEVAOTOR DETAILS

SHEET NUMBER D1601	ISSUE A
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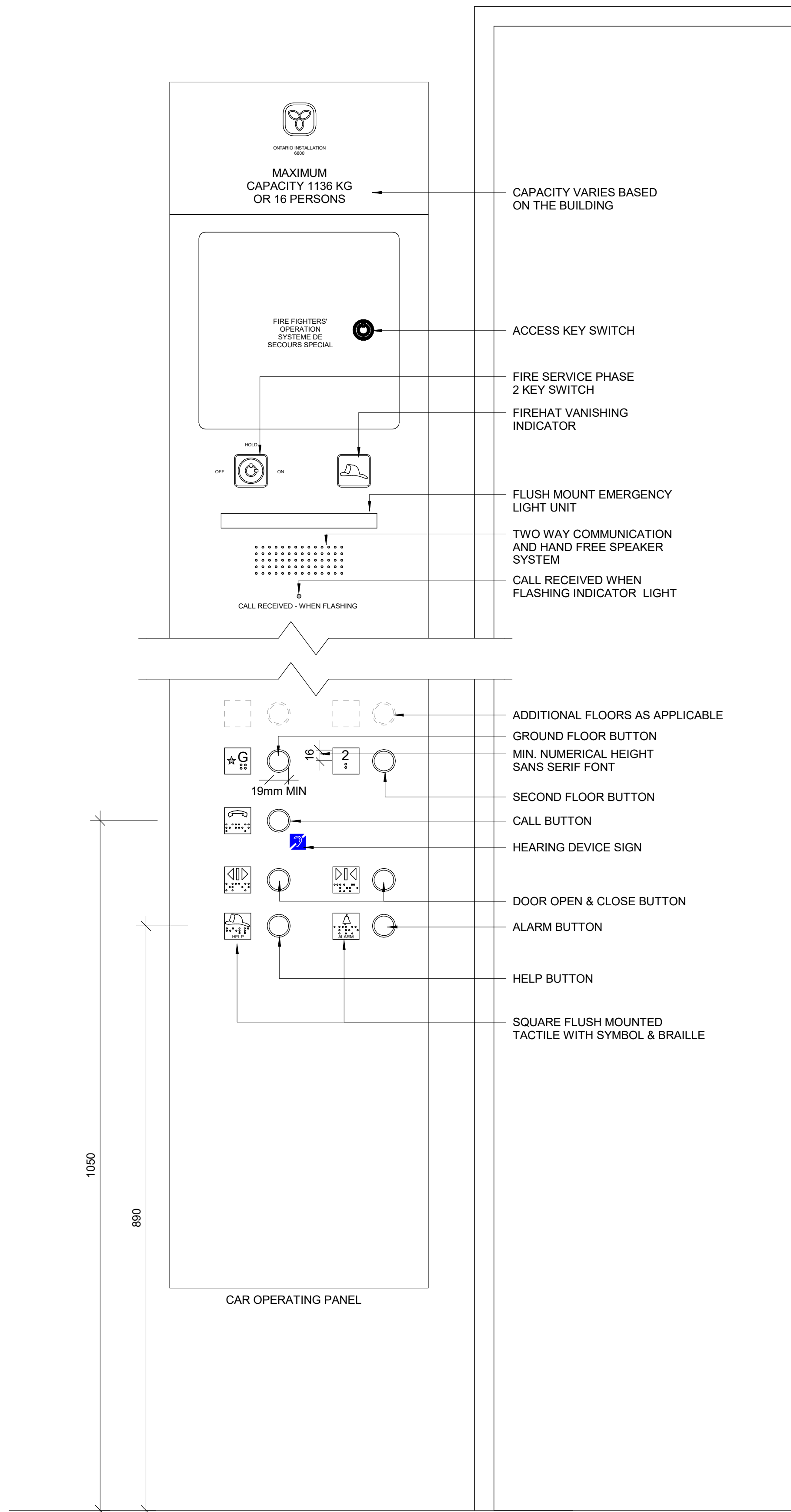
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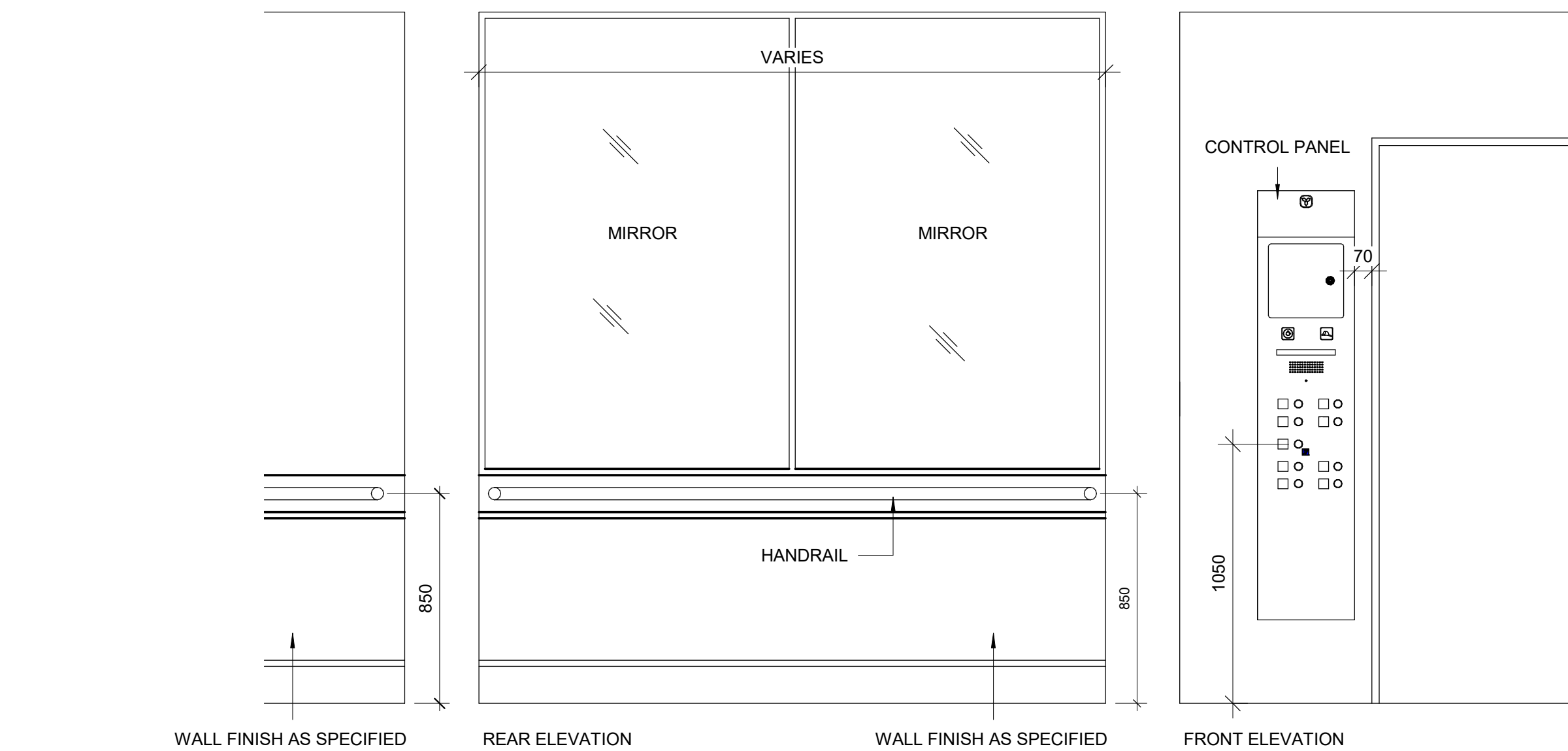
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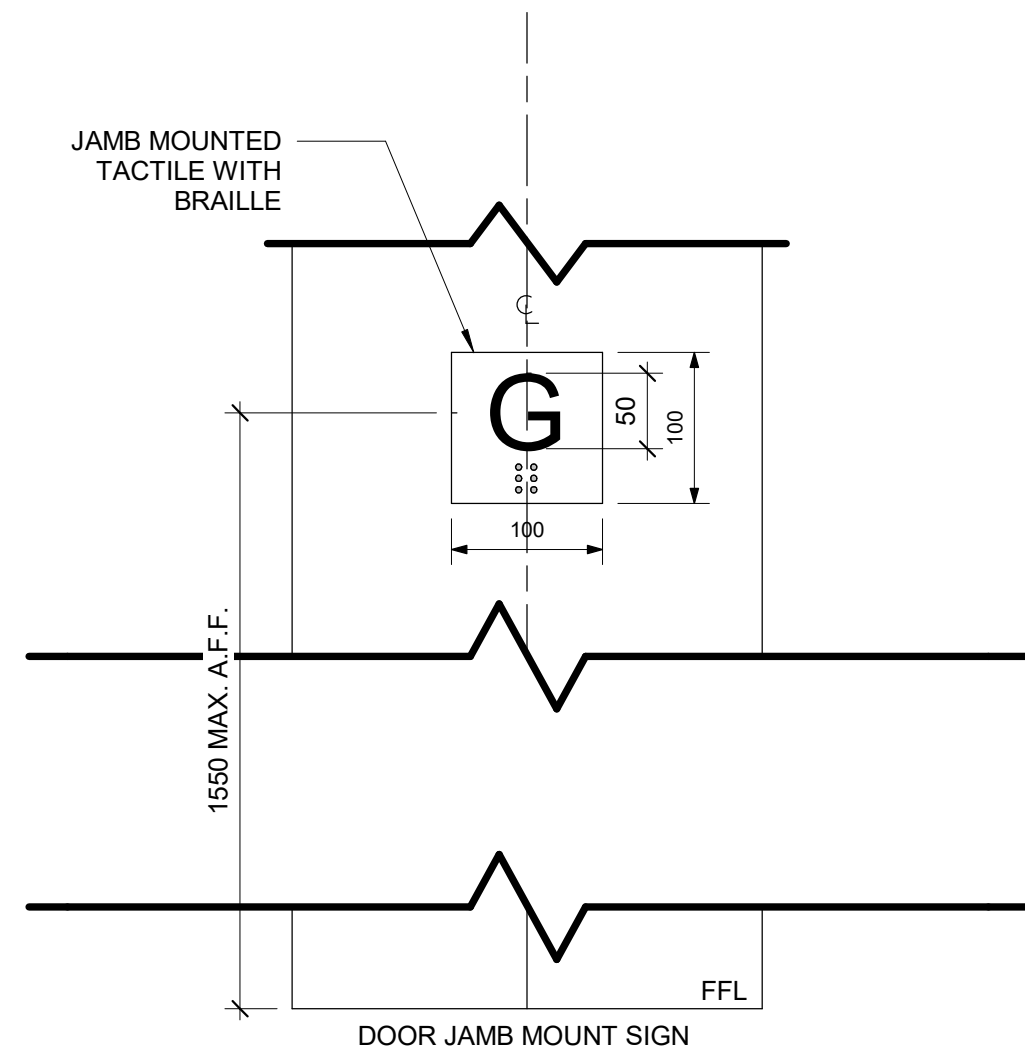
1 INTERIOR ELEVATOR CONTROLS
D1602 Scale: 1 : 5



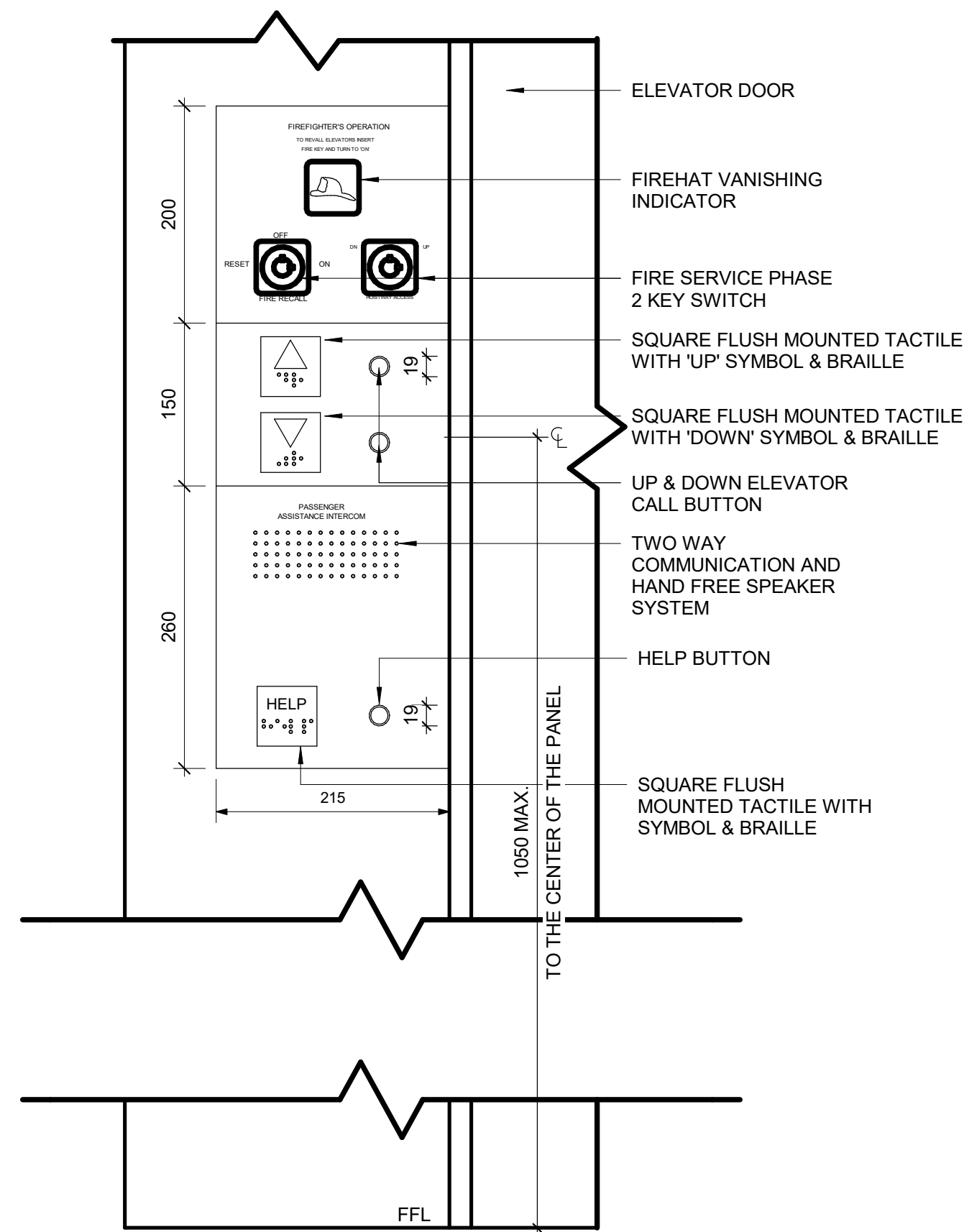
2 ELEVATOR INTERIOR ELEVATIONS
D1602 Scale: 1 : 20



3 TACTILE FLOOR MARKER
D1602 Scale: 1 : 5



4 ELEVATOR EXTERIOR PANEL ELEVATION
D1602 Scale: 1 : 5



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CHECKED BY:
K. TILAHUN

PROJECT MGR:
F. BOLOURIAN

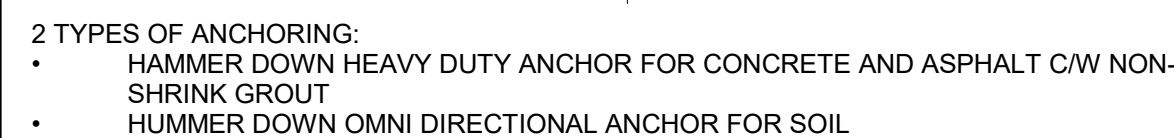
APPROVED BY:
E. FENUITA

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

SHEET NUMBER
D1602

ISSUE
A

SCALE CHECK
1"=10mm



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

SHEET TITLE
ACCESSIBLE PARKING
AND SITE MARKING
DETAILS

SHEET NUMBER	ISSUE
D1701	A

1 PAVER
D1702 Scale: 1 : 10

2 DEPRESSION CURB
D1702 Scale: 1 : 10

3 CURB DETAIL AT LANDSCAPED AREA

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

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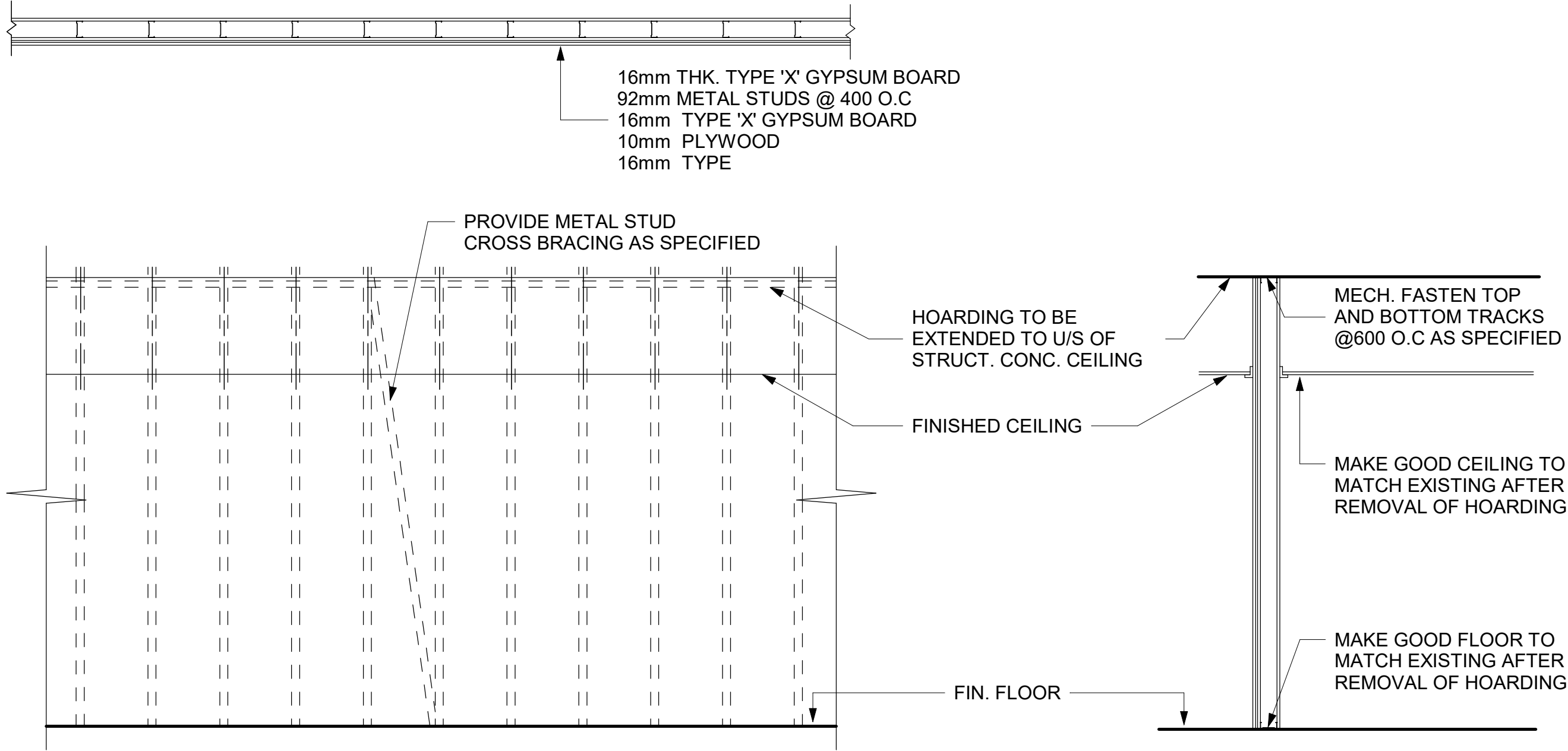
DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
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PROJECT MGR: F.BOLOURIAN	APPROVED BY: E. FENUTA
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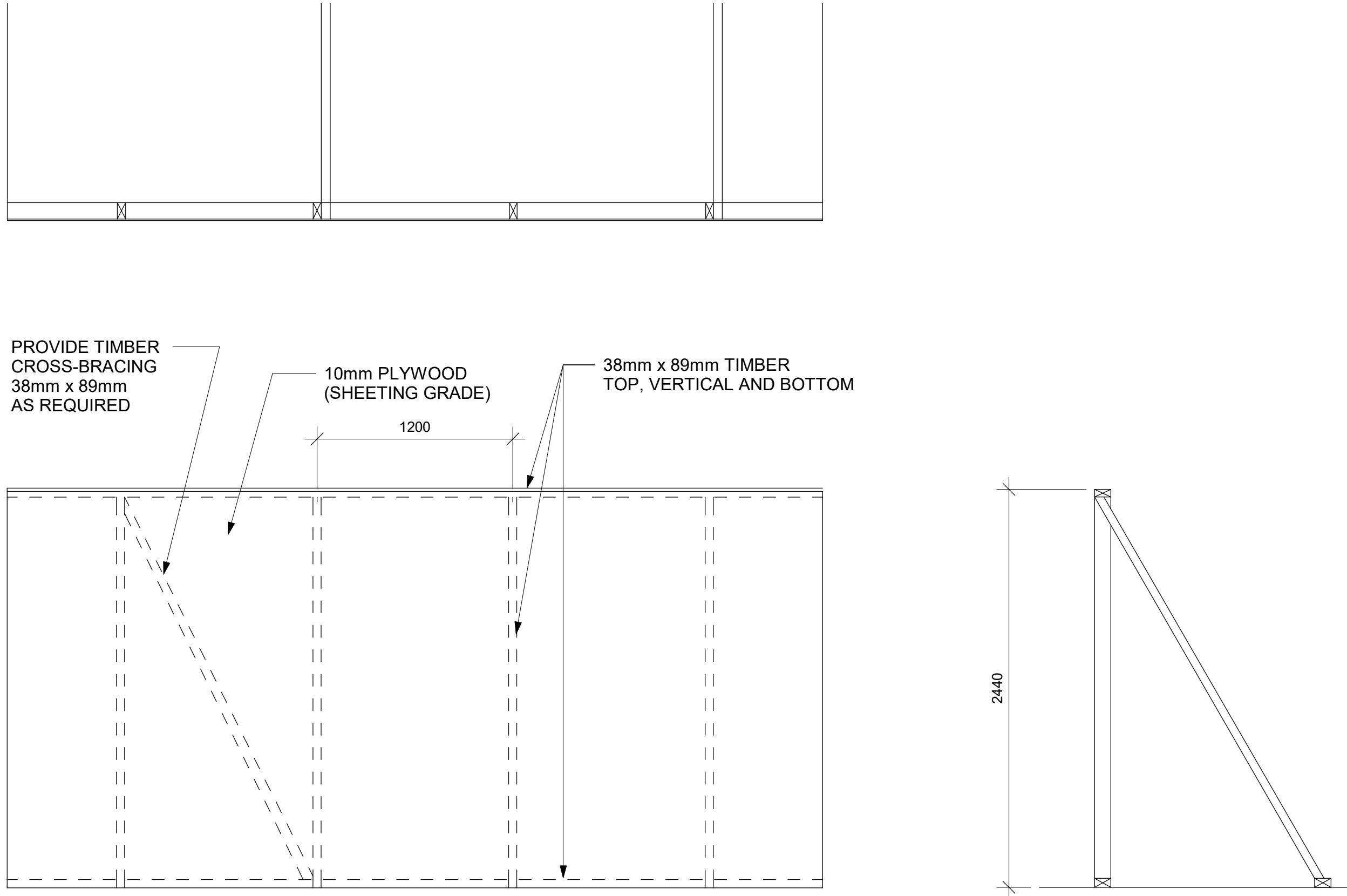
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CURB DETAILS

SHEET NUMBER
D1702

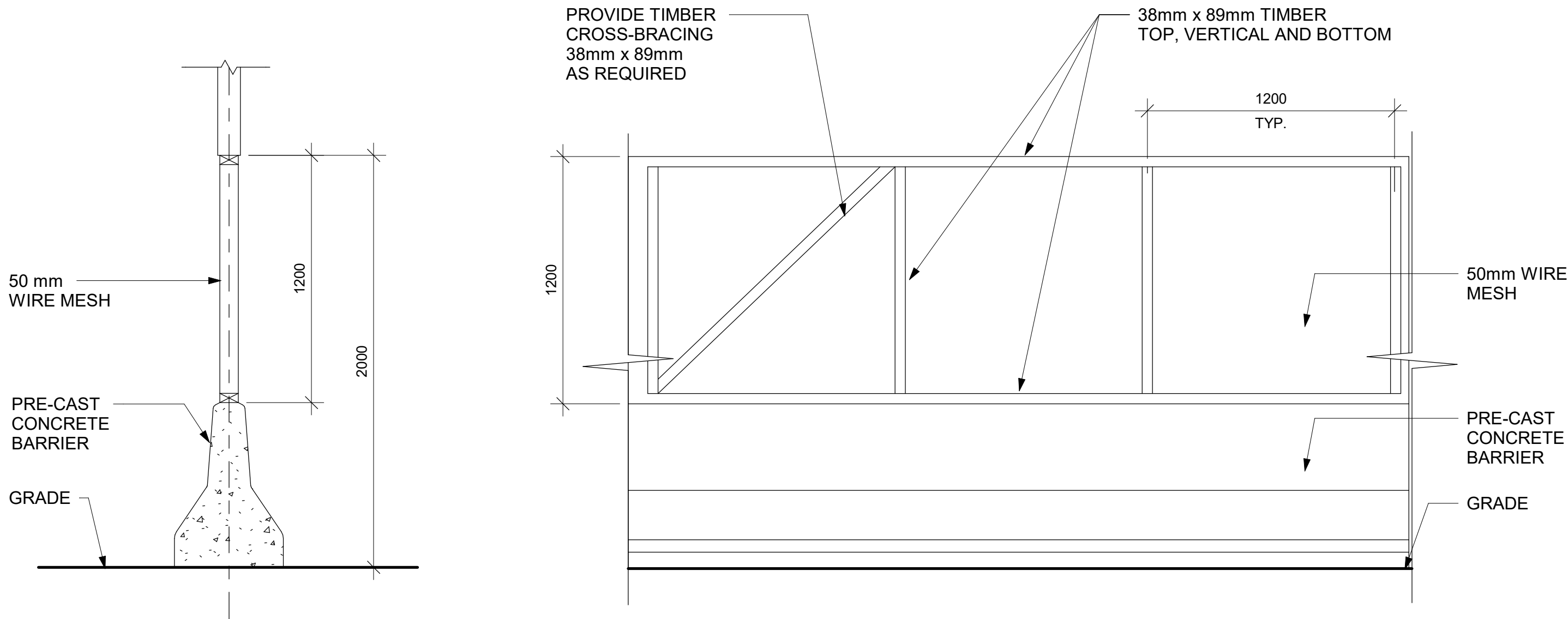
ISSUE
A



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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PROJECT MGR:
F. BOLOURIAN
CHECKED BY:
K. TILAHUN
APPROVED BY:
E. FENUTA

SHEET TITLE
HOARDING DETAILS

SHEET NUMBER
D1801
ISSUE
A

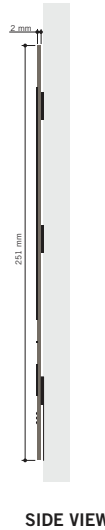
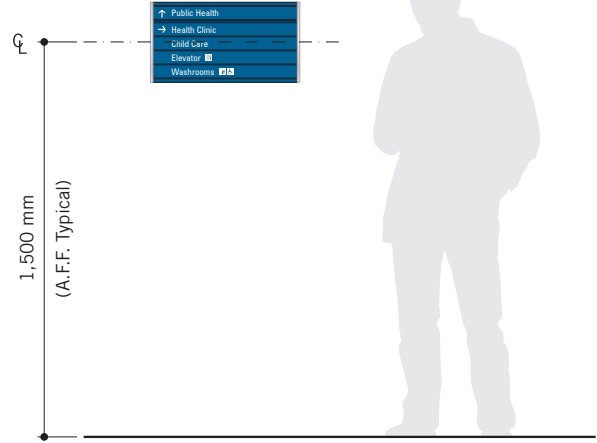
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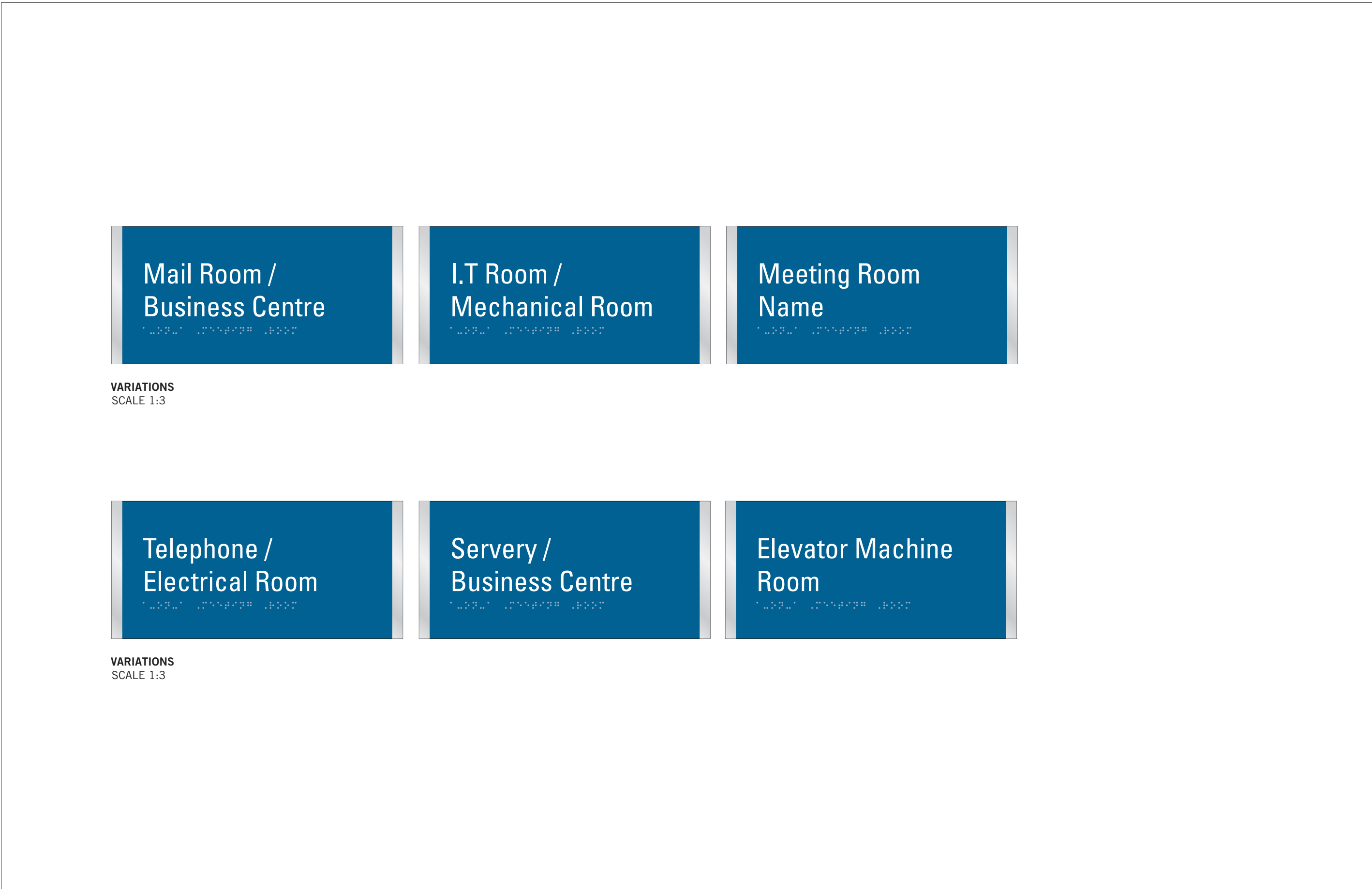
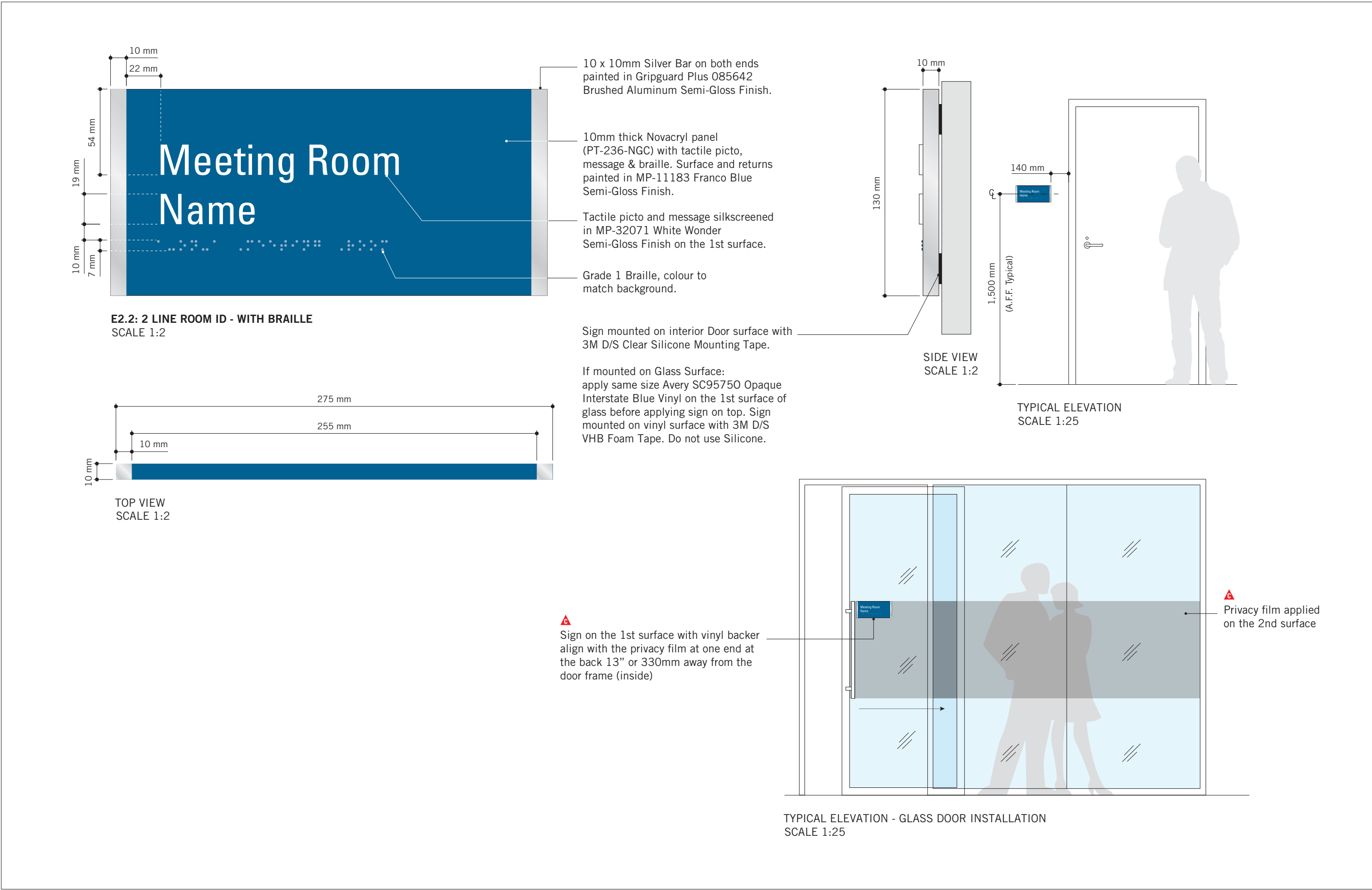
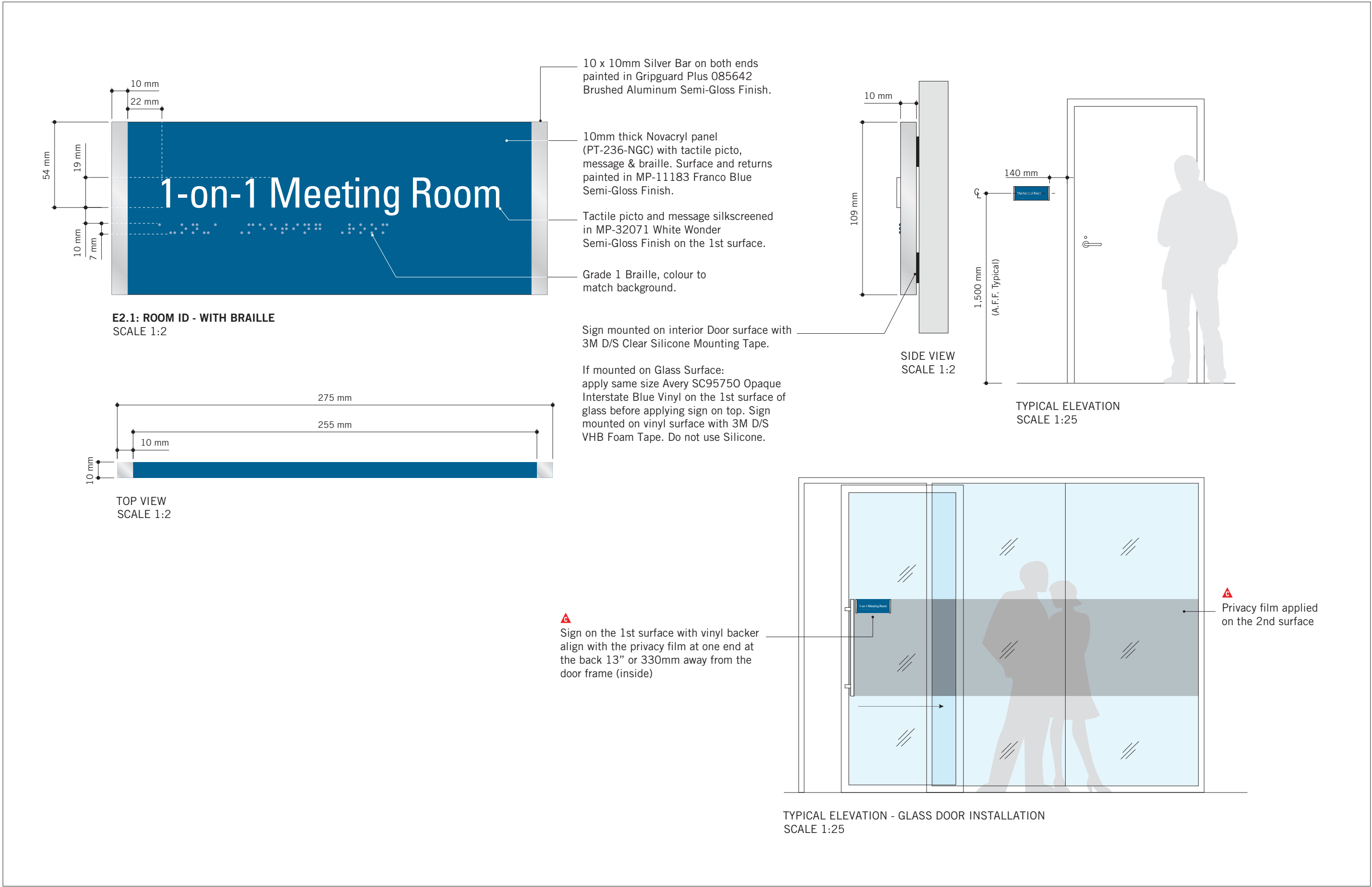
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TOP VIEW

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



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



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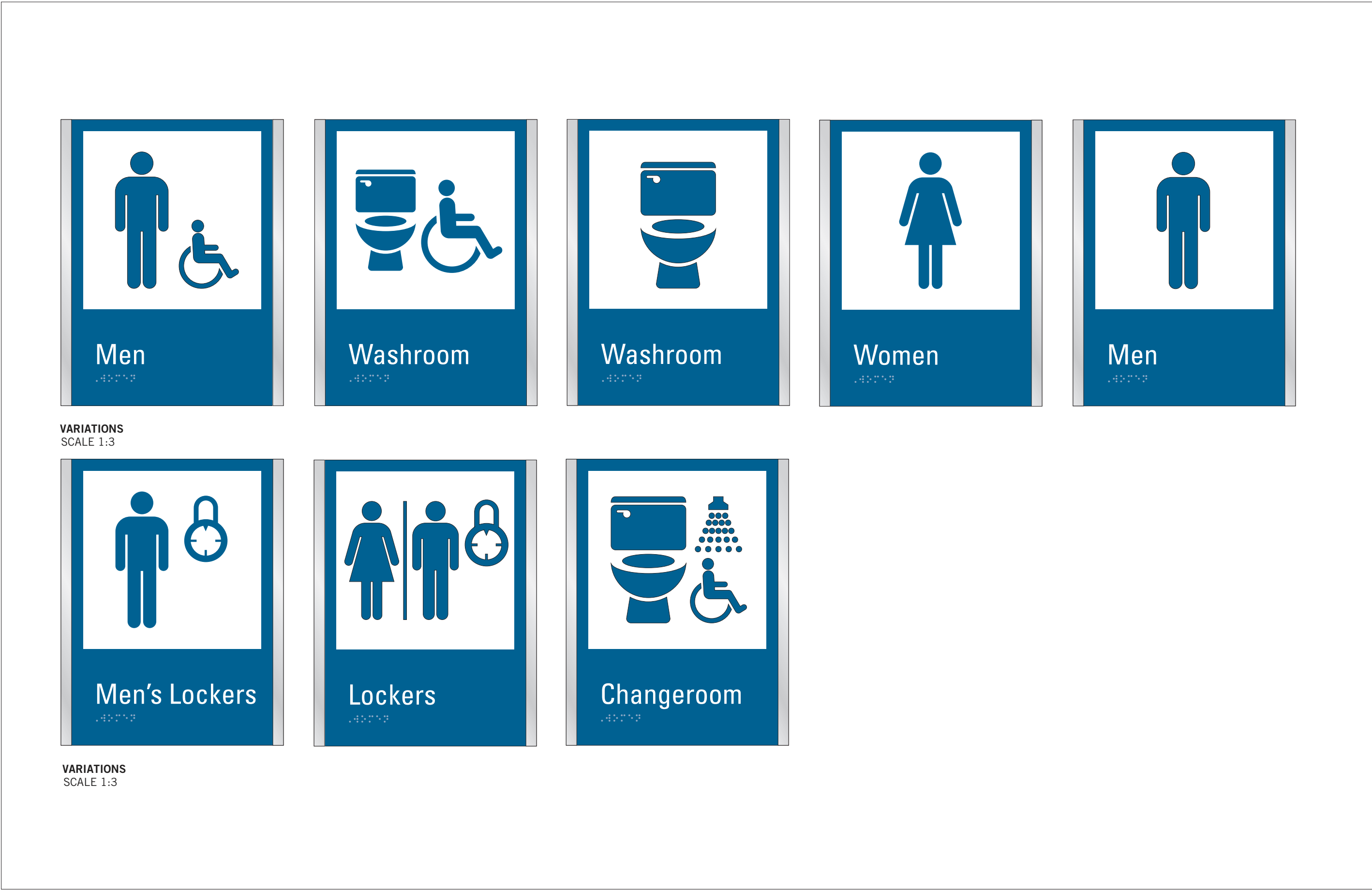
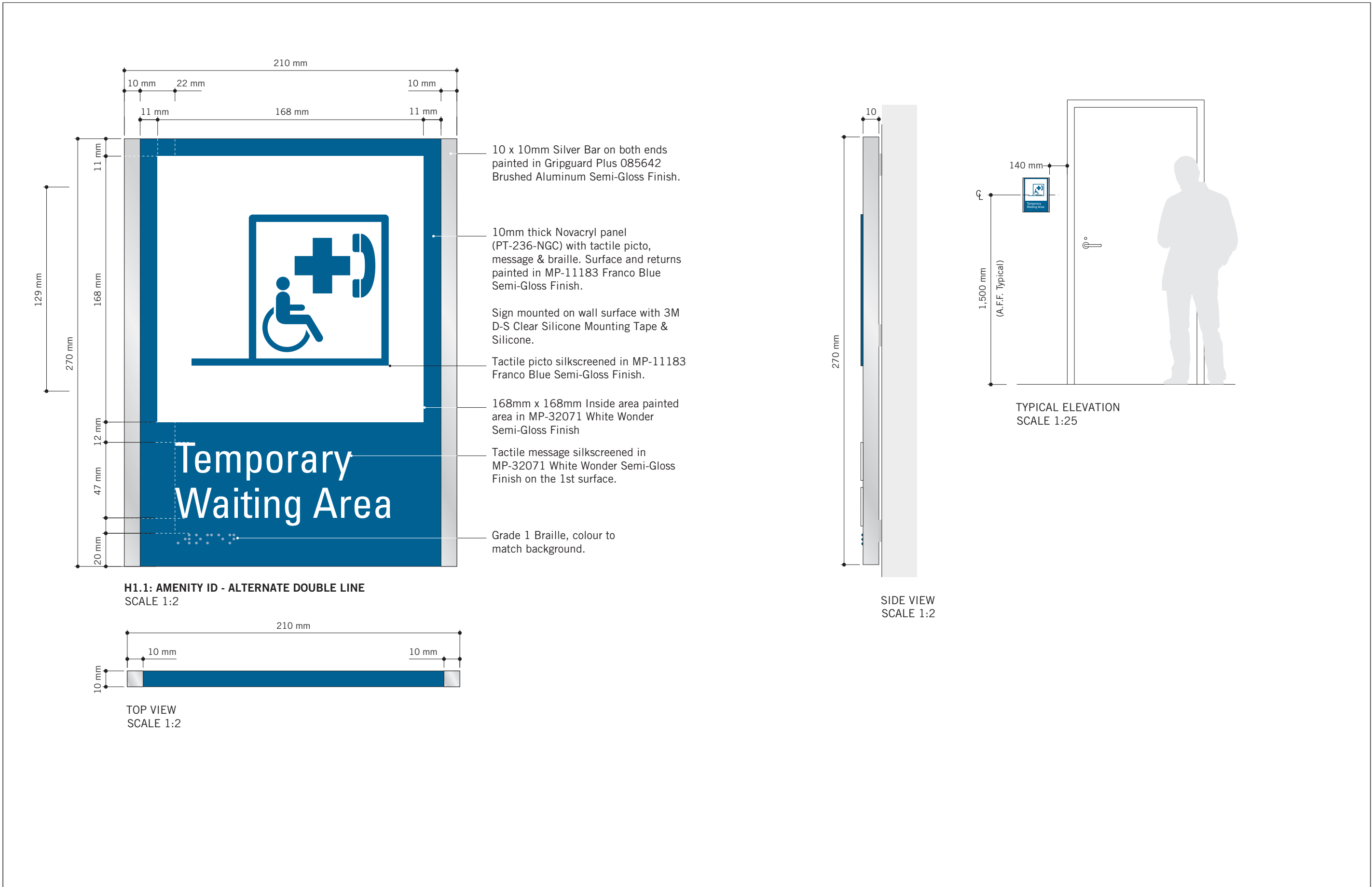
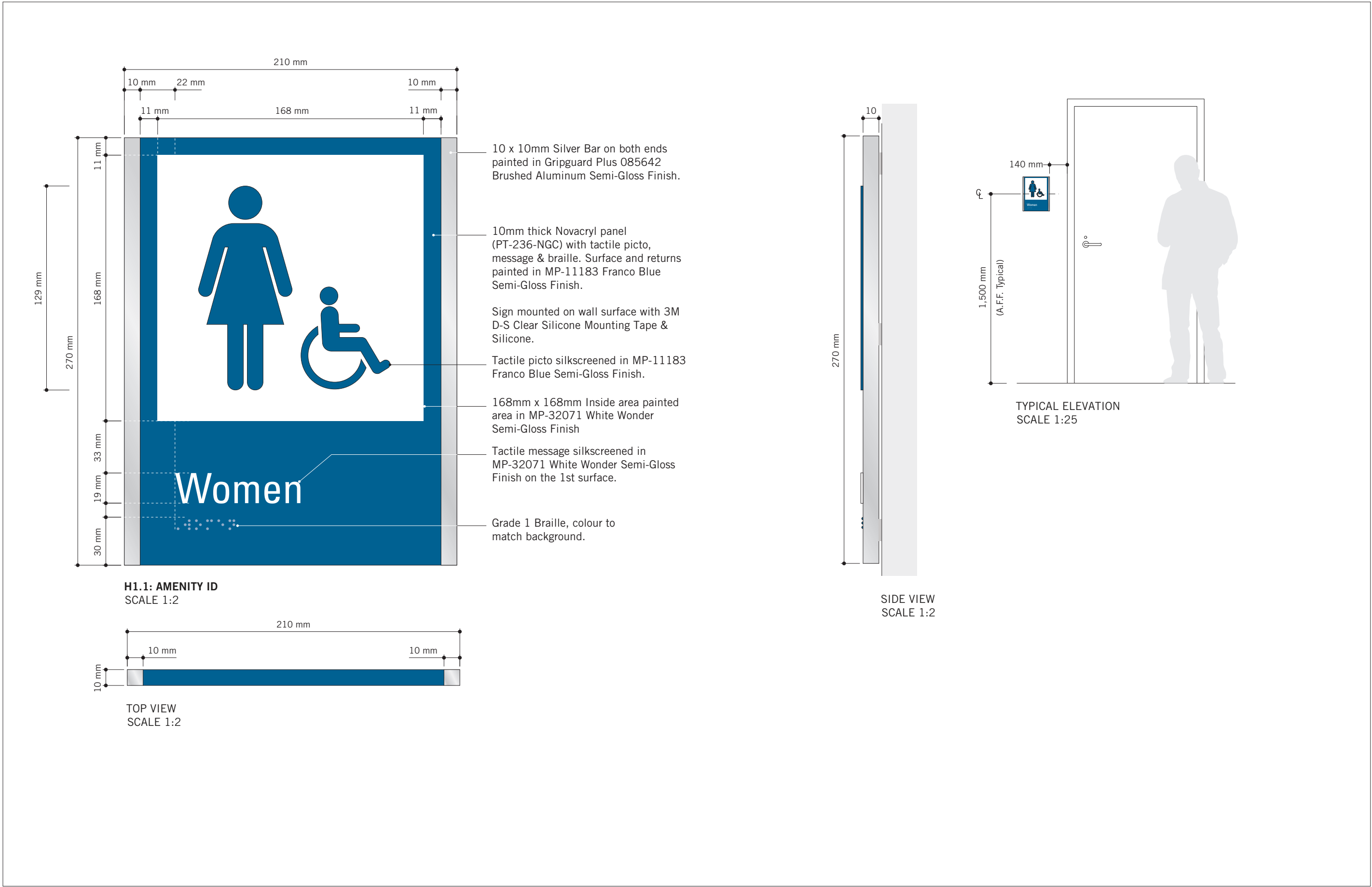
PROJECT TITLE
CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS
GROUP 05 BUILDINGS

PROJECT NO: 9119 - 19 - 0162 / Arcadis 30279056	
DRAWN BY: M.LOW	CHECKED BY: C.D. SCHNOBB
PROJECT MGR: R. DALY	APPROVED BY:

SHEET TITLE
SIGNAGE & WAYFINDING
DETAILS
E2: ROOM ID

SHEET NUMBER	ISSUE
D1903	A



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PROJECT ADDRESS
GROUP 05 BUILDINGS

PROJECT NO:
9119 - 19 - 0162 / Arcadis 30279056

DRAWN BY:
M.LOW

CHECKED BY:
C.D. SCHNOBB

PROJECT MGR:
R. DALY

APPROVED BY:

SHEET TITLE
SIGNAGE & WAYFINDING
DETAILS

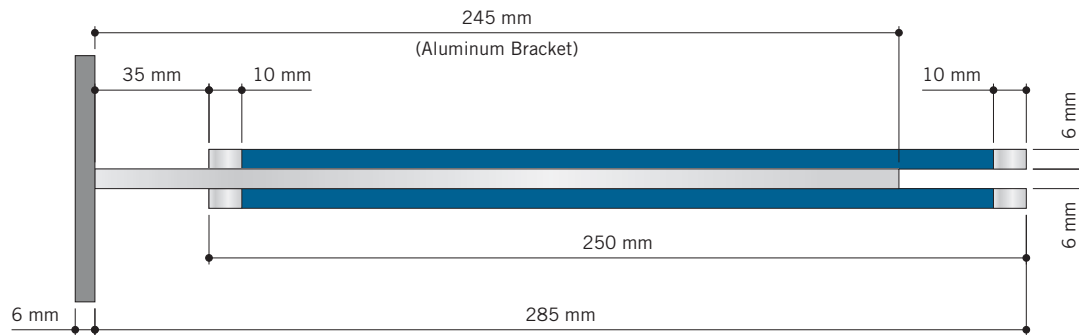
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SHEET NUMBER
D1905

ISSUE
A



H2.1: PROJECTING AMENITY ID
SCALE 1:2



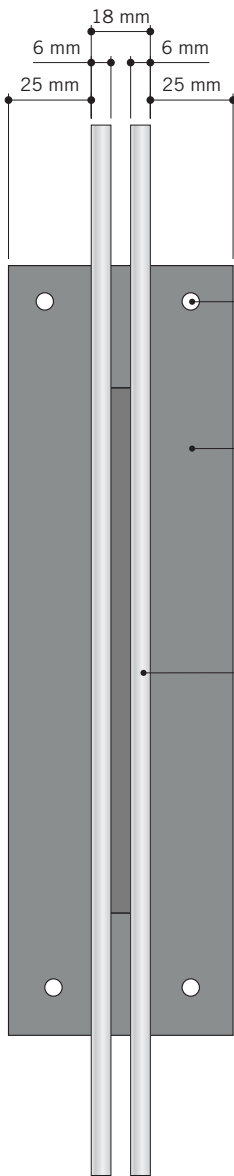
TOP VIEW
SCALE 1:2

(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



TYPICAL ELEVATION
SCALE 1:25



VARIATIONS
SCALE 1:4



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PROJECT ADDRESS
GROUP 05 BUILDINGS

PROJECT NO:
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M.LOW

CHECKED BY:
C.D. SCHNOBB

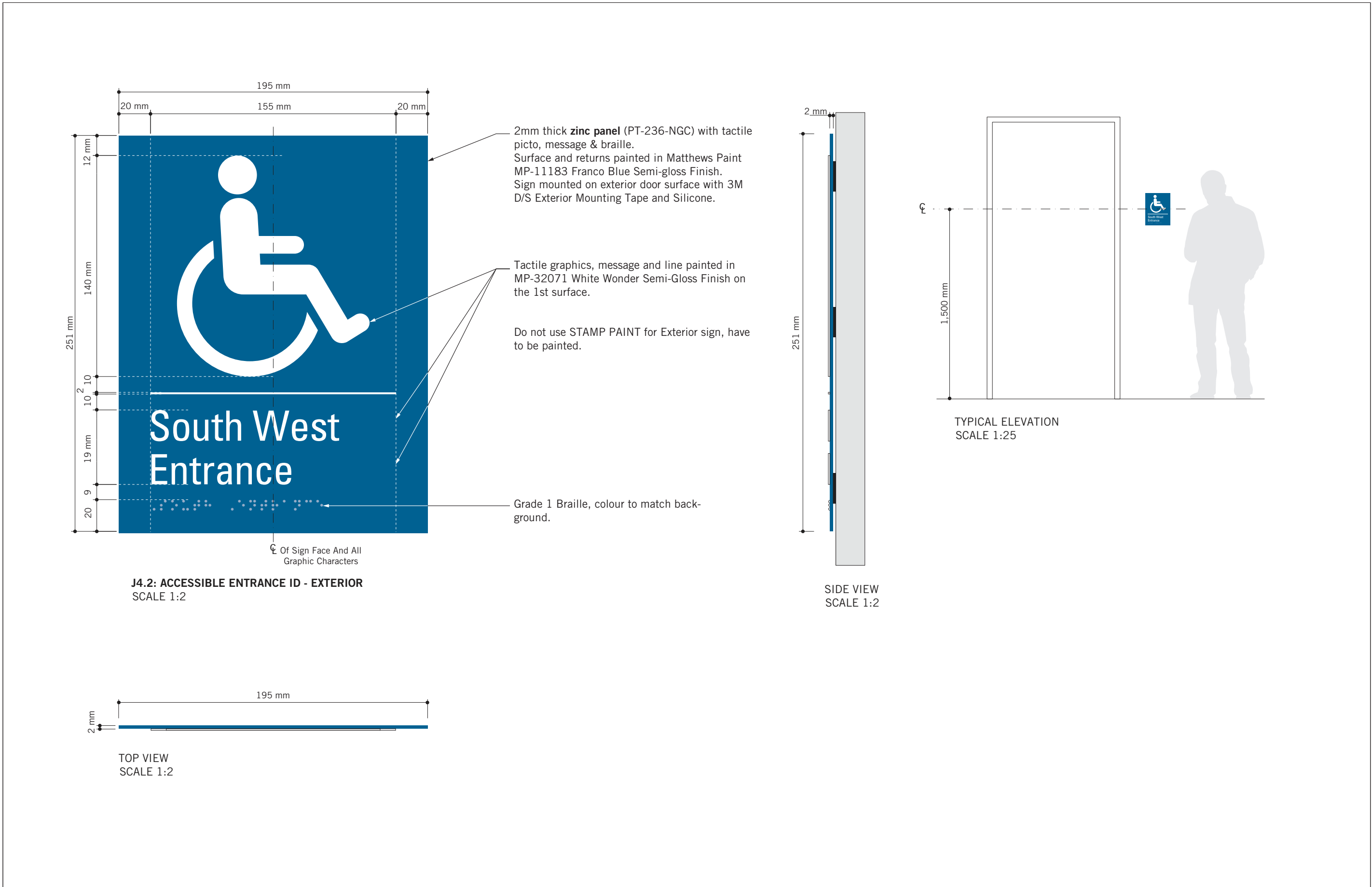
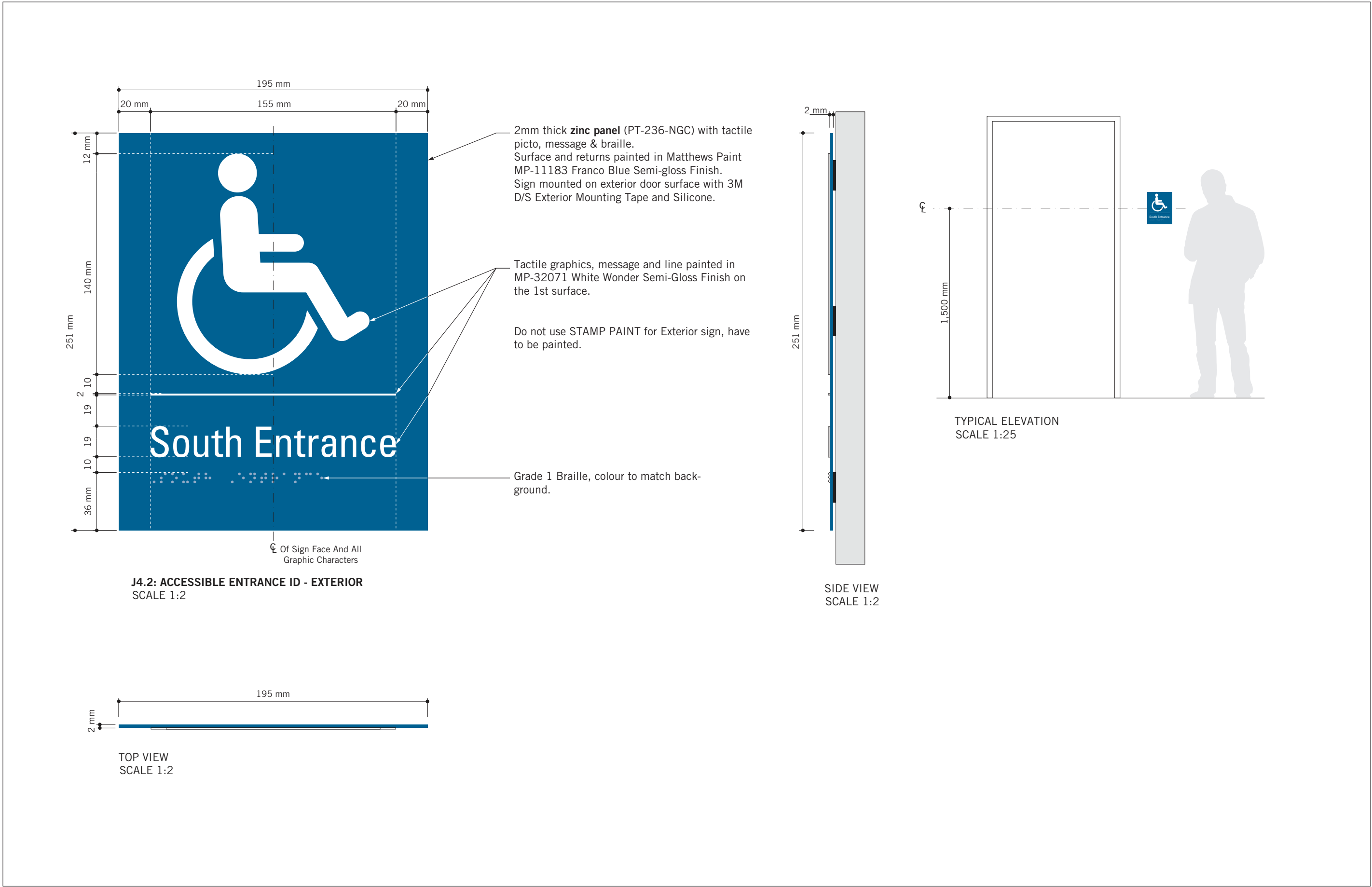
PROJECT MGR:
R. DALY

APPROVED BY:

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

SHEET NUMBER
D1906

ISSUE
A



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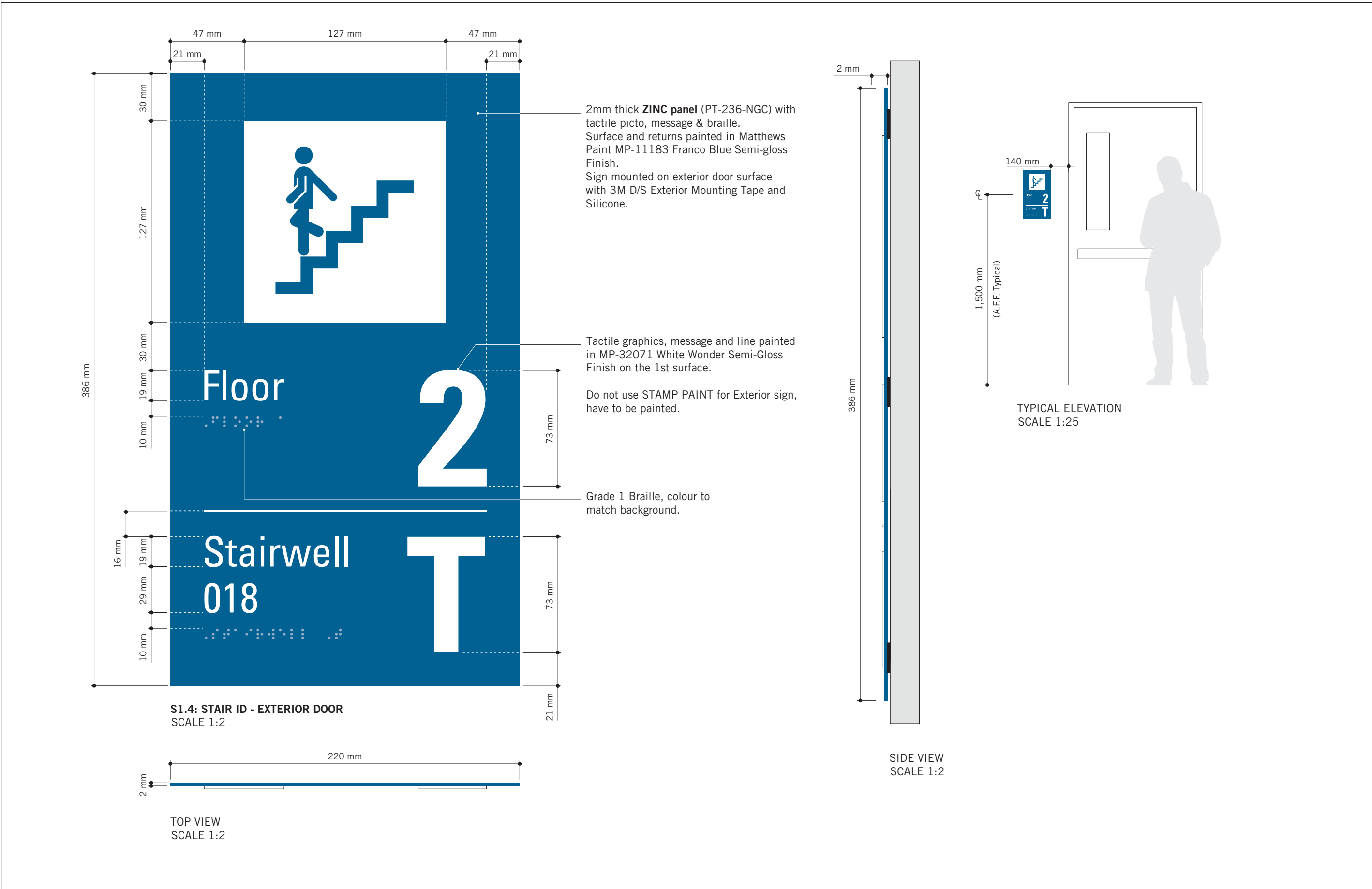
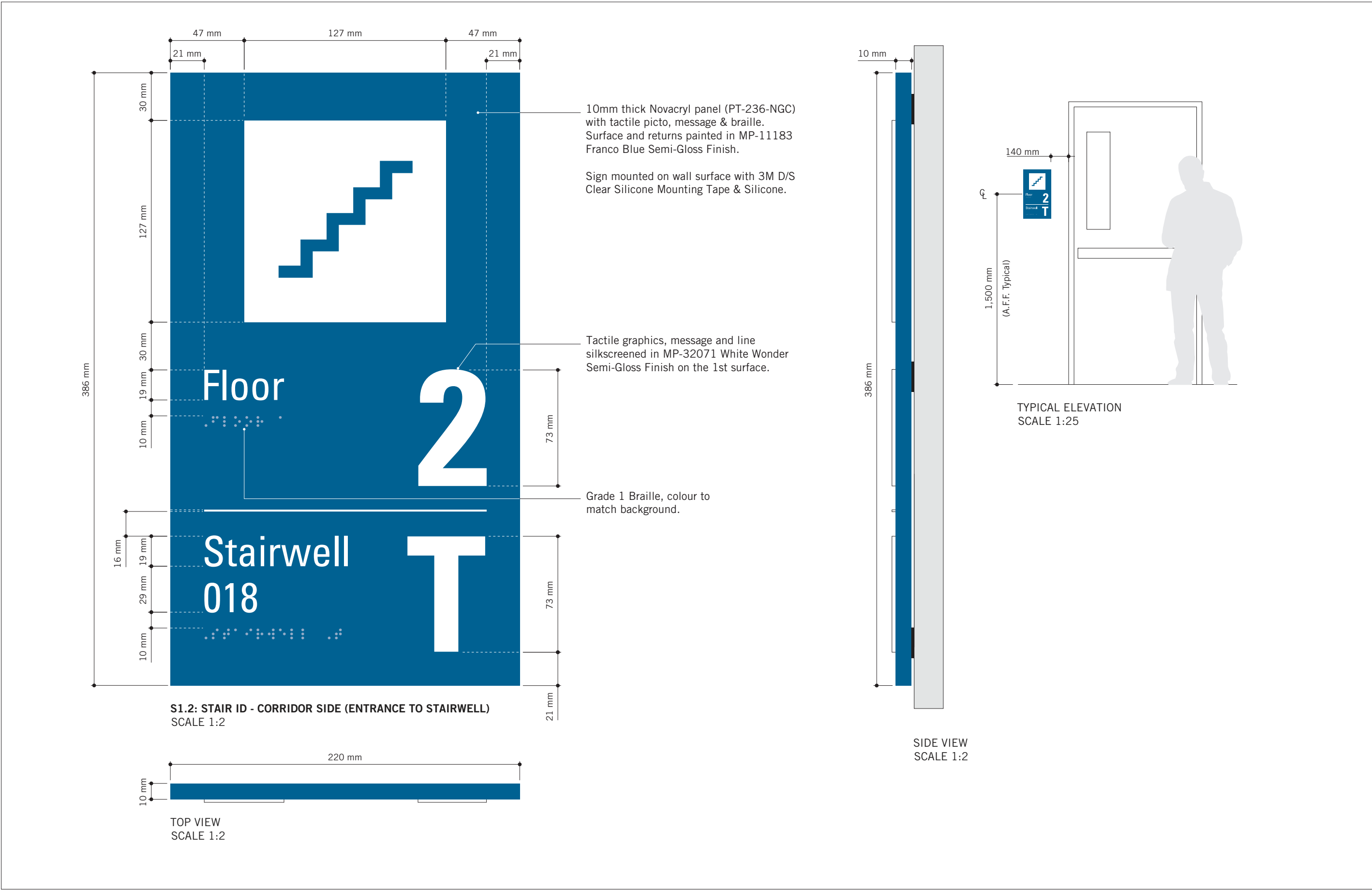
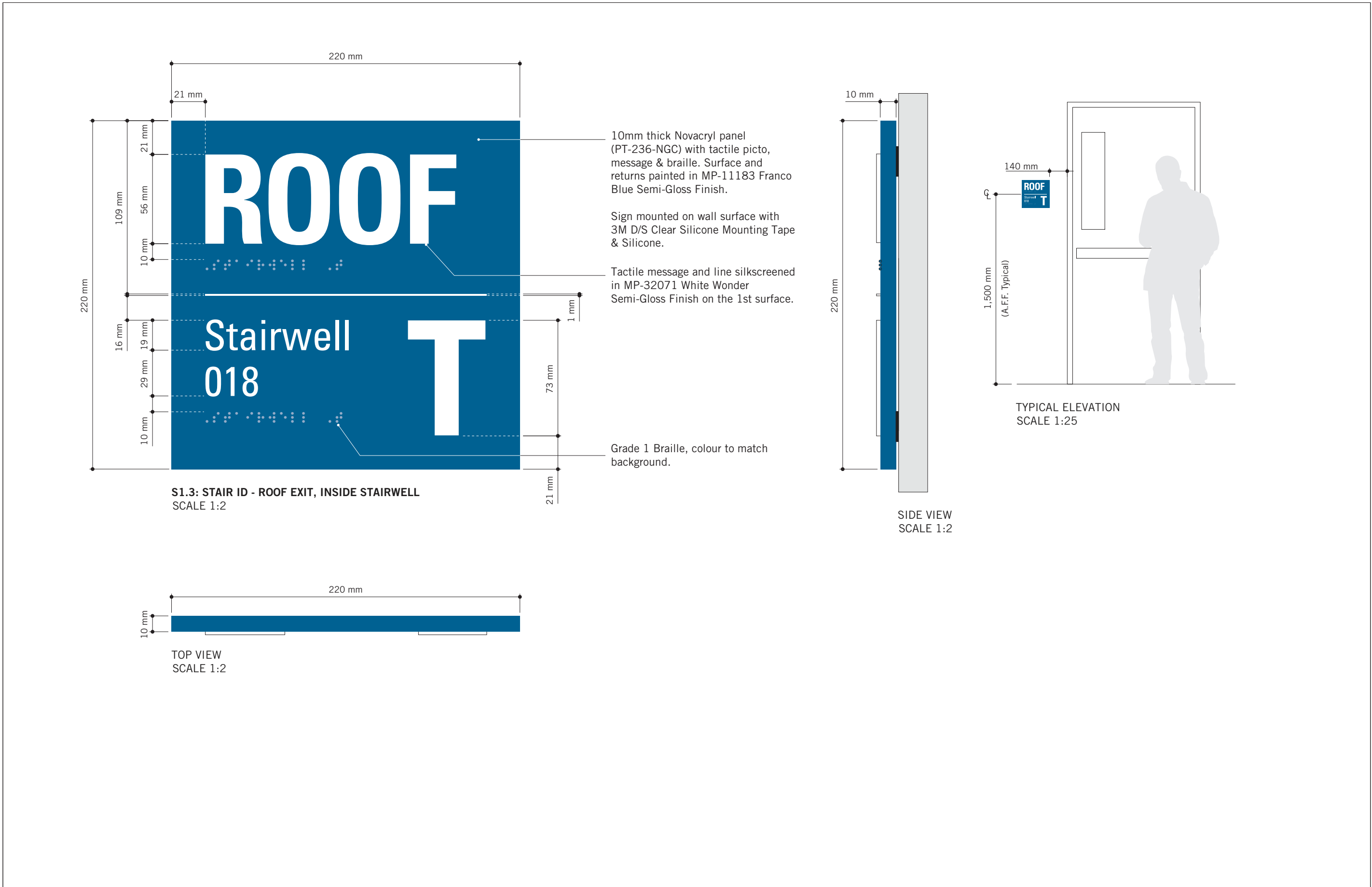
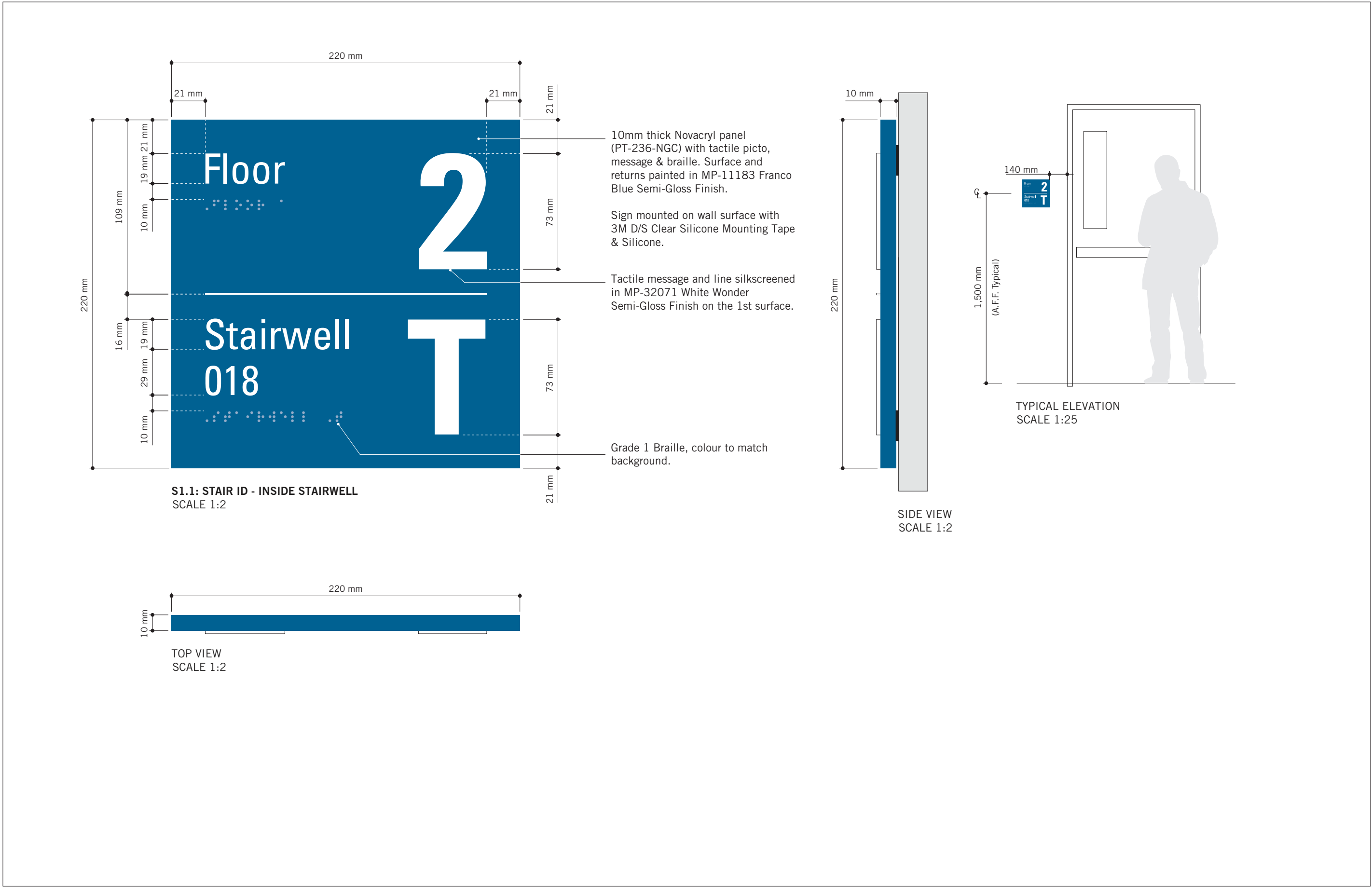
PROJECT ADDRESS
GROUP 05 BUILDINGS

PROJECT NO:
9119 – 19 – 0162 / Arcadis 30279056

DRAWN BY: M.LOW	CHECKED BY: C.D. SCHNOBB
PROJECT MGR: R. DALY	APPROVED BY:


SHEET TITLE
SIGNAGE & WAYFINDING
DETAILS
J4: ACCESSIBLE ENTRANCE

SHEET NUMBER D1907	ISSUE A
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ISSUES

No.	DESCRIPTION	DATE
A	ISSUED FOR TENDER	2025-04-11

CONSULTANTS

SEAL

PRIME CONSULTANT



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

GROUP 05 BUILDINGS

PROJECT NO:

9119 – 19 – 0162 / Arcadis 30279056

DRAWN BY:

M.LOW

CHECKED BY:

C.D. SCHNOBB

PROJECT MGR:

R. DALY

APPROVED BY:

SHEET TITLE

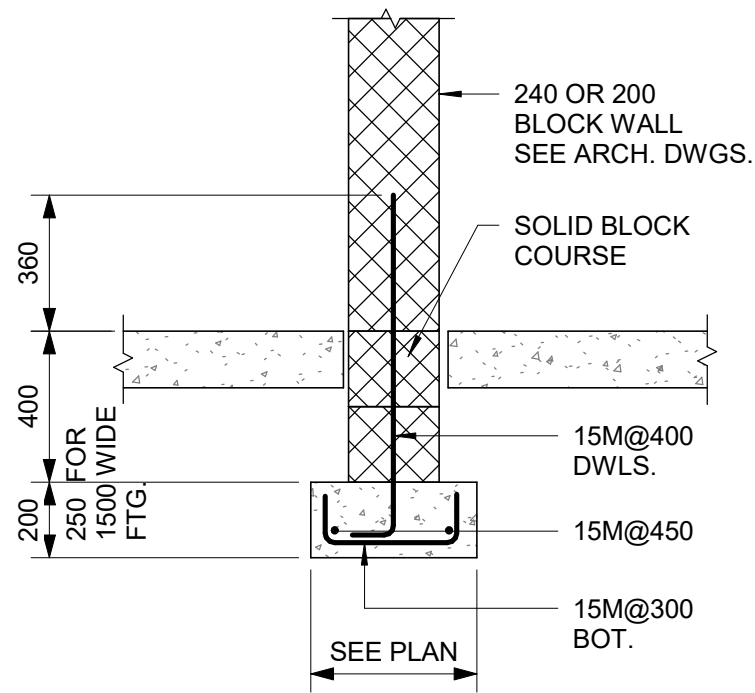
SIGNAGE & WAYFINDING
DETAILS
S1: STAIR ID

SHEET NUMBER

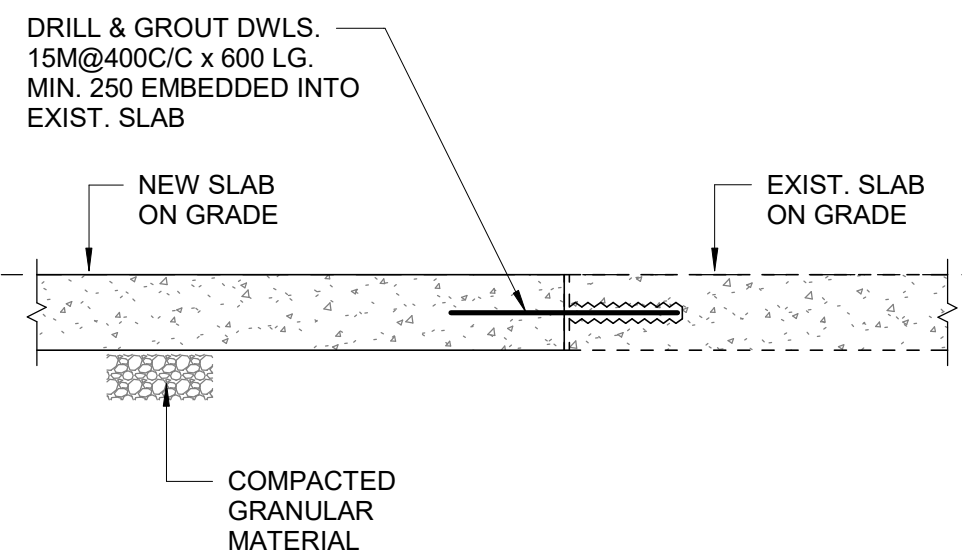
D1908

ISSUE

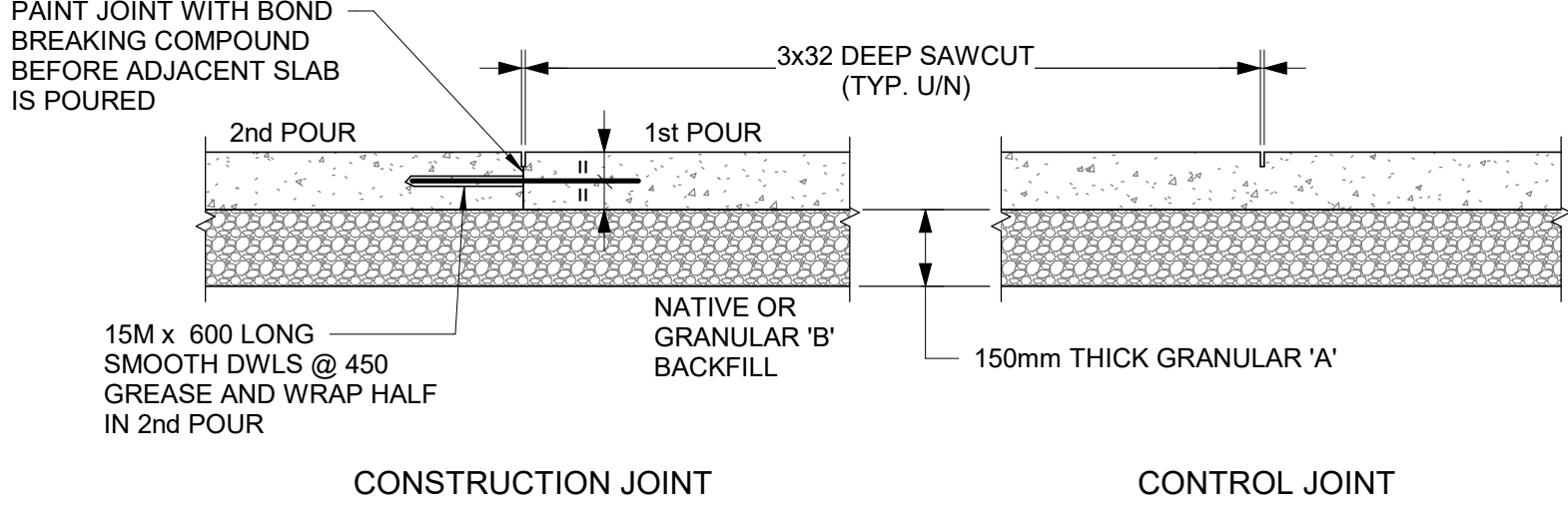
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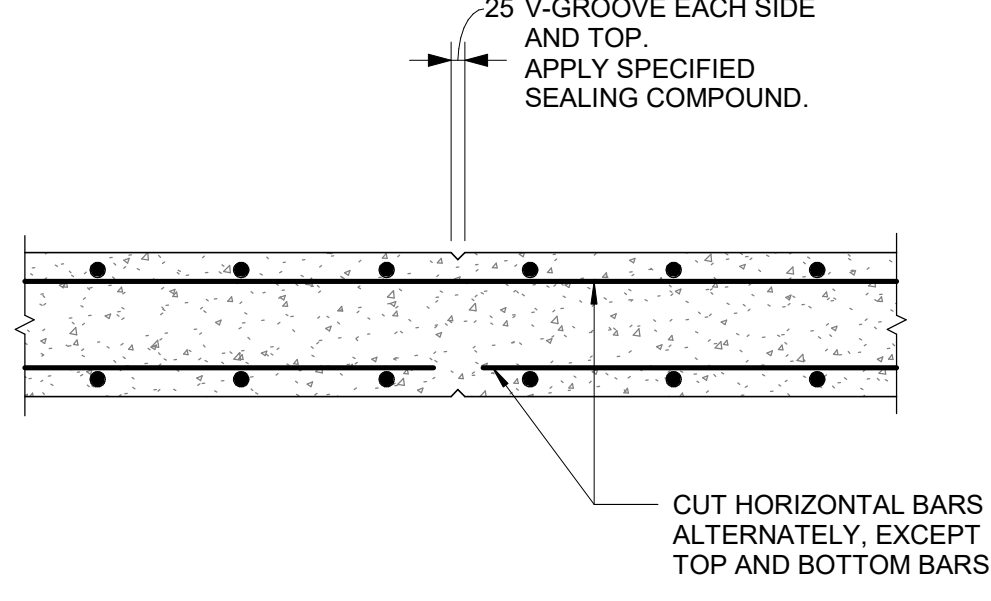
1 INTERIOR FOUNDATION WALL
D2100 Scale: NTS



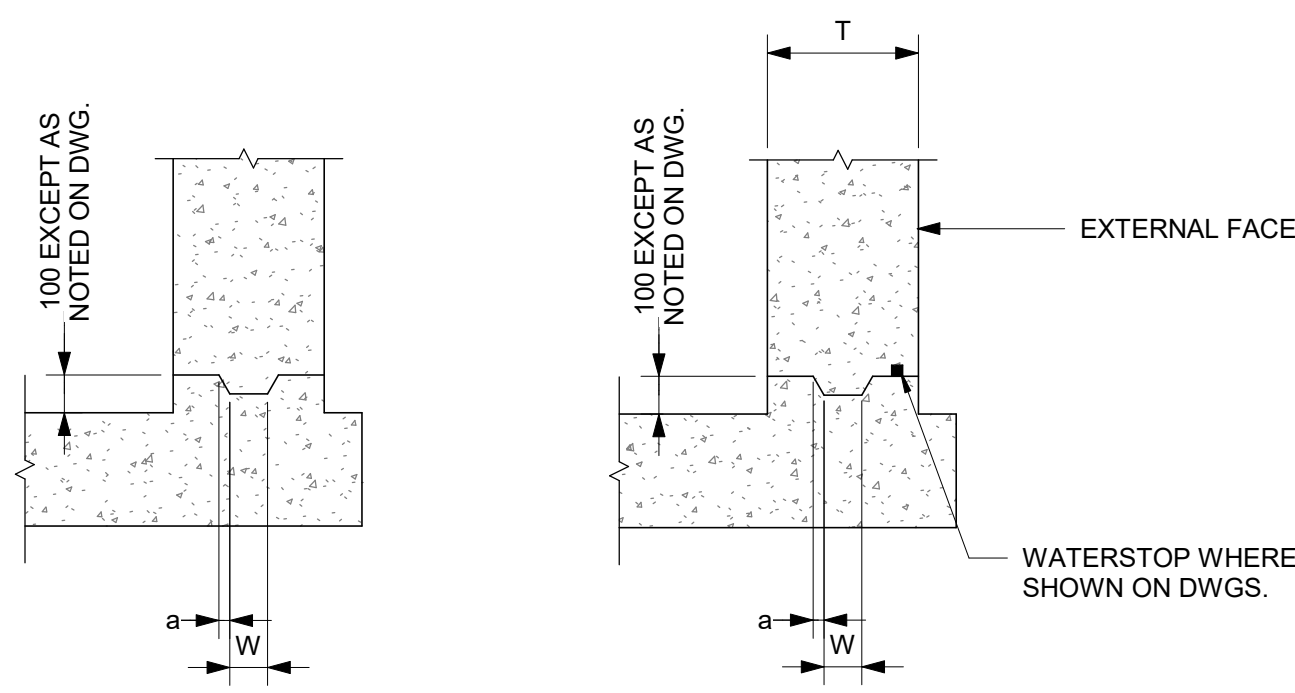
2 NEW SLAB CONNECTION TO EXISTING SLAB
D2100 Scale: NTS



3 SLAB ON GRADE
D2100 Scale: NTS



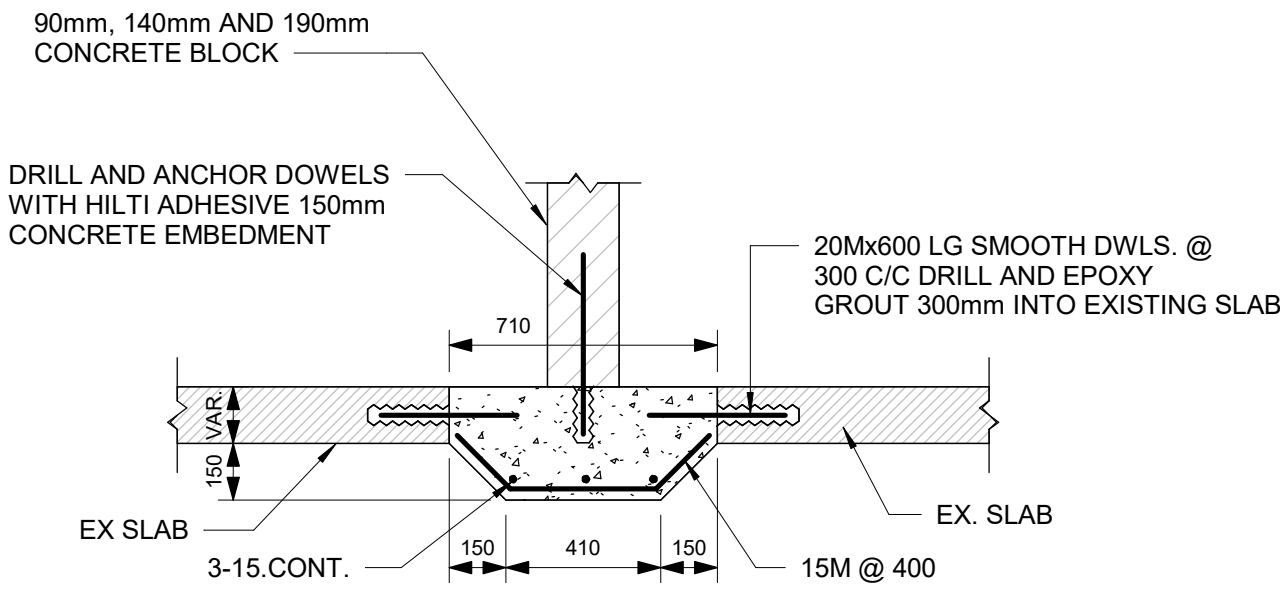
4 RETAINING WALL CONTROL JOINT
D2100 Scale: 1 : 20



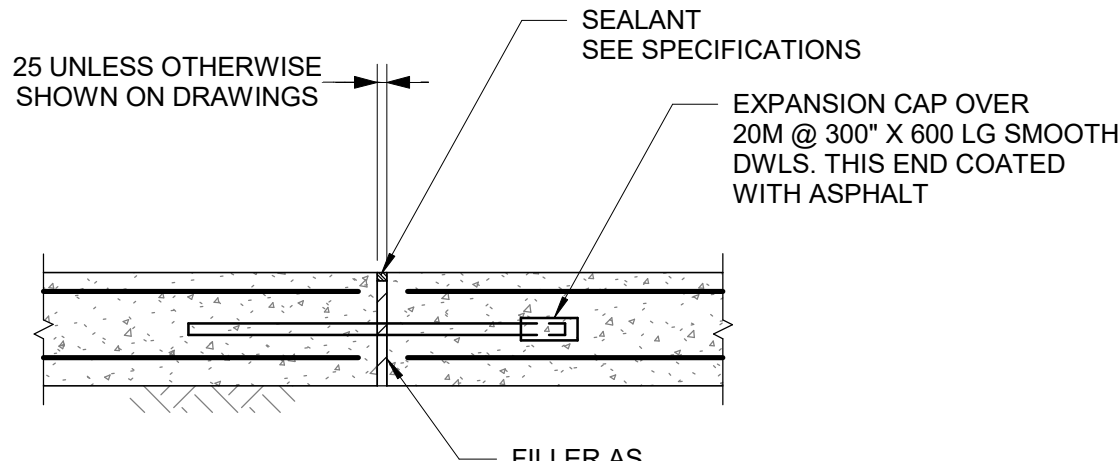
TYPE 1 TYPE 1WS

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

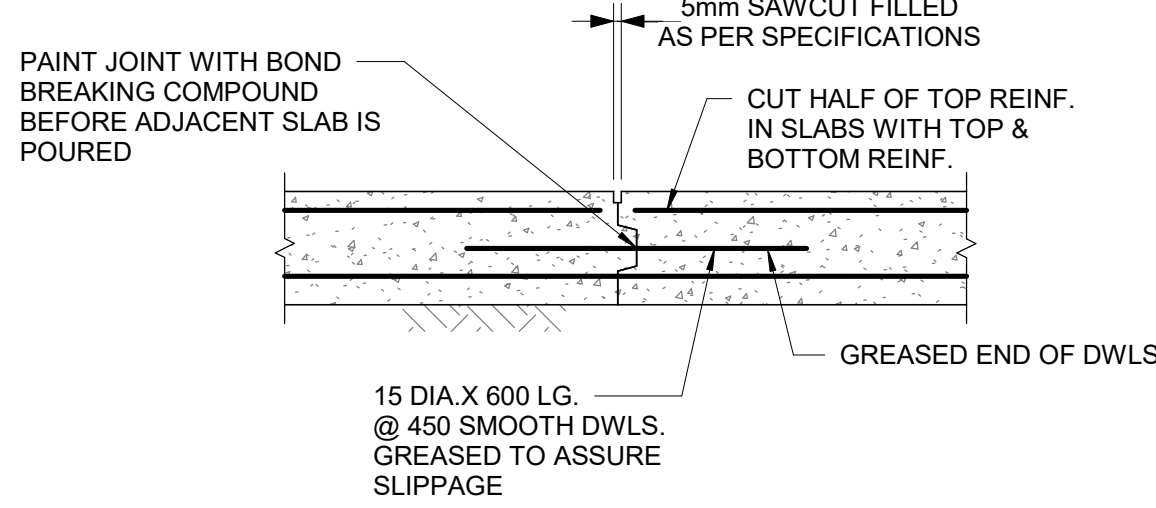
5 TYPICAL CONSTRUCTION JOINT AT EXTERIOR WALL
D2100 Scale: 1 : 20



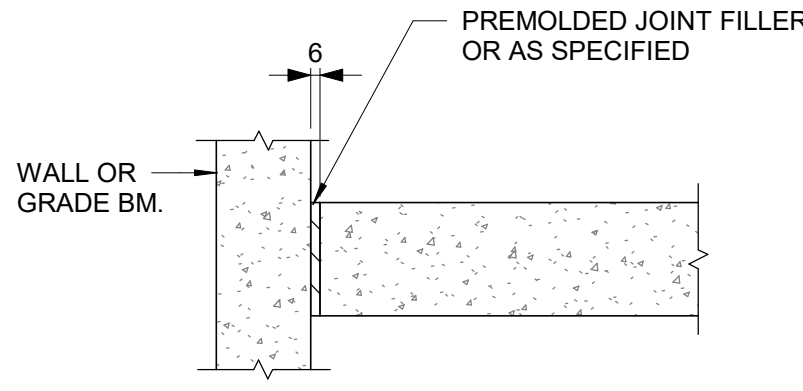
6 BLOCK WALL SLAB - THICKENING AT EXISTING SLAB
D2100 Scale: 1 : 20



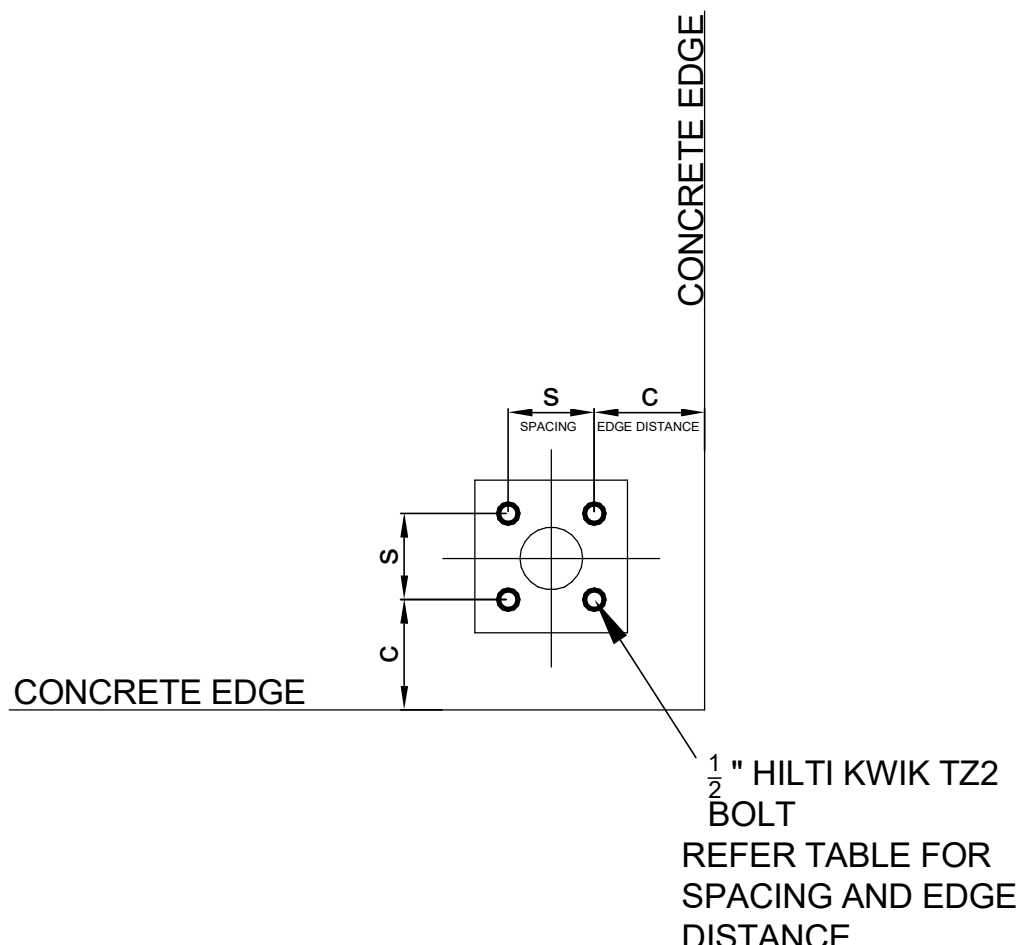
7 FLOOR JOINTS
D2100 Scale: 1 : 20



CONTROL JOINT



ISOLATION JOINT



EXPANSION JOINTS

8 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 _{MIN1}	FOR SPACING S _{MIN1}	MIN EDGE DIST. C _{MIN2}	FOR SPACING S _{MIN2}
200	83	57	133	121	51
150	64	70	248	203	76
125	51	70	140	254	89
100	38	203	305	203	305

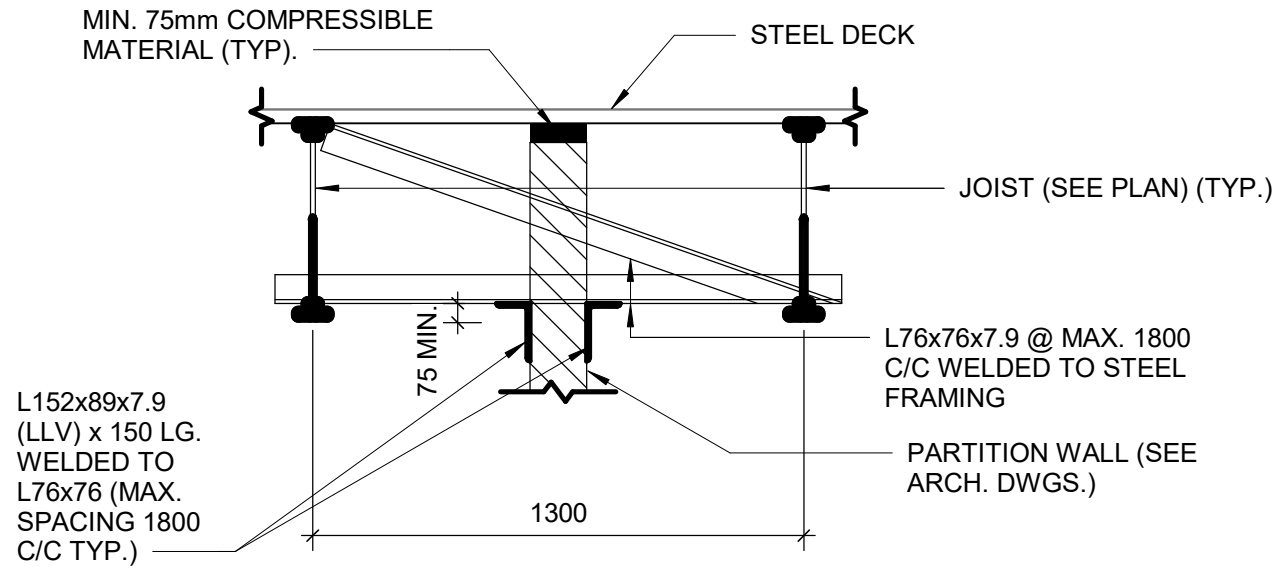
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E	ISSUED FOR TENDER	2025-04-11

CONSULTANTS

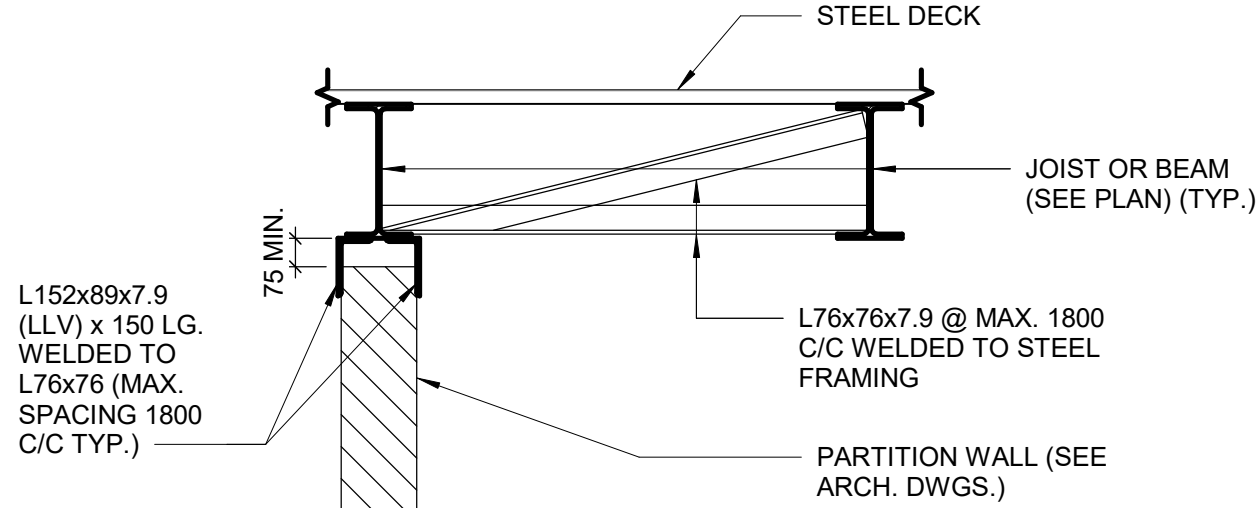
SEAL

PROJECT ADDRESS

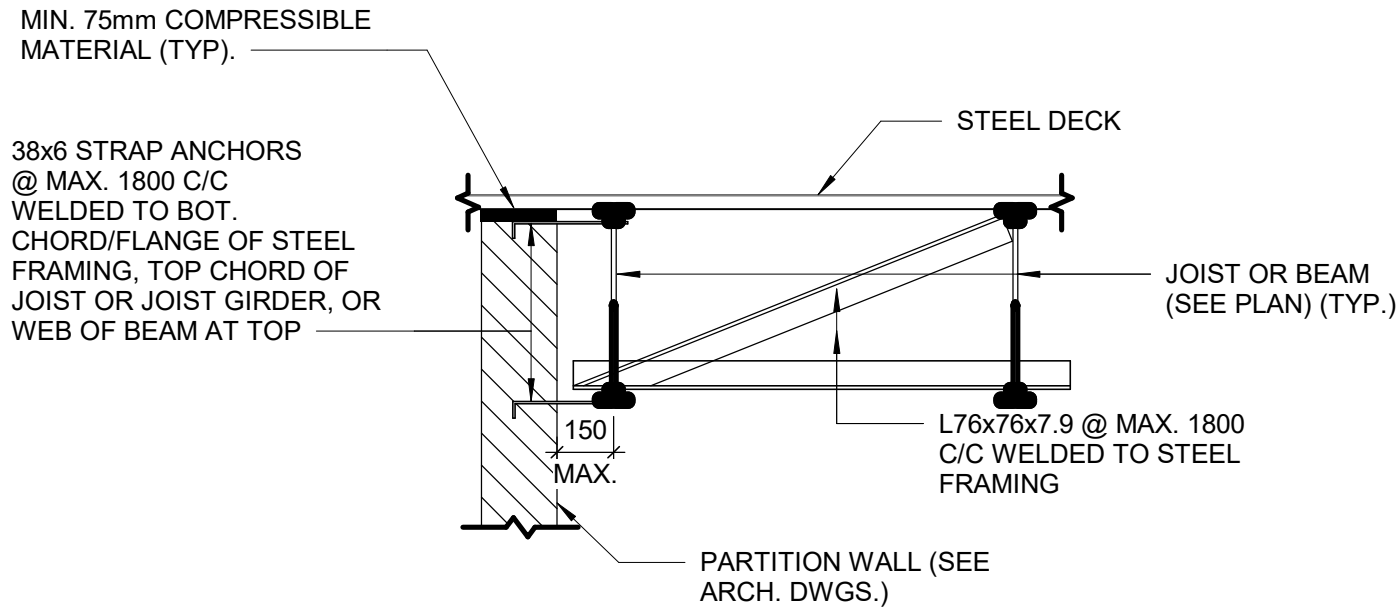
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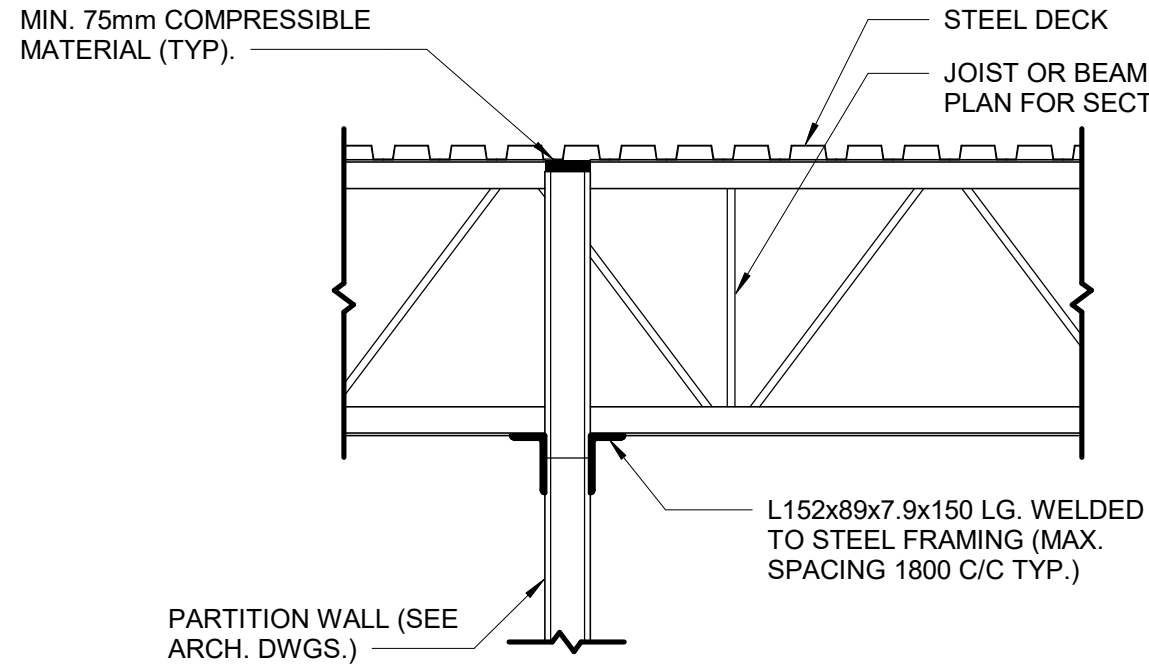
1 PARTITION WALL BETWEEN JOIST
D2200 Scale: 1 : 20



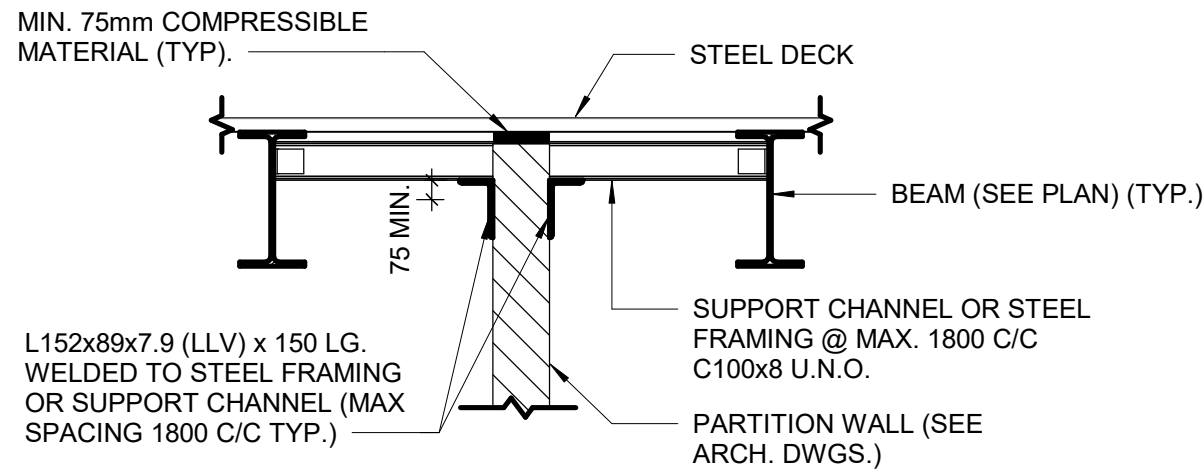
2 PARTITION WALL PARALLEL TO AND CENTERED ON JOIST OR BEAM
D2200 Scale: 1 : 20



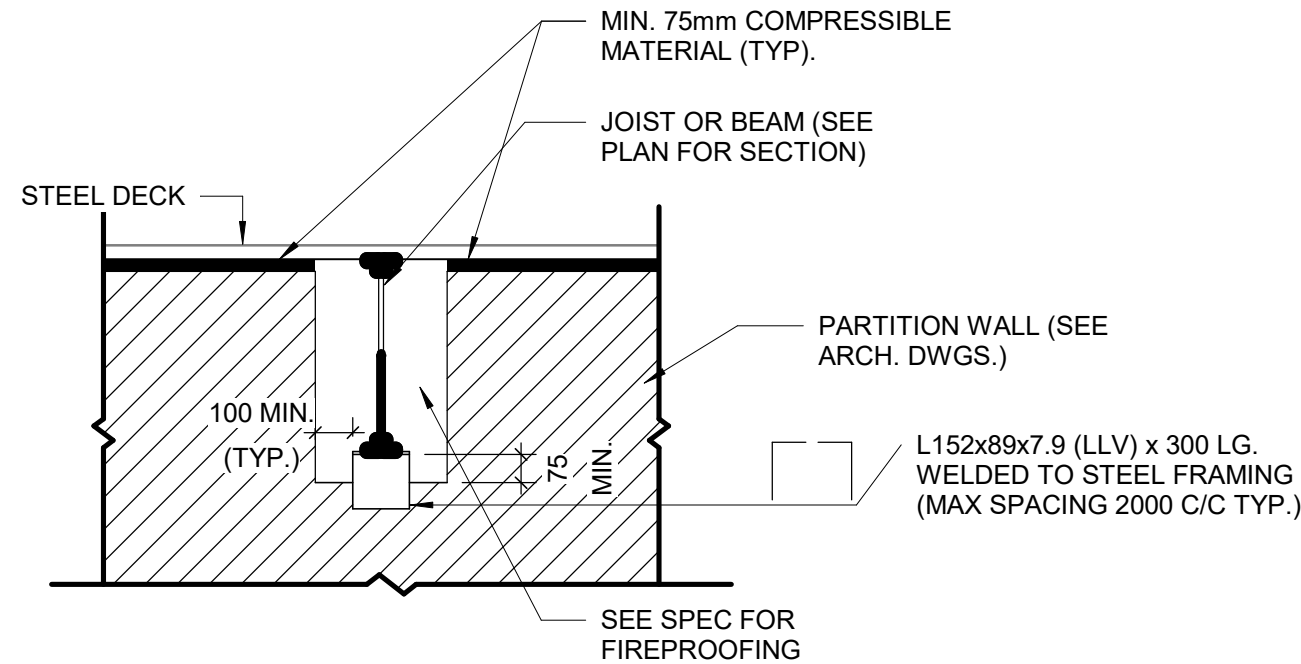
3 PARTITION WALL PARALLEL TO JOISTS OR BEAM
D2200 Scale: 1 : 20



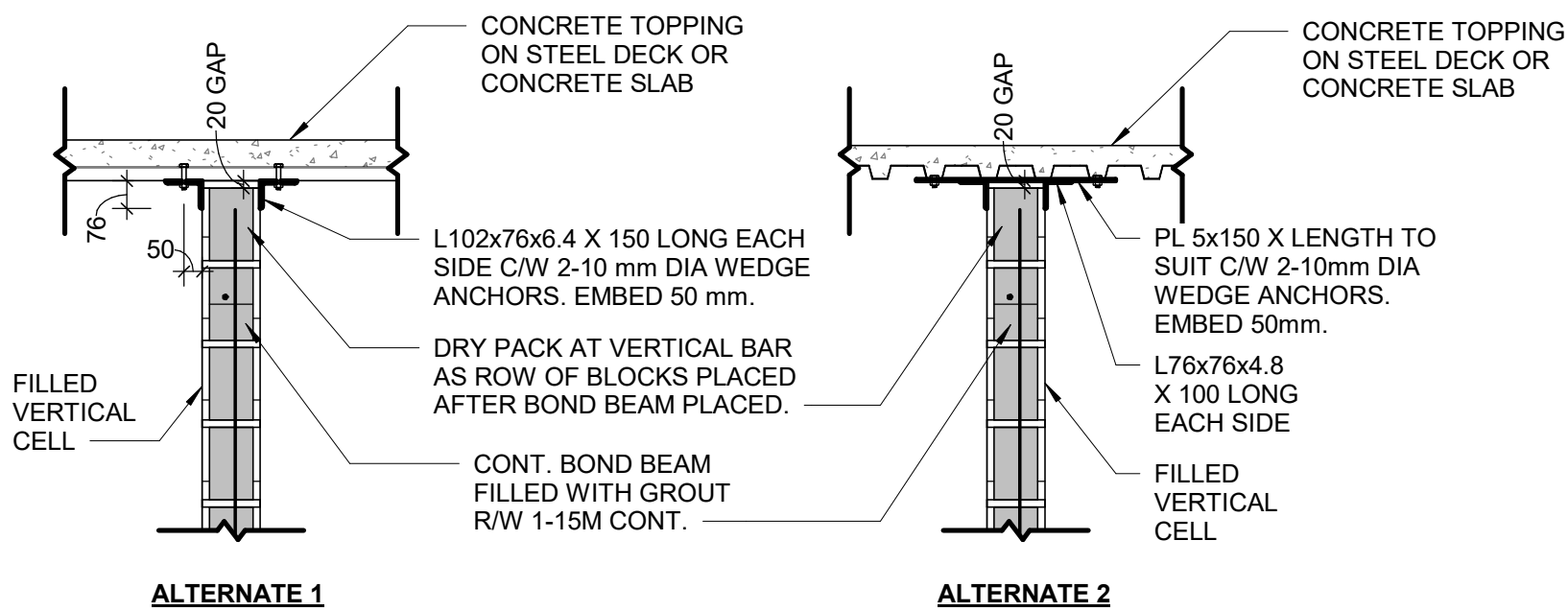
4 PARTITION WALL PERPENDICULAR TO JOIST OR BEAM
D2200 Scale: 1 : 20



5 PARTITION WALL BETWEEN BEAMS
D2200 Scale: 1 : 20

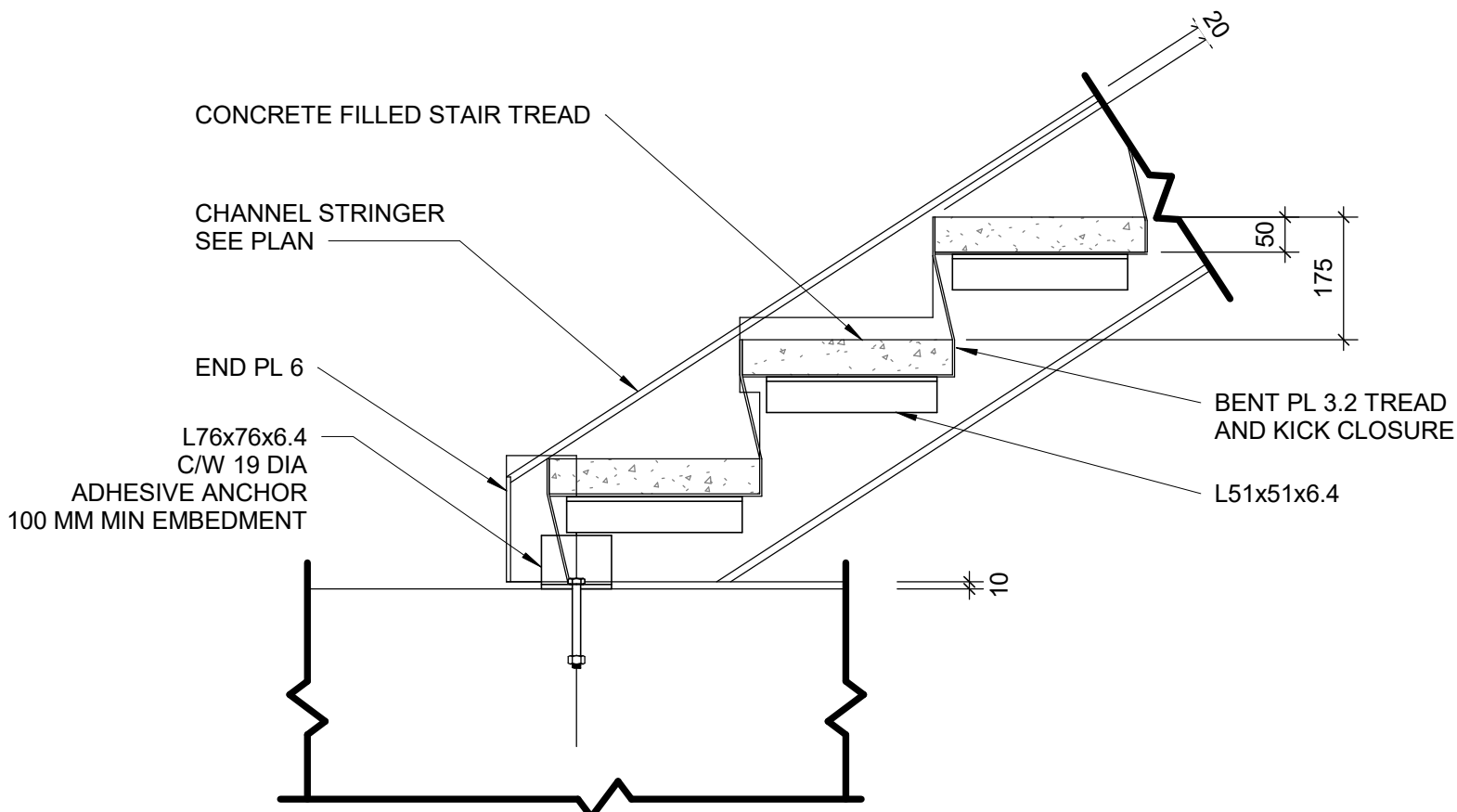


6 PARTITION PERPENDICULAR TO JOIST OR BEAMS
D2200 Scale: 1 : 20

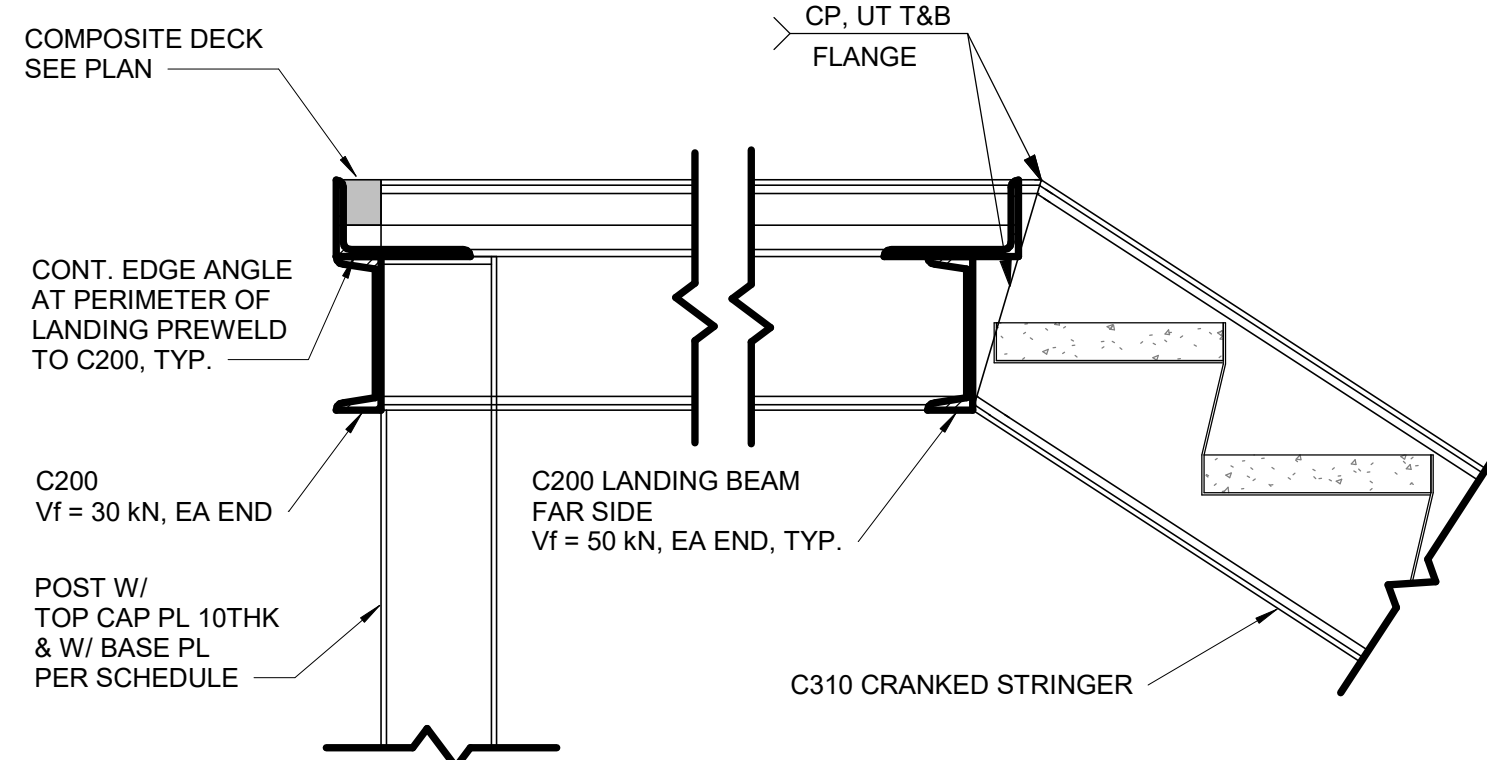


NOTES:
1. ALL CONNECTIONS TO BE AT FILLED VERTICAL CELLS AT 1200 mm O/C MAXIMUM UNLESS NOTED OTHERWISE.
2. FIELD WELD ANGLES TO EMBEDDED PLATE.

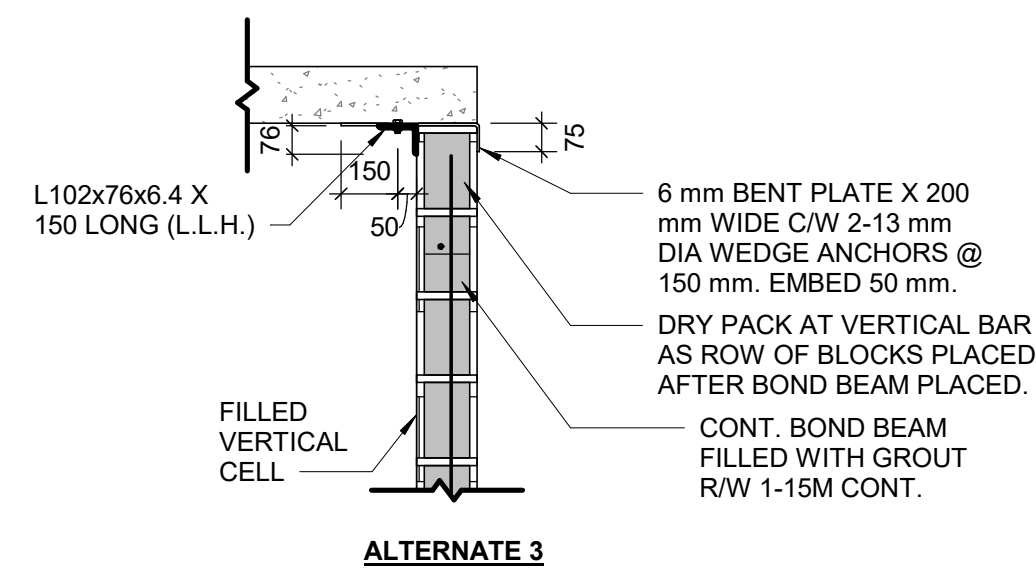
7 SUPPORT DETAIL AT TOP OF BLOCK WALL
D2200 Scale: 1 : 20



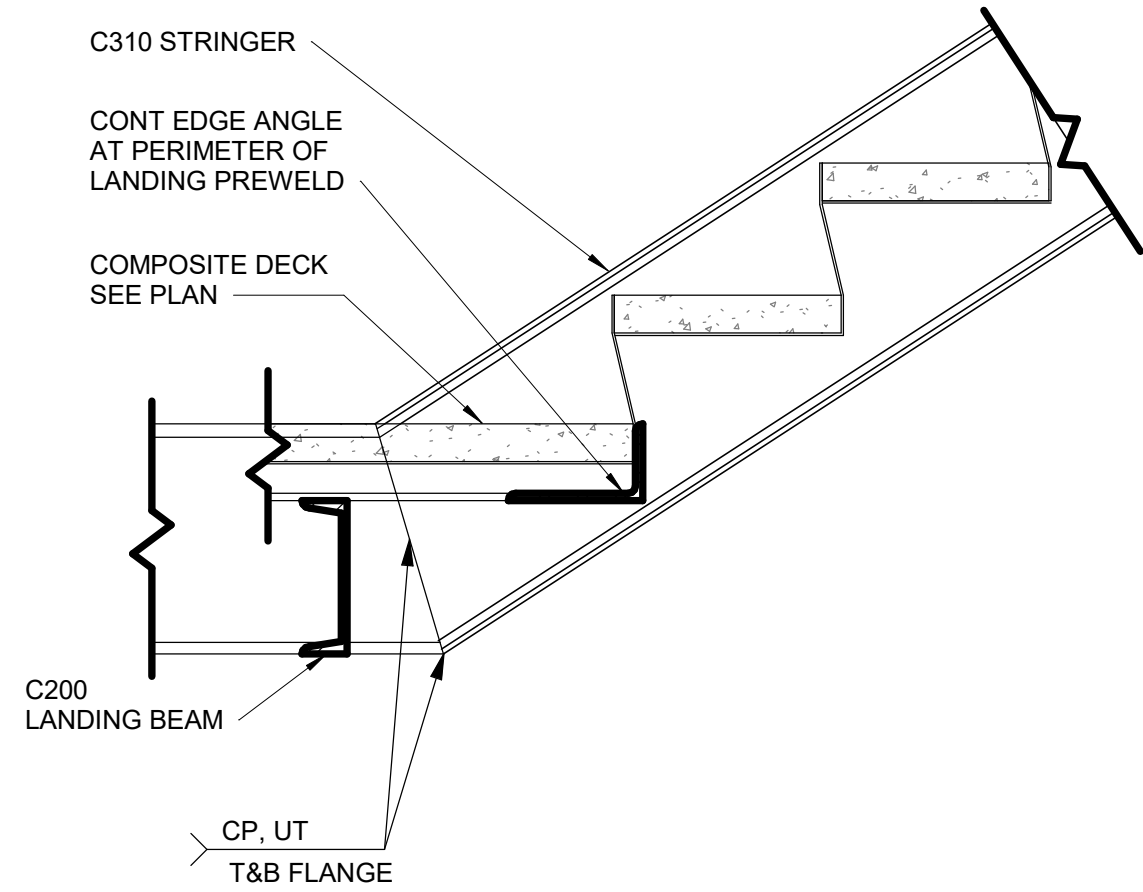
8 TYPICAL SLAB UNDER STRINGER
D2200 Scale: 1 : 10



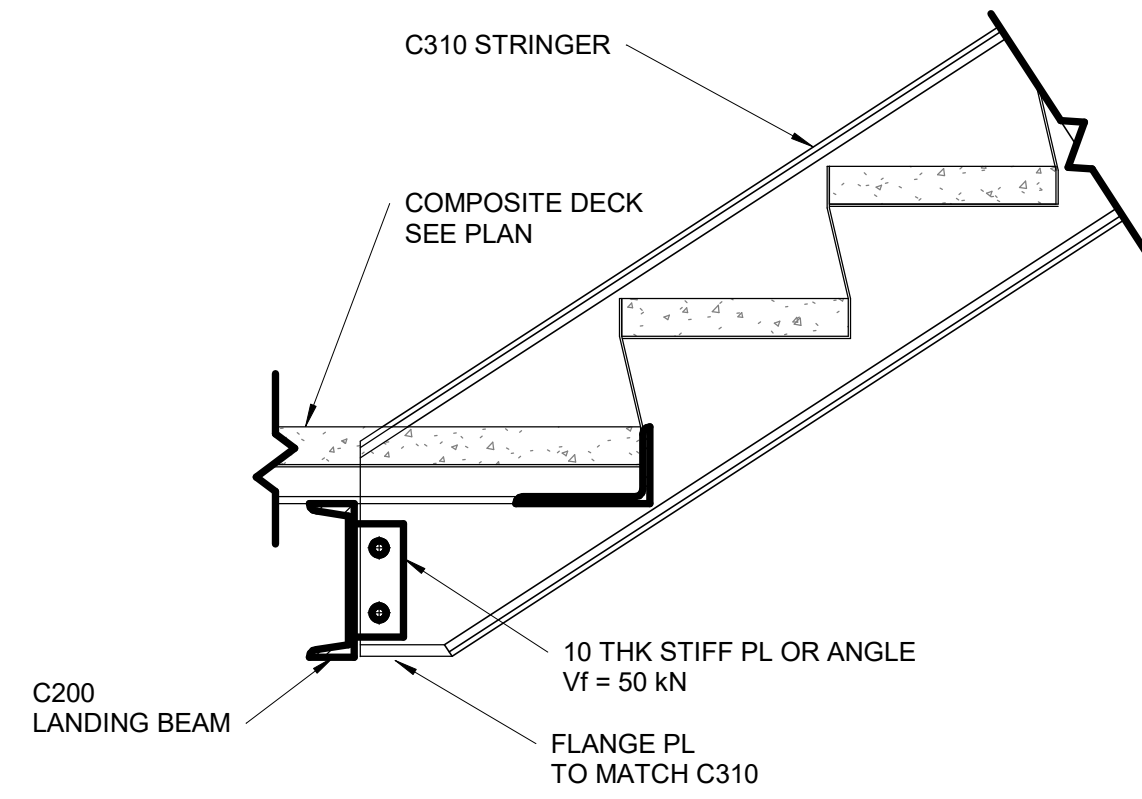
9 TYPICAL SECTION AT UPPER LANDING STRINGER
D2200 Scale: 1 : 10



10 TYPICAL SECTION AT UPPER LANDING
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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CONSULTANTS

SEAL

PRIME CONSULTANT

ARCADIS

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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 / Arcadis 30279056

DRAWN BY:

G. POULOU

CHECKED BY:

M. FAYAZI

PROJECT MGR:

N. FRISCIC

APPROVED BY:

K. ANGER

SHEET TITLE
**STRUCTURAL STEEL
DETAILS - 1**

SHEET NUMBER

G05-D2200

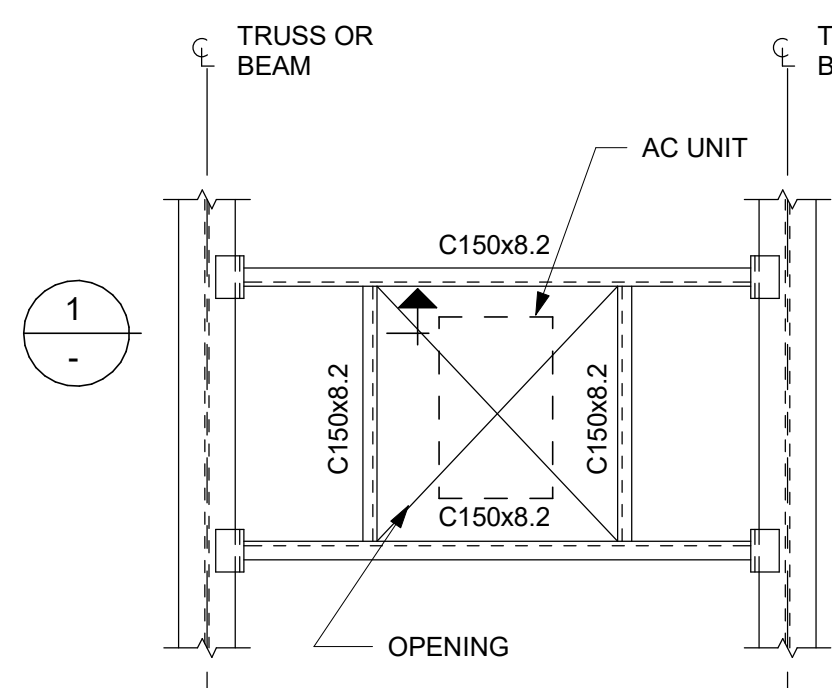
ISSUE

E

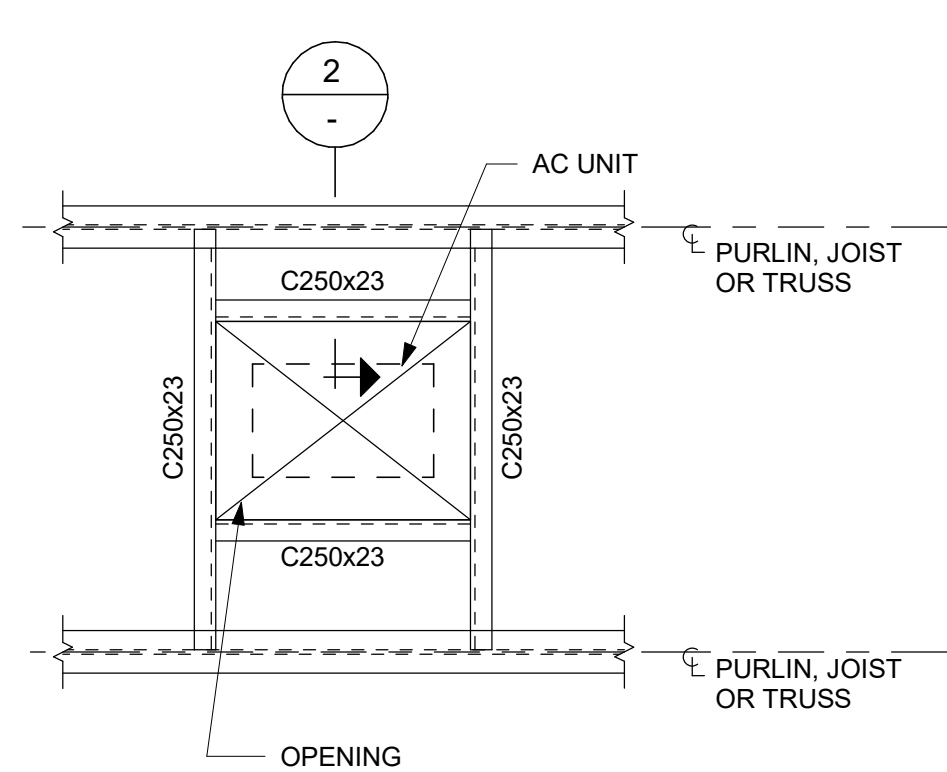
Autodesk Docs // 122260 - Cot TAU Upgrades R2024122260-TAU-G05-Details-R20.rvt

10mm

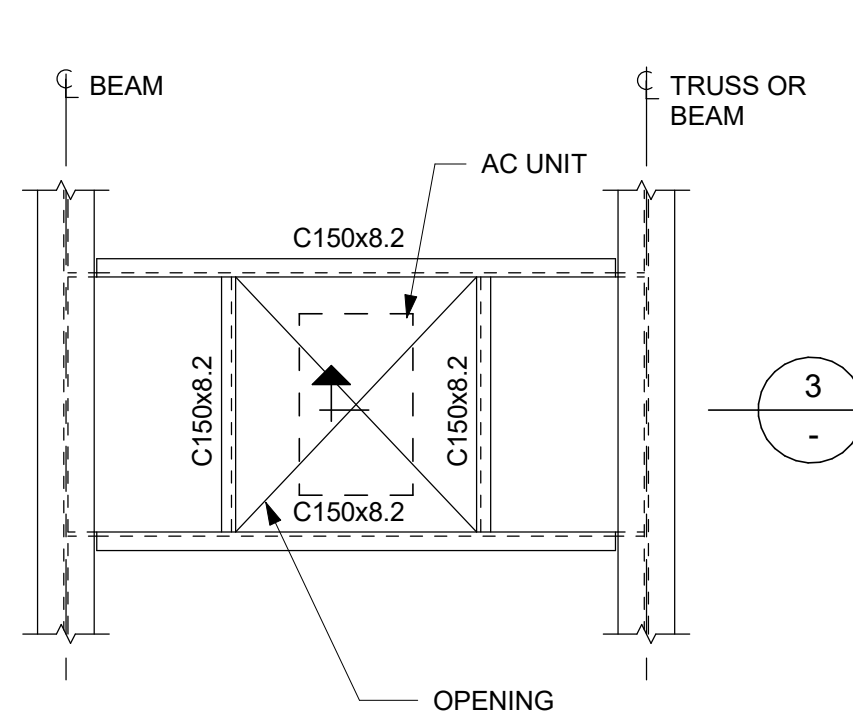
SCALE CHECK
1 in



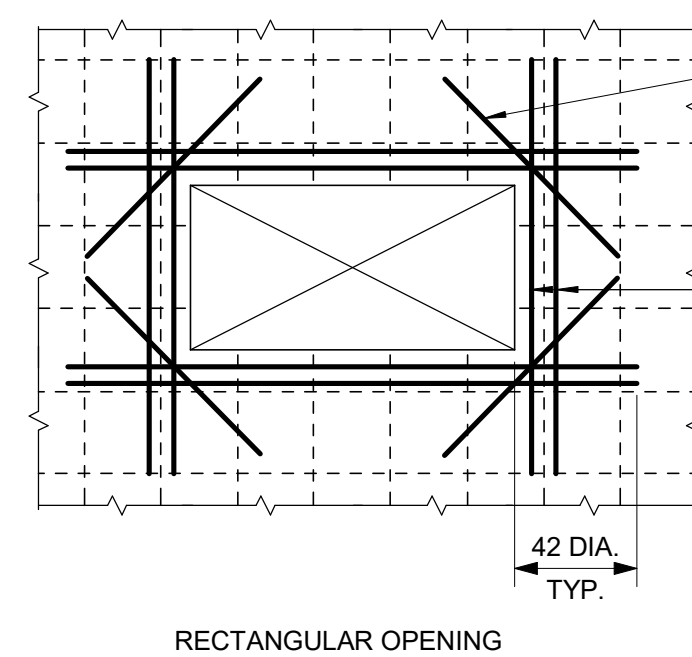
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FRAME TYPE "B"



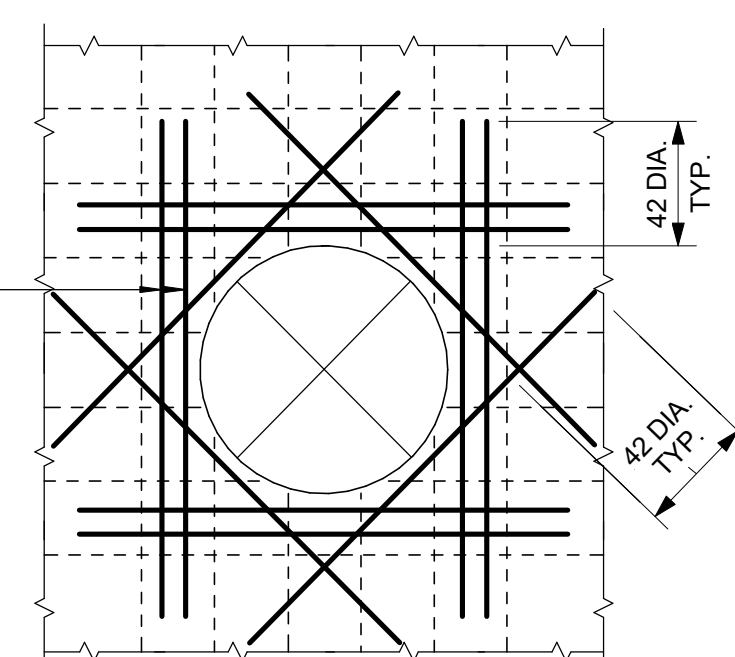
FRAME TYPE "C"



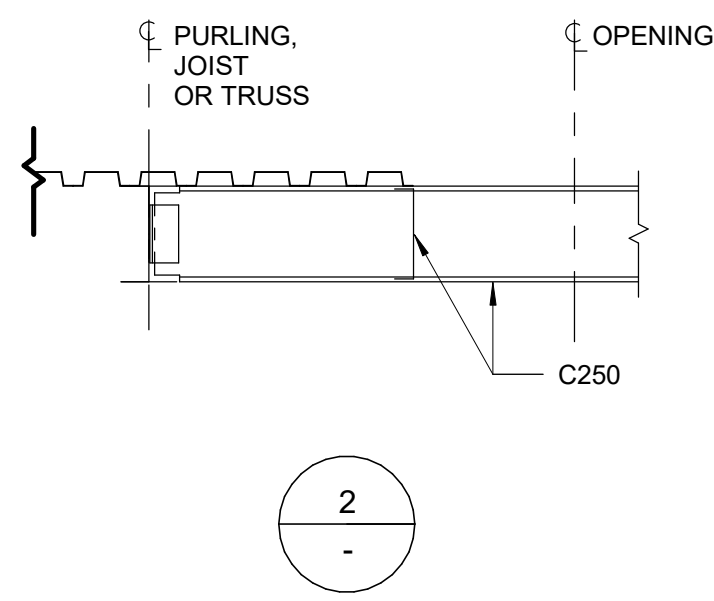
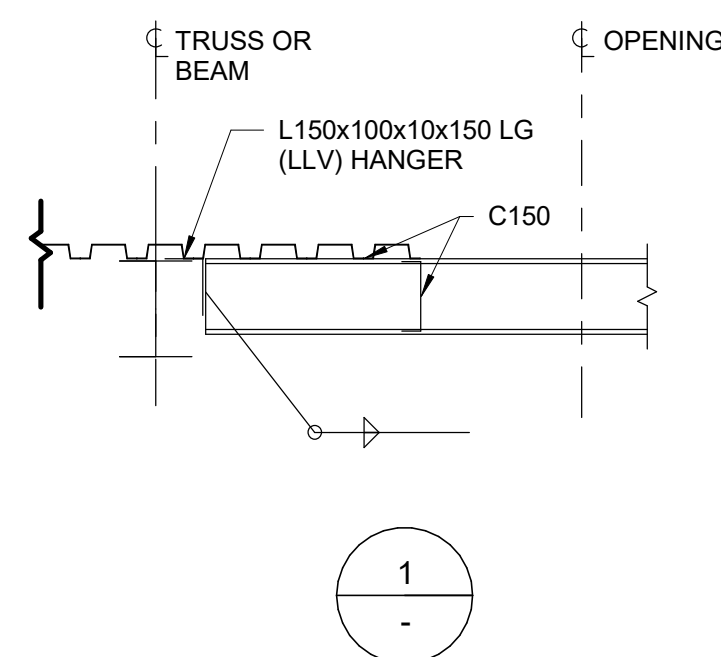
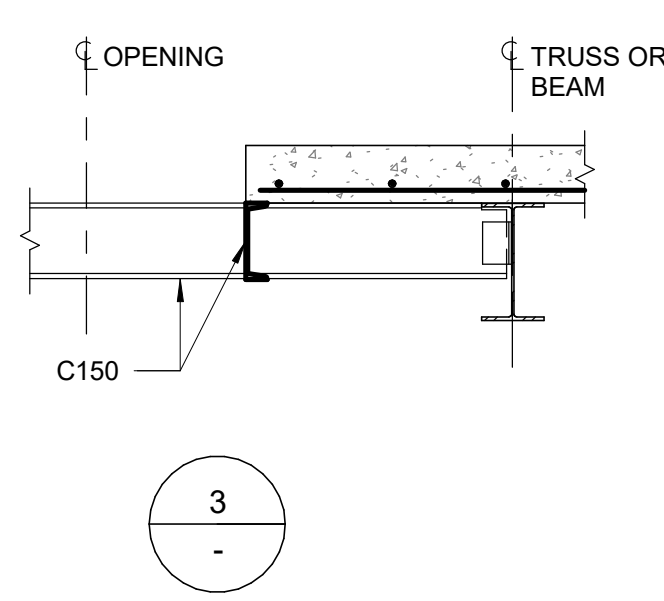
RECTANGULAR OPENING

NOTES:

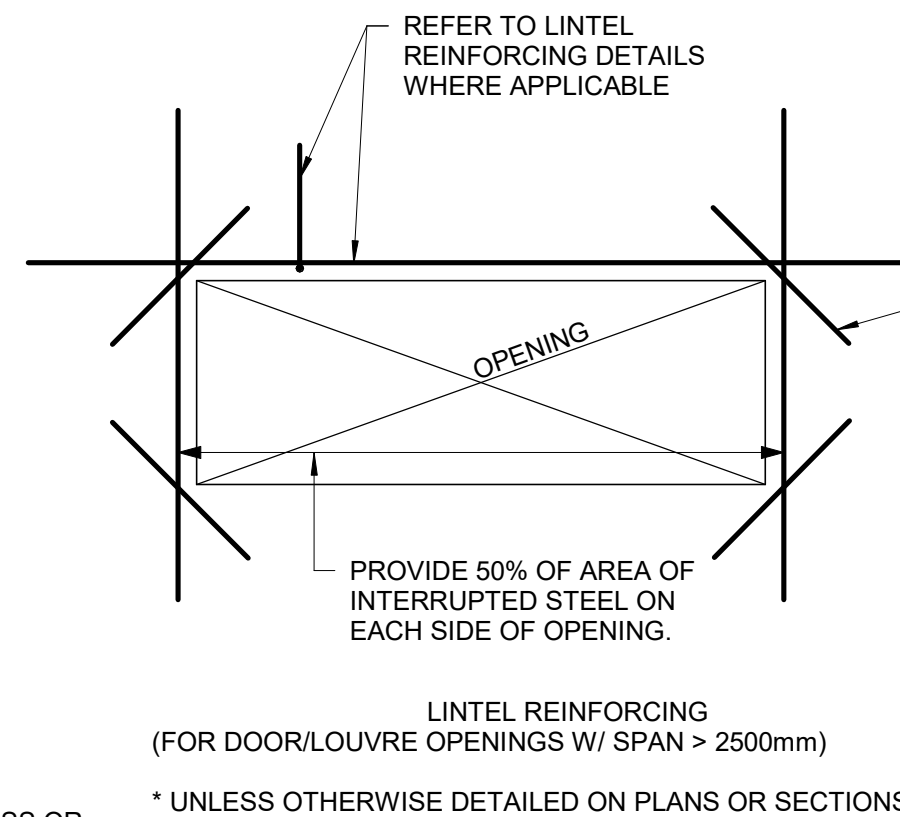
1. UNLESS NOTED OTHERWISE ON PLANS AND SECTION, REINFORCE AROUND OPENINGS AS SHOWN. DO NOT MAKE OPENINGS LARGER THAN THE MAXIMUM DIMENSIONS NOTED BELOW WITHOUT PRIOR REVIEW FROM THE ENGINEER OF RECORD, UNLESS NOTED ON STRUCTURAL DRAWINGS.
2. MAXIMUM SLAB OPENING SIZE IS 2500mm SQUARE OR ROUND U/N ON DRAWINGS. THIS DETAIL APPLIES FOR OPENINGS WITH A DIMENSION GREATER THAN 150mm. THIS DETAIL ALSO APPLIES AT PIPE OPENINGS.



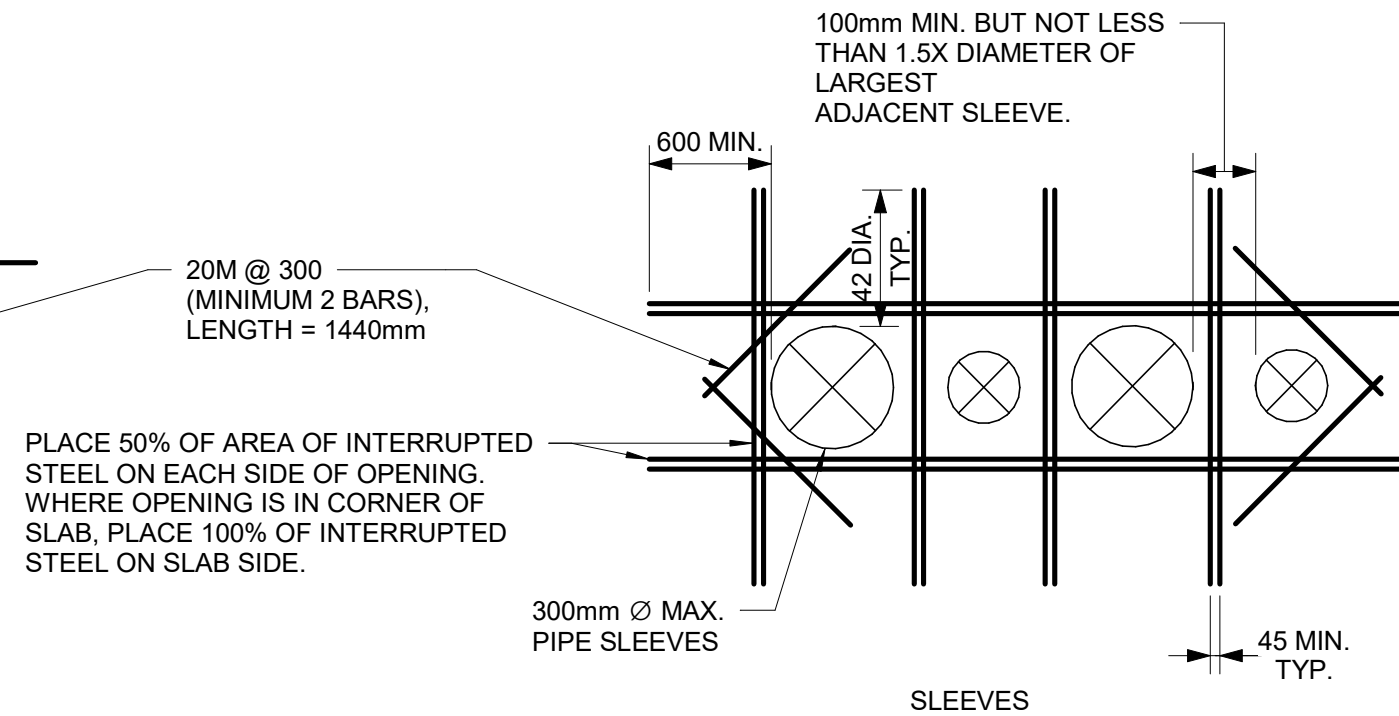
CIRCULAR OPENING

1 TYPICAL ROOF OPENING
D2201 Scale: 1 : 20

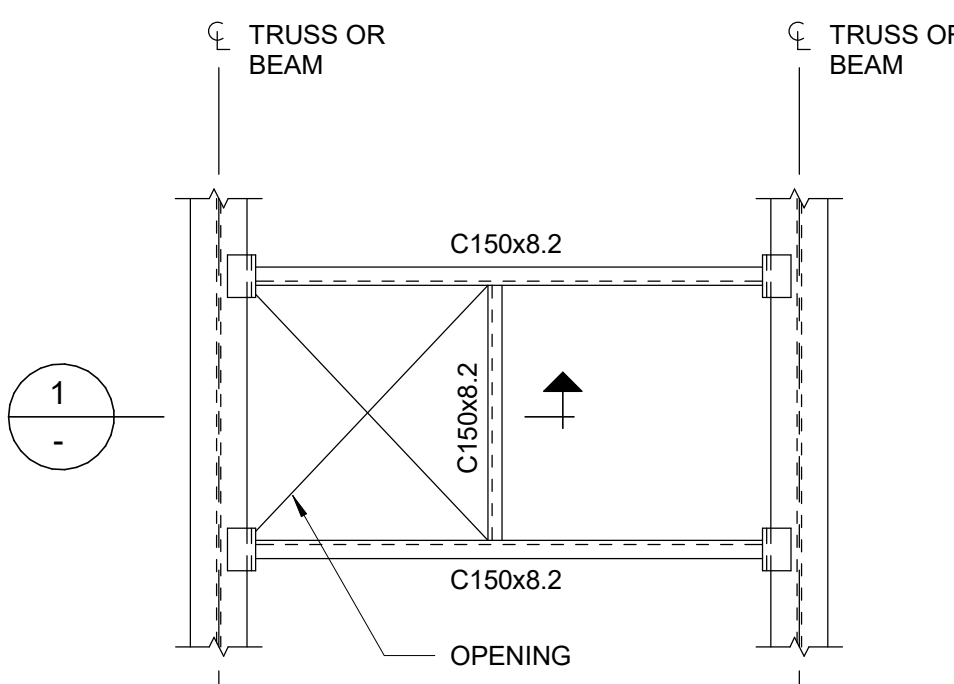
3

LINTEL REINFORCING
(FOR DOOR/LOUVRE OPENINGS W/ SPAN > 2500mm)

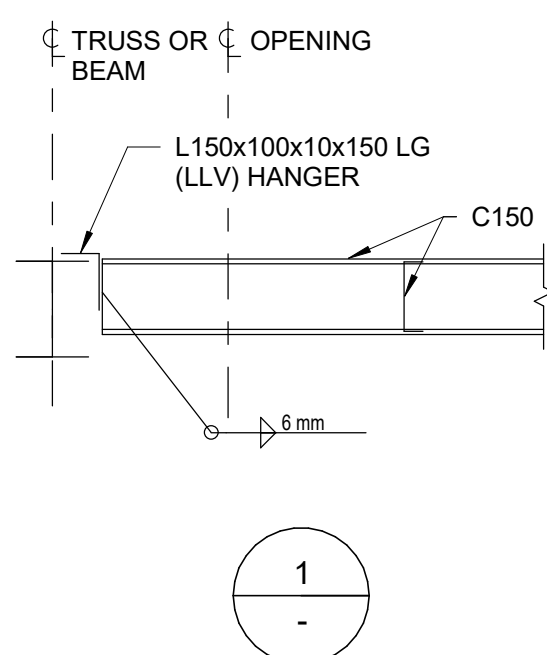
* UNLESS OTHERWISE DETAILED ON PLANS OR SECTIONS



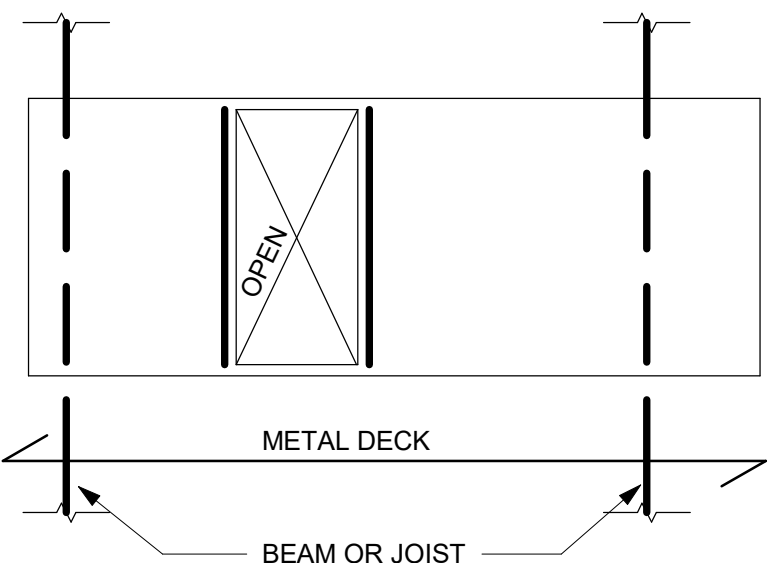
SLEEVES

2 ADD'L REINF. TO OPENINGS IN CONC. WALLS AND SLABS
D2201 Scale: 1 : 20

1

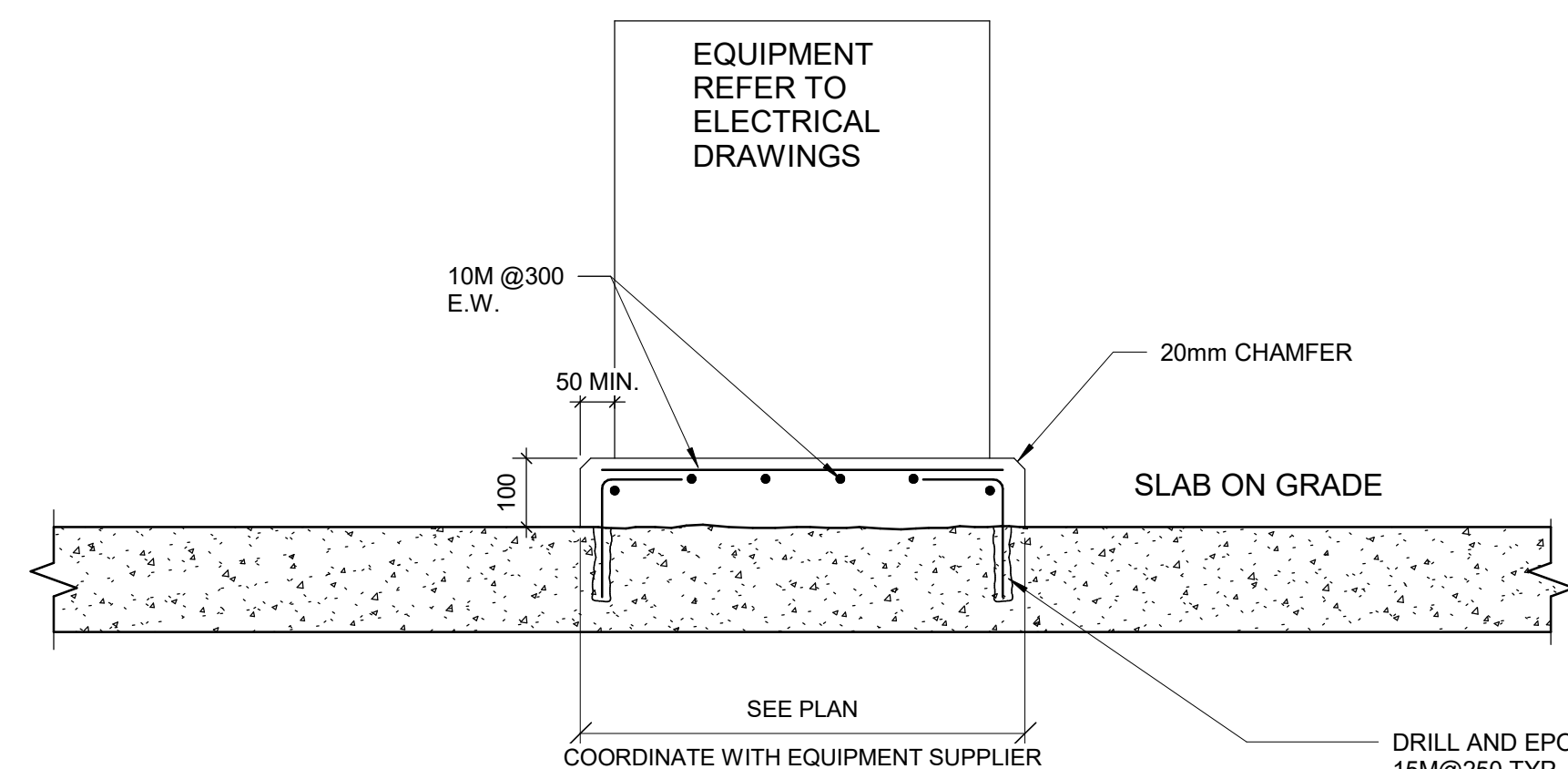


1

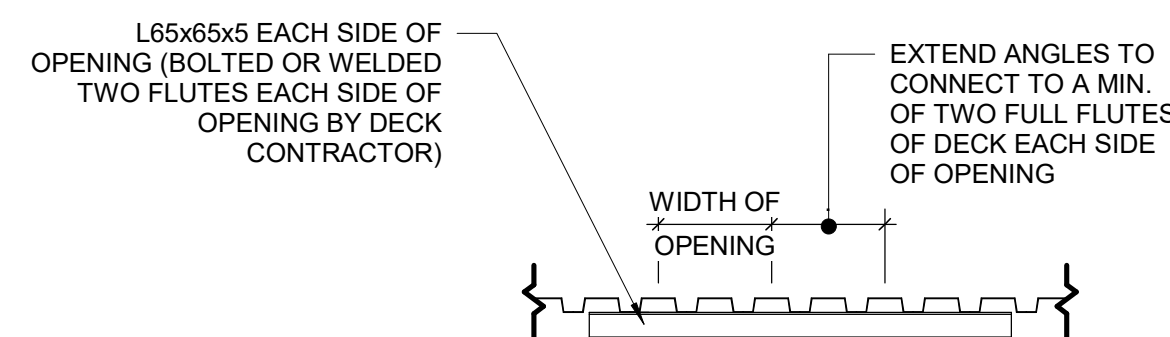
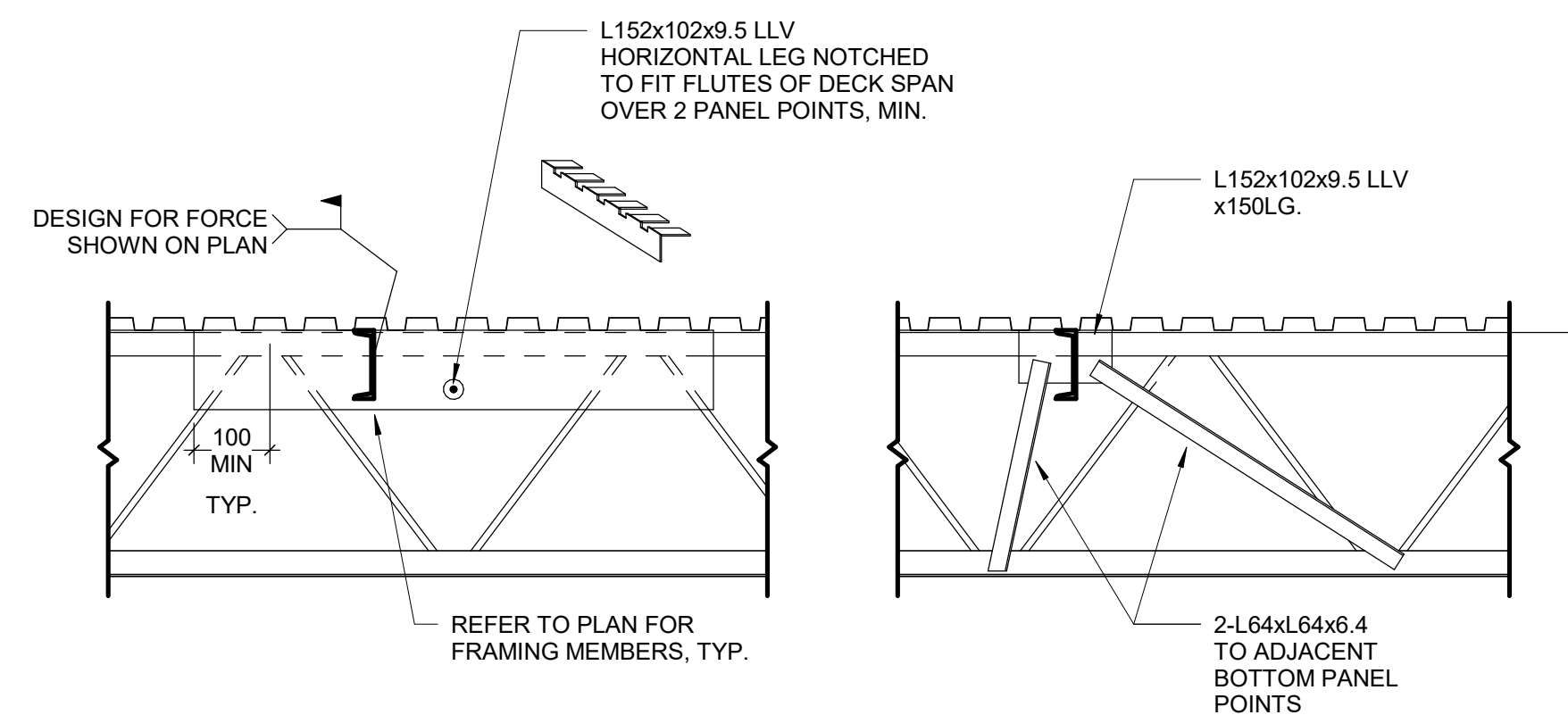
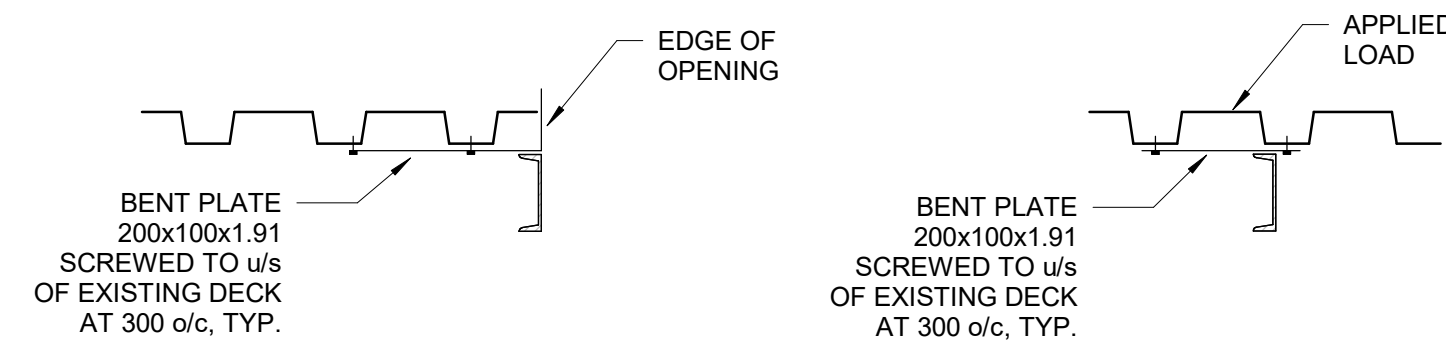
4 TAU-S-014-00 TYPICAL ROOF OPENING ADJACENT TO BEAM
D2201 Scale: 1 : 206 OPENINGS IN METAL ROOF DECK
D2201 Scale: 1 : 20

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.



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

5 TYPICAL HOUSEKEEPING PAD
D2201 Scale: 1 : 107 METAL DECK OPENINGS 200 TO 360 WIDE
D2201 Scale: 1 : 20DETAIL AT EXISTING JOIST
(TWO OPTIONS SHOWN)

DETAIL AT EXISTING DECK

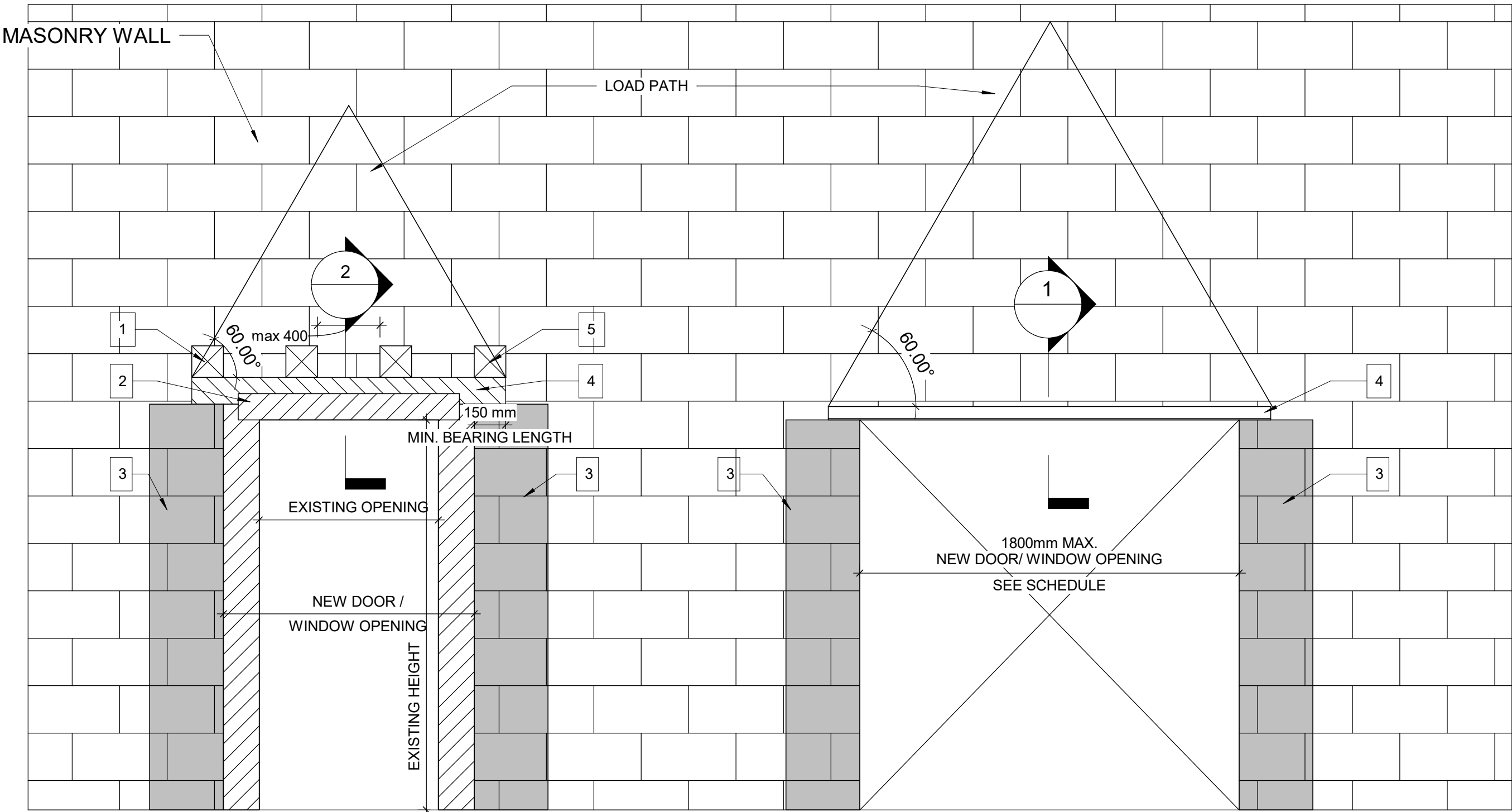
3 FRAMING INTO EXISTING STEEL JOISTS AND DECK
D2201 Scale: 1 : 20

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A	50% SUBMISSION	2022-04-27
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CONSULTANTS

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PROJECT ADDRESS



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.

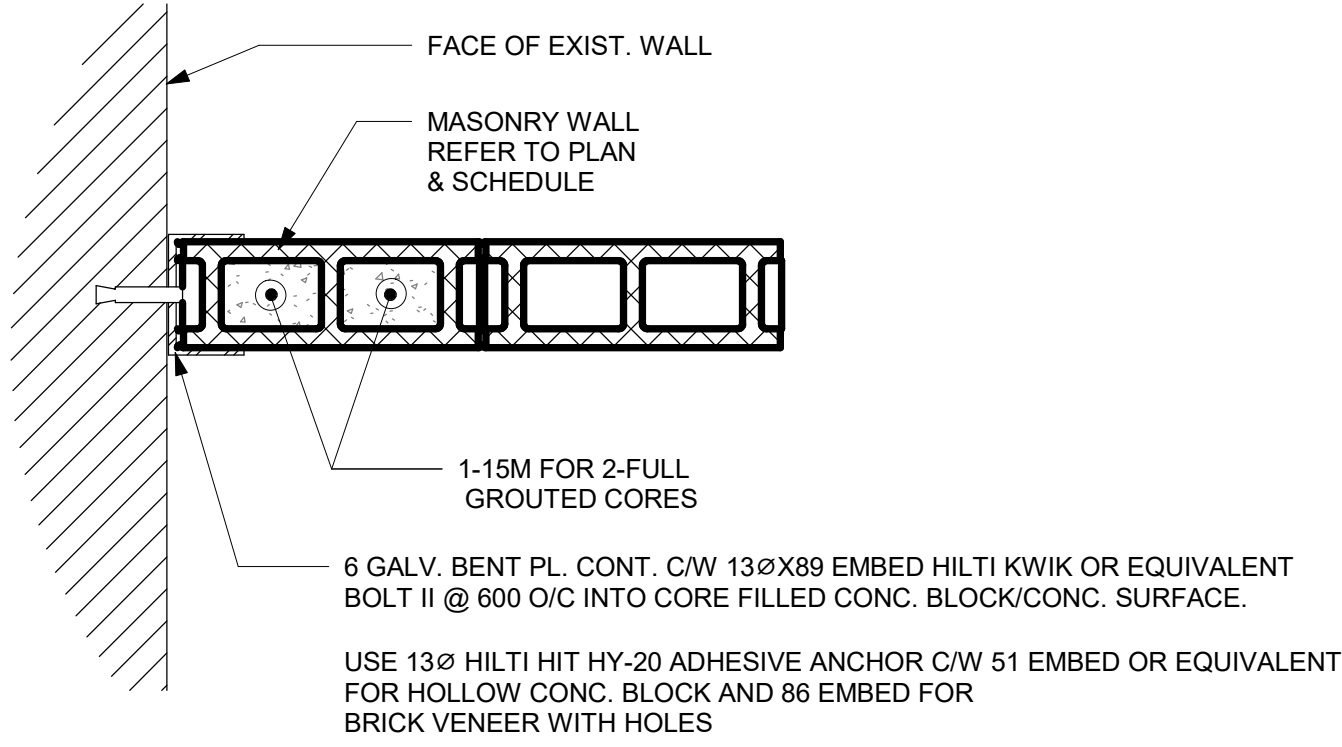
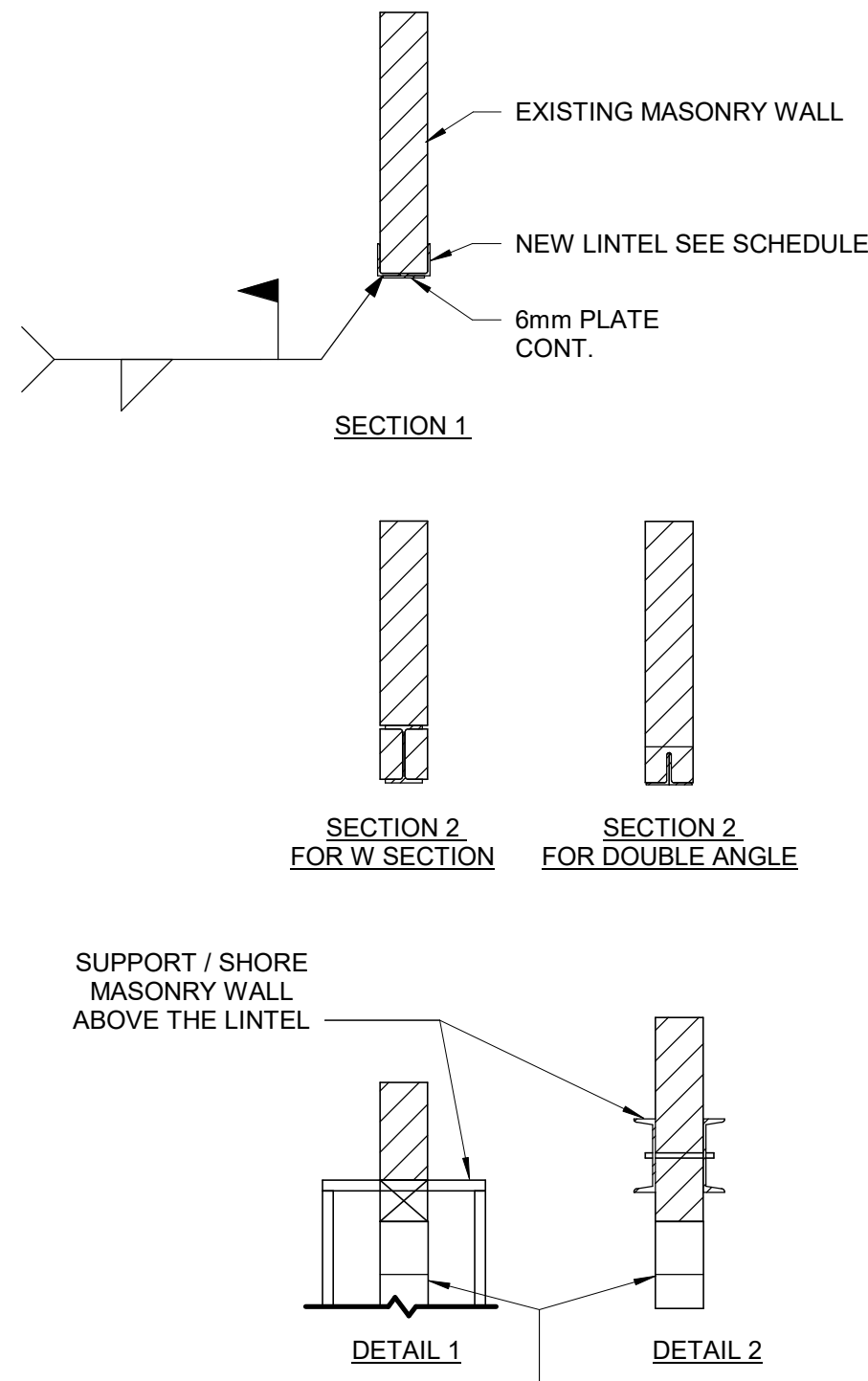
LINTEL:

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

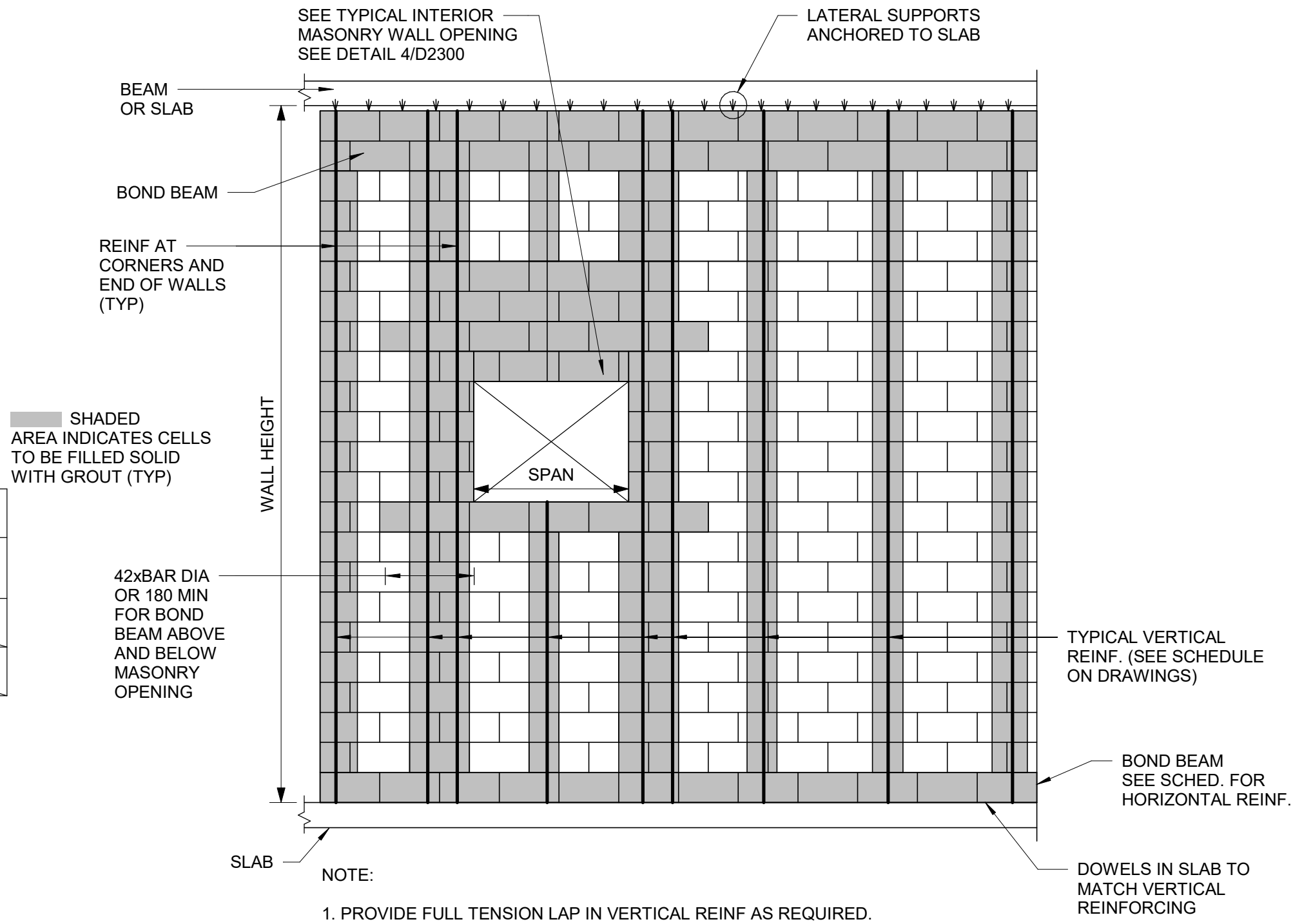
STEEL LINTELS

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		

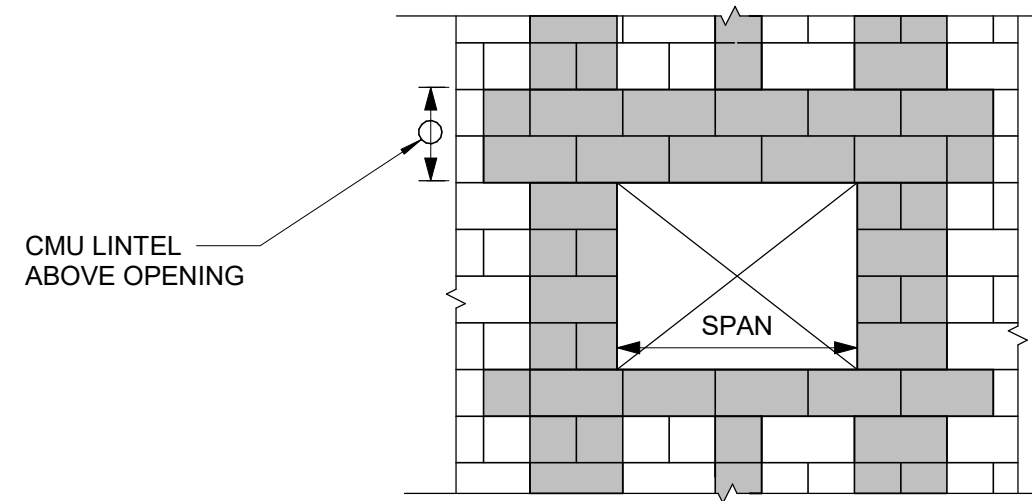
- TO INSTALL A LINTEL TO THE EXISTING BLOCK WALL FOR A NEW OPENING, CUT A GROOVE THROUGH THE EXISTING BLOCK WALL AT THE TOP OF THE NEW OPENING AND INSTALL THE ANGLE FROM ONE SIDE OF THE WALL FOR SINGLE ANGLE OR FROM BOTH SIDES OF THE WALL FOR DOUBLE ANGLE AND THEN CUT THE OPENING.
- MINIMUM BEARING FOR 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

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

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CONSULTANTS

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PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056
DRAWN BY:
G. POULOU
CHECKED BY:
M. FAYAZI
PROJECT MGR:
N. FRISCIC
APPROVED BY:
K. ANGER

SHEET TITLE
MASONRY DETAILS

SHEET NUMBER
G05-D2300
ISSUE
E

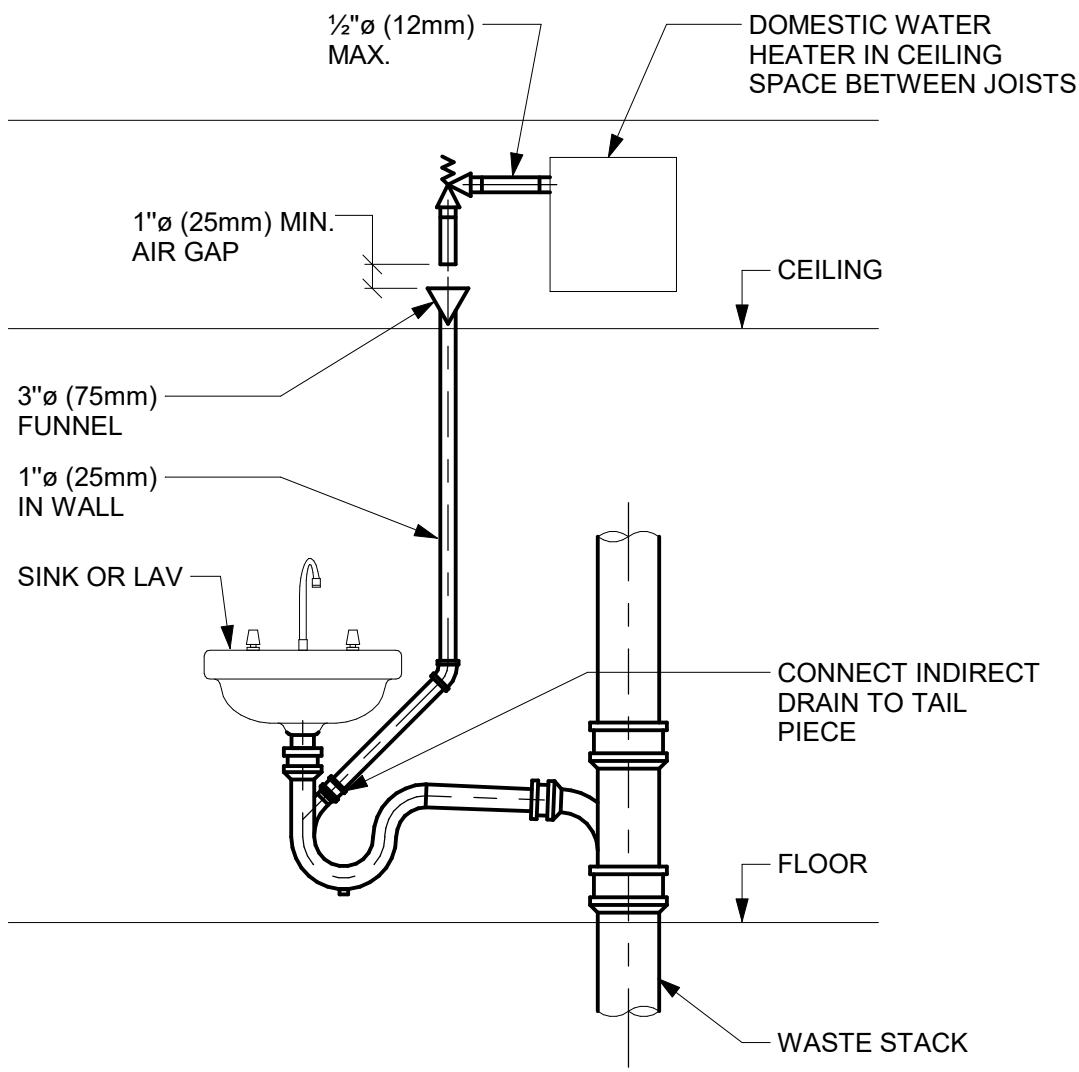
PLUMBING FIXTURE SCHEDULE

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	

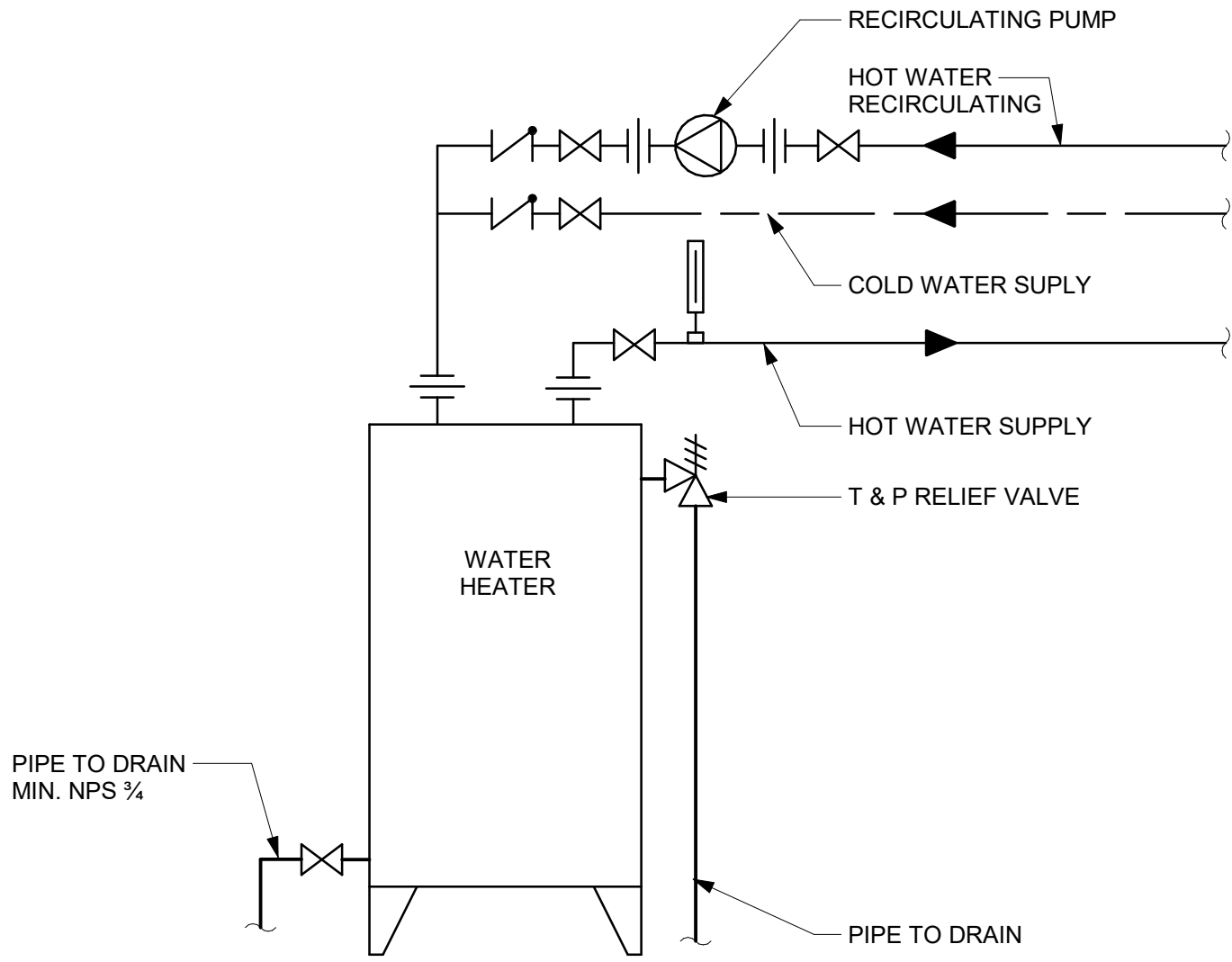
NOTES:

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

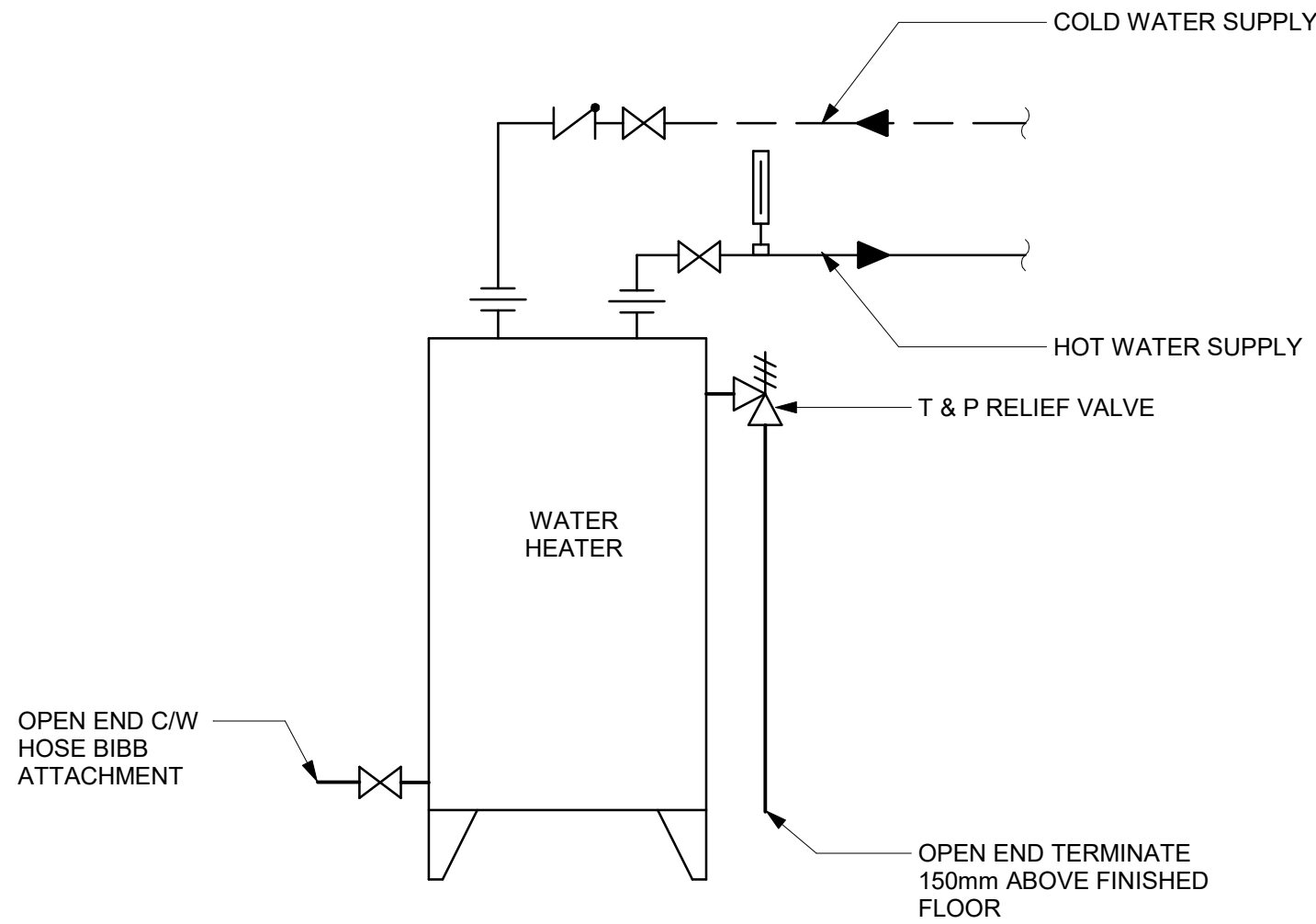
1 PLUMBING FIXTURE SCHEDULE
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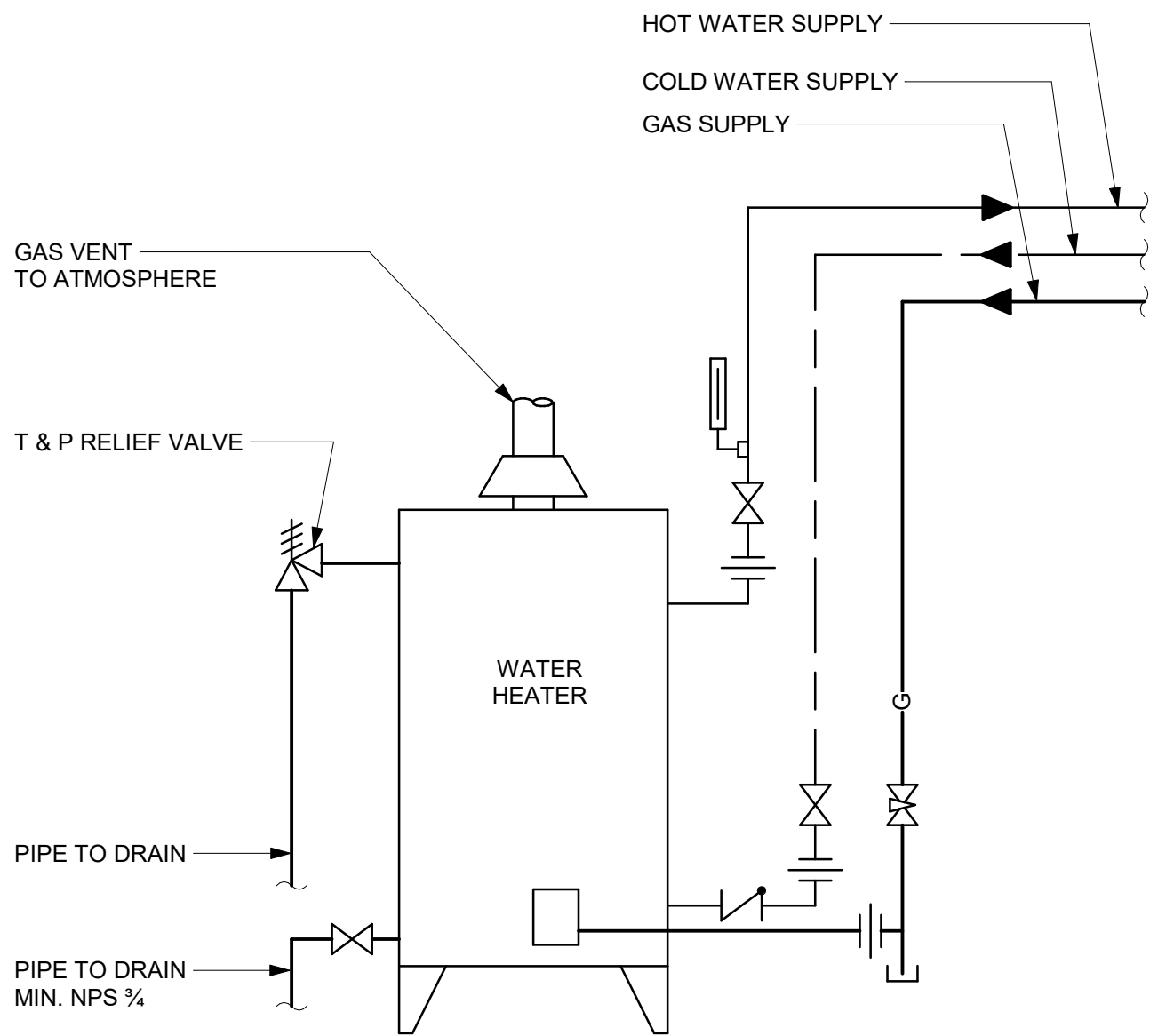
2 INDIRECT WASTE FROM OVERHEAD DWH RELIEF VALVE
Scale: N.T.S.



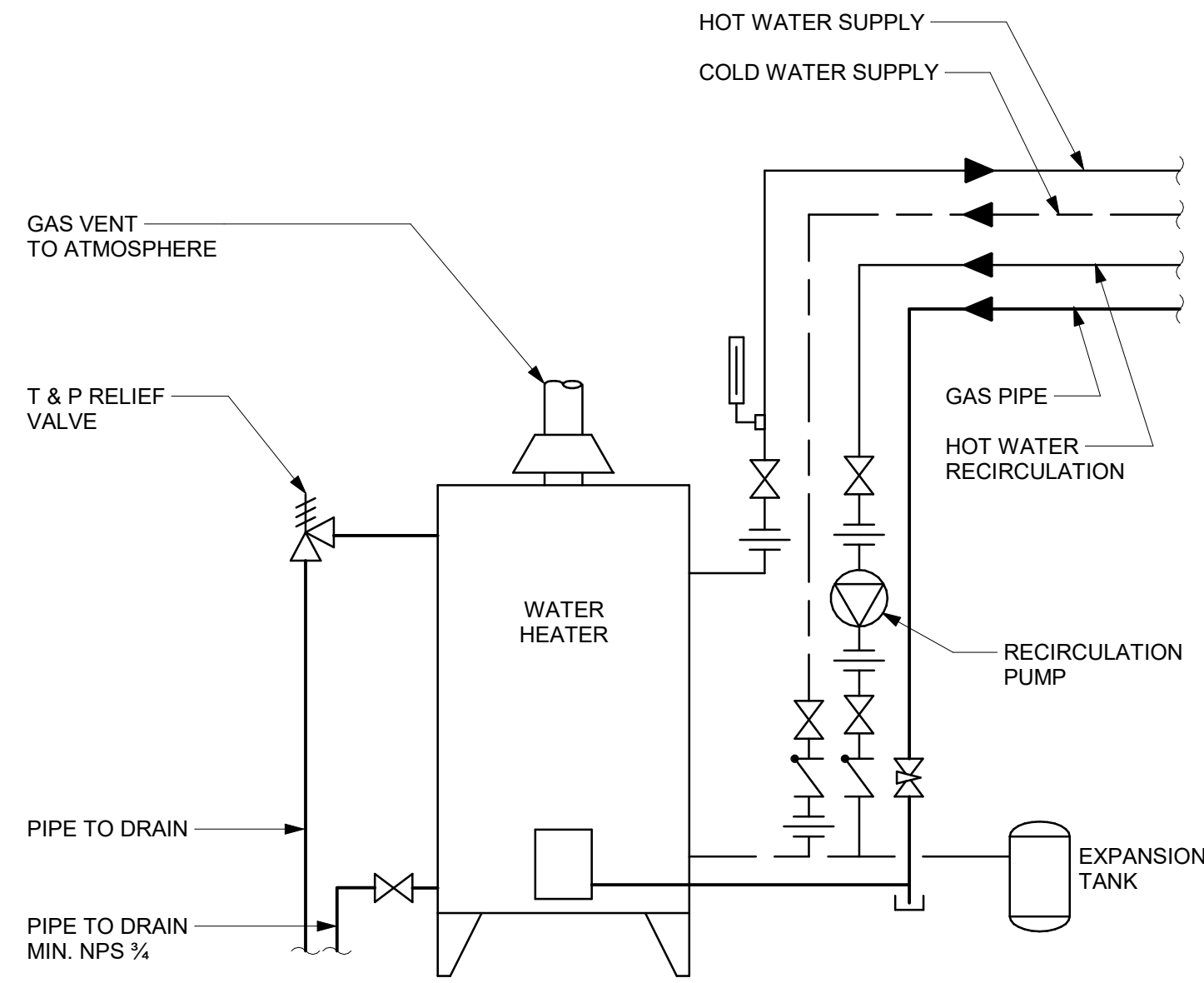
3 DOMESTIC WATER HEATER ELECTRIC WITH RECIRCULATION
Scale: N.T.S.



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	2021-11-19
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	ISSUED FOR TENDER	2022-12-07
E	ISSUED FOR REVISED PERMIT	2024-06-14
F	ISSUED FOR TENDER	2025-04-11

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Toronto, ON M9W 0C9, Canada
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PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY:
K. DURUKAN

CHECKED BY:
B. LIAO

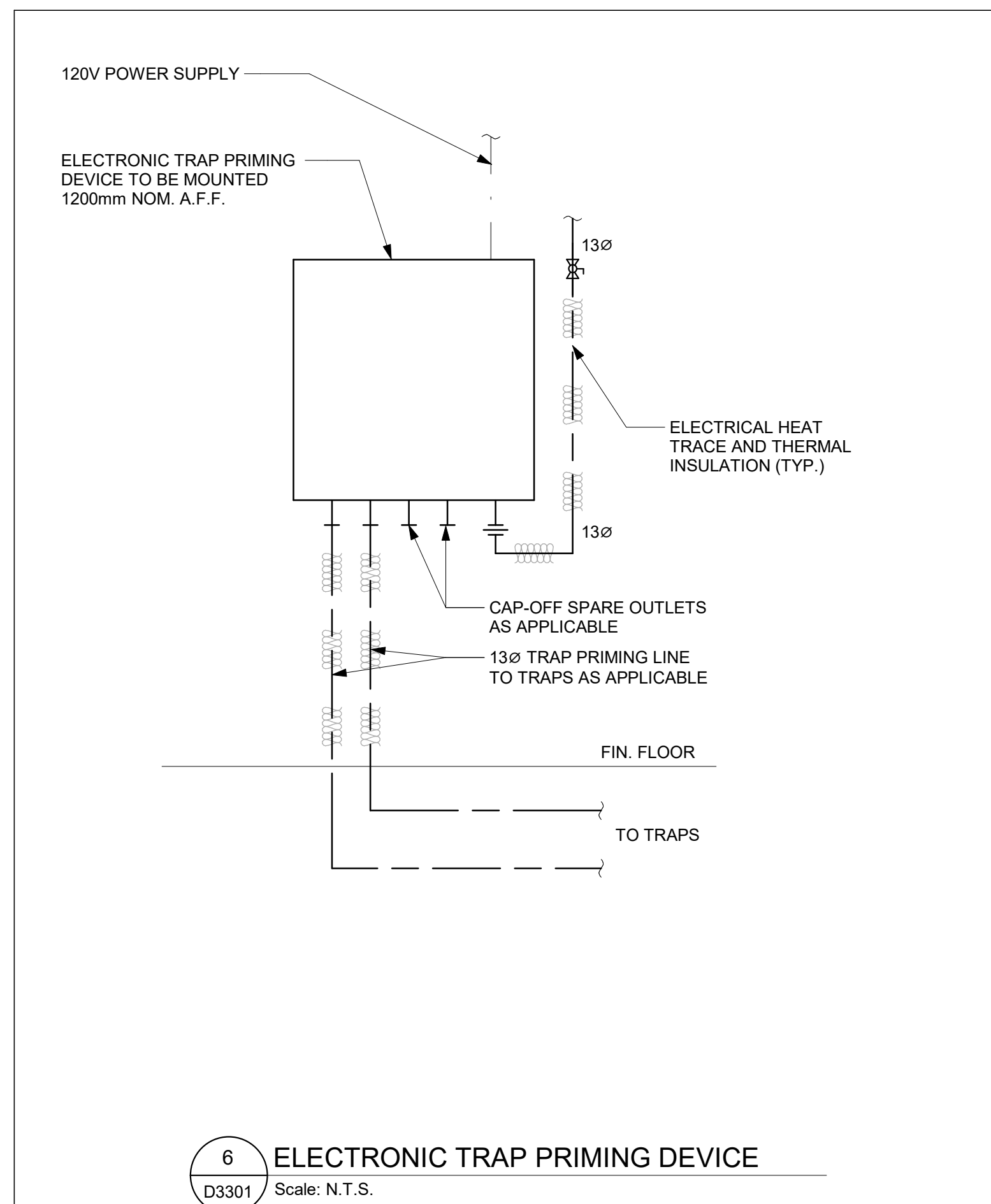
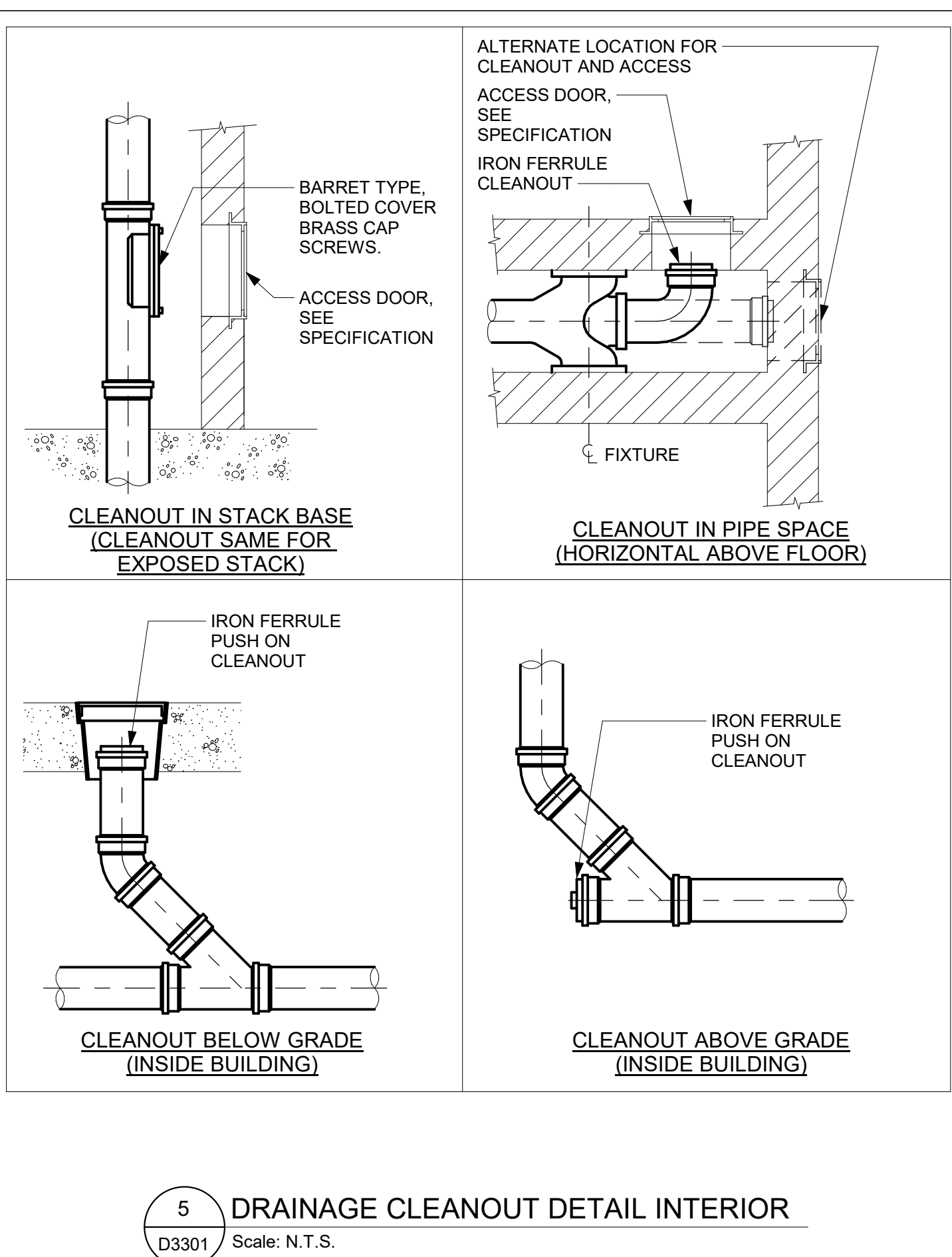
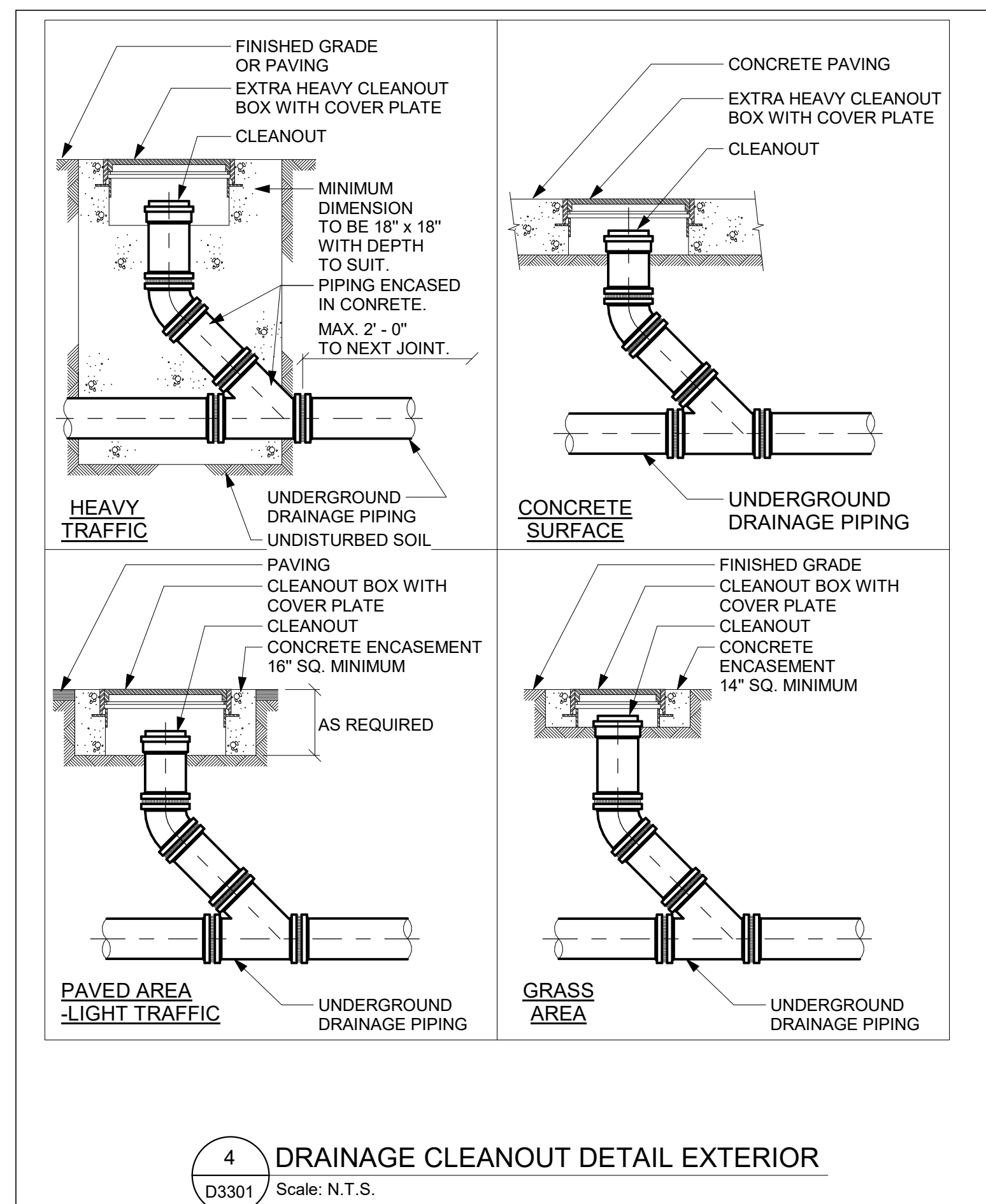
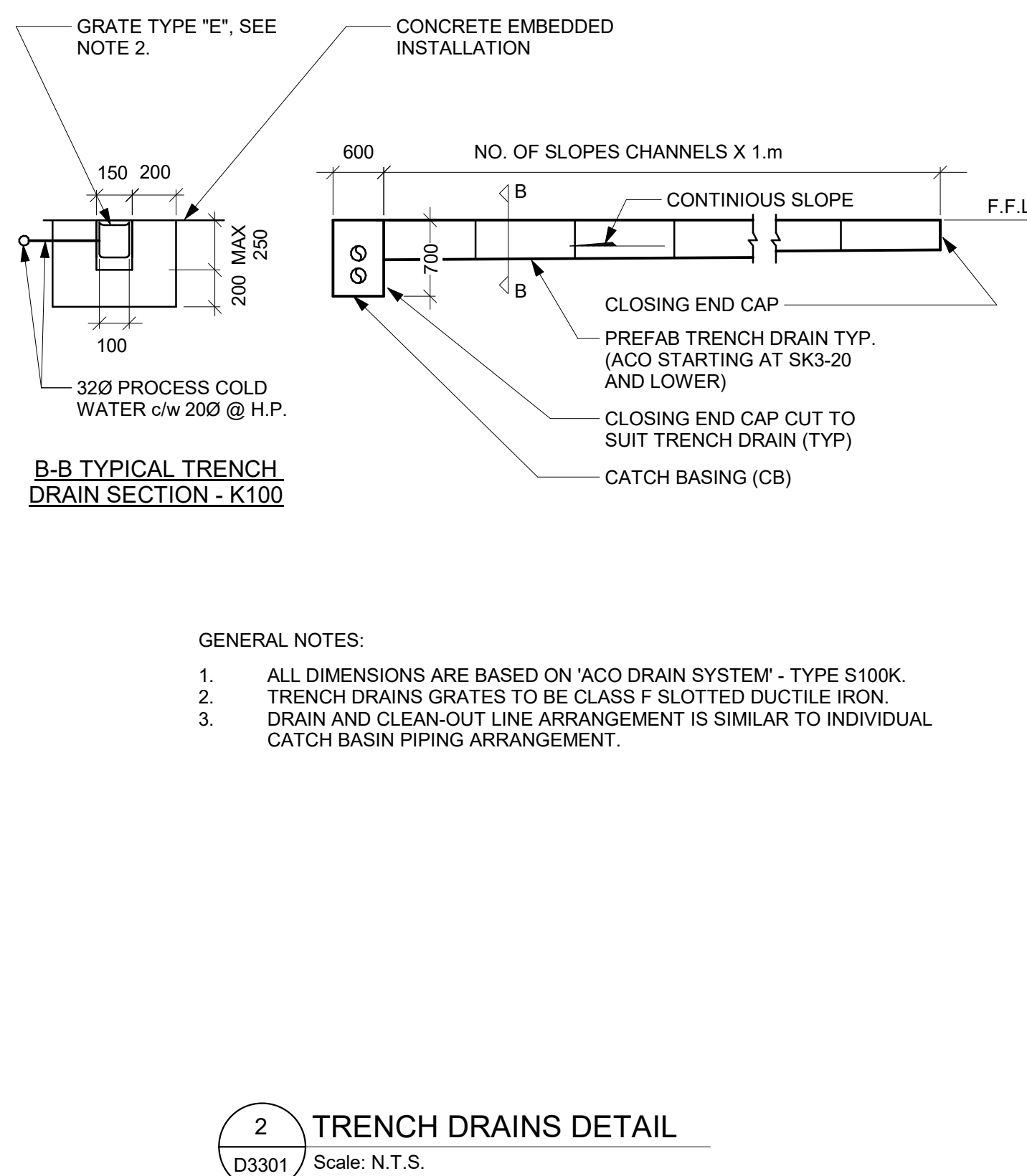
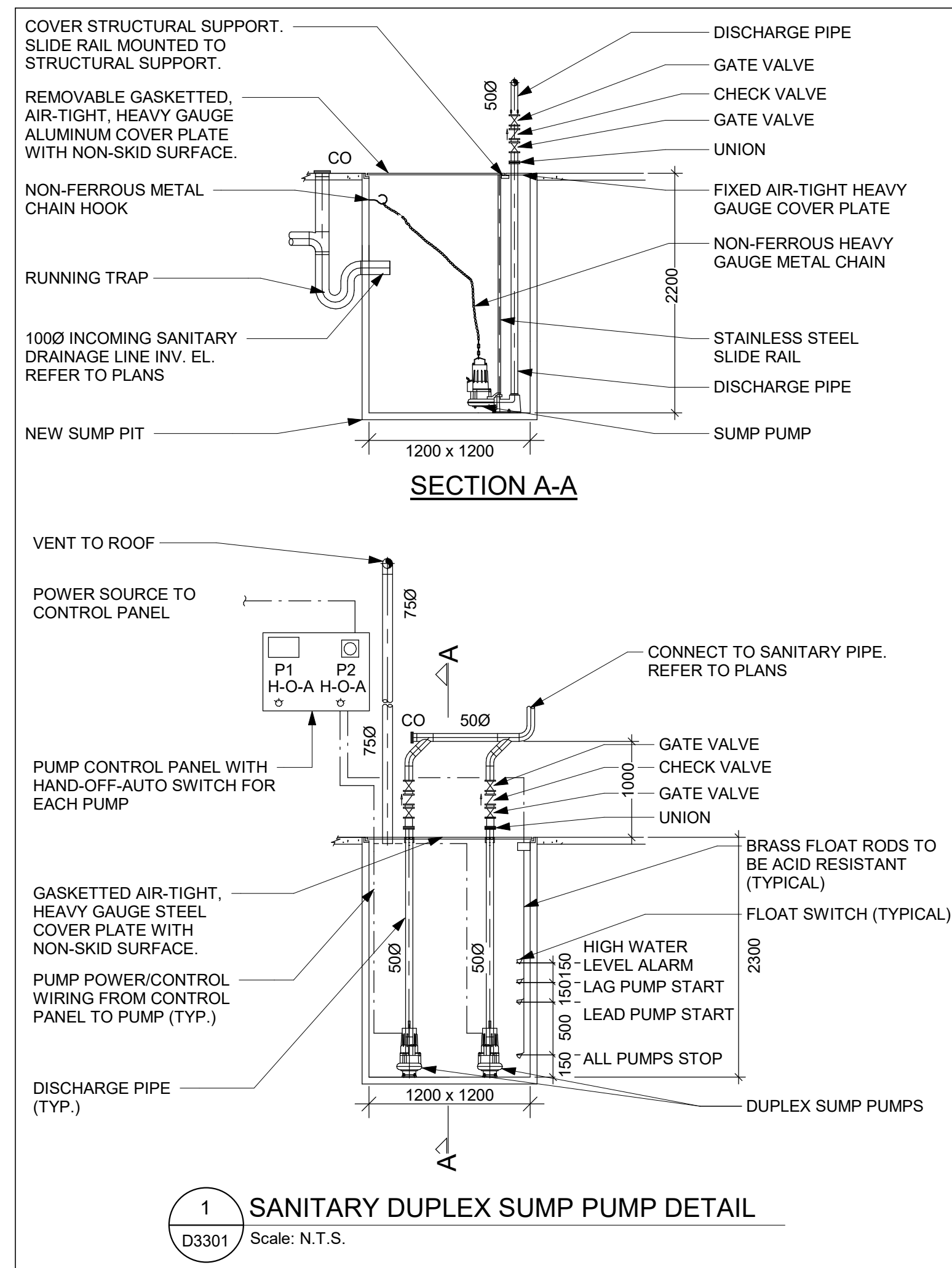
PROJECT MGR:
F. BOLOURIAN

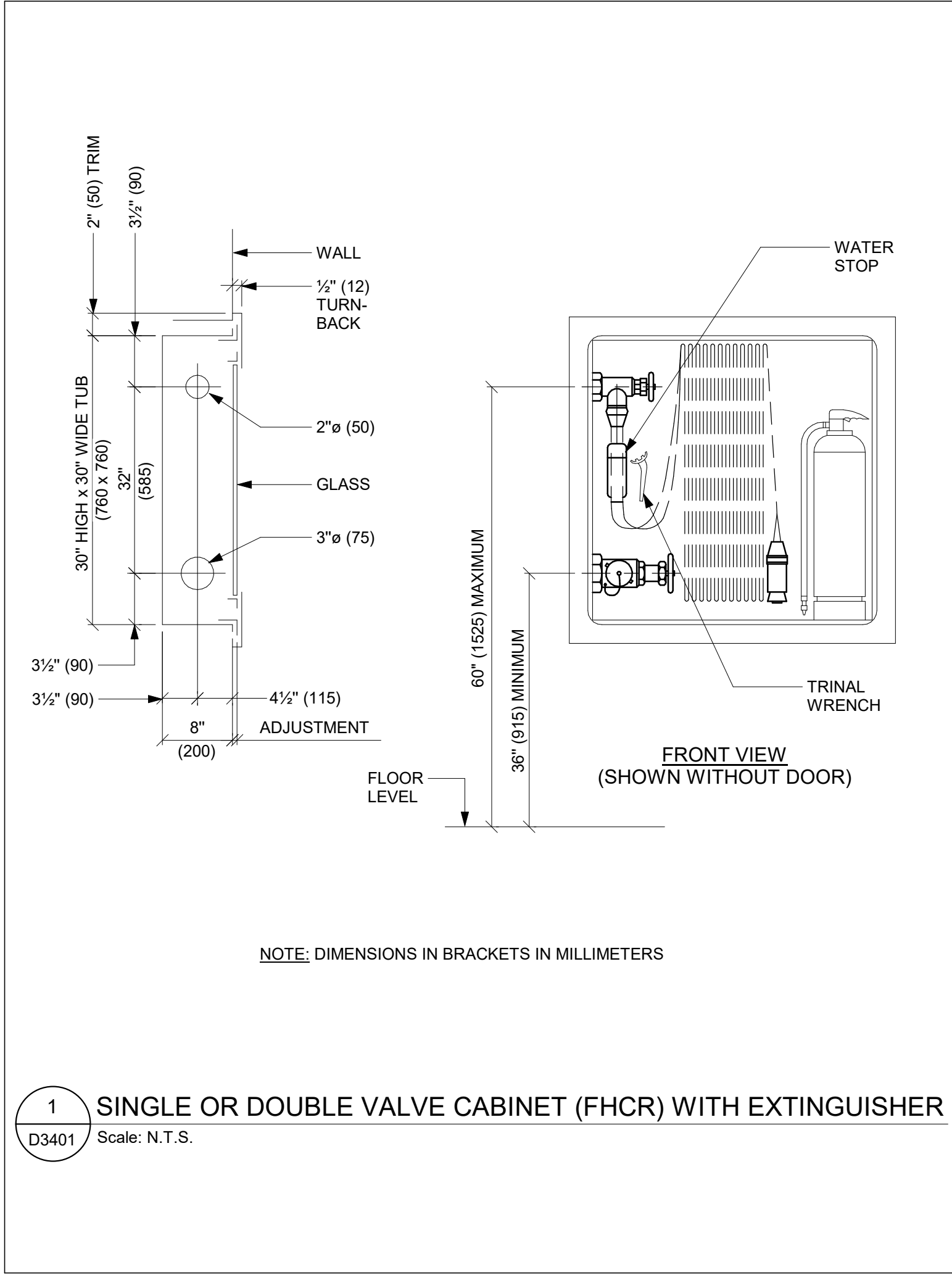
APPROVED BY:
S. LIU

SHEET TITLE
PLUMBING DETAILS

SHEET NUMBER
G05-GAL-D3201

ISSUE
F





ISSUES		
No.	DESCRIPTION	DATE
A.	50% SUBMISSION	2021-11-19
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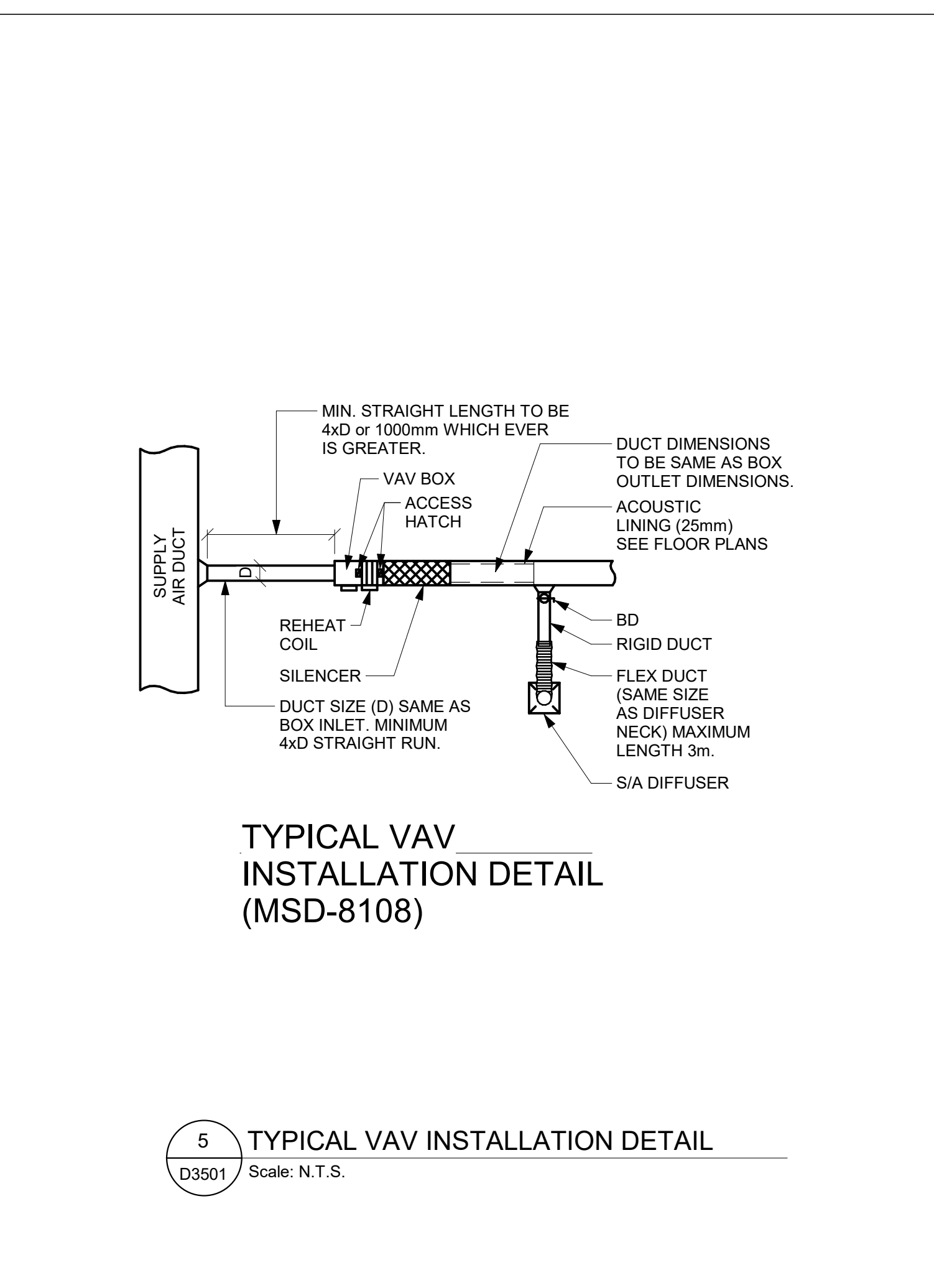
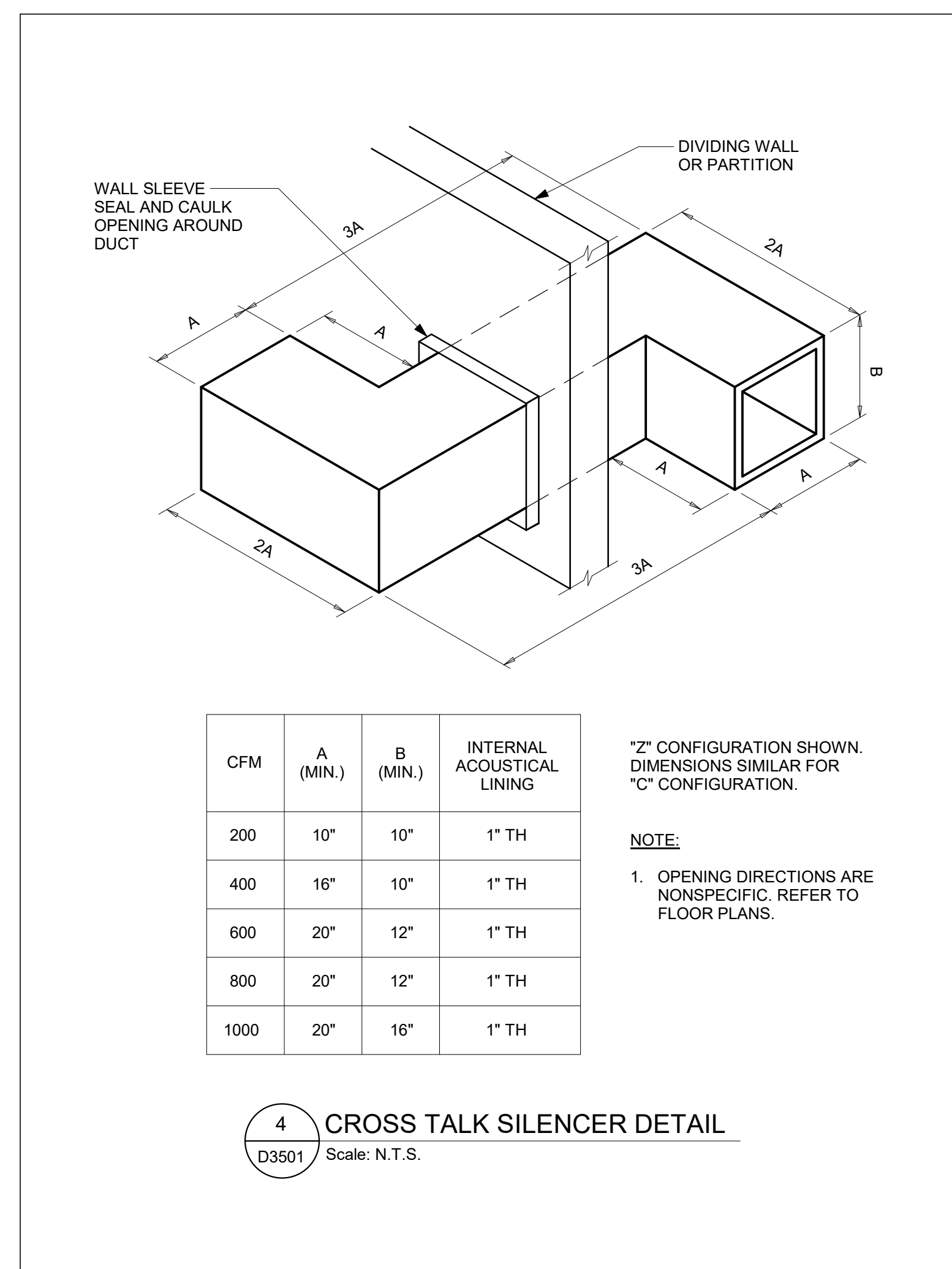
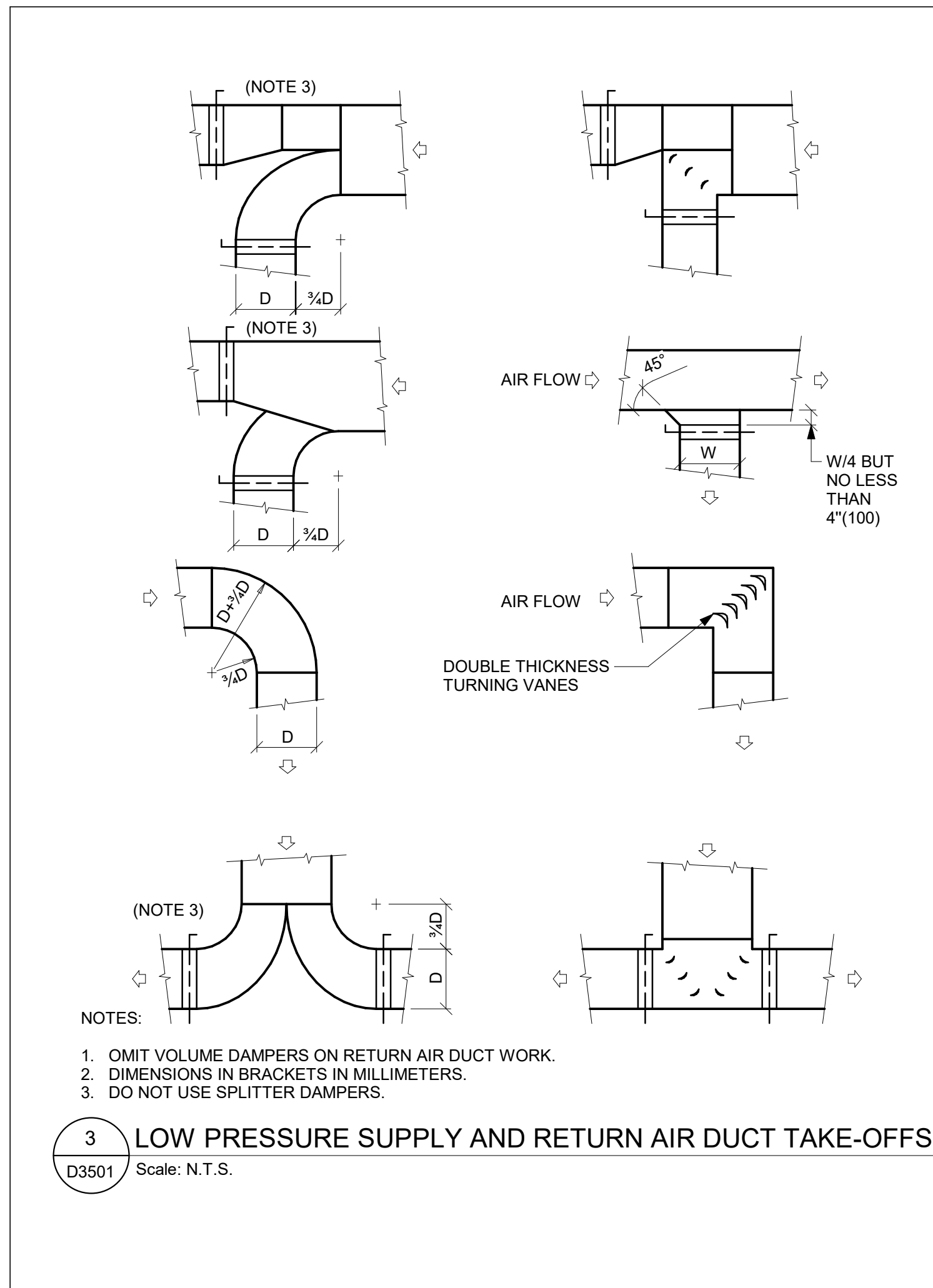
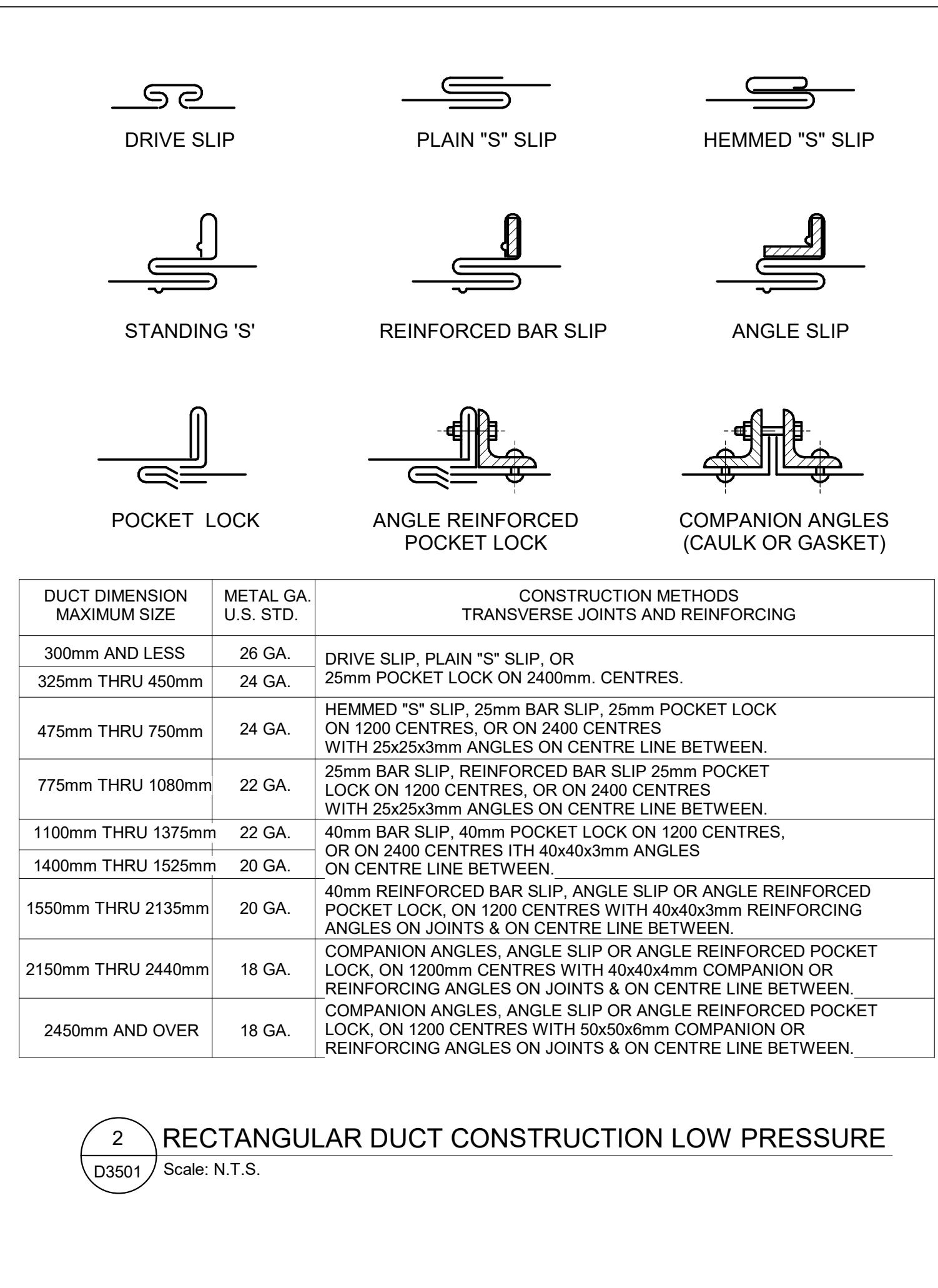
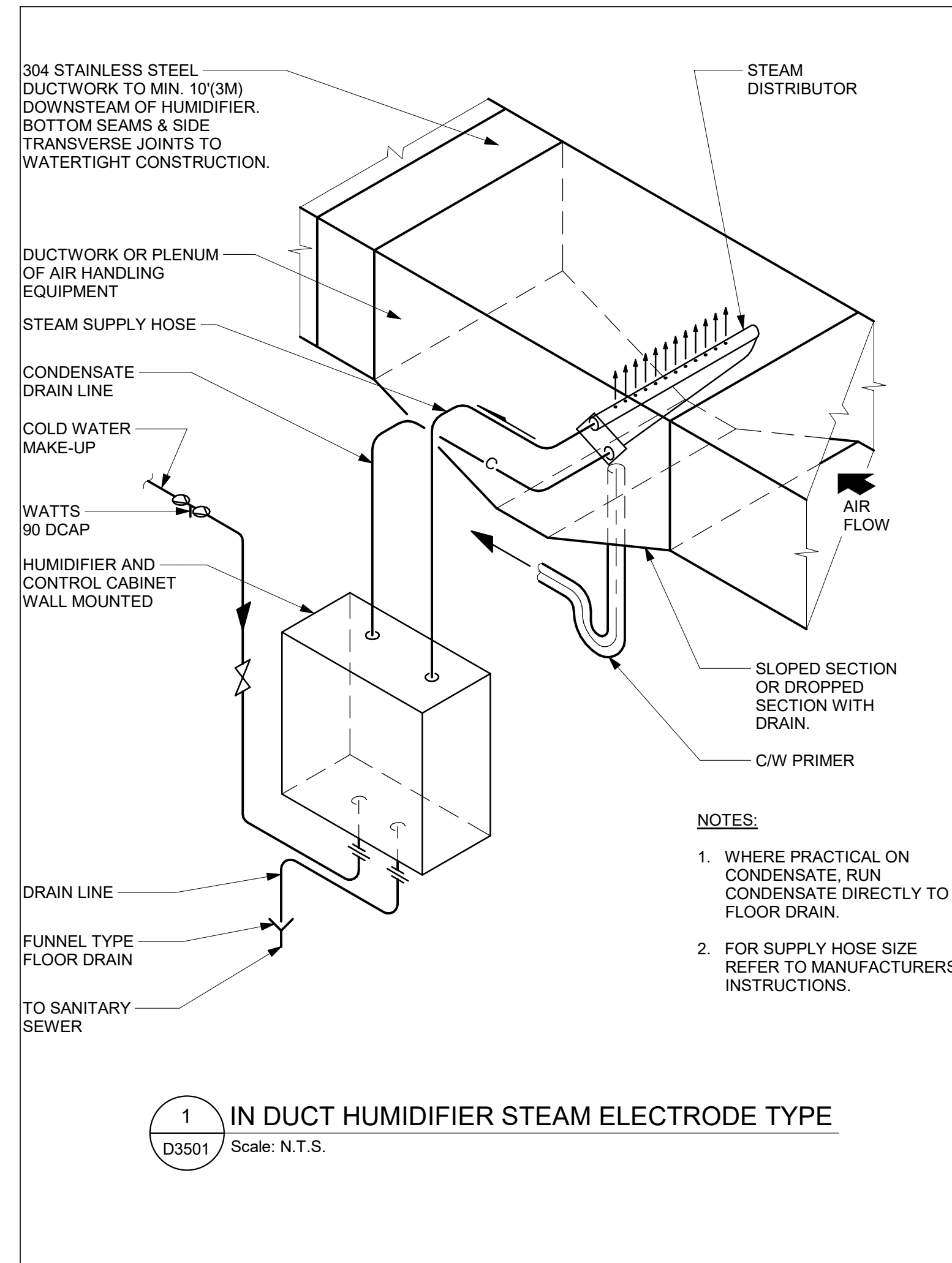
PROJECT TITLE
CITY OF TORONTO
ACCESSIBILITY UPGRADES

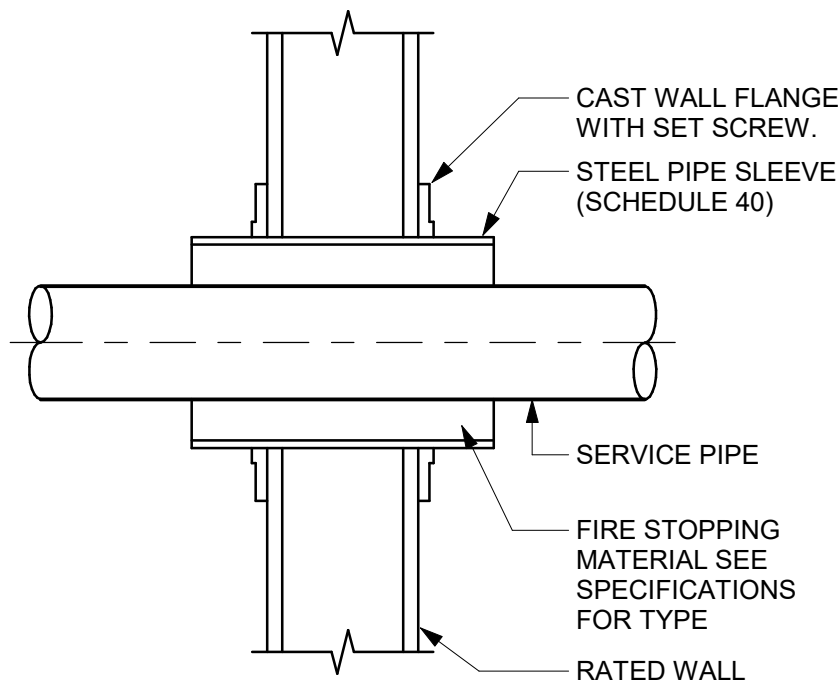
PROJECT ADDRESS

PROJECT NO: 9119- 19- 0162 / Arcadis 30279056	
DRAWN BY: K. DURUKAN	CHECKED BY: B. LIAO
PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. LIU

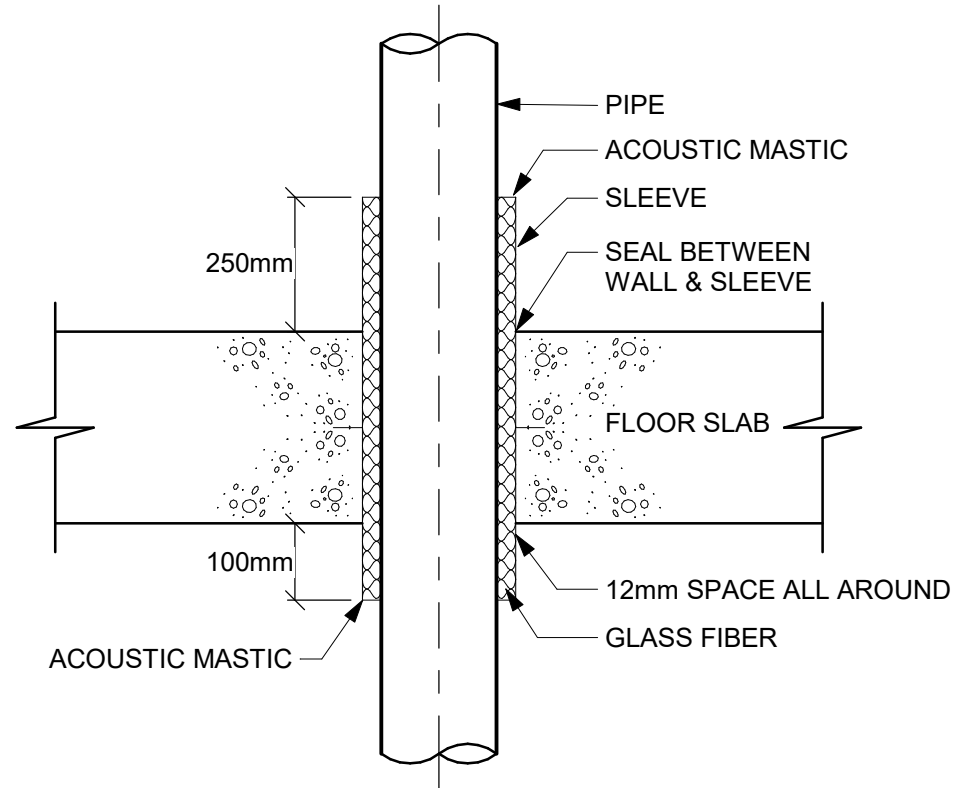
SHEET TITLE
FIRE PROTECTION
DETAILS

SHEET NUMBER G05-GAL-D3401	ISSUE F
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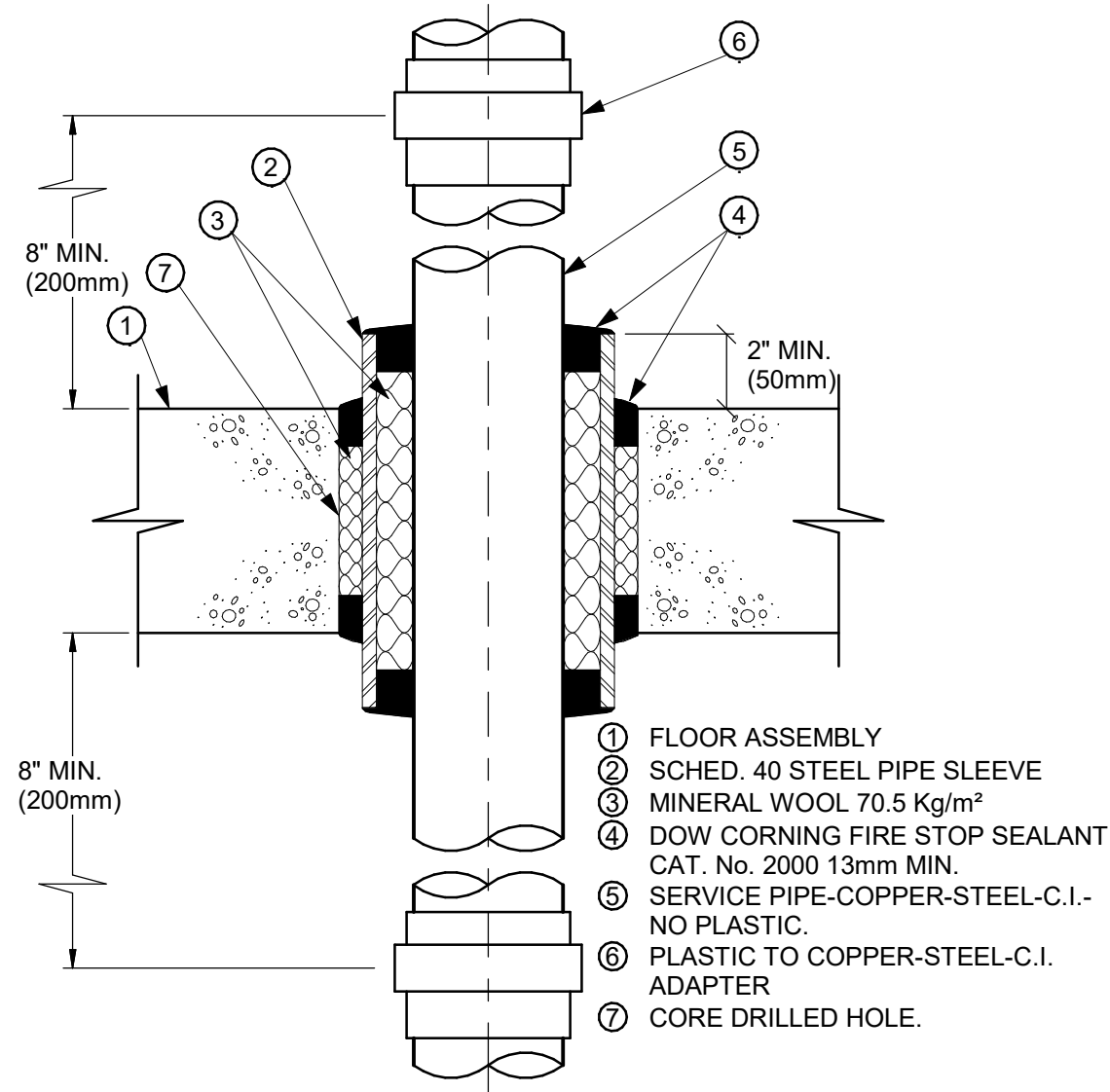




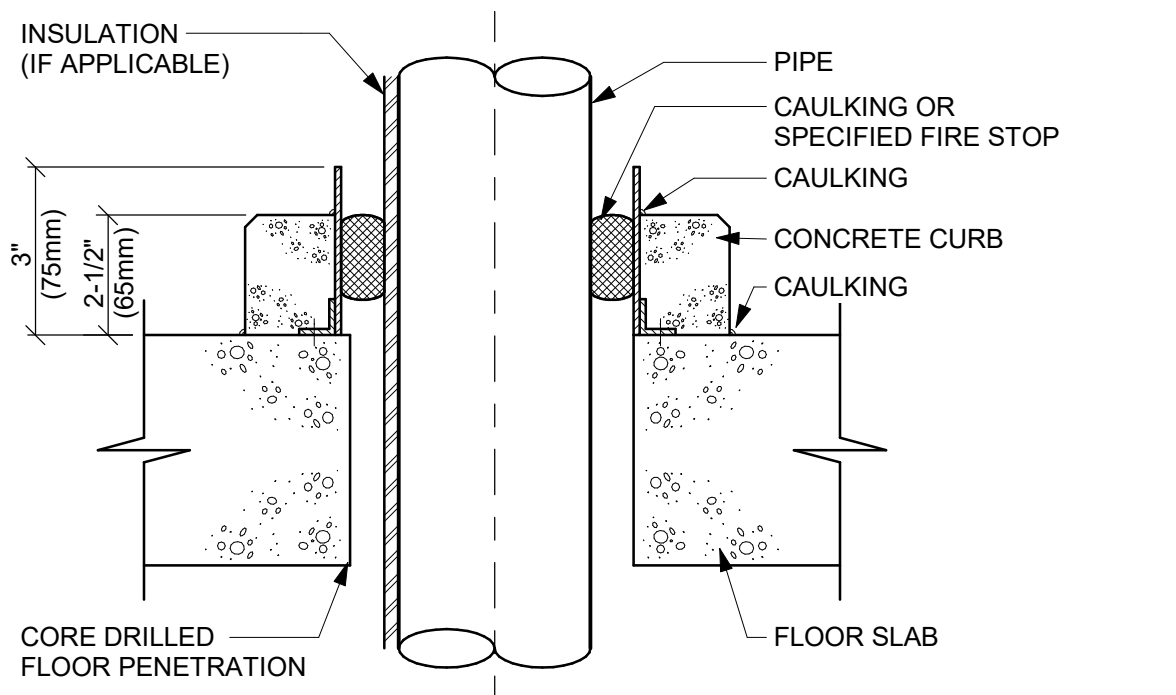
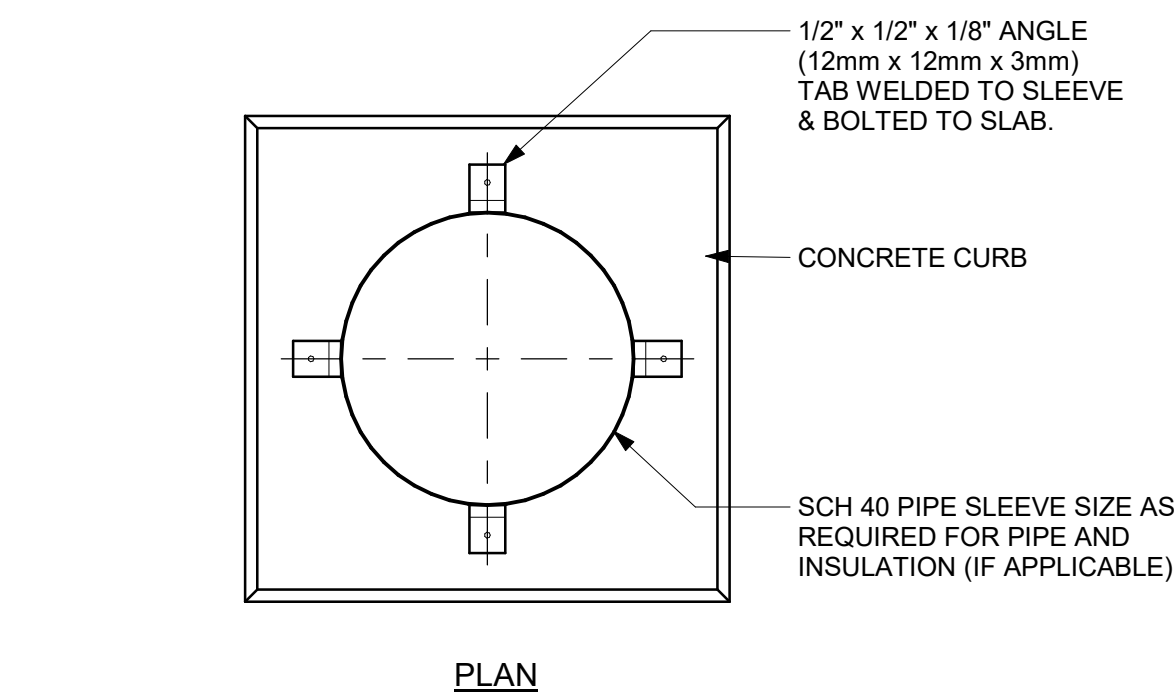
1 SLEEVE THROUGH RATED WALL
D3601 Scale: N.T.S.



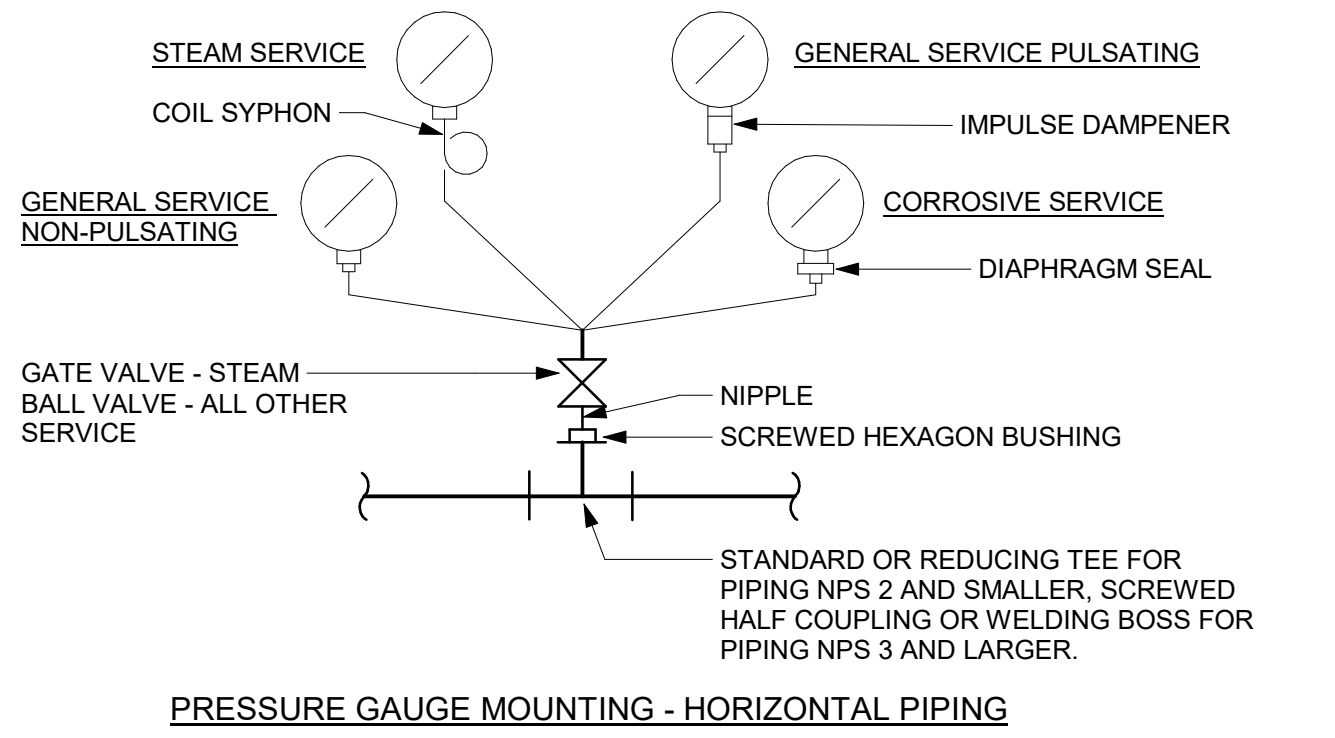
2 ACOUSTIC TREATMENT OF PIPE PENETRATION
OF MECHANICAL ROOM FLOOR SLAB
D3601 Scale: N.T.S.



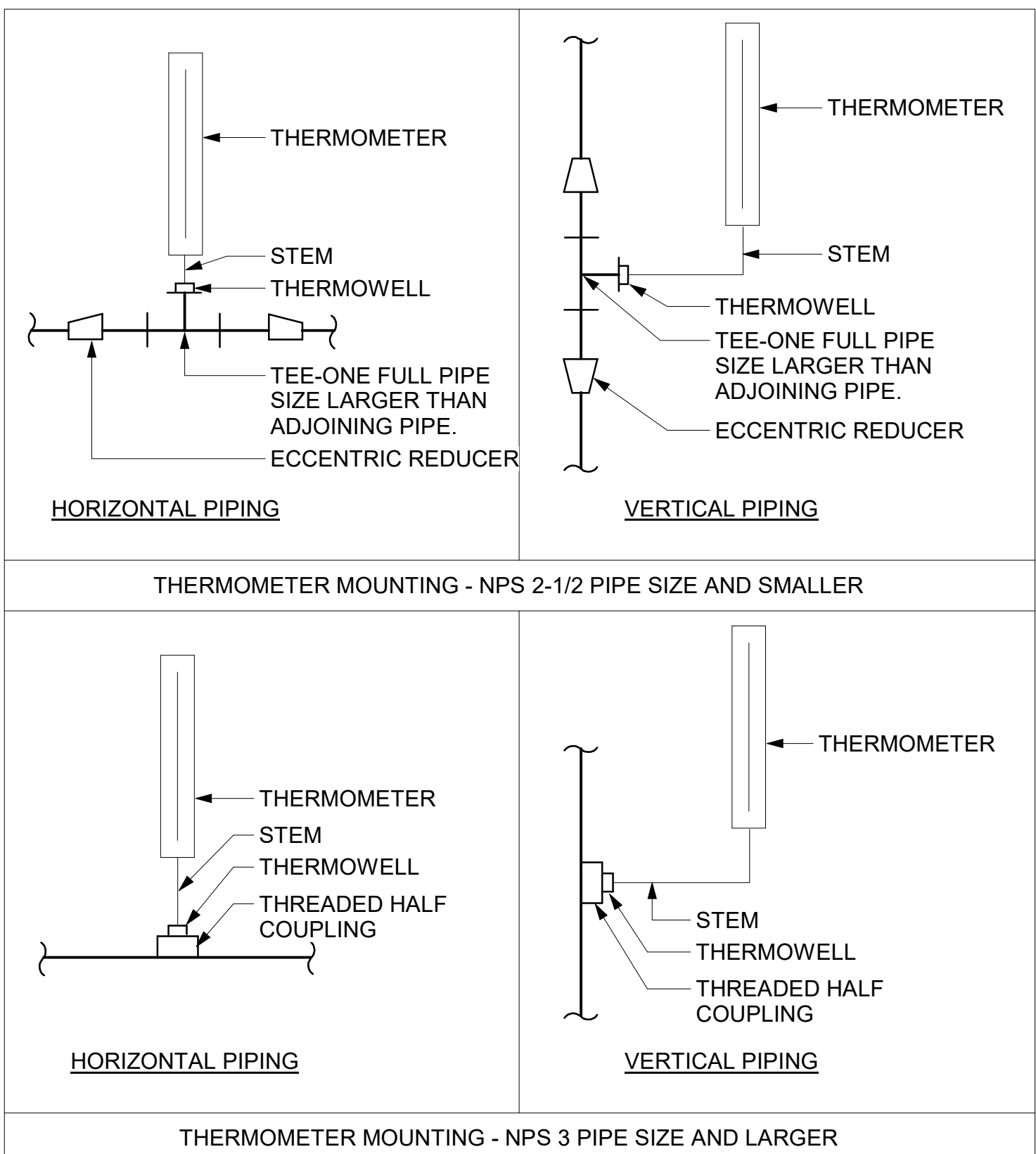
3 PIPE SLEEVE THROUGH FIRE RATED FLOOR SLAB
D3601 Scale: N.T.S.



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



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



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

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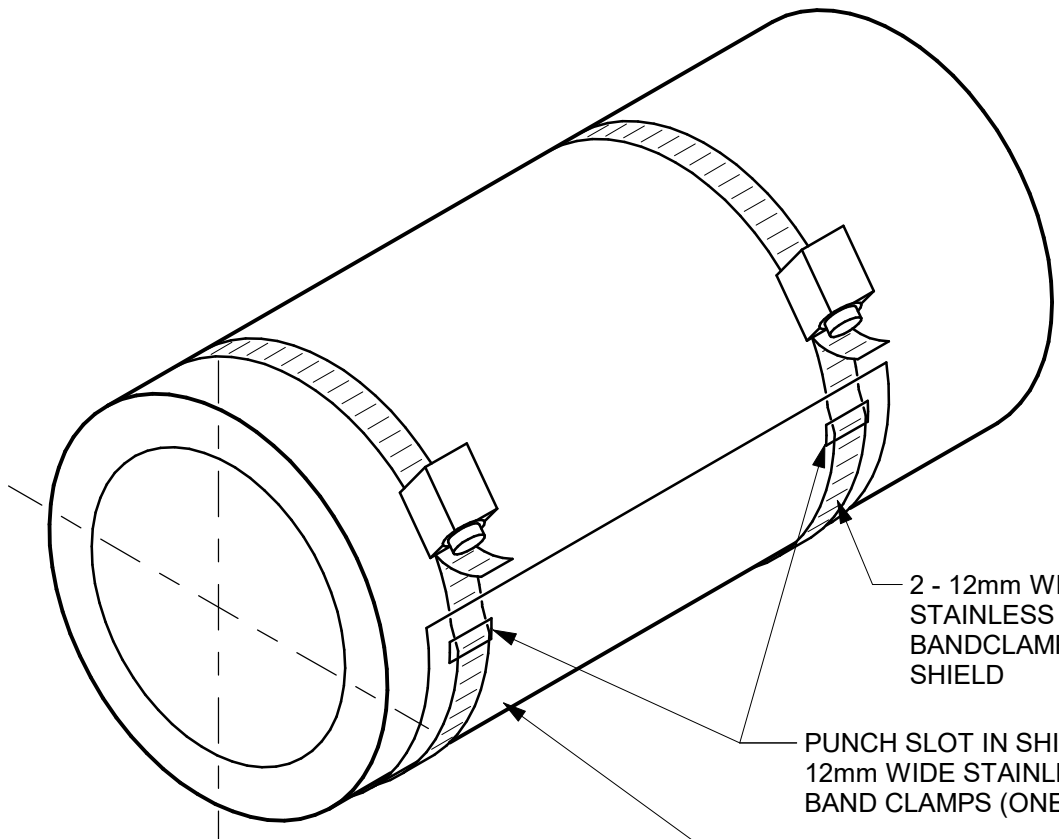
PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

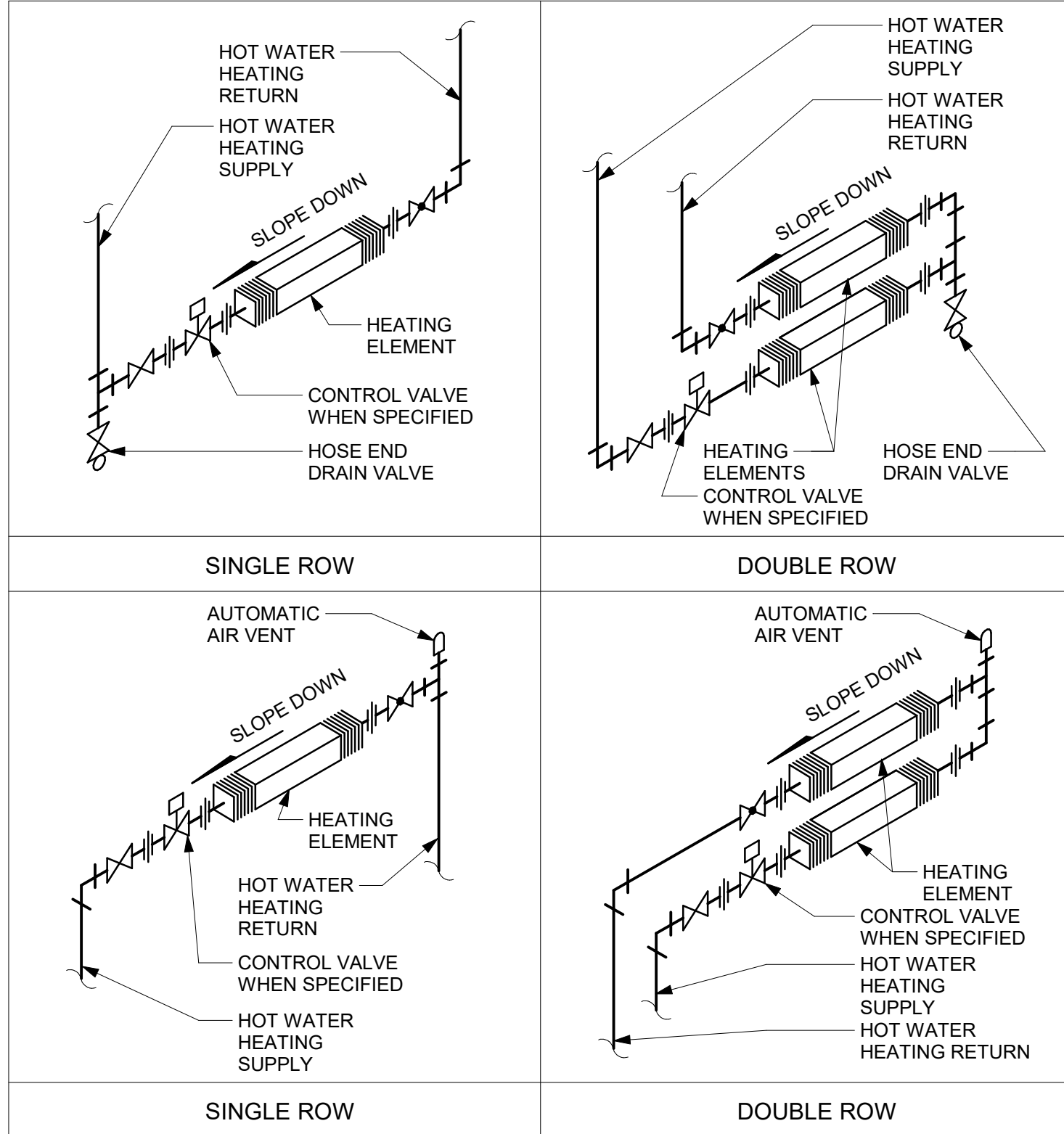
PROJECT NO:
9119- 19- 0162 / Arcadis 30279056
DRAWN BY:
K. DURUKAN
CHECKED BY:
B. LIAO
PROJECT MGR:
F. BOLOURIAN
APPROVED BY:
S. LIU

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

SHEET NUMBER
G05-GAL-D3601
ISSUE
F



1 INSULATION SHIELD INSTALLATION
D3602 Scale: N.T.S.



2 WALL FINNED CONVECTORS: HOT WATER
D3602 Scale: N.T.S.

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PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY: N. KHOURY	CHECKED BY: G. VERNESCU
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. LIU
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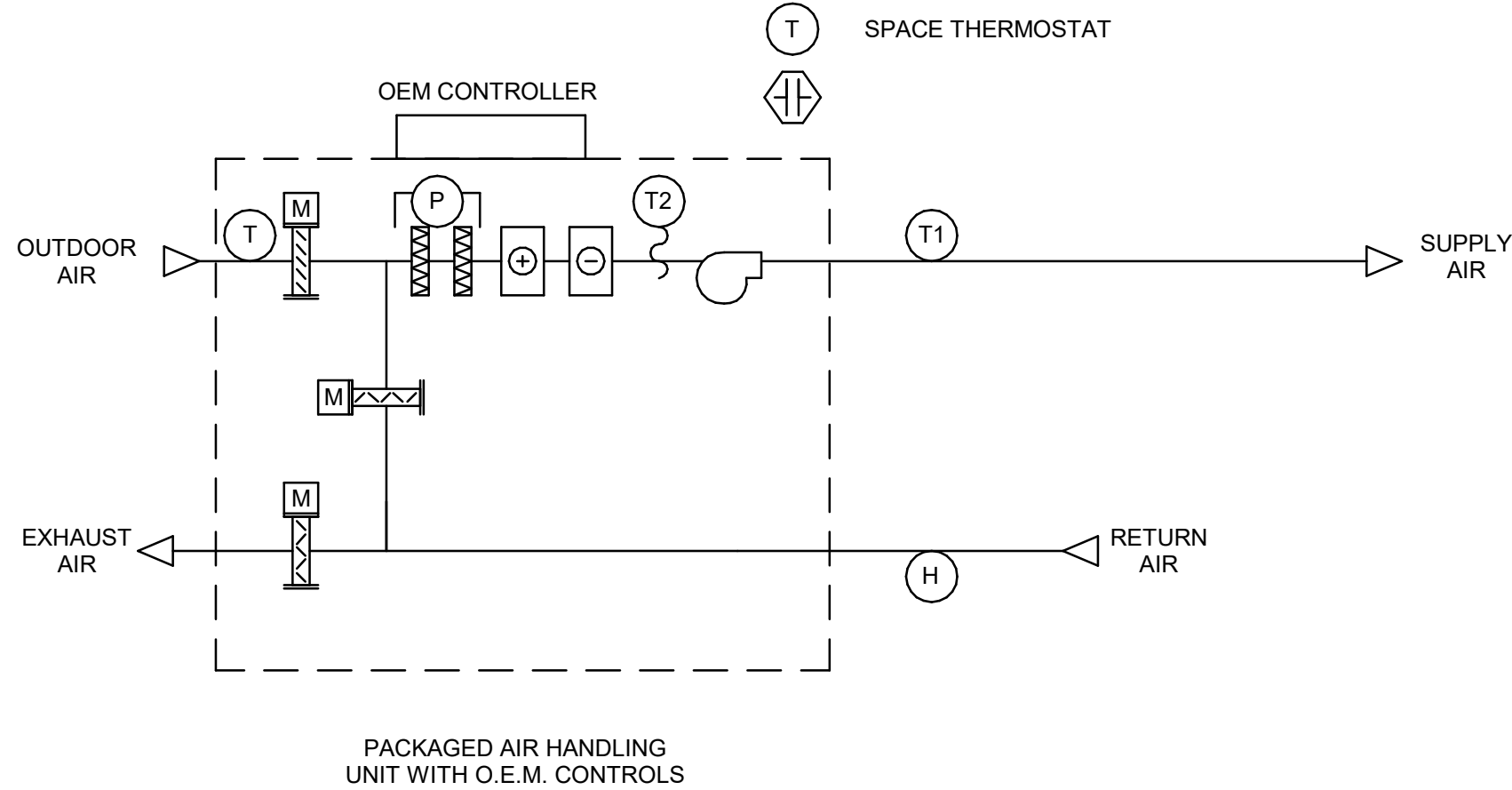
SHEET TITLE
**PIPING DETAILS
SHEET 2 OF 2**

SHEET NUMBER
G05-GAL-D3602

ISSUE
F



5 PACKAGED ROOFTOP HVAC SYSTEM CONTROL SEQUENCE - NO BAS CONTROL
D3701 Scale: N.T.S



SYSTEM START
AIR HANDLING UNIT START-UP ON TIME SCHEDULE

NORMAL OPERATION OEM CONTROL
AIR HANDLING UNIT OPERATES UNDER O.E.M. CONTROL.

TEMPERATURE CONTROL
OEM CONTROL MODULATES OUTDOOR AIR, RETURN AIR AND EXHAUST AIR DAMPERS IN AN AIR-ECONOMIZER CYCLE TO MAINTAIN SPACE AIR TEMPERATURE SETPOINT. MECHANICAL COOLING SUPPLEMENTS THE ECONOMIZER COOLING AS REQUIRED

- SPACE AIR TEMPERATURE SETPOINT: 25°C
- ECONOMIZER CUTOFF TEMPERATURE SETPOINT > 18°C

WHEN RETURN AIR RELATIVE HUMIDITY LEVEL > 55%, STOP AIR-ECONOMIZER CYCLE; START MECHANICAL COOLING.

SYSTEM STOP
OPERATOR INITIATED OR BY OPERATING SCHEDULE.

ON COMMAND OR SCHEDULE STOP ESS, SUPPLY AND RETURN FANS STOP, OUTDOOR AIR AND EXHAUST DAMPERS CLOSE, AND RECIRCULATION DAMPER OPENS.

SCHEDULE
TO BE DETERMINED DURING SYSTEM COMMISSIONING

FIRE ALARM
N/A

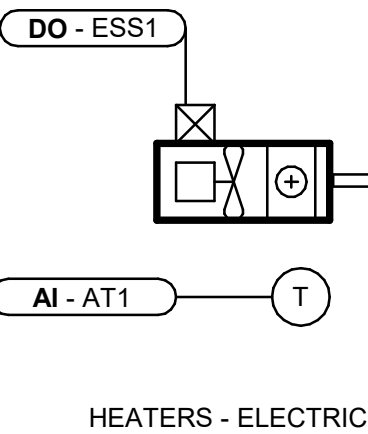
ALARMS
ALARM ON OEM CONTROLLER:

- HIGH FILTER PRESSURE DROP > 2 IN. W.C.
- AIR HANDLING UNIT GENERAL FAULT
- HIGH BUILDING RELATIVE HUMIDITY > 60% RH
- HIGH SPACE AIR TEMPERATURE > 25C
- LOW SPACE AIR TEMPERATURE < 10C

MONITOR
N/A

TREND LOGS
N/A

EMERGENCY POWER
NO



SYSTEM START
B.M.S. ENABLES UNIT HEATER WHEN OUTDOOR AIR TEMPERATURE IS < 10°C

NORMAL OPERATION
SPACE TEMPERATURE SENSOR CYCLES UNIT HEATER ON/OFF TO MAINTAIN SPACE TEMPERATURE SETPOINT [20°C]

SYSTEM STOP
CONTINUOUS OPERATION

SCHEDULE
CONTINUOUS OPERATION

FIRE ALARM
N/A

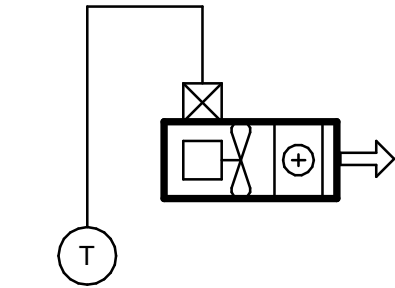
ALARMS
LOW SPACE TEMPERATURE (<10C)

MONITOR
SPACE TEMPERATURE

TREND LOGS
N/A

EMERGENCY POWER
NO

3 ELECTRIC HEATER CONTROL SEQUENCE - WITH BMS
D3701 Scale: N.T.S



SYSTEM START
OPERATOR MANUALLY ENERGIZES THE UNIT HEATER LOCALLY. NO B.M.S. CONTROL

NORMAL OPERATION
HARD-WIRED SPACE TEMPERATURE SWITCH CYCLES UNIT HEATER ON/OFF TO MAINTAIN SPACE TEMPERATURE SETPOINT [20°C]

SYSTEM STOP
CONTINUOUS OPERATION

SCHEDULE
CONTINUOUS OPERATION

FIRE ALARM
N/A

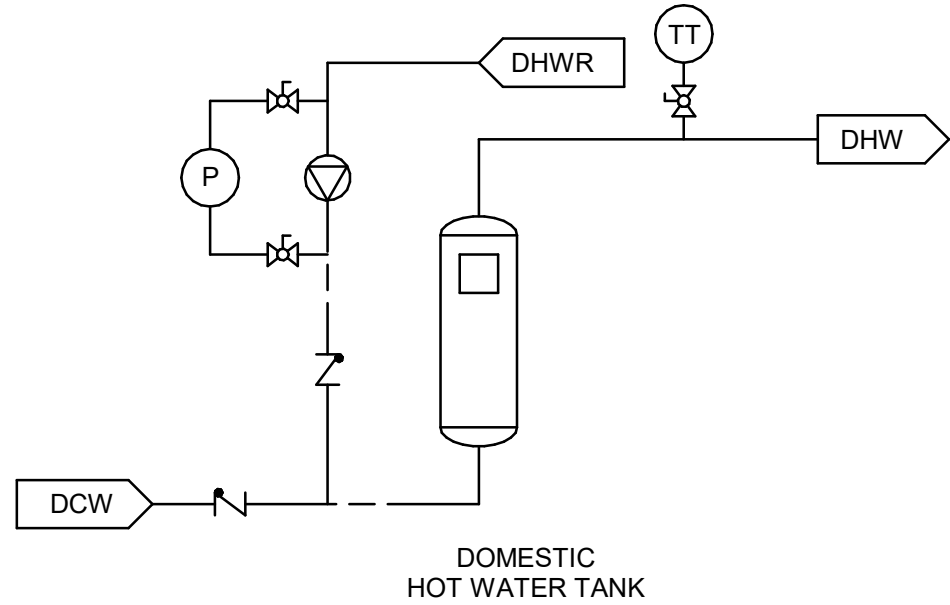
ALARMS
N/A

MONITOR
N/A

TREND LOGS
N/A

EMERGENCY POWER
NO

4 ELECTRIC HEATER CONTROL SEQUENCE - NO BMS
D3701 Scale: N.T.S



SYSTEM START
RECIRCULATION PUMP STARTS. ENABLE HOT WATER TANK

NORMAL OPERATION
WATER HEATER OPERATE UNDER OEM CONTROL TO MAINTAIN WATER LEAVING TEMPERATURE AT 60°C

RECIRCULATION PUMP OPERATES WHEN REMOTE RECIRCULATION WATER TEMPERATURE IS 50°C (ADJUSTABLE) BELOW HOT WATER SUPPLY SET POINT

SYSTEM STOP
RECIRCULATION PUMP STOPS ONLY ON OPERATOR COMMAND

SCHEDULE
OPERATOR DEFINED

DEFAULT = CONTINUOUS OPERATION

FIRE ALARM
N/A

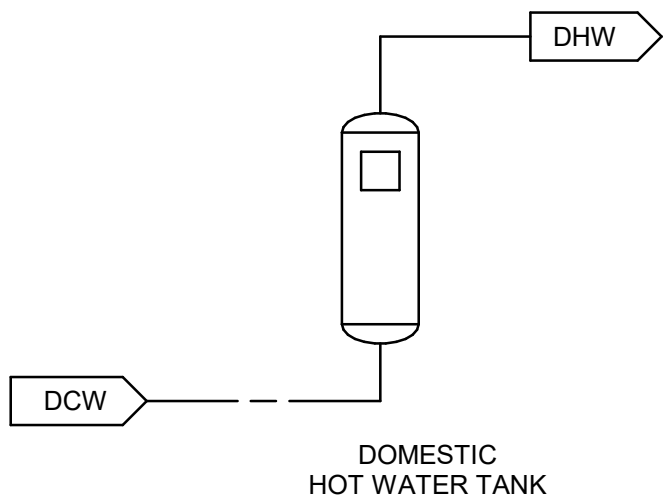
ALARMS
N/A

MONITOR
N/A

TREND LOGS
N/A

EMERGENCY POWER
NO

2 HOT WATER TANK (WITH RECIRCULATION PUMP) CONTROL SEQUENCE - NO BMS CONTROL
D3701 Scale: N.T.S



SYSTEM START
SYSTEM ENABLED ON OPERATOR COMMAND

NORMAL OPERATION
WATER HEATER OPERATE UNDER OEM CONTROL TO MAINTAIN WATER LEAVING TEMPERATURE AT 60°C

SYSTEM STOP
SYSTEM DISABLED ON OPERATOR COMMAND

SCHEDULE
OPERATOR DEFINED

DEFAULT = CONTINUOUS OPERATION

FIRE ALARM
N/A

ALARMS
N/A

MONITOR
N/A

TREND LOGS
N/A

EMERGENCY POWER
NO

1 HOT WATER TANK CONTROL SEQUENCE - NO BMS CONTROL
D3701 Scale: N.T.S

ISSUES		
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E	ISSUED FOR TENDER	2025-04-11

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PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

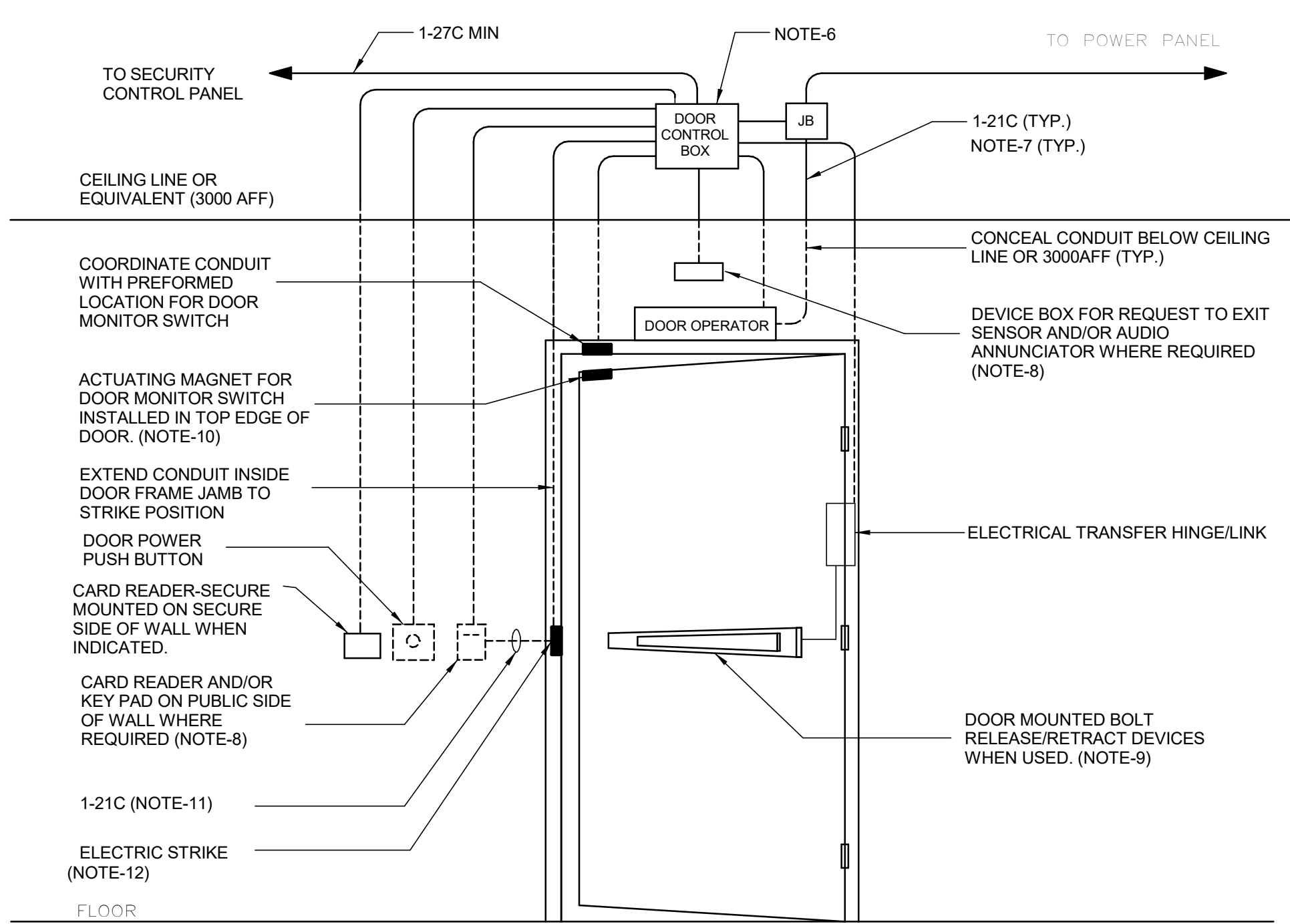
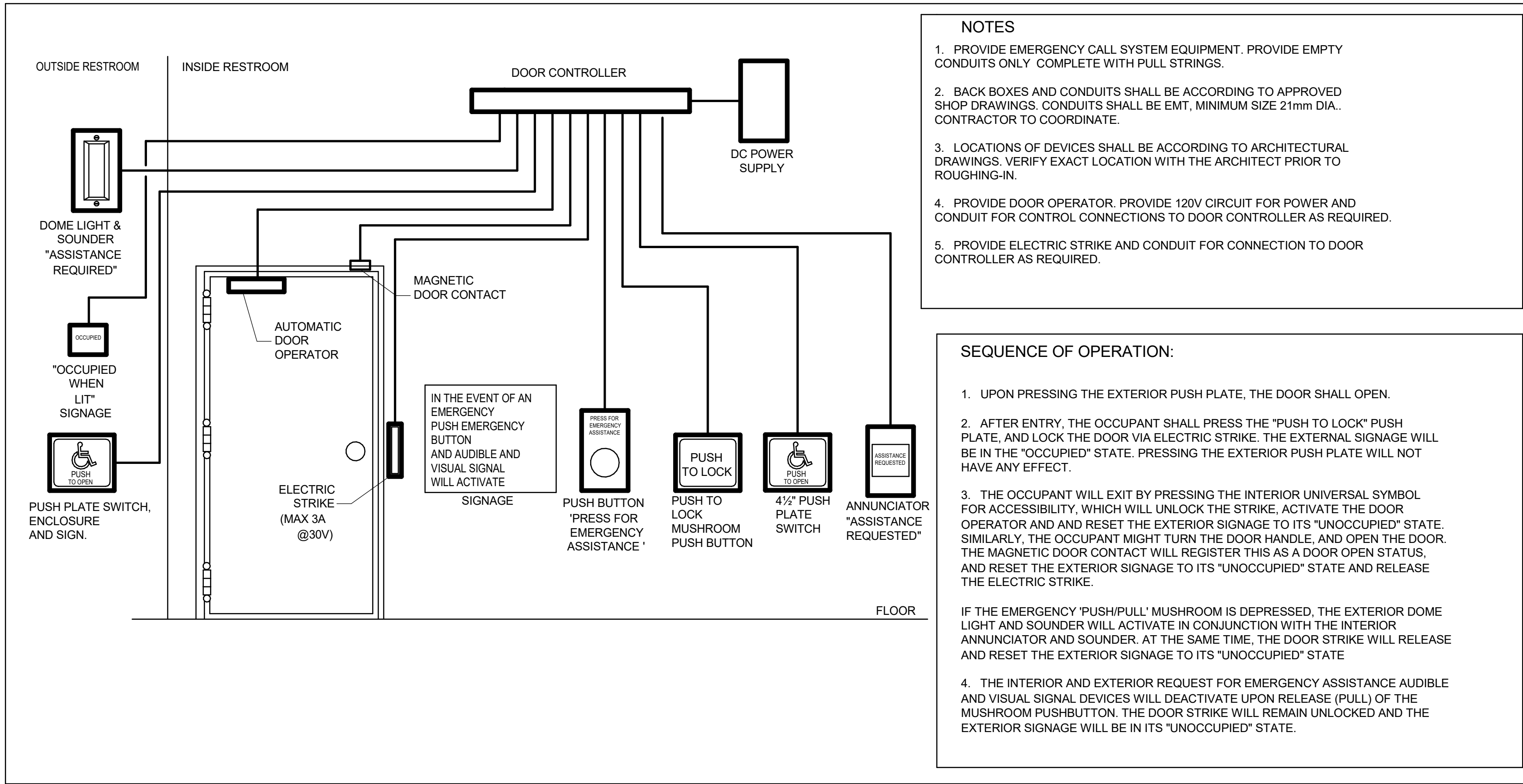
PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

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

SHEET TITLE
CONTROL DETAILS

SHEET NUMBER G05-GAL-D3701	ISSUE E
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- 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

CLIENT

CITY OF TORONTO

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

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PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY: V. MAC	CHECKED BY: M. BOJIC
PROJECT MGR: N. FRISCI	APPROVED BY: P. WILLIAMS

SHEET TITLE
ELECTRICAL DETAILS 1

SHEET NUMBER D4001	ISSUE D
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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	ABOVE COUNTER
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	
MOUNTING HEIGHTS AS APPLICABLE		

1. PROVIDE 1-#6 GND WIRE FOR ALL UNDERGROUND EMPTY CONDUITS AND COMMUNICATIONS CONDUITS WITHOUT METAL WIRING/CABLES TO FACILITATE FUTURE INSTALLATION.
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 UPON FIRE ALARM. SHOULD DETECTOR AT DESIGNATED LEVEL, ELEVATOR LOBBY INDICATE FIRE, ELEVATOR TO BE DIRECTED TO ALTERNATE LEVEL. REFER TO ELEVATOR AUTOMATIC FIRE RECALL 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 INCLUDING UNDERGROUND POWER CONDUITS AND CORRESPONDING PULL POINTS FOR CONCRETE PULL BOXES OR HAND 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.

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

Arcadis Professional Services (Canada) Inc

No.	DESCRIPTION	DATE
A	50% SUBMISSION	2022-01-20
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	ISSUED FOR TENDER	2025-04-11

SEAL

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PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / Arcadis 30279056

DRAWN BY: V. MAC	CHECKED BY: M. BOJIC
----------------------------	--------------------------------

PROJECT MGR: F. BOLOURIAN	APPROVED BY: P. WILLIAMS
-------------------------------------	------------------------------------

SHEET NUMBER
G05-G4003

D

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



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TOUCH AND FEEL

INTERIOR FIXTURES AND MATERIALS

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

Project Number: 9119- 19- 0162 / Arcadis 30279056

Date: 2025-04-11

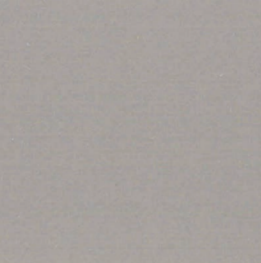
WASHROOM FINISHES	
WASHROOM / SHOWER WALLS	COLLECTION: COLOUR & DIMENSION
CWT-1	COLOUR: ARCTIC WHITE MATTE
	SIZE: 100mm X 400mm (4"X16")
	SUPPLIER: OLYMPIA
WASHROOM / SHOWER WALL ACCENT	MATCH EXISTING
CWT-2	TILE SIZE IS INDICATED ON ROOM FINISH SCHEDULE
WASHROOM / SHOWER WALL ACCENT	COLLECTION: COLOUR & 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	SIZE: 300mm X 600mm (12"X24")
	MEETS DYNAMIC COEFFICIENT OF FRICTION
	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



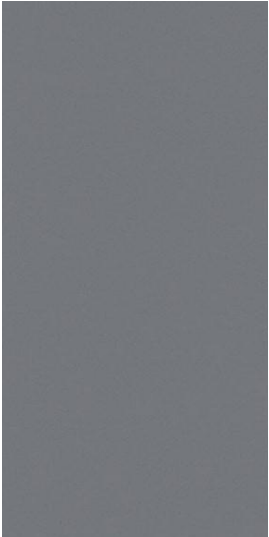
CWT-1



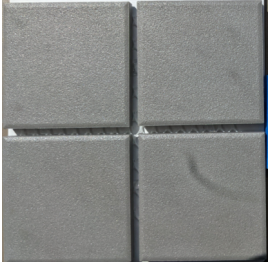
CWT-3



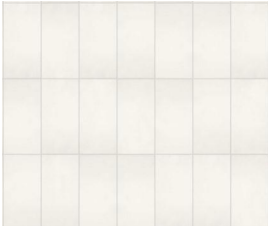
CWT-4



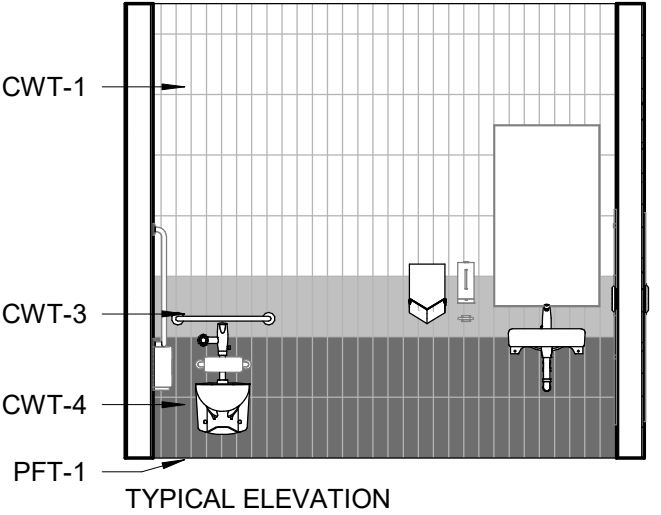
PFT-1



PFT-2



PFT-4



PICTURE 1



PICTURE 2

NOTE: PICTURES ARE ONLY FOR ILLUSTRATION PURPOSES



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DRAWING TITLE:

WASHROOM

Project No: 9119- 19- 0162 / Arcadis 30279056

Date: 2025-04-11

Issue: ISSUED FOR TENDER

NO.

T01

 SHELF: SHLF GAMCO MS-18 STAINLESS STEEL MIRROR SHELF – 18"	 SOAP DISH: SDI-1 RECESSED MOUNTED SOAP DISH, HEAVY DUTY STAIN FINISH STAINLESS STEEL. BRADLEY MODEL NO. SA16	 SOAP DISPENSER: SD-1 WALL MOUNTED, AUTOMATIC STAINLESS STEEL WITH STAIN FINISH, CLEAR ACRYLIC REFILL INDICATOR WINDOW AND KEY LOCK. BRADLEY 6A00-11.	 L-SHAPED GRAB: GRB-1 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)	 L-SHAPED GRAB: GRB-2 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)
	 SOAP DISH: SDI-2 SURFACE MOUNTED, STAINLESS STEEL, TYPE 304 FLANGE. BRADLEY MODEL NO. 901	 SOAP DISPENSER: SD-2 COUNTER MOUNTED, TOUCH FREE, ONE PIECE, CAST BRASS CONSTRUCTION ABOVE DECK, SINGLE MOUNT FOAM SOAP DISPENSER WITH ADJUSTABLE SENSOR. MOEN, MODEL NO. 8560		
COAT HOOK: CTH-1 B-983 STAINLESS STEEL, 14- GAUGE AUTO-RELEASE CLOTHES HOOK WITH EXPOSED STAIN FINISH, FACEPLATE WITH SLOPED EDGES. 	 HAND DRYER: HNDR DYSON SPRAYED NICKEL 307174-01, NET WEIGHT: 2.9 KG / 6.17 LBS. H:39.3CM X W:19CM X D:10CM			
COAT HOOK: CTH-2 B-2116 12-GAUGE (2.7mm) CASE HARDENED STEEL. ONE PIECE BRASS CASTING WITH SATIN NICKEL-PLATED FINISH 				
 TOILET TISSUE DISPENSER: TPD SURFACE-MOUNTED TWIN JUMBO-ROLL B-2892: 18-8, TYPE-304, 20-GAUGE (1.0MM) STAINLESS STEEL WITH SATIN- FINISH. EQUIPPED WITH A TUMBLER LOCK KEYED LIKE OTHER BOBRICK WASHROOM ACCESSORIES.	 MIRROR: MIR 6 MM" FLOAT GLASS, SELECTED FOR SILVERING, ELECTROLYTICALLY COPPER-PLATED BY GALVANIC PROCESS FURNISH UNITS IN TYPE 430 STAINLESS STEEL FRAMING	GRAB BAR: GRB-3 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)	GRAB BAR: GRB-4 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)	GRAB BAR: GRB-5 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)



PAPER TOWEL DISPENSER & WASTE RECEPTACLE: PTD/WR (SR)
SEMI-RECESSED B-38032: 18-8, TYPE 304, HEAVY-GAUGE STAINLESS STEEL. ALL-WELDED CONSTRUCTION.



PAPER TOWEL DISPENSER AND WASTE RECEPTACLE: PTD/WR (R)
RECESSED CONVERTIBLE B-3940: 18-8, TYPE 304, HEAVY-GAUGE STAINLESS STEEL. EXPOSED SURFACES HAVE STAIN-FINISH.



PAPER TOWEL DISPENSER AND WASTE RECEPTACLE: PTD/WR (S)
SURFACE-MOUNTED B-3699: 18-8, TYPE 304, 22-GAUGE (0.8mm) STAINLESS STEEL. ALL-WELDED CONSTRUCTION. EXPOSED SURFACES HAVE STAIN-FINISH.



PAPER TOWEL DISPENSER: PTD (S)
SURFACE MOUNTED B-2974: TYPE 304, 18 GUAGE STAINLESS STEEL. ALL-WELDED CONSTRUCTION.



PAPER TOWEL DISPENSER: PTD (R)
RECESSED B-35903: TYPE 304, HEAVY-GAUGE STAINLESS STEEL. ALL-WELDED CONSTRUCTION. EXPOSED SURFACES HAVE STAIN-FINISH.



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DRAWING TITLE:

WASHROOM ACCESSORIES

Project No: 9119- 19- 0162 / Arcadis 30279056

Date: 2025-04-11

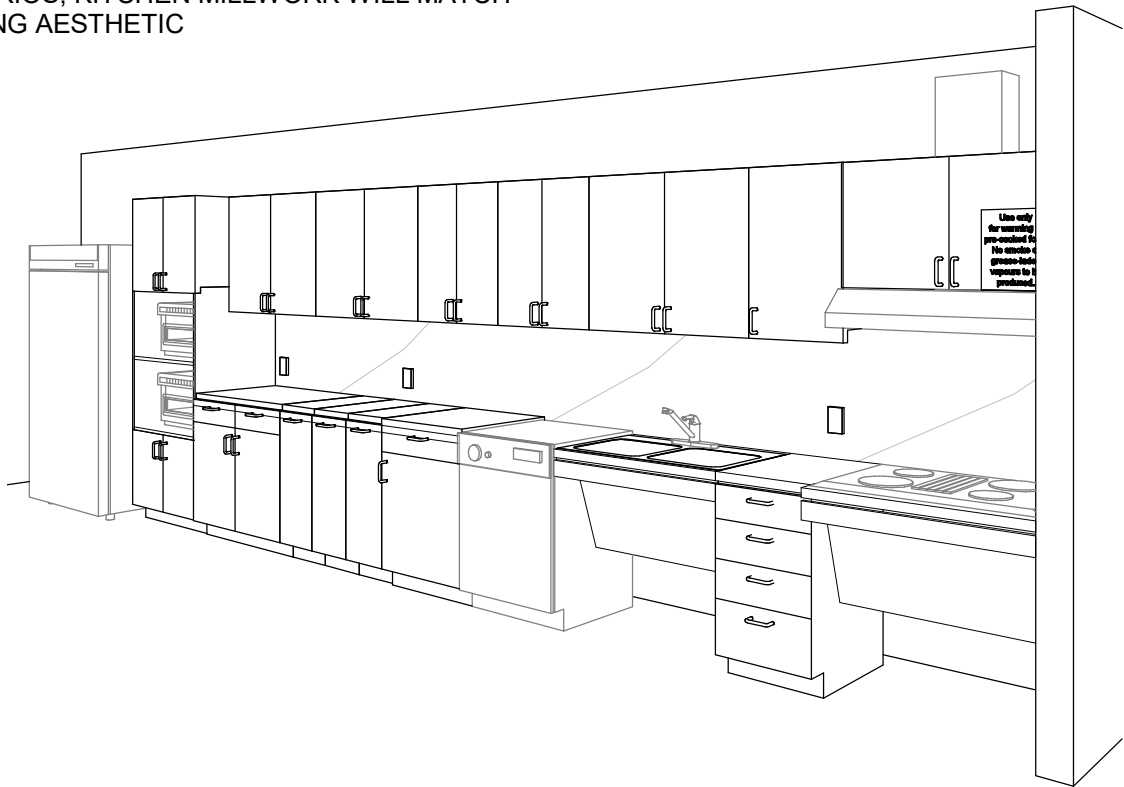
Issue: ISSUED FOR TENDER

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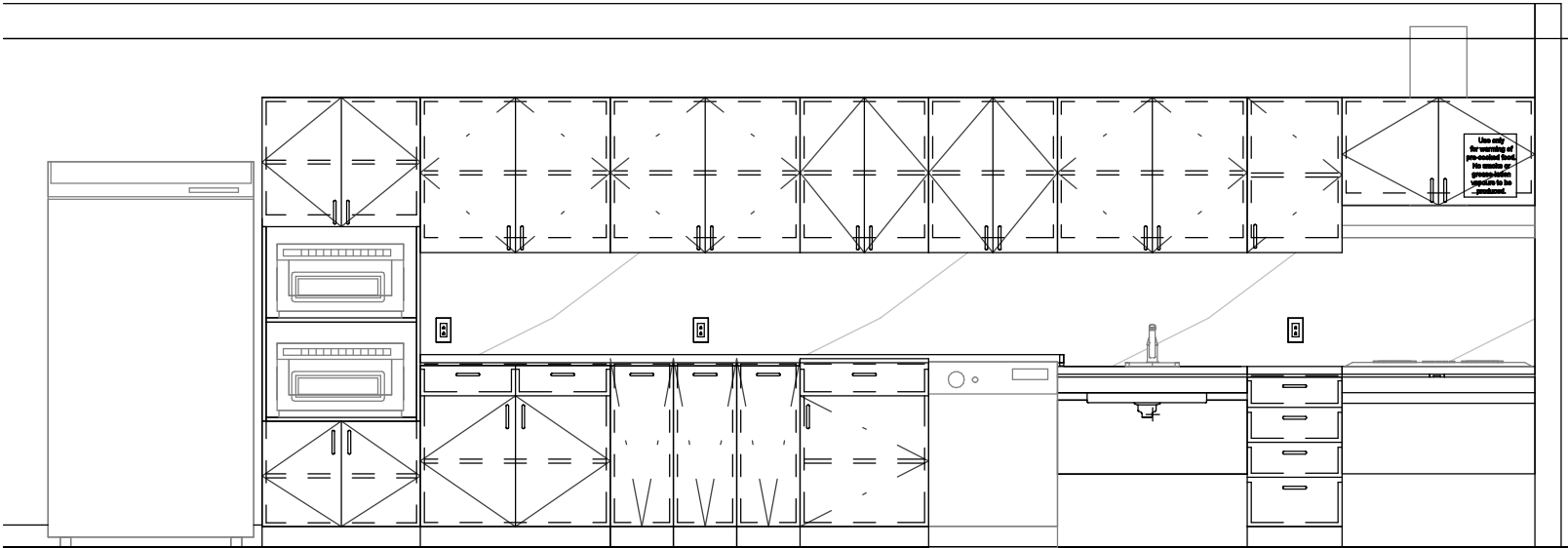
T02.1

					<div>DRINKING FOUNTAIN</div> 
WALL MOUNTED SINK: (BARRIER FREE USE) L1H DECORUM WALL HUNG LAVATORY WITH EVERCLEAN 9024.001EC.020 - VITREOUS CHINA, WHITE FINISH, WITH SINGLE FAUCET HOLE AND OVERFLOW	COUNTER-MOUNTED SINK: L1 WHITE, SELF-RIMMING, REAR/FRONT OVERFLOW, DRILLED FOR 100 MM SUPPLY FITTING. AMERICAN STANDARD "AQUALYN" #0475.047.020 518 X 441 MM	COUNTER-MOUNTED SINK: (BARRIER FREE USE) L2H 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	WALL MOUNTED SINK C/O WITH SHROUD: (BARRIER FREE USE) L3H DECORUM WALL HUNG LAVATORY WITH EVERCLEAN NO. 9134.001EC/0059.020EC SHROUD - VITREOUS CHINA, WHITE FINISH, WITH SINGLE FAUCET HOLE AND OVERFLOW	UNDER-MOUNTED SINK: (BARRIER FREE USE) L4H WHITE, FOR BARRIER FREE USE WITH REAR OVERFLOW AND UNDERMOUNT CLIPS AMERICAN STANDARD OVALYN UNICERSAL ACCESS 9482.000 489 X 400MM	DRINKING FOUNTAIN: DF 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.
FAUCET: TO BE USED WITH ALL LAVATORY TYPES MOEN ALIGN SENSOR FAUCET - 8559 ELECTRONIC 'NO-TOUCH' HARDWIRED POWERED FAUCET					
					
TOILET: W1H <u>WALL HUNG</u> - WHITE FINISH - VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE. NO. 3351.101.002	TOILET: W2H <u>FLOOR MOUNTED</u> WHITE FINISH - VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE. NO. 3461.001.020	TOILET WITH TANK: W3H <u>FLOOR MOUNTED</u> WHITE FINISH - VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE. PA TANK, 1.1 GPF WHITE	URINAL: U1H WALL HUNG 6590.001.020 - WASHBROOK FLOWISE - EXTENDED SIDES FOR PRIVACY - WASHDOWN ACTION - FLUSHING RIM - 19 MM DIA.		
<div>ARCADIS</div> <div>100 - 175 Galaxy Blvd, Toronto, ON M9W 0C9, Canada tel 416 679 1930 www.arcadis.com</div>	<div>Toronto</div> <div>CITY OF TORONTO ACCESSIBILITY UPGRADES CITY OF TORONTO ACCESSIBILITY UPGRADES</div>	DRAWING TITLE: WASHROOM FIXTURES & DRINKING FOUNTAIN		Project No: 9119- 19- 0162 / Arcadis 30279056 Date: 2025-04-11 Issue: ISSUED FOR TENDER	NO. T03

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

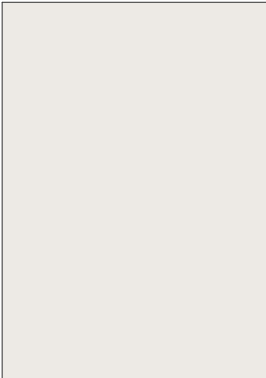
PERSPECTIVE & ELEVATION VIEWS ARE REPRESENTATIVE ONLY - REFER TO BUILDING-SPECIFIC DRAWINGS



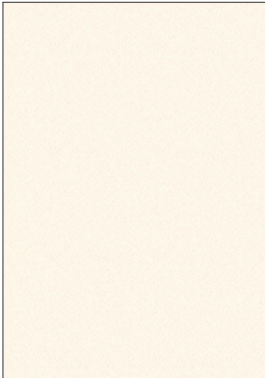
COUNTERTOP AND BACKSPLASH: Q-1
CAESARSTONE - QUARTZ
SUPERNATURAL COLLECTION
1111 VIVID WHITE



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 / Arcadis 30279056

Date: 2025-04-11

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T04

RESERVED

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DRAWING TITLE:

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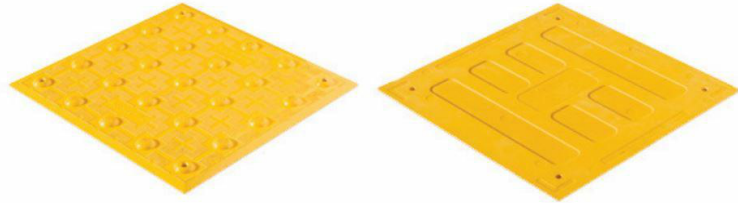
Project No: 9119- 19- 0162 / Arcadis 30279056

Date: 2025-04-11

Issue: ISSUED FOR TENDER

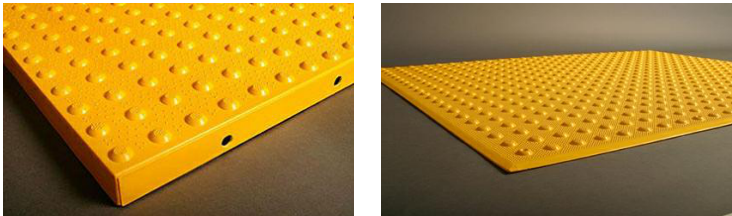
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T05



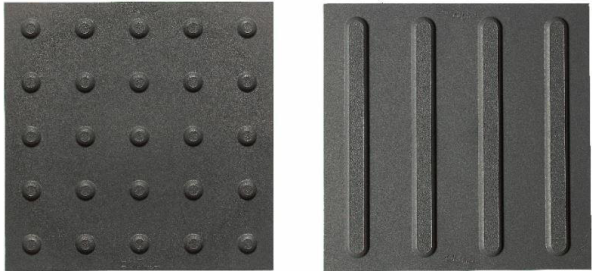
TA - 1a (SURFACE MOUNTED) INTERIOR AND EXTERIOR
TA - 1b (CAST IN PLACE) EXTERIOR
TA - 1c (SURFACE MOUNTED FIRE RATED) INTERIOR

- POLYMER, COMPOSITE TACTILE INDICATORS
- SURFACE APPLIED SUITABLE FOR INTERIOR APPLICATIONS
 - FIRE RATED TILES FOR INTERIOR APPLICATIONS HIGHER THAN 6 FLOORS
 - CAST IN PLACE SUITABLE FOR EXISTING



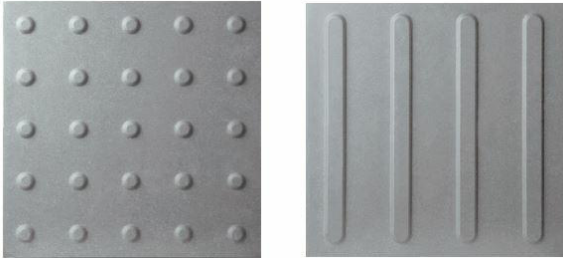
TA - 2a (SURFACE MOUNTED) INTERIOR AND EXTERIOR
TA - 2b (CAST IN PLACE) EXTERIOR

- ENGINEERED POLYMER COMPOSITE TACTILE INDICATORS
- EXTERIOR APPLICATIONS
 - FOR NEWLY CONSTRUCTED CURBS RAMPS, STAIRS, RAMPS, OR PLATFORM EDGES



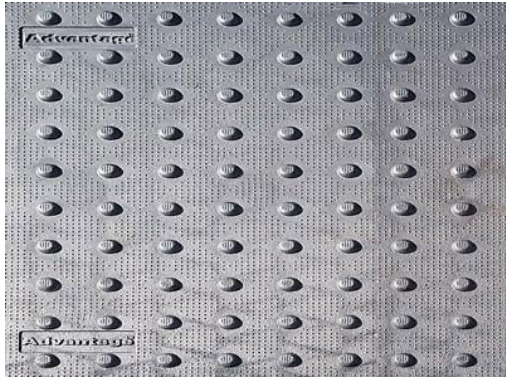
TA - 3

- RESILIENT POLYMER TACTILE INDICATORS
- INTERIOR OR EXTERIOR APPLICATIONS
 - TRUNCATED DOME OR WAYFINDING BAR VARIANTS.
 - FOR SKATE RINK EDGES OR USE WITH VCT FLOORING



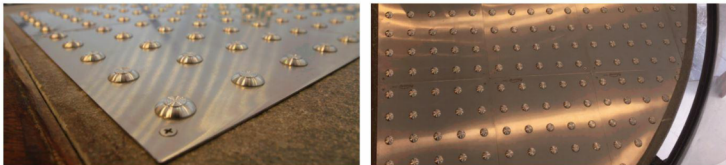
TA - 4

- PORCELAIN TACTILE INDICATORS
- INTERIOR OR EXTERIOR APPLICATIONS
 - TRUNCATED DOME OR WAYFINDING BAR VARIANTS.
 - FOR USE WITH PORCELAIN TILE FLOORING



TA - 5

- CAST IRON CAST IN PLACE TACTILE INDICATORS
- EXTERIOR APPLICATION
 - HIGHLY DURABLE
 - FOR NEW CONSTRUCTION HIGH TRAFFIC AREAS



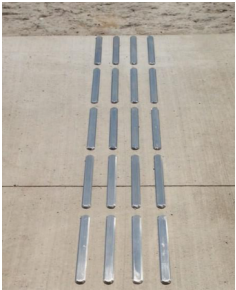
TA - 6

- INDIVIDUAL STAINLESS STEEL PLATE TACTILE INDICATORS
- INTERIOR OR EXTERIOR APPLICATIONS
 - FOR HIGH PROFILE ARCHITECTURAL SPACES WHERE AESTHETICS ARE IMPORTANT



TA - 7

- TRUNCATED DOMES:
- INDIVIDUAL STAINLESS STEEL TACTILE INDICATORS
 - INTERIOR OR EXTERIOR APPLICATIONS
 - CAN BE INSTALLED ON ALL SURFACES
 - FOR HIGH PROFILE ARCHITECTURAL SPACES WHERE AESTHETICS ARE IMPORTANT
 - TO BE USED ON NON-HERITAGE DESIGNATED STAIRS



TA - 8

- GUIDANCE BARS:
- INDIVIDUAL STAINLESS STEEL, BRASS, BRONZE OR ALUMINUM CARBORUNDUM NON-SLIP OR LINEAR GROOVE PATTERN.
 - INTERIOR APPLICATIONS
 - CAN BE INSTALLED ON ALL SURFACES
 - FOR HIGH PROFILE ARCHITECTURAL SPACES WHERE AESTHETICS ARE IMPORTANT
 - TO BE USED ON NON-HERITAGE DESIGNATED STAIRS



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DRAWING TITLE:

TACTILE ATTENTION INDICATORS

Project No: 9119- 19- 0162 / Arcadis 30279056

Date: 2025-04-11

Issue: ISSUED FOR TENDER

NO.

T06



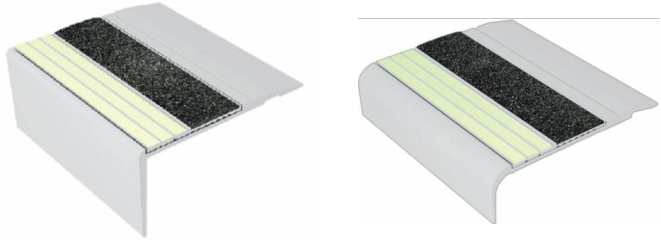
TA - 11 INTERIOR AND EXTERIOR TEXTURAL WARNING STRIP

- AFFIXED WITH ADHESIVE AND SCREWS
- SIZES: 50.8MM X 203MM
- REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH



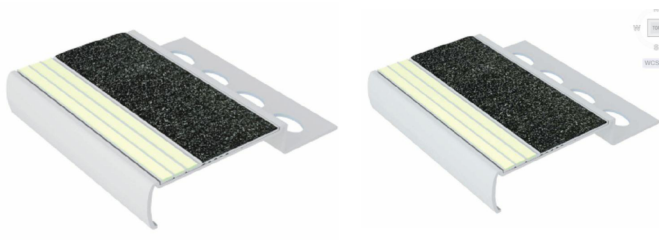
TA - 12 EXTERIOR CAST IN PLACE CONTRAST AND TEXTURAL WARNING STRIP

- DESIGNED FOR INSTALLATION ON STEP EDGES WHEN CONCRETE IS POURED.
- INSTALLED IN WET-SET CONCRETE.
- SIZES: 50.8MM X 76.2MM WIDE
- REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH



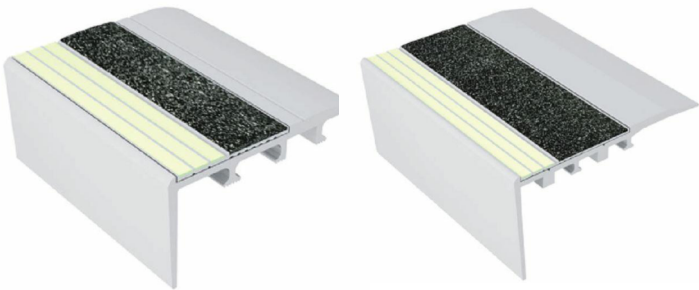
TA - 16 INTERIOR AND EXTERIOR USE (ON EXISTING) ON SMOOTH SURFACES STAIR NOSING FOR: TILE, CONC, WOOD, CARPET, VINYL.

- ANODIZED ALUMINUM NOSE, INSTALLED WITH EITHER NON-SLIP STRIP OR WITH PHOTOLUMINESCENT CONTRAST STRIP.
- AVAILABLE IN 5 DIFFERENT PROFILES TO MATCH THE DESIGN OF THE STEP EDGE
- AFFLICTED WITH ADHESIVE OR ADHESIVE AND SCREWS
- SIZES: 70.1MM - 78.7MM WIDE
- REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH



TA - 17 INTERIOR USE ON NEW TILED SURFACES. STAIR NOSING.

- ALUMINUM NOSE SPECIFICALLY DESIGNED FOR INSTALLATION ON TILED STAIRS.
- 3.2MM TILED STAIRS OR 2.54MM TILED STAIRS.
- REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH



TA - 18 INTERIOR USE ON NEW CARPETED FLOORING. STAIR NOSING.

- ANODIZED ALUMINUM NOSE, SPECIFICALLY DESIGNED FOR CARPETED STAIRS, INSTALLED WITH EITHER NON-SLIP STRIP OR WITH PHOTOLUMINESCENCE CONTRAST STRIP
- INSTALLED WITH SCREWS
- SIZES: 66MM - 89MM
- REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH



TA - 19 EXTERIOR USE ON POURED CONCRETE. STAIR NOSING.

- 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.
- FULL LENGTH, INTEGRALLY EXTRUDED 5/8" ANCHOR.
- SIZES: 79.4MM X 25.4MM
- REFER TO DRAWINGS FOR REQUIRED LENGTH AND WIDTH
- TO BE USED ON NON-HERITAGE DESIGNATED STAIRS



TA - 20 INDOOR AND OUTDOOR USE ON NEW POURED CONCRETE STAIR NOSING.

- INSTALL INTO WET CONCRETE. USED ON CONCRETE STAIRS, CONCRETE-FILLED STEEL PAN STAIRS, AND PRE-CAST CONCRETE STAIRS.
- AVAILABLE IN CUT TO LENGTH SIZES. (TOLERANCE +OR- 1/8")
- STANDARD LENGTHS ARE 8FT AND 10FT.
- 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.
- 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.



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ACCESSIBILITY UPGRADES
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ACCESSIBILITY UPGRADES

DRAWING TITLE:
TEXTURAL & COLOUR CONTRAST
WARNING STRIP AND NOSING

Project No: 9119- 19- 0162 / Arcadis 30279056

Date: 2025-04-11

Issue: ISSUED FOR TENDER

NO.

T07

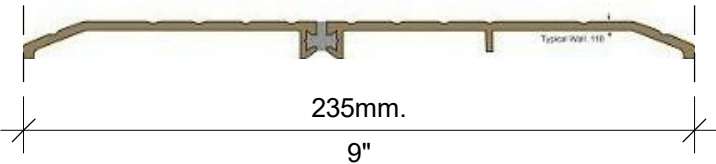
TH-1a

SMOOTH 6" WIDE THRESHOLD WITH ANTI-SLIP COATING



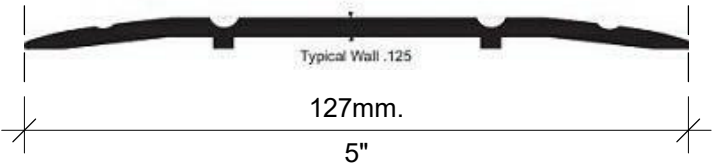
TH-2a

EXTERIOR APPLICATIONS - THERMALLY BROKEN METAL THRESHOLD
ANY EXISTING FLOORING MATERIAL TO ANY EXISTING FLOORING MATERIAL



TH-3a

METAL THRESHOLD
ANY EXISTING FLOORING MATERIAL TO ANY EXISTING FLOORING MATERIAL



TH-4a

ANODIZED ALUMINUM TRANSITION STRIP BETWEEN NEW AND EXISTING FLOOR



TH-5a

SATIN ANODIZED ALUMINUM TRANSITION STRIP FOR NEW FLOORING ON BOTH SIDE VARIES HEIGHTS (TILE TO ANY FLOOR SURFACE)



CITY OF TORONTO ACCESSIBILITY UPGRADES

9119-19-0162 - Arcadis 30279056

FIRE HALL No.123
143 BOND AVENUE



NOT FOR CONSTRUCTION

ISSUED FOR TENDER

CITY OF TORONTO

55 John ST.
TORONTO, ON
M5V 3C6

ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2021-11-18
B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	ISSUED FOR TENDER	2023-04-11

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PROJECT NO: 9119-19-0162 - Arcadis 30279056	
DATE: 2023-04-11	
SHEET NUMBER G05-059-G0001	ISSUE D

GENERAL DRAWING INDEX	
SHEET NUMBER	SHEET NAME
G0001	COVER SHEET
G0002	DRAWING LIST

ARCHITECTURAL DRAWING INDEX	
SHEET NUMBER	SHEET NAME
A1201	SITE PLAN
A2001	BASEMENT STAGING PLAN
A2011	FIRST FLOOR STAGING PLAN
A2021	SECOND FLOOR STAGING PLAN
A2111	FIRST FLOOR DEMOLITION PLAN
A2121	SECOND FLOOR DEMOLITION PLAN
A2411	FIRST FLOOR PROPOSED PLAN
A2421	SECOND FLOOR PROPOSED PLAN
A5011	BARRIER FREE WASHROOM N101 - WORKSHOP PLANS & ELEVATIONS
A5111	WORKSHOP ELEVATION AND SECTIONS
A6011	PARTIAL BUILDING ELEVATIONS AND DETAILS
A9001	DOOR AND ROOM FINISH SCHEDULES

MECHANICAL DRAWING INDEX	
SHEET NUMBER	SHEET NAME
M0001	MECHANICAL DRAWING LIST
M0201	EQUIPMENT SCHEDULE
M1101	DEMOLITION PLAN - GROUND FLOOR
M2101	PLUMBING - GROUND FLOOR
M3101	DRAINAGE - GROUND FLOOR
M5101	HVAC - GROUND FLOOR

ELECTRICAL DRAWING INDEX	
SHEET NUMBER	SHEET NAME
E0000	DRAWING LIST
E1101	ELECTRICAL DEMOLITION PLAN 1ST FLOOR
E2101	POWER & SYSTEMS PLAN 1ST FLOOR

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CONSULTANTS

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PROJECT TITLE
CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

FIRE HALL No.123
143 BOND AVENUE

PROJECT NO:
9119-19-0162 - Arcadis 30279056

DRAWN BY:
A. BOYNARIAN

CHECKED BY:
K. TILAHUN

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
E. FENUTA

SHEET TITLE

DRAWING LIST

SHEET NUMBER

G05-059-G0002

ISSUE

D

Firm Name: IBI GROUP ARCHITECTS (CANADA) INC. CERTIFICATE OF PRACTICE NUMBER 5605 100-175 Galaxy Boulevard Toronto, ON M9W 0C9 T 416 679 1930 F 416 675 4620				Name of Project FIRE HALL NO. 123 ACCESSIBILITY UPGRADES Location 143 BOND AVE, NORTH YORK, ON M3B 1M1			
ITEM	Ontario's 2012 Building Code Data Matrix Part 3 or 9			OBC REFERENCE <small>References are to Division B unless noted (A) for Division A or (C) for Division C</small>		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 1.1.2. [A] & 9.10.1.3.		
2.	MAJOR OCCUPANCY(S) SUBSIDIARY OCCUPANCY(S)	GROUP F DIVISION 2 - MEDIUM HAZARD INDUSTRIAL OCCUPANCIES GROUP D - BUSINESS AND PERSONAL SERVICE OCCUPANCIES GROUP C - RESIDENTIAL OCCUPANCIES			3.1.2.1. (1)	9.10.2. EXISTING NO CHANGE	
3.	BUILDING AREA (m²)	EXISTING - 256.3 NEW - N/A TOTAL - 256.3		1.4.1.2. [A]	1.4.1.2. [A]		
4.	GROSS AREA (m²)	EXISTING - 592.4 NEW - N/A TOTAL - 592.4		1.4.1.2. [A]	1.4.1.2. [A]	EXISTING NO CHANGE	
5.	NUMBER OF STOREYS	ABOVE GRADE - 2 BELOW GRADE - 1		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 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 checked="" 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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input 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 type="checkbox"/> NO			3.2.6.	N/A	
13.	CONSTRUCTION RESTRICTIONS ACTUAL CONSTRUCTION	<input type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> BOTH PERMITTED <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> BOTH			3.2.2.78.	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 <small>References are to Division B unless noted (A) for Division A or (C) for Division C</small>		REMARKS
18b.	REQUIRED FIRE RESISTANCE RATING (FRR)	FRR OF SUPPORTING MEMBERS FLOORS NO CHANGE ROOF NO CHANGE MEZZANINE		LISTED DESIGN NO. OR DESCRIPTION (SB-2)						SB-2 TABLE 2.1.1. SB-2 TABLE 2.1.1.			
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. CLADDING	NON-COMB. CONST.	EXISTING NO CHANGE	
	NORTH					-	0	-	-	-			
	SOUTH					-	0	-	-	-			
	EAST					-	0	-	-	-			
	WEST					-	0	-	-	-			
20.	PLUMBING FIXTURE REQUIREMENTS										-		
	MALE / FEMALE COUNT @ _____ % / _____ %					NEW UNIVERSAL WASHROOM ADDED: ADDING 1 TOILET, 1 LAVATORY AND A NON-ACCESSIBLE SHOWER					<input checked="" type="checkbox"/> PART 3 <input type="checkbox"/> PART 9		
	EXCEPT AS NOTED OTHERWISE					OCCUPANT LOAD		OBC TABLE NUMBER		FIXTURES REQUIRED	FIXTURES PROVIDED		
	MAJOR OCCUPANCY _____					11 MALE		3.7.4.9.		2	3	3.7.4.9.	
						11 FEMALE		3.7.4.9.		2	3	3.7.4.9.	
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 <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) <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			

2
A1201
KEY PLAN
Scale: NTS

1
A1201
SITE PLAN
Scale: 1 : 200



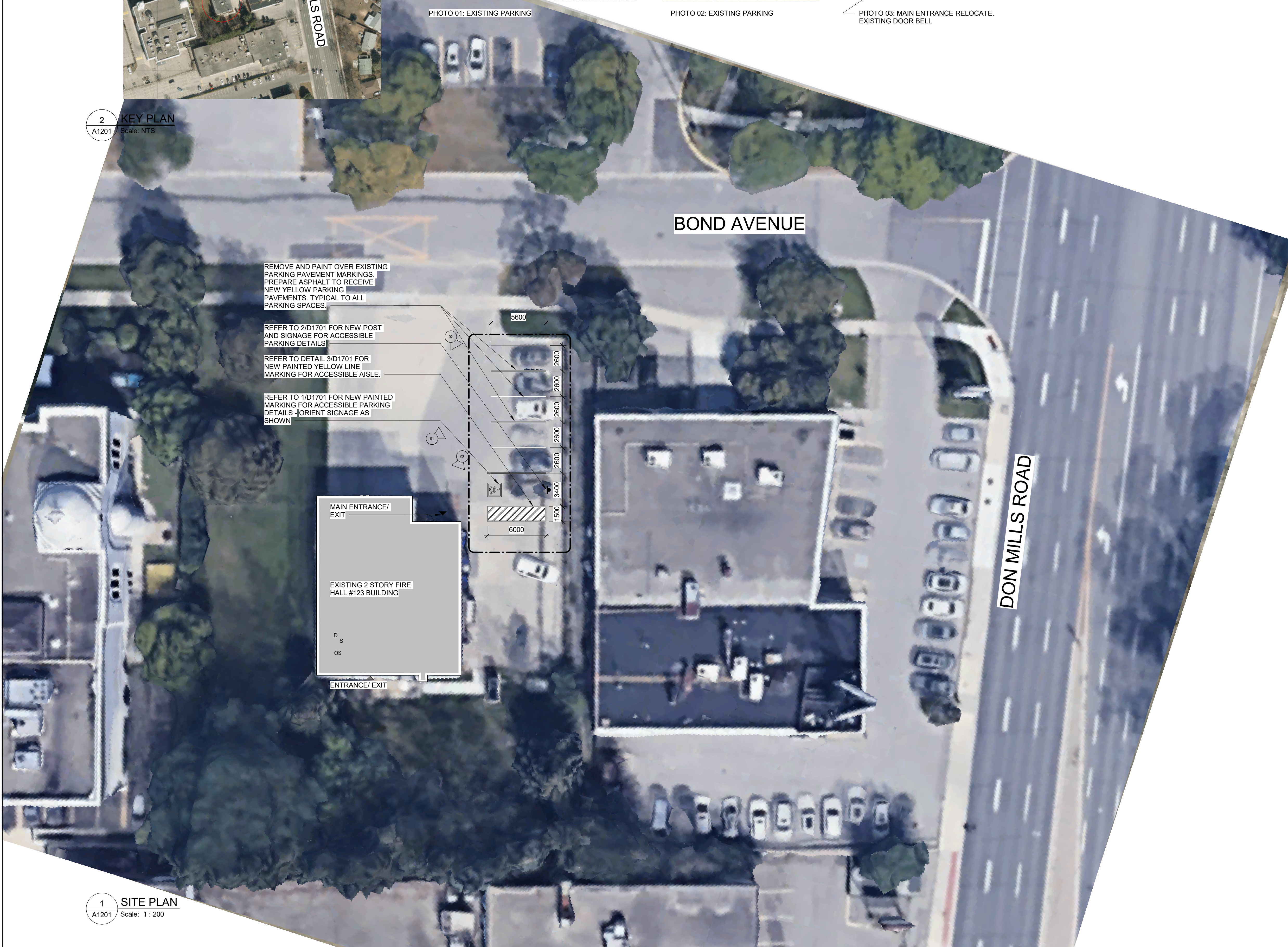
PHOTO 01: EXISTING PARKING



PHOTO 02: EXISTING PARKING



PHOTO 03: MAIN ENTRANCE RELOCATE.
EXISTING DOOR BELL



REMOVE AND PAINT OVER EXISTING
PARKING PAVEMENT MARKINGS.
PREPARE ASPHALT TO RECEIVE
NEW YELLOW PARKING
PAVEMENTS, TYPICAL TO ALL
PARKING SPACES.

REFER TO 2/D1701 FOR NEW POST
AND SIGNAGE FOR ACCESSIBLE
PARKING DETAILS

REFER TO DETAIL 3/D1701 FOR
NEW PAINTED YELLOW LINE
MARKING FOR ACCESSIBLE AISLE.

REFER TO 1/D1701 FOR NEW PAINTED
MARKING FOR ACCESSIBLE PARKING
DETAILS -ORIENT SIGNAGE AS
SHOWN

MAIN ENTRANCE/
EXIT

EXISTING 2 STORY FIRE
HALL #123 BUILDING

D
S
OS

ENTRANCE/EXIT

SITE LEGEND



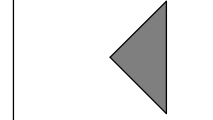
NEW BARRIER FREE PARKING
SPACE - REFER TO DETAIL
1/D1701 & 5/D1701



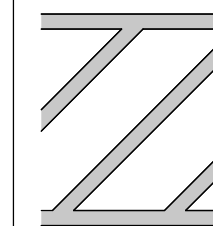
ACCESSIBLE PARKING SIGN ON
POST - REFER TO DETAIL 2/D1702



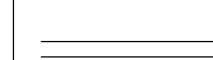
EXISTING MAIN ENTRANCE



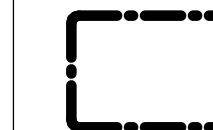
EXISTING EXIT TO REMAIN



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

SITE PLAN GENERAL NOTES

- 1 SITE PLAN DIMENSIONS ARE APPROXIMATE BASED ON GOOGLE MAPS. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING SITE SERVICES AND TO REPORT ANY DISCREPANCY TO THE CONSULTANT AND THE OWNER BEFORE COMMENCEMENT OF THE WORK.
- 2 DURING CONSTRUCTION, CONTRACTOR TO COORDINATE ENTRANCES WITH OWNER FOR HOARDING AND EXTERIOR FENCING. RESTORE EXTERIOR WALKWAY, DRIVEWAY, PAVING AND ALL SOFT LANDSCAPING MATERIAL AROUND ALL EXTERIOR EXCAVATED AREAS AFTER CONSTRUCTION AS NEEDED WITH THE SAME MATERIAL AND FINISH.
- 3 VERIFY ALL UNDERGROUND BURIED UTILITIES PRIOR TO DIGGING AND REPORT ANY CONFLICTS TO THE CONSULTANT.

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KEYPLAN

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SEAL

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tel 416 679 1930
www.arcadis.com

PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

**FIRE HALL No.123
143 BOND AVENUE**

PROJECT NO:
9119-19-0162 - Arcadis 30279056

DRAWN BY:
A. BOYNARIAN

CHECKED BY:
K. TILAHUN

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
E. FENUITA

SHEET TITLE

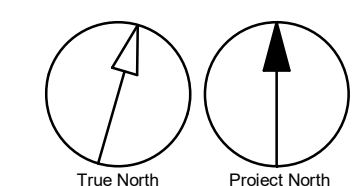
SITE PLAN

SHEET NUMBER

G05-059-A1201

ISSUE

D

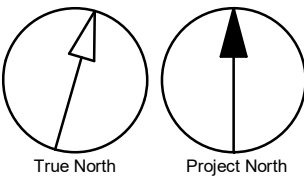
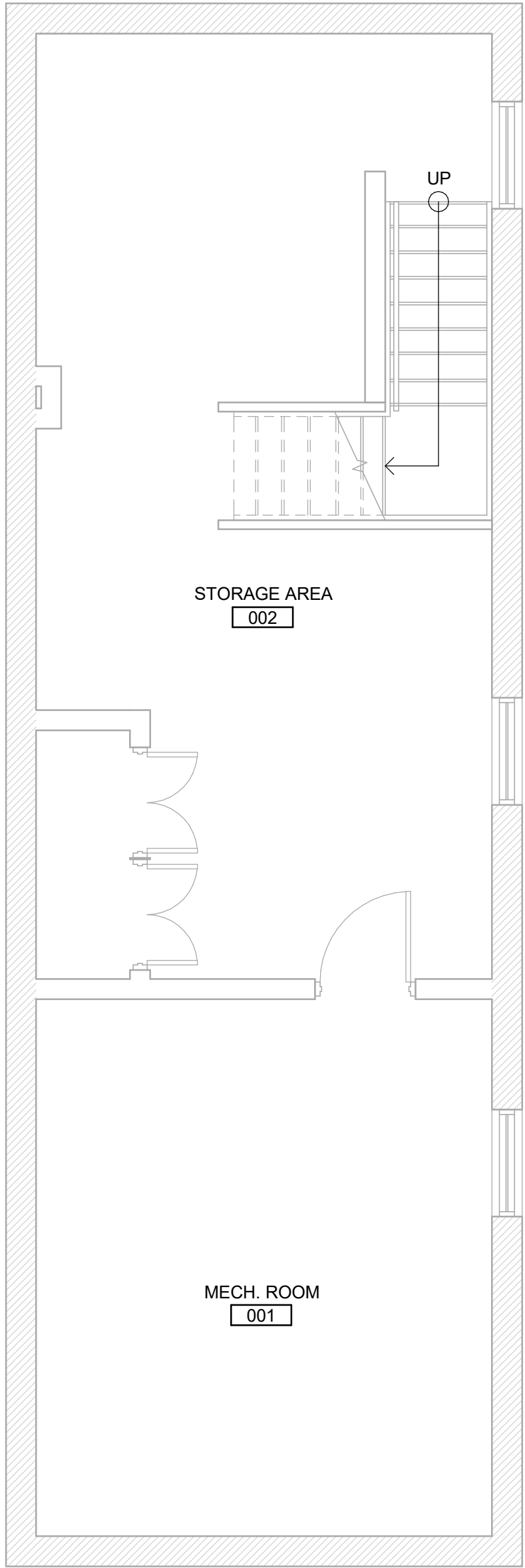


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Scale 1:50



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

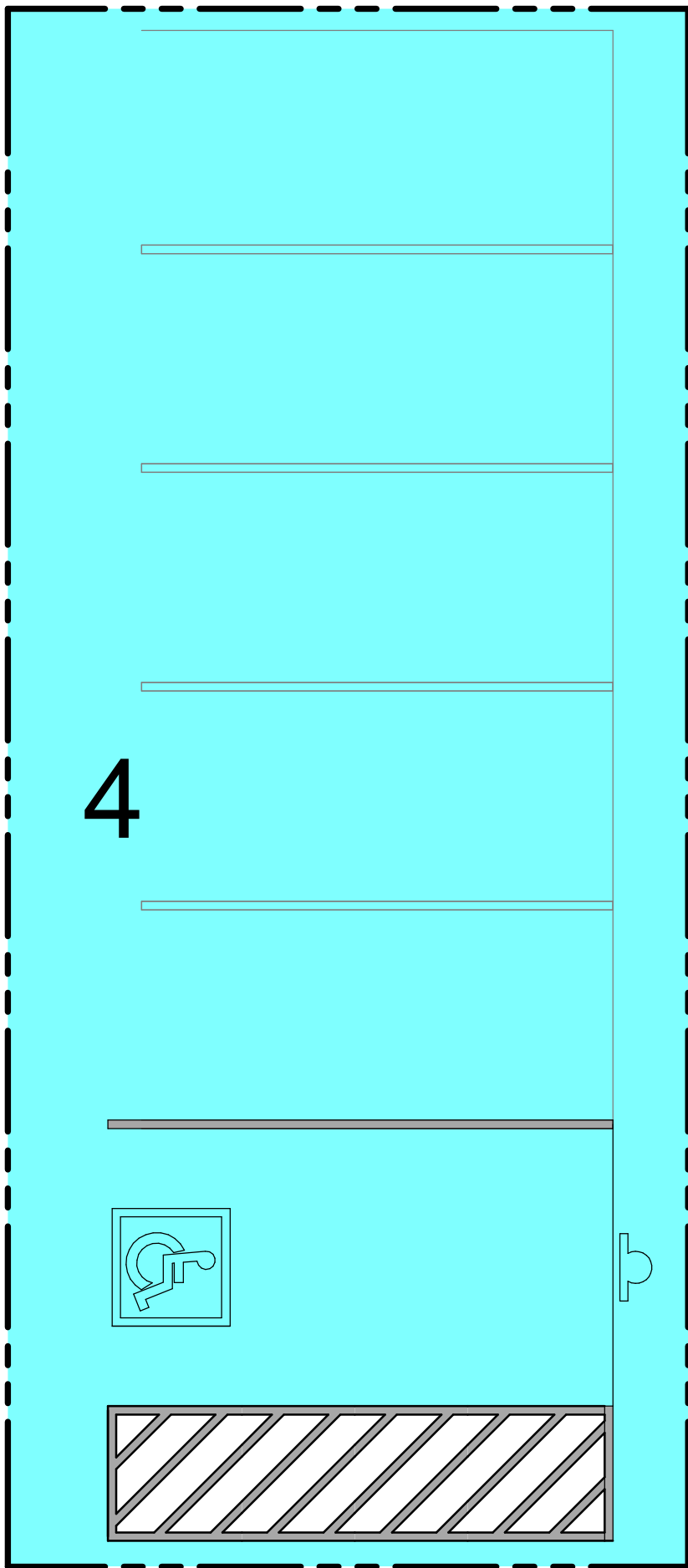
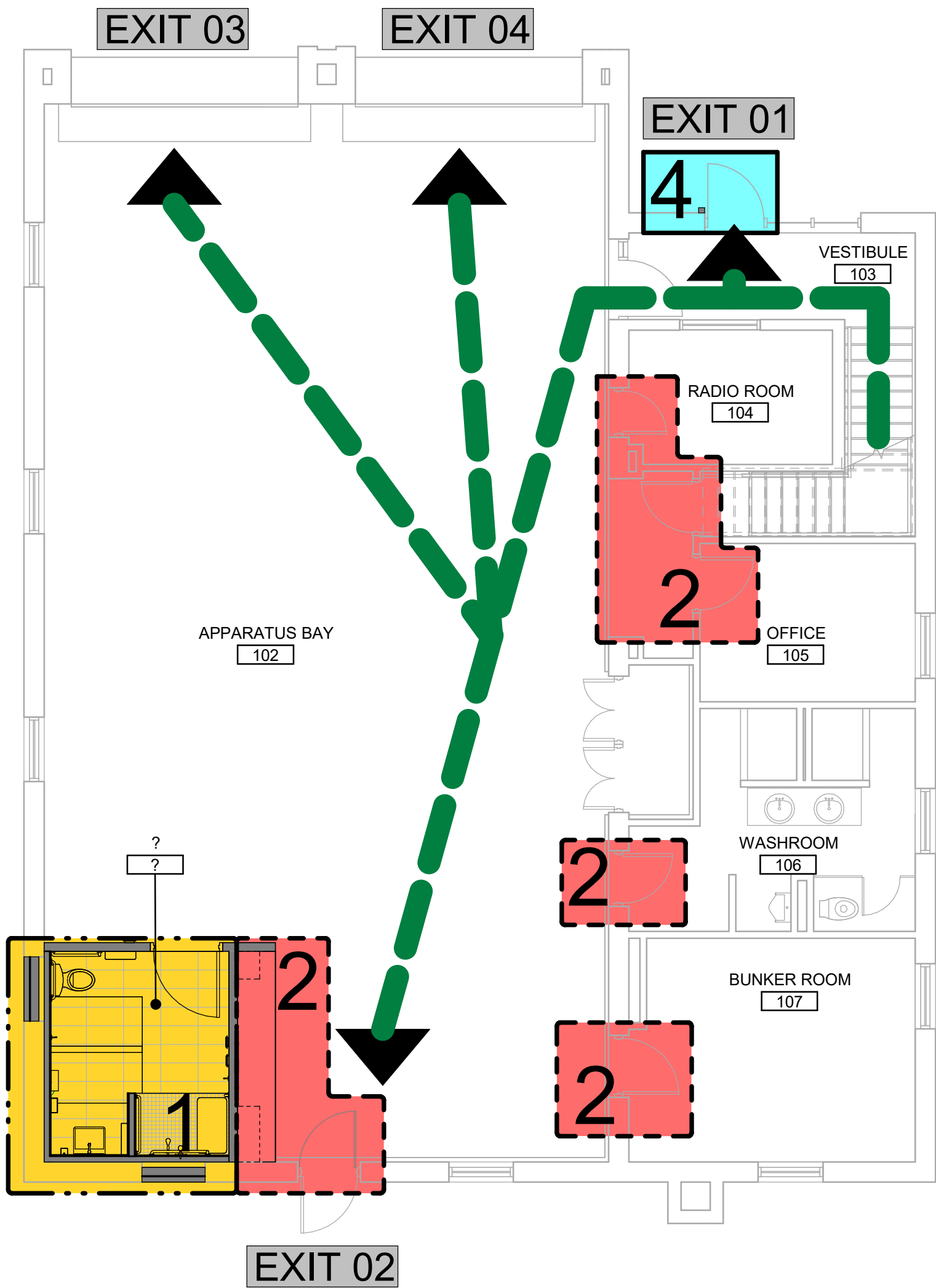
SHEET TITLE
BASEMENT STAGING
PLAN

SHEET NUMBER G05-059-A2001	ISSUE D
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Scale 1:75



CONSTRUCTION STAGING LEGEND

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

STAGING GENERAL NOTES

- EXISTING FACILITY WILL REMAIN OPERATIONAL DURING CONSTRUCTION. CONSTRUCTION WORK CANNOT IMPACT FACILITY OPERATION WITHOUT FIRST NOTIFYING AND CONSULTING WITH THE OWNER.
- ALL STAGES ARE TO BE COMPLETED IN SEQUENTIAL ORDER.
- 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.
- IF EXISTING FIRE ALARM SYSTEM NEEDS TO BE TEMPORARILY INTERRUPTED TO COMPLETE THE WORK, A FULL TIME FIRE WATCH SHALL BE PROVIDED.
- CONTRACTOR SHALL ALLOW FOR THE FOLLOWING:
A) TEMPORARY SIGNAGE
B) TEMPORARY ACCESS WITH ACCESSIBLE RAMPS AS REQUIRED BY ONTARIO REGULATION 191/11 80.13.
- ALL STAGING INCLUDES BOTH DEMOLITION AND NEW SCOPE OF WORK.
- PROVIDE AND MODIFY CONSTRUCTION BARRIER/SIGNAGE ETC. TO SUIT SITE CONDITION AND CONSTRUCTION SEQUENCE.
- WORK LISTED IN STAGES IS FOR REFERENCE ONLY. EACH STAGE MUST BE COMPLETED AS PER CONTRACT DOCUMENTS BEFORE STARTING THE NEXT STAGE AND SHALL NOT AFFECT NORMAL OPERATION OR EXITING OF THE FACILITY.
- FOR ALL OTHER REQUIREMENTS - REFER TO SPECIFICATIONS.
- KEEP EXITS CLEAR FROM OBSTRUCTIONS DURING CONSTRUCTION.

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Metro Hall Toronto, ON
M5V 3C6

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Toronto, ON M9W 0C9, Canada
tel 416 679 1930
www.arcadis.com

PROJECT TITLE
CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

FIRE HALL No.123
143 BOND AVENUE

PROJECT NO:
9119-19-0162 - Arcadis 30279056

DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUTA

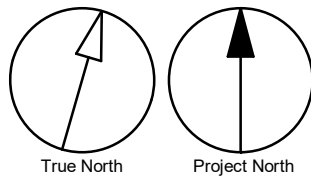
SHEET TITLE
FIRST FLOOR STAGING
PLAN

SHEET NUMBER

G05-059-A2011

ISSUE

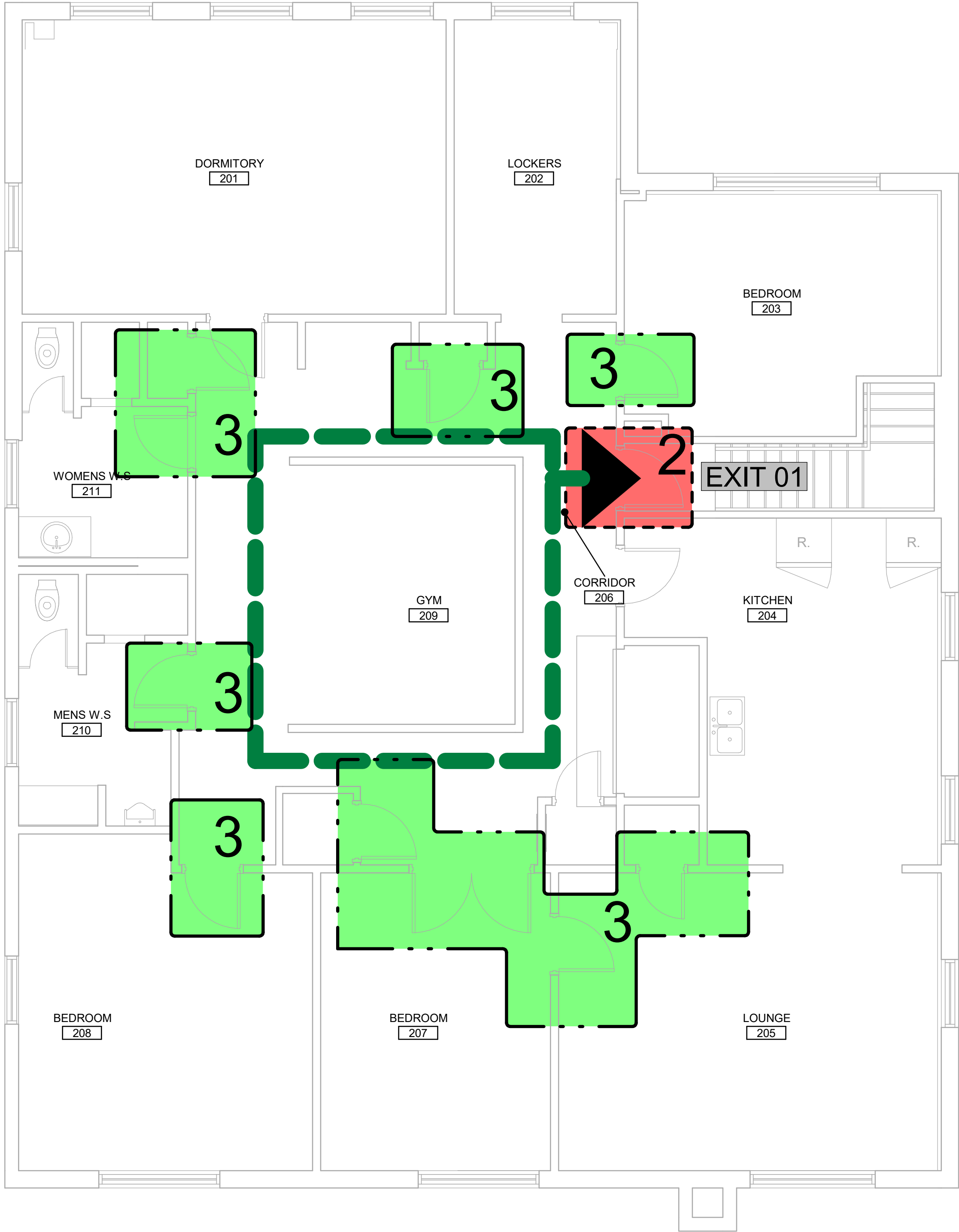
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Autodesk Docs/122260 - Cot TAU Upgrades R02020122260-TAU-55-148COND-A-R20.rvt 1/11

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Scale 1:50



CONSTRUCTION STAGING LEGEND

- STAGE 2
- STAGE 3
- EMERGENCY EXIT
- TRAVEL PATH

STAGING GENERAL NOTES

- EXISTING FACILITY WILL REMAIN OPERATIONAL DURING CONSTRUCTION. CONSTRUCTION WORK CANNOT IMPACT FACILITY OPERATION WITHOUT FIRST NOTIFYING AND CONSULTING WITH THE OWNER.
- ALL STAGES ARE TO BE COMPLETED IN SEQUENTIAL ORDER.
- 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.
- IF EXISTING FIRE ALARM SYSTEM NEEDS TO BE TEMPORARILY INTERRUPTED TO COMPLETE THE WORK, A FULL TIME FIRE WATCH SHALL BE PROVIDED.
- CONTRACTOR SHALL ALLOW FOR THE FOLLOWING:
A) TEMPORARY SIGNAGE
B) TEMPORARY ACCESS WITH ACCESSIBLE RAMPS AS REQUIRED BY ONTARIO REGULATION 191/11 80.13.
- ALL STAGING INCLUDES BOTH DEMOLITION AND NEW SCOPE OF WORK.
- PROVIDE AND MODIFY CONSTRUCTION BARRIER/SIGNAGE ETC. TO SUIT SITE CONDITION AND CONSTRUCTION SEQUENCE.
- WORK LISTED IN STAGES IS FOR REFERENCE ONLY. EACH STAGE MUST BE COMPLETED AS PER CONTRACT DOCUMENTS BEFORE STARTING THE NEXT STAGE AND SHALL NOT AFFECT NORMAL OPERATION OR EXITING OF THE FACILITY.
- FOR ALL OTHER REQUIREMENTS - REFER TO SPECIFICATIONS.
- KEEP EXITS CLEAR FROM OBSTRUCTIONS DURING CONSTRUCTION.

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D	ISSUED FOR TENDER	2025-04-11

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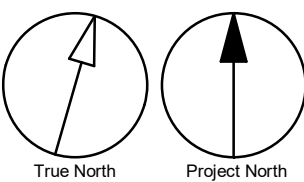
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**SECOND FLOOR
STAGING PLAN**

SHEET NUMBER

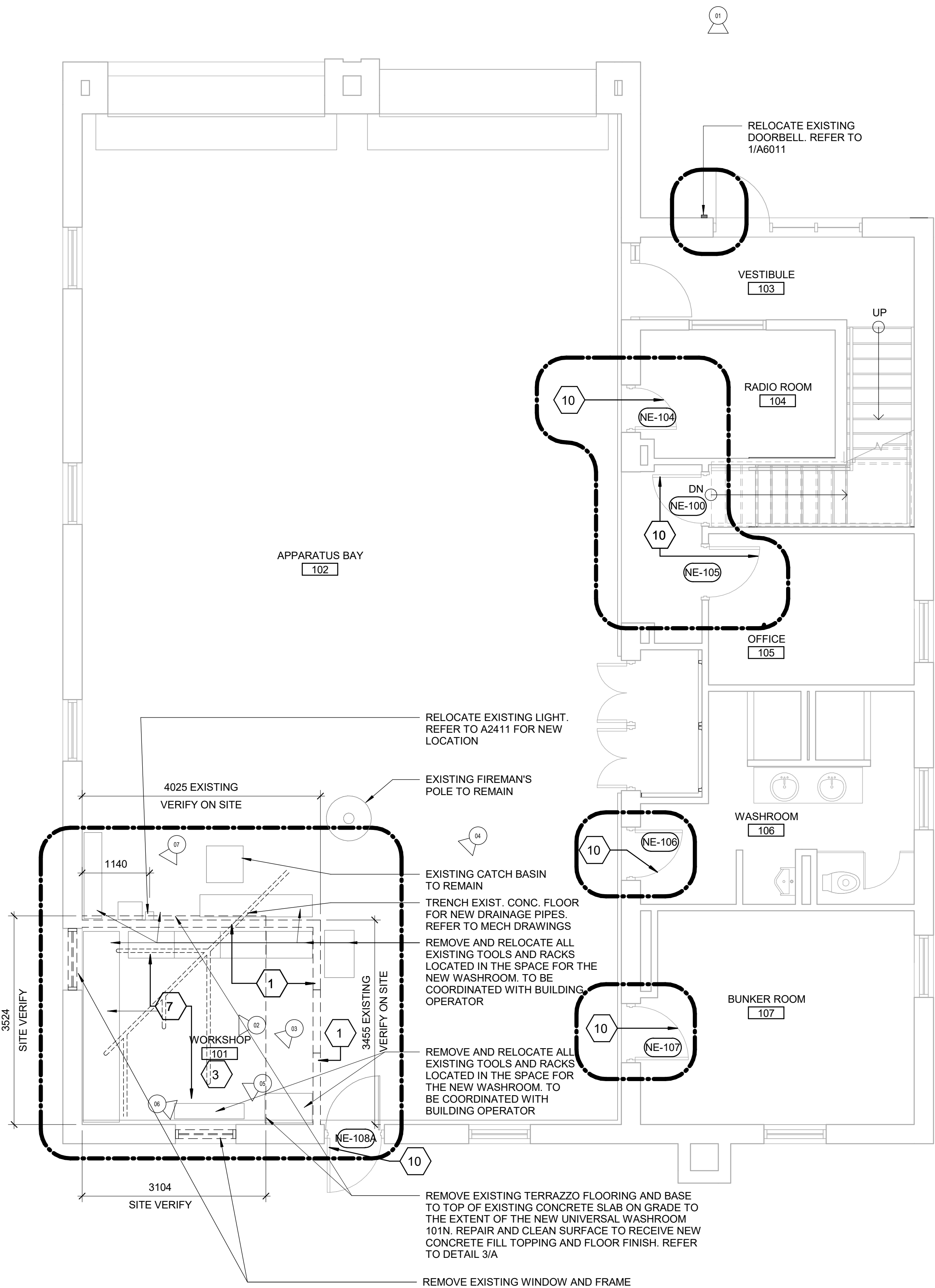
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RELOCATE EXISTING DOORBELL. REFER TO 1/A6011



PHOTO 1: MAIN ENTRANCE NORTH ELEVATION

REMOVE EXISTING WINDOW AND FRAME

RELOCATE ALL EXISTING TOOLS AND RACKS LOCATED IN THE SPACE FOR THE NEW WASHROOM. TO BE COORDINATED WITH BUILDING OPERATOR



PHOTO 2: EXISTING WORKSHOP AREA

RELOCATE ALL EXISTING TOOLS AND RACKS LOCATED IN THE SPACE FOR THE NEW WASHROOM. TO BE COORDINATED WITH BUILDING OPERATOR

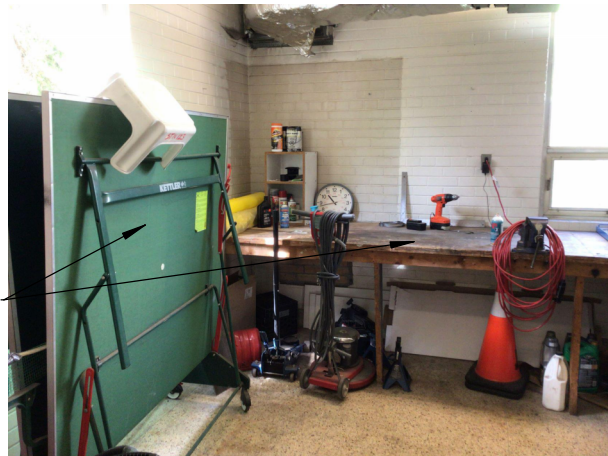


PHOTO 3: EXISTING WORKSHOP AREA

REMOVE EXISTING WINDOW AND FRAME

RELOCATE EXISTING LIGHT. REFER TO A2411 FOR NEW LOCATION

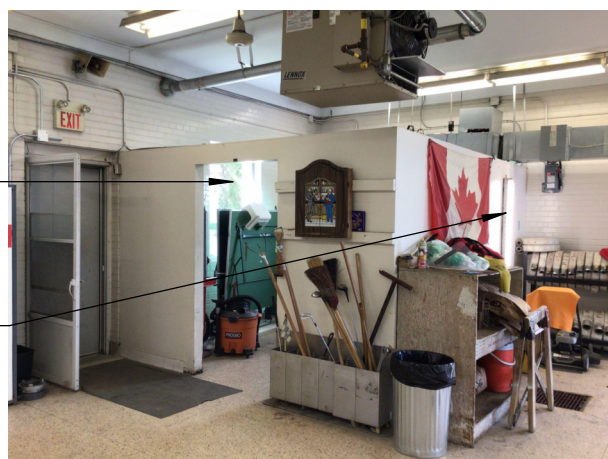


PHOTO 4: EXISTING WORKSHOP AREA

REMOVE EXISTING WINDOW AND FRAME



PHOTO 5: EXISTING WINDOW

REMOVE EXISTING WINDOW AND FRAME



PHOTO 6: EXISTING WINDOW

RELOCATE EXISTING LIGHT. REFER TO A2411 FOR NEW LOCATION



PHOTO 7: EXISTING LIGHT

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] 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.
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.
7	REMOVE EXISTING MILLWORK.
10	REMOVE EXISTING DOOR HARDWARE AS INDICATED IN DOOR SCHEDULE A9001 AND HARDWARE SCHEDULE WITHIN SPECIFICATIONS.

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DRAWN BY:

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CHECKED BY:

K. TILAHUN

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

E. FENUTA

SHEET TITLE

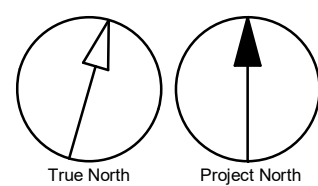
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DEMOLITION PLAN**

SHEET NUMBER

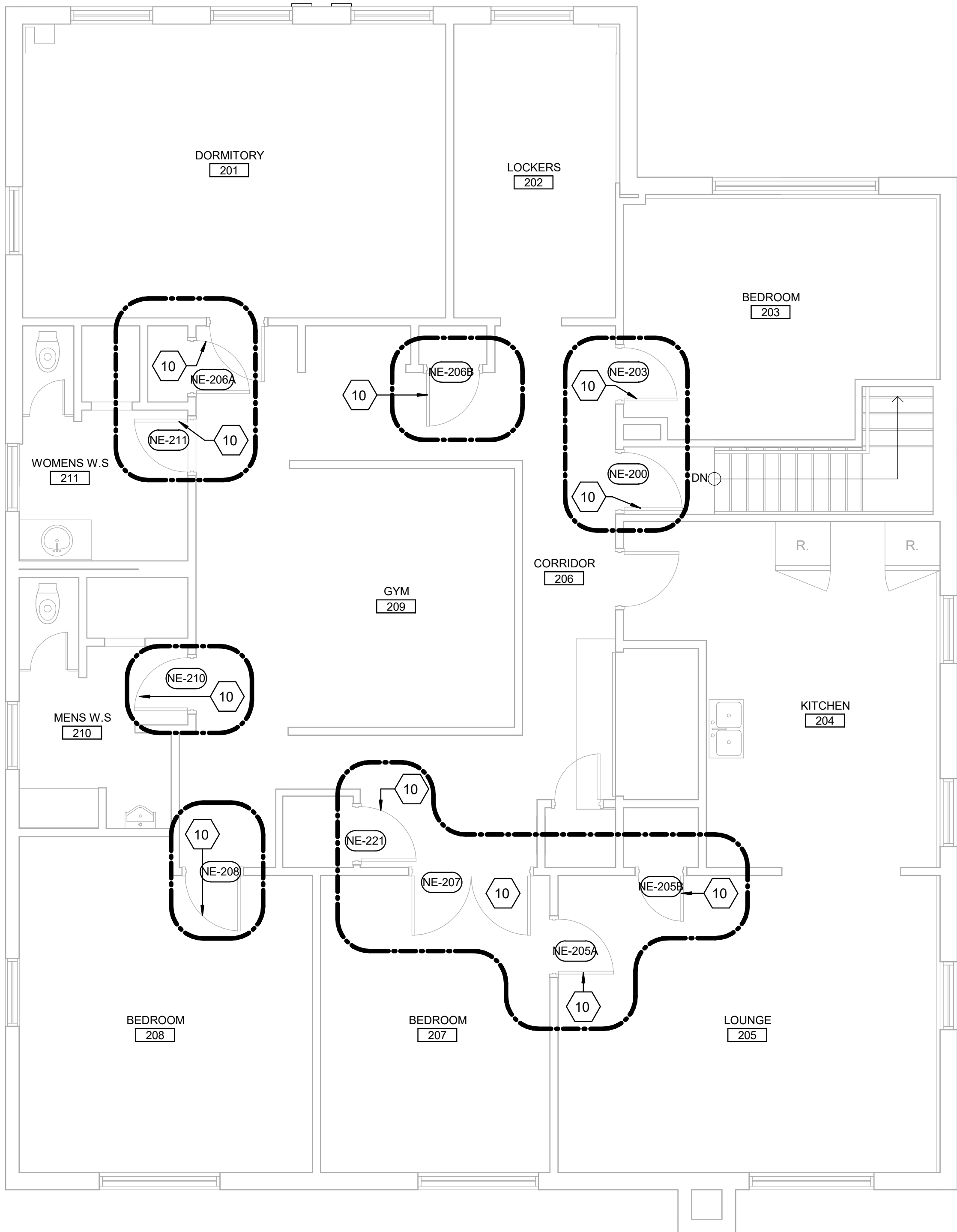
G05-059-A2111

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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] DASHED AREA INDICATES AREA OF WORK

DEMOLITION KEY NOTES

NO	DESCRIPTION
10	REMOVE EXISTING DOOR HARDWARE AS INDICATED IN DOOR SCHEDULE A6001 AND HARDWARE SCHEDULE WITHIN SPECIFICATIONS.

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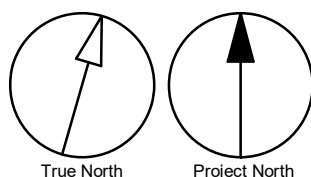
DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUTA
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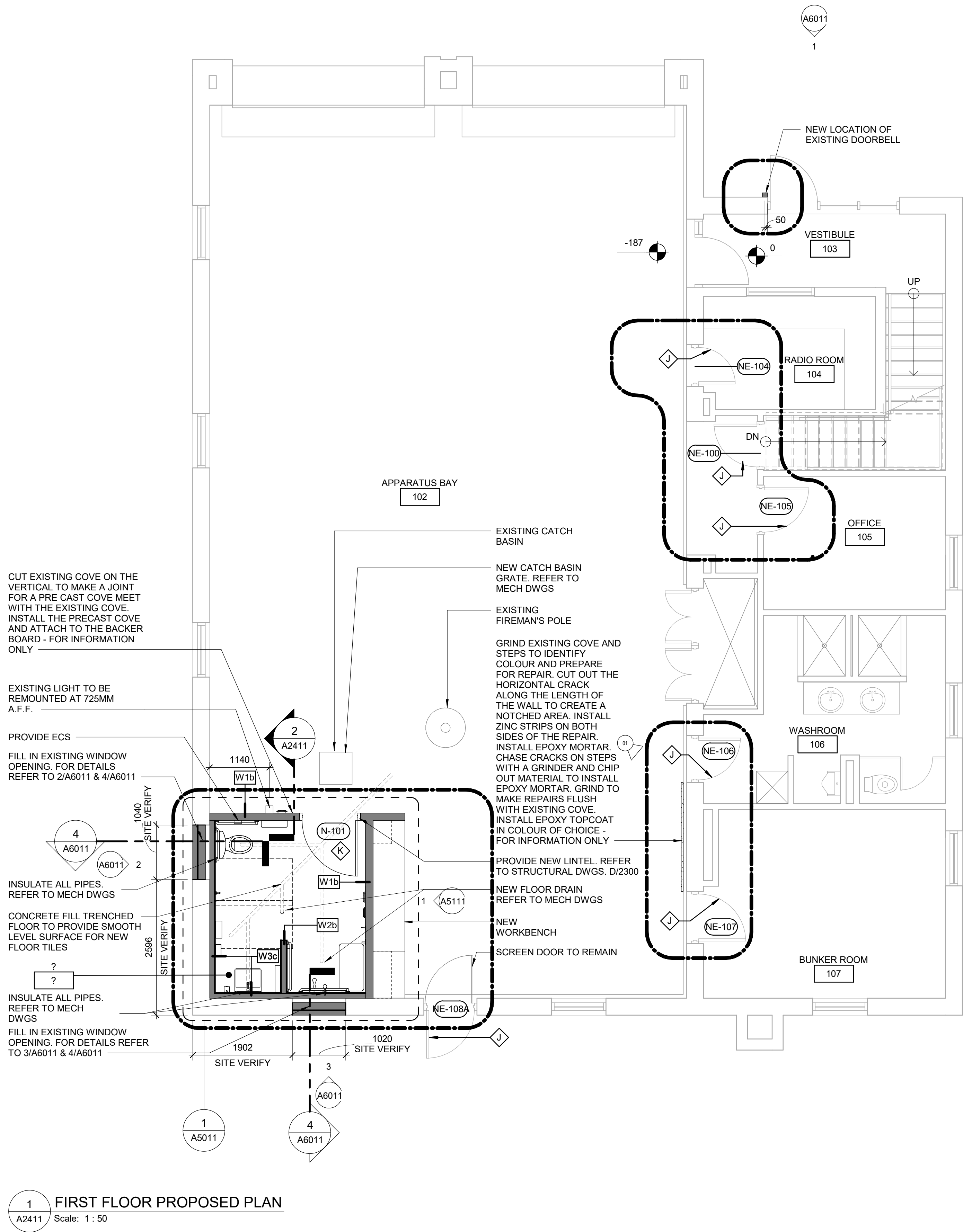
SHEET TITLE
**SECOND FLOOR
DEMOLITION PLAN**

SHEET NUMBER
G05-059-A2121

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GRIND EXISTING COVE AND STEPS TO IDENTIFY COLOUR AND PREPARE FOR REPAIR. CUT OUT THE HORIZONTAL CRACK ALONG THE LENGTH OF THE WALL TO CREATE A NOTCHED AREA. INSTALL ZINC STRIPS ON BOTH SIDES OF THE REPAIR. INSTALL EPOXY MORTAR. CHASE CRACKS ON STEPS WITH A GRINDER AND CHIP OUT MATERIAL TO INSTALL EPOXY MORTAR. GRIND TO MAKE REPAIRS FLUSH WITH EXISTING COVE. INSTALL EPOXY TOPCOAT IN COLOUR OF CHOICE - FOR INFORMATION ONLY



PHOTO 01

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

- 1 NEW DOOR CARD READER AND BARRIER FREE PUSH BUTTON - REFER TO ELECTRICAL DRAWINGS. FOR LOCATION AND HEIGHT INSTALLATION REFER TO ARCHITECTURAL DETAIL BOOKLET.

CONSTRUCTION KEY NOTES

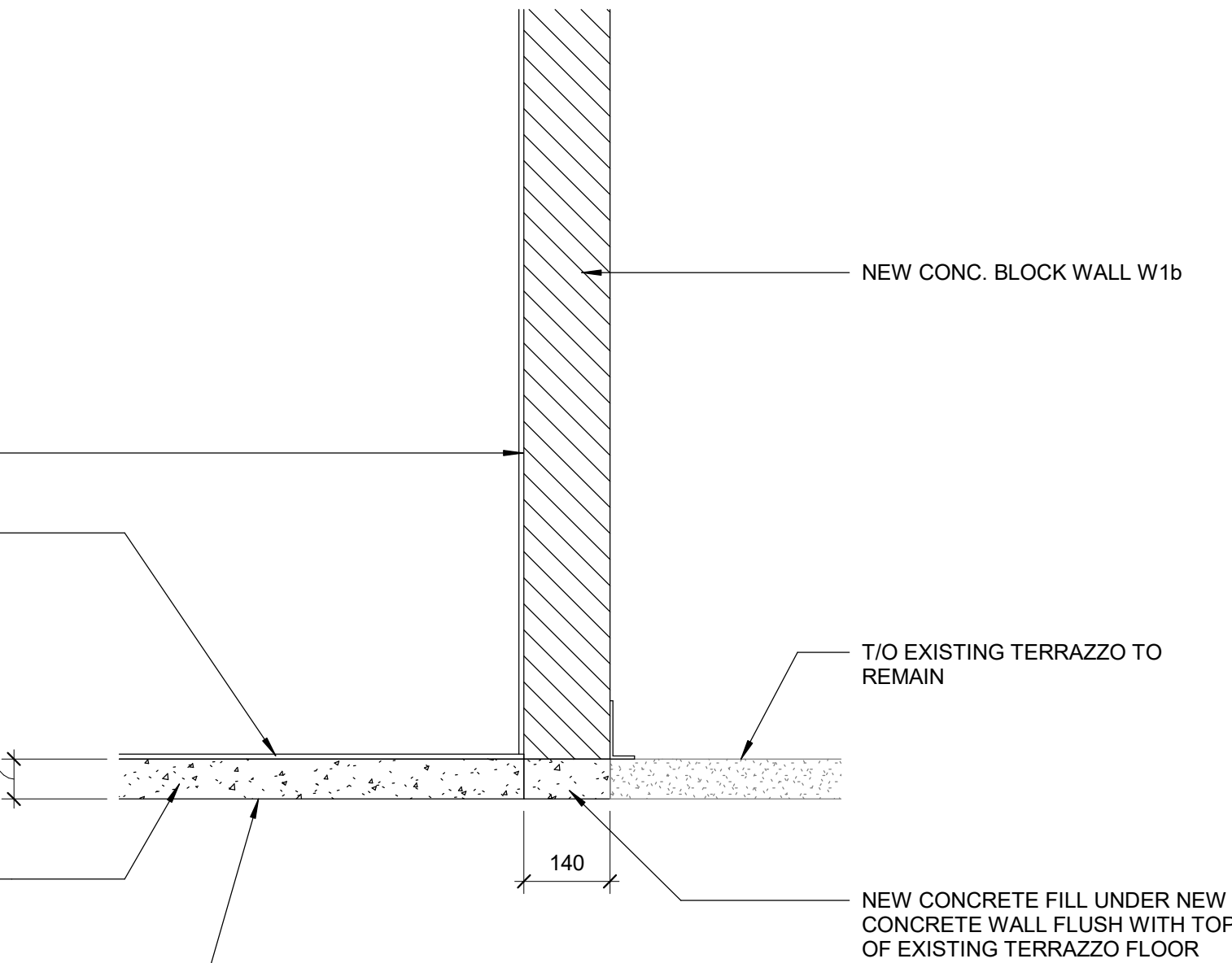
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|----|--|
| J | EXISTING DOOR TO REMAIN. DOOR HARDWARE TO BE CHANGED AS PER DOOR SCHEDULE ON A9001 AND DOOR HARDWARE SCHEDULE IN THE SPECIFICATIONS. |
| K | INSTALL NEW DOOR AND FRAME. REFER TO DOOR SCHEDULE A9001, G0004 AND DOOR HARDWARE SCHEDULE 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.

CWT-4. REFER TO A9001 AND SPECIFICATIONS
PFT-1. REFER TO A9001 AND SPECIFICATIONS

NEW CONCRETE FILL TOPPING SLOPED TO FLOOR DRAIN TO RECEIVE NEW FLOOR FINISH
T/O EXISTING CONCRETE SLAB ON GRADE



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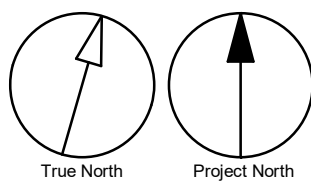
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PROPOSED PLAN**

SHEET NUMBER

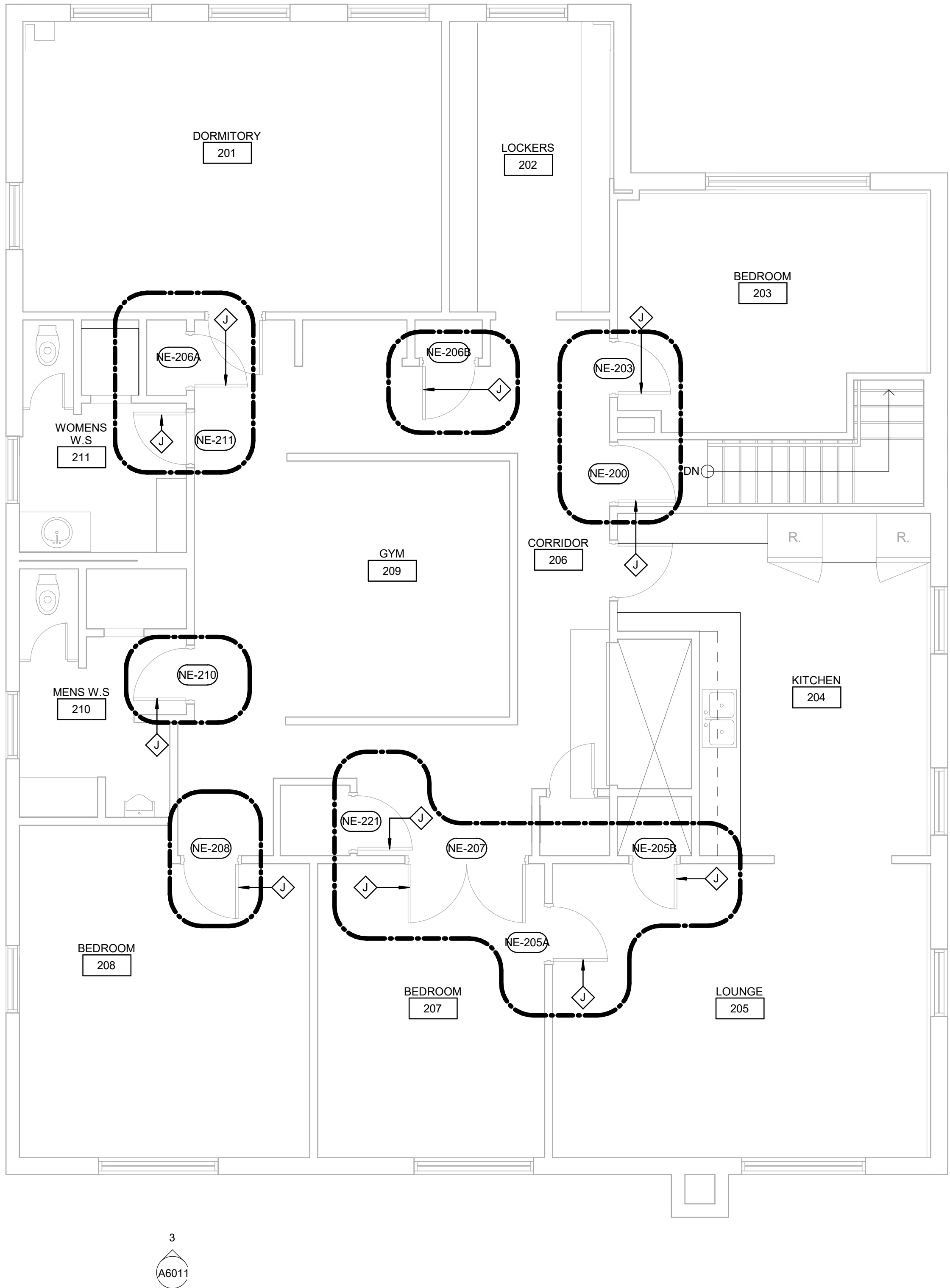
G05-059-A2411

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1 x 1



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

- 1 NEW DOOR CARD READER AND BARRIER FREE PUSH BUTTON - REFER TO ELECTRICAL DRAWINGS. FOR LOCATION AND HEIGHT INSTALLATION REFER TO ARCHITECTURAL DETAIL BOOKLET.

CONSTRUCTION KEY NOTES

- NO DESCRIPTION
- J EXISTING DOOR TO REMAIN. DOOR HARDWARE TO BE CHANGED AS PER DOOR SCHEDULE ON A9001 AND DOOR HARDWARE SCHEDULE IN THE SPECIFICATIONS.

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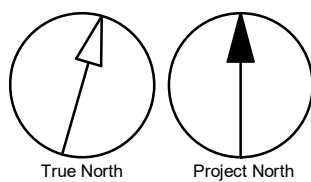
SECOND FLOOR
PROPOSED PLAN

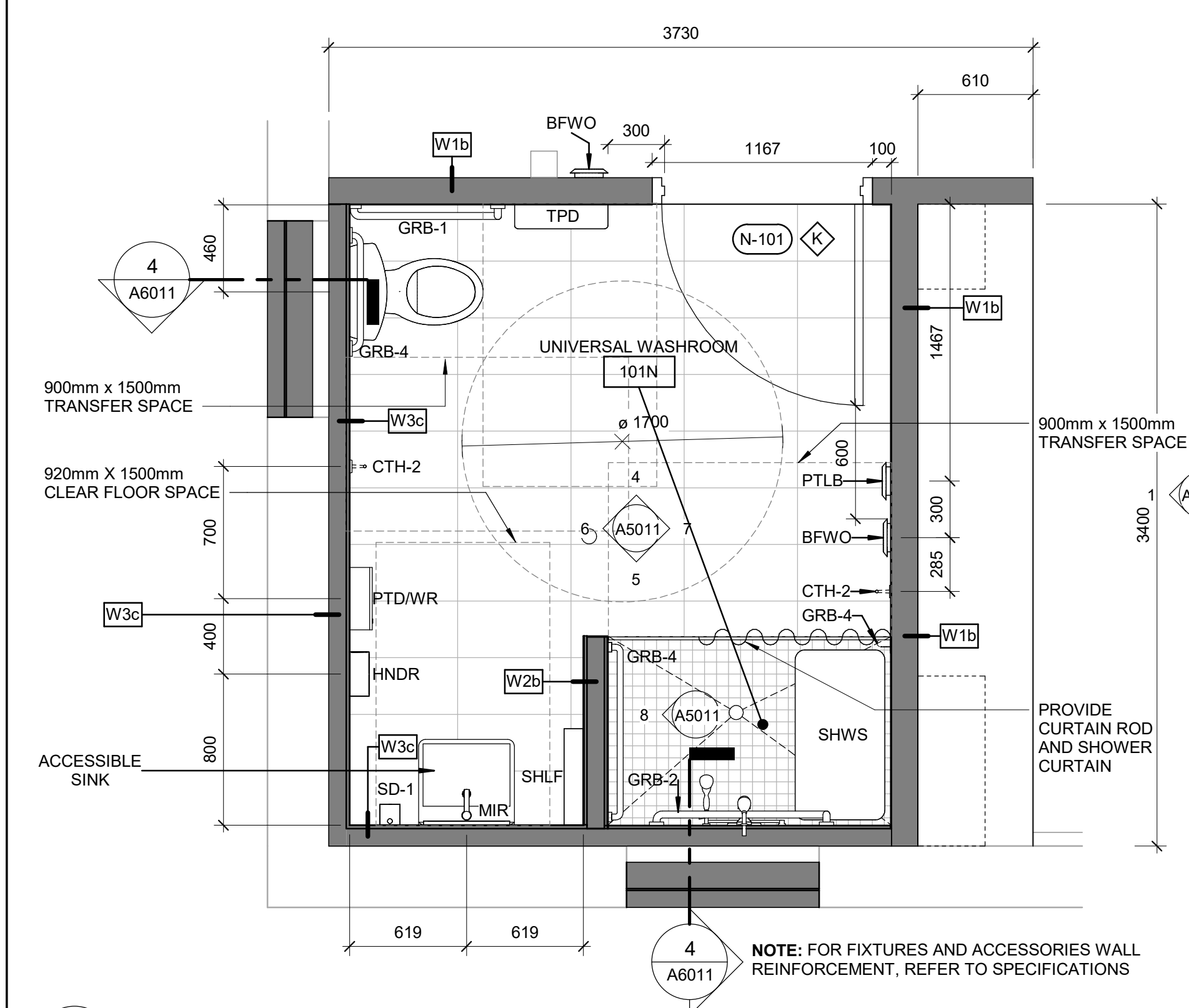
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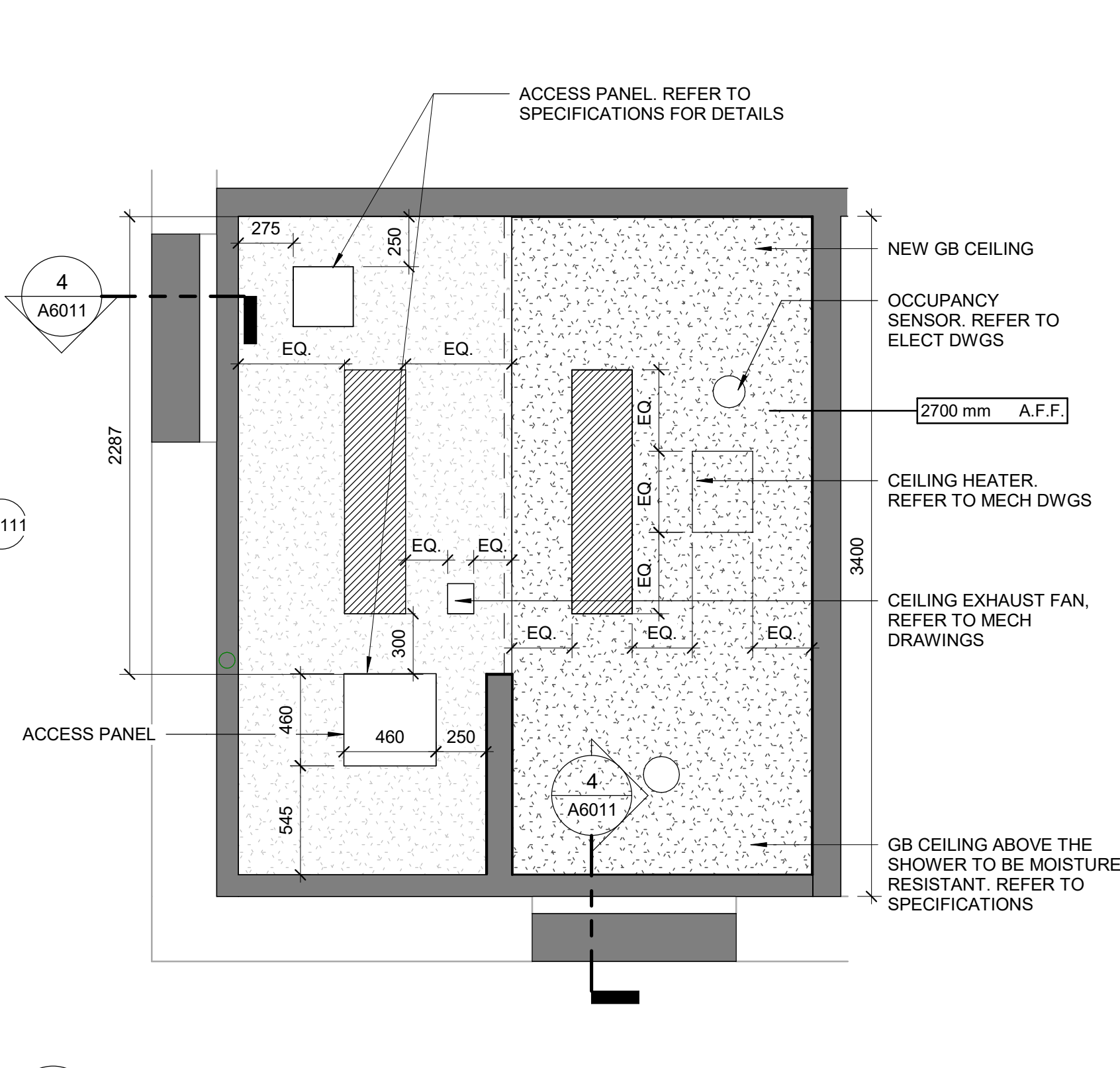
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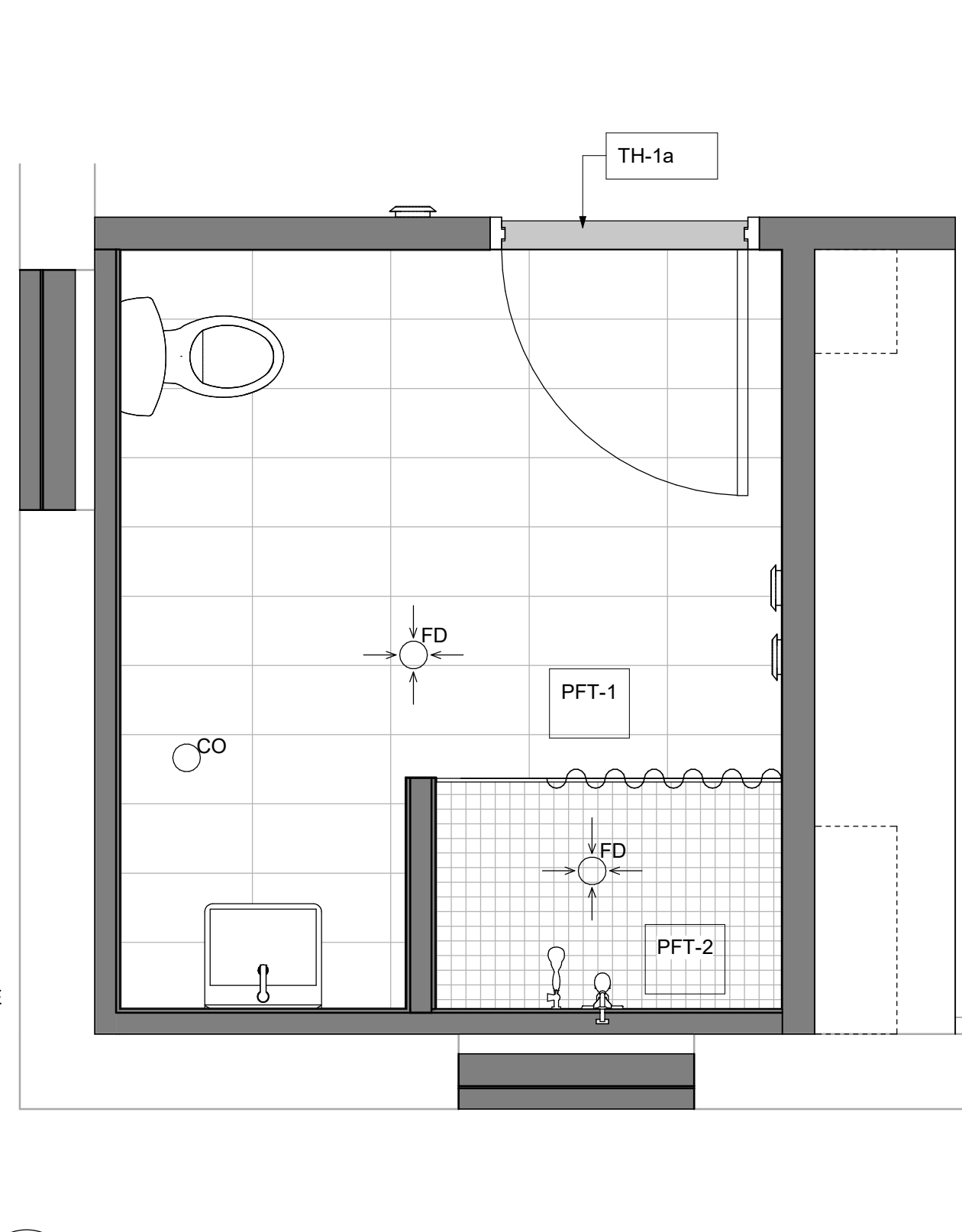




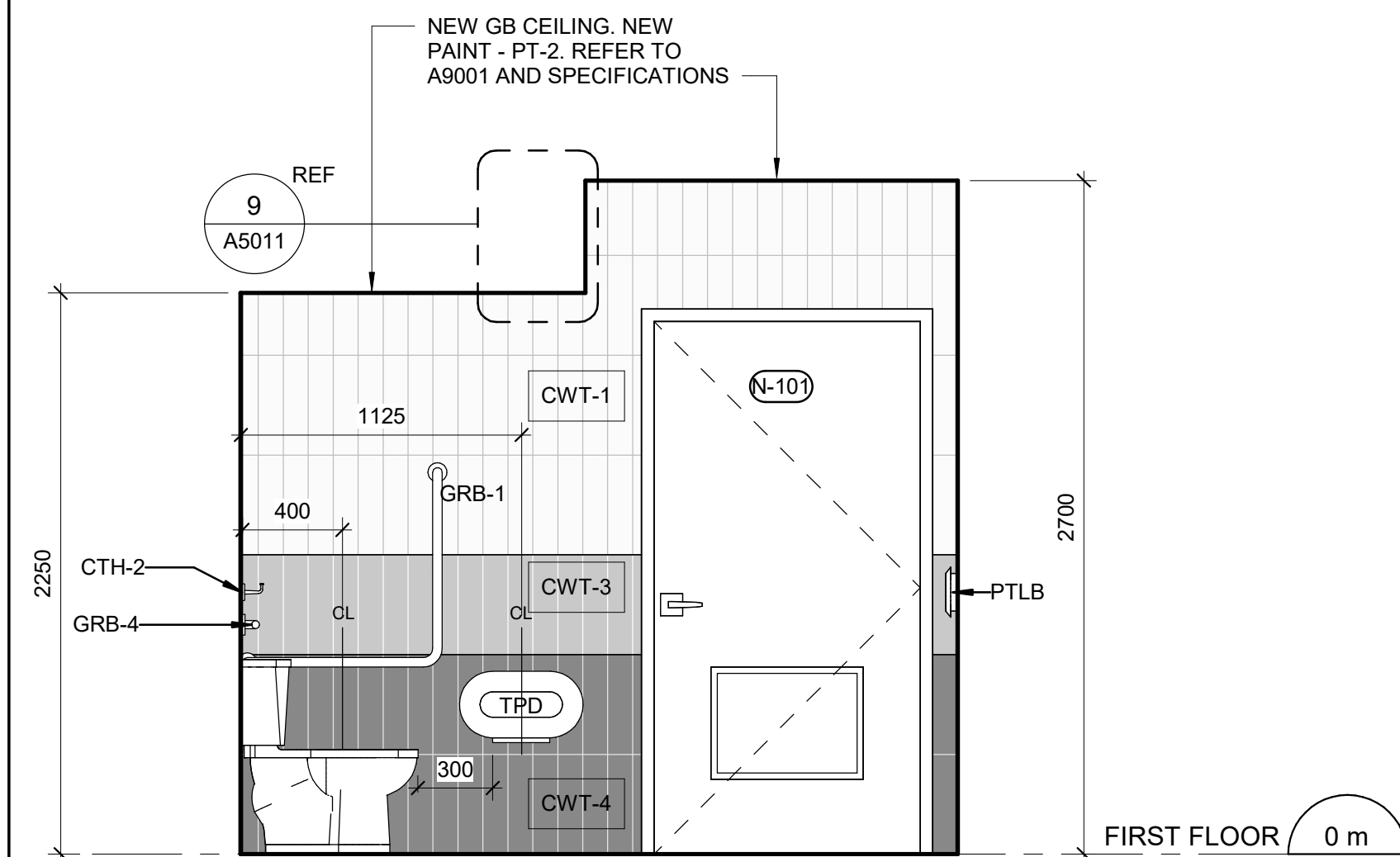
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Scale: 1 : 25



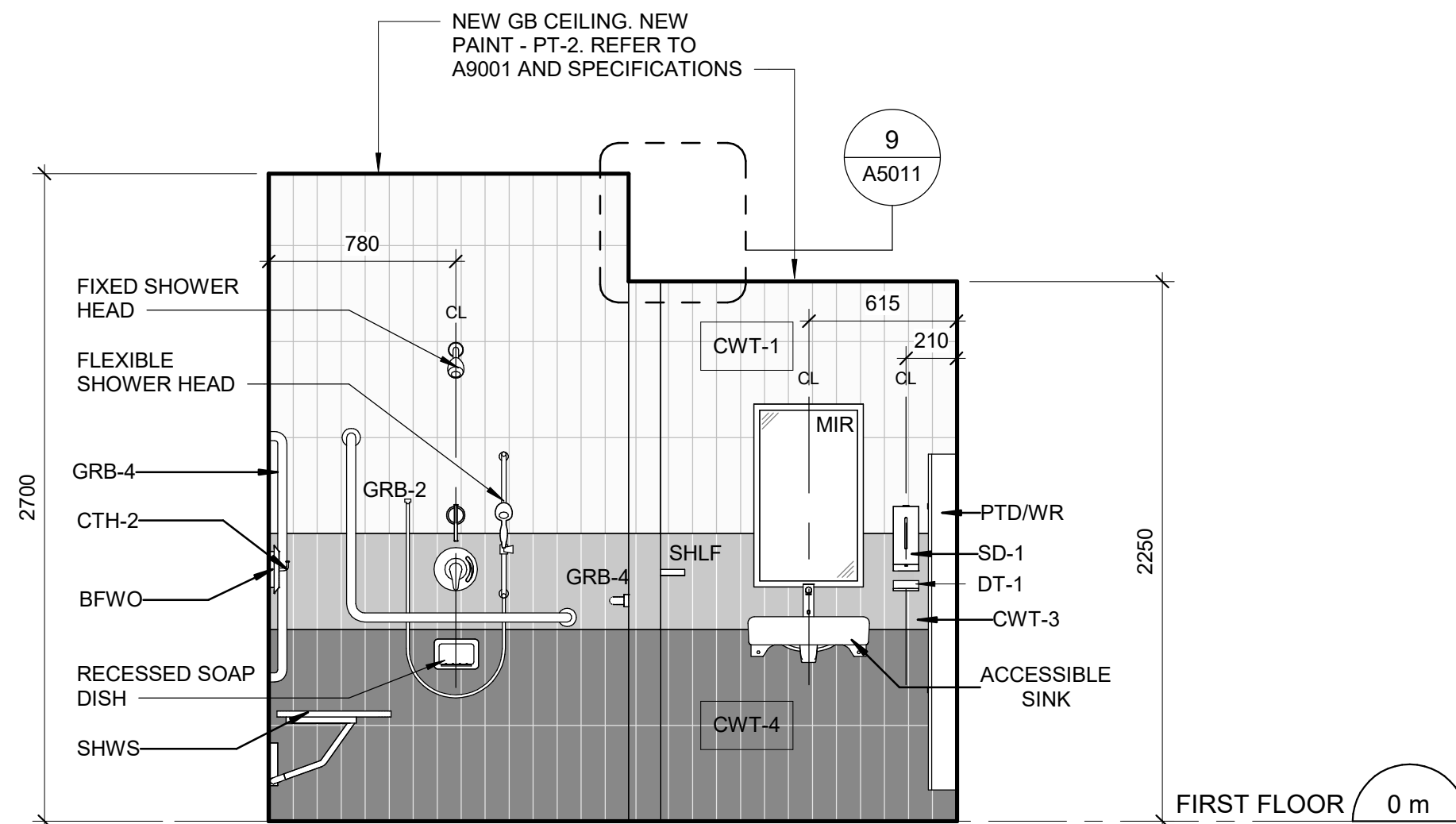
2 BARRIER FREE WASHROOM 101N - REFLECTED CEILING PLAN
Scale: 1 : 25



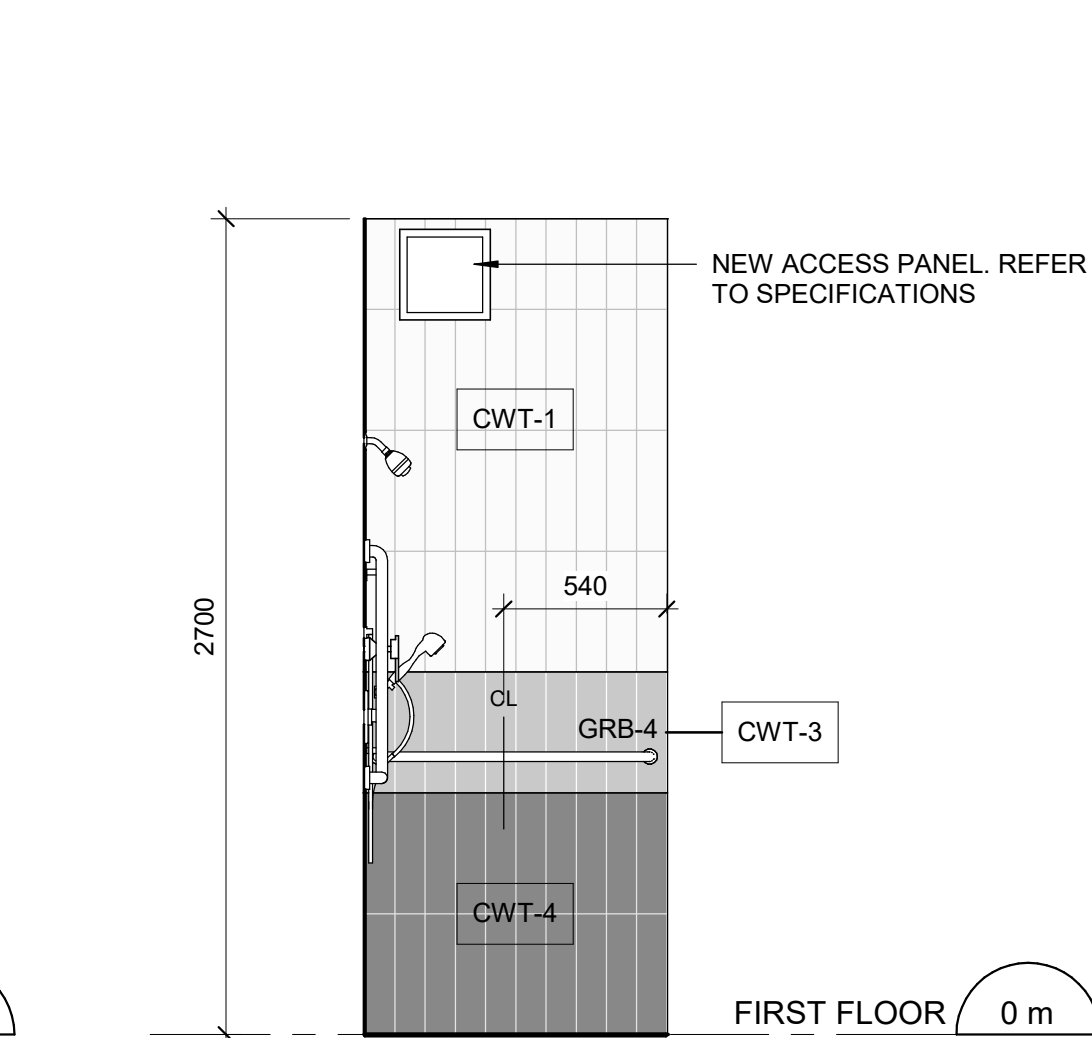
3 BARRIER FREE WASHROOM 101N - FLOOR FINISH PLAN
Scale: 1 : 25



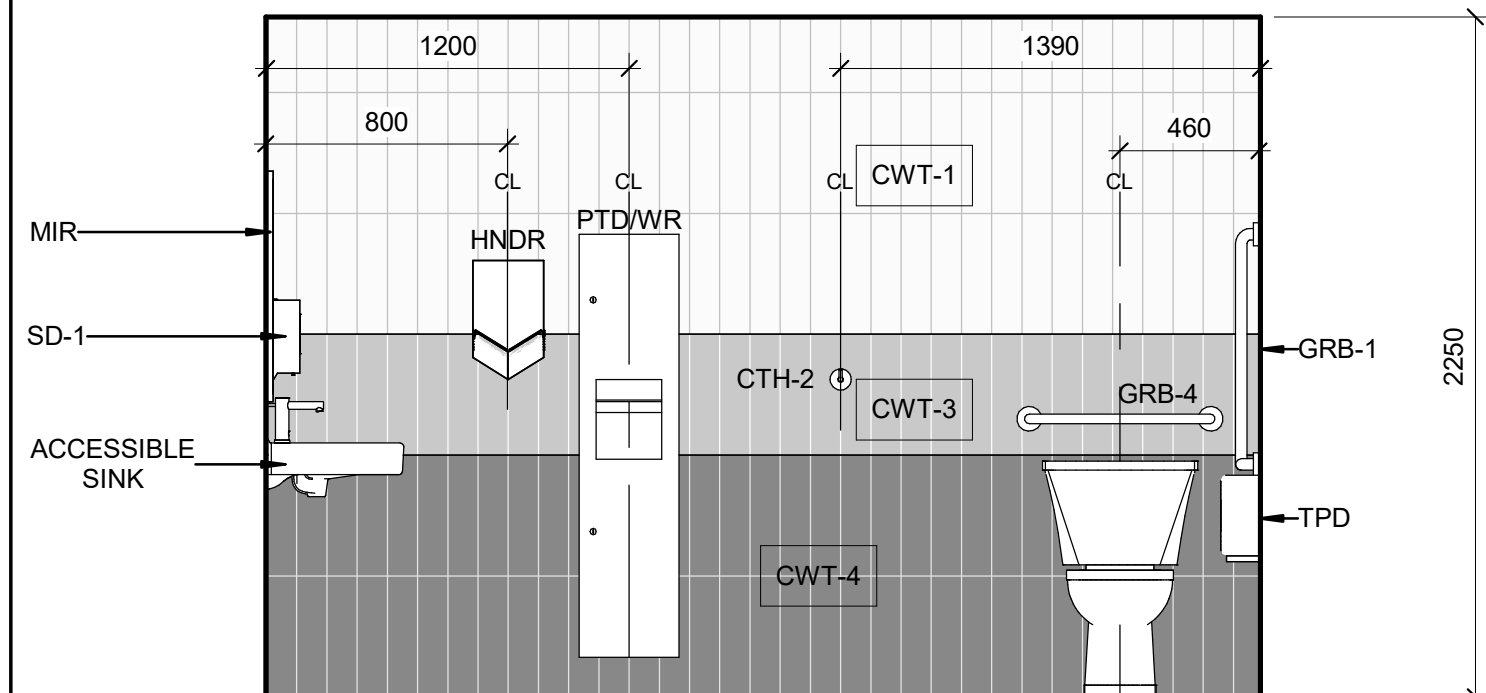
4 NORTH ELEVATION - BARRIER FREE WASHROOM 101N
Scale: 1 : 25



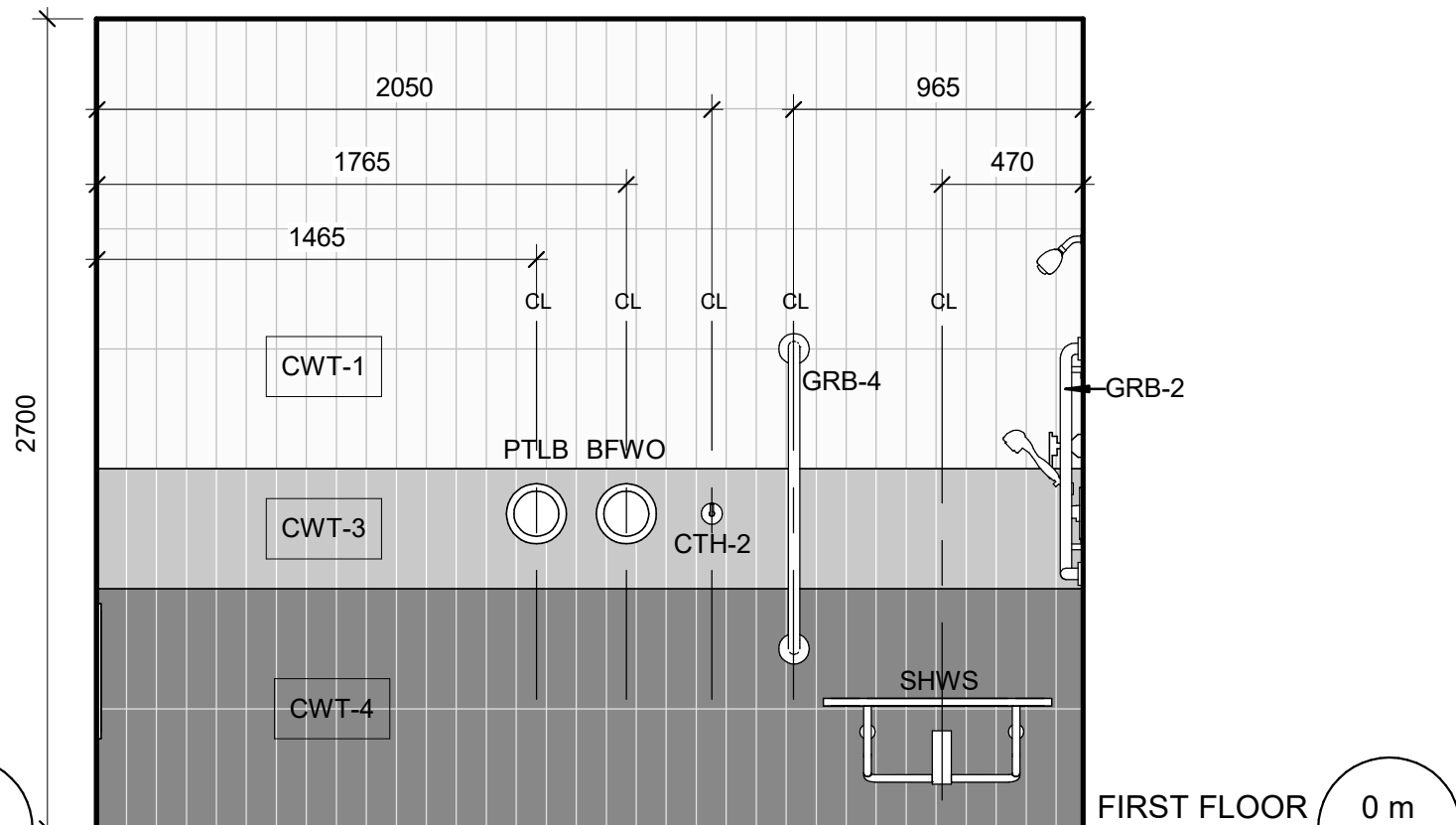
5 SOUTH ELEVATION - BARRIER FREE WASHROOM 101N
Scale: 1 : 25



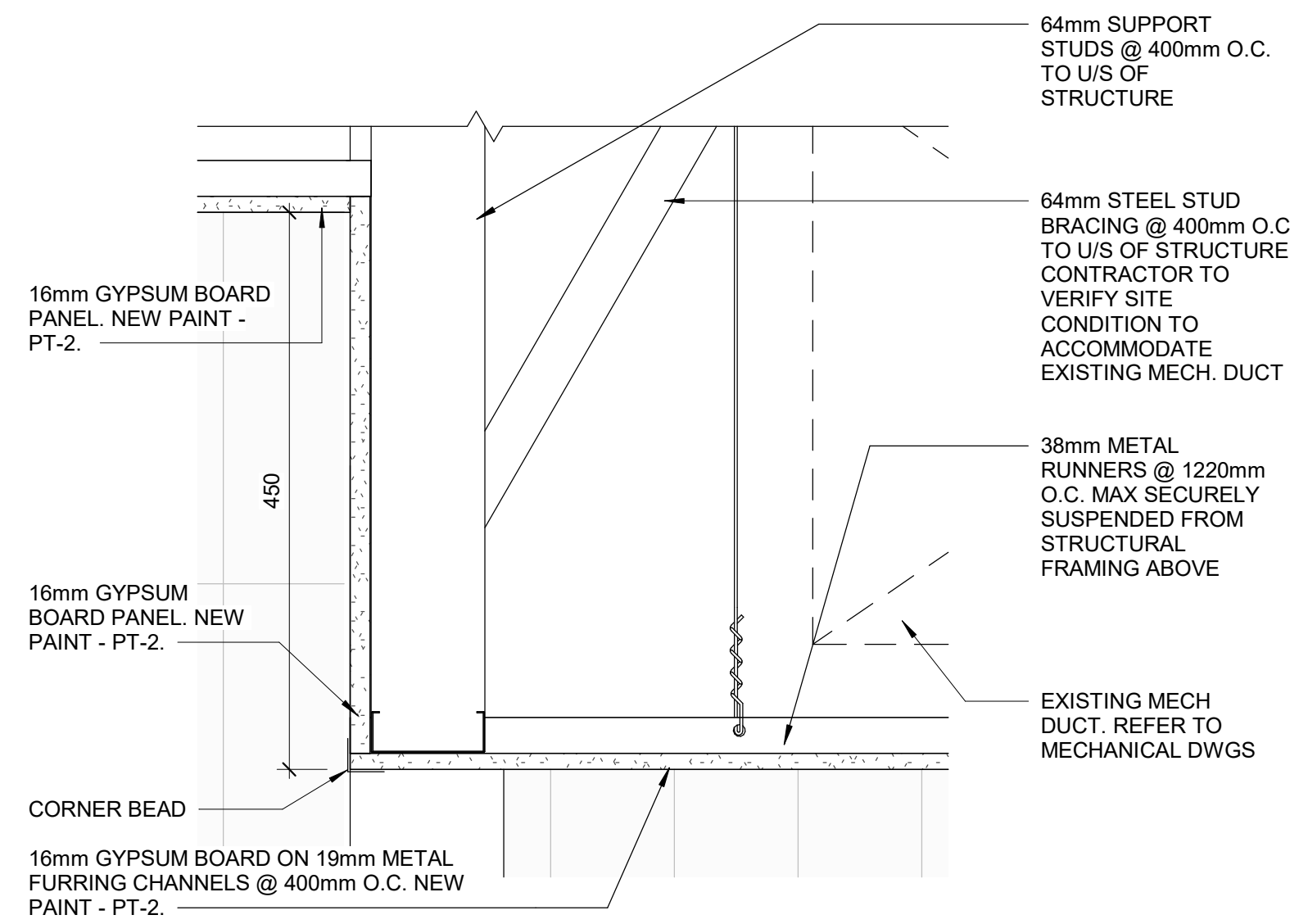
8 WEST ELEVATION - NEW SHOWER
Scale: 1 : 25



6 WEST ELEVATION - BARRIER FREE WASHROOM 101N
Scale: 1 : 25



7 EAST ELEVATION - BARRIER FREE WASHROOM 101N
Scale: 1 : 25



9 GYPSUM BOARD BULKHEAD DETAIL
Scale: 1 : 5

CONSTRUCTION KEY NOTES

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

CEILING GENERAL NOTES

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

CEILING LEGEND

	GYPSUM BOARD CEILING AND BULKHEAD
	SUPPLY / RETURN DUCT
	CEILING, PENDANT OR WALL MOUNTED LUMINAIRE
	CEILING OR PENDANT MOUNTED LUMINAIRE

FLOOR FINISHES LEGEND

	PORCELAIN SHOWER TILE
	PORCELAIN TILE

FLOOR FINISH GENERAL NOTES

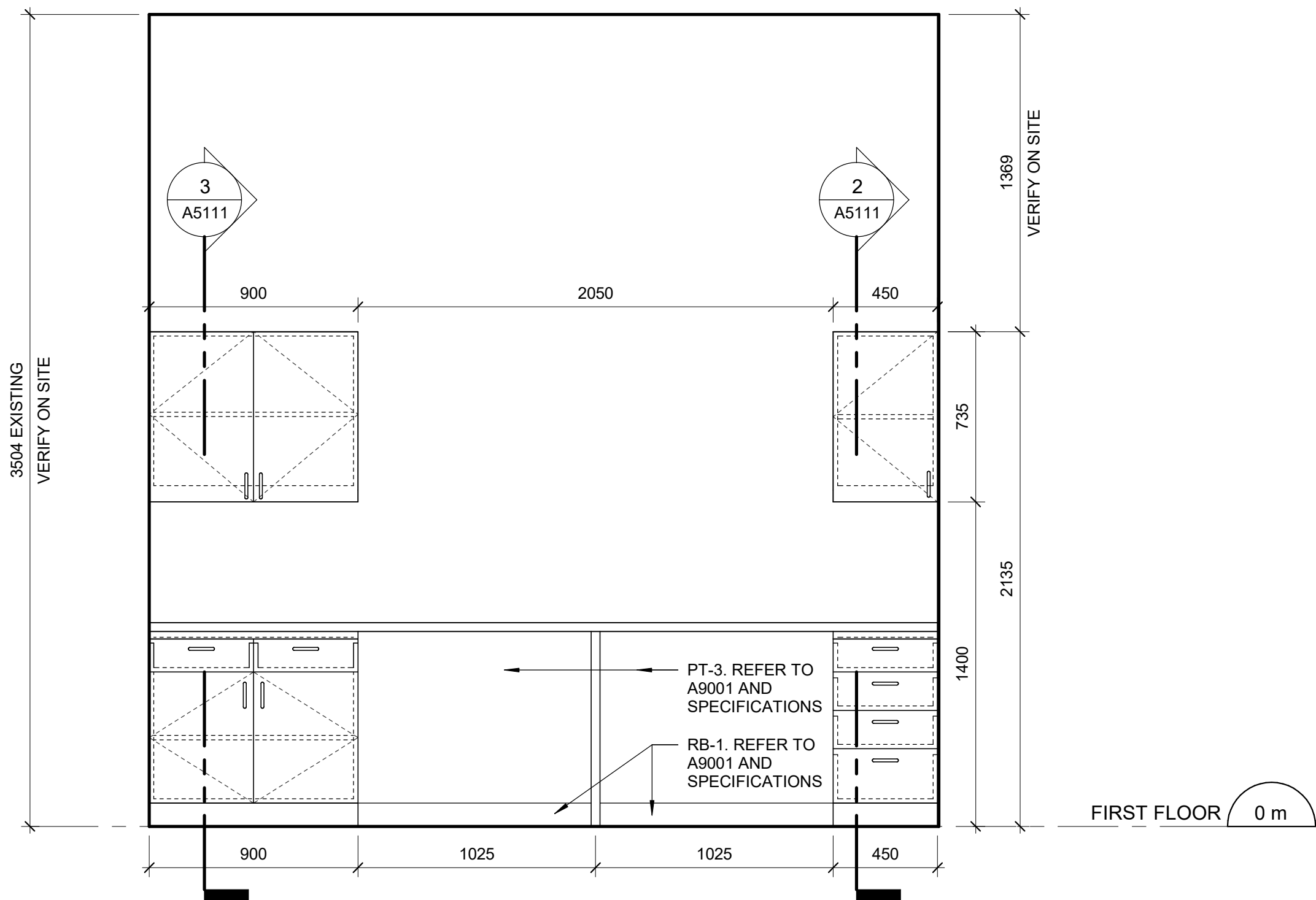
1	FLOOR FINISH PLANS TO BE READ IN CONJUNCTION WITH ROOM FINISH SCHEDULE AND SPECIFICATIONS.
2	PROTECT ALL NEW AND EXISTING FLOOR FINISHES WITH PLYWOOD SHEETS ANYWHERE OTHER CONSTRUCTION WORK IS STILL ONGOING.
3	CHANGE OF FLOORING MATERIAL TO OCCUR BELOW THE DOOR LEAF UNLESS OTHERWISE INDICATED.
4	WHERE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

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.
-------	--

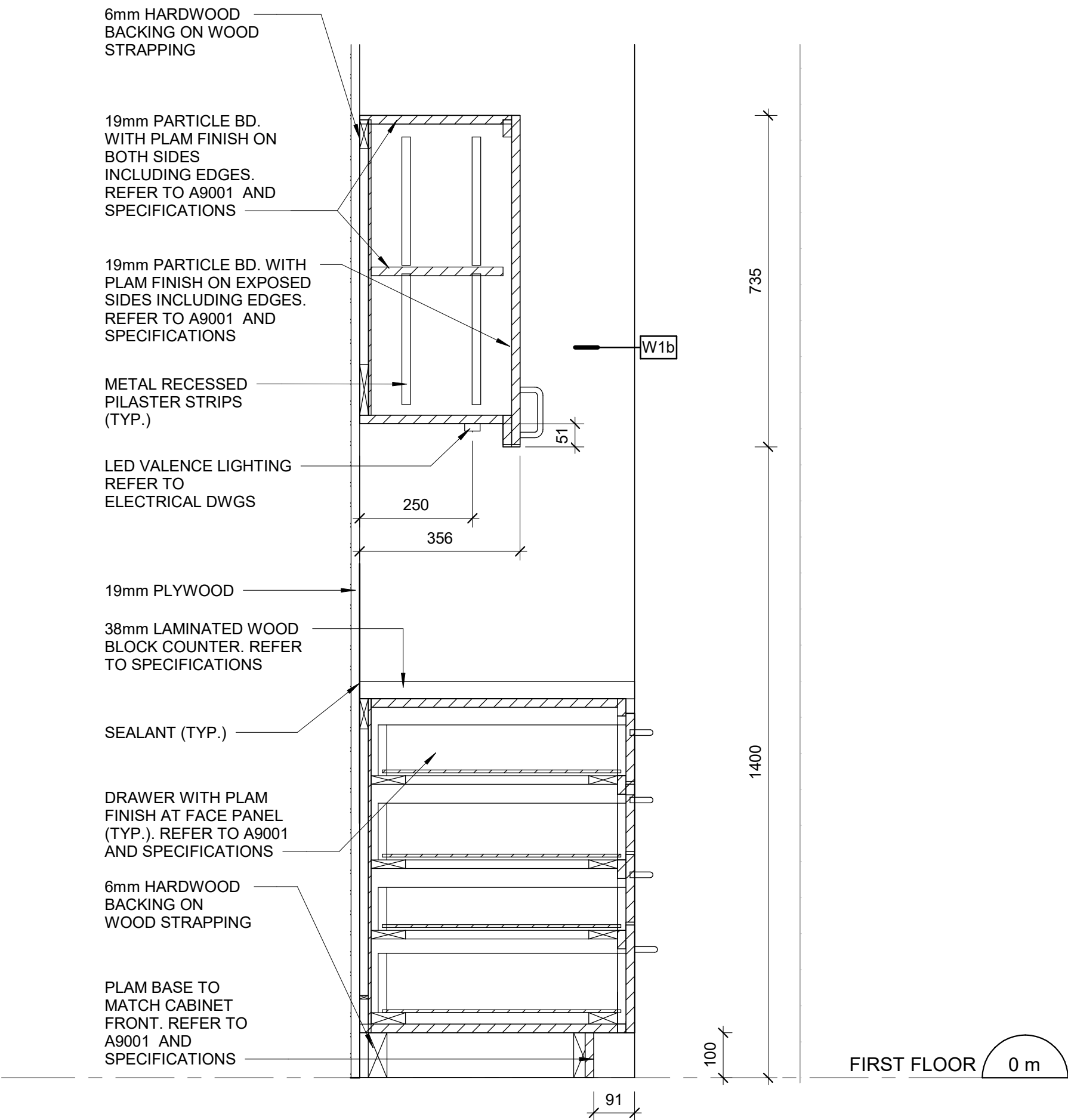
WASHROOM GENERAL NOTES

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

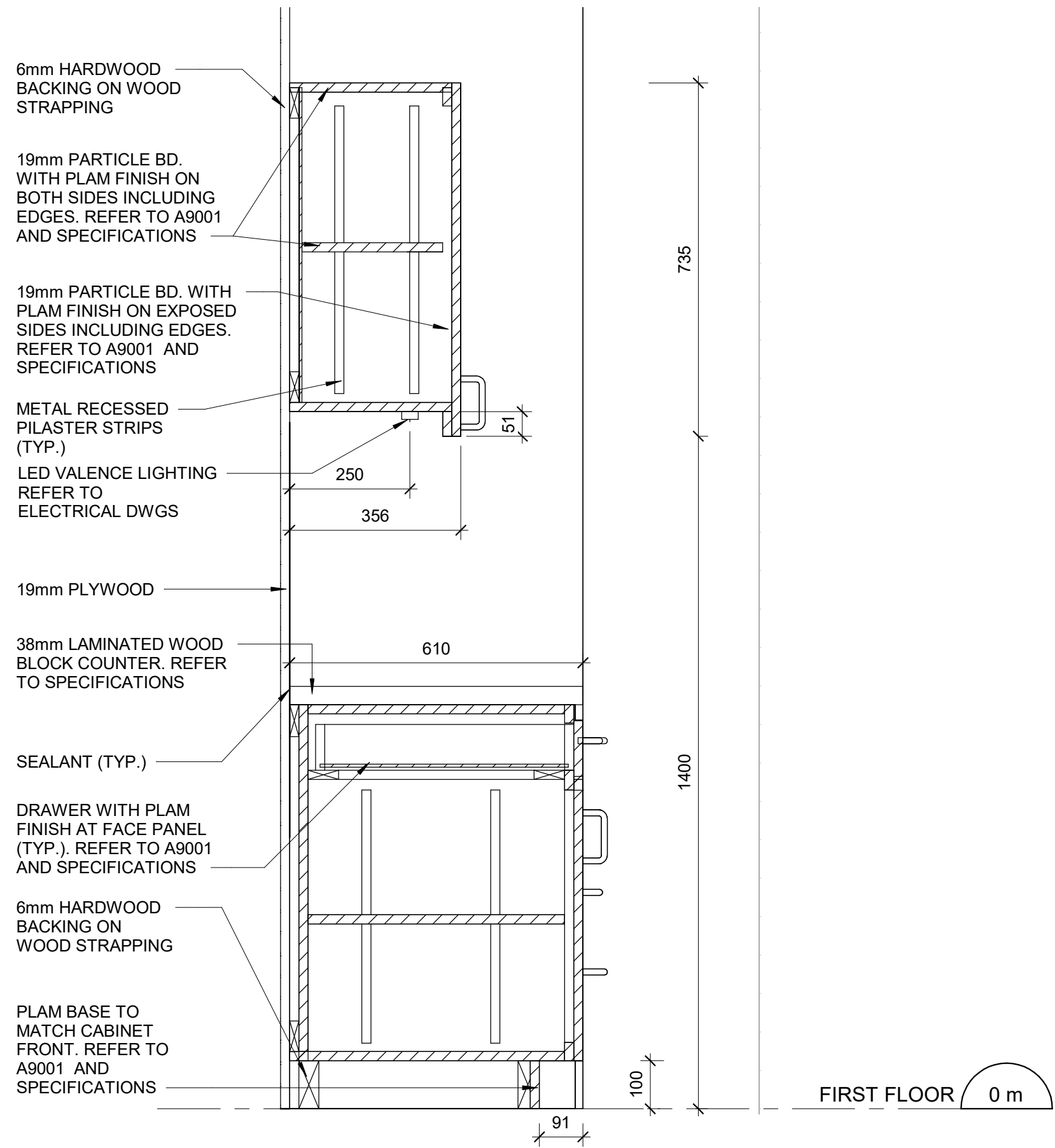
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1 WEST ELEVATION - NEW WORKSHOP
A0201 Scale: 1 : 20



2 BASE CABINETRY WITH FOUR DRAWERS SECTION DETAIL
A5111 Scale: 1 : 10



3 BASE CABINETRY WITH DRAWER SECTION DETAIL
A5111 Scale: 1 : 10

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.

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B	90% SUBMISSION	2022-02-22
C	ISSUED FOR PERMIT	2022-03-18
D	ISSUED FOR TENDER	2025-04-11

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PROJECT TITLE

**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

**FIRE HALL No.123
143 BOND AVENUE**

PROJECT NO:
9119-19-0162 - Arcadis 30279056

DRAWN BY:
A. BOYNARIAN

CHECKED BY:
K. TILAHUN

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
E. FENUTA

SHEET TITLE

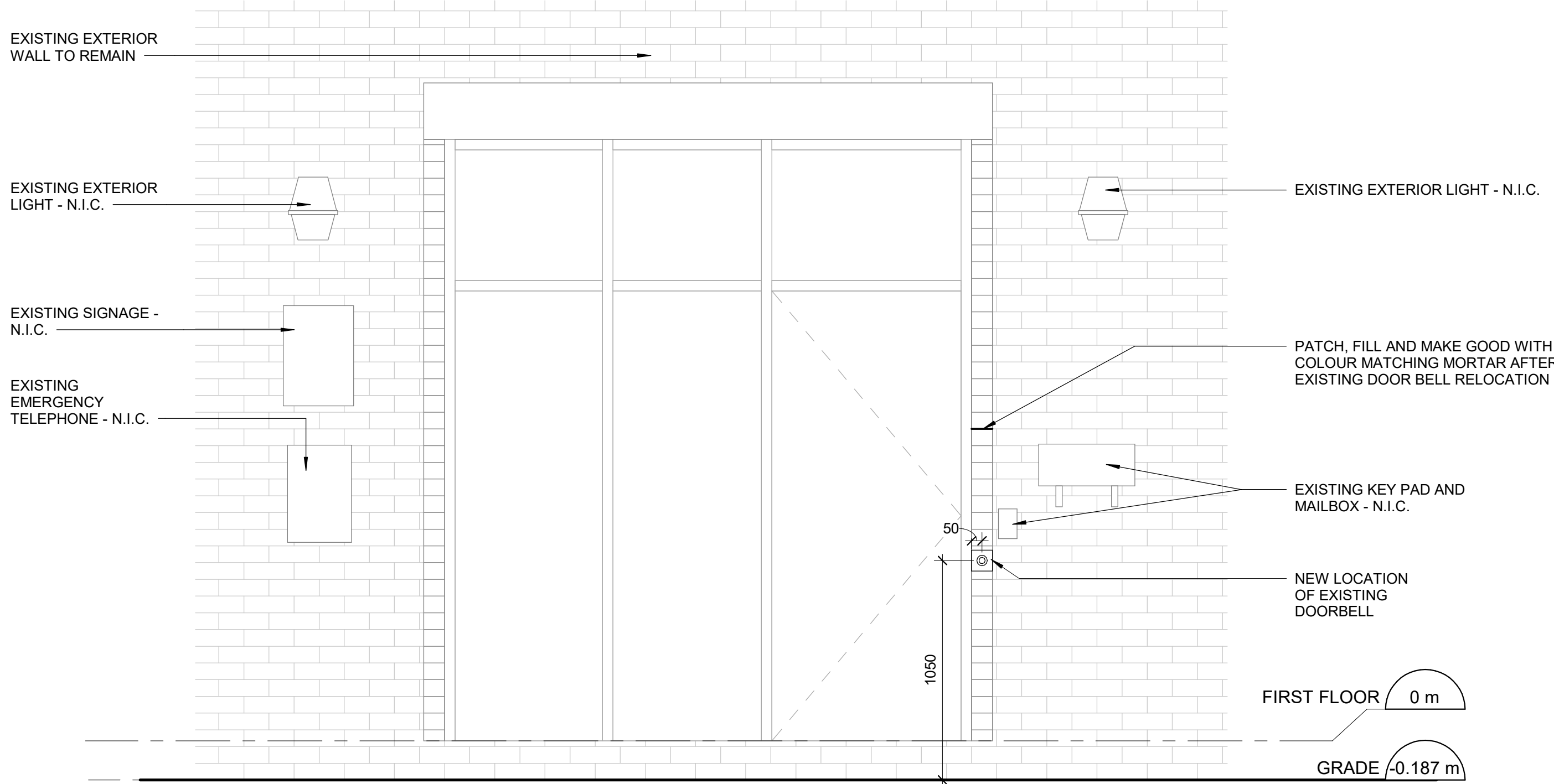
**WORKSHOP ELEVATION
AND SECTIONS**

SHEET NUMBER

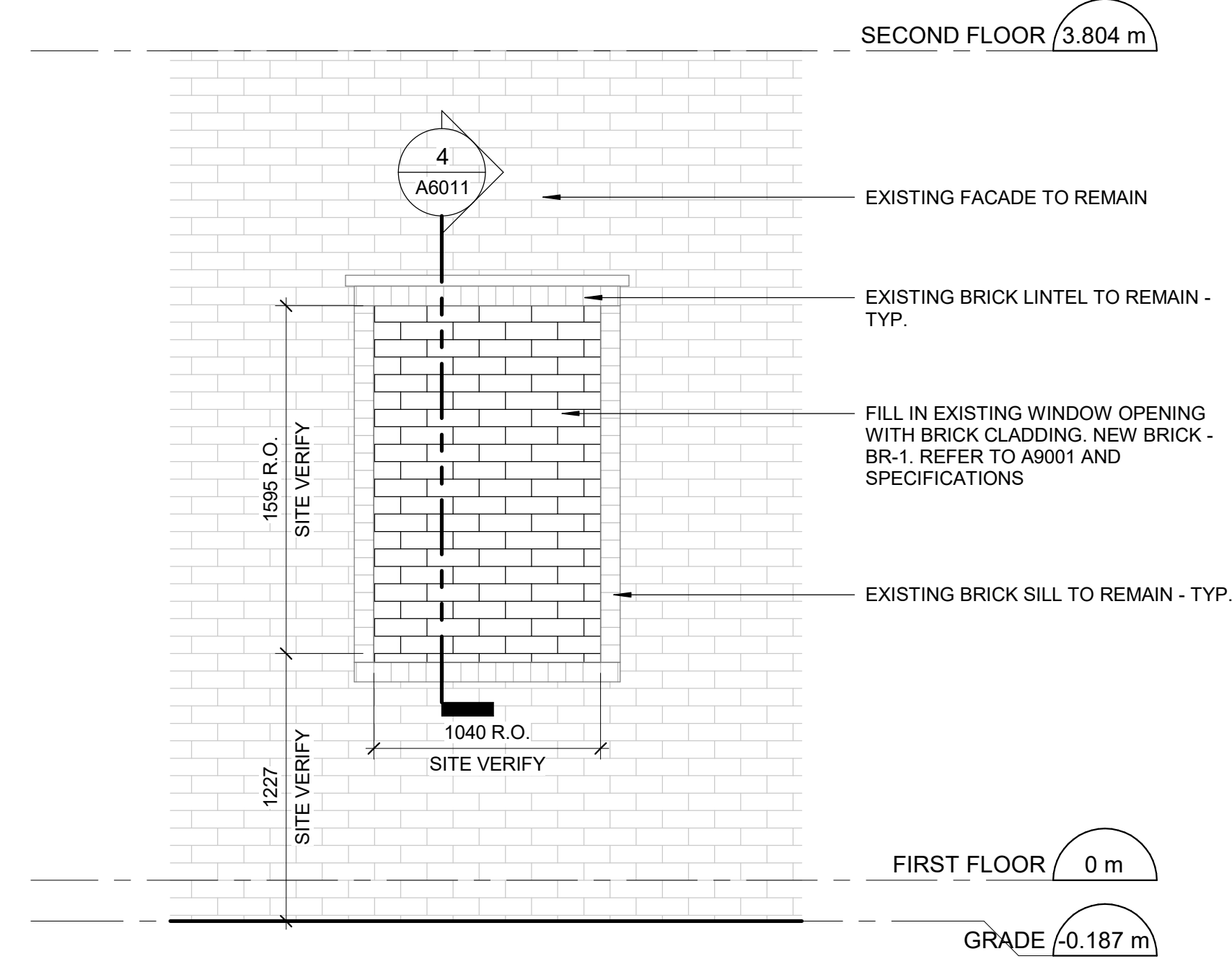
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ISSUE

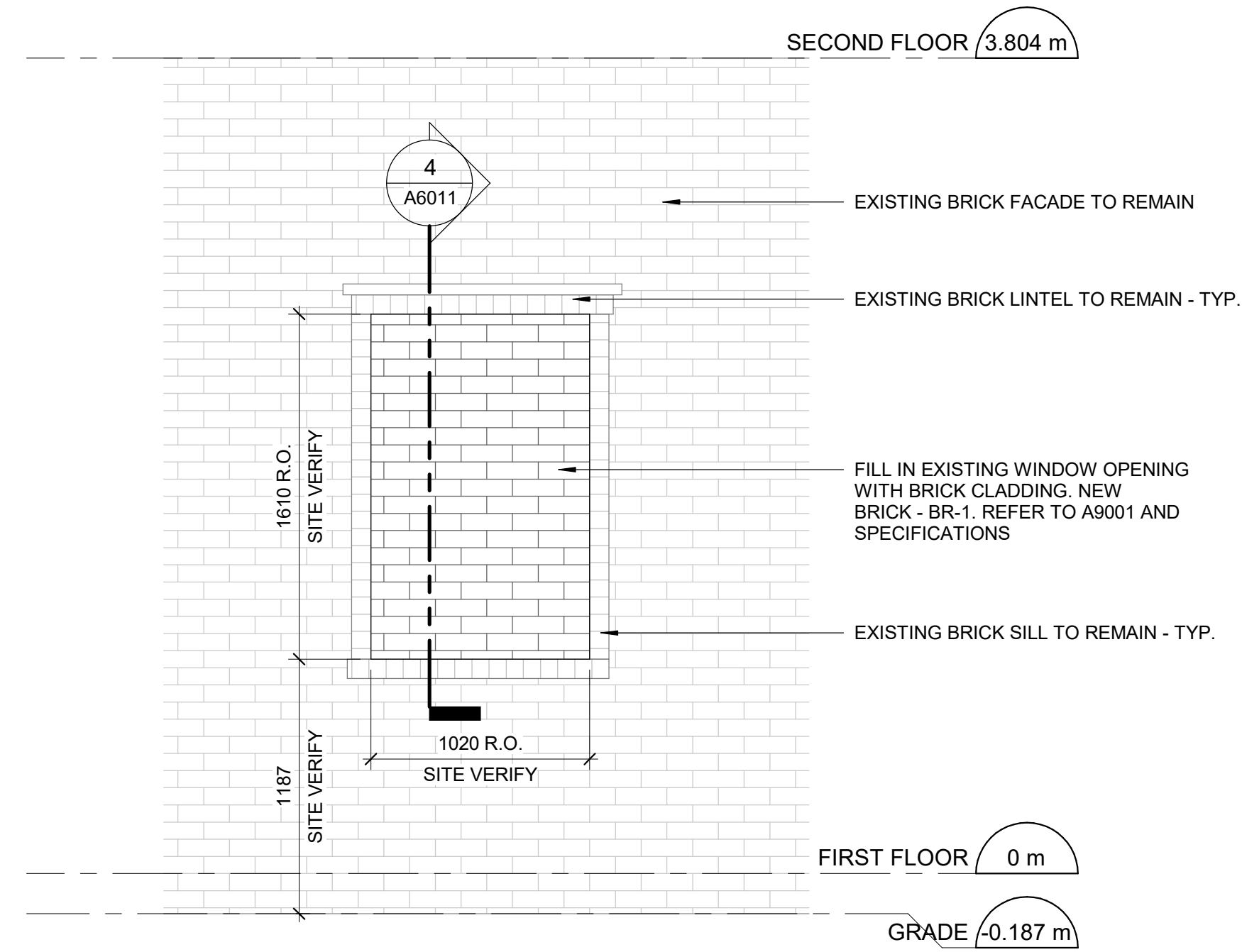
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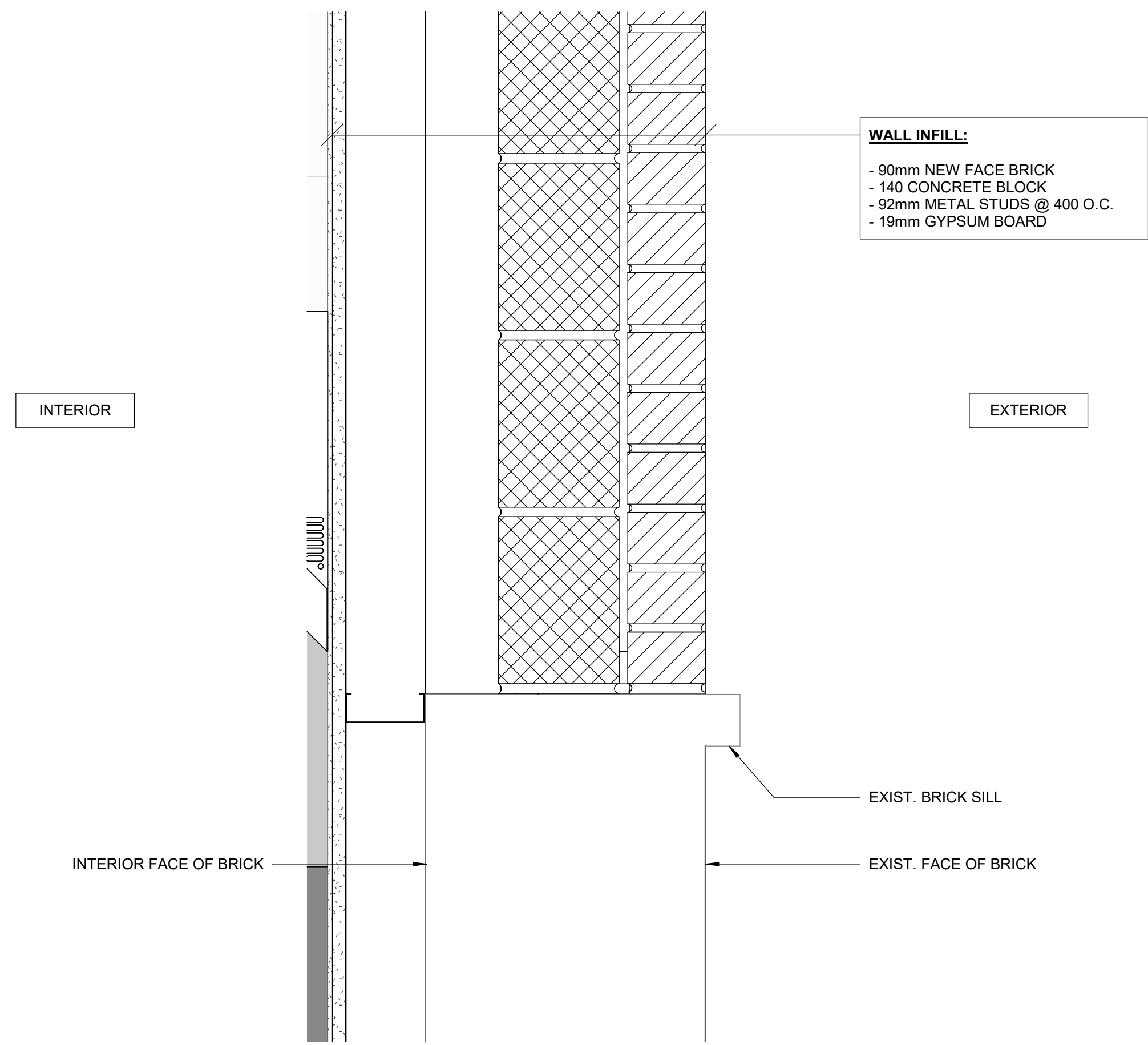
1 MAIN ENTRANCE - NORTH ELEVATION
A6011 Scale: 1 : 20



2 EXTERIOR WINDOW - WEST ELEVATION
A0201 Scale: 1 : 25



3 EXTERIOR WINDOW - SOUTH ELEVATION
A0201 Scale: 1 : 25



4 INFILL WINDOW DETAIL
A2411 Scale: 1 : 5

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ACCESSIBILITY UPGRADES**

PROJECT ADDRESS
**FIRE HALL No.123
143 BOND AVENUE**

PROJECT NO:
9119-19-0162 - Arcadis 30279056
DRAWN BY:
A. BOYNARIAN
PROJECT MGR:
F. BOLOURIAN
CHECKED BY:
K. TILAHUN
APPROVED BY:
E. FENUTA

SHEET TITLE
**PARTIAL BUILDING
ELEVATIONS AND
DETAILS**

SHEET NUMBER
G05-059-A6011
ISSUE
D

DOOR SCHEDULEING																		
DOOR NO.	LOCATION	DOOR				PANEL			FRAME		DOOR HARDWARE			FIRE RATING (MINUTES)	SIGN	REMARKS		
		TYPE	WIDTH	HEIGHT	THICKNESS	MAT.	FIN.	GLASS	MAT.	FIN.	SECURITY ACCESS CONTROL DEVICE	BFPB/BFWO/ BFAO	PANIC DEVICE					
FIRST FLOOR																		
N-101	WORKSHOP	A(L)	1067	2135	45	HM	PT-3	<->	HM	PT-3	<->	BFWO	<->	NA	YES			
NE-100	VESTIBULE	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-104	RADIO ROOM	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-105	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-106	WASHROOM	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-107	BUNKER ROOM	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-108A	APPARATUS BAY	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
SECOND FLOOR																		
NE-200	LOCKERS	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-203	LOCKERS	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-205A	BEDROOM	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-205B	KITCHEN	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-206A	LOCKERS	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-206B	LOCKERS	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-207	BEDROOM	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-208	LOCKERS	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-210	LOCKERS	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-211	LOCKERS	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		
NE-221	LOCKERS	EXIST	EXIST	EXIST	EXIST	EXIST	PT-3	EXIST	EXIST	PT-3	<->	<->	<->	<->	<->	EXIST. DOOR TO REMAIN - REPLACE DOOR LATCHSET (REFER TO HARDWARE SCHEDULE)		

ROOM FINISH SCHEDULE																		
ROOM NUMBER	ROOM NAME	FLOOR		BASE		NORTH				EAST		SOUTH		WEST		CEILING		
		MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	HEIGHT		
FIRST FLOOR																		
101N	UNIVERSAL WASHROOM	EXIST	PFT-1, PFT-2	EXIST	CWT-4	CONC	CWT-1, CWT-3, CWT-4	CONC	CWT-1, CWT-3, CWT-4	GWB	CWT-1, CWT-3, CWT-4	GWB	CWT-1, CWT-3, CWT-4	GB	PT-2	2250 & 2700		
102	APPARATUS BAY	EXIST	EXIST, TF-3	RB-1	EXIST, TF-3	EXIST	EXIST	EXIST	EXIST, CONC	PT-3	EXIST, CONC	PT-3	EXIST	EXIST	EXIST	EXIST		

ROOM FINISH KEY SCHEDULE													
ABBRV	MATERIAL	COLOUR	FINISH	SIZE	REF	SUPPLIER	NOTES						
BR-1	BRICK VENEER CLADDING	SOLSTICE MATT	MATTE	215mm X 60mm									
CWT-1	CERAMIC WALL TILE	ARCTIC WHITE	MATTE	100mm X 400mm (4"X16")	COLOUR AND DIMENSIONS SERIES	OLYMPIA TILE							
CWT-2	CERAMIC WALL TILE	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	GC TO PROVIDE SAMPLE FOR APPROVAL. TILE ENTIRE WALL AREA AS INDICATED IN DRAWINGS AND IN ROOM FINISH SCHEDULE.						
CWT-3	CERAMIC WALL TILE	TAUPE	MATTE	100mm X 400mm (4"X16")	COLOUR AND DIMENSIONS SERIES	OLYMPIA TILE	ACCENT SHOWER TILE						
CWT-4	CERAMIC WALL TILE	DARK GREY	MATTE	100mm X 400mm (4"X16")	COLOUR AND DIMENSIONS SERIES	OLYMPIA TILE	ACCENT SHOWER TILE						
PFT-1	PORCELAIN FLOOR TILE	MICA	MATTE	300mm X 600 mm (12"X24")		D9/EMOTION							
PFT-2	PORCELAIN FLOOR TILE	MID GREY UNGLAZ	MATTE	50mm X 50mm (2"X2")	MEETS DCOF	STONE TILE	SHOWER FLOOR TILE						
PLAM-1	PLASTIC LAMINATE	ALABASTER D431	N/A	AS SPECIFIED IN DRAWINGS		WILSONART	CABINET MILWORKS UPpers						
PLAM-2	PLASTIC LAMINATE	SEA D90	N/A	AS SPECIFIED IN DRAWINGS		WILSONART NORTH	CABINET MILWORKS LOWERS						
PT-2	PAINT	OC-64 PURE WHITE	FLAT	N/A		BENJAMIN MOORE	CEILINGS						
PT-3	PAINT	MATCH EXISTING PAINT	TBD	N/A		BENJAMIN MOORE	GC TO PROVIDE SAMPLE ON 12"X12" CARD FOR APPROVAL. PAINT ENTIRE WALL OR CEILING AS SPECIFIED IN ROOM FINISH SCHEDULE.						
RB-1	RUBBER WALL BASE	MATCH EXISTING	MATCH EXISTING	4" HIGH		JOHNSONITE							
TF-3	TERRAZZO FLOORING	MATCH EXISTING	MATCH EXISTING	3/4" THICK	RESUFLOL SCREED TG46 SYSTEM	SHERWIN-WILLIAMS	GC TO PROVIDE THREE SAMPLES TO BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION						

DOOR SCHEDULE GENERAL NOTES	
1	DOOR HEIGHT IS FOR INFO ONLY DOOR HEIGHT TO MATCH EXISTING DOOR HEIGHT AND IS TO BE SITE MEASURED.
2	REFER TO ELECTRICAL DRAWINGS FOR DOOR CARD READER LOCATION ON EXISTING DOORS.
3	REFER TO DOOR HARDWARE SCHEDULE AND TO THE SPECIFICATIONS FOR A COMPLETE SET OF DOOR HARDWARE.

DOOR ABBREVIATIONS	
* ALUM	DENOTES YES
ANOD	ALUMINUM
BFAO	ANODIZED
BFPB	BARRIER-FREE AUTOMATIC OPENER
BFWO	BARRIER-FREE PUSH BUTTON
CR	BARRIER-FREE WAVE TO OPEN
EXIST	CARD READER
FBM	EXISTING
GWG	FINGER BIOMETRIC
HM	GEORGIAN WIRE GLASS
IHM	HOLLOW METAL
ITGL	INSULATED HOLLOW METAL
KP	INSULATED TEMPERED (SAFETY) GLASS
OBM	KEY PAD
PF	OCULAR BIOMETRIC
PLAM	PRE FINISHED
PT	PLASTIC LAMINATE
SIM	PAINT
SS	SIMILAR
TGL	STAINLESS STEEL
WD	TEMPERED GLASS
	WOOD

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.

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PROJECT TITLE
CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

FIRE HALL No.123
143 BOND AVENUE

PROJECT NO: 9119-19-0162 - Arcadis 30279056	
DRAWN BY: A. BOYNARIAN	CHECKED BY: K. TILAHUN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: E. FENUITA

SHEET TITLE
DOOR AND ROOM FINISH
SCHEDULES

SHEET NUMBER G05-059-A9001	ISSUE D
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Sheet List	
Sheet Number	Sheet Name
06 - Structural	
S0001	DRAWING LIST
S1201	SITE PLAN
S5900	NEW WASHROOM PLAN

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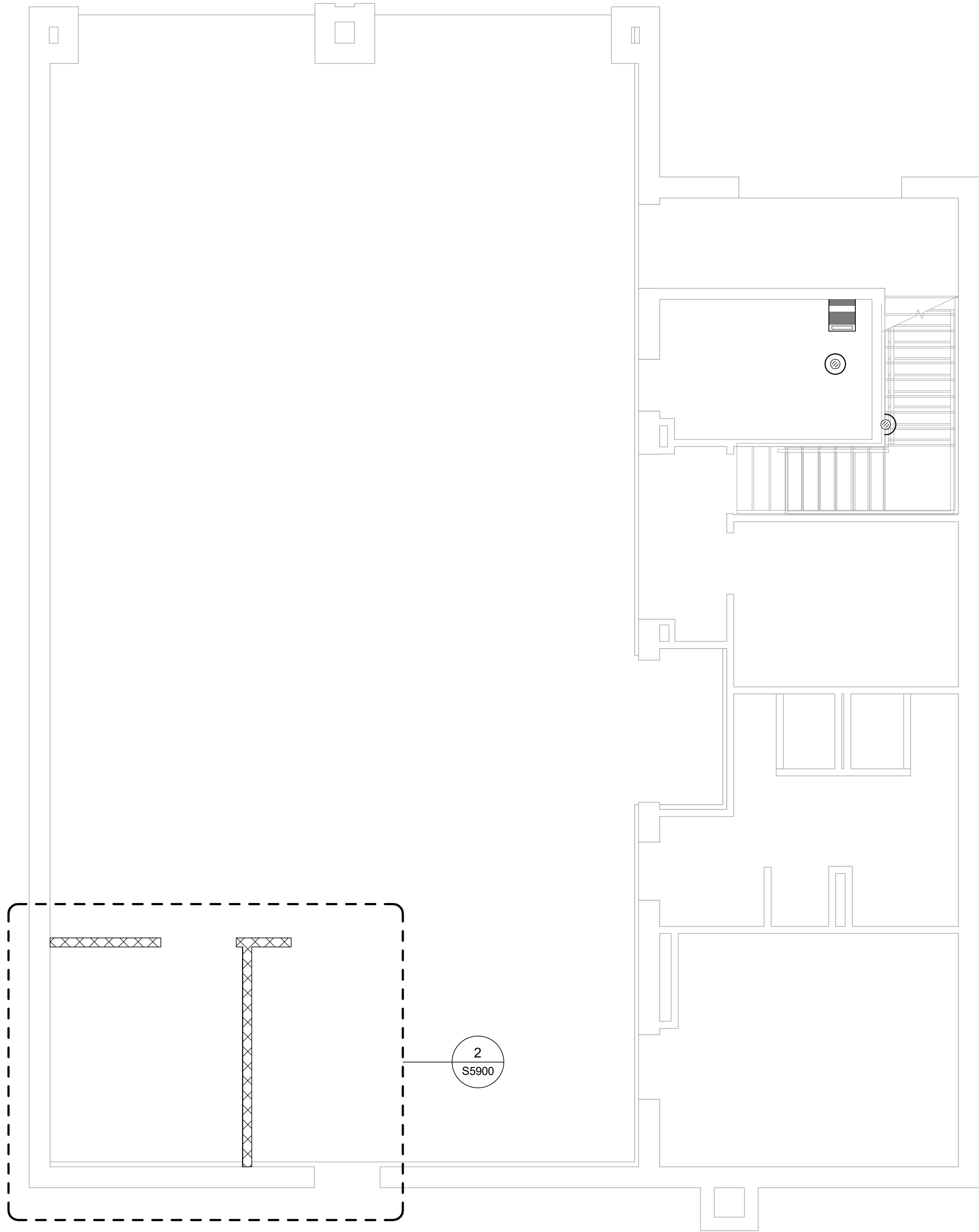
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DRAWN BY: G. POULOU	CHECKED BY: M. FAYAZI
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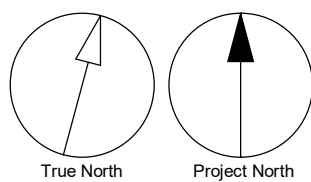
PROJECT MGR: F. BOLOURIAN	APPROVED BY: K. ANGER
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SHEET TITLE
DRAWING LIST

SHEET NUMBER	ISSUE
G05-059-S0001	D



1 SITE PLAN
S1201 Scale: 1 : 50



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PROJECT ADDRESS

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PROJECT NO:
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DRAWN BY:
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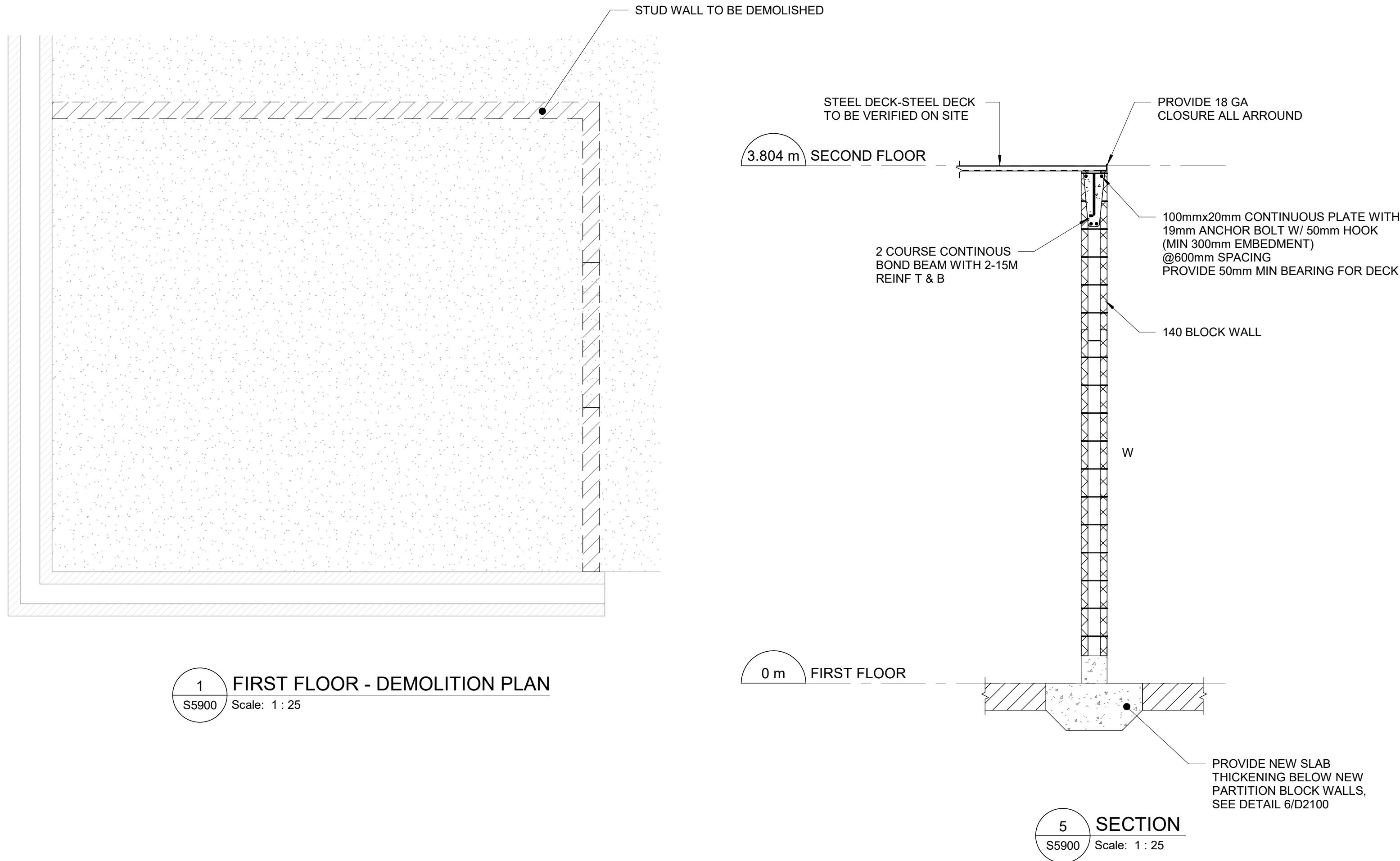
PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
K. ANGER

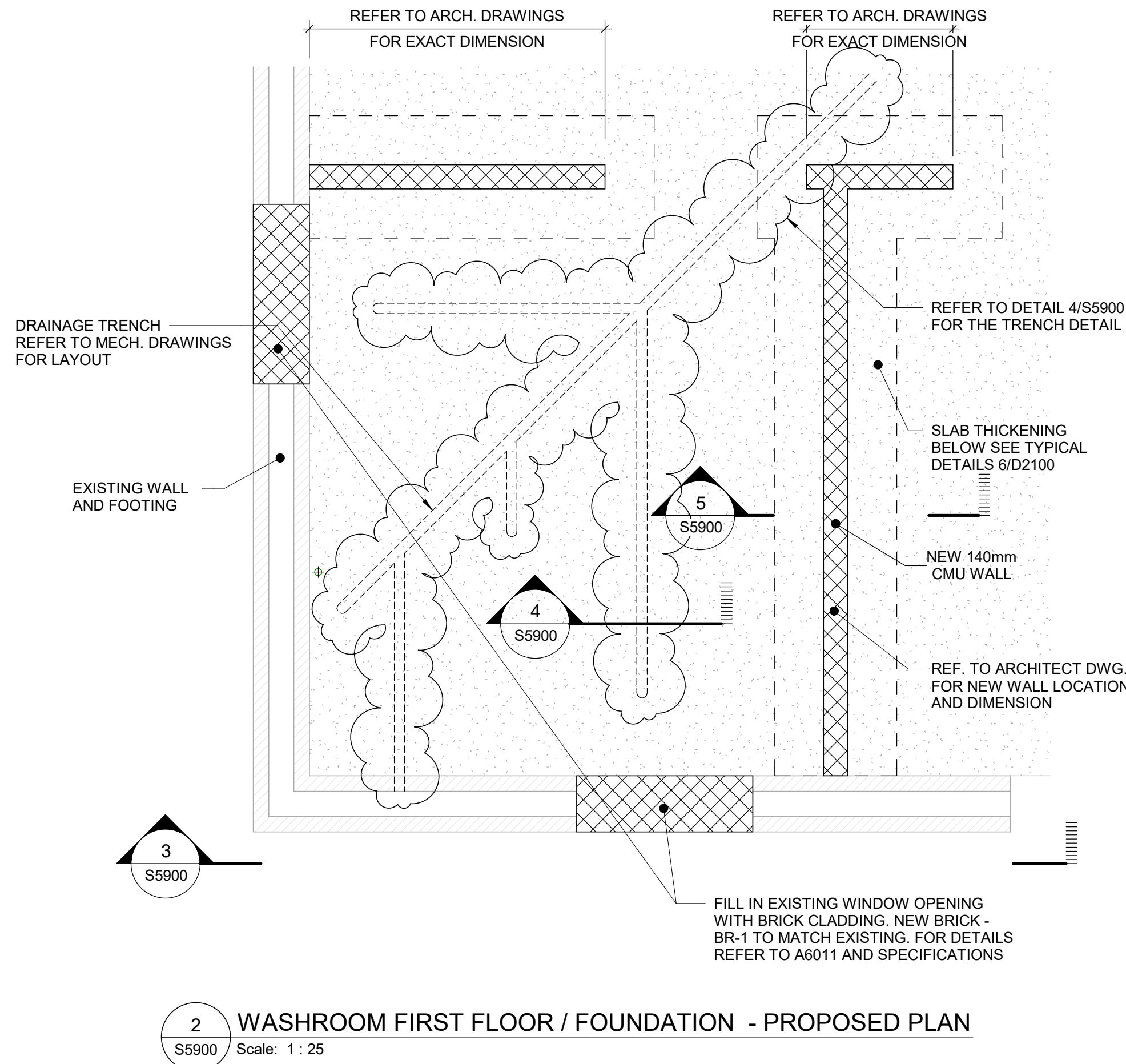
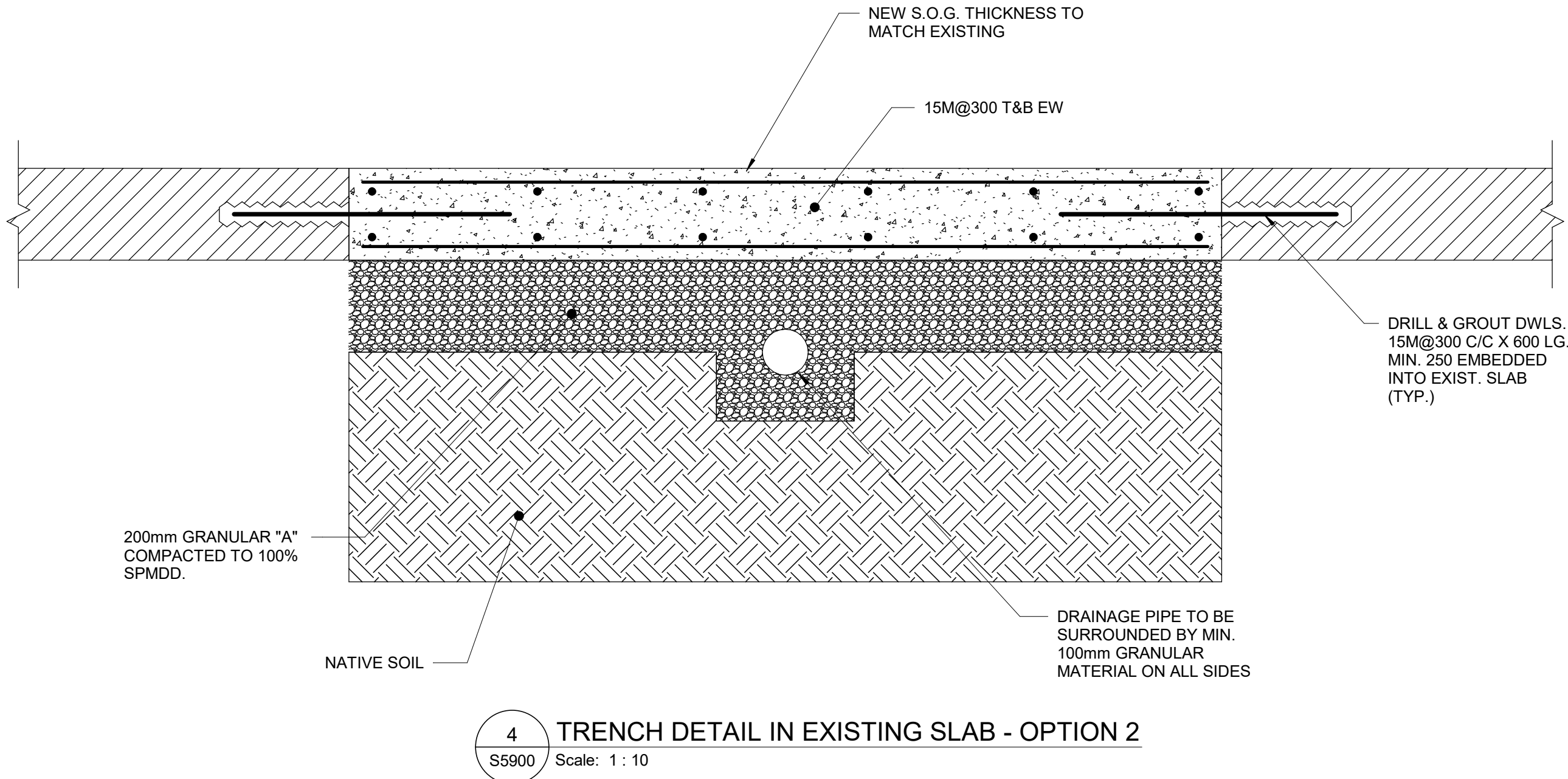
SHEET TITLE
SITE PLAN

SHEET NUMBER
G05-059-S1201

ISSUE
D

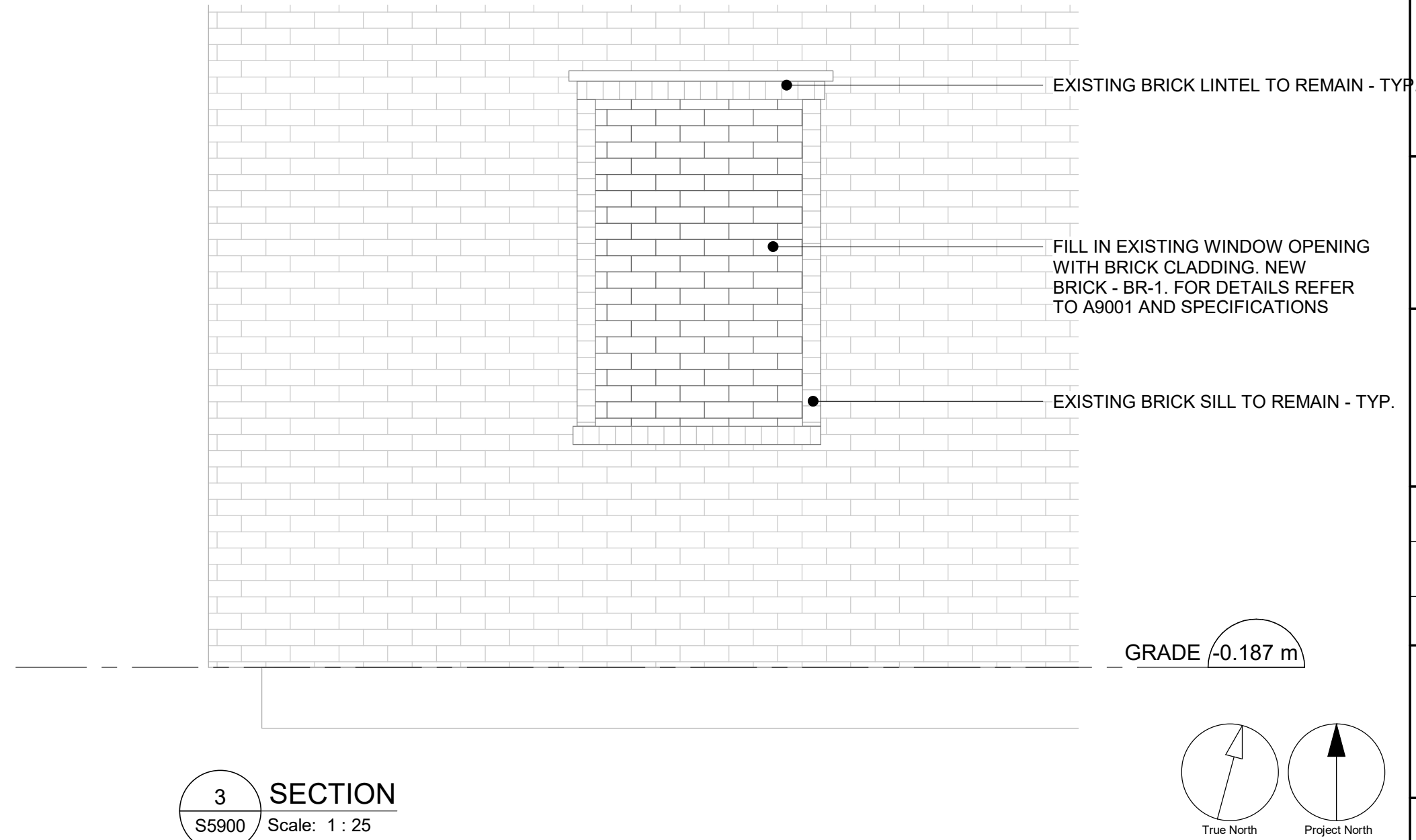


BLOCK WALL SCHEDULE				
MARK	WALL TYPE	VERT. REINFORCING	HORIZ. REINFORCING	REMARKS
W	140mm	15M@ 600 C/C	10M@600	1. WALL TO BE GROUTED AT REINFORCED CELLS. 2. WALL TO BE DOUBLE-WYTHE WITH GROUTED COLLAR JOINT




NOTES:

- SLAB ASSUMED TO BE SLAB ON GRADE. CONTRACTOR TO VERIFY ON SITE, THAT SLAB IS ON GARDE WITH NO BASEMENT OR UNDERGROUND LEVEL AND NOTIFY IBI.
- LINTEL TO BE PROVIDED ON THE DOOR OPENING. REFER TO STRUCTURAL TYPICAL DETAIL D2300 FOR MORE DETAILS AND LINTEL SCHEDULE.



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PROJECT TITLE

CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

Fire Hall No.123
143 Bond Avenue

PROJECT NO:

9119-19-0162 - Arcadis 30279056

DRAWN BY:

G. POULOU

CHECKED BY:

M. FAYAZI

PROJECT MGR:

F. BOLOURIAN

APPROVED BY:

K. ANGER

SHEET TITLE

NEW WASHROOM PLAN

SHEET NUMBER

G05-059-S5900

ISSUE

D

MECHANICAL DRAWING LIST	
Sheet Number	Sheet Name
M0001	MECHANICAL DRAWING LIST
M0201	EQUIPMENT SCHEDULE
M1101	DEMOLITION PLAN - GROUND FLOOR
M2101	PLUMBING - GROUND FLOOR
M3101	DRAINAGE - GROUND FLOOR
M5101	HVAC - GROUND FLOOR

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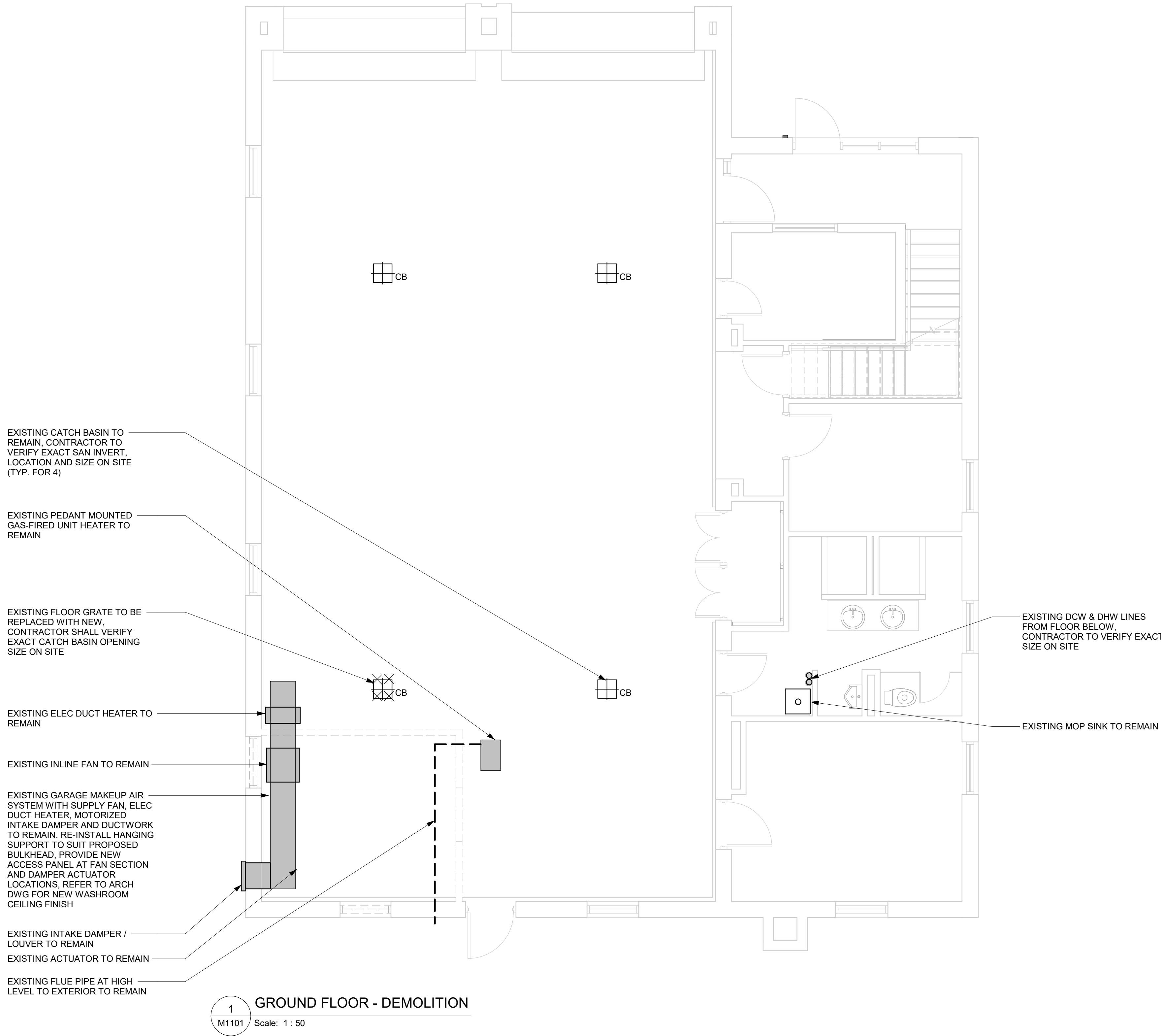
DRAWN BY: K. DURUKAN	CHECKED BY: B. LIAO
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. LIU
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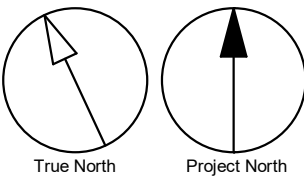
SHEET TITLE
MECHANICAL DRAWING
LIST

SHEET NUMBER G05-059-M0001	ISSUE D
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4/28/2025 10:40:46 AM



- 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.



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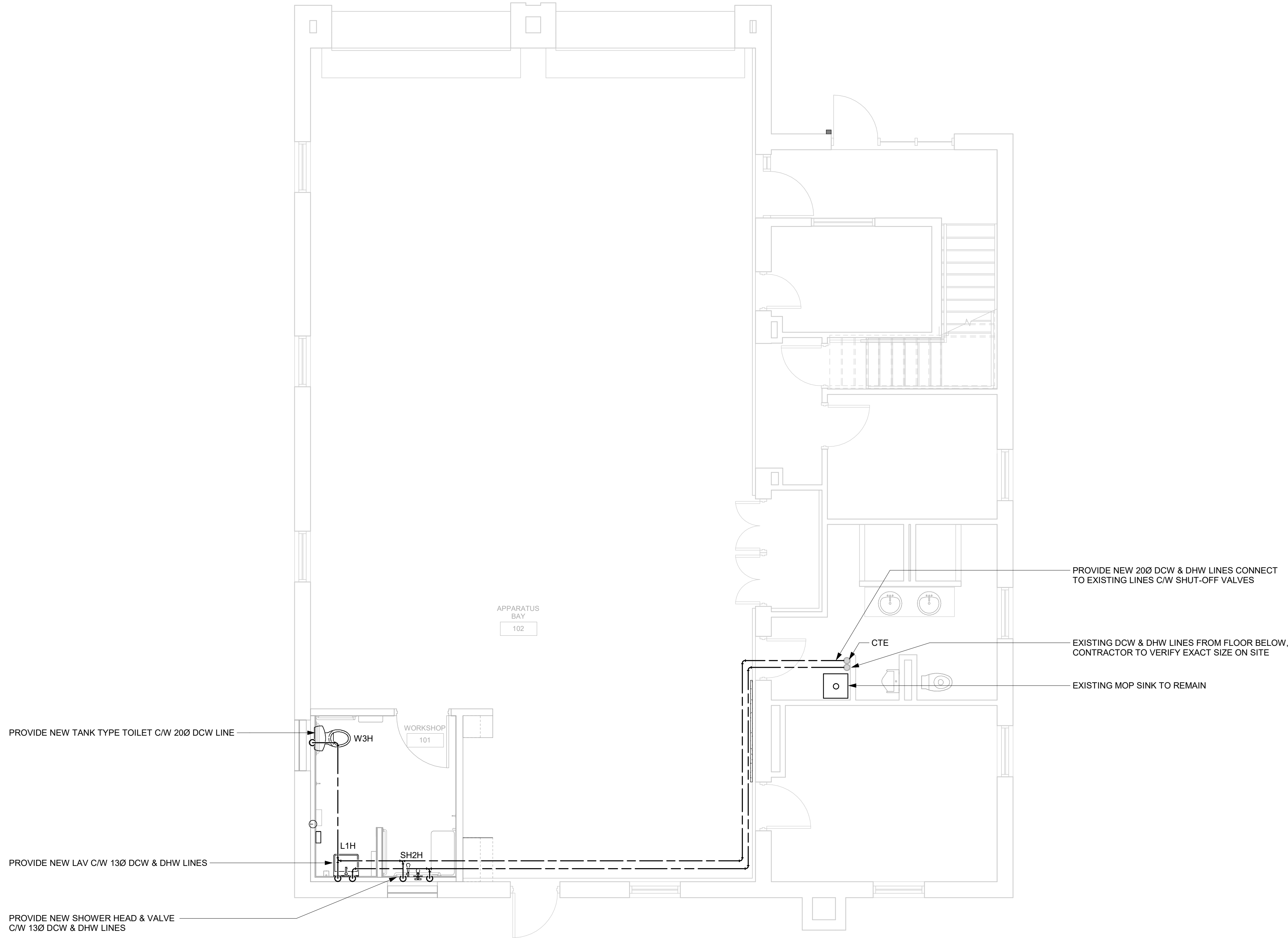
PROJECT ADDRESS
**Fire Hall No.123
143 Bond Avenue**

PROJECT NO: Arcadis 30279056	
DRAWN BY: K. DURUKAN	CHECKED BY: B. LIAO
PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. LIU

SHEET TITLE
**DEMOLITION PLAN -
GROUND FLOOR**

SHEET NUMBER G05-059-M1101	ISSUE D
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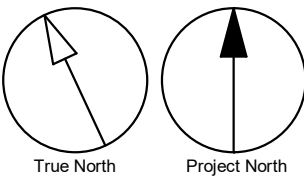


1
M2101

GROUND FLOOR - PLUMBING

Scale: 1 : 50

- GENERAL NOTES:
- REFER TO SPECIFICATIONS FOR PLUMBING FIXTURE UNIT TYPES.
 - ALL NEW FIXTURES TO BE FITTED WITH ISOLATION VALVES.



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PROJECT TITLE
CITY OF TORONTO
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

Fire Hall No.123
143 Bond Avenue

PROJECT NO:
Arcadis 30279056

DRAWN BY:
K. DURUKAN

CHECKED BY:
B. LIAO

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
S. LIU

SHEET TITLE
PLUMBING - GROUND
FLOOR

SHEET NUMBER

G05-059-M2101

ISSUE

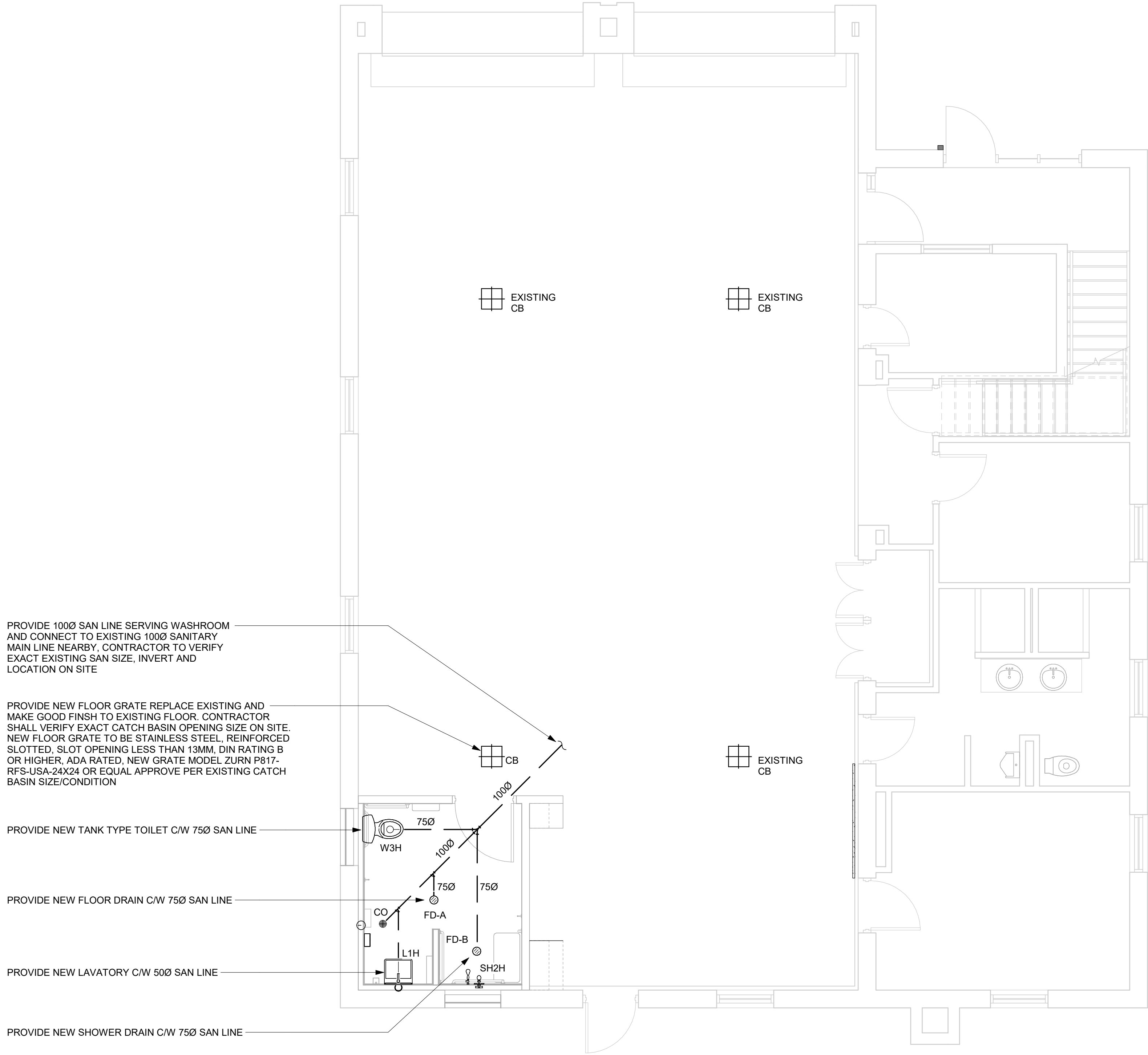
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10mm

SCALE CHECK
1 m

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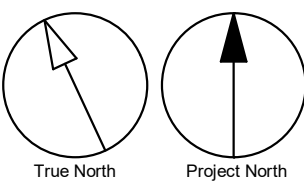


1
M3101

GROUND FLOOR - DRAINAGE

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.



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PROJECT ADDRESS

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143 Bond Avenue**

PROJECT NO: Arcadis 30279056	
DRAWN BY: K. DURUKAN	CHECKED BY: B. LIAO
PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. LIU

SHEET TITLE

**DRAINAGE - GROUND
FLOOR**

SHEET NUMBER	ISSUE
G05-059-M3101	D

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EXISTING PEDANT MOUNTED GAS-FIRED UNIT
HEATER TO REMAIN

EXISTING FLUE PIPE AT HIGH LEVEL TO
EXTERIOR TO REMAIN

PROVIDE 500X250 DOOR GRILLE

EXISTING ELEC DUCT HEATER TO REMAIN

EXISTING INLINE FAN TO REMAIN

EXISTING GARAGE MAKEUP AIR SYSTEM WITH
SUPPLY FAN, ELEC DUCT HEATER, MOTORIZED
INTAKE DAMPER AND DUCTWORK TO REMAIN.
RE-INSTALL HANGING SUPPORT TO SUIT
PROPOSED BULKHEAD, PROVIDE NEW ACCESS
PANEL AT FAN SECTION AND DAMPER
ACTUATOR LOCATIONS. REFER TO ARCH DWG
FOR NEW WASHROOM CEILING FINISH

EXISTING INTAKE DAMPER /
LOUVER TO REMAIN

EXISTING ACTUATOR TO REMAIN

PROVIDE NEW CEILING EXHAUST FAN
CONTROLLED BY LIGHTING SWITCH

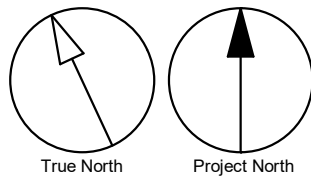
PROVIDE 1500 EXHAUST DUCT THROUGHT EXTERIOR
WALL C/W WIREMESH, BACKDRAFT DAMPER AND
WEATHER HOOD

1
M5101

GROUND FLOOR - HVAC

Scale: 1 : 50

- GENERAL NOTES:
1. ADD AND ADJUST DUCTS TO FIT NEW DIFFUSERS/GRILLES.
 2. THERMOSTATS TO BE MOUNTED AT 1200mm A.F.F.



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DRAWN BY:
K. DURUKAN

CHECKED BY:
B. LIAO

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
S. LIU

SHEET TITLE
HVAC - GROUND FLOOR

SHEET NUMBER

G05-059-M5101

ISSUE

D

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10mm

SCALE CHECK
1 m

2025-05-07 9:06:04 AM



ELECTRICAL DRAWING LIST	
Sheet Number	Sheet Name
E0000	DRAWING LIST
E1101	ELECTRICAL DEMOLITION PLAN 1ST FLOOR
E2101	POWER & SYSTEMS PLAN 1ST FLOOR

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PROJECT NO:
Arcadis 30279056

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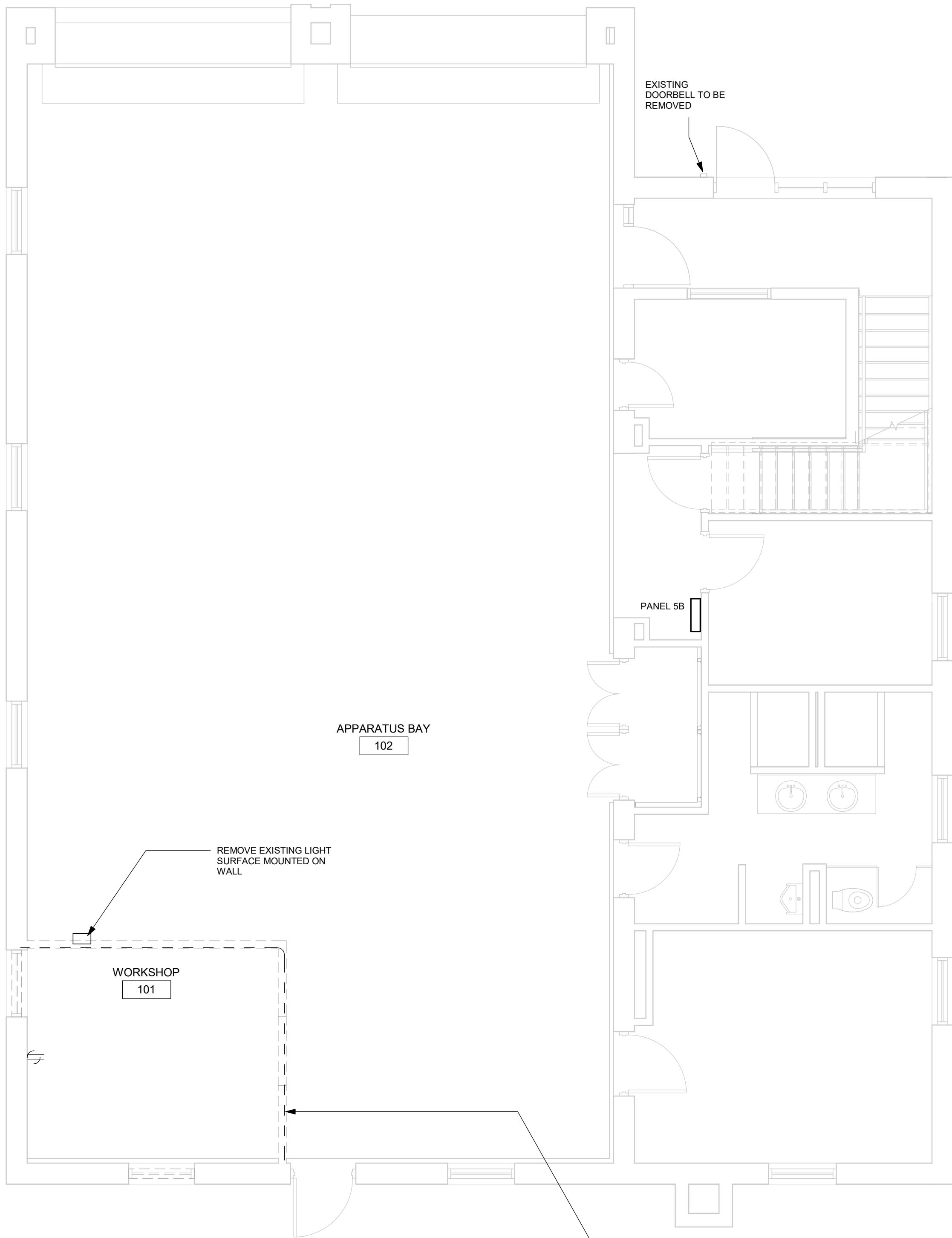
PROJECT MGR: F. BOLOURIAN	APPROVED BY: P. WILLIAMS
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SHEET TITLE
DRAWING LIST

SHEET NUMBER G05-059-E0000	ISSUE E
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10mm
1 m
SCALE CHECK



1 POWER AND SYSTEMS DEMOLITION PLAN 1ST FLOOR
E1101 Scale: 1 : 50

EXISTING CONDUIT ON
TOP OF PARTITION,
REMOVE AND REROUTE TO
RECONNECT LOADS

EXISTING
DOORBELL TO BE
REMOVED

APPARATUS BAY
102

WORKSHOP
101

REMOVE EXISTING LIGHT
SURFACE MOUNTED ON
WALL

2025-05-07 9:06:05 AM

Scale 1:100



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E	TENDER	2025-04-11

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Arcadis 30279056

DRAWN BY:
M.BOJIC

CHECKED BY:
P. WILLIAMS

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
P. WILLIAMS

SHEET TITLE

**ELECTRICAL
DEMOLITION PLAN 1ST
FLOOR**

SHEET NUMBER

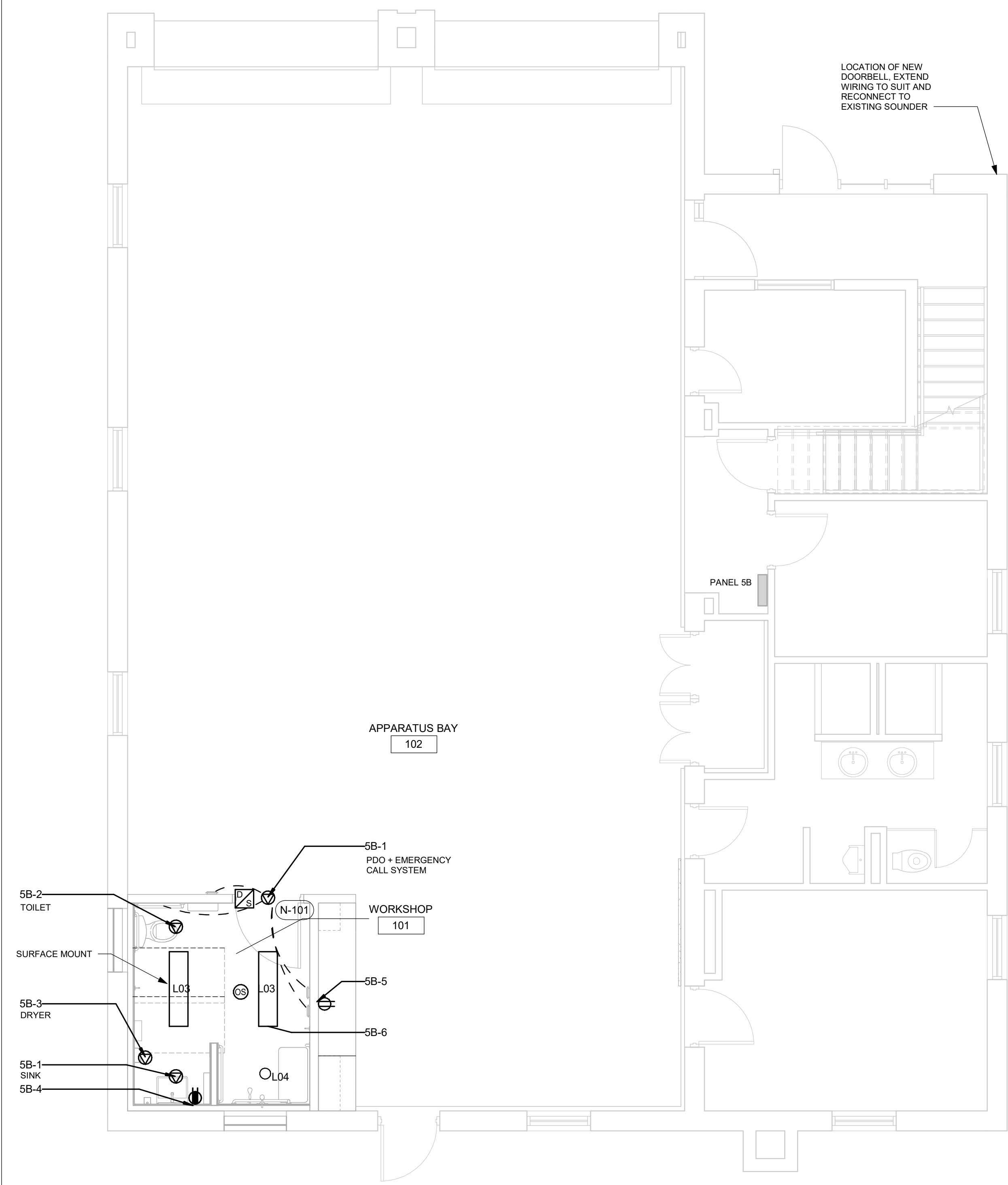
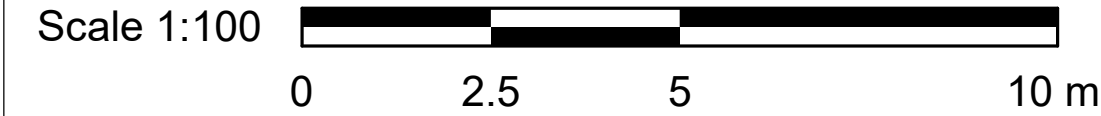
G05-059-E1101

ISSUE

E

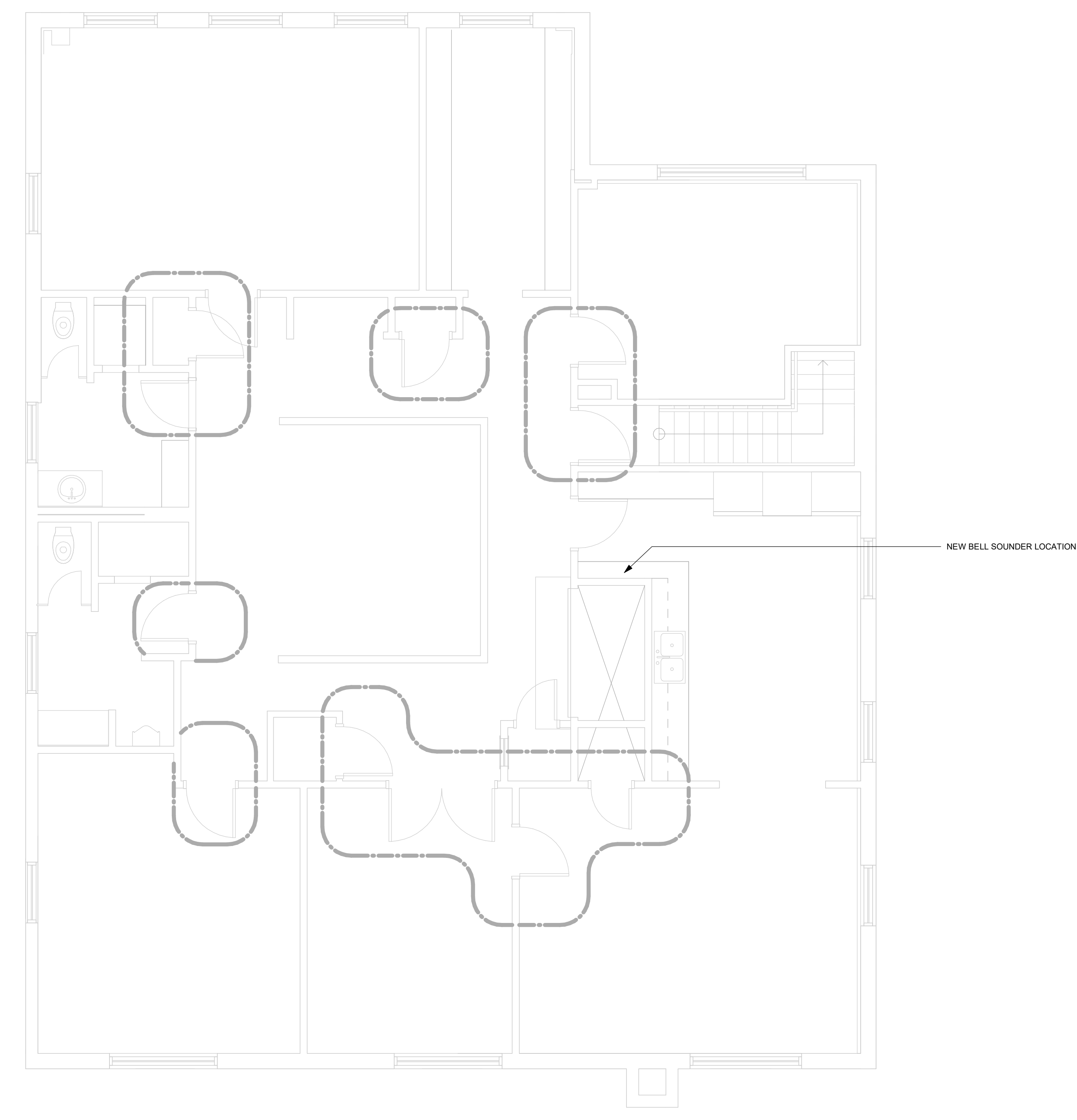
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2025-05-07 9:06:05 AM



1 POWER & SYSTEMS PLAN 1ST FLOOR
E2101 Scale: 1 : 50

- NOTES:
- CIRCUITING SHOWN IS FOR GROUPING PURPOSES ONLY. PROVIDE 15A BREAKER IN EXISTING PANEL AS SPACE ALLOWS.
 - PROVIDE ALL ROUGH IN/CONDUIT FOR DOOR OPERATOR DEVICES/WASHROOM EMERGENCY CALL SYSTEM. REFER TO DRAWING D4001 DETAIL 1 FOR WASHROOM SYSTEM SCHEMATIC. REFER TO ARCHITECTUTURAL PLANS/ELEVATIONS FOR EXACT LOCATIONS OF BUTTONS/DEVICES



2 SECOND FLOOR
E2101 Scale: 1 : 50

- NOTES:
- PROVIDE NEW DOOR BELL SYSTEM. SOUNDER LOCATION AS INDICATED ON WALL ON SECOND FLOOR. BUTTON AS INDICATED ON 1ST FLOOR EXTERIOR WALL. BELL SYSTEM TO BE A WAREHOUSE BELL STYLE, WITH TRADITIONAL LOW VOLTAGE BELL AND BUTTON C/W LOW VOLTAGE TRANSFORMER AND CABLING.

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F. BOLOURIAN

APPROVED BY:
P. WILLIAMS

SHEET TITLE
**POWER & SYSTEMS
PLAN 1ST FLOOR**

SHEET NUMBER

G05-059-E2101

ISSUE

E

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10mm

SCALE CHECK
1 m