

Lower Hillside Washroom Building Improvements

1873 BLOOR ST W
TORONTO, ON M6R 2Z3
TENDER
AUGUST 7, 2024

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STRUCTURAL ENGINEERING

ENGINEERING LINK INC.
375 University Ave Suite 901,
Toronto, ON M5G 2J5

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MECHANICAL ENGINEERING

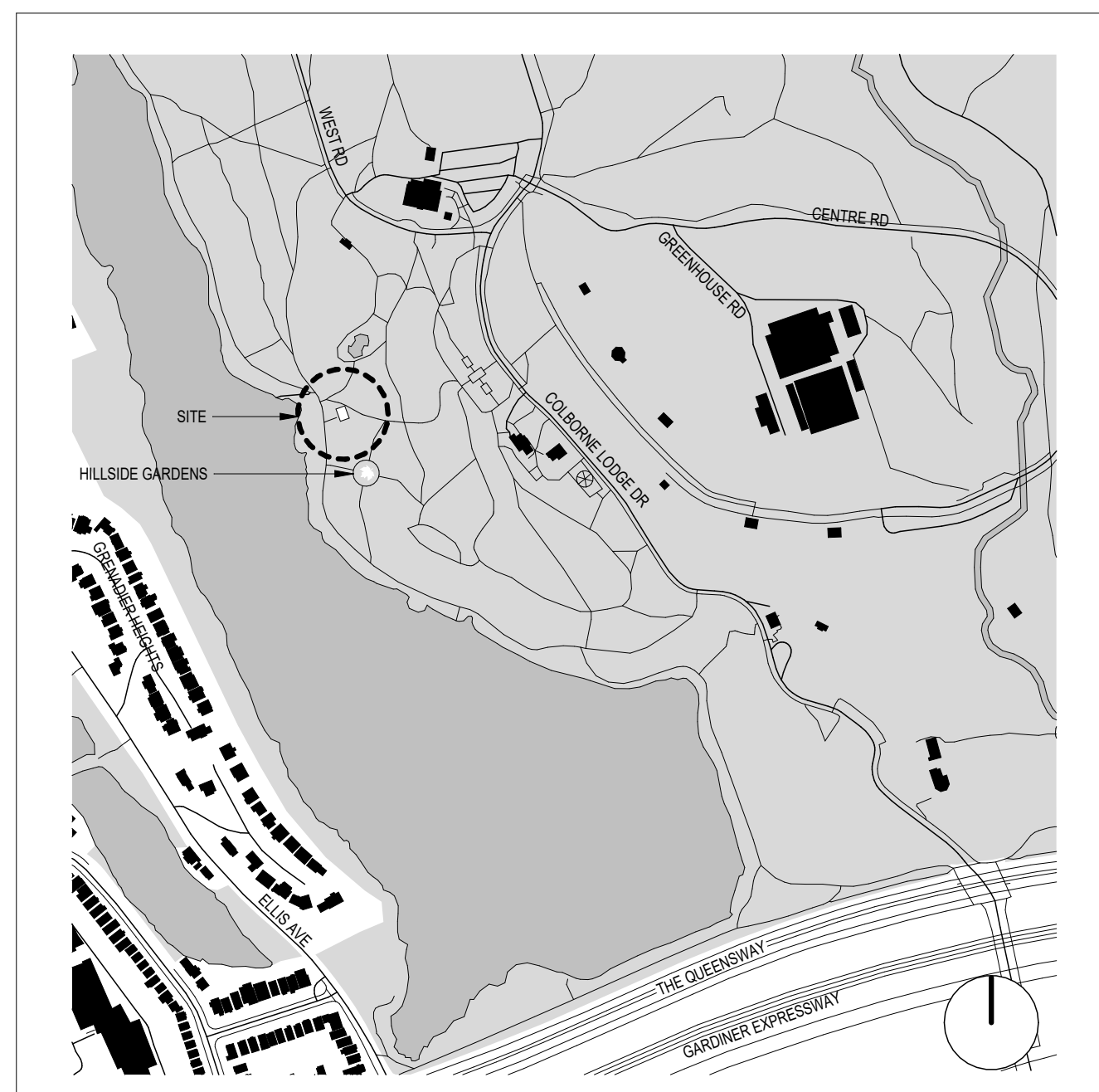
SMITH + ANDERSEN
100 Sheppard Ave East
North York, ON M2N 6N5

TM-0.0	MECHANICAL DRAWING LIST AND LEGENDS
TM-0.1	MECHANICAL STANDARD DETAILS
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ELECTRICAL ENGINEERING

SMITH + ANDERSEN
100 Sheppard Ave East
North York, ON M2N 6N5

TE-0.1	DRAWING LIST AND LEGENDS
TE-0.2	ELECTRICAL DETAILS
TE-0.3	ELECTRICAL DETAILS
TE-1.1	GROUND FLOOR ELECTRICAL LAYOUT
TE-1.2	GROUND FLOOR ELECTRICAL DEMOLITION LAYOUT



NAME OF PRACTICE :	LAPTISTE ARCHITECTURE INC.
CERTIFICATE OF PRACTICE NUMBER:	6114
1137A QUEEN STREET EAST TORONTO, ONTARIO M4M 1K9 (437) 916-9272	
NAME OF PROJECT:	LOWER HILLSIDE WASHROOM BUILDING IMPROVEMENTS
LOCATION:	HIGH PARK, 1873 BLOOR STREET WEST
DATE:	JUNE 12, 2024
Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building	
OBC Reference	
11.00 Building Code Version:	O. Reg. 332/12 Last Amendment: 390/23
11.01 Project Type:	<input type="checkbox"/> Addition <input type="checkbox"/> Renovation <input checked="" type="checkbox"/> Addition and Renovation [A] 1.1.2
Description Washroom building expansion and winterization.	
11.02 Major Occupancy Classification:	Occupancy Group A Div. 2 Use Washroom facility 3.1.2.1(1)
11.03 Superimposed Major Occupancies:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 3.2.2.7
Description	
11.04 Building Area (m ²):	Description LEVEL 1 Existing 30m ² New 46m ² Total 76m ² [A] 1.4.1.2.
11.05 Building Height:	1 Stores above grade 4.13m Above Grade [A] 1.4.1.2 & 3.2.1.1 0 Storey below grade
11.06 Number of streets/ fire fighter access:	1 street(s) 3.2.2.10 & 3.2.5
11.07 Building Size:	<input checked="" type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large <input type="checkbox"/> > Large T.11.2.1.1.C.
11.08 Existing Building Classification:	Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy) 11.2.1, 11.2.1.1A, 11.2.1.1B to N, 4.2.1(3) & 5.2.2.1(2)
Construction Index: _____	
Hazard Index: _____	
Importance Category: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster	
11.09 Renovation Type:	<input type="checkbox"/> Basic Renovation <input checked="" type="checkbox"/> Extensive Renovation 11.3.3.1 & 11.3.3.2
11.10 Occupant Load:	Floor Level/ Area Occupancy Type Based On Occupant Load Ground Floor Assembly 3.1.17.1. N/A 3.1.17
11.11 Plumbing Fixture Requirements:	Ratio: Male/Female = 50:50 Except as noted otherwise 3.7.4 / 9.31 Floor Level/ Area Occupant Load Based On Fixtures Req. Fixtures Provided Ground Floor N/A N/A N/A 6
All washrooms are gender neutral. Washrooms are servicing a park, no defined interior or exterior occupant load.	
11.12 Barrier-free Design:	<input checked="" type="checkbox"/> Yes 11.3.3.2(2)
11.13 Reduction in Performance Level:	Structural <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.1 By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.2 By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.3 Plumbing <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.4 Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.5 Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.6 Extension of Combustible Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.7
11.14 Compensating Construction:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 11.4.2.1 Structural <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.2 By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.3 By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.4 Plumbing <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.5 Sewage - system: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes 11.4.2.6 Extension of Combustible Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.4.2.7
11.15 Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 11.5.1.
11.16 Notes:	BUILDING CLASSIFICATION: 3.2.2.29 COMBUSTIBLE CONSTRUCTION PERMITTED

Lower Hillside Washroom Building
Improvements
City of Toronto
1873 BLOOR ST W
TORONTO, ON M6R 2Z3

2222	No.	Date	Description
1		2024-02-09	Issued for Permit/Tender
2		2024-09-12	Issued for Permit/Tender

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COVER PAGE

<p>ROOF TYPE SCHEDULE</p> <p>R1 - SLOPED ROOF - STANDING SEAM METAL ROOFING (NEW) - ROOF MEMBRANE (NEW) - VENTED ROOF STRUCTURE (EXISTING) - R90 - BATT INSULATION (NEW) - AIR/VAPOUR BARRIER MEMBRANE (NEW) - ROOF DECKING (EXISTING)</p> <p>R1A - ALT - SLOPED ROOF ALTERNATE - SHINGLES (NEW) - ROOF UNDERLAYMENT (NEW) - ROOF MEMBRANE (NEW) - VENTED ROOF STRUCTURE (EXISTING) - R90 - BATT INSULATION (NEW) - AIR/VAPOUR BARRIER MEMBRANE (NEW) - ROOF DECKING (EXISTING)</p>	<p>FLOOR TYPE SCHEDULE</p> <p>F1 - SLAB ON GRADE - FLOOR FINISH (REFER TO FLOOR FINISH DRAWINGS) - 100mm CONCRETE SLAB (REFER TO STRUCTURAL DRAWINGS) - POLYETHYLENE MEMBRANE - 100mm RIGID INSULATION (R12 MIN) - CLEAR STONE CAPILLARY MOISTURE BARRIER (CONFIRM WITH GEOTECHNICAL REPORT) - 200mm GRANULAR FILL (CONFIRM WITH GEOTECHNICAL REPORT) - REFER TO GEOTECHNICAL REPORT FOR SUB-BASE/SLAB COMPOSITION</p>	<p>WALL TYPES SCHEDULE</p> <p>W1 - 12mm CEMENT FIBRE CLADDING ON - MANUFACTURER SUPPLIED SUPPORTS (NEW) - 25mm VERTICAL METAL Z GIRT / 25mm AIR SPACE (NEW) - 150mm HORIZONTAL NONCONDUCTIVE CLADDING SUPPORT SYSTEM / 150mm SEMI RIGID INSULATION (NEW) - VAPOUR BARRIER (NEW) - 190mm CMU (WALL TYPE P1B OR P2B) REFER TO DRAWINGS</p> <p>W2 - 12mm CEMENT FIBRE CLADDING ON - MANUFACTURER SUPPLIED SUPPORTS (NEW) - 25mm VERTICAL METAL Z GIRT / 25mm AIR SPACE - ADDITIONAL FRAMING TO SUIT AT BUILDING CORNERS (NEW) - 150mm HORIZONTAL NONCONDUCTIVE CLADDING SUPPORT SYSTEM / 150mm SEMI RIGID INSULATION (NEW) - VAPOUR BARRIER (NEW) - ON EXISTING WALL</p> <p>W3 - EXISTING WALL INFILL - 12mm SHEATHING (NEW) - 90mm STEEL STUD LAYER FILLED WITH INSULATION (NEW) * ONE OR TWO ROWS DEPENDING ON THE DEPTH OF THE REQUIRED INFILL - 15.8mm MOISTURE AND IMPACT RESISTANT GYPSUM WALL BOARD (NEW)</p> <p>EW1 - EXISTING EXTERIOR WALL - 2x4" STUD LAYER FILLED WITH INSULATION (EXISTING) - 25mm AIR SPACE (EXISTING) - VAPOUR BARRIER (EXISTING) - 100mm BLOCK (EXISTING)</p>	<p>PARTITION TYPES SCHEDULE</p> <p>BLOCK DIMENSIONS ARE (D x H x L)</p> <p>P1 CMU-1 140 mm x 90 mm x 390 mm CONCRETE BLOCK TO U/S OF DECK P1a 190 mm x 190 mm x 390 mm CONCRETE BLOCK TO U/S OF DECK</p> <p>P2 CMU-2 140 mm x 190 mm x 390 mm CONCRETE BLOCK TO U/S OF DECK P2a 190 mm x 190 mm x 390 mm CONCRETE BLOCK TO U/S OF DECK</p>	<p>SOFFIT TYPES SCHEDULE</p> <p>S1 METAL SOFFIT ON FRAMING AS REQUIRED (SEE DETAILS) COORDINATE WITH ELECTRICAL FOR LIGHTING LOCATIONS</p> <p>CEILING TYPES SCHEDULE</p> <p>C1 15mm MOISTURE AND IMPACT RESISTANT GYPSUM BOARD (NEW) ON FRAMING AS REQUIRED (SEE DETAILS) COORDINATE WITH ELECTRICAL FOR LIGHTING LOCATIONS</p> <p>C2 2 LAYERS OF 15mm TYPE X GYPSUM BOARD (NEW) ON FRAMING AS REQUIRED (SEE DETAILS) DO NOT PENETRATE CEILING MEMBRANE 1 HOUR FIRE RESISTANCE RATING CBC SB-2 TABLE 2.3.12.</p>
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DOOR NO.	ROOM NAME	WIDTH		HEIGHT	THICKNESS	DOOR		FRAME		FIRE RATING	MATERIAL	TYPE	FINISH	FROM ROOM	TO ROOM	HARDWARE GROUP	BF OPERATOR	COMMENTS
		BASE	FIN			MAT'L	FIN	MAT'L	FIN									
101	WASHROOM	965	2150	50	HM	A	PT		PS	1	PT			101	100	1		
102	WASHROOM	965	2150	50	HM	A	PT		PS	1	PT			102	100	1		
103	WASHROOM	965	2150	50	HM	A	PT		PS	1	PT			103	100	1		
104	WASHROOM	965	2150	50	HM	A	PT		PS	1	PT			104	100	1		
105	WASHROOM	965	2150	50	HM	A	PT		PS	1	PT			105	100	1		
106	WASHROOM A	1000	2150	50	HM	A	PT		PS	1	PT			106	100	2	Yes	
107	EQUIPMENT ROOM	965	2150	50	HM	A	PT		PS	1	PT			107	EXT	3		
108	EQUIPMENT ROOM	914	2134	51	EX	A	PT	1 HR	EX		PT			107	108	4		DOOR AND FRAME TO REMAIN WITH NEW HARDWARE.
109	STORAGE ROOM	965	2150	50	HM	A	PT		HM	1	PT			109	EXT	3		

INTERIOR FINISHES LEGEND
REFER TO SPECIFICATIONS, FOR PRODUCT INFORMATION.

<p>FLOOR FINISHES</p> <p>FLOOR TILE: EPX EPOXY FLOORING SC SEALED CONCRETE FLOORING</p> <p>FLOOR/WALL BASE: B-1 INTEGRAL EPOXY BASE B-2 RUBBER BASE REFER TO SPECIFICATIONS. B-3 TILE BASE TO MATCH WT-1</p> <p>CEILING FINISHES C1 15mm GYPSUM BOARD ON STEEL STUD FRAMING PAINTED PT-1</p>	<p>WALL FINISHES</p> <p>ARCHITECTURAL CONCRETE BLOCK: CMU-1 MANUFACTURER: BRAMPTON BRICK SERIES: PROFILE COLOUR: ICELAND WHITE FINISH: SLUICE SIZE: AS SHOWN ON WALL TYPE BOND: STACKED</p> <p>STANDARD CONCRETE BLOCK: CMU-2 MANUFACTURER: BRAMPTON BRICK SERIES: CoreClear Block SIZE: AS SHOWN ON WALL TYPE BOND: RUNNING</p> <p>WALL TILE: WT-1 MANUFACTURER: STONETILE SERIES: JOINT COLOUR: TERRACOTTA FINISH: MATTE SIZE: 7x28x1cm</p>	<p>PAINT: PT-1 FIELD COLOUR NO.: SW 7004 COLOUR NAME: SNOWBOUND MANUFACTURER: SHERWIN WILLIAMS</p> <p>PT-2 DOORS/FRAMES (WHITE ACCENT) COLOUR NO.: SW 9542 COLOUR NAME: NATURAL WHITE MANUFACTURER: SHERWIN WILLIAMS</p> <p>PT-3 DOORS/FRAMES (RED ACCENT) COLOUR NO.: SW 6613 COLOUR NAME: LEI FLOWER MANUFACTURER: SHERWIN WILLIAMS</p> <p>1. PROVIDE PAINT PT-1 TO ALL WALLS UNLESS NOTED OTHERWISE. 2. ALL WALLS AFFECTED BY THIS WORK ARE TO RECEIVE PAINT AND B-2 BASE, UNLESS NOTED OTHERWISE.</p>
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ROOM FINISH SCHEDULE - PAGE 1

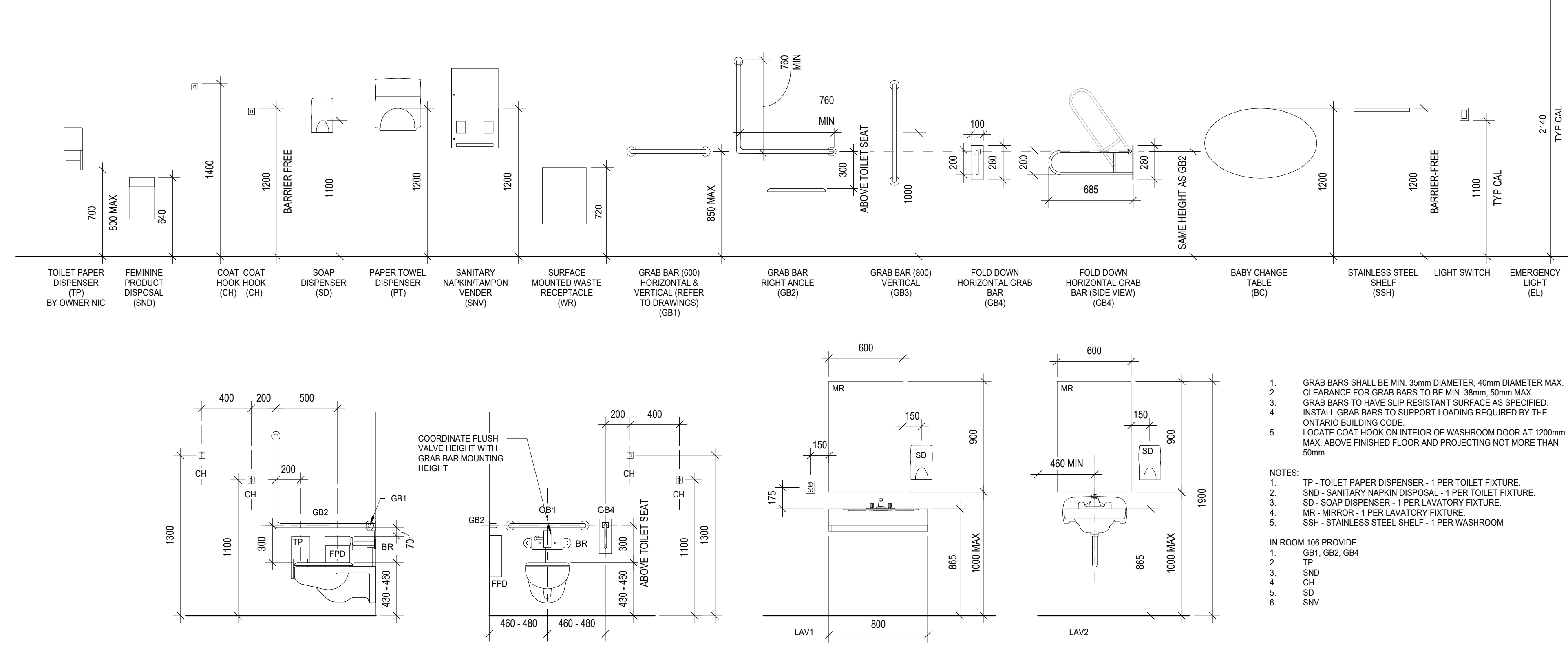
NUMBER	ROOM NAME	FLOOR		NORTH		EAST		SOUTH		WEST		CEILING		COMMENTS
		FIN	BASE	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	
101	WASHROOM	EPX	B1	CMU-1		CMU-1		CMU-1		CMU-1		GWB	PT-1	
102	WASHROOM	EPX	B1	CMU-1		CMU-1		CMU-1		CMU-1		GWB	PT-1	
103	WASHROOM	EPX	B1	CMU-1		CMU-1		CMU-1		CMU-1		GWB	PT-1	
104	WASHROOM	EPX	B1	CMU-1		CMU-1		CMU-1		CMU-1		GWB	PT-1	
105	WASHROOM	EPX	B1	CMU-1		CMU-1		CMU-1		CMU-1		GWB	PT-1	
106	WASHROOM A	EPX	B1	EX CMU-2	WT1	EX	WT1	CMU-2	WT1	CMU-2	WT1	WT-1	WT-1 ON ALL WALLS	
107	EQUIPMENT ROOM	SC	B2	EX CMU-2		EX CMU-2		EX CMU-2		EX CMU-2		GWB	PT-1	
108	SERVICE ROOM A	SC	B2	EX		EX		EX		EX		EX	EXISTING FINISHES TO REMAIN	
109	STORAGE ROOM	SC	B2	EX		CMU-2		EX		EX		GWB	PT-1	

ACCESSORY LEGEND

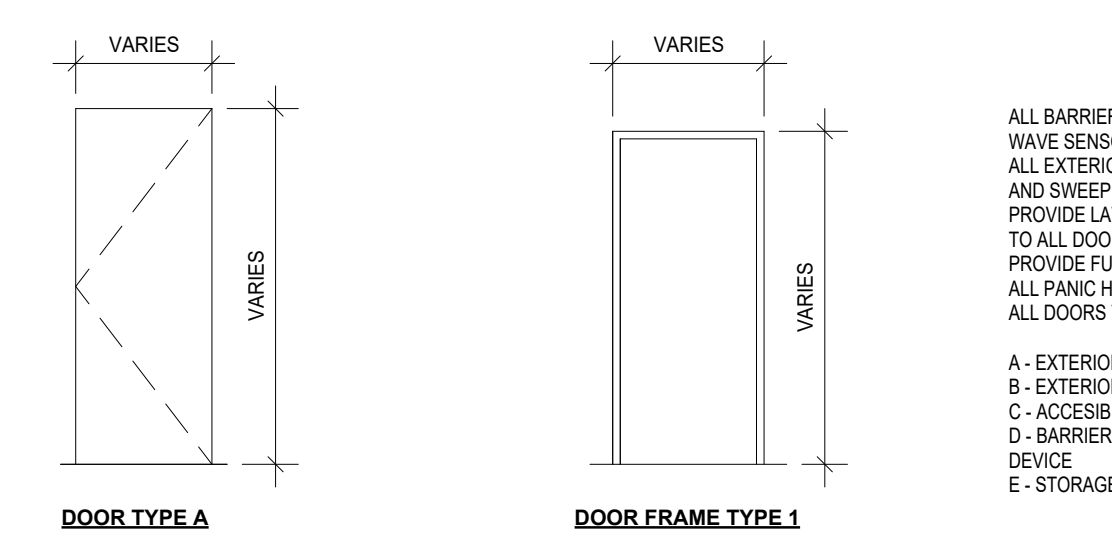
BC	BABY CHANGE TABLE
EL	EMERGENCY LIGHT
GB1	90 DEG BARRIER FREE GRAB BAR
GB2	HORIZONTAL GRAB BAR
GB3	URINAL GRAB BAR
GB4	FOLD DOWN GRAB BAR
HD1	HAND DRYER
MR	MIRROR (600mm x 900mm)
MH	MOP HOLDER
PDO	POWER DOOR OPERATOR
PT	PAPER TOWEL DISPENSER
CH	ROBE HOOK
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDING MACHINE
TP	TOILET PAPER DISPENSER
WR	TRASH RECEPTACLE

THERMAL TRANSMITTANCE OF BUILDING ASSEMBLIES - TABLE SB 5.5-5-2017

DEGREE DAYS BELOW 18°C CLIMATE ZONE	3520	5
ASSEMBLY	MAX. ASSEMBLY U VALUE (W/m²K)	MIN. INSULATION R-VALUE (ft²·°F·hr/Btu)
ABOVE GROUND OPAQUE WALLS (Mass)	0.307	R17.0 ci
ABOVE GROUND OPAQUE WALLS (Steel Framed)	0.281	R13.0 + R12.0 ci
OPAQUE ROOFS (Insulation above deck)	0.164	R35.0 ci
OPAQUE ROOFS (Attic and Other)	0.019	R60
UNHEATED SLAB-ON-GRADE FLOORS	F-0.810	R15 for 48in.
HEATED SLAB-ON-GRADE FLOORS	F-1.072	R10
OPAQUE DOOR	2.56	
VERTICAL FENESTRATION - FIXED	2.15	
VERTICAL FENESTRATION - ENTRANCE DOOR	3.94	



DOOR TYPES LEGEND DOOR FRAME LEGEND



ALL BARRIER FREE DOOR OPERATORS TO BE TOUCHLESS WAVE SENSORS
ALL EXTERIOR DOORS TO FEATURE WEATHER STRIPPING AND SWEEP AND TO BE INSULATED
PROVIDE LATCHES, PUSH PLATES, CLOSERS AND LEVERS TO ALL DOORS
PROVIDE FULL DOOR WIDTH KICK PLATES TO ALL DOORS
ALL PANIC HARDWARE TO BE SURFACE MOUNTED
ALL DOORS TO HAVE WALL MOUNTED DOOR STOPS

A - EXTERIOR KEY LOCK AND INTERIOR LEVER
B - EXTERIOR KEY LOCK AND INTERIOR PANIC DEVICE
C - ACCESSIBLE LEVER HANDLE WITH DEADBOLT
D - BARRIER FREE DOOR OPERATOR WITH WAVE TO OPEN DEVICE
E - STORAGE ROOM DEADBOLT

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LEGENDS, SCHEDULES, GENERAL NOTES

DOOR HARDWARE TYPES
REFER TO SPECIFICATIONS
NOTE:
PROVIDE LATCHES, PUSH PLATES, CLOSERS AND LEVERS TO ALL DOORS
PROVIDE WEATHER STRIP AND SWEEP TO ALL EXTERIOR DOORS
PROVIDE ELECTROMAGNETIC LOCK TO HARDWARE TYPES AS PER THE HARDWARE SCHEDULE.

DOOR THRESHOLD TYPES
A - CT65
B - CT75
C - CT410

DEMOLITION & NEW CONSTRUCTION LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- NEW WALL

NEW CONSTRUCTION NOTES:

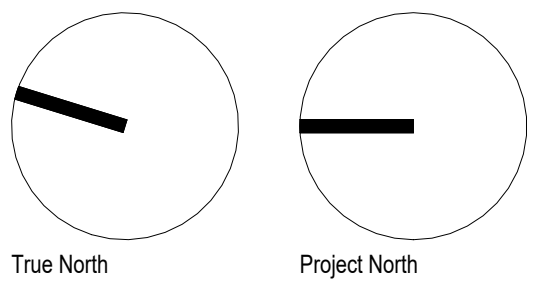
1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
3. DIMENSIONS ARE TO FACE OF GYPSUM NOT FINISH FACE.

SITE INFORMATION:

SITE INFORMATION:
ADDRESS: 1873 BLOOR STREET WEST
ZONING: R (4.5.01.0) (R635)
LEGAL DESCRIPTION: PART OF LOTS 83 & 84. PLAN M434.

BUILDING STATISTICS (METRES):

	EXISTING	PROPOSED	ALLOWED
BUILDING HEIGHT:	n/a	NO CHANGE	n/a
ESTABLISHED GRADE:	4.13m	4.13m (or "No Change")	
BUILDING HEIGHT:			
GROSS FLOOR AREA:			
GROUND FLOOR:	30m ²	46m ²	N/A
TOTAL GFA:	76m ²	76m ²	



Lower Hillside Washroom Building Improvements

City of Toronto
1873 BLOOR ST W
TORONTO, ON M6R 2Z3

2222

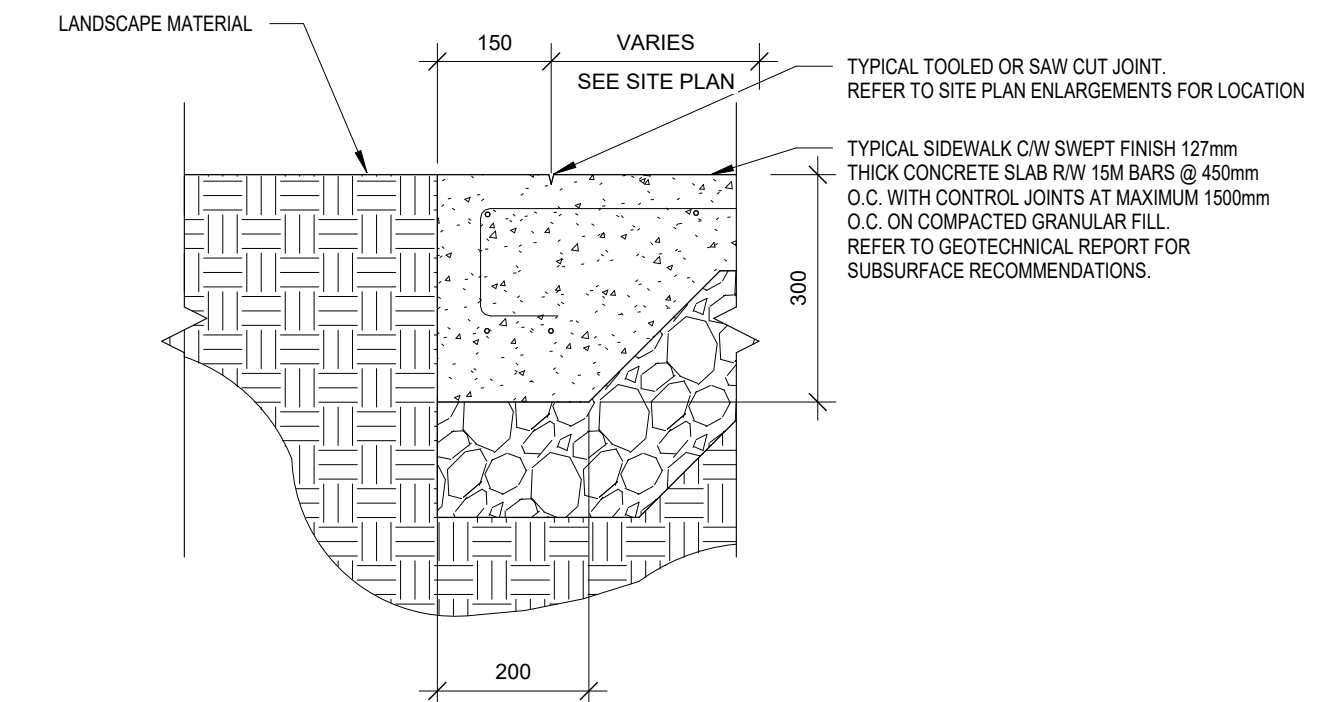
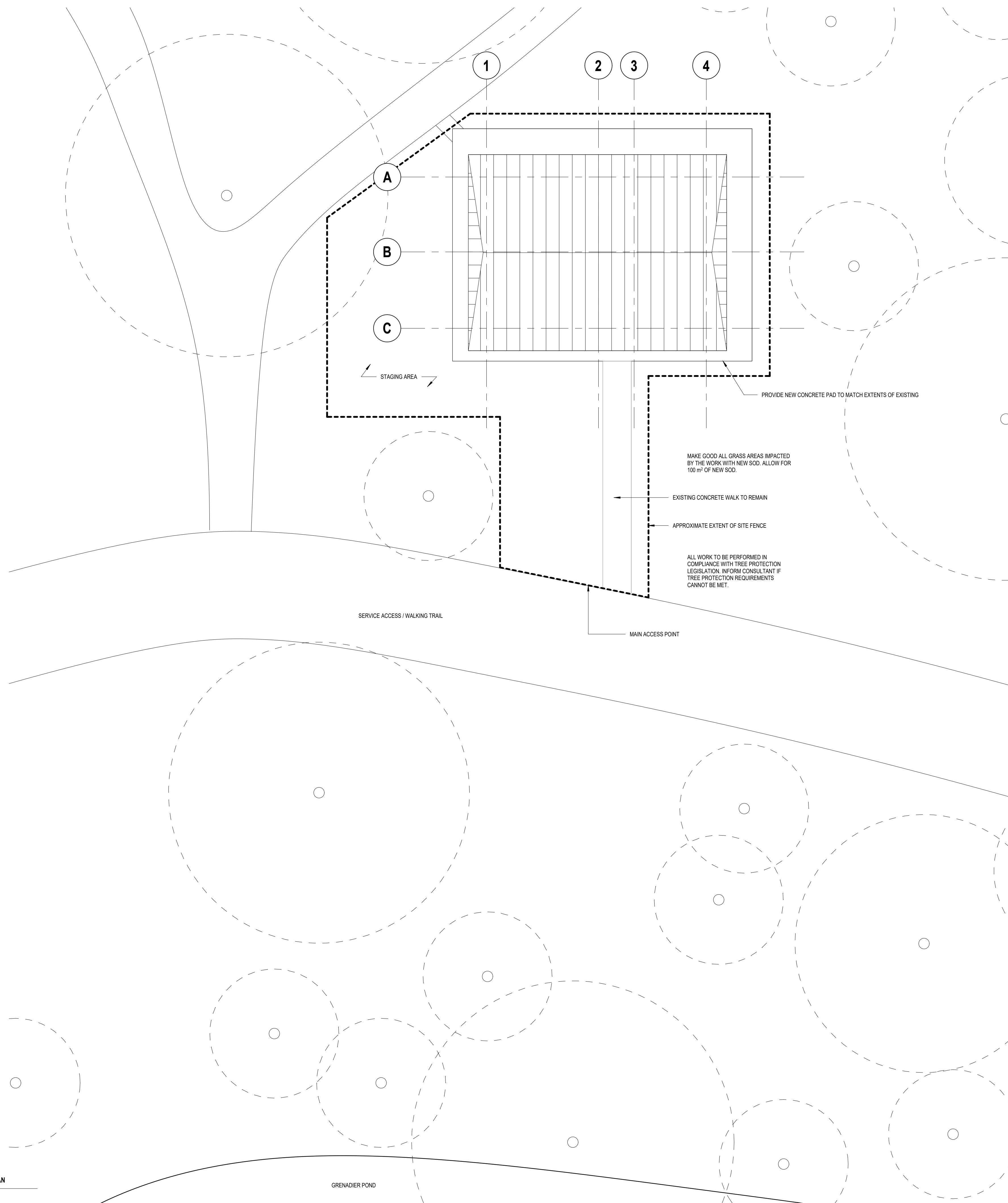
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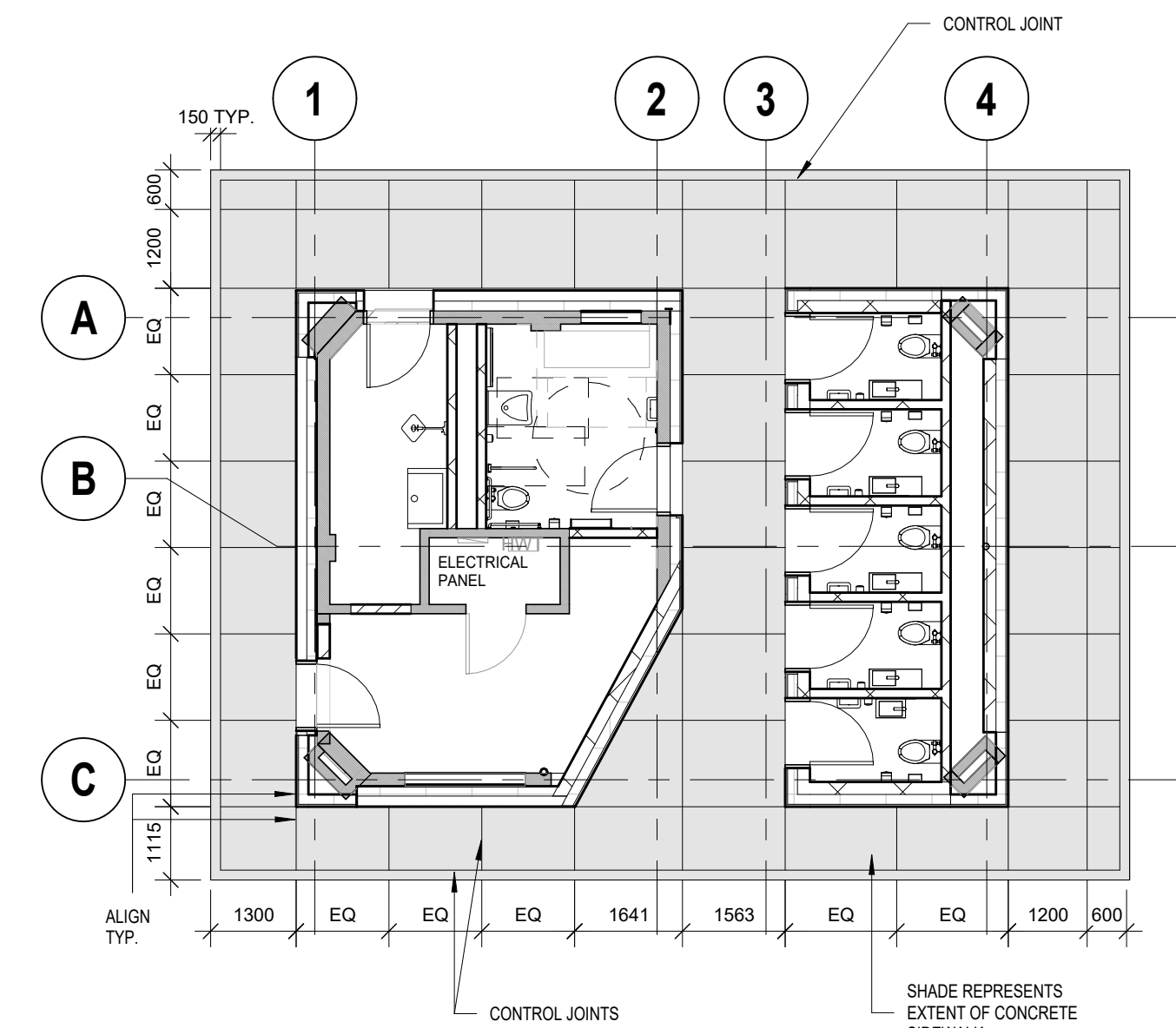
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SITE PLAN

A100




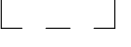
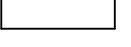
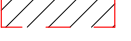
2 SITE - SIDEWALK DETAIL
A100 1:10



3 SITE FINISHES
A100 1:100

1 SITE PLAN
A100 1:100

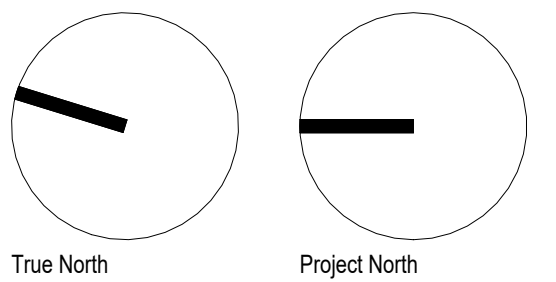
DEMOLITION LEGEND

-  EXISTING WALL TO REMAIN
-  EXISTING WALL TO BE DEMOLISHED
-  NEW WALL
-  EXISTING SLAB TO BE DEMOLISHED

DEMOLITION NOTES

1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
3. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE OR PART THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND IS TO REPAIR/REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
4. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
5. ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
6. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
7. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.
8. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.
9. REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING. SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE LEVELING OF SLABS.
10. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
11. MAINTAIN EXISTING FIRE SUPPRESSION SYSTEMS AND EQUIPMENT.
12. MAINTAIN FIRE SEPARATIONS AND FIRE RATINGS. MAKE GOOD ANY DAMAGE TO CEILING CEMENTITIOUS FIRE SPRAY.
13. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
14. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
15. CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
16. PROVIDE OPENING FOR NEW 750mm X 750mm ACCESS PANEL IN EXISTING GYPSUM BOARD CEILING OF JANITOR ROOM (ROOM 124). COORDINATE LOCATION WITH ELECTRICAL DRAWINGS.
17. CONTRACTOR TO VACUUM EXISTING RANGE HOOD DUCTWORK PRIOR TO DEMOLITION.

Demolition Keynote	
Key Value	Keynote Text
D01	DEMOLISH EXISTING WALL TO EXTENTS SHOWN. MAKE GOOD INTERFACE WITH REMAINING WALLS.
D02	DEMOLISH CONCRETE SLAB TO EXTENTS SHOWN BY HATCH. PATCH, REPAIR AND MAKE GOOD EXISTING FLOOR SLAB FOR INSTALLATION OF NEW FLOOR FINISHES.
D03	REMOVE EXISTING DOOR AND FRAME.
D12	REMOVE EXISTING TOILETS, URINALS AND SINKS. TYPICAL.
D14	REMOVE EXISTING GLAZING TO FACE OF SHEATHING. MAKE GOOD EXISTING SHEATHING. TYPICAL.
D15	REMOVE EXISTING GLASS BLOCK.
D16	REMOVE EXISTING ROOFING AND PREPARE FOR NEW.
D17	DEMOLISH PORTION OF EAVE TO EXTENT INDICATED ON DRAWINGS. MAKE GOOD EAVE TO PREPARE FOR NEW S/OFFT. REFER TO DETAIL DRAWINGS.



Lower Hillside Washroom Building Improvements

City of Toronto
1873 BLOOR ST W
TORONTO, ON M6R 2Z3

2222

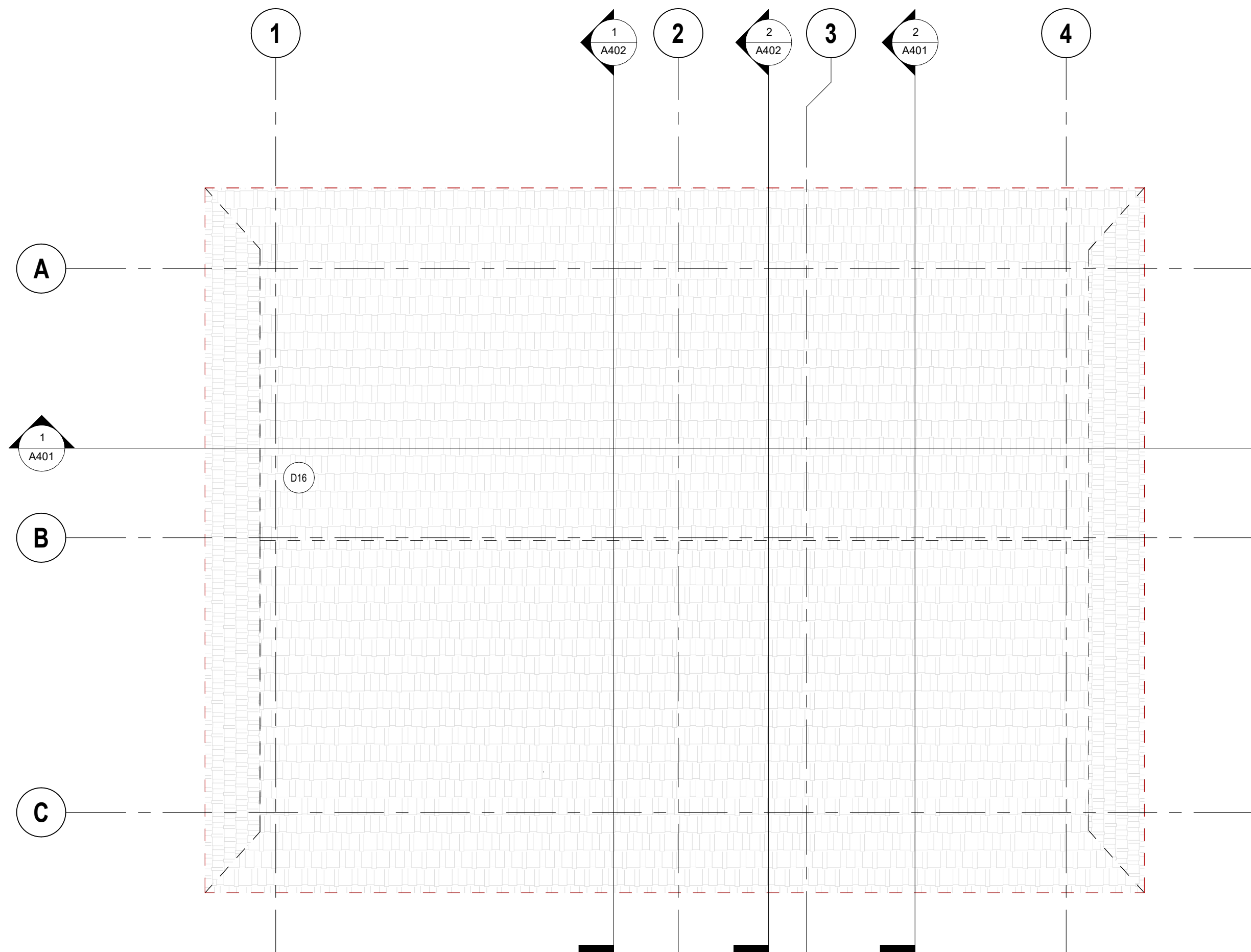
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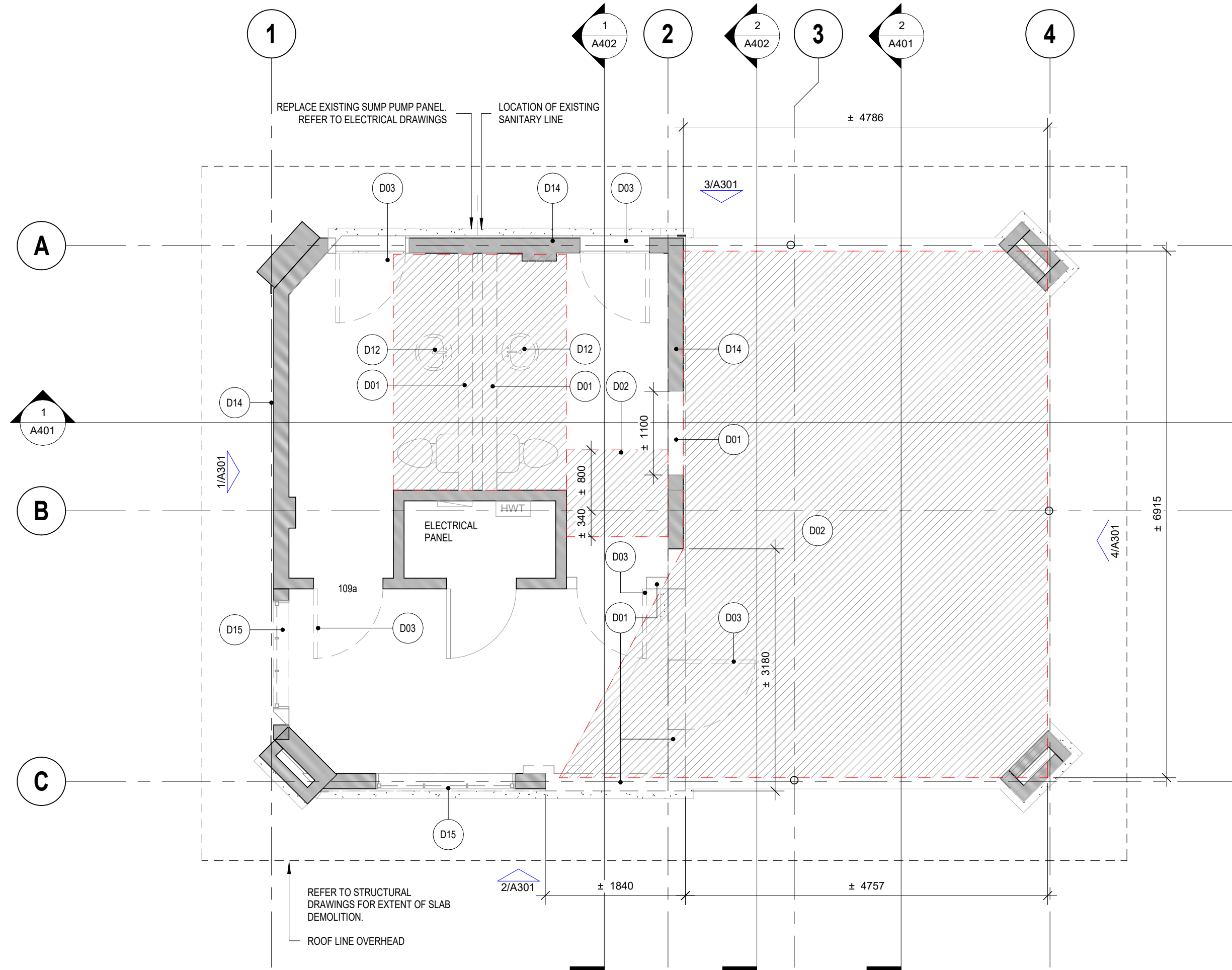
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Checked: SL
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LEVEL 1 - DEMOLITION PLAN

A201



2 ROOF PLAN - DEMOLITION
A201 1:50



1 LEVEL 1 - FLOOR PLAN - DEMOLITION
A201 1:50



3 EXISTING EXTERIOR VIEW
A201 1:10

EXTERIOR LIGHT FIXTURES TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS.
STEEL COLUMNS TO REMAIN. MAKE GOOD FOR NEW PAINT.
PUMP EQUIPMENT TO BE RELOCATED TO BUILDING INTERIOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.

FLOOR PLAN NOTATION LEGEND

- 101A DOOR NUMBER - SEE DOOR FRAME AND DOOR TYPE SCHEDULE AND SPECIFICATIONS
- FD FLOOR DRAIN
- 750 BARRIER FREE TURNING RADIUS
- 1 HR 1 HR 1 HOUR FIRE RATING
- FE FIRE EXTINGUISHER REFER TO MECHANICAL DRAWINGS

GENERAL NOTES:

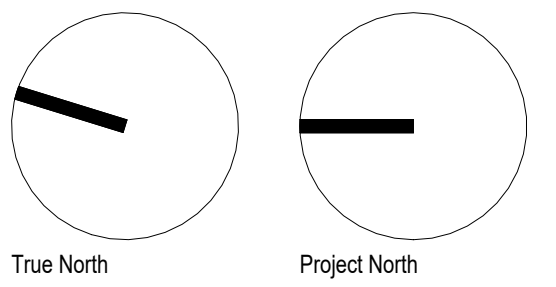
- REFER TO DRAWING A010 FOR DOOR AND FRAME TYPES.
- REFER TO DRAWING A010 FOR CONSTRUCTION TYPES, PARTITION TYPES AND SYMBOLS.
- REFER TO DRAWING A010 FOR ROOM FINISH SCHEDULE.
- REFER TO DRAWING A010 FOR FIXTURE MOUNTING HEIGHTS.
- PUSH BUTTON OPENER. REFER TO DOOR SCHEDULE.
- HELP CALL BUTTON. REFER TO ELECTRICAL DRAWINGS.
- HB - HOSE BIBB. REFER TO MECHANICAL DRAWINGS.

ACCESSORY LEGEND

- BC BABY CHANGE TABLE
- EL EMERGENCY LIGHT
- GB1 90 DEG BARRIER FREE GRAB BAR
- GB2 HORIZONTAL GRAB BAR
- GB3 URINAL GRAB BAR
- GB4 FOLD DOWN GRAB BAR
- HD1 HAND DRYER
- MIR MIRROR (600mm x 900mm)
- MH MOP HOLDER
- PDO POWER DOOR OPERATOR
- PT PAPER TOWEL DISPENSER
- CH ROBE HOOK
- SD SOAP DISPENSER
- SND SANITARY NAPKIN DISPOSAL
- SNV SANITARY NAPKIN VENDING MACHINE
- TP TOILET PAPER DISPENSER
- WR TRASH RECEPTACLE

GENERAL CONSTRUCTION NOTES

- ENSURE CONTINUITY OF AIR/VAPOUR BARRIER THROUGHOUT BUILDING IS MAINTAINED
- CONTRACTOR TO INCLUDE COSTS FOR COORDINATION WITH TELECOMMUNICATION SYSTEM, FIRE ALARM, BAS AND FIRE WATCH. DIMENSIONS ARE TO:
 - A. FACE OF SHEATHING AT EXTERIOR WALLS
 - B. FACE OF GYPSUM BOARD AT INTERIOR WALLS
 - C. FACE OF CONCRETE BLOCK
- WINDOW DIMENSIONS ARE TO WINDOW ROUGH OPENINGS. COORDINATE WINDOW SIZES & ROUGH OPENING REQUIREMENTS WITH WINDOW SUPPLIER
- GYPSUM BOARD OUTSIDE CORNER BEADS ARE TO BE 90 DEGREE CORNERS AND ALL GYPSUM BOARD SURFACES THAT TERMINATE TO DISSIMILAR MATERIALS, ARE TO HAVE CONTINUOUS MILLCORE EDGING HORIZONTALLY OR VERTICALLY.
- WHERE TWO WALL TYPES ARE "COMMON" TO ONE WALL - CONTRACTOR TO COORDINATE CONSTRUCTION, FINISHES, AND FIRE RATINGS AS REQUIRED TO PROVIDE CONTINUITY OF FIRE RATED WALLS
- FIRE OR SOUND RATED WALL ASSEMBLIES LOCATED ABOVE SUSPENDED CEILING SHALL HAVE GYPSUM BOARD JOINTS FIRE TAPED
- STEEL STUD INSTALLER TO PROVIDE CROSS BRACING AT ALL INTERIOR WALLS AND BULKHEADS AS REQUIRED. CROSS BRACING TO BE INSTALLED ABOVE CEILING HEIGHT AND SECURED TO STRUCTURE. ALL BRACING OR CROSS BRACING TO BE SPACED AT 1200mm O.C. MAXIMUM.
- INSULATE ANY STUD SPACE CONTAINING MECHANICAL PIPING IF THE SPACE IS OTHERWISE NOT INSULATED (EVEN IF PIPING ITSELF IS INSULATED).
- PROVIDE ACCESS FOR DRAINAGE AND R.W.L. CLEAN OUTS AS REQUIRED
- CONTRACTOR TO ENSURE THAT EXIT SIGNS SHALL CONSIST OF A GREEN PICTOGRAM AND WHITE GRAPHIC SYMBOL. MEETING THE VISIBILITY SPECIFICATIONS REFERRED TO IN ISO 3864-1 AND CONFORM TO THE DIMENSIONS INDICATED IN ISO 7010.
- CONTRACTOR TO ALLOW FOR EMERGENCY LIGHTS WHICH SHALL BE PROVIDED ALONG PATHS OF EGRESS AS PER CBC 3.2.7. EMERGENCY LIGHTING SHALL ALWAYS BE MAINTAINED TO AN AVERAGE LEVEL OF ILLUMINATION OF AT LEAST 10 LX AT FLOOR LEVEL.
- MAINTAIN EXISTING FIRE ALARM SYSTEM. CONTRACTOR TO ENSURE THAT NEW FIRE ALARM COMPONENTS ARE COMPATIBLE WITH THE EXISTING DEVICES.
- ROOFING CONTRACTOR TO PROVIDE SEAM MOUNTED, BAR-TYPE SNOW GUARDS FOR ROOFS IDENTIFIED ON ROOF PLANS. SNOW GUARD SYSTEM TO BE ENGINEERED BY MANUFACTURER TO CONFORM TO ONTARIO BUILDING CODE. ENGINEERED LAYOUT OF SNOW GUARD SYSTEMS TO BE PROVIDED WITH SUBMITTALS



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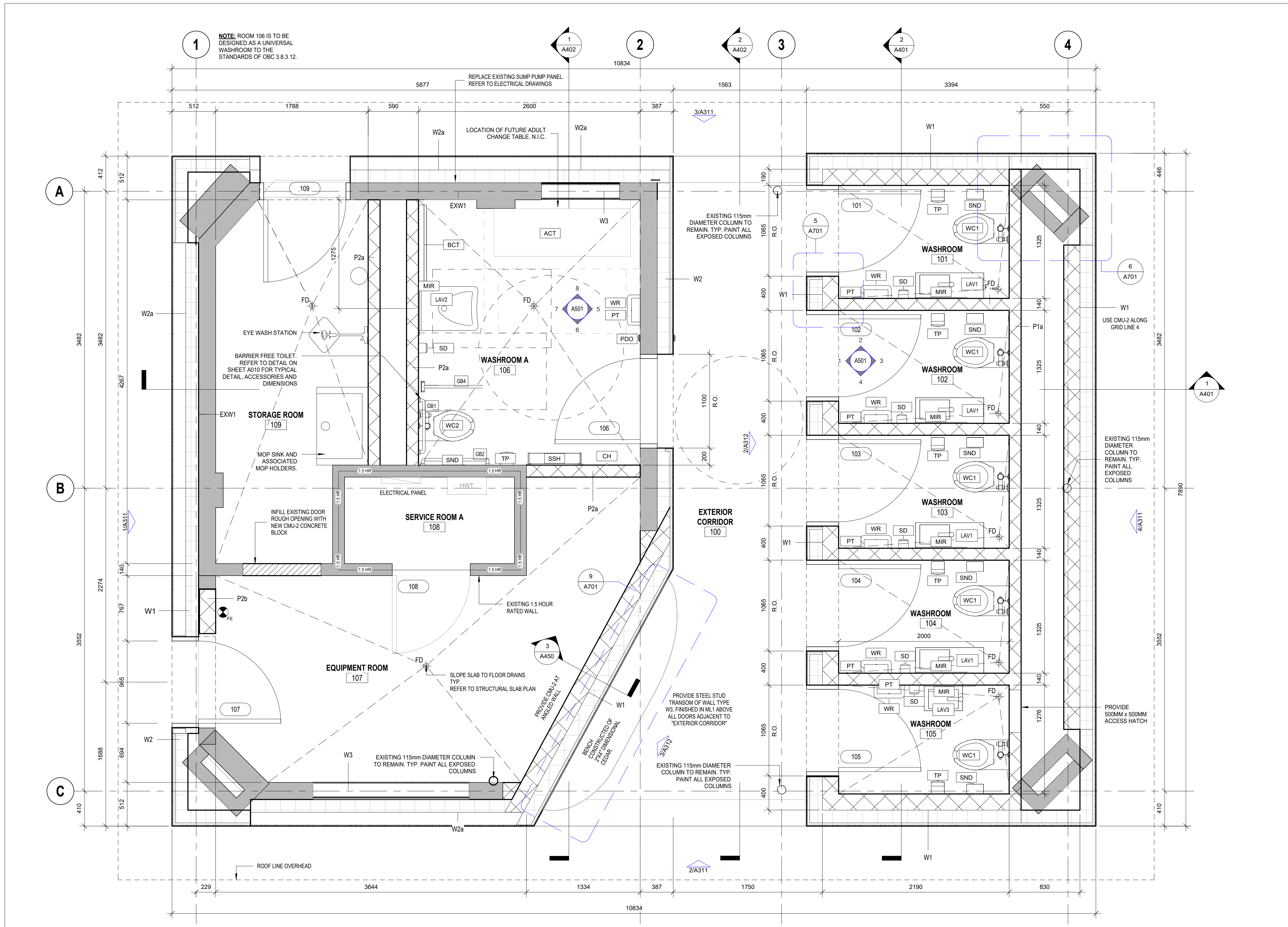
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LEVEL 1 - PROPOSED PLAN

A211



2 LEVEL 1 - FLOOR PLAN - PROPOSED
A211 1:25

ROOF TYPE SCHEDULE

- R1 - SLOPED ROOF**
 - STANDING SEAM METAL ROOFING (NEW)
 - ROOF MEMBRANE (NEW)
 - VENTED ROOF STRUCTURE (EXISTING)
 - R90 - BATT INSULATION (NEW)
 - AIR/VAPOUR BARRIER MEMBRANE (NEW)
 - ROOF DECKING (EXISTING)
- R1A - SLOPED ROOF ALTERNATE**
 - SHINGLES (NEW)
 - ROOF UNDERLAYMENT (NEW)
 - ROOF MEMBRANE (NEW)
 - VENTED ROOF STRUCTURE (EXISTING)
 - R90 - BATT INSULATION (NEW)
 - AIR/VAPOUR BARRIER MEMBRANE (NEW)
 - ROOF DECKING (EXISTING)

FLOOR TYPE SCHEDULE

- F1 - SLAB ON GRADE**
 - FLOOR FINISH (REFER TO FLOOR FINISH DRAWINGS)
 - 100mm CONCRETE SLAB (REFER TO STRUCTURAL DRAWINGS)
 - POLYETHYLENE MEMBRANE
 - 100mm RIGID INSULATION (R12 MIN)
 - CLEAR STONE CAPILARY MOISTURE BARRIER (CONFIRM WITH GEOTECHNICAL REPORT)
 - 200mm GRANULAR FILL (CONFIRM WITH GEOTECHNICAL REPORT)
 - REFER TO GEOTECHNICAL REPORT FOR SUB-BASE BASE COMPOSITION.

WALL TYPES SCHEDULE

- W1**
 - 12mm CEMENT FIBRE CLADDING ON MANUFACTURER SUPPLIED SUPPORTS (NEW)
 - 25mm VERTICAL METAL Z GIRT / 25mm AIR SPACE (NEW)
 - 150mm HORIZONTAL NONCONDUCTIVE CLADDING SUPPORT SYSTEM / 150mm SEMI RIGID INSULATION (NEW)
 - VAPOUR BARRIER (NEW)
 - 190mm CMU (WALL TYPE P1B OR P2B) REFER TO DRAWINGS
- W2**
 - 12mm CEMENT FIBRE CLADDING ON MANUFACTURER SUPPLIED SUPPORTS (NEW)
 - 25mm VERTICAL METAL Z GIRT / 25mm AIR SPACE
 - ADDITIONAL FRAMING TO SUIT AT BUILDING CORNERS (NEW)
 - 150mm HORIZONTAL NONCONDUCTIVE CLADDING SUPPORT SYSTEM / 150mm SEMI RIGID INSULATION (NEW)
 - VAPOUR BARRIER (EXISTING)
 - ON EXISTING WALL
- W3**
 - EXISTING WALL INFILL
 - 12mm SHEATHING (NEW)
 - 90mm STEEL STUD LAYER FILLED WITH INSULATION (NEW) - ONE OR TWO ROWS DEPENDING ON THE DEPTH OF THE REQUIRED INFILL
 - 150mm MOISTURE AND IMPACT RESISTANT GYPSUM WALL BOARD (NEW)
- EXW1**
 - EXISTING EXTERIOR WALL
 - 2x4" STUD LAYER FILLED WITH INSULATION (EXISTING)
 - 25mm AIR SPACE (EXISTING)
 - VAPOUR BARRIER (EXISTING)
 - 100mm BLOCK (EXISTING)

PARTITION TYPES SCHEDULE

- P1**
 - BLOCK DIMENSIONS ARE (D x H x L)
 - CMU-1 140 mm x 90 mm x 390 mm CONCRETE BLOCK TO U/S OF DECK
 - P1a 190 mm x 190 mm x 390 mm CONCRETE BLOCK TO U/S OF DECK
 - P2 140 mm x 190 mm x 390 mm CONCRETE BLOCK TO U/S OF DECK
 - P2a 190 mm x 190 mm x 390 mm CONCRETE BLOCK TO U/S OF DECK

SOFFIT TYPES SCHEDULE

- S1**
 - METAL SOFFIT
 - ON FRAMING AS REQUIRED (SEE DETAILS)
 - COORDINATE WITH ELECTRICAL FOR LIGHTING LOCATIONS

CEILING TYPES SCHEDULE

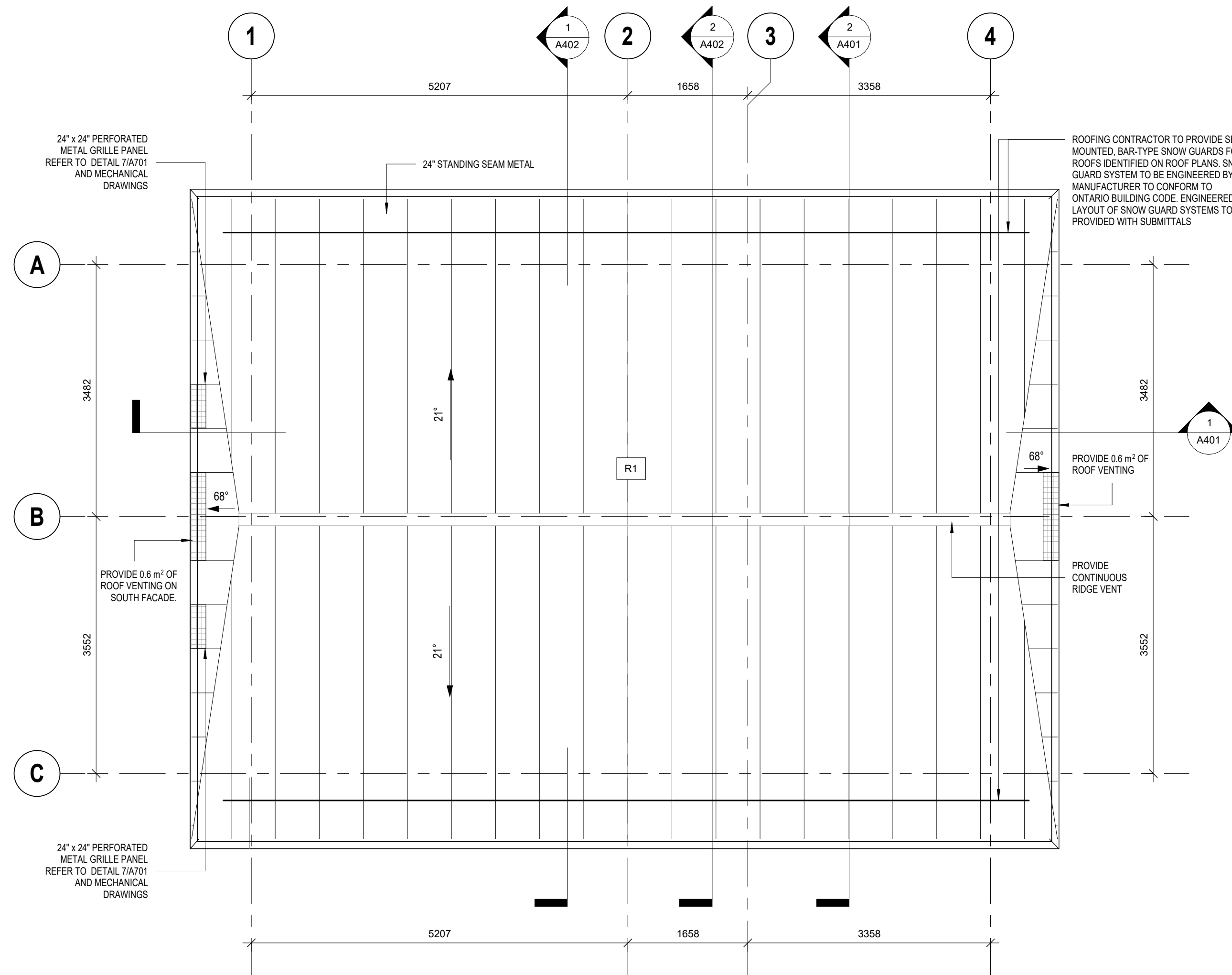
- C1**
 - 16mm MOISTURE AND IMPACT RESISTANT GYPSUM BOARD (NEW)
 - ON FRAMING AS REQUIRED (SEE DETAILS)
 - COORDINATE WITH ELECTRICAL FOR LIGHTING LOCATIONS
- C2**
 - 2 LAYERS OF 16mm TYPE X GYPSUM BOARD (NEW)
 - ON FRAMING AS REQUIRED (SEE DETAILS)
 - DO NOT PENETRATE CEILING MEMBRANE
 - 1 HOUR FIRE RESISTANCE RATING
 - CBC SB-2 TABLE 2.3.12.

Autodesk Docs // 2222 High Park Washroom // 2222 High Park Washroom.rvt

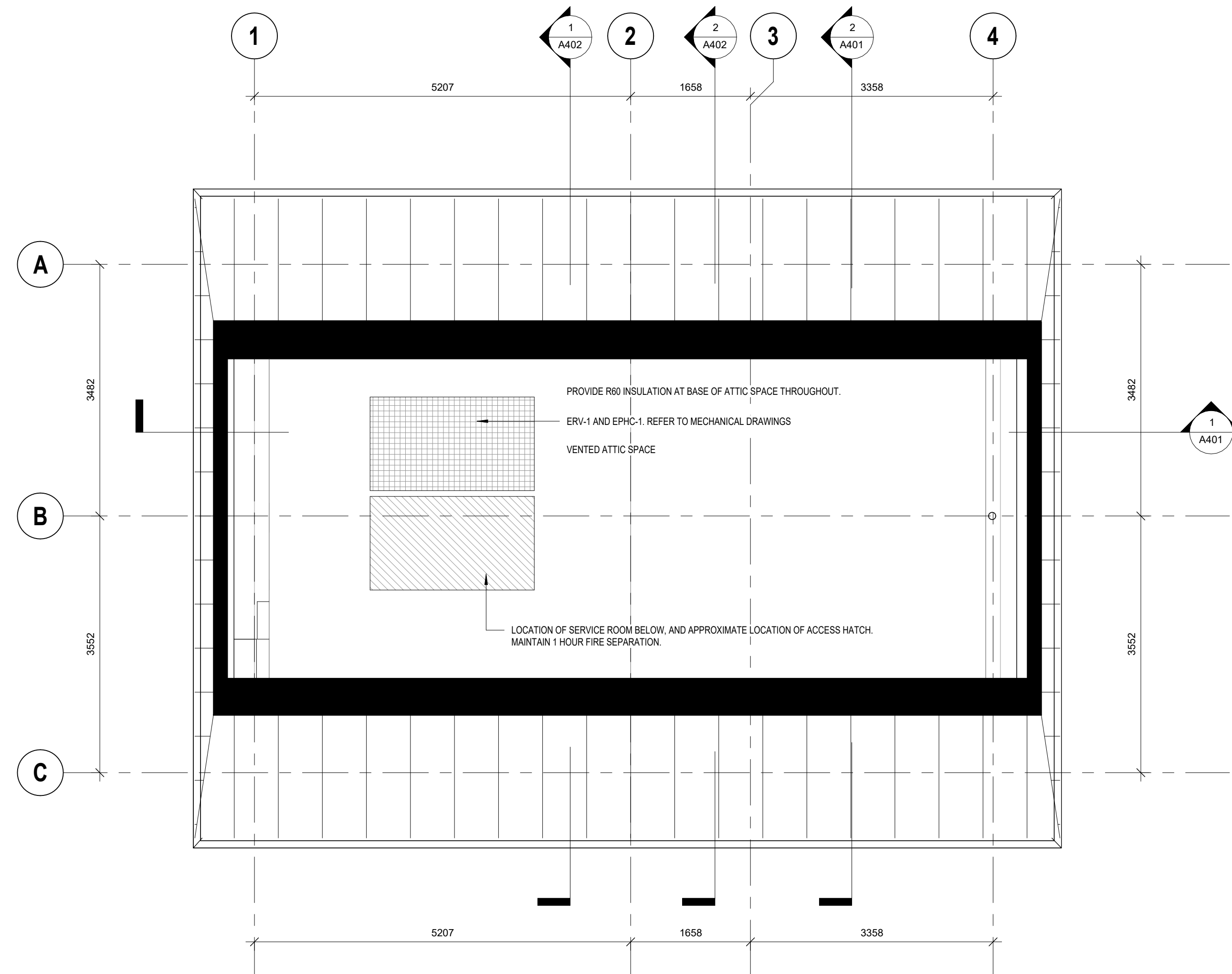
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GENERAL CONSTRUCTION NOTES

1. ENSURE CONTINUITY OF AIR/VAPOUR BARRIER THROUGHOUT BUILDING IS MAINTAINED.
2. CONTRACTOR TO INCLUDE COSTS FOR COORDINATION WITH TELECOMMUNICATION SYSTEM, FIRE ALARM, BAS AND FIRE WATCH.
3. DIMENSIONS ARE TO:
 - A. FACE OF SHEATHING AT EXTERIOR WALLS
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 - C. FACE OF CONCRETE BLOCK
4. WINDOW DIMENSIONS ARE TO WINDOW ROUGH OPENINGS. COORDINATE WINDOW SIZES & ROUGH OPENING REQUIREMENTS WITH WINDOW SUPPLIER.
5. GYPSUM BOARD OUTSIDE CORNER BEADS ARE TO BE 90 DEGREE CORNERS AND ALL GYPSUM BOARD SURFACES THAT TERMINATE TO DISSIMILAR MATERIALS, ARE TO HAVE CONTINUOUS MILLCORE EDGING HORIZONTALLY OR VERTICALLY.
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13. MAINTAIN EXISTING FIRE ALARM SYSTEM. CONTRACTOR TO ENSURE THAT NEW FIRE ALARM COMPONENTS ARE COMPATIBLE WITH THE EXISTING DEVICES.
14. ROOFING CONTRACTOR TO PROVIDE SEAM MOUNTED, BAR-TYPE SNOW GUARDS FOR ROOFS IDENTIFIED ON ROOF PLANS. SNOW GUARD SYSTEM TO BE ENGINEERED BY MANUFACTURER TO CONFORM TO ONTARIO BUILDING CODE. ENGINEERED LAYOUT OF SNOW GUARD SYSTEMS TO BE PROVIDED WITH SUBMITTALS.



1 ROOF - PLAN - PROPOSED
A212 1:50



2 ROOF - PLAN - PROPOSED ATTIC PLAN
A212 1:50

Lower Hillside Washroom Building Improvements
City of Toronto
1873 BLOOR ST W
TORONTO, ON M6R 2Z3

2222

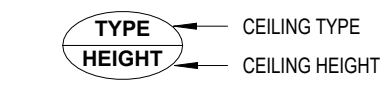
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ROOF - PROPOSED PLAN

CEILING LEGEND

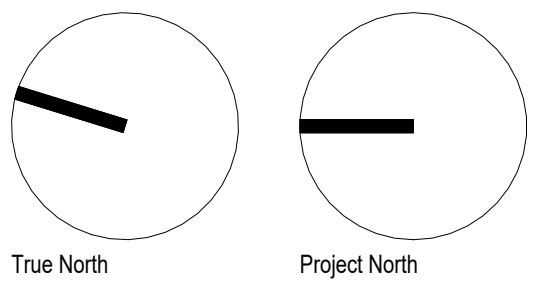


CEILING NOTES

1. CEILING HEIGHTS FOR EXPOSED STRUCTURE NOTED AS UNDERSIDE OF DECK. REFER TO WALL SECTIONS.
2. REFLECTED CEILING PLAN TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL CONSULTANT DRAWINGS.
3. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR FURTHER DUCTING AND LIGHTING INFORMATION.
4. ALL CEILING TYPES SHOWN ARE TO BE READ IN CONJUNCTION WITH THE REFLECTED CEILING PLAN FOR HEIGHTS AND INSTALLATION LOCATIONS.
5. CEILING IN ROOM 108 IS 1 HOUR RATED.

SOFFIT TYPES

TYPE	DESCRIPTION
C1	GWB CEILING
C2	GWB CEILING - 1HR RATED
S1	METAL SOFFIT



Lower Hillside Washroom Building Improvements

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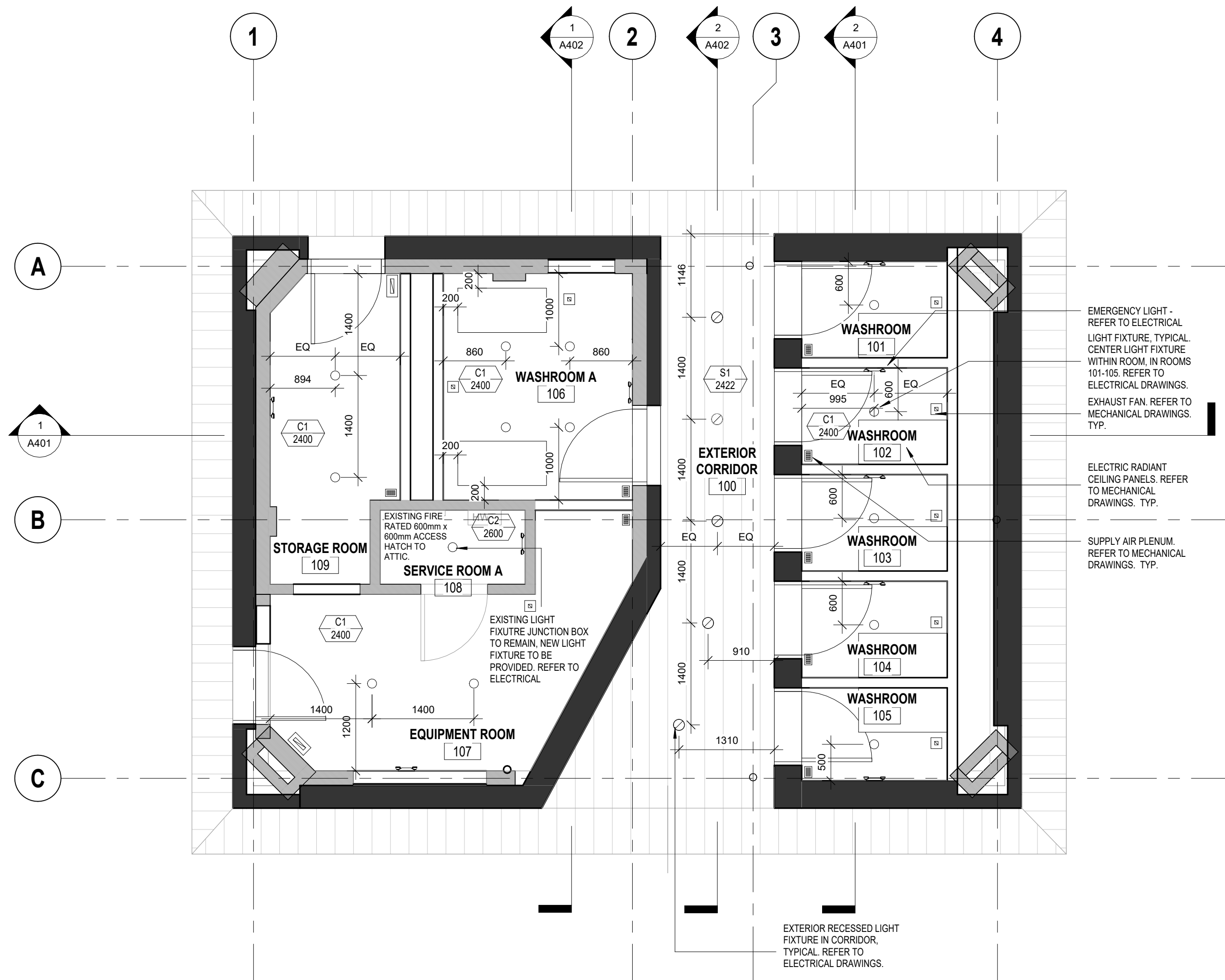
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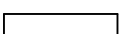
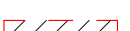
LEVEL 1 - REFLECTED CEILING PLAN
PROPOSED

A221



1 LEVEL 1 REFLECTED CEILING PLAN
A221 1:50

DEMOLITION LEGEND

-  EXISTING WALL TO REMAIN
-  EXISTING WALL TO BE DEMOLISHED
-  NEW WALL
-  EXISTING SLAB TO BE DEMOLISHED

DEMOLITION NOTES

1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
3. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE OR PART THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND IS TO REPAIR/REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
4. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
5. ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
7. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.
8. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.
9. REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE LEVELING OF SLABS.
10. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
11. MAINTAIN EXISTING FIRE SUPPRESSION SYSTEMS AND EQUIPMENT.
12. MAINTAIN FIRE SEPARATIONS AND FIRE RATINGS. MAKE GOOD ANY DAMAGE TO CEILING CEMENTITIOUS FIRE SPRAY.
13. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
14. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
15. CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
16. PROVIDE OPENING FOR NEW 750mm X 750mm ACCESS PANEL IN EXISTING GYPSUM BOARD CEILING OF JANITOR ROOM (ROOM 124). COORDINATE LOCATION WITH ELECTRICAL DRAWINGS.
17. CONTRACTOR TO VACUUM EXISTING RANGE HOOD DUCTWORK PRIOR TO DEMOLITION.

Keynote Legend - elevation Demo	
Key Value	Keynote Text
D01	DEMOLISH EXISTING WALL TO EXTENTS SHOWN. MAKE GOOD INTERFACE WITH REMAINING WALLS.
D03	REMOVE EXISTING DOOR AND FRAME.
D14	REMOVE EXISTING CLADDING TO FACE OF SHEATHING. MAKE GOOD EXISTING SHEATHING, TYPICAL.
D15	REMOVE EXISTING GLASS BLOCK.
D16	REMOVE EXISTING ROOFING AND PREPARE FOR NEW.
D17	DEMOLISH PORTION OF EAVE TO EXTENT INDICATED ON DRAWINGS. MAKE GOOD EAVE TO PREPARE FOR NEW SOFFIT. REFER TO DETAIL DRAWINGS.

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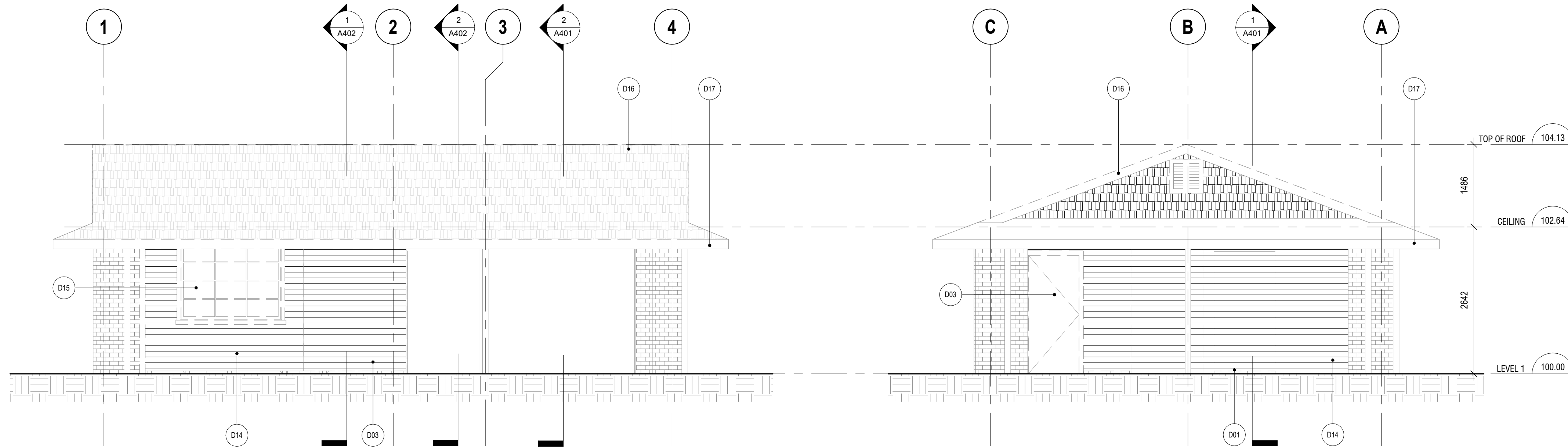
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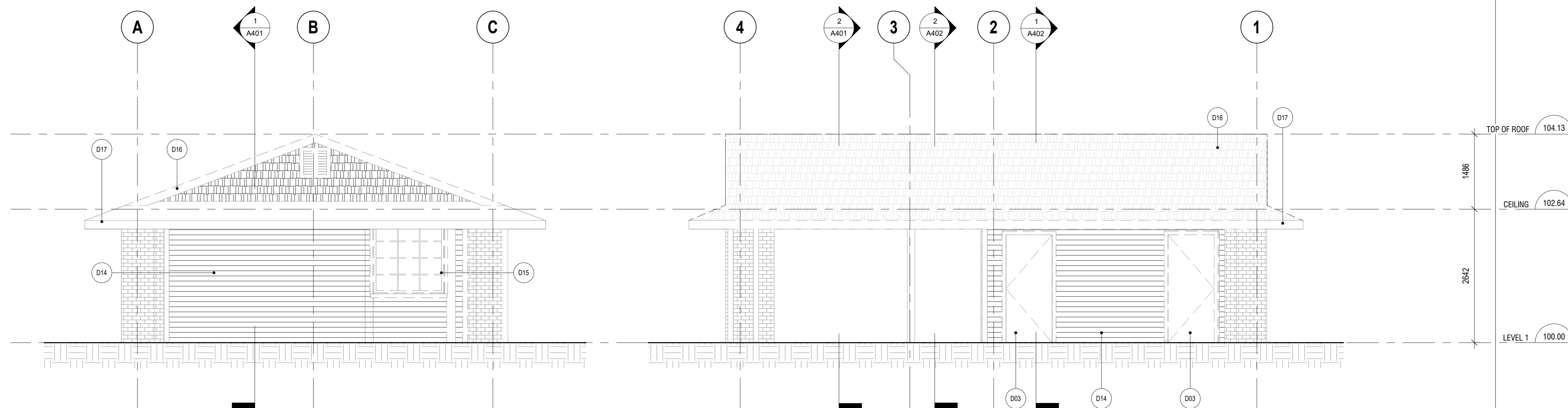
EXTERIOR ELEVATIONS - DEMOLITION

A301



2 SOUTH ELEVATION - DEMOLITION
A301 1:50

4 EAST ELEVATION - DEMOLITION
A301 1:50



1 WEST ELEVATION - DEMOLITION
A301 1:50

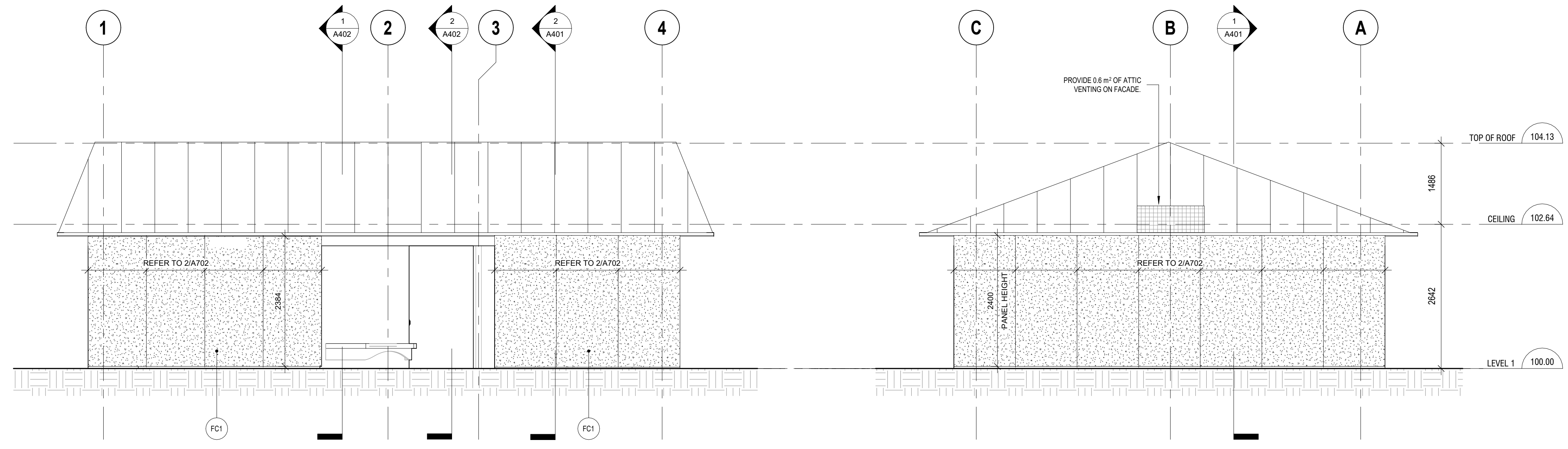
3 NORTH ELEVATION - DEMOLITION
A301 1:50

Autodesk Docs://2222 High Park Washroom/2222 High Park Washroom.rvt

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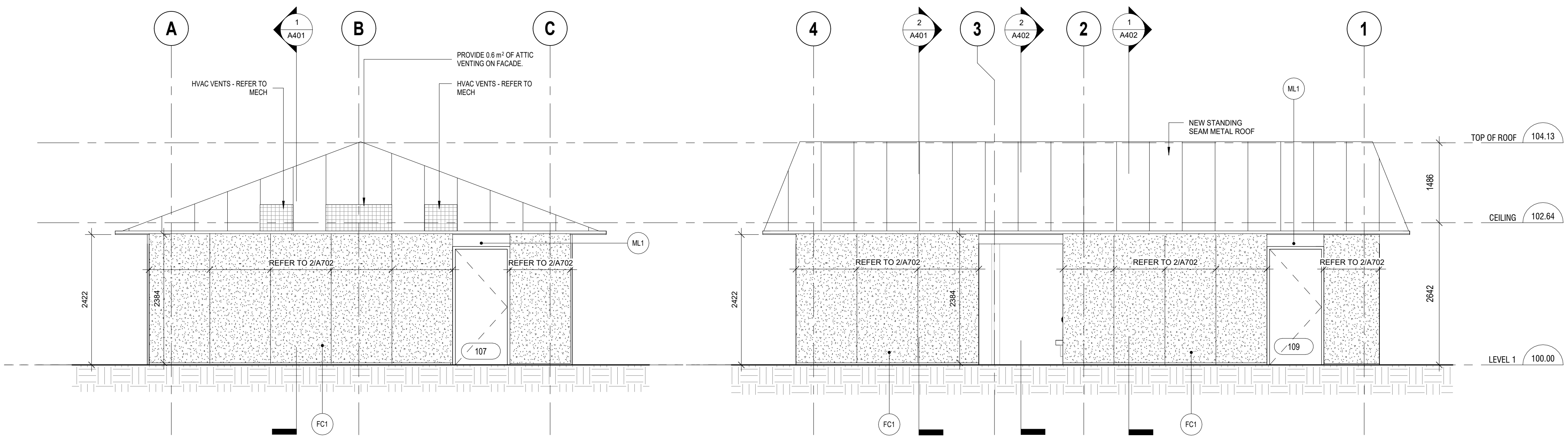
Material Keynote Legend

FC1	FIBER CEMENT PATTERN 1, REFER TO SPECIFICATIONS.
ML1	ALUMINUM METAL TRANSOM FINISH, REFER TO SPECIFICATIONS.



2 SOUTH ELEVATION - PROPOSED
A311 1:50

4 EAST ELEVATION - PROPOSED
A311 1:50



1 WEST ELEVATION - PROPOSED
A311 1:50

3 NORTH ELEVATION - PROPOSED
A311 1:50

Lower Hillside Washroom Building Improvements
City of Toronto
1873 BLOOR ST W
TORONTO, ON M6R 2Z3

2222

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EXTERIOR ELEVATIONS - PROPOSED

Autodesk Docs://2222 High Park Washroom/2222 High Park Washroom.rvt

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SOCA STUDIO OF CONTEMPORARY ARCHITECTURE

LAPTISTE ARCHITECTURE INC.

1137A Queen St. East
Toronto, ON M4M 1K9
(437) 916-9272

Lower Hillside Washroom Building Improvements

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TORONTO, ON M6R 2Z3

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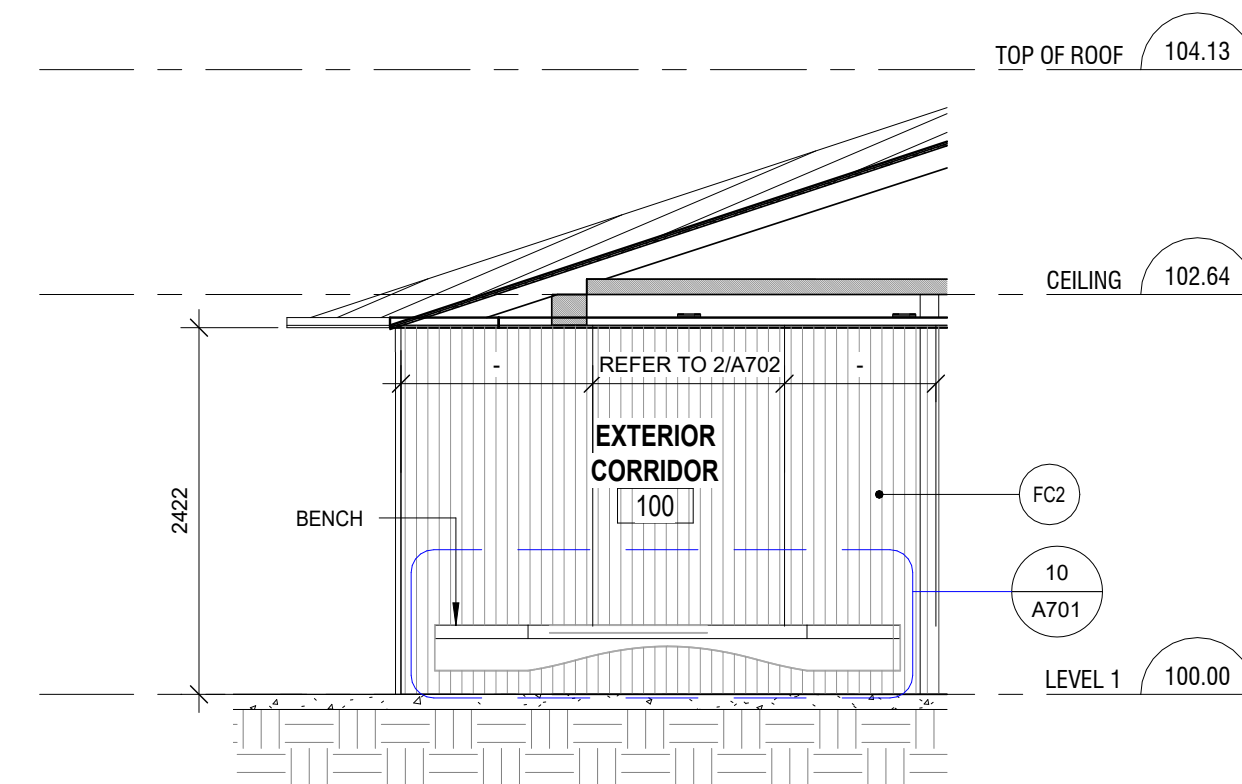
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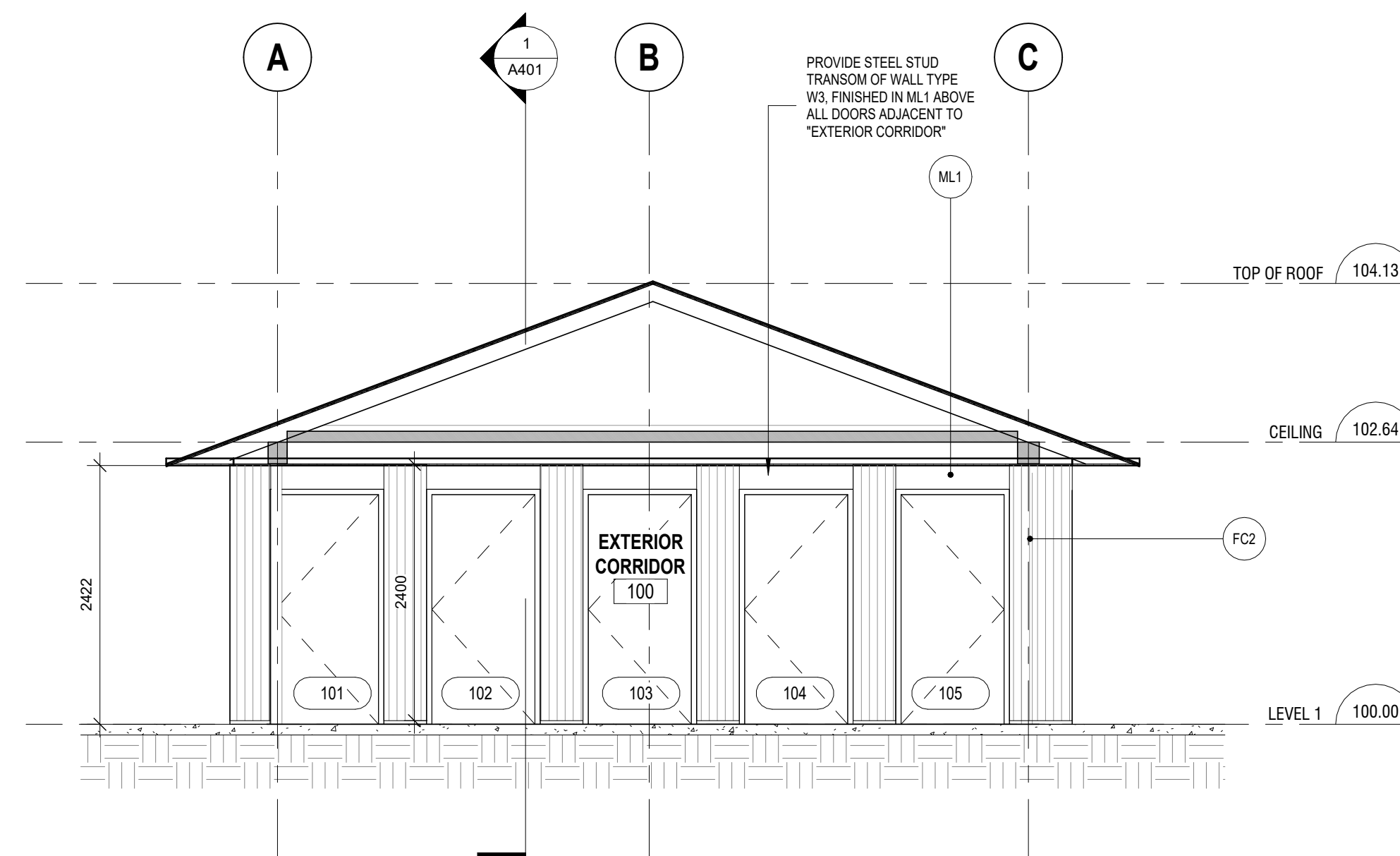
EXTERIOR ELEVATIONS - PROPOSED

A312

Material Keynote Legend	
FC2	FIBER CEMENT PATTERN 2, REFER TO SPECIFICATIONS.
ML1	ALUMINUM METAL TRANSOM FINISH, REFER TO SPECIFICATIONS.



3 INTERIOR ELEVATION PERPENDICULAR TO EQUIPMENT ROOM WALL
A312 1:50



2 EXTERIOR ELEVATION II
A312 1:50

Lower Hillside Washroom Building
Improvements

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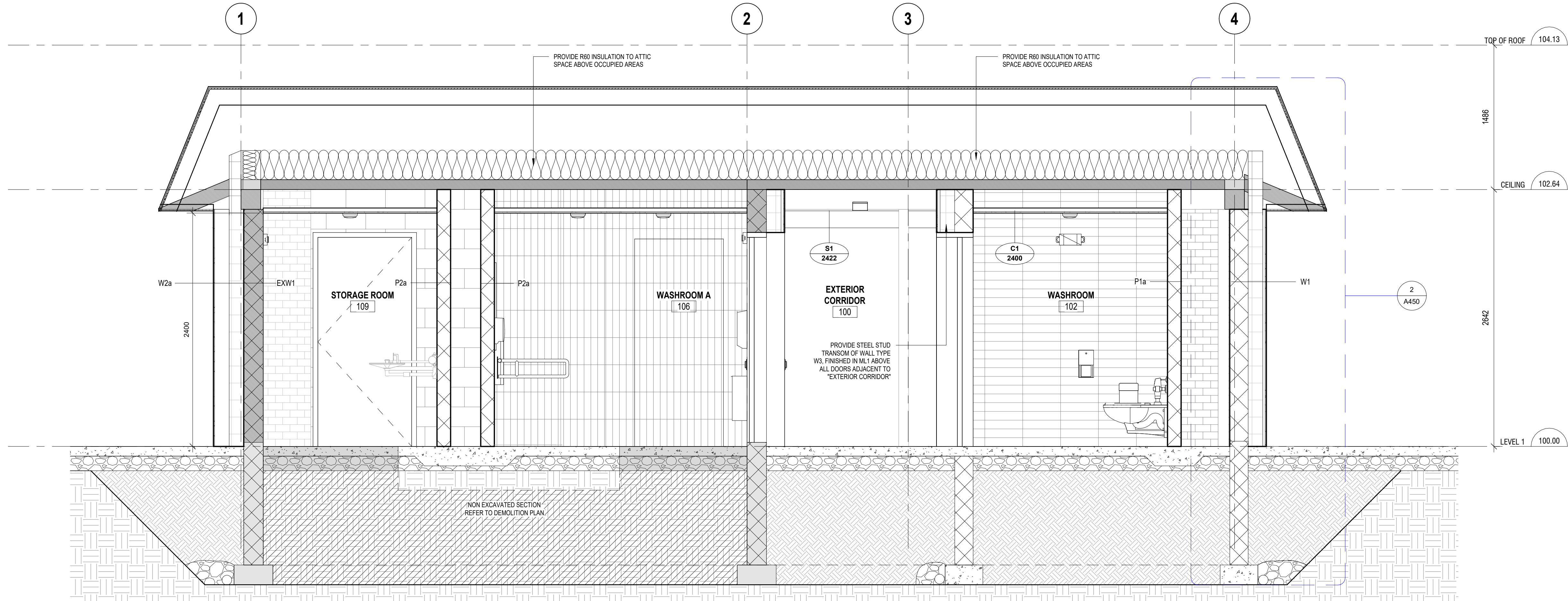
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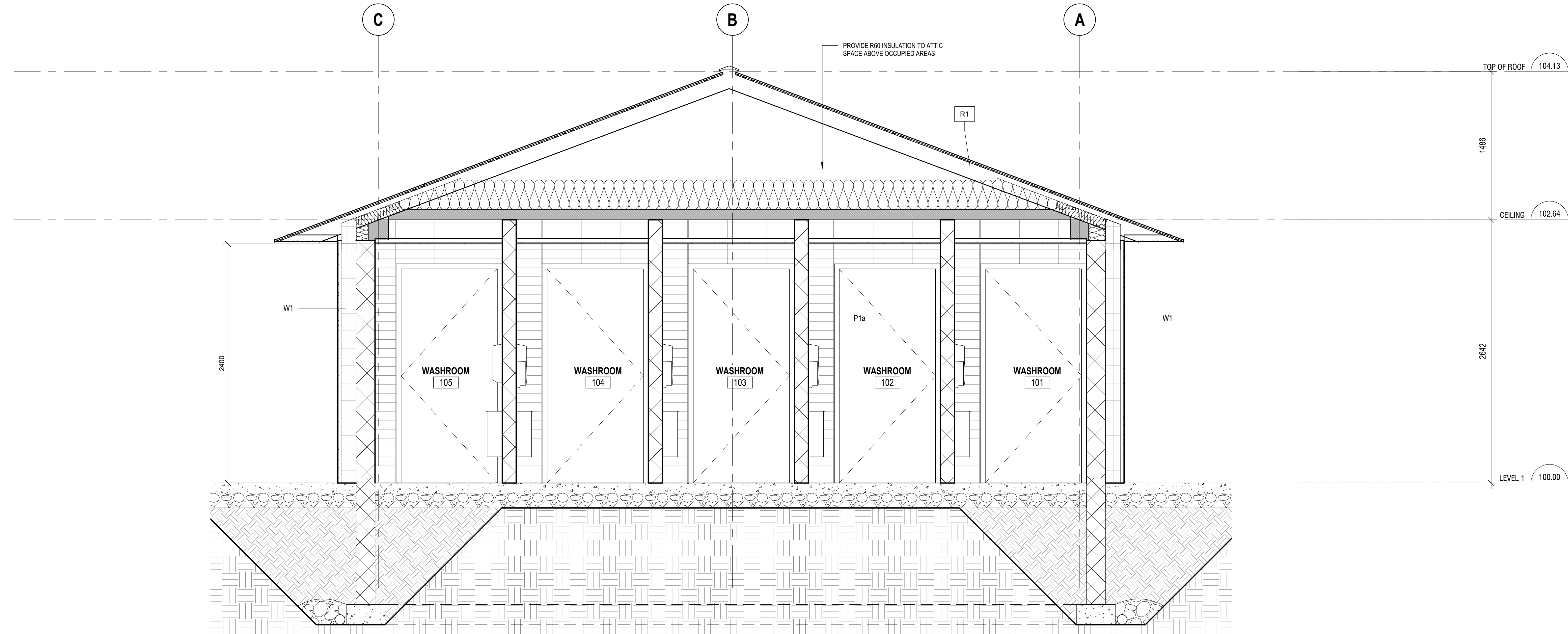
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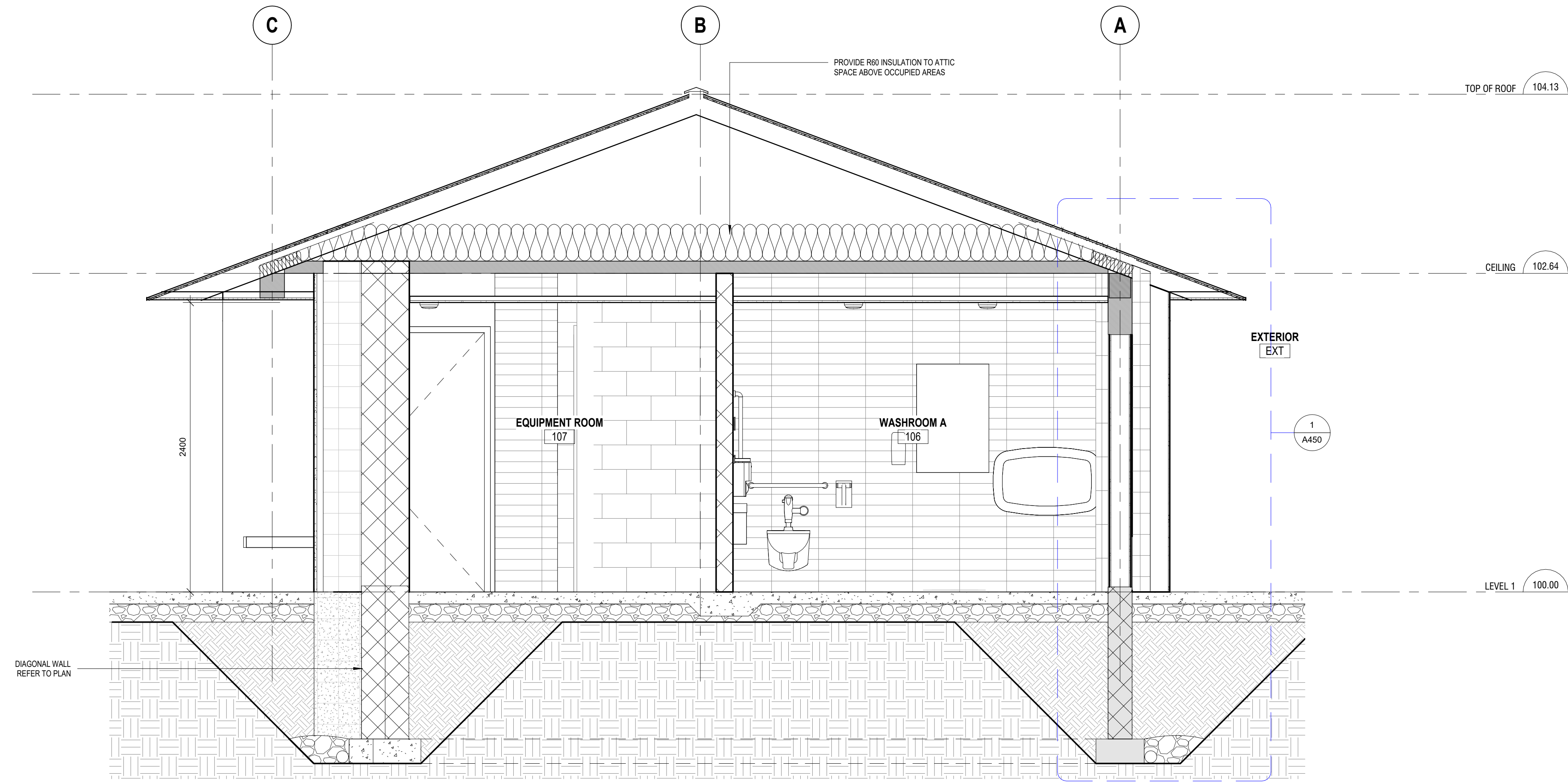
BUILDING SECTIONS



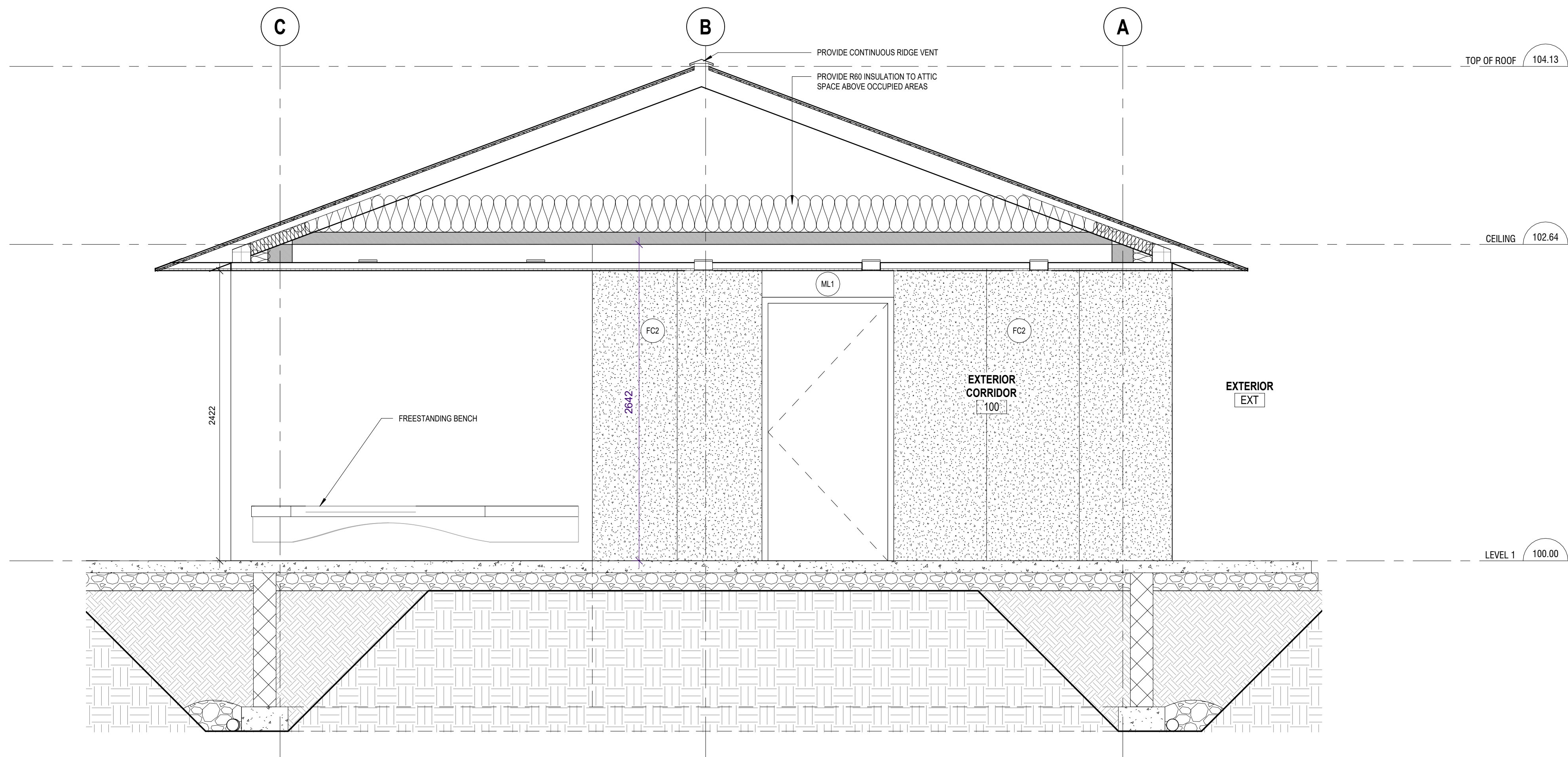
1 BUILDING SECTION E-W - PROPOSED
A401 1:25



2 BUILDING SECTION N-S - PROPOSED
A401 1:25



1 BUILDING SECTION 2
A402 1:25



2 BUILDING SECTION N-S - PROPOSED1
A402 1:25

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BUILDING SECTIONS

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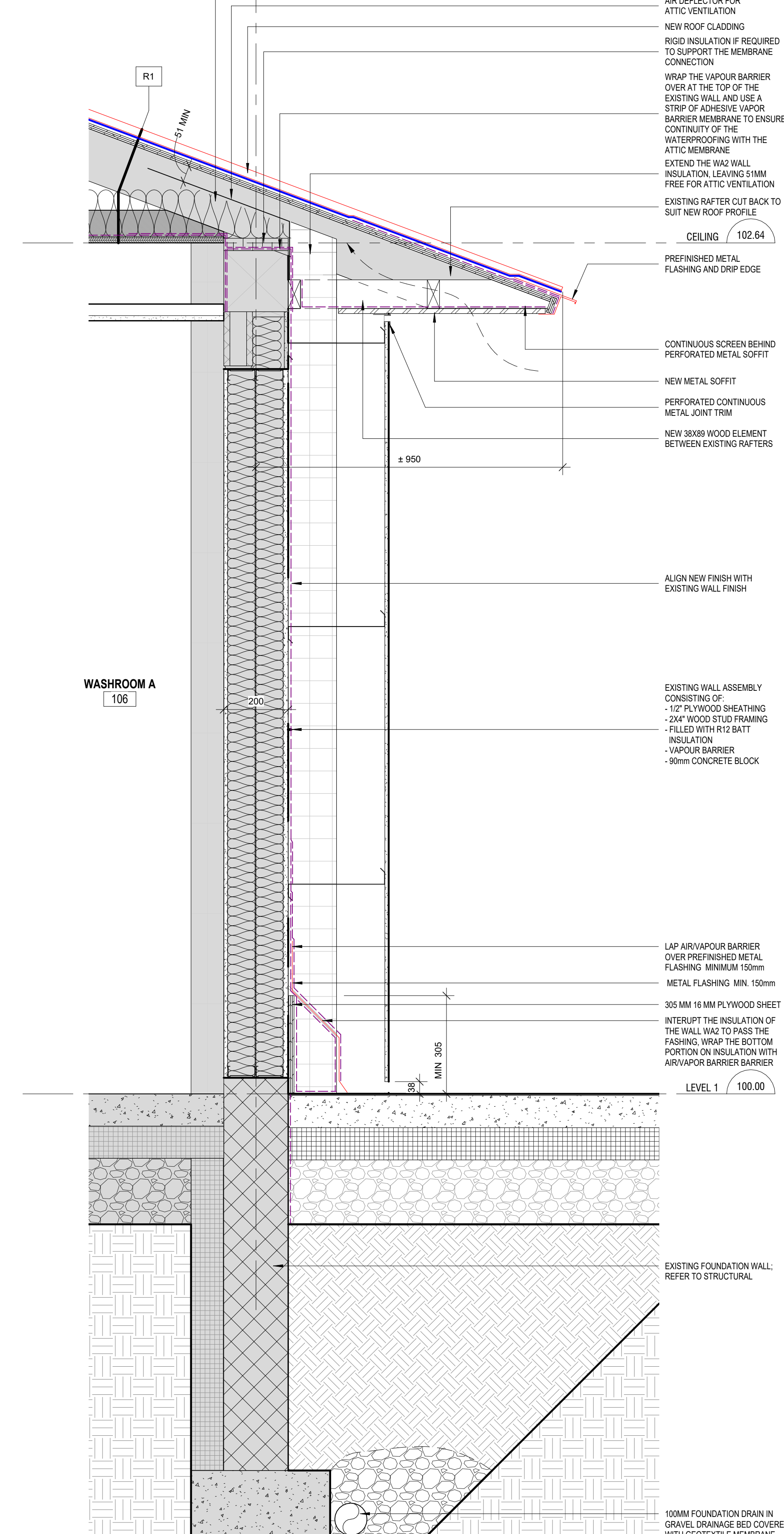
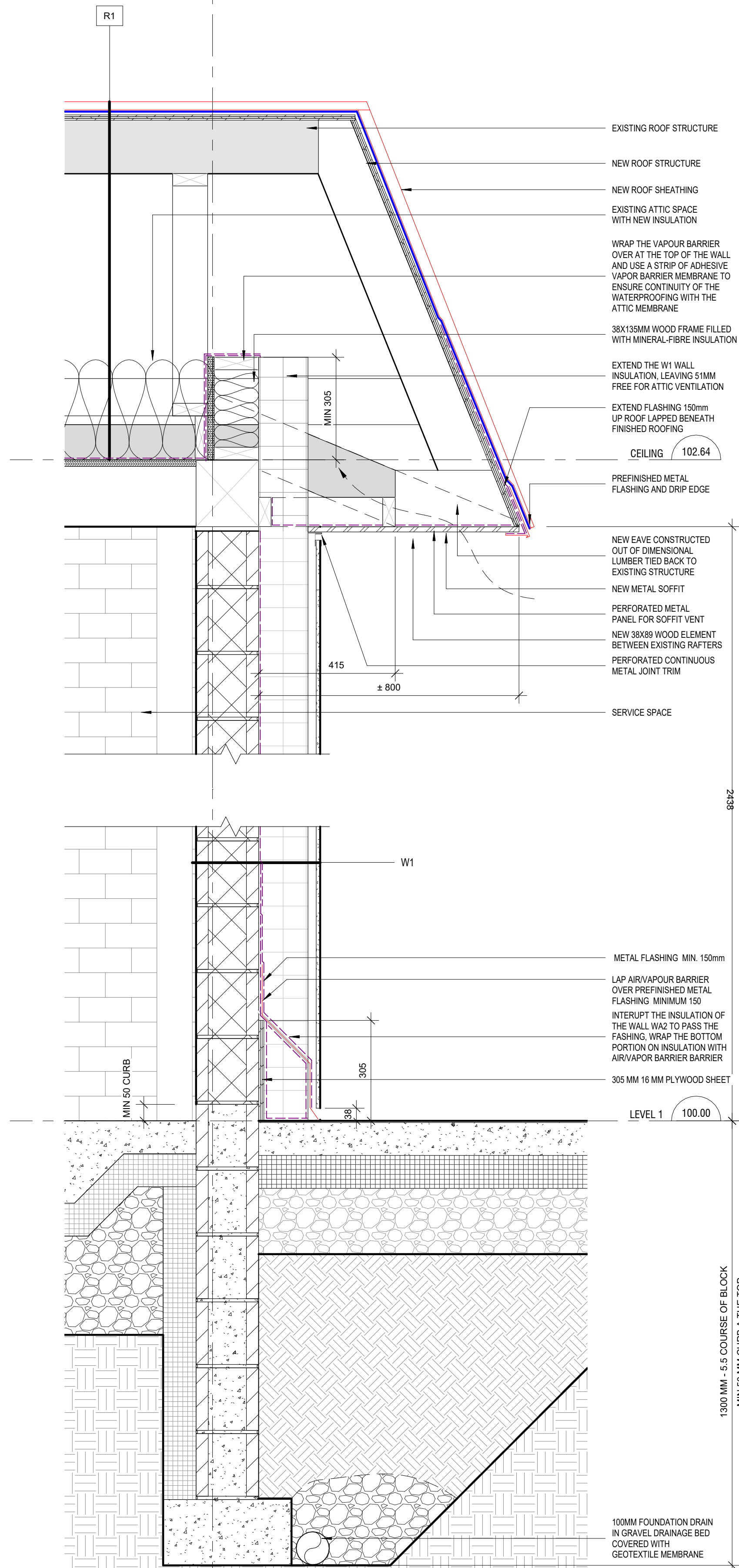
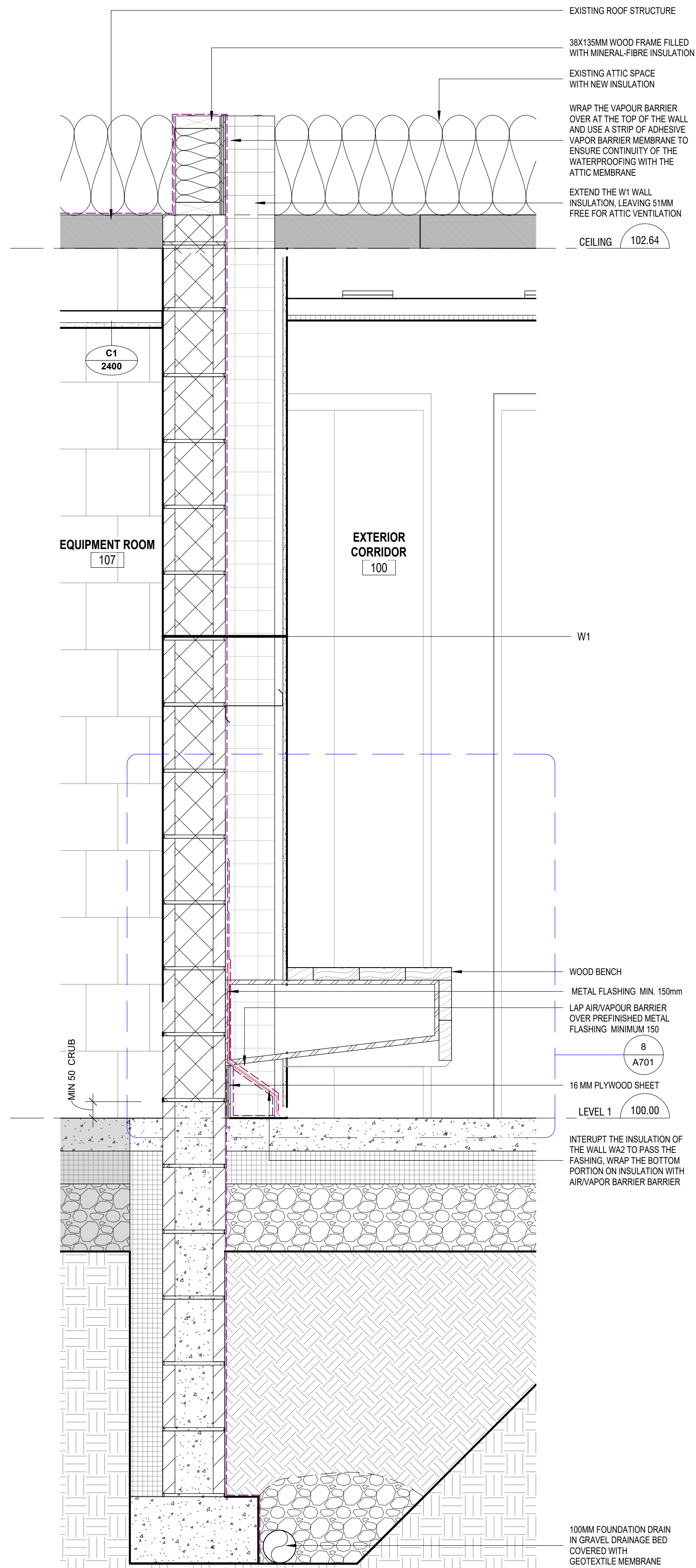
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WALL SECTIONS



ACCESSORY LEGEND

- BC BABY CHANGE TABLE
- EL EMERGENCY LIGHT
- GB1 90 DEG BARRIER FREE GRAB BAR
- GB2 HORIZONTAL GRAB BAR
- GB3 URINAL GRAB BAR
- GB4 FOLD DOWN GRAB BAR
- HD1 HAND DRYER
- MIR MIRROR (600mm x 900mm)
- MH MOP HOLDER
- PDO POWER DOOR OPERATOR
- PT PAPER TOWEL DISPENSER
- CH ROBE HOOK
- SD SOAP DISPENSER
- SND SANITARY NAPKIN DISPOSAL
- SNV SANITARY NAPKIN VENDING MACHINE
- TP TOILET PAPER DISPENSER
- WR TRASH RECEPTACLE

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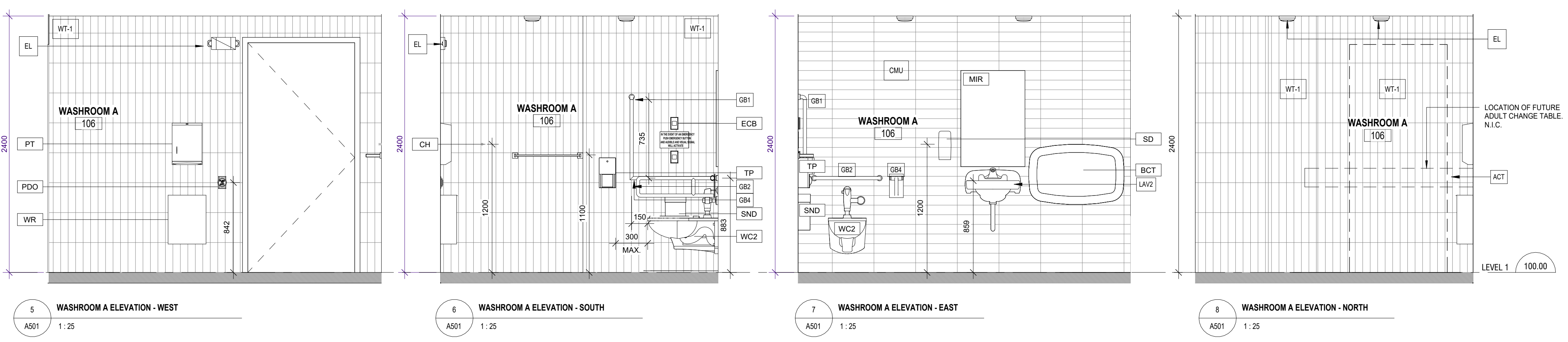
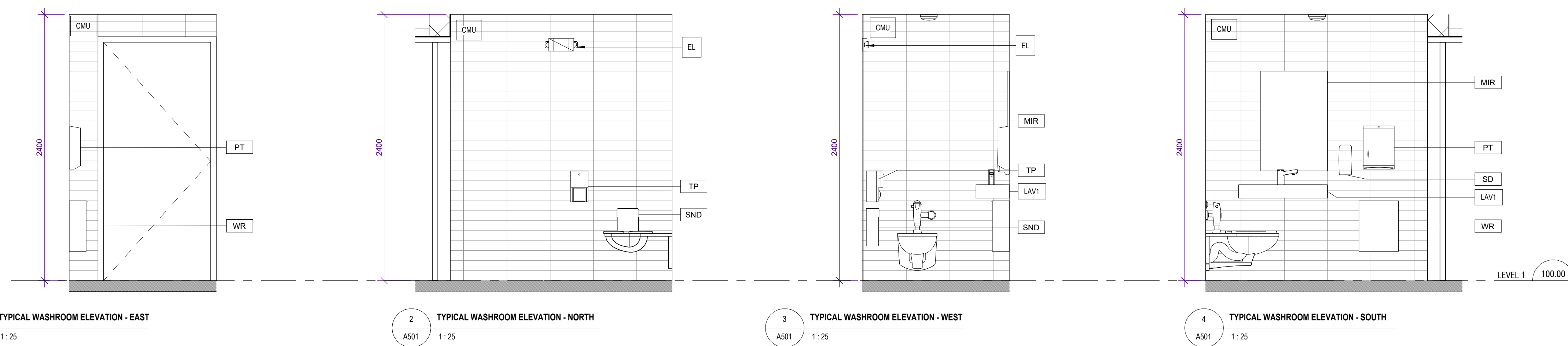
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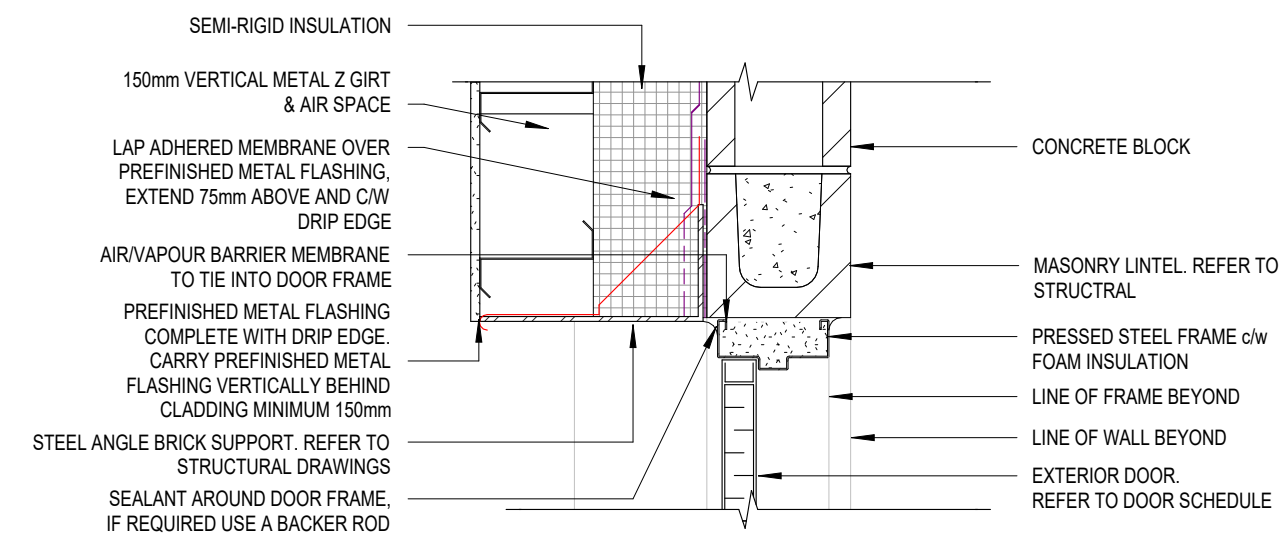
INTERIOR ELEVATIONS

A501

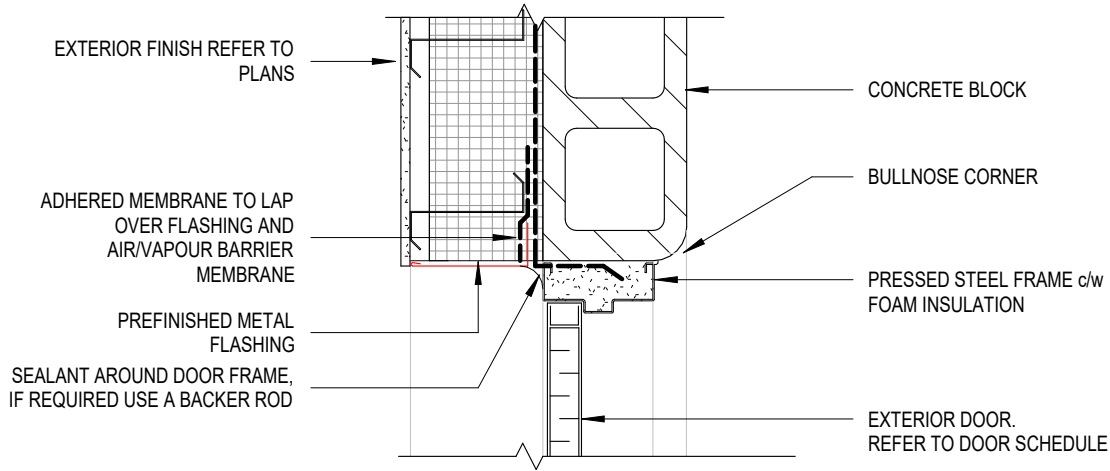


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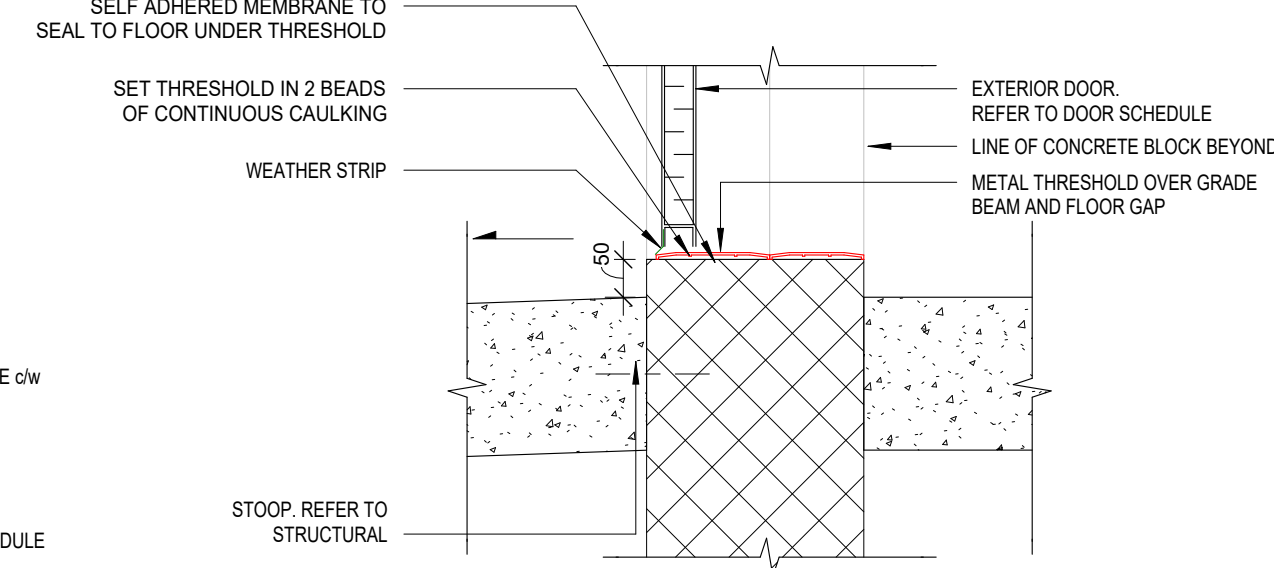
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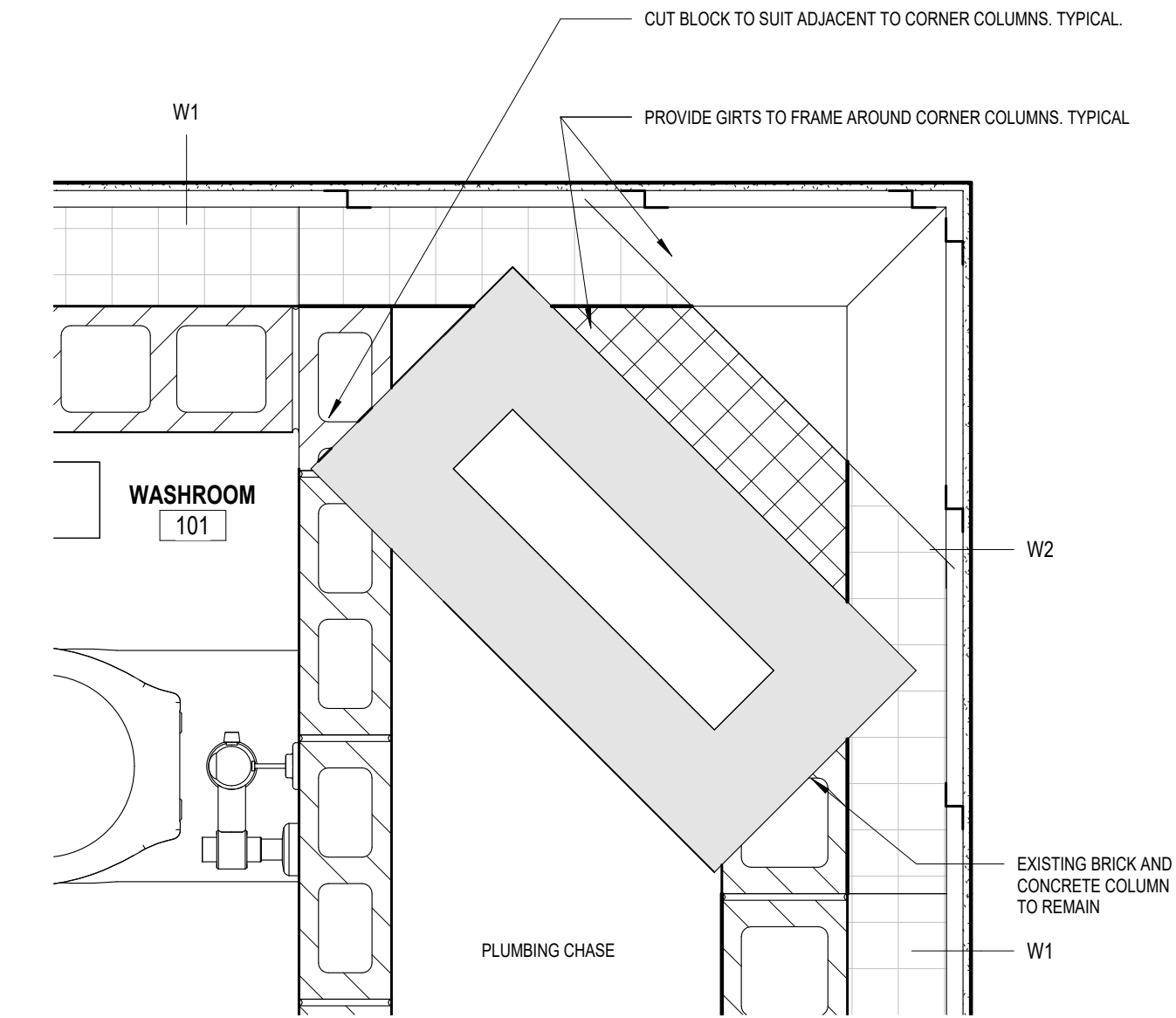
3 DOOR HEAD DETAIL
A701 1:10



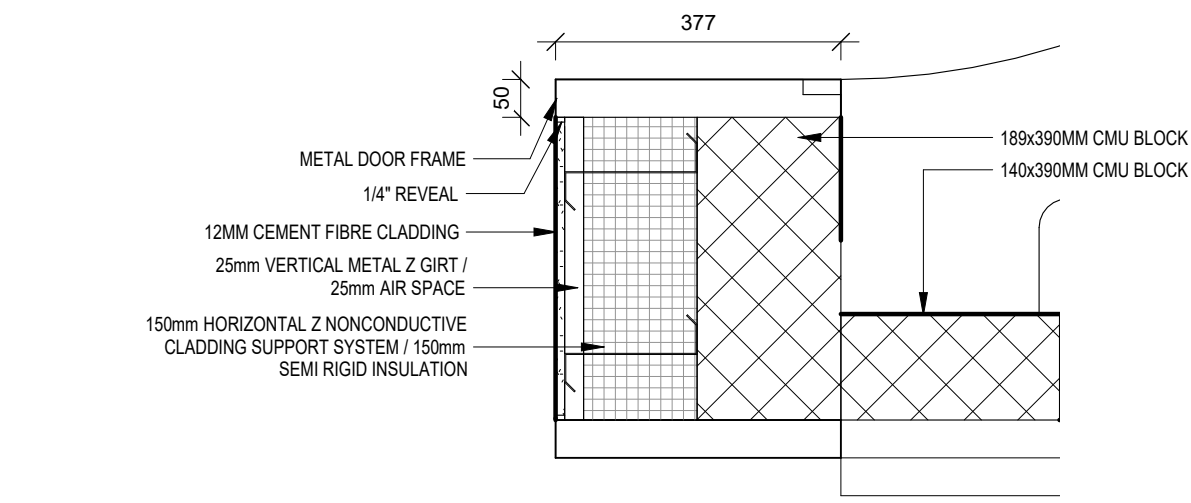
4 DOOR JAMB DETAIL
A701 1:10



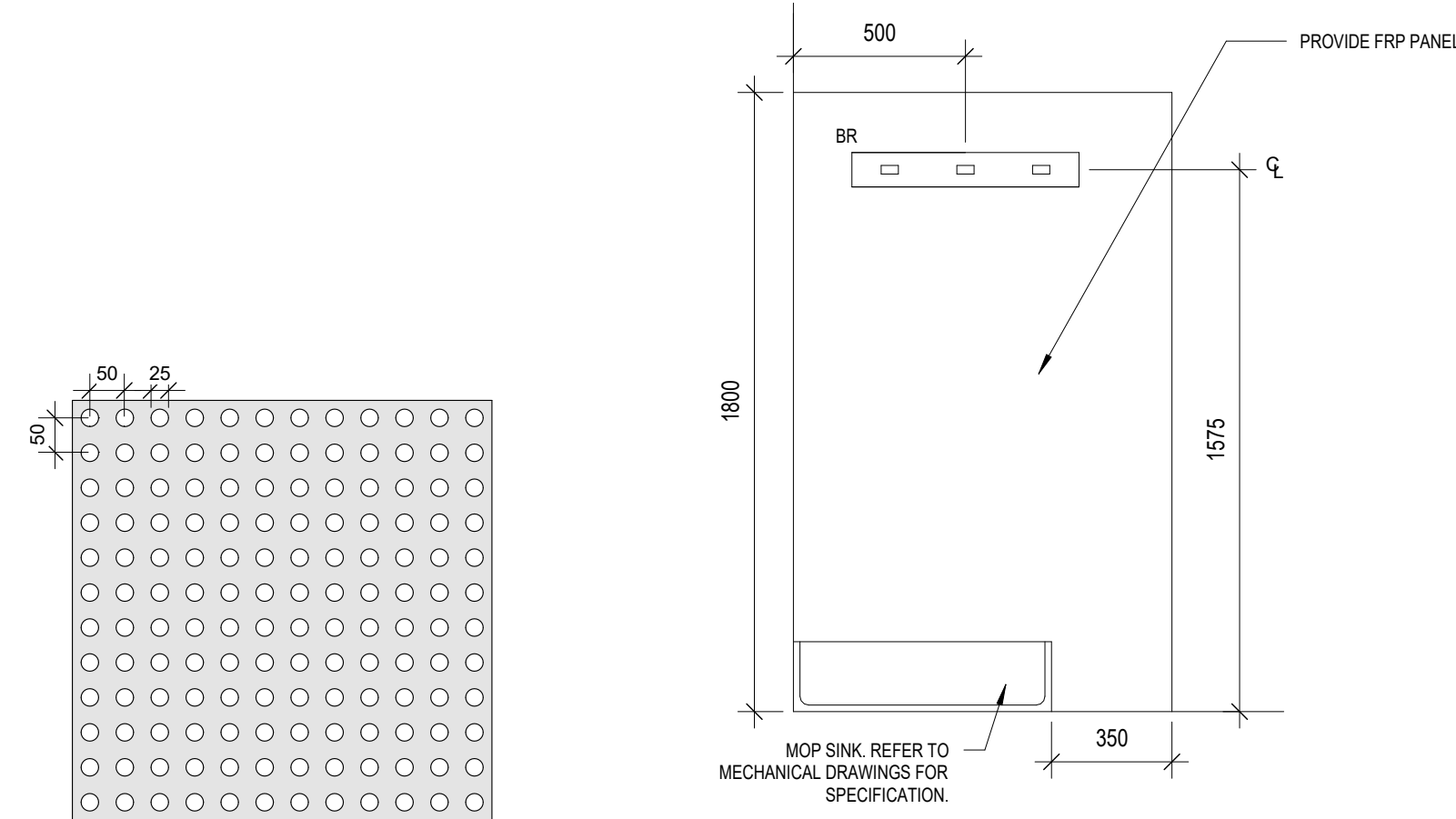
2 DOOR THRESHOLD
A701 1:10



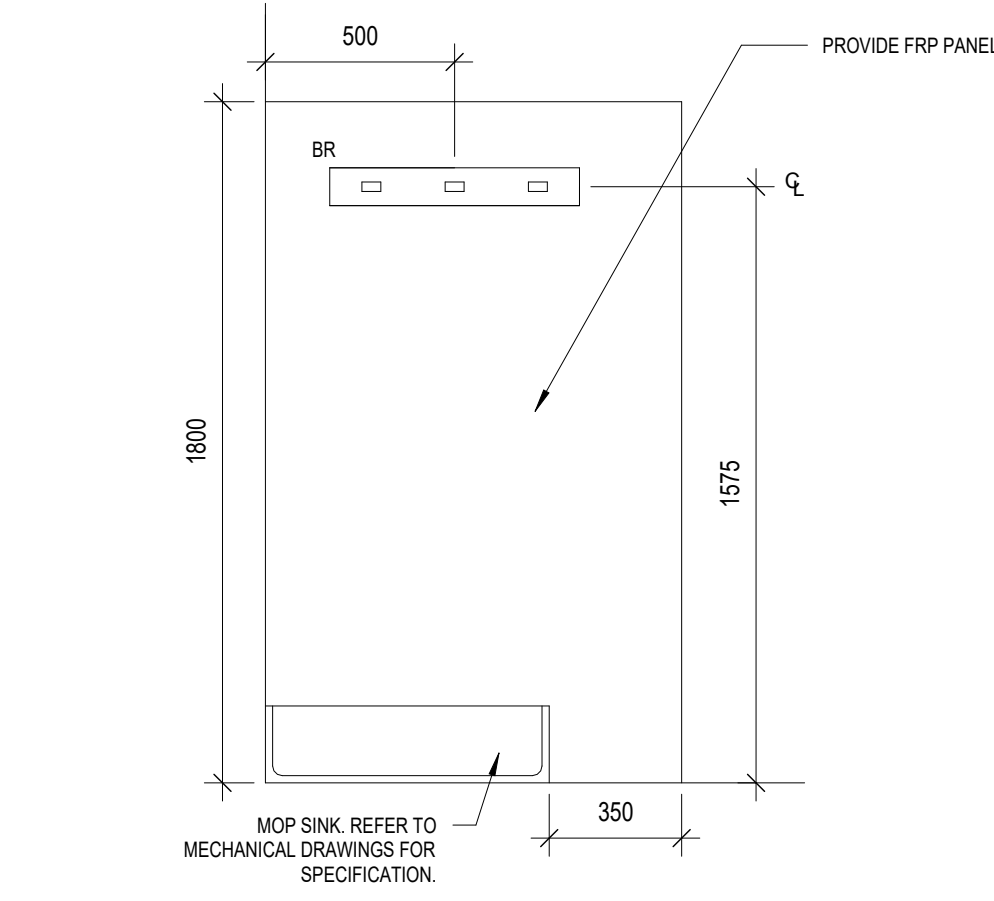
6 CORNER COLUMN DETAIL
A701 1:10



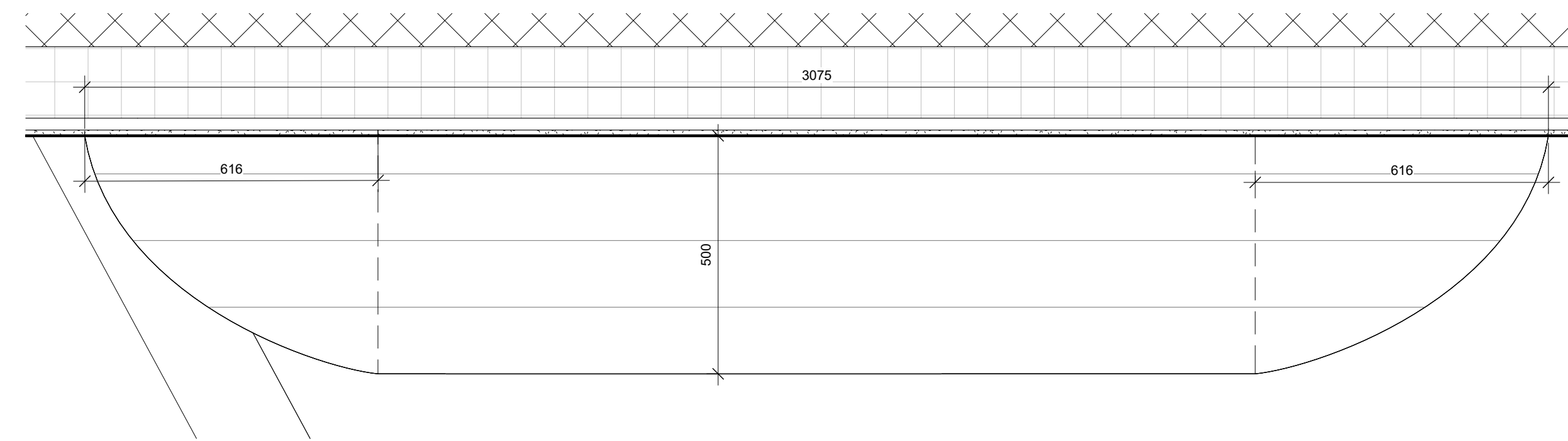
5 DOOR JAMB DETAIL
A701 1:10



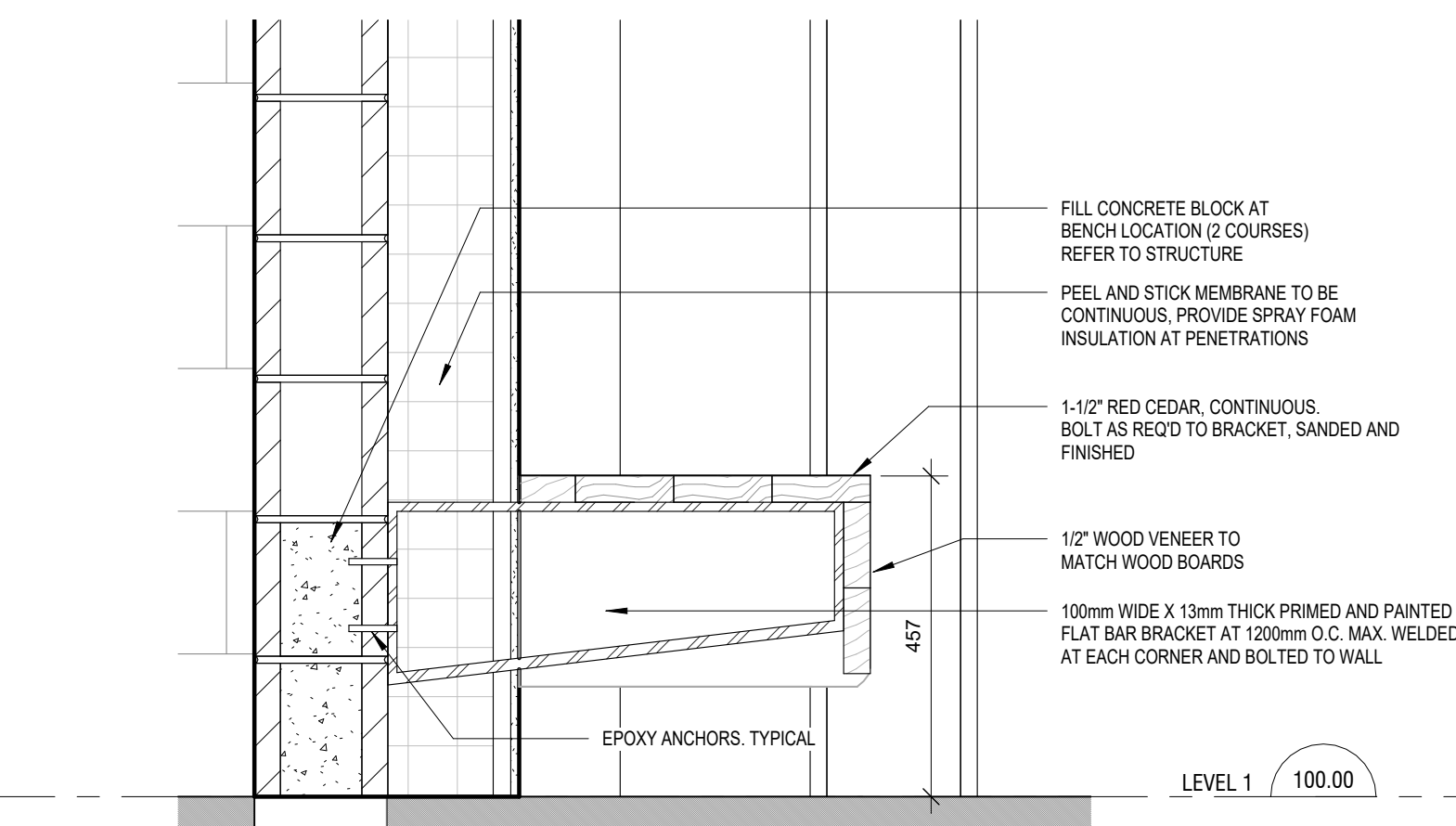
7 PERFORATION PATTERN
A701 1:10



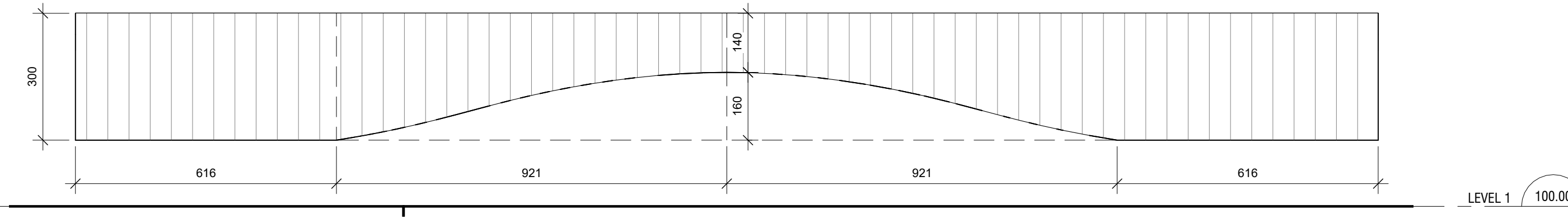
1 CUSTODIAL SINK
A701 1:20



9 BENCH - ENLARGED PLAN
A701 1:10



8 BENCH - SECTION DETAIL
A701 1:10



10 BENCH - ENLARGED ELEVATION
A701 1:10

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DETAILS

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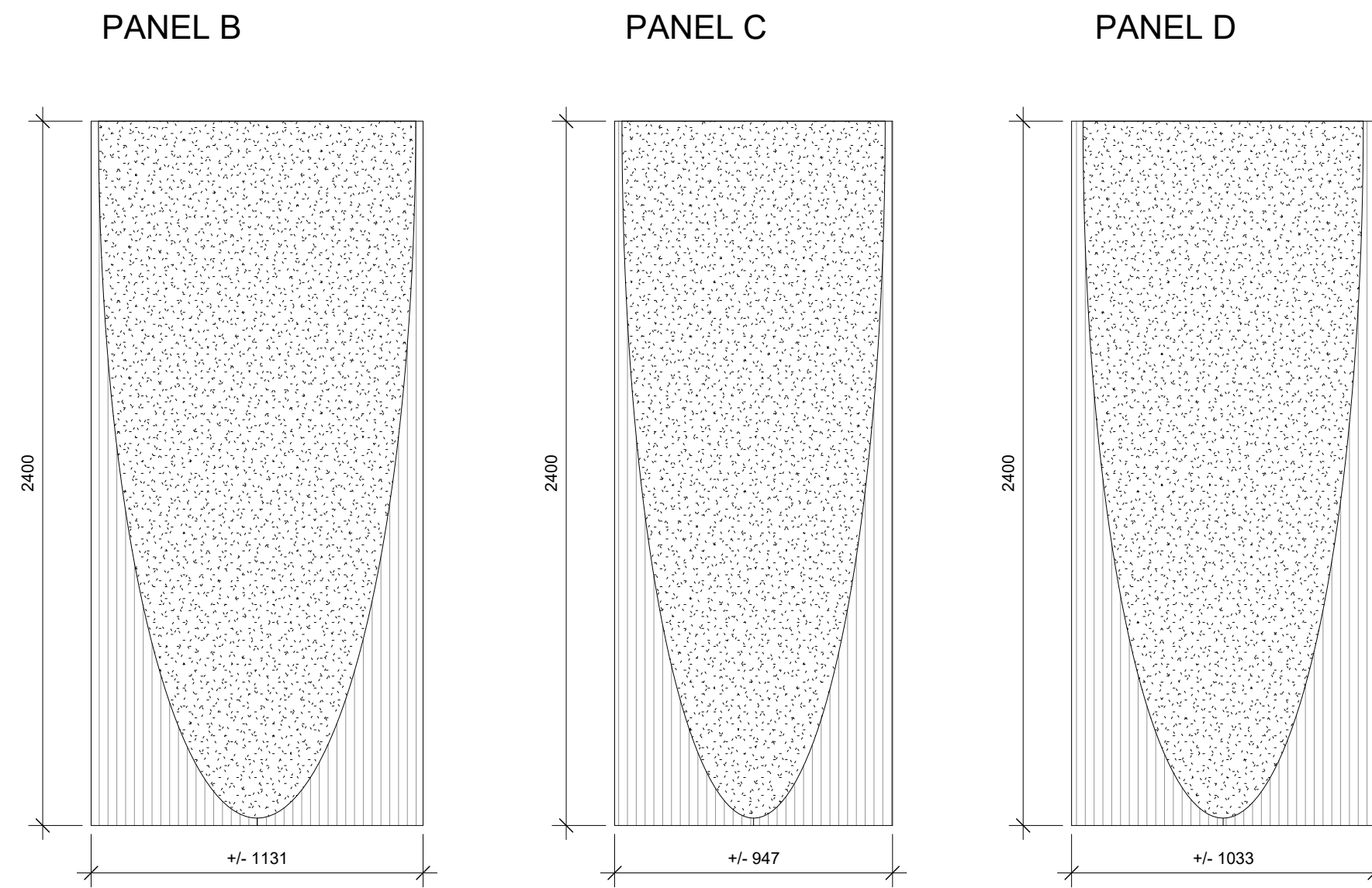
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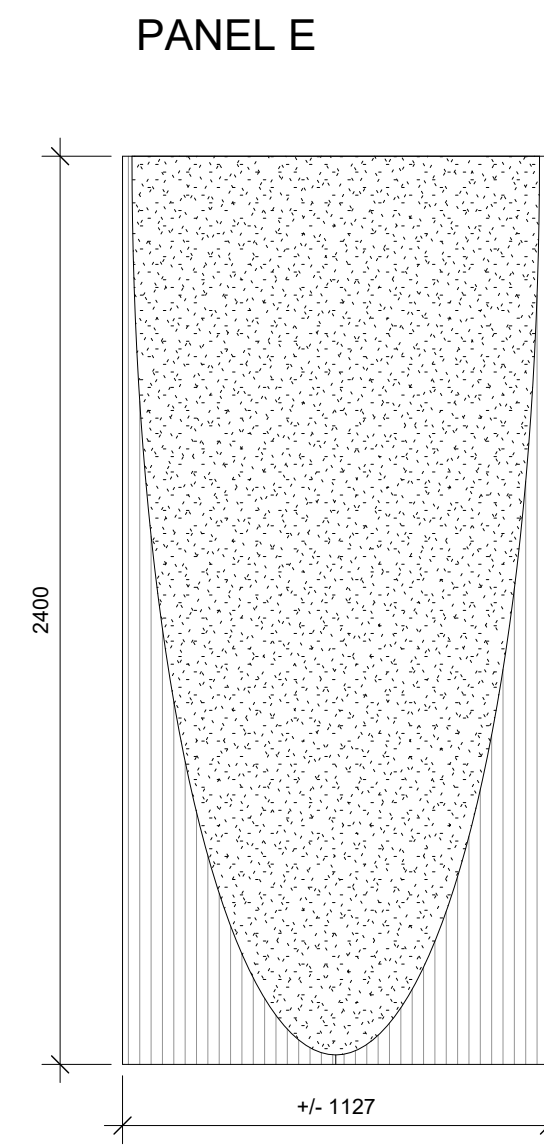
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PANEL DETAILS

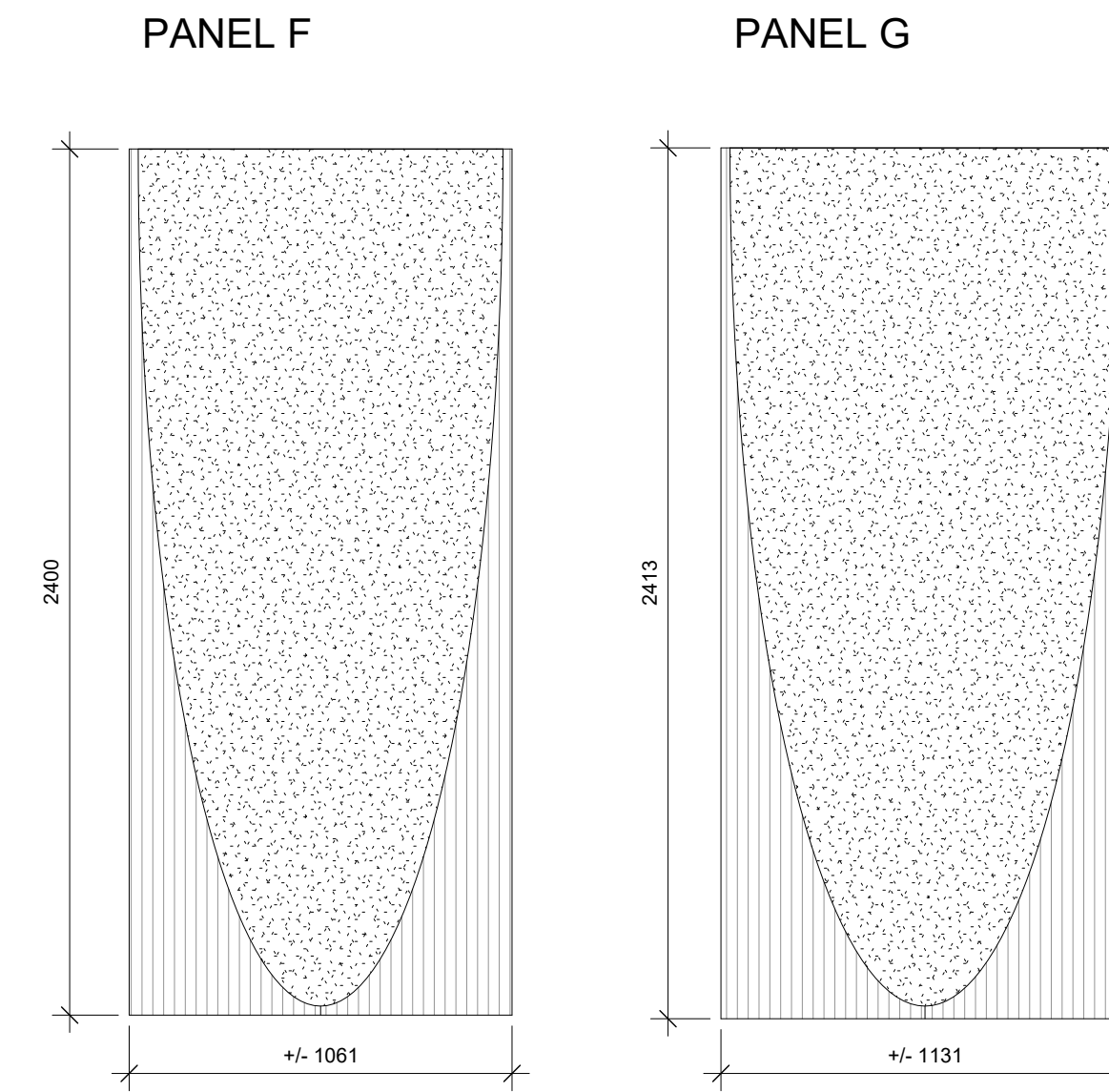
NORTH SIDE PANEL TYPES



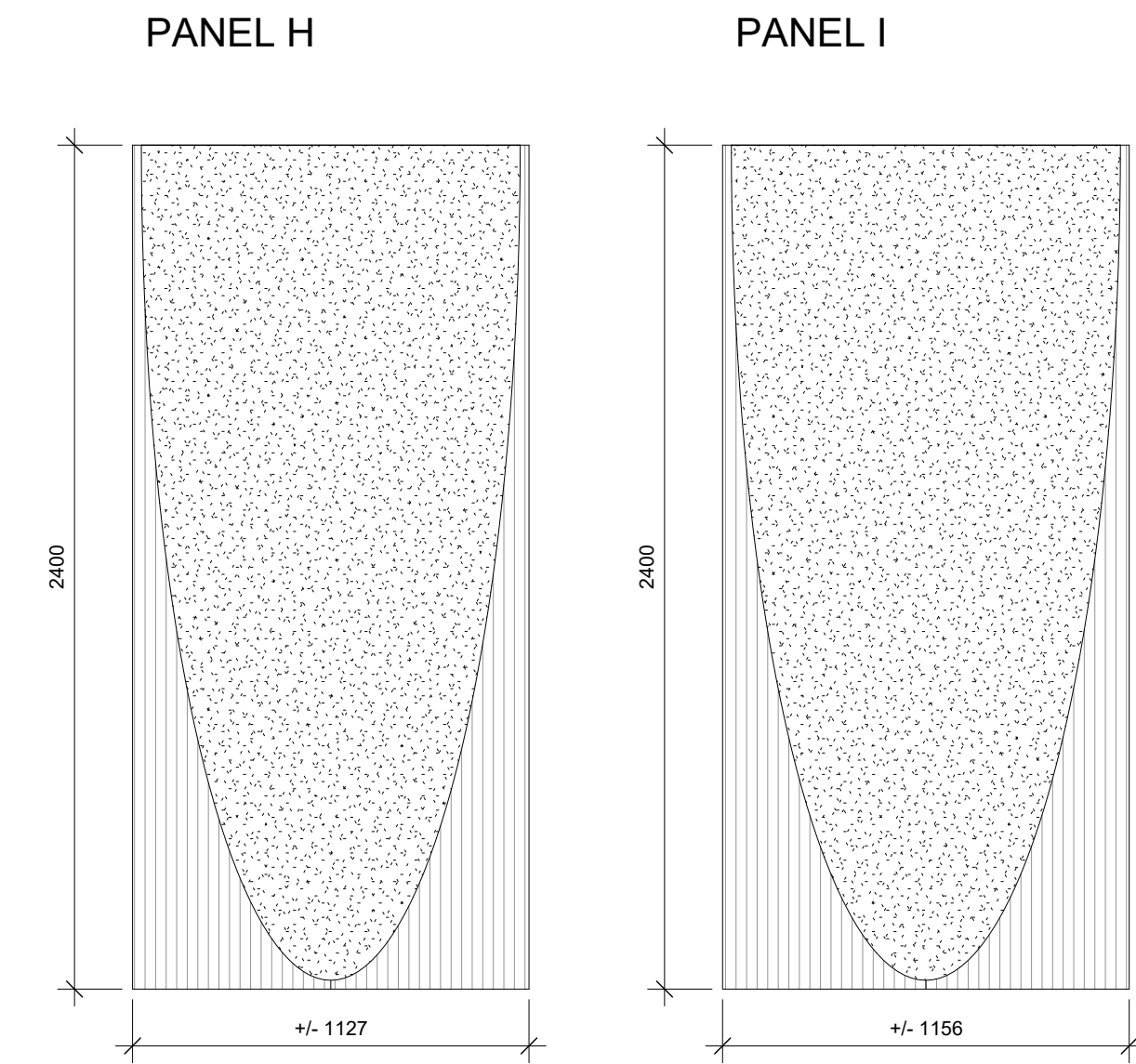
EAST SIDE PANEL TYPES



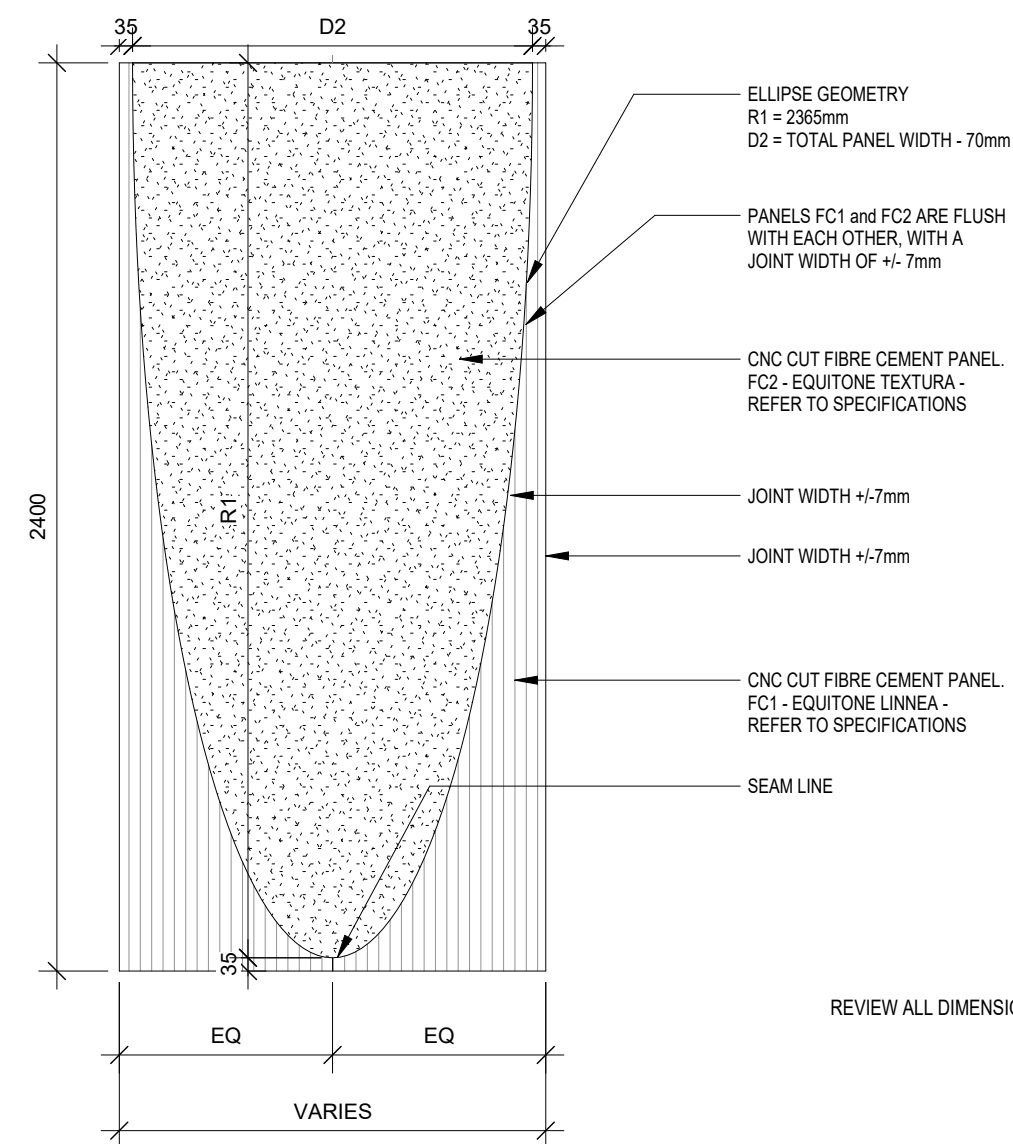
SOUTH SIDE PANEL TYPES



WEST SIDE PANELS

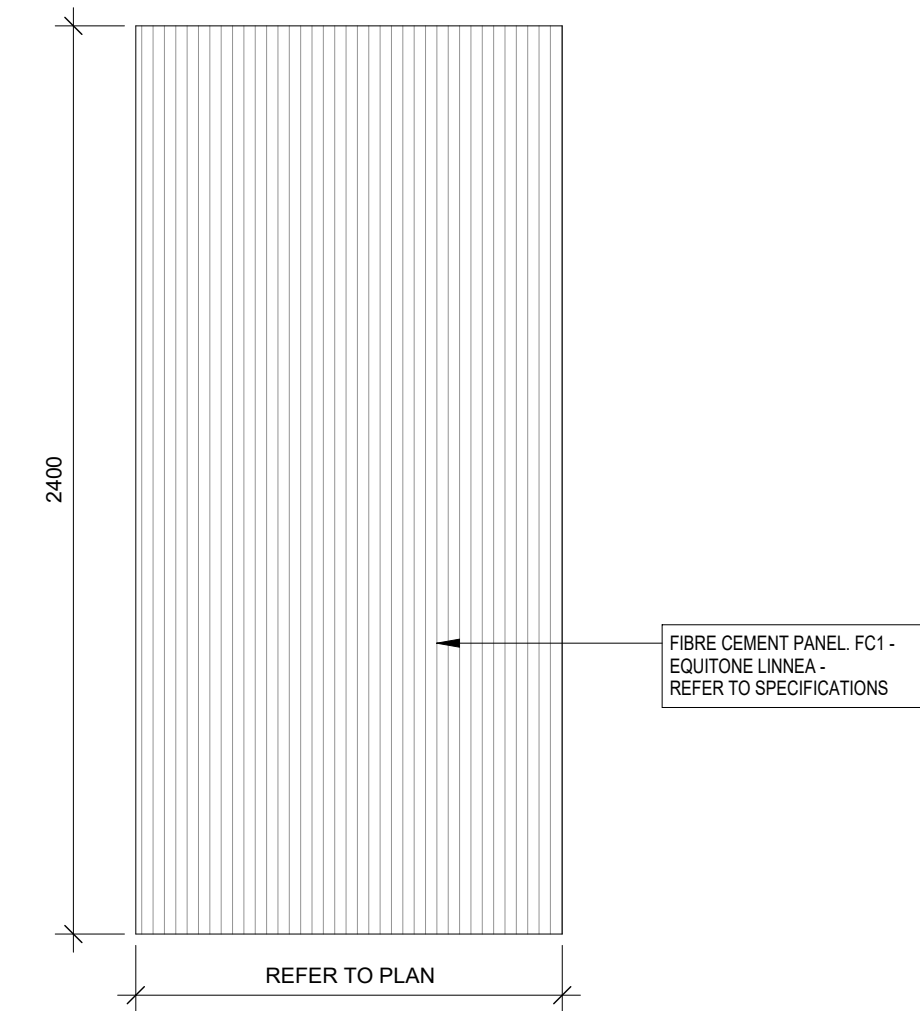


TYPICAL PANEL PATTERN AND TOLERANCE

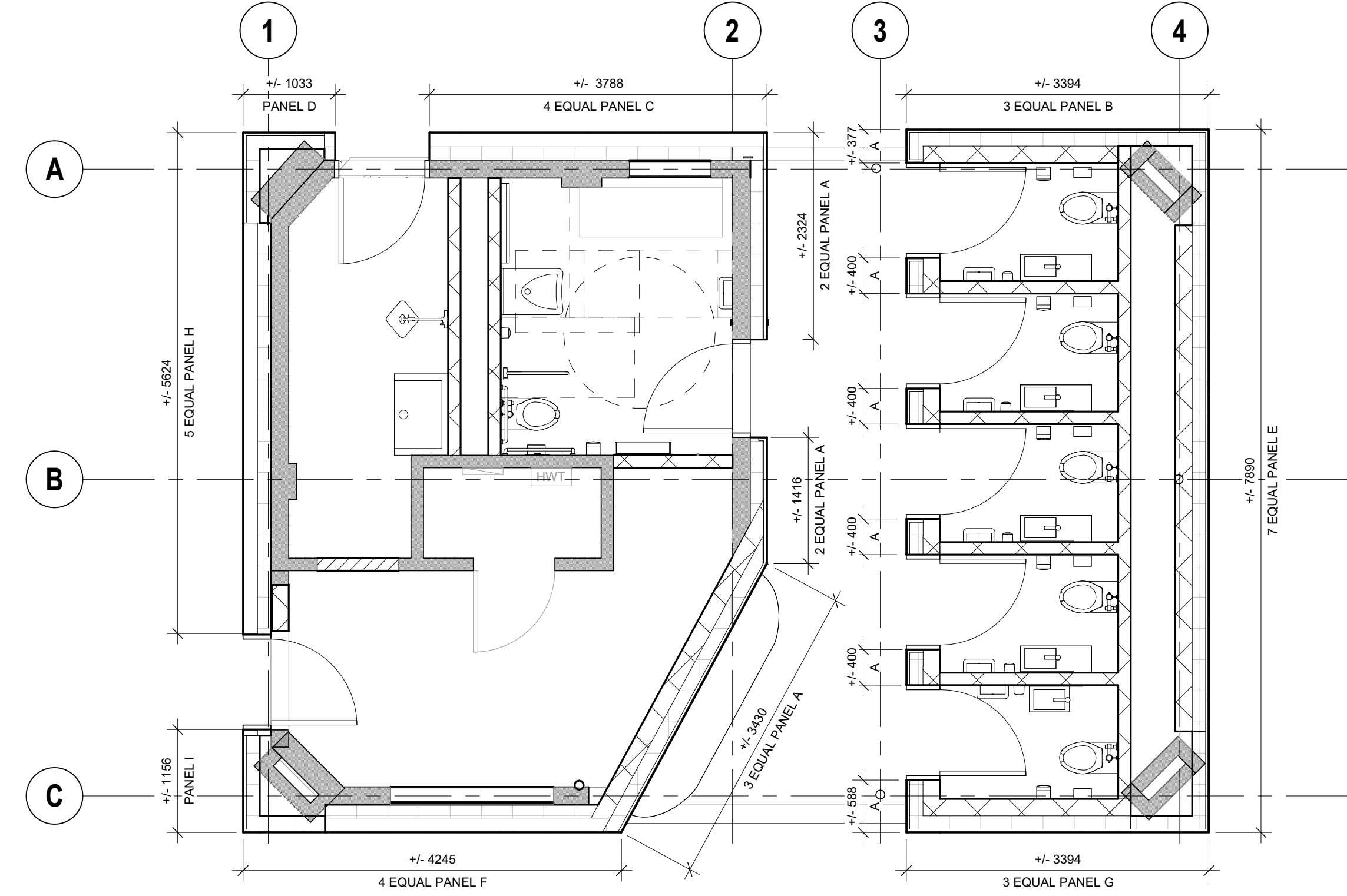
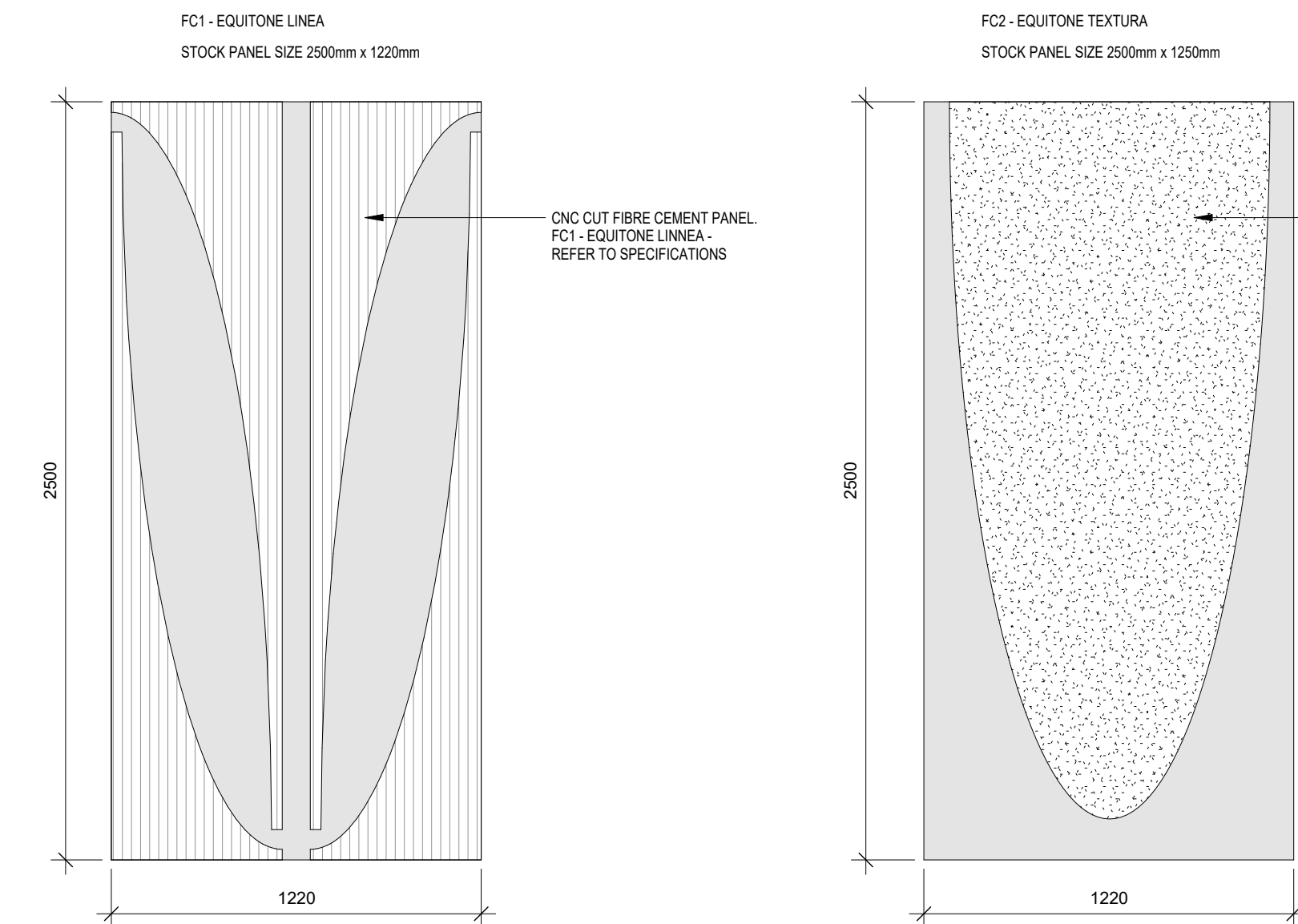


REVIEW ALL DIMENSIONS ON SITE BEFORE PRODUCING PANELS.

PANEL A



CUTTING GUIDE TO MINIMIZE WASTE



2 LEVEL 1 - PROPOSED PANEL LAYOUT
A702 1:50

1 PANEL LEGEND
A702 1:20

GENERAL NOTES

A. GENERAL INFORMATION

- 1. READ STRUCTURAL DOCUMENTS IN CONJUNCTION WITH CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DOCUMENTS.
2. CONTRACTOR TO BE RESPONSIBLE FOR CHECKING SITE CONDITIONS AGAINST DOCUMENTS, BEFORE PROCEEDING WITH THE WORK, AND REPORT DISCREPANCIES TO THE CONSULTANT.
3. CONTRACTOR TO PROVIDE LABOUR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL STRUCTURAL WORK INDICATED.
4. CARRY OUT CONSTRUCTION OPERATIONS, INCLUDING THE INSTALLATION OF TEMPORARY GUYING AND SHORING REQUIRED, ENSURING THAT THE EXISTING STRUCTURE OR MEMBERS ALREADY ERRECTED ARE NOT LOADED IN EXCESS OF THEIR SAFE LOAD CARRYING CAPACITY.
5. STRUCTURAL DOCUMENTS DO NOT NECESSARILY SHOW ALL OPENINGS AND SLAB VARIATIONS REQUIRED. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR THE EXACT LOCATION, NUMBER, AND SIZE OF OPENINGS, TRENCHES, PITS, SUMPS, SLEEVES, AND DEPRESSIONS. PROVIDE STRUCTURAL FRAMING AT THESE LOCATIONS IN ACCORDANCE WITH THE APPLICABLE TYPICAL DETAIL.

B. REFERENCE STANDARDS / CODES AND ACTS

- 1. CONFORM WITH THE 2012 BUILDING CODE (ONTARIO REGULATION 332/12, AMENDED BY ONTARIO REGULATION 867/21), AND ANY APPLICABLE ACTS OF ANY AUTHORITY HAVING JURISDICTION, AND THE FOLLOWING:

Table with 3 columns: REF, CODE, TITLE. Lists various standards like CAN/CSA A23.1, CAN/CSA A23.2, CAN/CSA A23.3, CAN/CSA-S16, CAN/CSA G40.20/G40.21, RSIC, O86, CAN/CSA-A370, CSA-A371, S304.1, CSA G30.18.

- 2. ALL STANDARDS AND PUBLICATIONS REFERENCED BY THE STANDARDS NOTED ABOVE ARE TO APPLY.
3. WHERE THERE ARE DIFFERENCES BETWEEN THE DOCUMENTS AND THE STANDARDS, CODES AND ACTS, THE MOST STRINGENT SHALL GOVERN.

C. SUBMITTALS

- 1. SUBMIT FOR REVIEW BY THE VARIOUS CONSULTANTS, DETAILED INFORMATION FOR ALL TEMPORARY AND PERMANENT STRUCTURAL WORK. THIS INCLUDES, BUT IS NOT LIMITED TO:

Table with 4 columns: ITEM, SUBMISSION REQUIRED, SUBMISSION TO BE SEALED BY PROFESSIONAL ENGINEER, COMMENTS. Row for CONCRETE MIX DESIGNS.

- 2. CONTRACTOR SHALL ALLOW FOR A TURN AROUND TIME OF FIVE WORKING DAYS FOR THE REVIEW OF THESE SUBMISSIONS.
3. OUR REVIEW OF THE SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS. COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS, NOR DO THEY AUTHORIZE ANY CHANGES TO THE CONTRACT. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL QUANTITIES, DETAIL DIMENSIONS, FIELD MEASUREMENTS, FABRICATION PROCESS, MEANS, METHODS, SEQUENCES, AND PROCEDURES OF CONSTRUCTION, COORDINATION OF WORK WITH ALL TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER. THE REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITY RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THE SPECIFICATIONS (SUCH AS STRUCTURAL STEEL CONNECTIONS, STEEL JOISTS, PRECAST ELEMENTS, ETC.). AFTER REVIEW, THE DRAWINGS WILL BE STAMPED AND RETURNED TO SHOW ONE OF THE FOLLOWING:

Table with 2 columns: Action (NOT REVIEWED, REVIEWED, NOTED, RESUBMIT) and Description (SHOWS WORK WHICH IS NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES, NO DEVIATIONS FROM THE CONTRACT DOCUMENTS NOTED, WE HAVE MADE COMMENTS, TO BE REVIEWED/INCORPORATED, SUBMIT RECORD PRINT, REVISE AND RESUBMIT FOR REVIEW).

D. MATERIALS

- 1. PROVIDE ONLY NEW STRUCTURAL MATERIALS IN ACCORDANCE WITH THE REFERENCE STANDARDS AND THE FOLLOWING, UNLESS OTHERWISE NOTED.

- 1.1. CONCRETE:

Table with 6 columns: STRUCTURAL ELEMENT AND EXPOSURE, EXPOSURE CLASS PER CSA A23.1, CONCRETE STRENGTH fc (MPa), SLUMP (mm), MAX W/C RATIO, AIR CONTENT. Rows for FOOTING AND CAPS, SLABS-ON-GRADE EXPOSED TO CHLORIDES AND FREEZING.

TOLERANCE FOR SLUMP SHALL BE ± 20 mm FOR SPECIFIED SLUMP LESS THAN 80 mm, AND ± 30 mm FOR SPECIFIED SLUMP BETWEEN 80 mm AND 170 mm.

* SPECIAL CONCRETE HANDLING AND PLACING METHODS, OR THE USE OF A SUPER PLASTICIZER, WILL BE REQUIRED TO PLACE THIS CONCRETE. FINAL PLASTICIZED SLUMP SHALL BE ± 125 mm.

- 1.2. REINFORCING STEEL: CONFORM TO CSA G30 SERIES, GRADE 400.
1.3. WELDED WIRE FABRIC: CONFORM TO CSA G30 SERIES, GRADE 386, IN FLAT SHEETS.
1.4. STRUCTURAL STEEL:
1.4.1. STRUCTURAL WIDE FLANGE AND WELDED WIDE FLANGE SHAPES (W, WWF) TO CONFORM TO CAN/CSA G40.20/G40.21 GRADE 350W.
1.4.2. ANGLES (L), CHANNELS (C), AND PLATES TO CONFORM TO CAN/CSA-G40.20/G40.21 GRADE 300W.
1.4.3. HOLLOW STRUCTURAL SECTIONS (HSS) TO CONFORM TO ASTM A500 GRADE C.
1.5. PRIME PAINT: CONFORM TO CISC/CPMA STANDARD 2-75.
1.6. STRUCTURAL BOLTS, NUTS, AND WASHERS: CONFORM TO ASTM A325M.
1.7. NON-SHRINK GROUT = COMPRESSIVE STRENGTH OF 35 MPa AT 24 HOURS.
1.8. BLOCK: CONFORM TO CAN3-A165 SERIES, MINIMUM COMPRESSIVE STRENGTH = 15.0 MPa (MIN) BASED ON NET AREA.
1.9. MORTAR: CONFORM TO CSA A179 TYPE S FOR LOADBearing WALLS UNLESS NOTED.
1.10. MASONRY GROUT: CONFORM TO CSA A179, 15 MPa MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, 250 mm (10") SLUMP, MAXIMUM AGGREGATE SIZE 10 mm (3/8").
1.11. SAWN LUMBER: SPRUCE-PINE-FIR (SPF), No. 2 GRADE OR BETTER UNLESS NOTED ON DRAWINGS. CONFORM TO CSA O141.
1.12. POST-INSTALLED ANCHORS: PROVIDED BY HILTI (CANADA) CORPORATION. CONTACT HILTI AT (800) 363-4458 FOR PRODUCT RELATED QUESTIONS.

E. EXECUTION

1. FOUNDATIONS

- 1.1. FOUND ALL FOOTINGS (AND UNDERPINNING) ON SOIL CAPABLE OF SUSTAINING A MINIMUM ULTIMATE LIMIT STATES / SERVICE LIMIT STATES BEARING STRESS (ULS / SLS) OF 100 kPa (2,100 psf) / 225 kPa (4,700 psf).
1.2. FOUND ALL FOOTINGS WHICH WILL BE EXPOSED TO FROST ACTION IN THE COMPLETED BUILDING A MINIMUM OF 1200 mm (4'-0") BELOW FINISHED GRADE.
1.3. DO NOT EXCEED A RISE OF 7 IN A RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT FOOTING EXCAVATIONS OR ALONG STEPPED FOOTINGS. FOR STEPPED FOOTINGS, USE STEPS NOT EXCEEDING 600 mm (2'-0") IN HEIGHT AND 1200 mm (4'-0") (MIN) IN LENGTH.
1.4. SOIL BEARING CAPACITY SPECIFIED MUST BE VERIFIED BY THE SOIL ENGINEER PRIOR TO THE PLACING OF FOOTINGS AND ANY NON-COMFORMANCE WITH THE SPECIFIED MINIMUM CAPACITIES MUST BE IMMEDIATELY REPORTED TO THE STRUCTURAL ENGINEERS.

2. SLAB ON GRADE

- 2.1. PLACE SLAB-ON-GRADE ON SUB-GRADE MATERIAL CAPABLE OF SUSTAINING A MINIMUM BEARING CAPACITY OF 25 kPa (500 psf) WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOOTINGS.
2.2. UNLESS OTHERWISE NOTED, PROVIDE IMMEDIATELY UNDER SLABS-ON-GRADE A MINIMUM OF 200 mm (8") OF COMPACTED (MTC) GRANULAR 'B' MATERIAL. COMPACTION TO ACHIEVE A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.

3. CONCRETE

- 3.1. WHEN ATMOSPHERIC TEMPERATURE IS AT OR BELOW 5°C, OR WHEN THERE IS A POSSIBILITY OF IT FALLING TO THAT LIMIT, PLACE CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF CAN/CSA A23.1 "COLD WEATHER CONCRETING" AND ACI 306 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING". WHEN ATMOSPHERIC TEMPERATURE IS AT OR ABOVE 27° C, PLACE CONCRETE IN ACCORDANCE WITH CAN/CSA A23.1 "HOT WEATHER CONCRETING" AND ACI 305 "RECOMMENDED PRACTICES FOR HOT WEATHER CONCRETING".

4. STRUCTURAL STEEL

- 4.1. PAINT ALL STRUCTURAL STEEL TO REQUIREMENTS OF CISC/CPMA 2-75. TOUCH UP ALL FIELD WELDS.
4.2. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH CSA G164.
4.3. ALL WELDS SHALL CONFORM TO CSA STANDARD W59.
4.4. ALL WELDS EXPOSED TO VIEW SHALL BE GROUND SMOOTH.
4.5. ANY ORGANIZATION UNDERTAKING TO WELD UNDER THIS CONTRACT SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF DIVISION 1 OR DIVISION 2.1 OF W47.1.
4.6. DO NOT SPLICE STRUCTURAL STEEL SECTIONS WITHOUT PRIOR APPROVAL OF THE CONSULTANT. ALL SPLICES SHALL DEVELOP THE FULL CAPACITY OF THE SECTION AND ARE TO BE TESTED BY NON DESTRUCTIVE METHODS, BY AN INDEPENDENT INSPECTION AND TESTING COMPANY, AT THE CONTRACTOR'S EXPENSE.
4.7. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS. CONFIRM COMPATIBILITY OF FIREPROOFING MATERIAL WITH STEEL PAINT.

5. MASONRY

- 5.1. PROVIDE A MINIMUM LENGTH OF 200 mm (8") OF 100% SOLID MASONRY UNITS FOR BEARING OF STEEL, CONCRETE OR REINFORCED MASONRY LINTELS.
5.2. SUPPLY AND PLACE REINFORCEMENT AND CONCRETE FOR REINFORCED MASONRY LINTELS IN ACCORDANCE WITH TYPICAL DETAILS SHOWN.
5.3. FOR THE PURPOSE OF DETERMINING THE REQUIRED REINFORCING FOR LOAD-BEARING AND NON-LOAD-BEARING MASONRY WALLS THE SEISMIC HAZARD INDEX IEFASA(0.2) = XXXXX. REFER TO TYPICAL DETAILS FOR REINFORCING REQUIREMENTS.

6. POST-INSTALLED ANCHORS

- 6.1. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
6.2. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

7. ALTERATIONS AND/OR CONNECTIONS TO EXISTING STRUCTURE

- 7.1. INSPECT THE EXISTING BUILDING AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS.
7.2. MAKE GOOD THE EXISTING WORK.

F. QUALITY CONTROL

1. GENERAL

- 1.1. IMPLEMENT A SYSTEM OF QUALITY CONTROL TO ENSURE THAT THE MINIMUM STANDARDS SPECIFIED HEREIN ARE ATTAINED.
1.2. BRING TO THE ATTENTION OF THE CONSULTANT ANY DEFECTS IN THE WORK OR DEPARTURES FROM THE CONTRACT DOCUMENTS, WHICH MAY OCCUR DURING CONSTRUCTION. THE CONSULTANT WILL DECIDE UPON CORRECTIVE ACTION AND GIVE RECOMMENDATIONS IN WRITING.
1.3. THE CONSULTANT'S GENERAL REVIEW DURING CONSTRUCTION AND INSPECTION AND TESTING BY INDEPENDENT INSPECTION AND TESTING AGENCIES REPORTING TO THE CONSULTANT ARE BOTH UNDERTAKEN TO INFORM THE OWNER / CLIENT OF THE CONTRACTOR'S PERFORMANCE AND SHALL IN NO WAY AUGMENT THE CONTRACTOR'S QUALITY CONTROL OR RELIEVE THE CONTRACTOR OF CONTRACTUAL RESPONSIBILITY.

2. NOTIFICATION

- 2.1. PRIOR TO COMMENCING SIGNIFICANT SEGMENTS OF THE WORK, GIVE THE CONSULTANT AND INDEPENDENT INSPECTION AND TESTING COMPANIES APPROPRIATE NOTIFICATION (MINIMUM 24 HOURS) SO AS TO AFFORD THEM REASONABLE OPPORTUNITY TO REVIEW THE WORK. FAILURE TO MEET THIS REQUIREMENT MAY BE CAUSE FOR THE CONSULTANT TO CLASSIFY THE WORK AS DEFECTIVE.

3. INSPECTION AND TESTING

- 3.1. AN INDEPENDENT INSPECTION AND TESTING COMPANY SHALL MAKE INSPECTIONS OR PERFORM TESTS AS THE CONSULTANT DIRECTS. THE INDEPENDENT INSPECTION AND TESTING COMPANIES SHALL BE RESPONSIBLE ONLY TO THE CONSULTANT AND SHALL MAKE ONLY SUCH INSPECTIONS OR TESTS AS THE CONSULTANT MAY DIRECT.

- 3.2. THE FOLLOWING ITEMS REQUIRE TESTING AND/OR INSPECTION BY A CERTIFIED, INDEPENDENT INSPECTION AND TESTING COMPANY UNLESS OTHERWISE NOTED. THE TESTING FIRM SHALL SUBMIT COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE CONSULTANT FOR REVIEW:

Table with 3 columns: ITEM, REQUIRED, COMMENTS. Row for SOIL BEARING CAPACITY.

4. DEFECTIVE MATERIALS AND WORK

- 4.1. WHERE EVIDENCE EXISTS THAT DEFECTIVE WORK HAS OCCURRED OR THAT WORK HAS BEEN CARRIED OUT INCORPORATING DEFECTIVE MATERIALS, THE CONSULTANT MAY HAVE TESTS, INSPECTIONS OR SURVEYS PERFORMED, ANALYTICAL CALCULATIONS OF STRUCTURAL STRENGTH MADE, AND THE LIKE, IN ORDER TO HELP DETERMINE WHETHER THE WORK MUST BE CORRECTED OR REPLACED. TESTS, INSPECTIONS OR SURVEYS OR CALCULATIONS CARRIED OUT UNDER THESE CIRCUMSTANCES WILL BE MADE AT THE CONTRACTOR'S EXPENSE, REGARDLESS OF THEIR RESULTS, WHICH MAY BE SUCH THAT, IN THE CONSULTANT'S OPINION, THE WORK MAY BE ACCEPTABLE.

- 4.2. ALL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 BUILDING CODE (ONTARIO REGULATION 332/12), EXCEPT WHERE THIS WOULD, IN THE CONSULTANT'S OPINION, CAUSE UNDUE DELAY OR GIVE RESULTS NOT REPRESENTATIVE OF THE REJECTED MATERIAL IN PLACE. IN THIS CASE, THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARDS GIVEN BY THE CONSULTANT.

- 4.3. MATERIALS OR WORK, WHICH FAIL TO MEET SPECIFIED REQUIREMENTS, MAY BE REJECTED BY THE CONSULTANT WHENEVER FOUND AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK REGARDLESS OF PREVIOUS INSPECTION. IF REJECTED, DEFECTIVE MATERIALS OR WORK SHALL BE PROMPTLY REMOVED AND REPLACED OR REPAIRED TO THE SATISFACTION OF THE CONSULTANT, AT NO EXPENSE TO THE OWNER.



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Table with 3 columns: No., Revision Description, YYYY-MM-DD. Rows for ISSUED FOR PERMIT (2024-02-08) and ISSUED FOR TENDER (2024-08-07).

North

Project Title:

PARK WASHROOM RENOVATION

1873 BLOOR STREET WEST, TORONTO, ON

LIST OF STRUCTURAL DRAWINGS

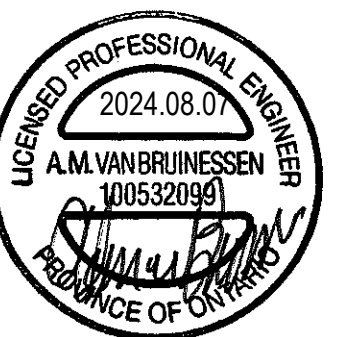
Table with 2 columns: SHEET No., SHEET TITLE. Lists sheets S1.1 to S4.1 including GENERAL NOTES, TYPICAL DETAILS, FOUNDATION PLAN, ROOF FRAMING PLAN, SECTIONS AND DETAILS.

Table with 2 columns: Field (Designed by, Drawn by, Sheet Title) and Value (STB, AQV, etc.).

GENERAL NOTES

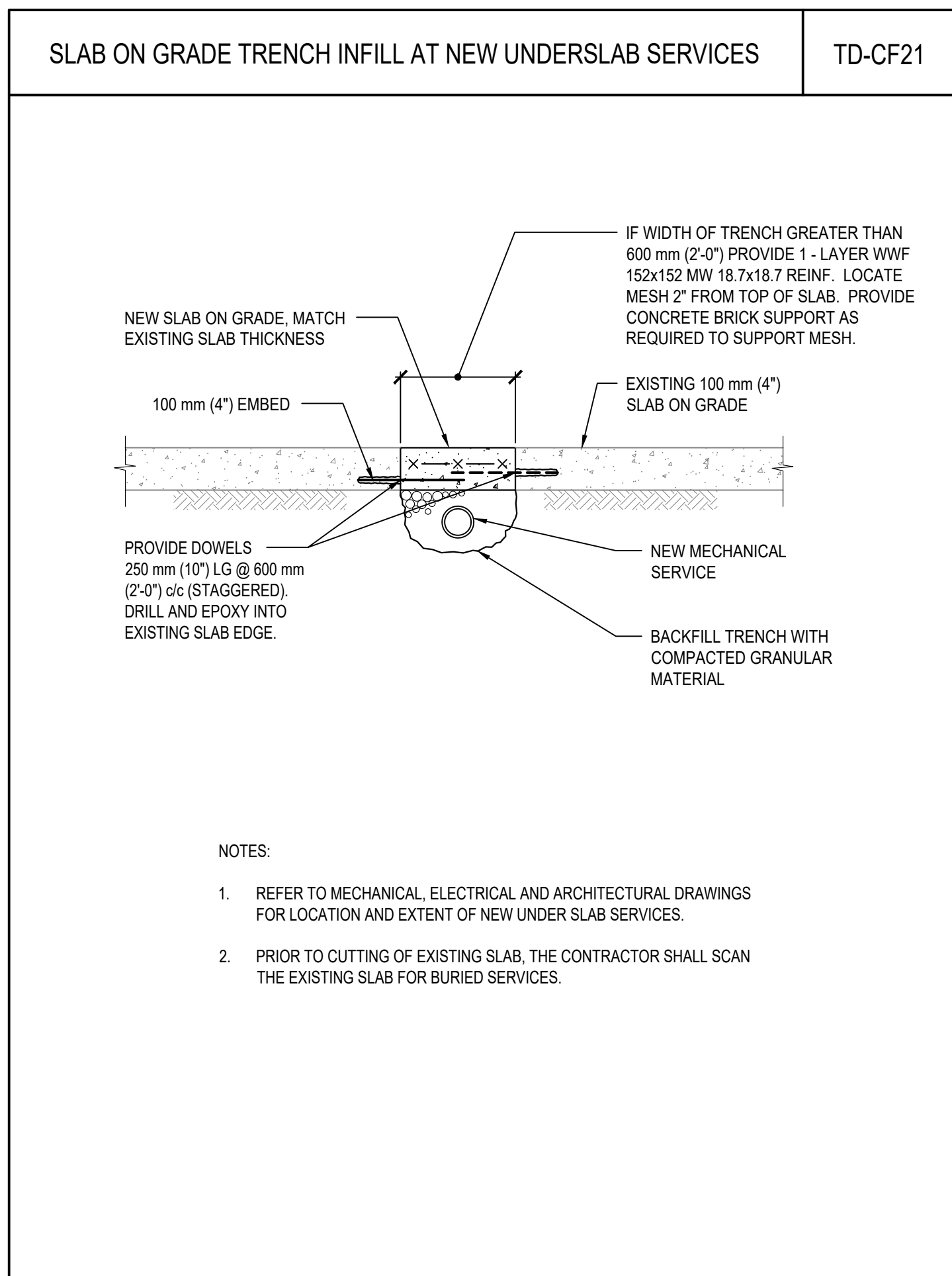
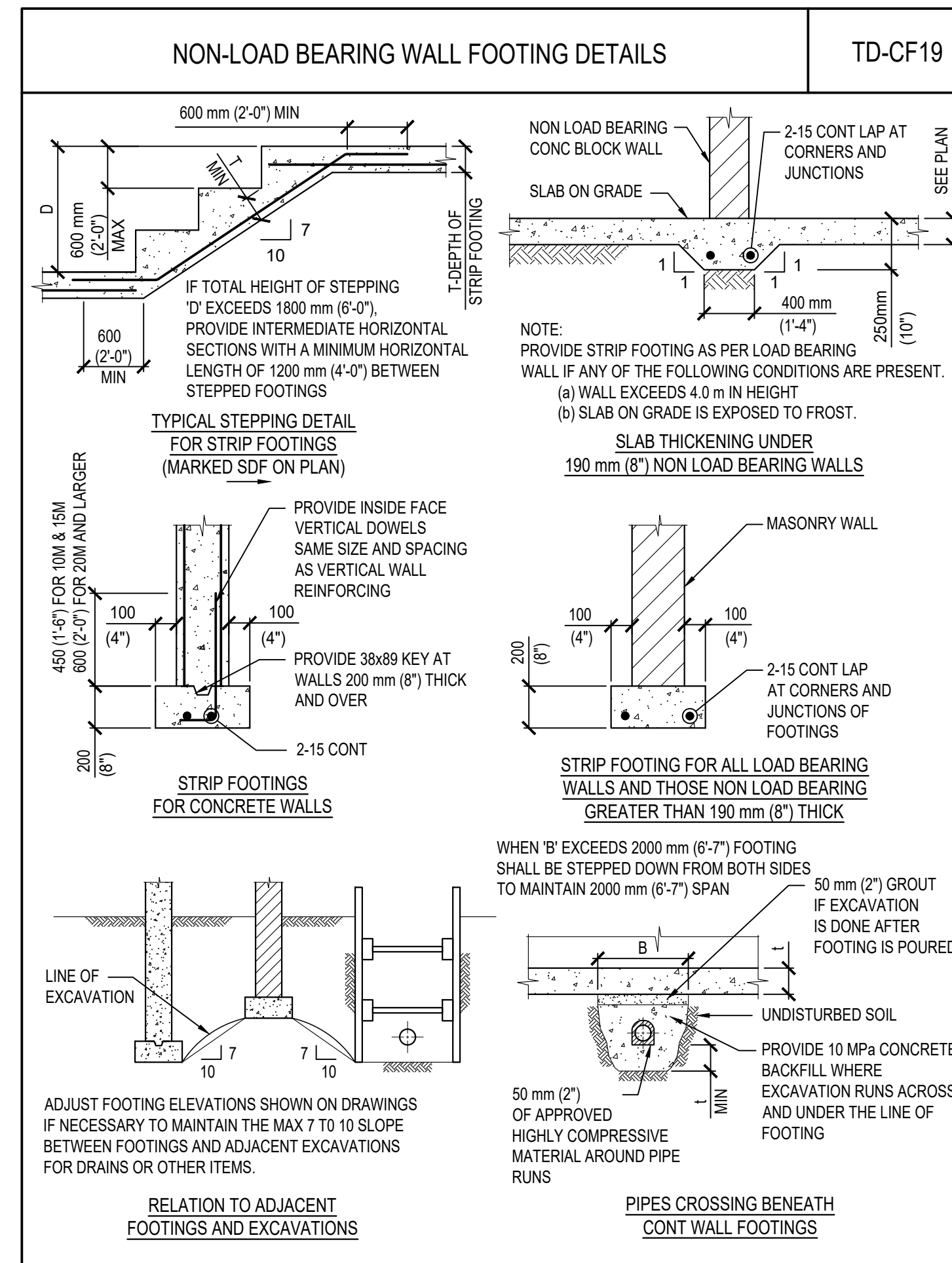
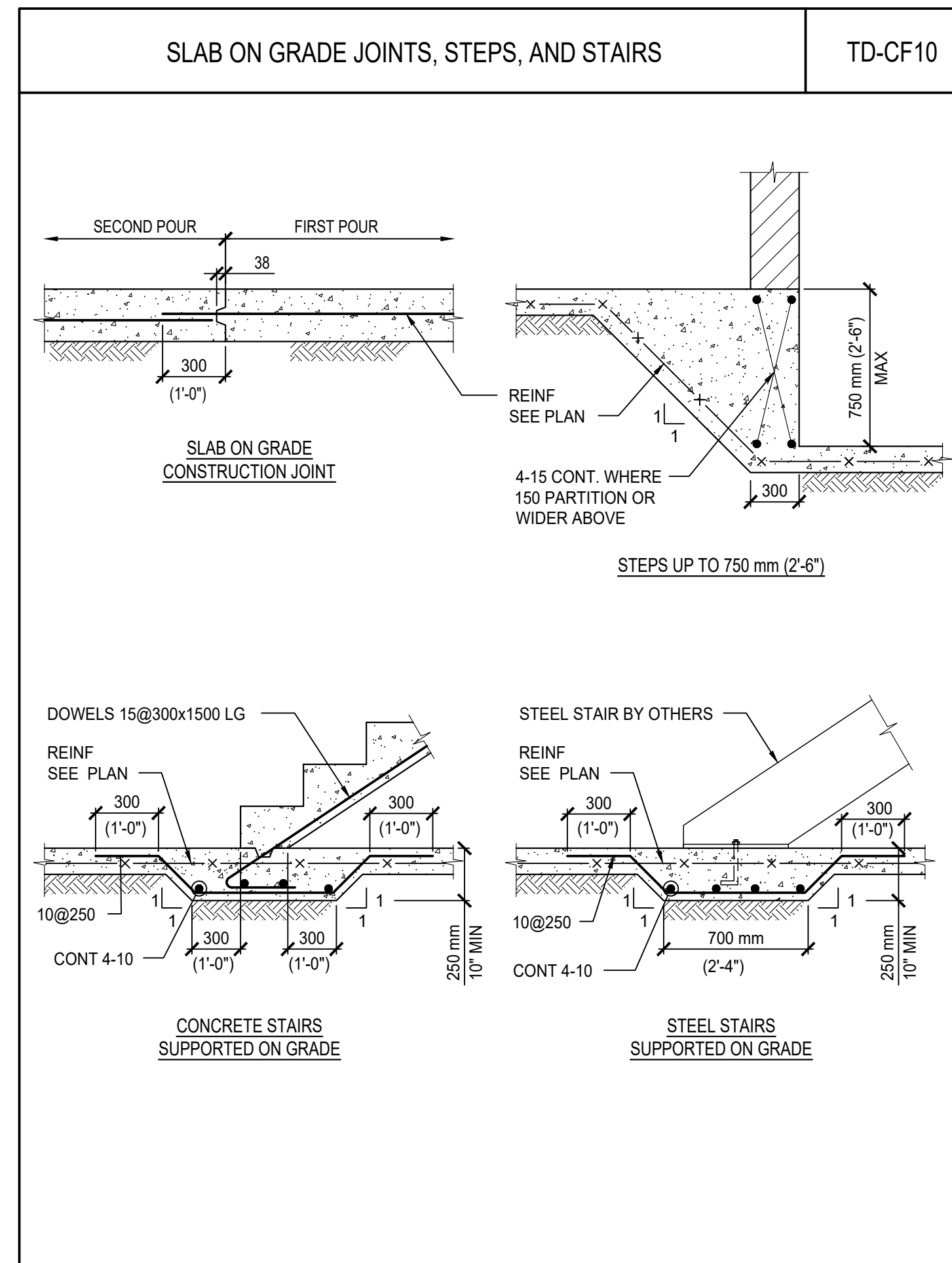
Sheet Number

S1.1



No.	Revision Description	YYYY-MM-DD
1	ISSUED FOR PERMIT	2024 - 02 - 08
2	ISSUED FOR TENDER	2024 - 08 - 07

STRUCTURAL ABBREVIATIONS				TD-G01
A BOLT	ANCHOR BOLT	f _c	28 DAYS CONCRETE COMPRESSIVE STRENGTH	OF OUTSIDE FACE OPENING
ADJ	ADJUSTABLE	FDN	FOUNDATION	OWSJS
AF	ABOVE FINISHED FLOOR	FF	FAR FACE	PI AXIAL FORCE (FACTORED)
AIFB	ASPHALT IMPREGNATED FIBREBOARD	FIN	FINISHED	PC PRECAST
ALT	ALTERNATE	FL	FLOOR	PL PLATE
ARCH	ARCHITECTURAL	ft	FOOT, FEET	PLF POUNDS PER LINEAR FOOT
ASL	ADDITIONAL ACCUMULATED SNOW LOAD	FTG	FOOTING	PROJ PROJECTION
@	AT	F _y	YIELD STRENGTH	PSF POUNDS PER SQUARE FOOT
B, BOTT	BOTTOM	GA	GALVE	PT PRESSURE TREATED
B/B	BACK TO BACK	GALV	GALVANIZED	RD ROOF DRAIN
BEW	BOTTOM EACH WAY	GEN	GENERAL	RF REACTION (FACTORED)
BH	BOREHOLE	HEF	HORIZONTAL EACH FACE	RAD RADIUS
BLL	BOTTOM LOWER LAYER	HF	HORIZONTAL FORCE (FACTORED)	REIN REINFORCED REINFORCEMENT
BLDG	BUILDING	HH	HOOK EACH END	REF REFERENCE
BM	BEAM	HF	HORIZONTAL INSIDE FACE	RE RIGHT END
BPL	BEARING/BASE PLATE	HOF	HORIZONTAL OUTSIDE FACE	REQD REQUIRED
BRDG	BRIDGING	H, HORIZ	HORIZONTAL	REV REVISION, REVISED
BUL	BOTTOM UPPER LAYER	HSC	HORIZONTALLY SLOTTED CONNECTION	RHW REINFORCED WITH
c	CAMBER	HSS	HOLLOW STEEL SECTION	SAD SEE ARCHITECTURAL DRAWINGS
c/c, o/c	CENTRE TO CENTRE	IF	INSIDE FACE	SD STEP DOWN FOOTING
CA	COLUMN ABOVE	IN	INCHES	SECT SECTION
CB	COLUMN BELOW	INT	INTERIOR	SIM SIMILAR
CANT	CANTILEVER	JT	JOINT	SL SLAB
CI	COMPRESSIVE FORCE (FACTORED)	K	KIP, 1000 LBS	SOG SLAB ON GRADE
CJ	CONTROL JOINT	K-ft	KIP FEET	SPDD STANDARD PROCTOR DRY DENSITY
CL	CENTRELINE	kg	KILOGRAM(S)	ST STRAIGHT
COL	COLUMN	KLF	KIPS PER LINEAR FOOT	STIFF STIFFENER
COMP	COMPOSITE	KN	KILONEWTN	STIR STIRRUP
CONC	CONCRETE	KN-m	KILONEWTN METRE	STRUCT STRUCTURAL
CONT	CONTINUOUS	KNm	KILONEWTN PER METRE	STD STANDARD
CW	COMPLETE WITH	kPa	KILOPASCAL	SQ SQUARE
DEMO	DEMOLITION	KSF	KIPS PER SQUARED FOOT	T TOP
DET	DETAIL	KSI	KIPS PER SQUARED INCH	TI TENSILE FORCE (FACTORED)
DIA, Ø	DIAMETER	L	LEFT END	TT TEMPORARY, TEMPERATURE
DIAG	DIAGONAL	LE	LEFT END	TEW TOP EACH WAY
DIM	DIMENSION	LG	LONG	TJ TIE JOIST
DJ	DEAD LOAD	LL	LIVE LOAD, LOWER LAYER	TLL TOP LOWER LAYER
DP	DEEP	LLH	LONG LEG HORIZONTAL	TMF TORSIONAL MOMENT (FACTORED)
DWG(S)	DRAWING(S)	LLV	LONG LEG VERTICAL	TOP TOP OF DECK
DWLS(S)	DOWEL(S)	m	METRE	TOS TOP OF STEEL/SLAB
DN	DOWN	MC	MOMENT CONNECTION (FULL MOMENT UNLESS NOTED)	TRANS TRANSVERSE
EA	EACH	M	MOMENT (FACTORED)	TUL TOP UPPER LAYER
EE	EACH END	Mf	MOMENT (FACTORED)	TYP TYPICAL
EF	EACH FACE	ML	MIDDLE LAYER	UL UPPER LAYER
ELEC	ELECTRICAL	mm	MILLIMETRE	UN UNLESS NOTED OTHERWISE
EL	ELEVATION	Mpa	MEGAPASCAL	US UNDERSIDE
ELEV	ELEVATOR	Mpa	MEGAPASCAL	V, VERT VERTICAL
EMBED	EMBEDMENT	Mm	BENDING MOMENT	VF VERTICAL SHEAR FORCE (FACTORED)
EQ	EQUAL	Mm	BENDING MOMENT	VEF VERTICAL EACH FACE
ES	EACH SIDE	My	BENDING MOMENT	VIF VERTICAL INSIDE FACE
EX, EXIST	EXISTING	mm	MILLIMETRE	VOF VERTICAL OUTSIDE FACE
EJ, EXP, JT	EXPANSION JOINT	NIC	NOT IN CONTRACT	VSC VERTICALLY SLOTTED CONNECTION
E-W	EAST WEST	N-S	NORTH-SOUTH	W WIDE FLANGE BEAM
EW	EACH WAY	NTS	NOT TO SCALE	WT WEIGHT, STRUCTURAL TEE
EXT	EXTERIOR			WWF WELDED WIRE FABRIC OR WELDED WIDE FLANGE WORKING POINT



STANDARD REINFORCING DEVELOPMENT & SPLICE LENGTHS				TD-CM1			
TABLE A BLACK BAR TENSION DEVELOPMENT LENGTH & TENSION LAP SPLICE LENGTHS CLASS "B", f _y = 400 MPa							
f _c (MPa)	BAR SIZE	10	15	20	25	30	35
20	DEVELOPMENT LENGTH	560	840	1120	1750	2100	2450
25		500	750	1000	1560	1880	2190
30	LAP SPLICE & DEVELOPMENT LENGTH	460	690	920	1430	1710	2000
35		430	640	850	1320	1590	1850
40	LAP SPLICE & DEVELOPMENT LENGTH	400	600	790	1240	1480	1730
45		390	560	750	1170	1400	1630
50	LAP SPLICE & DEVELOPMENT LENGTH	390	530	710	1110	1330	1550
55		390	510	680	1060	1270	1480
60	LAP SPLICE & DEVELOPMENT LENGTH	390	490	650	1010	1210	1410
64 TO 80		390	470	630	980	1170	1370

TABLE B BLACK BAR CLASS "A" TENSION DEVELOPMENT LENGTH							
f _c (MPa)	BAR SIZE	10	15	20	25	30	35
20	DEVELOPMENT LENGTH	330	490	650	1010	1210	1410
25		300	440	580	900	1080	1260
30	LAP SPLICE & DEVELOPMENT LENGTH	300	400	530	830	990	1160
35		300	370	490	770	920	1070
40	LAP SPLICE & DEVELOPMENT LENGTH	300	350	460	720	860	1000
45		300	330	430	680	810	940
50	LAP SPLICE & DEVELOPMENT LENGTH	300	310	410	640	770	900
55		300	300	390	610	730	850
60	LAP SPLICE & DEVELOPMENT LENGTH	300	300	380	590	700	820
64 TO 80		300	300	360	570	680	790

TABLE C BLACK BAR MINIMUM TENSION EMBEDMENT WITH STANDARD HOOKS f _y = 400 MPa							
f _c (MPa)	BAR SIZE	10	15	20	25	30	35
20	DEVELOPMENT LENGTH	230	340	450	560	680	790
25		200	300	400	500	600	700
30	LAP SPLICE & DEVELOPMENT LENGTH	190	280	370	460	550	640
35		170	260	340	430	510	600
40	LAP SPLICE & DEVELOPMENT LENGTH	160	240	320	400	480	560
45		150	230	300	380	450	530
50	LAP SPLICE & DEVELOPMENT LENGTH	150	220	290	360	430	500
55		150	210	270	340	410	480
60	LAP SPLICE & DEVELOPMENT LENGTH	150	200	260	330	390	460
64 TO 80		150	190	250	320	380	440

TABLE D BLACK BAR COMPRESSION LAP SPLICE AND DEVELOPMENT LENGTHS f _y = 400 MPa							
f _c (MPa)	BAR SIZE	10	15	20	25	30	35
20	LAP SPLICE	300	440	590	730	880	1030
25		220	330	430	540	650	760
30	LAP SPLICE	300	440	590	730	880	1030
35		200	290	390	480	580	680
40	LAP SPLICE	300	440	590	730	880	1030
45		200	270	360	440	530	620
50	LAP SPLICE	300	440	590	730	880	1030
55		200	250	330	410	490	570
60	LAP SPLICE	300	440	590	730	880	1030
64 TO 80		200	230	310	380	460	540
45	DEVELOPMENT LENGTH	300	440	590	730	880	1030
50		200	220	290	360	430	510
55	LAP SPLICE	300	440	590	730	880	1030
60		200	210	280	340	410	480
64 TO 80	LAP SPLICE	300	440	590	730	880	1030
60		200	200	260	330	390	460
60	LAP SPLICE	300	440	590	730	880	1030
64 TO 80		200	200	250	310	380	440
64 TO 80	LAP SPLICE	300	440	590	730	880	1030
200		200	240	300	360	420	

STANDARD REINFORCING DEVELOPMENT & SPLICE LENGTHS				TD-CM2			
TABLE A BLACK BAR TENSION DEVELOPMENT LENGTH & TENSION LAP SPLICE LENGTHS CLASS "B", f _y = 400 MPa							
f _c (MPa)	BAR SIZE	10	15	20	25	30	35
20	DEVELOPMENT LENGTH	420	630	840	1310	1570	1840
25		380	570	750	1170	1410	1640
30	LAP SPLICE & DEVELOPMENT LENGTH	350	520	690	1070	1290	1500
35		320	480	640	990	1190	1390
40	LAP SPLICE & DEVELOPMENT LENGTH	300	450	600	930	1110	1300
45		300	420	560	880	1050	1230
50	LAP SPLICE & DEVELOPMENT LENGTH	300	400	530	830	1000	1160
55		300	380	510	790	950	1110
60	LAP SPLICE & DEVELOPMENT LENGTH	300	370	490	760	910	1060
64 TO 80		300	360	470	740	880	1030

TABLE B BLACK BAR TENSION DEVELOPMENT LENGTH & TENSION LAP SPLICE LENGTHS CLASS "B", TOP BARS, f _y = 400 MPa							
f _c (MPa)	BAR SIZE	10	15	20	25	30	35
20	DEVELOPMENT LENGTH	550	820	1090	1710	2050	2390
25		490	740	980	1530	1830	2130
30	LAP SPLICE & DEVELOPMENT LENGTH	450	670	890	1390	1670	1950
35		420	620	830	1290	1550	1800
40	LAP SPLICE & DEVELOPMENT LENGTH	390	580	770	1210	1450	1690
45		390	550	730	1140	1370	1590
50	LAP SPLICE & DEVELOPMENT LENGTH	390	520	690	1080	1300	1510
55		390	500	660	1030	1240	1440
60	LAP SPLICE & DEVELOPMENT LENGTH	390	480	630	990	1180	1380
64 TO 80		390	460	610	960	1150	1340

TABLE C BLACK BAR TENSION DEVELOPMENT LENGTH & TENSION LAP SPLICE LENGTHS CLASS "B", TOP BARS, f _y = 400 MPa							
f _c (MPa)	BAR SIZE	10	15	20	25	30	35
20	DEVELOPMENT LENGTH	730	1090	1460	2270	2730	3180
25		650	980	1300	2030	2440	2840
30	LAP SPLICE & DEVELOPMENT LENGTH	600	890	1190	1860	2230	2600
35		550	830	1100	1720	2060	2400
40	LAP SPLICE & DEVELOPMENT LENGTH	520	770	1030	1610	1930	2250
45		490	730	970	1520	1820	2120
50	LAP SPLICE & DEVELOPMENT LENGTH	460	690	920	1440	1730	2010
55		440	660	880	1370	1650	1920
60	LAP SPLICE & DEVELOPMENT LENGTH	420	630	840	1310	1580	1840
64 TO 80		410	610	820	1270	1530	1780

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Project Title:

PARK WASHROOM RENOVATION

1873 BLOOR STREET WEST, TORONTO, ON

Designed by: STB Scale: NTS

Drawn by: AQV Date: MAY 29, 2024

Sheet Title

TYPICAL DETAILS

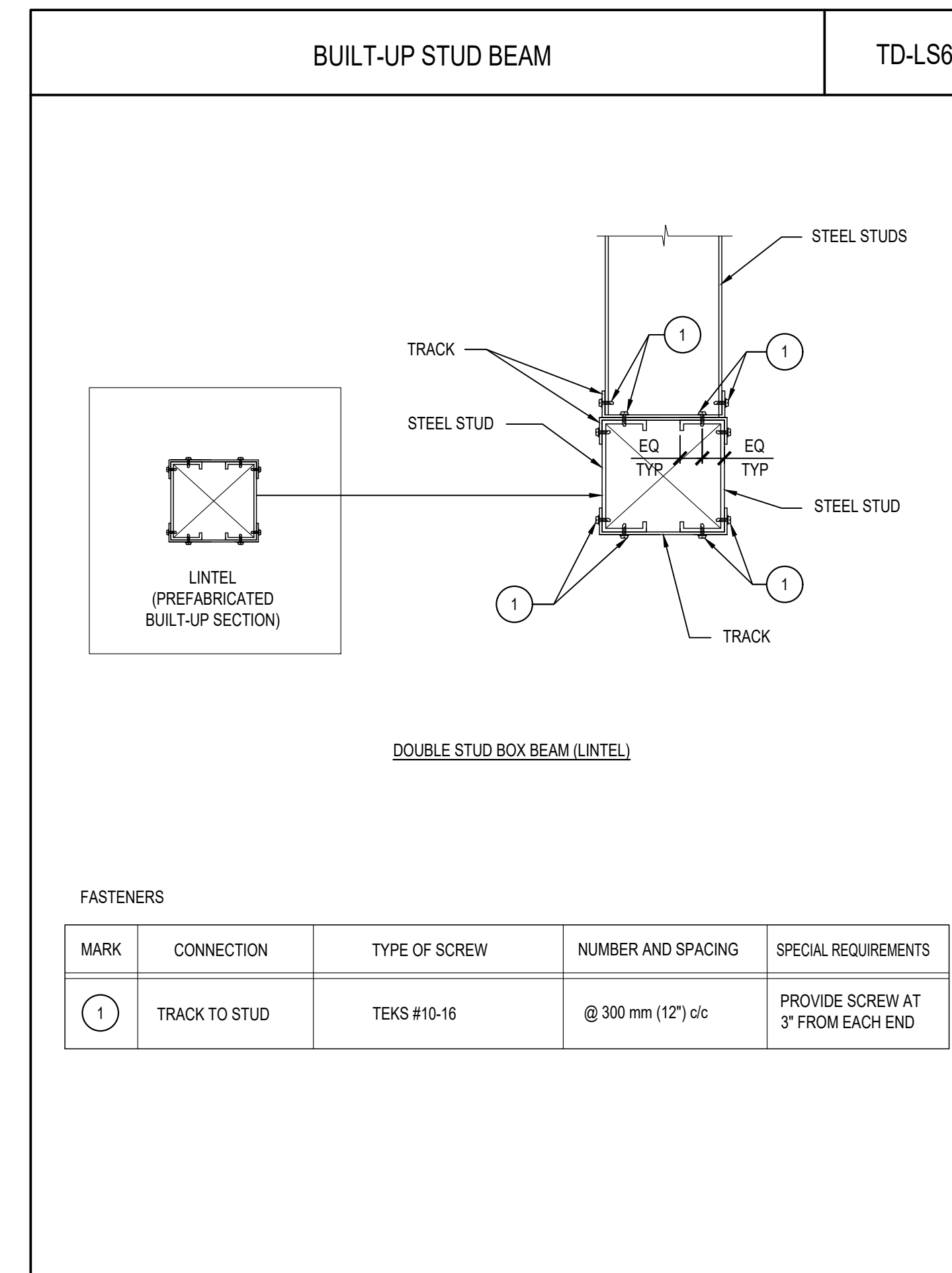
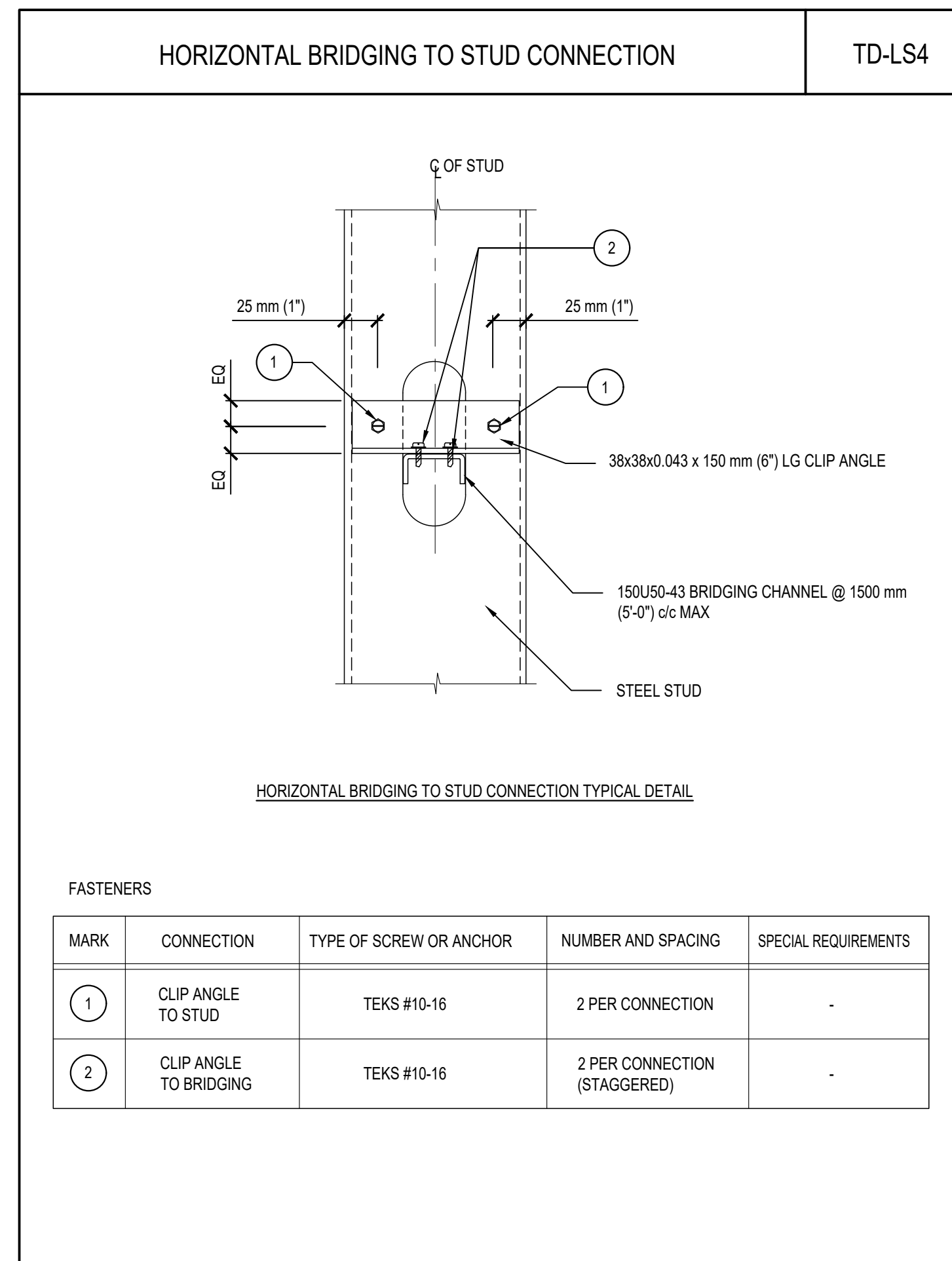
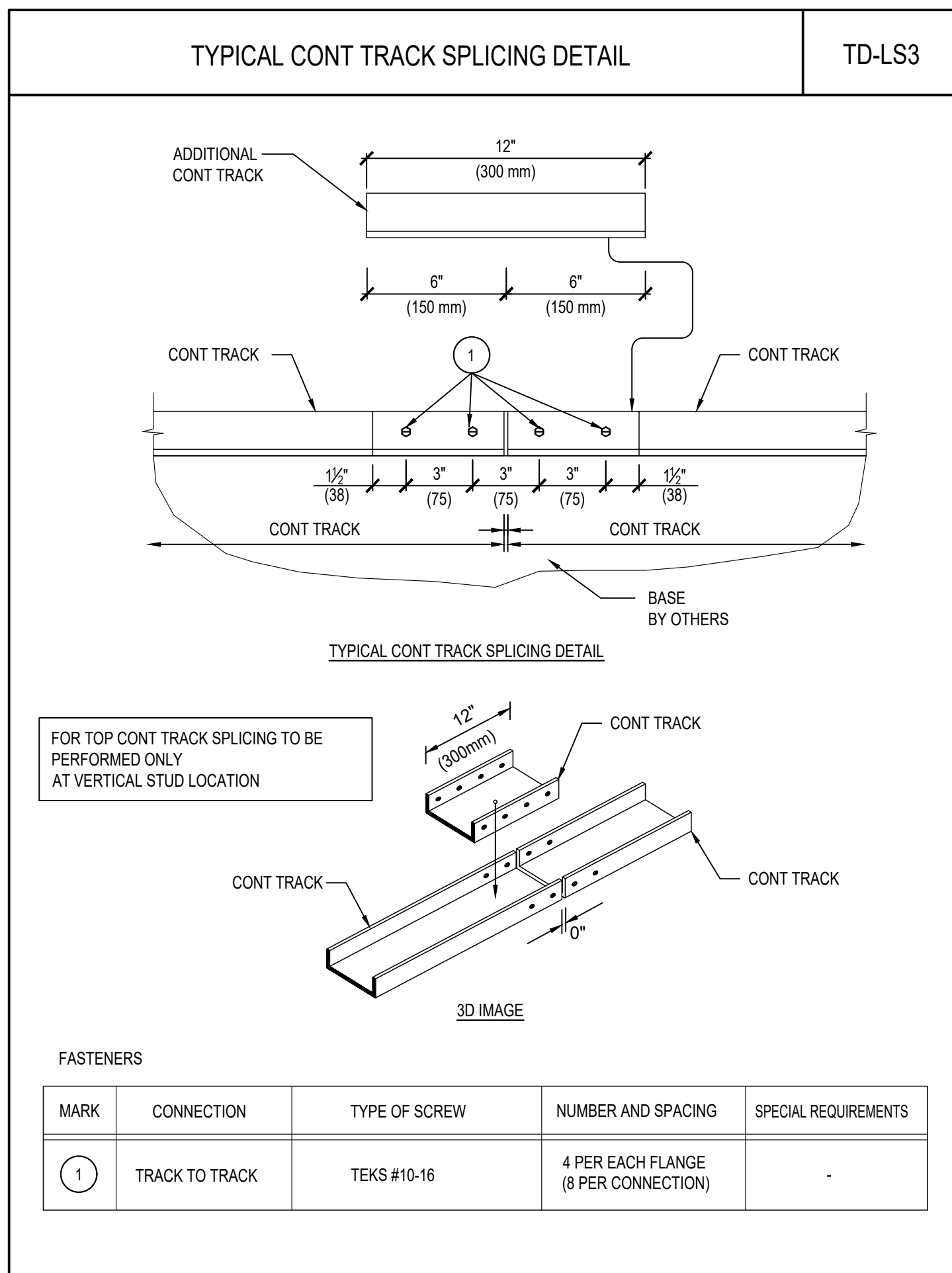
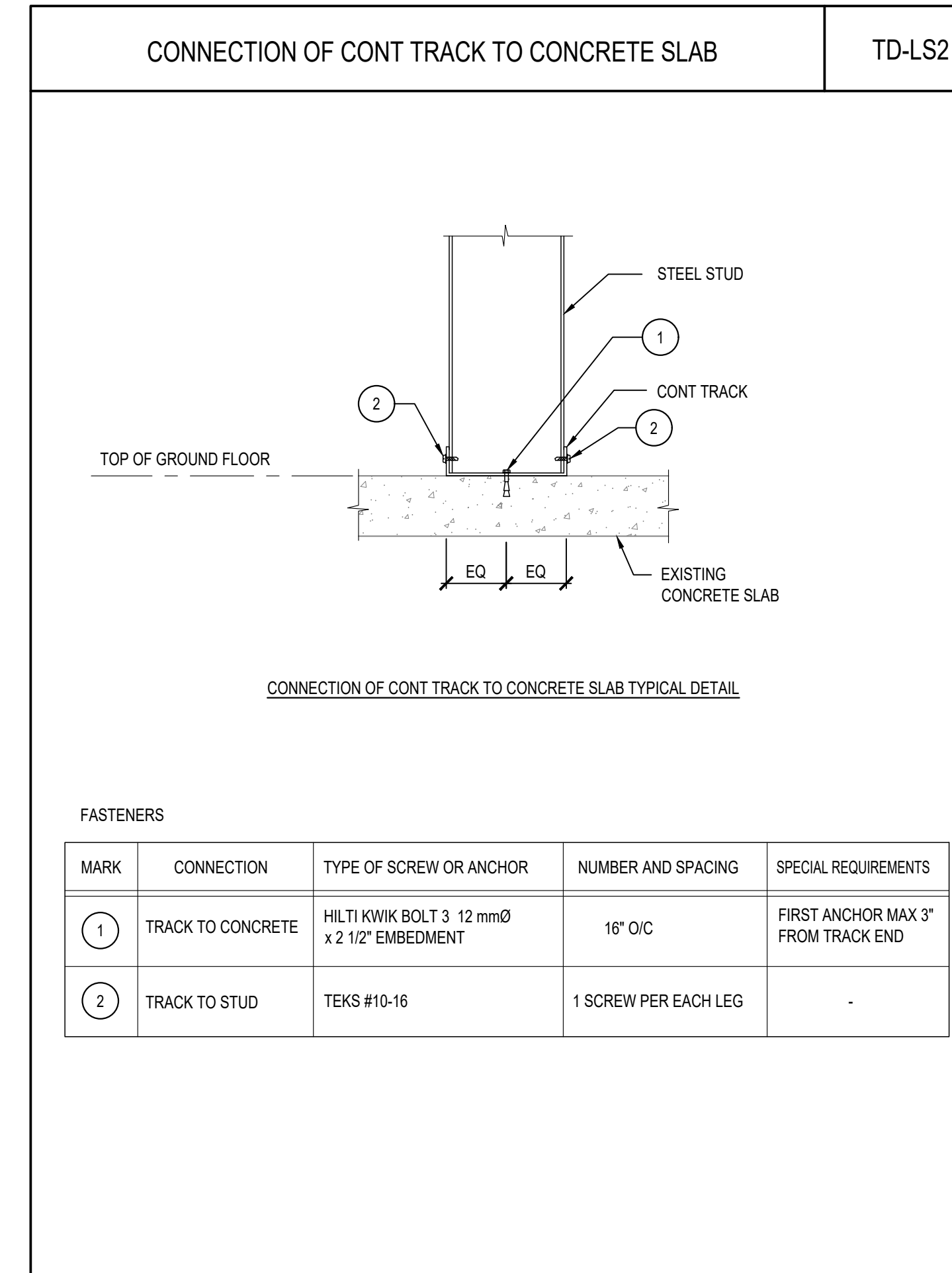
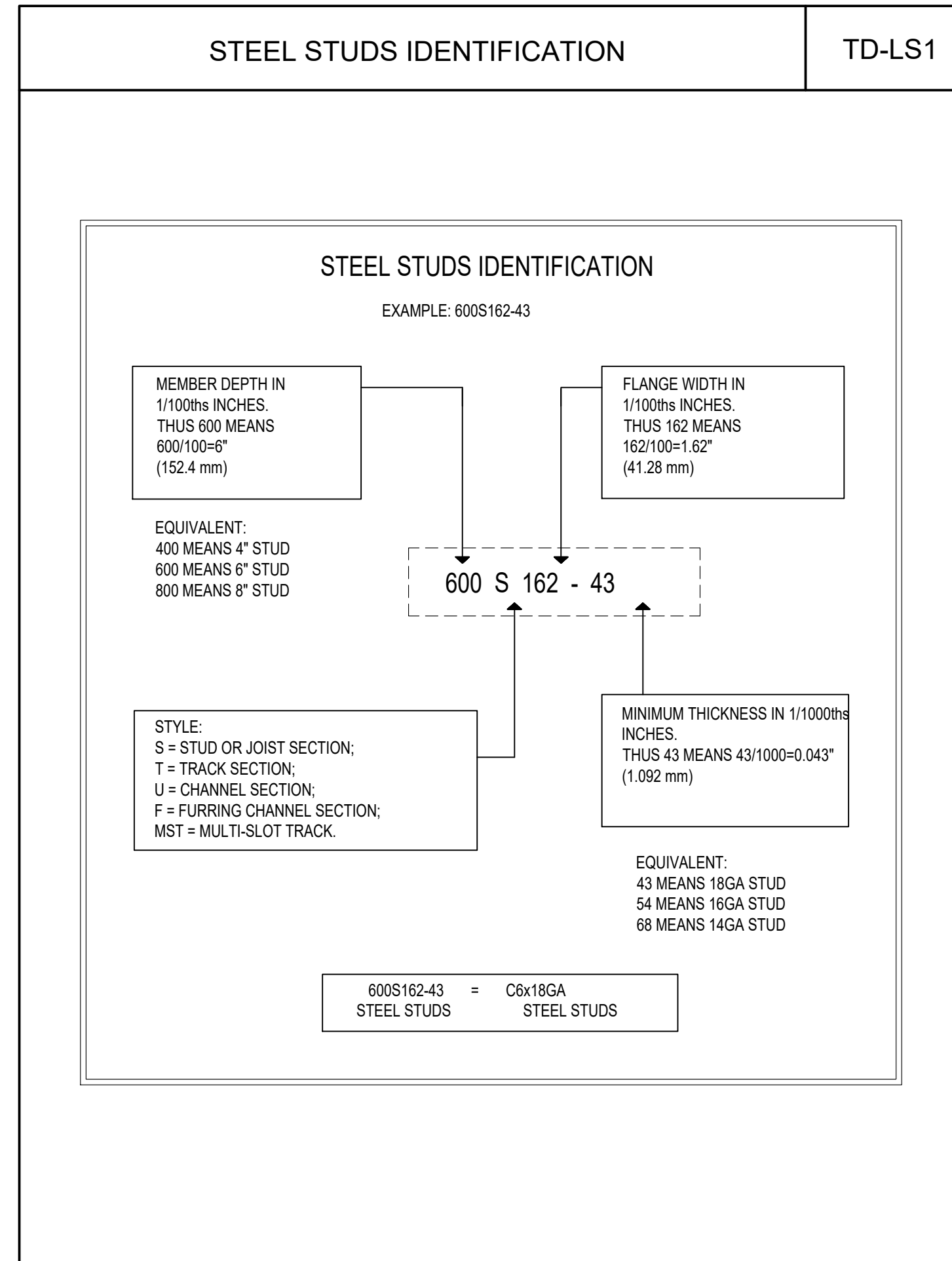
Sheet Number



No.	Revision Description	YYYY-MM-DD
1	ISSUED FOR PERMIT	2024 - 02 - 08
2	ISSUED FOR TENDER	2024 - 08 - 07

STANDARD REINFORCING DEVELOPMENT & SPLICE LENGTHS							TD-CM3
fy = 500 MPa							
TABLE A BLACK BAR TENSION DEVELOPMENT LENGTH & TENSION LAP SPLICE LENGTHS CLASS "B", fy = 500 MPa				TABLE B BLACK BAR TENSION DEVELOPMENT LENGTH & TENSION LAP SPLICE LENGTHS CLASS "B", TOP BARS, fy = 500 MPa			
fy (MPa)	BAR SIZE	10	15	20	25	30	35
20		700	1050	1400	1750	2100	2450
25		630	940	1250	1560	1880	2190
30		570	860	1140	1430	1710	2000
35		530	800	1060	1320	1590	1850
40		500	740	990	1240	1480	1730
45		470	700	940	1170	1400	1630
50		450	670	890	1110	1330	1550
55		430	640	850	1060	1270	1480
60		410	610	810	1010	1210	1410
64 TO 80		390	590	780	980	1170	1370

NOTE:
1. FOR ALL BUNDLED BARS, INCREASE LENGTH OF LAP SPLICE OR DEVELOPMENT LENGTH BY 10% FOR A TWO-BAR BUNDLE, 20% FOR A THREE-BAR BUNDLE AND 33% FOR A FOUR BAR BUNDLE.
2. FOR STAINLESS STEEL, GALVANIZED AND REGULAR REINFORCING STEEL, USE VALUES IN THIS TABLE UNLESS NOTED OTHERWISE.
3. VALUES IN THIS TABLE HAVE BEEN CALCULATED ASSUMING CLEAR COVER > 1.0 DB, CLEAR SPACING NOT LESS THAN 1.4 DB.
4. VALUES ON TABLES ARE CALCULATED ASSUMING NON-EPOXY COATED REINFORCING AND NORMAL-DENSITY CONCRETE.
5. ALL TENSION LAP SPLICES ON THE PROJECT SHALL BE CONSIDERED CLASS "B" UNLESS NOTED OTHERWISE.
6. THE VALUES CALCULATED ON TABLES A & B ARE FOR MEMBERS CONTAINING MINIMUM TIES AND STIRRUPS AS PER CSA CL 11.2.8.2 AND CL 7.6.5, OR FOR SLABS, WALLS SHELLS OR FOLDED PLATES HAVING CLEAR SPACING BETWEEN BARS OF NOT LESS THAN 2.0 DB.



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Project Title:

PARK WASHROOM RENOVATION

1873 BLOOR STREET WEST, TORONTO, ON

Designed by: STB Scale: NTS

Drawn by: AQV Date: MAY 29, 2024

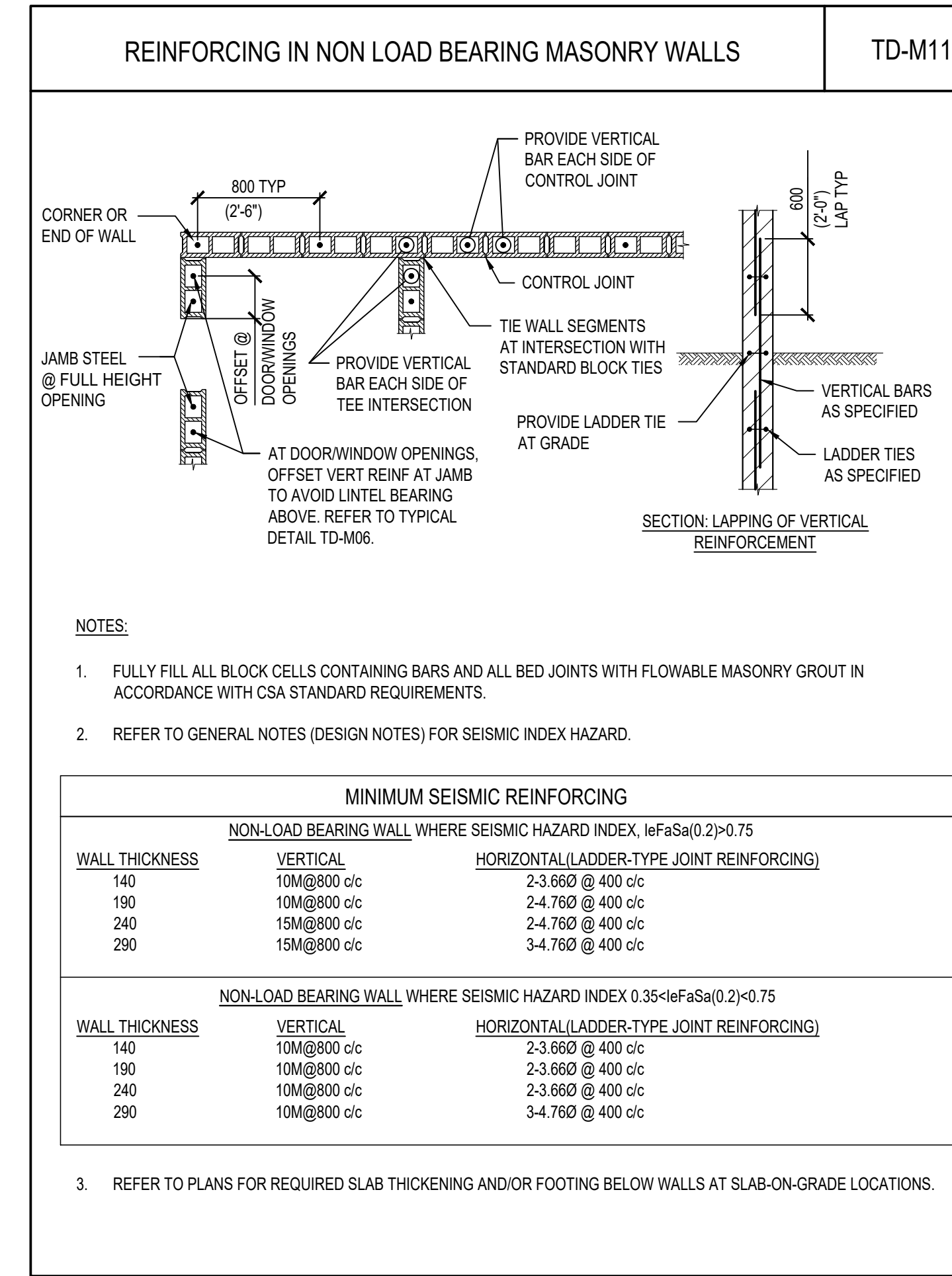
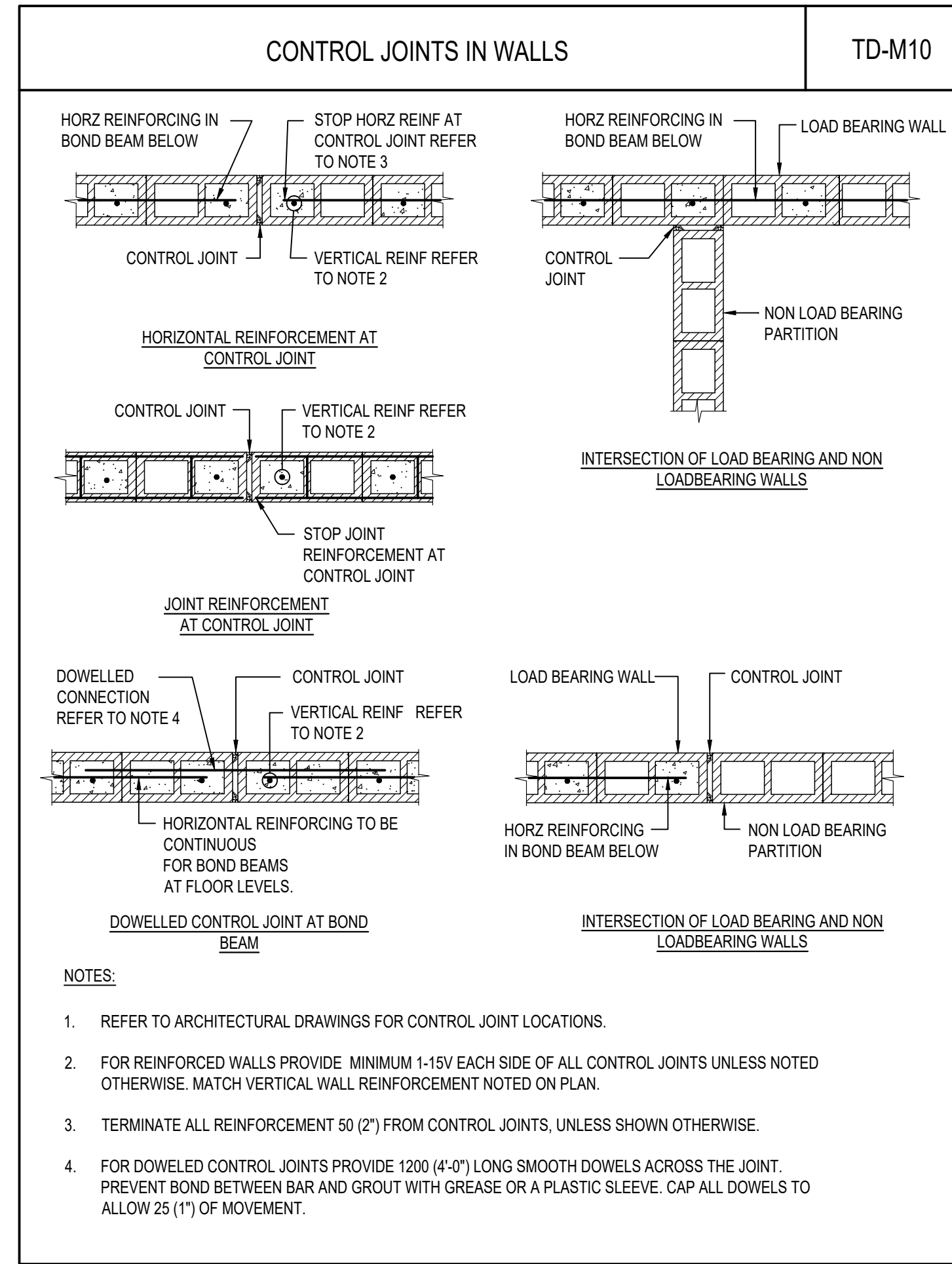
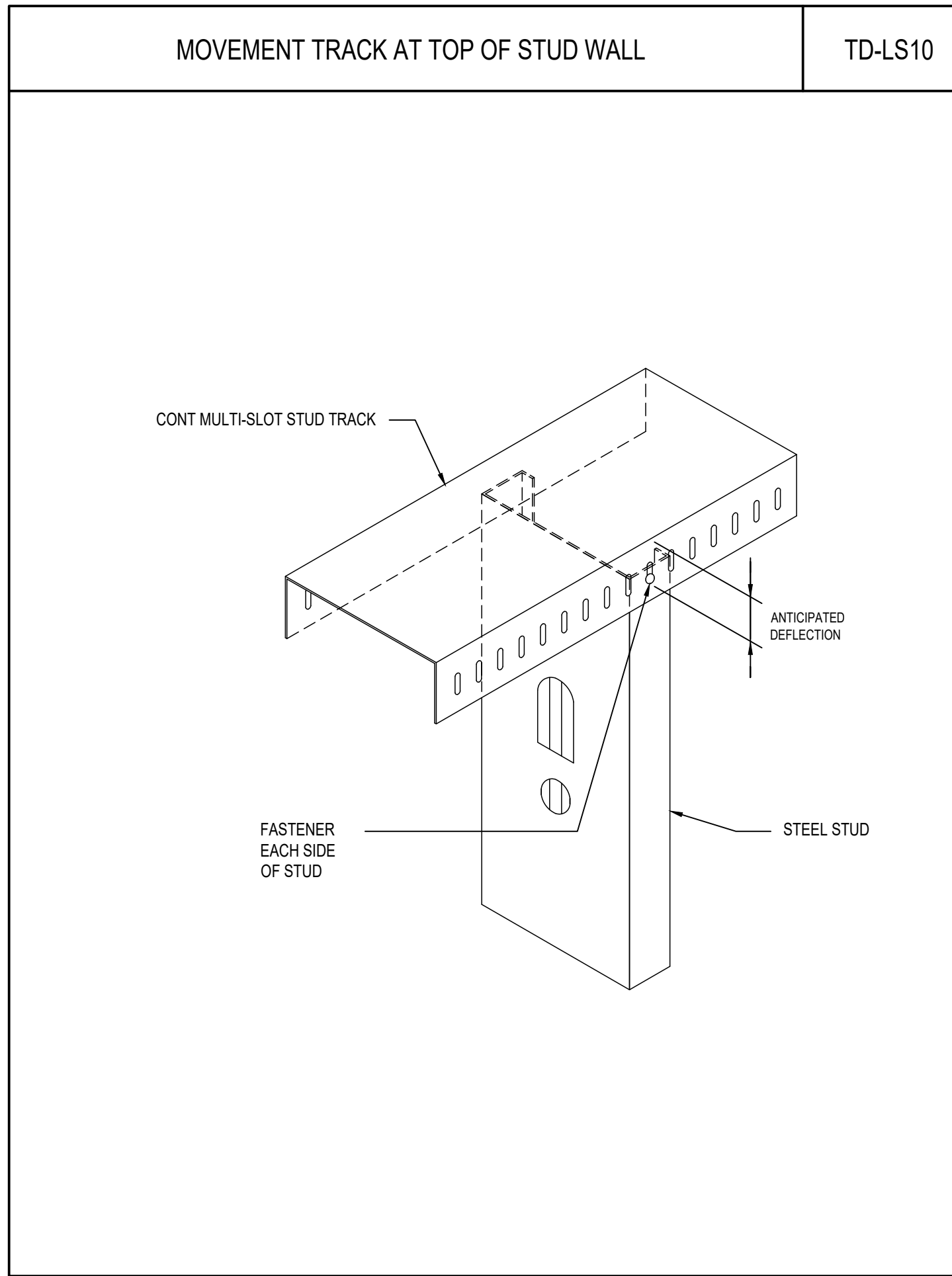
Sheet Title

TYPICAL DETAILS

Sheet Number



No.	Revision Description	YYYY-MM-DD
1	ISSUED FOR PERMIT	2024 - 02 - 08
2	ISSUED FOR TENDER	2024 - 08 - 07



REINFORCEMENT DEVELOPMENT LENGTHS IN MASONRY TD-M14

TABLE 1: TENSION DEVELOPMENT LENGTH (mm)

BAR SIZE	GROUT STRENGTH			
	10 MPa	15 MPa	20 MPa	25 MPa
10M	460	380	330	290
15M	690	560	490	440
20M	920	750	650	580
25M	1430	1170	1010	900
30M	1710	1400	1210	1080

TABLE 2: TENSION LAP SPLICE (CLASS B) LENGTH (mm)

BAR SIZE	GROUT STRENGTH			
	10 MPa	15 MPa	20 MPa	25 MPa
10M	600	490	420	390
15M	890	730	630	570
20M	1190	970	840	750
25M	1860	1520	1310	1170
30M	2230	1820	1580	1410

TABLE 3: DEVELOPMENT LENGTH (mm) FOR STANDARD HOOKS

BAR SIZE	GROUT STRENGTH			
	10 MPa	15 MPa	20 MPa	25 MPa
10M	320	260	230	200
15M	480	390	340	300
20M	640	520	450	400
25M	800	650	560	500
30M	950	780	680	600

TABLE 4: COMPRESSION DEVELOPMENT LENGTH (mm)

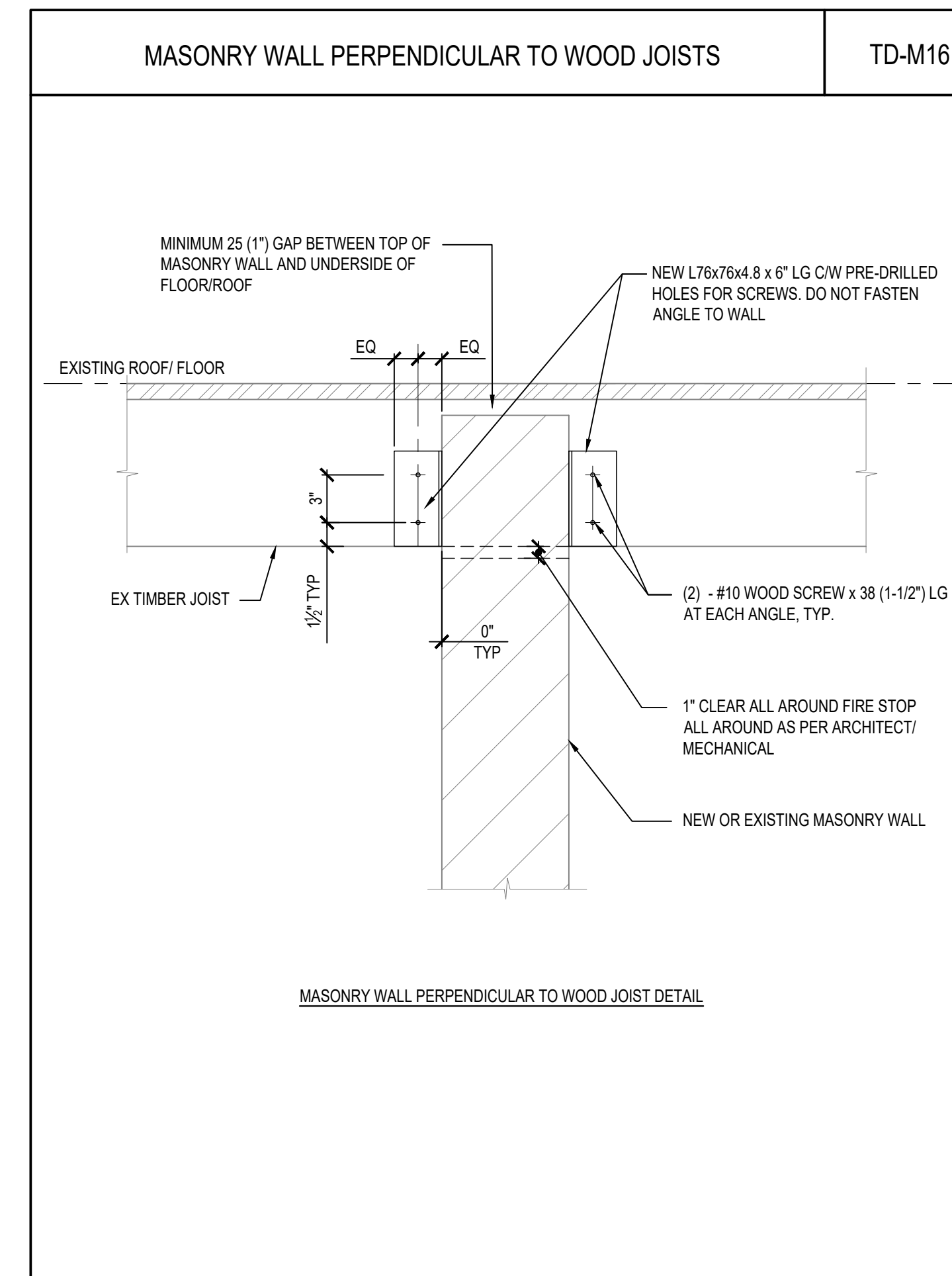
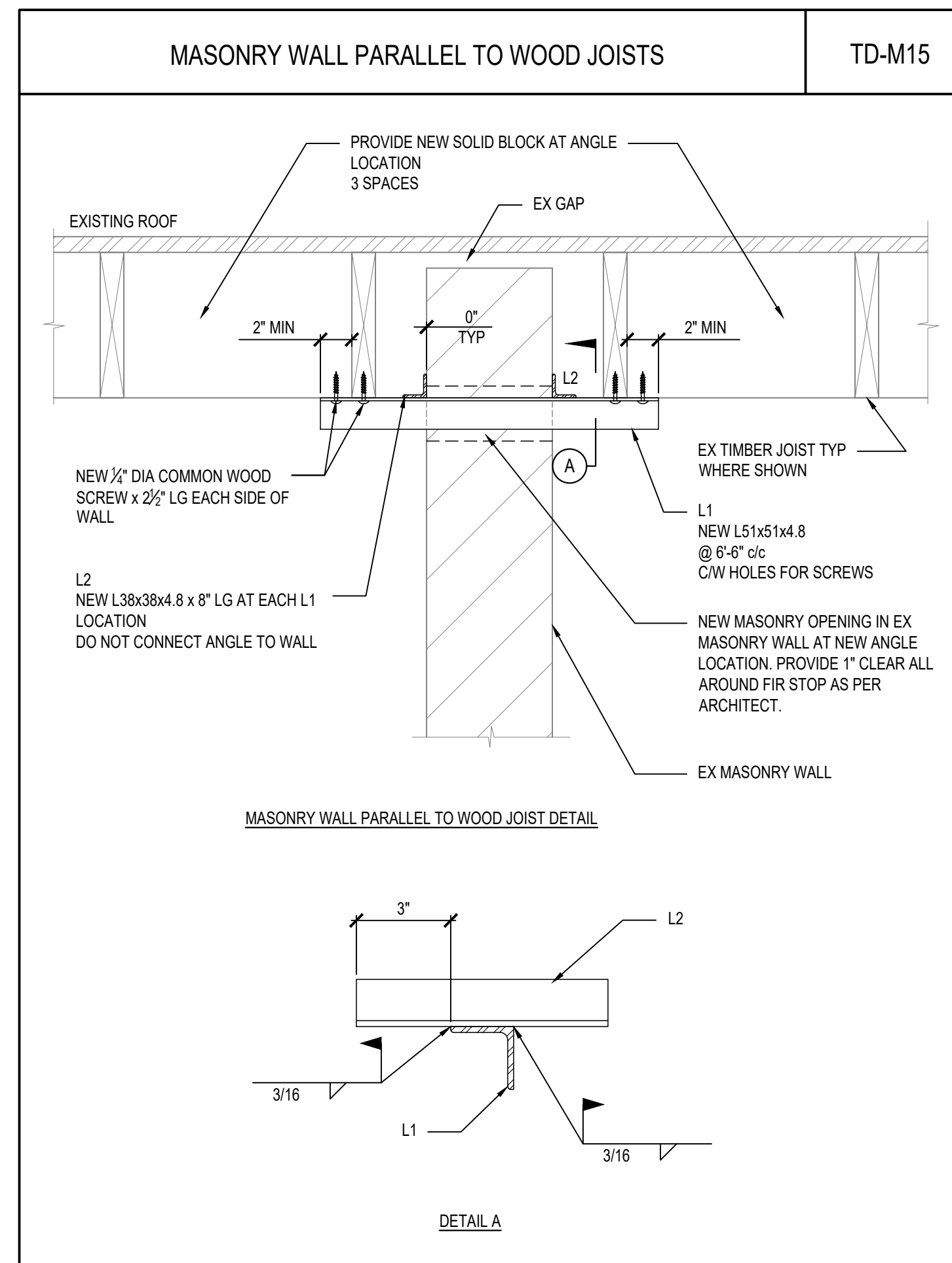
BAR SIZE	GROUT STRENGTH			
	10 MPa	15 MPa	20 MPa	25 MPa
10M	310	250	220	200
15M	460	380	330	290
20M	610	500	430	390
25M	760	620	540	480
30M	920	750	650	580

TABLE 5: COMPRESSION LAP SPLICE LENGTH (mm)

BAR SIZE	GROUT STRENGTH			
	10 MPa	15 MPa	20 MPa	25 MPa
10M	310	300	300	300
15M	460	440	440	440
20M	610	590	590	590
25M	760	730	730	730
30M	920	880	880	880

NOTES:

- 35M, 45M AND 55M BARS SHALL NOT BE USED IN MASONRY.
- LAP SPLICE LENGTHS NOT APPLICABLE FOR BUNDLED BARS.



North

Project Title:

PARK WASHROOM RENOVATION

1873 BLOOR STREET WEST, TORONTO, ON

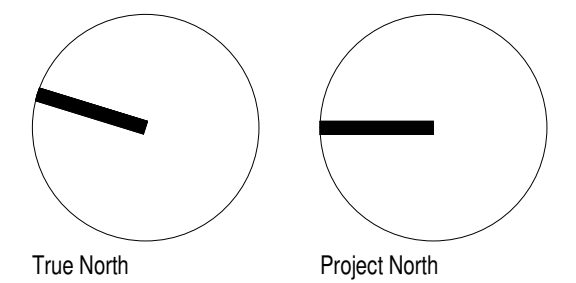
Designed by: STB Scale: NTS

Drawn by: AQV Date: MAY 29, 2024

Sheet Title

TYPICAL DETAILS

Sheet Number



Lower Hillside Washroom Building
Improvements
City of Toronto
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TORONTO, ON M8R 2Z3

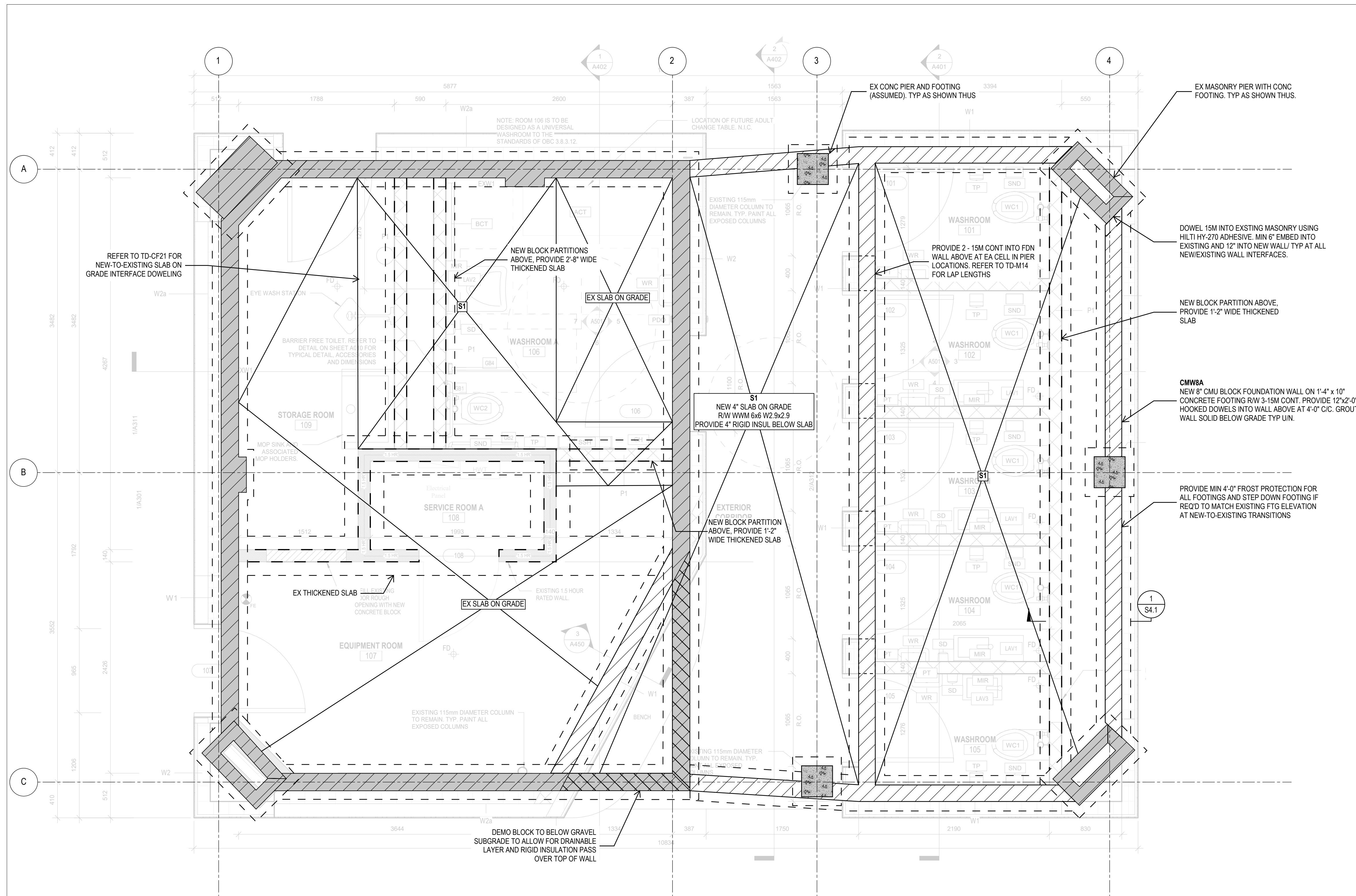
2222

No.	Date	Description
1	FEB 08, 2024	ISSUED FOR PERMIT
2	AUG 07, 2024	ISSUED FOR TENDER

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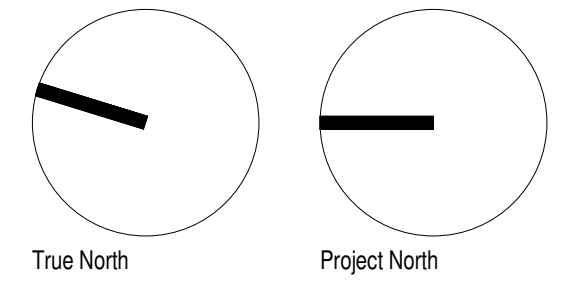
Drawn: STB
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Issued For: TENDER
Date: MAY 29, 2024

FOUNDATION PLAN



A
S2.1
FOUNDATION FRAMING PLAN
1:25

- NOTES:
1. A SOIL BEARING CAPACITY OF 100 kPa / 2,100 psf (SLS) AND 225 kPa / 4,700 psf (ULS) HAS BEEN USED IN DESIGN. THIS IS TO BE VERIFIED BY A GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF FOOTINGS.
 2. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION



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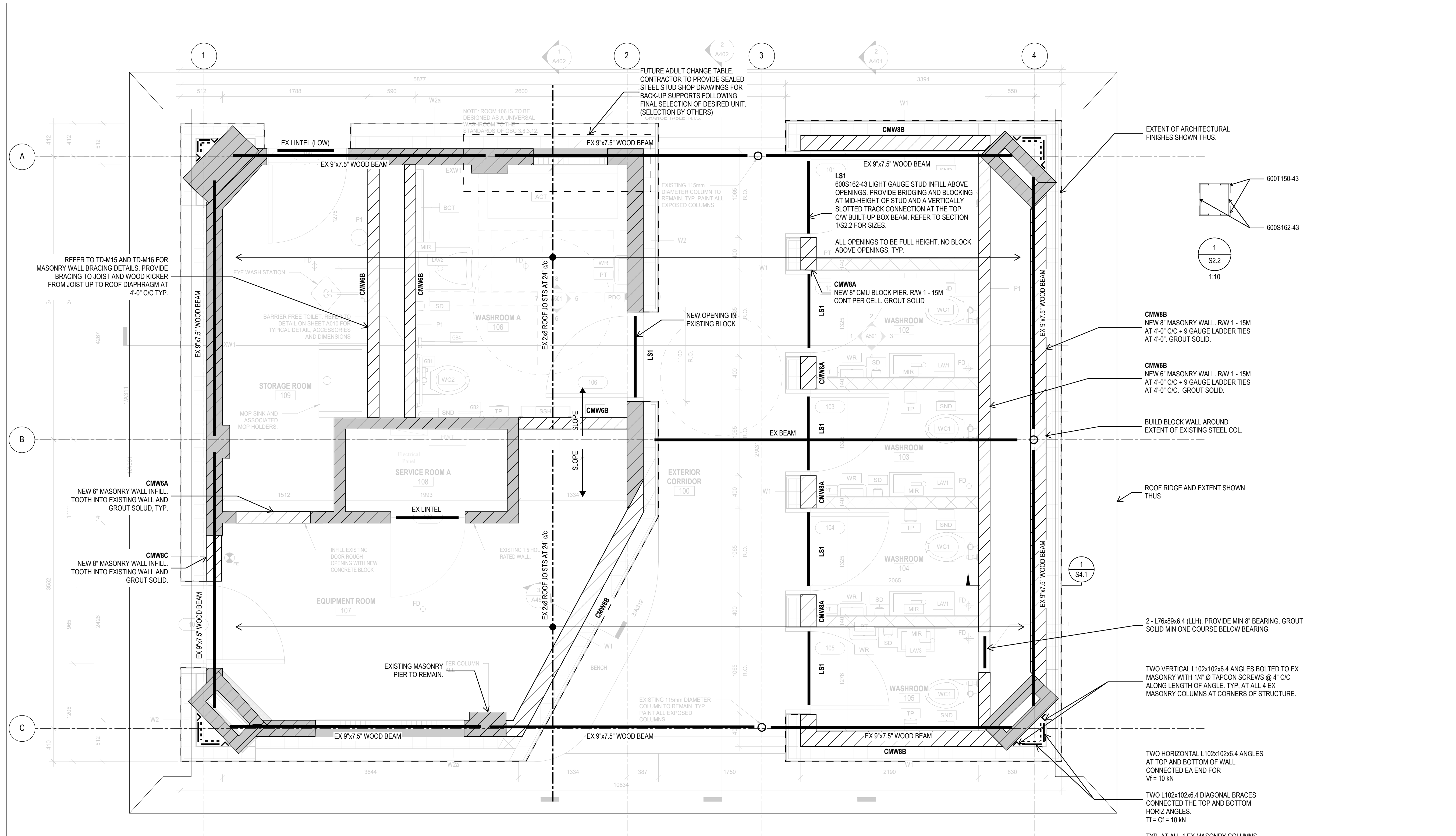
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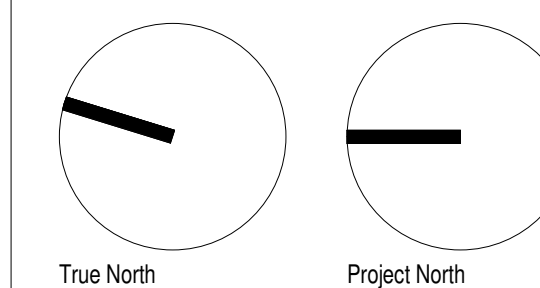
ROOF FRAMING PLAN

S2.2



A ROOF FRAMING PLAN
S2.2 1:25

- NOTES:
- NO STRUCTURAL ALTERATIONS PROPOSED TO MAIN ROOF STRUCTURE.
 - VERIFY ALL EXISTING CONDITIONS AT ONSET OF CONSTRUCTION AND NOTIFY CONSULTANTS OF ANY DISCREPANCIES PRIOR TO PROCEEDING W/ WORK.



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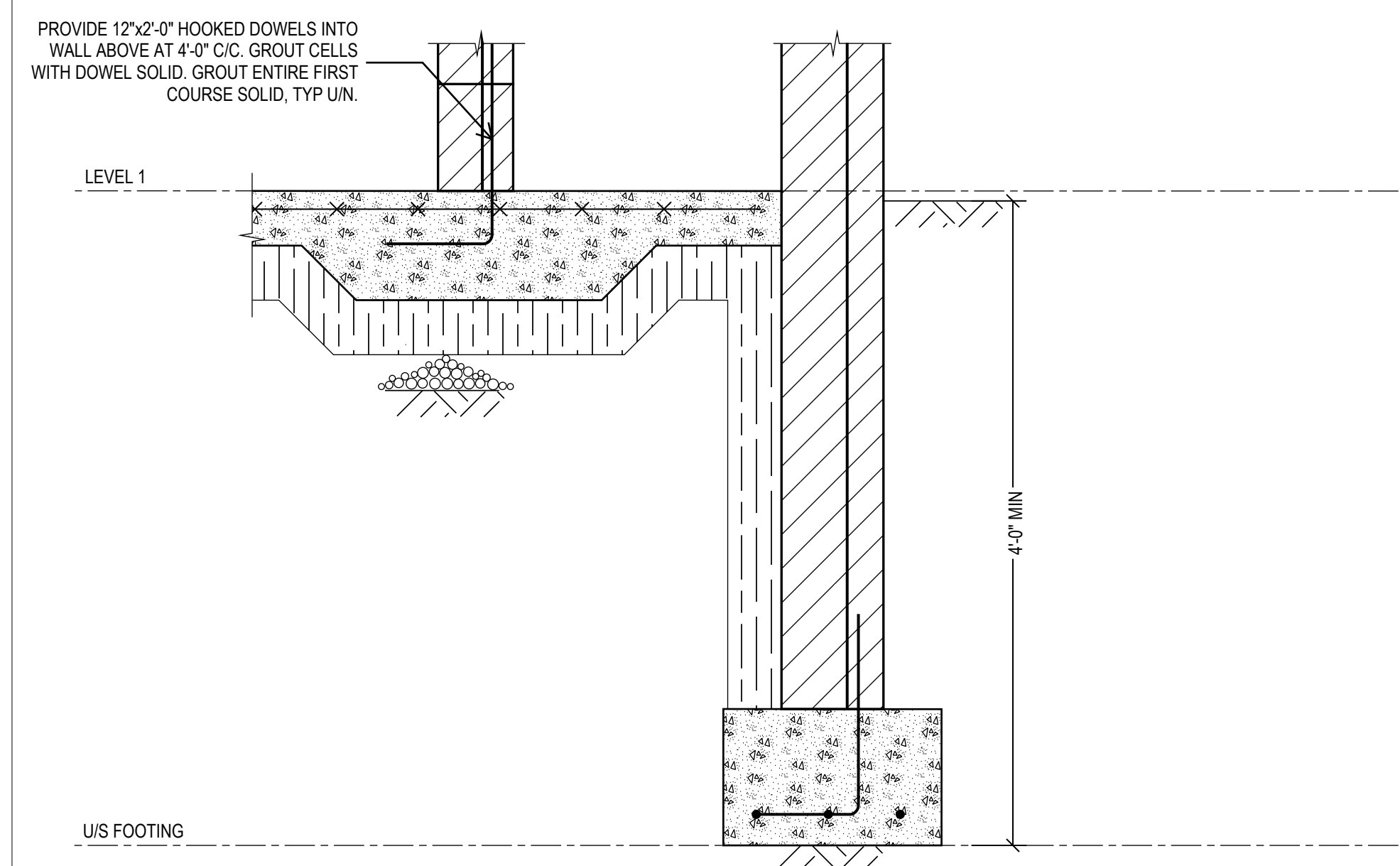
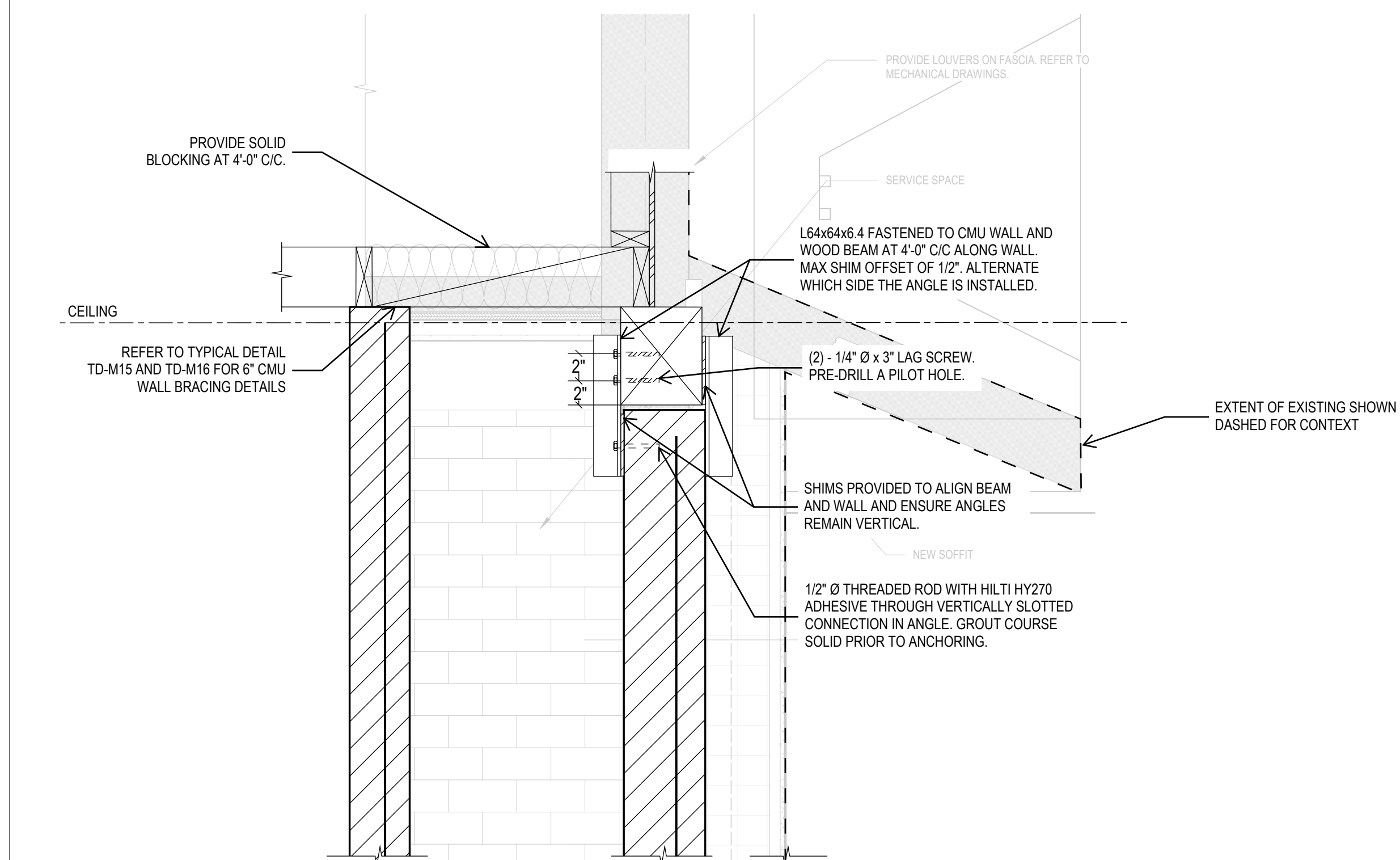
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Issued For: TENDER
Date: MAY 29, 2024

DETAILS AND SECTIONS

S4.1



1
S4.1
1:10

PROJECT CONTACT

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Project: 23210.001.ME

Drawn: S.G.

Checked: A.V.

Scale: N.T.S.

Date: 2023.04

Sheet Title:

MECHANICAL DRAWING LIST AND LEGENDS

Drawing #:

TM-0.0

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		DOMESTIC COLD WATER (DOM. COLD WATER)
	FUNNEL FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		DOMESTIC HOT WATER (DOM. HOT WATER)
	UPTURNED CLEANOUT		DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.)
	HORIZONTAL CLEANOUT		TEMPERED DOMESTIC HOT WATER
	FLOOR DRAIN FROM ABOVE WITH TRAP		NATURAL GAS
	FUNNEL FLOOR DRAIN FROM ABOVE WITH TRAP		NATURAL GAS VENT
	WATER CLOSET AS NOTED REFER TO SPECIFICATION FOR TYPES		VENT
	SINGLE COMPARTMENT KITCHEN SINK		SANITARY ABOVE GRADE OR FLOOR
	MOP SINK		SANITARY BELOW GRADE OR FLOOR
	DOUBLE COMPARTMENT SINK		GATE OR ISOLATION VALVE (REFER TO SPECIFICATION)
	DRINKING FOUNTAIN		GLOBE VALVE
	URINAL		BALL VALVE
	WALL HUNG LAVATORY		PENDANT SPRINKLER HEAD
	WET SPRINKLER		DRY PENDANT SPRINKLER HEAD
	DRY SPRINKLER		UPRIGHT SPRINKLER HEAD
	FIRE HOSE CABINET AND TYPE		CONCEALED SPRINKLER HEAD
	SPRINKLER SHUT-OFF VALVE CABINET AND TYPE		NON-FREEZE SPRINKLER HEAD
	FIRE EXTINGUISHER AND TYPE		HIGH TEMPERATURE SPRINKLER HEAD
	FIRE EXTINGUISHER CABINET AND TYPE		CHEMICAL SPRINKLER HEAD
	FIRE REEL		SIDEWALL SPRINKLER HEAD
	WATER METER		WINDOW SPRINKLER HEAD
	BACK FLOW PREVENTOR		

5 GENERAL SYMBOLS AND ABBREVIATIONS (MSD-012.13)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE OR ISOLATION VALVE (REFER TO SPECIFICATION)		PIPE GUIDE
	GLOBE VALVE		PIPE SLEEVE
	BALL VALVE		ANCHOR
	LOCKSHIELD VALVE		STRAINER
	FLOW BALANCING VALVE		UNION
	PRESSURE INDEPENDENT FLOW BALANCING VALVE		FLANGE FITTING
	PLUG VALVE		ECCENTRIC FITTING
	PRESSURE REDUCING VALVE		CONCENTRIC FITTING
	CHECK VALVE		PRESSURE GAUGE
	SOLENOID VALVE		THERMOMETER
	SAFETY RELIEF VALVE		PRESSURE GAUGE COCK ASSEMBLY
	FLOW METERING STATION		THERMOMETER WELL
	BACKFLOW PREVENTOR		EXPANSION JOINT
	ANGLE VALVE		MANUAL AIR VENT
	BUTTERFLY VALVE		AUTOMATIC AIR VENT
	2-WAY BUTTERFLY VALVE		AIR SEPARATOR
	TEMPERED MIXING VALVE		SIGHT GLASS
	FLEXIBLE JOINT		PUMP
	VACUUM BREAKER		P.R.V. C/W SHUT-OFF VALVE
	BACK WATER VALVE		WATER HAMMER ARRESTOR

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

6 VALVES AND APPURTENANCES (MSD-012.05)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE DAMPER		SMOKE DAMPER
	MOTOR OPERATED DAMPER		POSITIVE SEAL DAMPER
	MANUAL DAMPER		GRAVITY OR BACKDRAFT DAMPER
	BALANCING DAMPER		SPLITTER DAMPER
	COMBINATION SMOKE AND FIRE DAMPER		
	VOLUME EXTRACTOR		
V.A.V. AND F.P.V.A.V. TAG			
V.A.V. BOX TYPE: MIN. FLOW (L/s) IMPERIAL: CFM, [INS.] METRIC: L/s, [mm] MAX. FLOW (L/s)			
MIN. PRIMARY FLOW FAN POWERED V.A.V. BOX TYPE: MAX. PRIMARY FLOW (L/s) IMPERIAL: CFM, [INS.] METRIC: L/s, [mm] SECONDARY FLOW (L/s) REHEAT COIL CAPACITY (KW)			
	V.A.V. BOX (VARIABLE AIR VOLUME)		FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR
	V.A.V. BOX WITH ATTENUATOR		INDUCTION V.A.V. BOX
	V.A.V. BOX WITH REHEAT COIL		PNEUMATIC AIR VALVE (LAB)
	V.A.V. BOX WITH REHEAT COIL AND ATTENUATOR		
HEATING ELEMENT TAG			
A 1200W HEATING CAPACITY 1944 ACTIVE ELEMENT LENGTH ENCLOSURE TYPE			
	REHEAT COIL IN DUCT (RHC) WATER		REHEAT COIL IN DUCT (ERHC) ELECTRIC
	HORIZONTAL UNIT HEATER		RADIATION HEATING RISER NUMBERS (S=SUPPLY AND R=RETURN)
	DOWN BLAST UNIT HEATER		WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE
	RADIANT HEATING PANEL		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

3 AIR HANDLING SYMBOLS (MSD-012.08)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP OR FROM ABOVE		ACOUSTICALLY LINED TRANSFER AIR DUCT
	SUPPLY DUCT DOWN OR FROM BELOW		SILENCER
	RETURN OR EXHAUST DUCT UP OR FROM ABOVE		CROSSTALK SILENCER
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
	ROUND DUCT UP OR FROM ABOVE		DUCT WITH SLEEVE, INSULATION AND DAMPER
	ROUND DUCT DOWN OR FROM BELOW		CAPPED CONNECTION
	ACOUSTIC LINED DUCT		RISE IN DUCT
	FLEXIBLE CONNECTION		DROP IN DUCT
	SQUARE ELBOW DUCT WITH TURNING VANE		SOUND BAFFLE
	RADIUS ELBOW WITH TURNING VANES		PROPELLER FAN
	AXIAL FAN/INLINE FAN MIXED FLOW OR CENTRIFUG		
	CENTRIFUGAL FAN		
DIFFUSER GRILLE OR REGISTER TYPE: NECK OR FACE SIZE (MM) IMPERIAL: CFM, [INS.] METRIC: L/s, [mm] AIR FLOW (L/s)			
	ROUND SUPPLY DIFFUSER		SUPPLY AIR DIFFUSER C/W FLEXIBLE DUCT
	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE		LIGHT TROFFER DIFFUSER TOP INLET C/W FLEXIBLE DUCT
	SQUARE OR RECTANGULAR DIFFUSER		LIGHT TROFFER DIFFUSER SIDE INLET C/W FLEXIBLE DUCT
	NON DUCTED RETURN OR EXHAUST GRILLE		DUCT MOUNTED SUPPLY OR RETURN GRILLE
	NON DUCTED ROUND RETURN OR EXHAUST GRILLE		LINEAR SUPPLY OR RETURN GRILLE
	SQUARE PLAQUE DIFFUSER		SPIN-IN CONNECTION C/W BALANCING DAMPER AND FLEX DUCT
	DIFFUSERS WITH BLANK-OFF PORTION (QTY SHOWN)		SPIN-IN CONNECTION C/W BALANCING DAMPER AND RIGID DUCT

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

4 AIR HANDLING SYMBOLS (MSD-012.09)

MECHANICAL DRAWING LIST	
Sheet Number	Sheet Title
GENERAL	
TM-0.0	MECHANICAL DRAWING LIST AND LEGENDS
TM-0.1	MECHANICAL STANDARD DETAILS
DEMOLITION	
TM-1.1	GROUND FLOOR PLUMBING AND DRAINAGE DEMOLITION LAYOUT
TM-1.2	GROUND FLOOR H.V.A.C. DEMOLITION LAYOUT
PLUMBING	
TM-2.1	GROUND FLOOR PLUMBING AND DRAINAGE LAYOUT
H.V.A.C.	
TM-3.1	GROUND FLOOR H.V.A.C. LAYOUT

1 DRAWING LIST (MSD-012.01)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		SECTION NUMBER
	DRAWING NUMBER		DRAWING NUMBER
	REVISION NUMBER		REVISION BUBBLE
	ELBOWS		PIPING SERVICE CONTINUES
	TEE		REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED
	BRANCH OFF BOTTOM OF MAIN		AIR QUANTITY C.F.M. (L/s)
	BRANCH OFF TOP OF MAIN		
	DIRECTION OF FLOW		
NOTE: EXISTING EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN LIGHT TO REMAIN			
	EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO REMAIN		EXISTING CONCEALED SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO REMAIN		EXISTING PENDANT SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO REMAIN		EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO REMAIN
NOTE: EXISTING EQUIPMENT SHOWN HATCHED TO BE REMOVED AND/OR RELOCATED.			
	EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO BE REMOVED		EXISTING CONCEALED SPRINKLER HEAD TO BE REMOVED/RELOCATED
	EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO BE REMOVED/RELOCATED		EXISTING PENDANT SPRINKLER HEAD TO BE REMOVED/RELOCATED
	EXISTING UPRIGHT SPRINKLER HEAD TO BE REMOVED/RELOCATED		EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD TO BE REMOVED/RELOCATED

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

2 GENERAL SYMBOLS AND ABBREVIATIONS (MSD-012.12)

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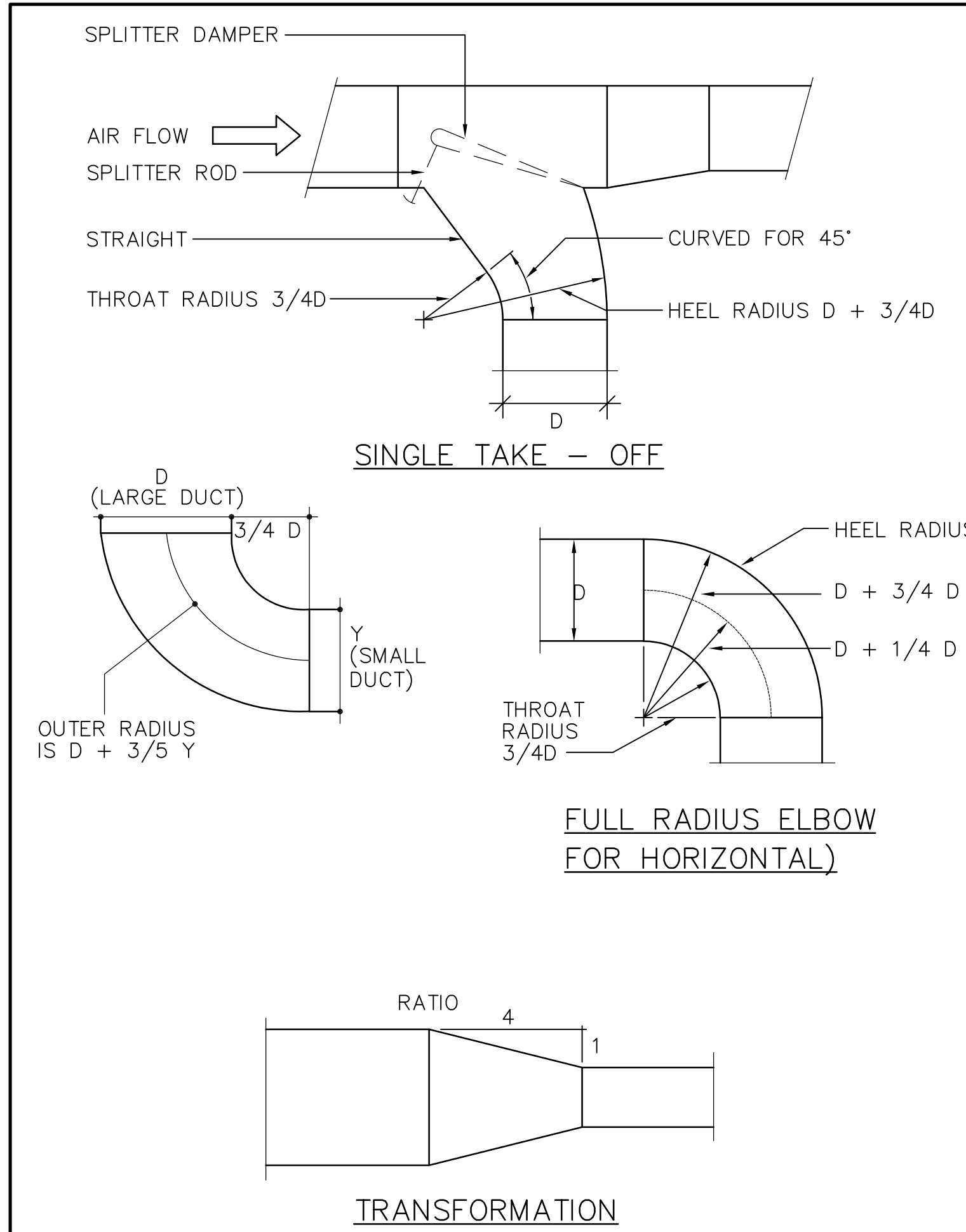
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Sheet Title:

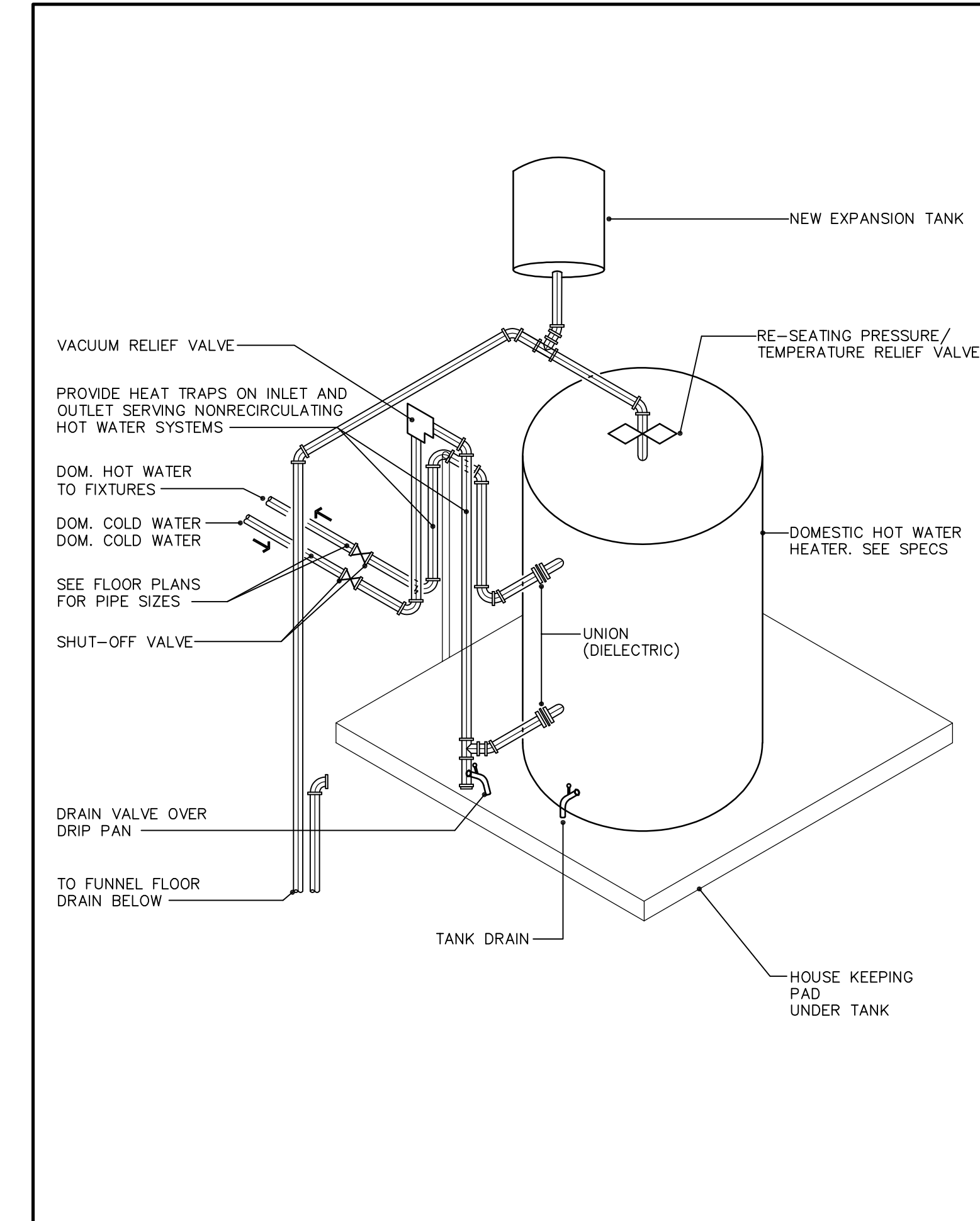
MECHANICAL
STANDARD DETAILS.

Drawing #:

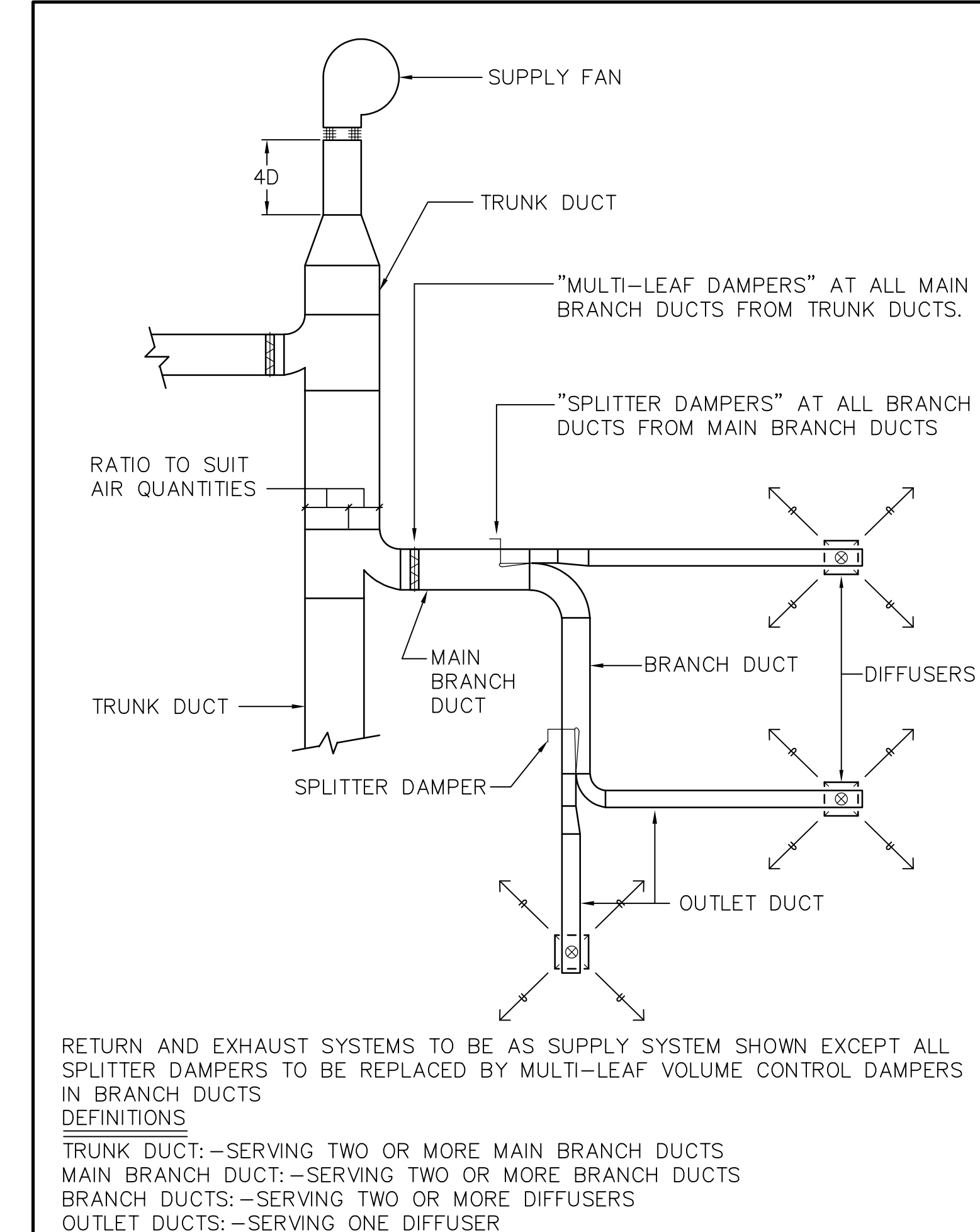
TM-0.1



3 DUCT DETAILS
(MSD-840.05)



1 DOM. HOT WATER HEATER DETAIL

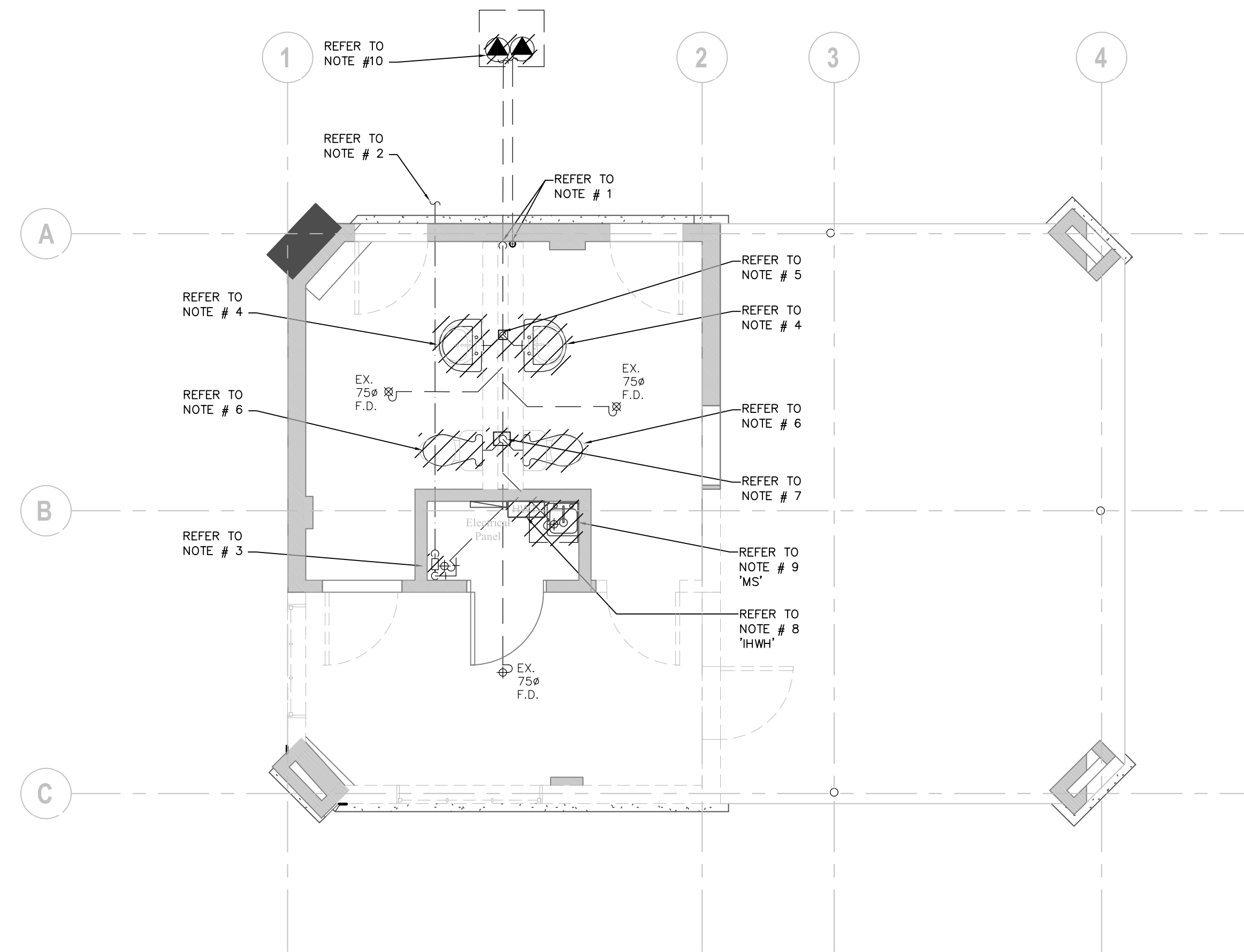


2 BALANCING DAMPERS
(MSD-840.03)

5 NOT USED
TM-0.1

6 NOT USED
TM-0.1

4 NOT USED
TM-0.1



GENERAL NOTES:

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- READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

1. EXISTING 100ø BURIED SANITARY TO EXISTING PUMPING STATION BEYOND. EXISTING 50ø VENT PIPE UP FROM EXISTING PUMPING STATION.
2. EXISTING BURIED INCOMING 50ø DOMESTIC COLD WATER LINE TO REMAIN.
3. EXISTING 40ø WATER METER TO BE REMOVED. CAP EXISTING SERVICES TO ALLOW FOR INSTALLATION OF NEW 50ø METER.
4. REMOVE EXISTING LAVATORY(S) AND ALL ASSOCIATED DOMESTIC HOT AND COLD WATER PIPES, VENT PIPE AND SANITARY DRAIN. (TYPICAL).
5. CONTRACTOR TO CAP EXISTING LAVATORY DRAIN BELOW FLOOR SLAB AND PATCH FLOOR SLAB.
6. REMOVE EXISTING WATER CLOSET(S) AND ALL ASSOCIATED DOMESTIC COLD WATER PIPES, VENT PIPE AND SANITARY DRAIN. (TYPICAL).
7. CONTRACTOR TO CAP EXISTING WATER CLOSET DRAIN BELOW FLOOR SLAB AND PATCH FLOOR SLAB.
8. REMOVE EXISTING ELECTRIC INSTANT HOT WATER HEATER. TEMPORARILY CAP EXISTING SERVICES TO ALLOW FOR NEW HEATER INSTALLATION. ELECTRICAL DISCONNECTION BY ELECTRICAL DIVISION.
9. REMOVE EXISTING MOP SINK AND ALL ASSOCIATED HOT AND COLD WATER PIPES, VENT PIPE AND SANITARY DRAIN. REMOVE BURIED P TRAP AND CAP SANITARY DRAIN BELOW FLOOR.
10. REMOVE EXISTING GRINDER DUPLEX PUMP SET. ELECTRICAL DISCONNECTION BY ELECTRICAL DIVISION.

PROJECT CONTACT

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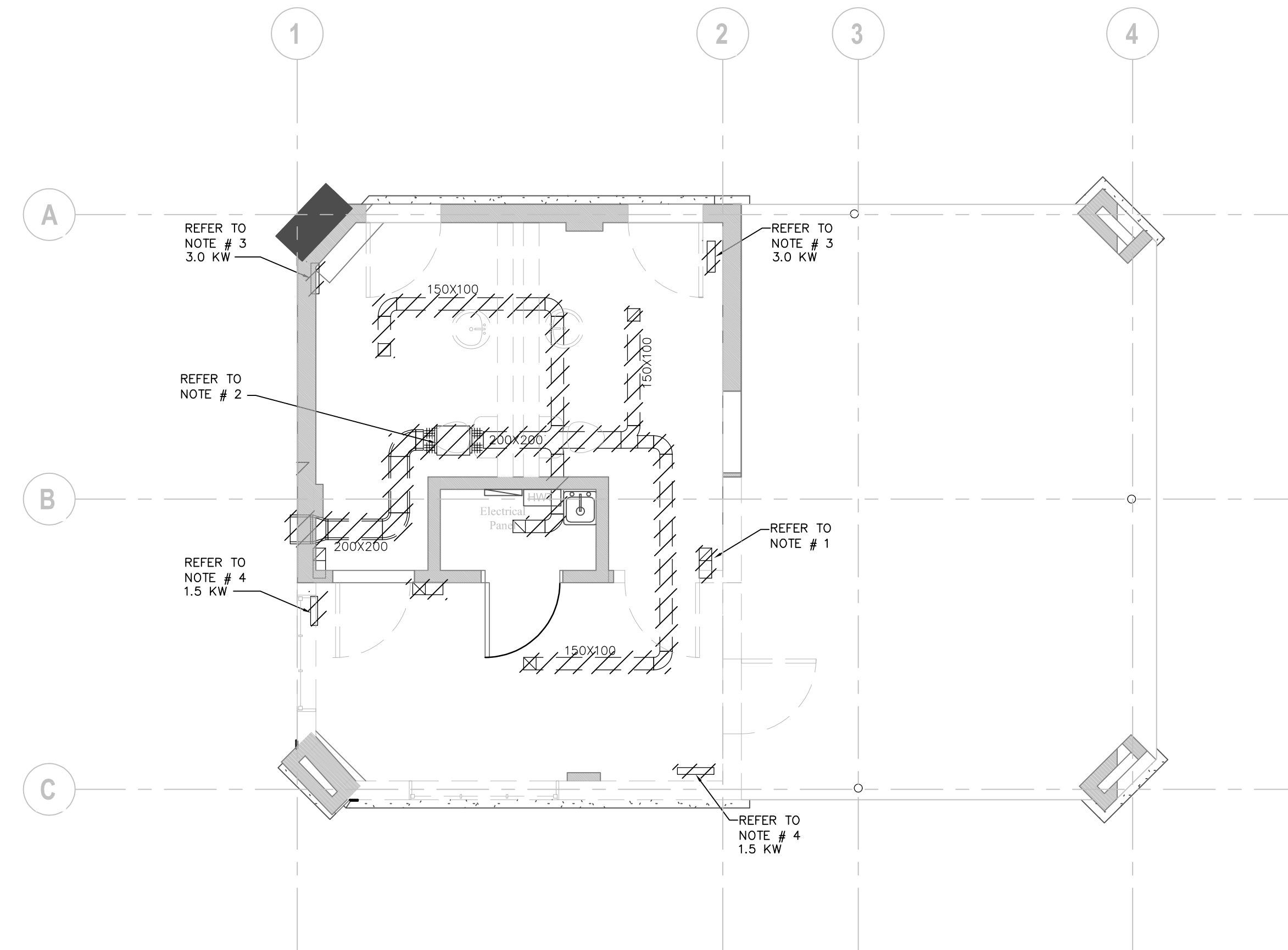
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Scale : 1:50
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Sheet Title:

**GROUND FLOOR
PLUMBING & DRAINAGE
DEMOLITION LAYOUT**

Drawing #:

TM-1.2



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- REFER TO STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

1. EXISTING 150X150 TRANSFER GRILLE AND ACOUSTICALLY LINED DUCT TO BE REMOVED. (TYPICAL).
2. REMOVE EXISTING SANITARY EXHAUST FAN AND ALL ASSOCIATED SANITARY EXHAUST DUCTWORK.
3. REMOVE AND RELOCATE EXISTING 3.0 KW FORCE FLOW HEATERS. CONTRACTOR TO SUBMIT A REPORT ON CONDITION OF EXISTING ELECTRIC FORCE FLOW HEATER AND PROVIDE COSTS ASSOCIATED WITH RECOMMENDED REPAIR, MAINTENANCE OR REPLACEMENT. ELECTRICAL DISCONNECTION AND RECONNECTION BY THE ELECTRICAL DIVISION.
4. REMOVE AND DISPOSE OF EXISTING ELECTRIC FORCE FLOW HEATERS. ELECTRICAL DISCONNECTION BY THE ELECTRICAL DIVISION.

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3.	24/08/07	Issued for Tender

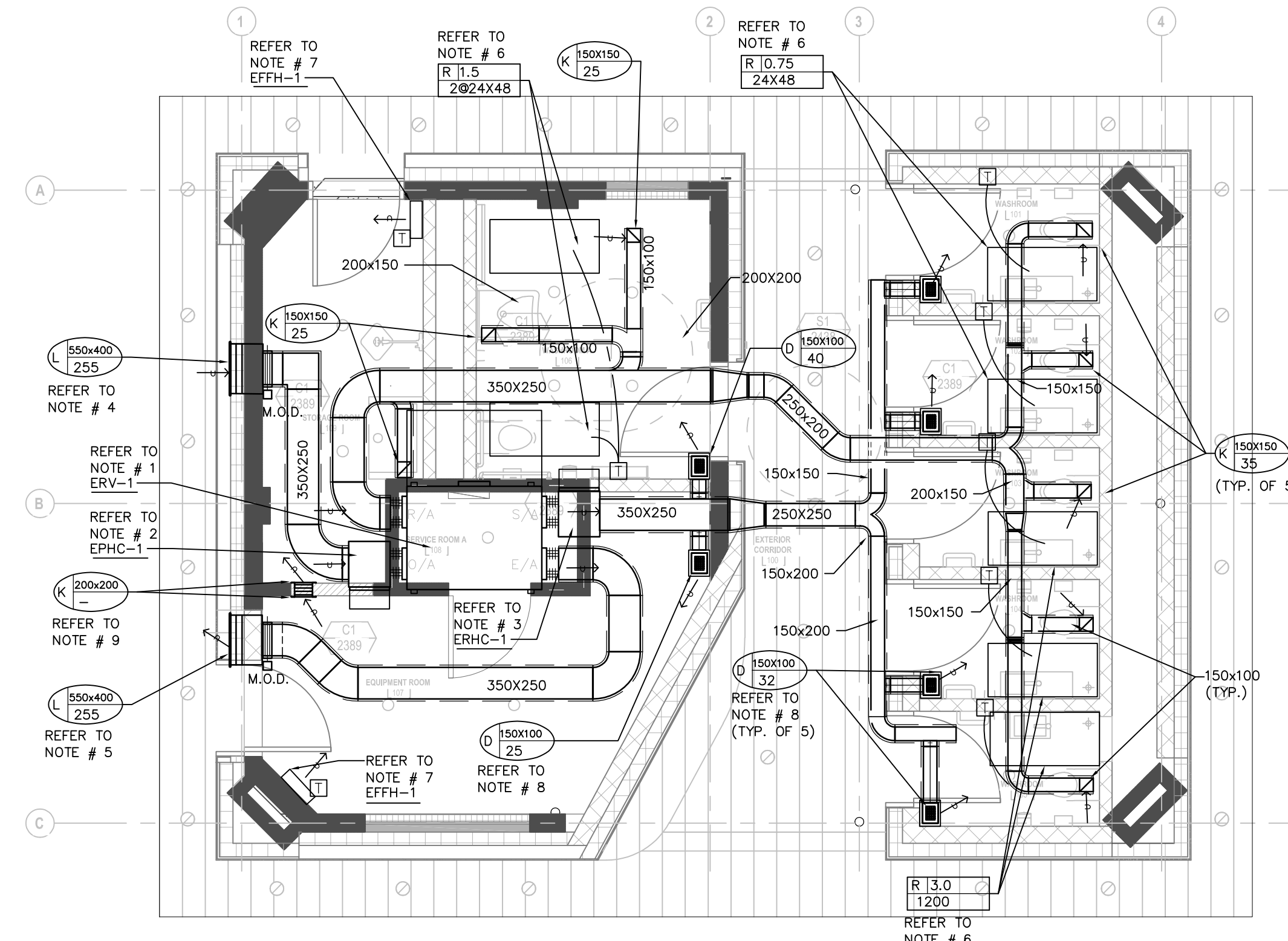
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Date: 2023.04
Sheet Title:

**GROUND FLOOR
H.V.A.C.
DEMOLITION LAYOUT**

Drawing #:

TM-1.3



GENERAL NOTES:

- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
- READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

- PROVIDE AND INSTALL ENERGY RECOVERY OUTSIDE AIR UNIT ERV-1 IN ATTIC SPACE. COMPLETE WITH ALL ASSOCIATED HANGERS, SUPPORTS, FLEXIBLE CONNECTIONS, THERMALLY LINED DUCTWORK, GRILLE, DIFFUSERS, CONDUIT, CONTROLS ETC. TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION. ELECTRICAL CONNECTION BY ELECTRICAL DIVISION.
- PROVIDE AND INSTALL NEW ELECTRIC PRE-HEAT COIL EPHC-1 FOR INCOMING OUTSIDE AIR TO ENERGY RECOVERY UNIT COMPLETE WITH ALL ASSOCIATED HANGERS, SUPPORTS, CONDUIT, CONTROLS ETC. TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION. ELECTRICAL CONNECTION BY ELECTRICAL DIVISION.
- PROVIDE AND INSTALL NEW ELECTRIC HEATING COIL EHC-1 FOR DISCHARGE AIR FROM ENERGY RECOVERY UNIT COMPLETE WITH ALL ASSOCIATED HANGERS, SUPPORTS, CONDUIT, CONTROLS ETC. TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION. ELECTRICAL CONNECTION BY ELECTRICAL DIVISION.
- PROVIDE NEW 550X400 OUTSIDE AIR LOUVER COMPLETE WITH THERMALLY INSULATED 550X400X400 INTAKE PLENUM. CONNECT NEW 350X250 OUTSIDE AIR DUCT TO PLENUM COMPLETE WITH MOTOR OPERATED DAMPED (M.O.D.). SEAL PLENUM WATER TIGHT AND SLOPE BOTTOM OF PLENUM TO OUTSIDE.
- PROVIDE NEW 550X400 EXHAUST AIR LOUVER COMPLETE WITH THERMALLY INSULATED 550X400X400 EXHAUST PLENUM. CONNECT NEW 350X250 EXHAUST AIR DUCT TO PLENUM COMPLETE WITH MOTOR OPERATED DAMPED (M.O.D.). SEAL PLENUM WATER TIGHT AND SLOPE BOTTOM OF PLENUM TO OUTSIDE.
- PROVIDE AND INSTALL NEW ELECTRIC RADIANT CEILING PANELS COMPLETE WITH HANGERS CONDUIT AND CONTROLS. REFER TO DRAWING FOR LENGTH AND OUTPUT. ELECTRICAL CONNECTION BY ELECTRICAL DIVISION.
- RELOCATED EXISTING 3.0 KW FORCE FLOW HEATERS. PROVIDE ALL CONDUIT AND CONTROLS AS REQUIRED. ELECTRICAL CONNECTION BY ELECTRICAL DIVISION.
- ACOUSTICALLY LINED 150X150X250 HIGH SUPPLY AIR PLENUM OVER TYPE 'D' CEILING REGISTER. CONNECT NEW 150X100 THERMALLY INSULATED DUCT TO SUPPLY AIR PLENUM. (TYPICAL).
- PROVIDE TRANSFER AIR GRILLE DUCT THROUGH WALL AT HIGH LEVEL COMPLETE WITH WALL GRILLES ON BOTH SIDES.
- ALL DUCTWORK IN ATTIC SPACE TOP BE 50mm THERMALLY INSULATED DUCTWORK.

PROJECT CONTACT

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THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



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Lower Hillside Washroom Building Improvements

City of Toronto
1873 BLOOR ST W
TORONTO, ON M6R 2Z3

Issue / Revision

No.	Date	Description
1.	23/11/06	Issued for 50% Tender Review
2.	24/02/08	Issued for Permit / Tender
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EQUIPMENT LIST																	
100% OUTSIDE AIR ERV																	
NAME	SUPPLY	EXHAUST	EXT.SP (IN WC)	POWER	MROPD	DESIGN OUTDOOR			DESIGN INDOOR			SUPPLY CONDITIONS					REMARKS
						EXH.SUM/WIN DBT (F°)	OA/SUM/WIN WBT (F°)	SUM/WIN R.H.	SUM/WIN DBT (F°)	R.H.	SUM/WIN DBT (F°)	SUM/WIN WBT (F°)	SUM/WIN RH %	SUM/WIN DEW POINT	SUM/WIN ENTHALPY BTU/LB		
ERV-1	255 L/S	255 L/S	3.9"	208/1/60	15 AMP	75.0/-70.0	75.0/-4.0	50.0/35.0 %	75.0/72.0	50.0/35.0 %	81.6/47.0	69.1/37.2	52.6/12.9	54.0/36.0	31.1/13.9	OXYGEN8 A16IN	

EQUIPMENT LIST					
ELECTRIC DUCT COILS					
TAG	AIR FLOW	POWER	KILOWATTS	MOCPP	REMARKS
EPHC-1	255 L/S	208/1/60	2.0	15 AMP	OXYGEN 8 PRE-HEAT COIL NOVA A16IDU INTEGRATED TO ERV CONTROLS
EHC-1	255 L/S	208/1/60	6.0	40 AMP	OXYGEN 8 PRE-HEAT COIL NOVA A16IDU INTEGRATED TO ERV CONTROLS

ELECTRIC RADIANT PANELS					
R		120/1/60	0.75	15 AMP	OUELLET 'AS2448-750-120' COMPLETE WITH LINE VOLTAGE RECESSED TEMPERATURE SENSOR WITH VANDAL PROOF SCREWS

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GROUND FLOOR
H.V.A.C.
LAYOUT

Drawing #:

TM-3.1

PROJECT CONTACT

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THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



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Lower Hillside Washroom Building Improvements
City of Toronto
1873 BLOOR ST W
TORONTO, ON M6R 2Z3

Issue / Revision

No.	Date	Description
01	2023-11-03	ISSUED FOR 90% REVIEW
02	2024-02-08	ISSUED FOR PERMIT TENDER
03	2024-06-07	ISSUED FOR TENDER

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Scale: N.T.S.
Date: 2023.04
Sheet Title:

DRAWING LIST AND LEGENDS

Drawing #:

TE-0.1

ELECTRICAL DRAWING LIST

DRAWING No.	DRAWING NAME
TE-0.1	DRAWING LIST AND LEGENDS
TE-0.2	ELECTRICAL DETAILS
TE-0.3	ELECTRICAL DETAILS
TE-1.1	GROUND FLOOR ELECTRICAL LAYOUT
TE-1.2	GROUND FLOOR ELECTRICAL DEMOLITION LAYOUT

CLOSEOUT DOCUMENT CHECKLIST

ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING DOCUMENTS **TWO (2) DAYS PRIOR TO OCCUPANCY:**

- ESA CERTIFICATE (NOTING ALL NEW DEVICE TYPES AND QUANTITIES TESTED)
- EMERGENCY LIGHTING LETTER (LETTER SHALL STATE EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS [3.2.7.3 AND 3.2.7.4].)
- CHAIN HUNG LIGHTING LETTER (WRITTEN CONFIRMATION ALL NEW AND RELOCATED CEILING LIGHTING FIXTURES HAVE BEEN SUPPORTED FROM THE STRUCTURE INDEPENDENT FROM THE EXISTING CEILING)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING MOUNTED LINEAR LUMINAIRE DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE.		CEILING MOUNTED WALL WASHER LUMINAIRE. ILLUMINATION DIRECTION DENOTED BY HATCHED SIDE.
	DENOTES FIXTURE ON EMERGENCY NIGHT LIGHT CIRCUIT.		CEILING MOUNTED TRACK LIGHTING C/W NUMBER OF FIXTURES.
	WALL MOUNTED LINEAR LUMINAIRE. DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE.		WALL MOUNTED LUMINAIRE
	CEILING INTO LUMINAIRE OR BASKET LUMINAIRE. LAMP ORIENTATION AS SHOWN. REFER TO SCHEDULE FOR TYPE.		PENDANT FIXTURE
	EXISTING LUMINAIRE TO BE REMOVED		CEILING MOUNTED LUMINAIRE
	EXISTING LUMINAIRE TO REMAIN		FLOOR MOUNTED LUMINAIRE
	POLE MOUNTED LUMINAIRE. NUMBER OF HEADS SHOWN. REFER TO SCHEDULE FOR FIXTURE AND POLE TYPE.		TRACK LIGHT WITH PENDANT LUMINAIRE AS INDICATED
	CEILING MOUNTED LUMINAIRE WITH GIMBALLED HEADS. REFER TO SCHEDULE FOR TYPE AND NUMBER OF HEADS.		BOLLARD LUMINAIRE
	VERTICAL WALL MOUNTED FLUORESCENT LUMINAIRE		
	CONTINUOUS STRIP LIGHT. REFER TO SCHEDULE FOR FIXTURE TYPE.		
	STAGGERED COVE LIGHT. DIMENSIONS AND NUMBER OF FIXTURES SHOWN. REFER TO SCHEDULE FOR FIXTURE TYPE.		
	RECESSED CEILING MOUNTED REMOTE ADJUSTABLE LUMINAIRE CONNECTED TO EMERGENCY LIGHTING BATTERY UNIT		EMERGENCY LIGHTING BATTERY UNIT C/W NUMBER OF HEADS SHOWN
	WALL MOUNTED EMERGENCY SINGLE REMOTE HEAD		EMERGENCY LIGHTING BATTERY UNIT
	WALL MOUNTED EMERGENCY DOUBLE REMOTE HEAD		EMERGENCY LIGHTING BATTERY + EXIT LIGHT COMBINATION UNIT C/W NUMBER OF HEADS SHOWN
	CEILING MOUNTED EMERGENCY SINGLE REMOTE HEAD		EXIT LIGHT CEILING MOUNTED C/W FACES AND ARROWS AS INDICATED
	CEILING MOUNTED EMERGENCY DOUBLE REMOTE HEAD		EXIT LIGHT WALL MOUNTED C/W FACES AND ARROWS AS INDICATED

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

5 LIGHTING LEGEND 1 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE LINE VOLTAGE LIGHT SWITCH		
	2 GANG - LINE VOLTAGE LIGHT SWITCH		
	3 GANG - LINE VOLTAGE LIGHT SWITCH		
	3 WAY - LINE VOLTAGE LIGHT SWITCH		
	4 WAY - LINE VOLTAGE LIGHT SWITCH		
	LOW VOLTAGE LIGHT SWITCH		
	KEY OPERATED LINE VOLTAGE SWITCH		
	MASTER SWITCH		
	ALL-OFF SWITCH		
	SINGLE POLE 347V SWITCH		
	DIMMER TYPE TO SUIT LOAD		
	CEILING MOUNTED PHOTO CELL SWITCH		
	WALL MOUNTED PHOTO CELL SWITCH		
	DAY LIGHT PHOTO SENSOR		
	TIME SWITCH		
	CEILING MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY 'C'. REFER TO OCCUPANCY SENSOR SCHEDULE.		
	WALL MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY 'W'. REFER TO OCCUPANCY SENSOR SCHEDULE.		
	LIGHTING CONTROL MODULE		
	MULTI-ZONE LIGHTING CONTROL PANEL		
	REMOTE STATION WITH PRESET SCENE SELECTION BUTTON		
	PARTITION POSITION INFRARED SENSOR FOR LIGHTING CONTROL		

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

6 LIGHTING LEGEND 2 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		WALL MOUNTED COMBINATION COMMS / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO DETAIL.
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		FLOOR OR CEILING MOUNTED AS SHOWN COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (T-SLOT)		FLOOR POKE THROUGH COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, DEDICATED CIRCUIT		FLOOR POKE THROUGH AS ABOVE WITH AUDIOVISUAL REQUIREMENT. REFER TO DETAIL.
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, SPLIT SWITCH CONTROLLED DUPLEX RECEPTACLE		WALL MOUNTED COMBINATION COMMS / DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO DETAIL.
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		FLOOR OR CEILING MOUNTED AS SHOWN COMBINATION COMMUNICATION / DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		FLOOR POKE THROUGH AS ABOVE WITH AUDIOVISUAL REQUIREMENT. REFER TO DETAIL.
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, SPLIT SWITCH CONTROLLED DUPLEX RECEPTACLE		SYSTEMS FURNITURE FEED POINT FOR POWER & COMMS. CABLING LETTER DENOTES FEED LOCATION: W= WALL, F= FLOOR, P= PAC POLE, WM = WIREMOLD POLE, SPLIT CIRCUIT
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, SPLIT CIRCUIT		CEILING MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, SPLIT CIRCUIT		CEILING MOUNTED SIMPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, SPLIT CIRCUIT		CEILING MOUNTED SIMPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, SPLIT CIRCUIT		FLOOR MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, SPLIT CIRCUIT		FLOOR MOUNTED QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, SPLIT CIRCUIT		RACEWAY RECEPTACLE. TYPE AS SPECIFIED C/W QUANTITY OF DEVICES INDICATED
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, SPLIT CIRCUIT		SERVICE POLE. TYPE AS SPECIFIED C/W QUANTITY OF DEVICES INDICATED

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

3 POWER LEGEND 1 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUSH MOUNTED SINGLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.		CONTACTOR
	FLUSH MOUNTED DOUBLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.		GROUND ROD WITH INSPECTION PIT
	SURFACE MOUNTED SINGLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.		THERMOSTAT-16mm (1/2") CONDUIT TO ACCESSIBLE CEILING SPACE
	SURFACE MOUNTED DOUBLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.		JUNCTION BOX (SIZE SPECIFIED ON DRAWING)
	TRANSFORMER (SIZE NOTED ON SINGLE LINE DIAGRAM)		ELECTRIC UNIT HEATER
	DISCONNECT		ELECTRIC BASEBOARD HEATER. 'X' DENOTES TYPE. REFER TO BASEBOARD HEATER SCHEDULE.
	COMBINATION MANUAL STARTER WITH INTEGRAL DISCONNECT		GROUND BAR
	COMBINATION STARTER WITH INTEGRAL DISCONNECT		HAND DRYER HARD WIRED CONNECTION
	DIRECT CONNECTION		METER
	DIRECT CONNECTION C/W DISCONNECT		RELAY
	MOTOR AND DISCONNECT		PULL BOX
	MOTOR AND RELAY DISCONNECT		GROUND BUS
	MOTOR AND COMBINATION STARTER WITH INTEGRAL DISCONNECT		DENOTES RECEPTACLE TYPE. REFER TO RECEPTACLE SCHEDULE.
	VARIABLE FREQUENCY DRIVE AND VFD CABLE CONNECTION TO MOTOR. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. MOTOR, VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.		UTILITY METERING CABINET
	VARIABLE FREQUENCY DRIVE. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. LOAD SIDE WIRING OF VFD TO BE VFD CABLE. VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.		DOOR BELL CHIME
	VARIABLE FREQUENCY DRIVE. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. LOAD SIDE WIRING OF VFD TO BE VFD CABLE. VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.		CLOCK WALL MOUNTED
	VARIABLE FREQUENCY DRIVE. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. LOAD SIDE WIRING OF VFD TO BE VFD CABLE. VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.		CLOCK CEILING MOUNTED
	VARIABLE FREQUENCY DRIVE. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. LOAD SIDE WIRING OF VFD TO BE VFD CABLE. VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.		PUSH BUTTON
	VARIABLE FREQUENCY DRIVE. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. LOAD SIDE WIRING OF VFD TO BE VFD CABLE. VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.		MOTOR
	HARMONIC FILTER (SUPPLIED BY MECH. CONTRACTOR UNLESS NOTED OTHERWISE). LINE AND LOAD SIDE WIRING OF HARMONIC FILTER BY ELECTRICAL CONTRACTOR.		

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

4 POWER LEGEND 2 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		SECTION NUMBER
	DRAWING NUMBER		DRAWING NUMBER
	REVISION NUMBER		REVISION BUBBLE
	AMPS		MOTOR OPERATED
	ACCESS DOOR		MOTOR OPERATED DAMPER
	ARC FAULT CIRCUIT INTERRUPTER		MICROWAVE
	ABOVE FINISHED FLOOR		NEW
	BASEBOARD HEATER		NORMALLY CLOSED
	BATTERY UNIT		NOT IN CONTRACT
	CONDUIT		NIGHT LIGHT
	CANDELA		NORMALLY OPEN
	CEILING MOUNTED		OVER COUNTER
	CHARGING STATION		OBSTRUCTION LIGHT
	CONVENTIONAL STYLE DEVICE		PARABOLIC LOUVRE
	DEDICATED		PATIENT LIFT
	DEDICATED GROUND		RELOCATE
	DOMESTIC HOT WATER TANK		RANGE
	DEDICATED NEUTRAL + BOND		REVISE EXISTING CIRCUIT
	LAUNDRY DRYER		RANGE HOOD
	DISHWASHER		ROUGH IN AND CONNECT
	EXISTING		ROUGH IN ONLY
	EXHAUST FAN		REMOVE AND REINSTALL
	EMERGENCY CIRCUIT		SEPARATE CIRCUIT
	ELECTRICAL SUITE PANEL		SYSTEM FURNITURE
	EXISTING TO BE REMOVED		SLAVE SUITE ALARM PANEL
	REFRIGERATOR		TYPICAL
	FLOOR FEED		UNDER CABINET MOUNTED
	FORCE FLOW HEATER		UPS CIRCUIT
	FLOOR MOUNTED		UNIT HEATER
	GROUND FAULT CIRCUIT INTERRUPTER		UNINTERRUPTIBLE POWER SUPPLY
	GROUND FAULT INTERRUPTER		VOLTS
	GROUND		WATTS
	HOUSE KEEPING		WIRE GUARD
	HARMONIC MITIGATING TRANSFORMER		WIRELESS ACCESS POINT
	ICE MACHINE		WALL FEED
	ISOLATED GROUND		WEATHERPROOF
	JUNCTION BOX		EXPLOSION PROOF DEVICE + BACK BOX
	KILOWATTS		ZSCCT
	LOW VOLTAGE		

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

2 GENERAL AND SYMBOLS AND ABBREVIATIONS

PROJECT CONTACT

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Smith + Andersen

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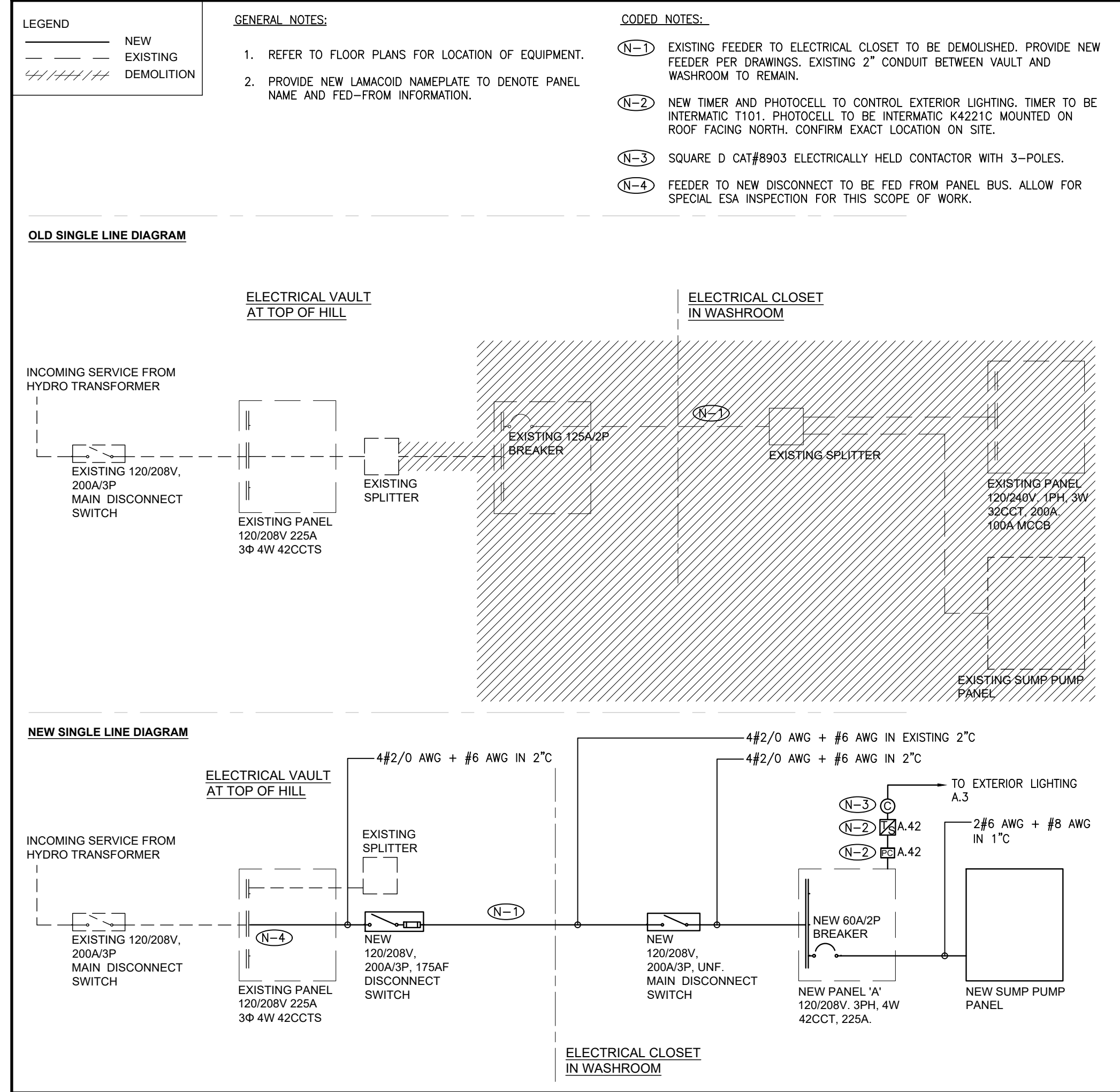
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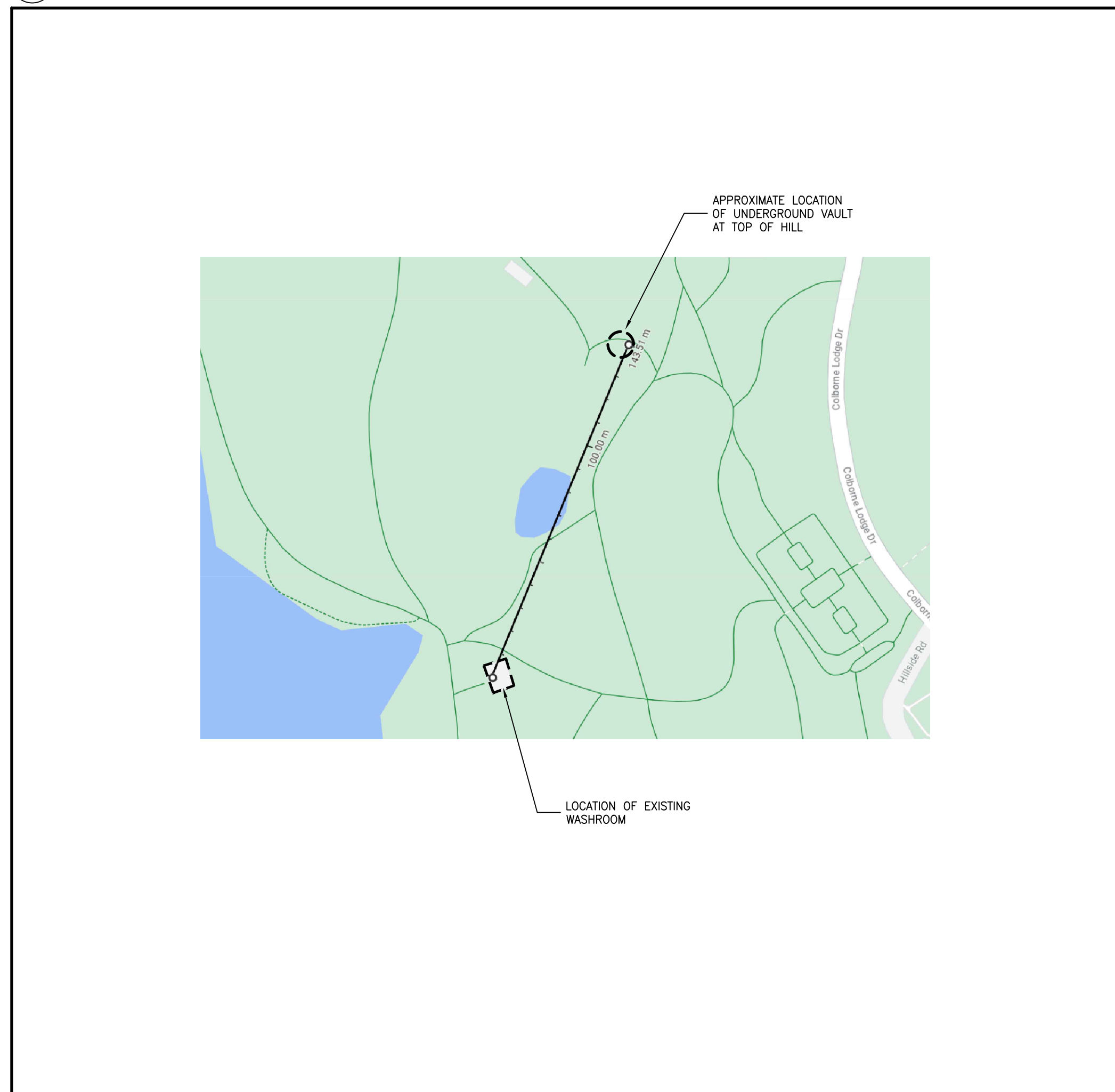
ELECTRICAL DETAILS

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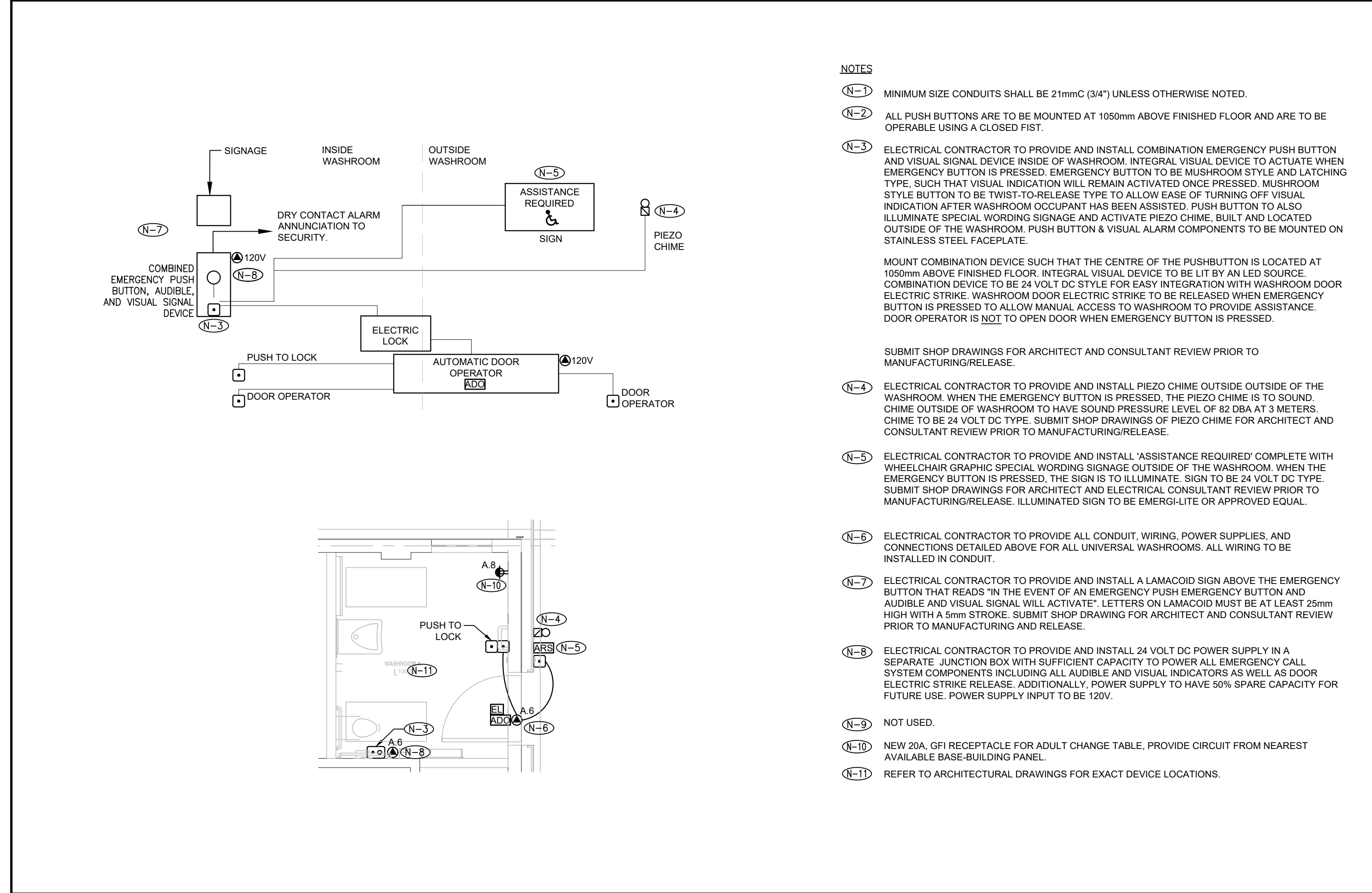
TE-0.2



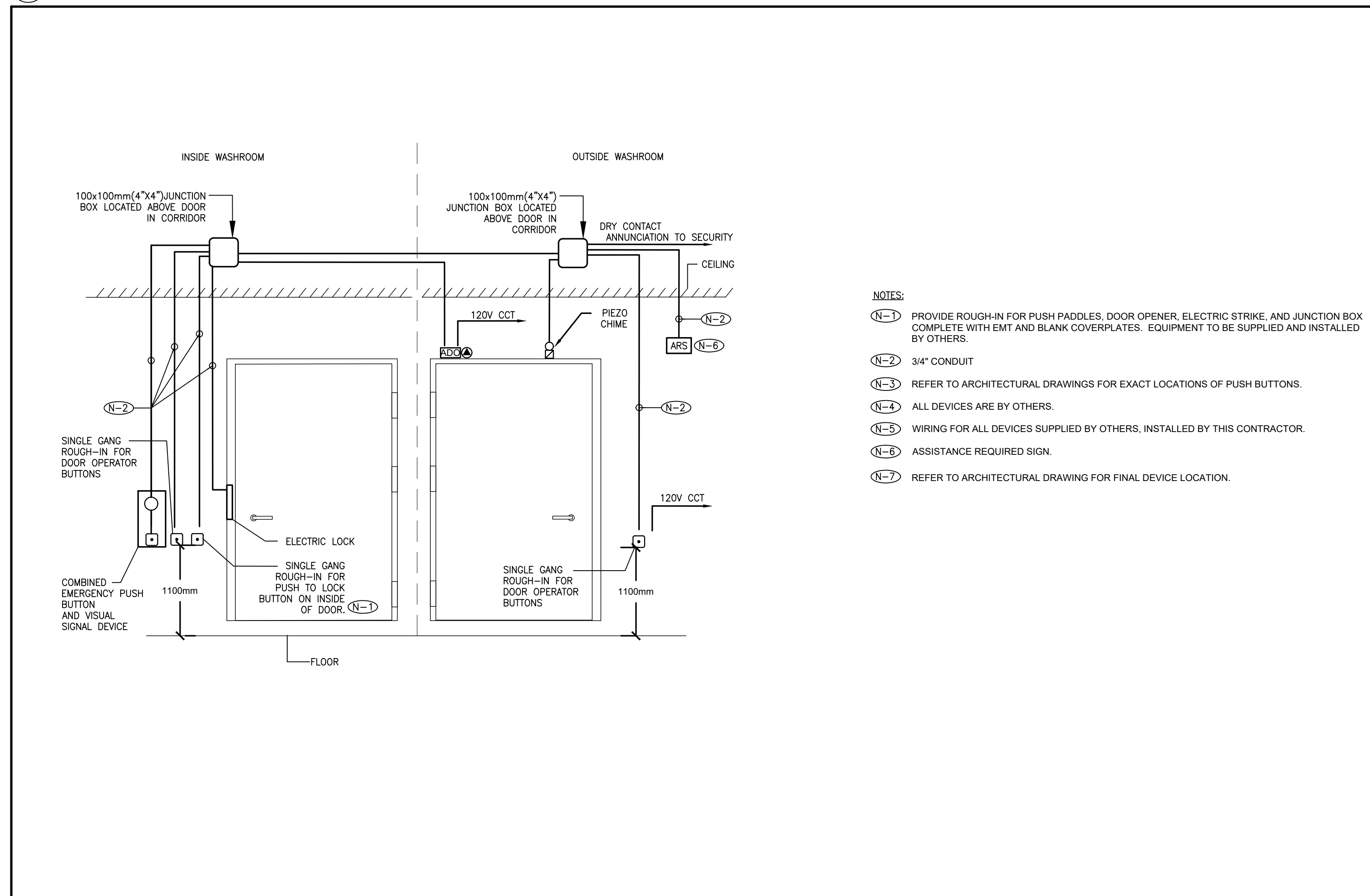
3 SINGLE LINE DIAGRAM
TE-0.2 NTS



4 PARTIAL KEYPLAN
TE-0.2 NTS



1 BARRIER FREE/UNIVERSAL WASHROOM SCHEMATIC AND FLOOR PLAN
TE-0.2 1:50



2 BARRIER FREE/UNIVERSAL WASHROOM DOOR DETAIL
TE-0.2 N.T.S.

NOTES

- (N-1) MINIMUM SIZE CONDUITS SHALL BE 21mmC (3/4") UNLESS OTHERWISE NOTED.
- (N-2) ALL PUSH BUTTONS ARE TO BE MOUNTED AT 1050mm ABOVE FINISHED FLOOR AND ARE TO BE OPERABLE USING A CLOSED FIST.
- (N-3) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL COMBINATION EMERGENCY PUSH BUTTON AND VISUAL SIGNAL DEVICE INSIDE OF WASHROOM. INTEGRAL VISUAL DEVICE TO ACTUATE WHEN EMERGENCY BUTTON IS PRESSED. EMERGENCY BUTTON TO BE MUSHROOM STYLE AND LATCHING TYPE. SUCH THAT VISUAL INDICATION WILL REMAIN ACTIVATED ONCE PRESSED. MUSHROOM STYLE BUTTON TO BE TWIST-TO-RELEASE TYPE TO ALLOW EASE OF TURNING OFF VISUAL INDICATION AFTER WASHROOM OCCUPANT HAS BEEN ASSISTED. PUSH BUTTON TO ALSO ILLUMINATE SPECIAL WORDING SIGNAGE AND ACTIVATE PIEZO CHIME, BUILT AND LOCATED OUTSIDE OF THE WASHROOM. PUSH BUTTON & VISUAL ALARM COMPONENTS TO BE MOUNTED ON STAINLESS STEEL FACEPLATE.
- (N-4) MOUNT COMBINATION DEVICE SUCH THAT THE CENTRE OF THE PUSHBUTTON IS LOCATED AT 1050mm ABOVE FINISHED FLOOR. INTEGRAL VISUAL DEVICE TO BE LIT BY AN LED SOURCE. COMBINATION DEVICE TO BE 24 VOLT DC TYPE FOR EASY INTEGRATION WITH WASHROOM DOOR ELECTRIC STRIKE. WASHROOM DOOR ELECTRIC STRIKE TO BE RELEASED WHEN EMERGENCY BUTTON IS PRESSED TO ALLOW MANUAL ACCESS TO WASHROOM TO PROVIDE ASSISTANCE. DOOR OPERATOR IS NOT TO OPEN DOOR WHEN EMERGENCY BUTTON IS PRESSED.
- (N-5) SUBMIT SHOP DRAWINGS FOR ARCHITECT AND CONSULTANT REVIEW PRIOR TO MANUFACTURING/RELEASE.
- (N-6) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL PIEZO CHIME OUTSIDE OF THE WASHROOM. WHEN THE EMERGENCY BUTTON IS PRESSED, THE PIEZO CHIME IS TO SOUND. CHIME OUTSIDE OF WASHROOM TO HAVE SOUND PRESSURE LEVEL OF 60 DBA AT 3 METERS. CHIME TO BE 24 VOLT DC TYPE. SUBMIT SHOP DRAWINGS OF PIEZO CHIME FOR ARCHITECT AND CONSULTANT REVIEW PRIOR TO MANUFACTURING/RELEASE.
- (N-7) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 'ASSISTANCE REQUIRED' COMPLETE WITH WHEELCHAIR GRAPHIC SPECIAL WORDING SIGNAGE OUTSIDE OF THE WASHROOM. WHEN THE EMERGENCY BUTTON IS PRESSED, THE SIGN IS TO ILLUMINATE. SIGN TO BE 24 VOLT DC TYPE. SUBMIT SHOP DRAWINGS FOR ARCHITECT AND CONSULTANT REVIEW PRIOR TO MANUFACTURING/RELEASE. ILLUMINATED SIGN TO BE EMERGLITE OR APPROVED EQUAL.
- (N-8) ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT, WIRING, POWER SUPPLIES, AND CONNECTIONS DETAILED ABOVE FOR ALL UNIVERSAL WASHROOMS. ALL WIRING TO BE INSTALLED IN CONDUIT.
- (N-9) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A LAMACOID SIGN ABOVE THE EMERGENCY BUTTON THAT READS "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE". LETTERS ON LAMACOID MUST BE AT LEAST 25mm HIGH WITH A 5mm STROKE. SUBMIT SHOP DRAWING FOR ARCHITECT AND CONSULTANT REVIEW PRIOR TO MANUFACTURING AND RELEASE.
- (N-10) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 24 VOLT DC POWER SUPPLY IN A SEPARATE JUNCTION BOX WITH SUFFICIENT CAPACITY TO POWER ALL EMERGENCY CALL SYSTEM COMPONENTS INCLUDING ALL AUDIBLE AND VISUAL INDICATORS AS WELL AS DOOR ELECTRIC STRIKE RELEASE. ADDITIONALLY, POWER SUPPLY TO HAVE 50% SPARE CAPACITY FOR FUTURE USE. POWER SUPPLY INPUT TO BE 120V.
- (N-11) NOT USED.
- (N-12) NEW 20A, GFI RECEPTACLE FOR ADULT CHANGE TABLE. PROVIDE CIRCUIT FROM NEAREST AVAILABLE BASE-BUILDING PANEL.
- (N-13) REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS.

PROJECT CONTACT

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Lower Hillside Washroom Building Improvements

City of Toronto
1873 BLOOR ST W
TORONTO, ON M6R 2Z3

Issue / Revision

No.	Date	Description
01	2023-11-03	ISSUED FOR RFI REVIEW
02	2024-02-08	ISSUED FOR PERMITS/TENDER
03	2024-06-07	ISSUED FOR TENDER

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Project: 23210.001.ME
Drawn: J.B.
Checked: W.Y.C./N.C.
Scale: N.T.S.
Date: 2023.04
Sheet Title:

ELECTRICAL DETAILS

Drawing #:

TE-0.3

PANEL: RP-A										LOCATION: SERVICE ROOM A		Smith + Andersen		
PROJECT NAME: HIGH PARK HILLSIDE WASHROOM RENO										FED FROM: ELECTRICAL VAULT				
PROJECT # 23210.001.E.001														
TYPE/ INFO	DESCRIPTION	D.F. [A]	CONN. LOAD [W]	DEMAND LOAD [W]	BKR [A]	CCT NO.	BKR [A]	DEMAND LOAD [W]	CONN. LOAD [W]	D.F. [A]	DESCRIPTION	TYPE/ INFO		
	LIGHTING/BU	100	480	480	15	1	A	2	15	100	200	50	STORAGE GF1	
	EXTERIOR LIGHTS	100	560	560	15	3	B	4	20	50	100	50	SERVICE ROOM OUTLET	
GFCI	HEAT TRACE	100	900	900	15	5	C	6	15	150	300	50	AUTOMATIC DOOR OPER/REM CALL SYS	
SFCI	HEAT TRACE	100	500	500	15	7	A	8	20	50	500	10	WASHROOM ADULT CHANGE TABLE	
	SPACE					9	B	10	15				SPARE	
	SPACE					11	C	12	20	750	1500	50	FFH	
	SPACE					13	A	14	2P	750	1500	50	FFH	
	SPACE					15	B	16	20	750	1500	50	FFH	
	SPACE					17	C	18	2P	750	1500	50	FFH	
	SPACE					19	A	20	20	750	1500	50	DHW-1	
	SPARE					21	B	22	2P	750	1500	50		
	SPARE					15	23	C	24	15	150	300	50	AUTOFAUCET/FLUSH
	SPARE					15	25	A	26	15	100	200	50	AUTOFAUCET/FLUSH
	SPARE					15	27	B	28	15	500	1000	50	EPHC-1
	SPARE					15	29	C	30	2P	500	1000	50	
	RADIANT PANEL (105)	50	750	375	20	31	A	32	40	1500	3000	50	ERHC-1	
	RADIANT PANEL (105, 106)	50	1500	750	20	33	B	34	2P	1500	3000	50		
	RADIANT PANEL (101, 102)	50	1500	750	20	35	C	36	15	275	550	50	ERV-1	
	RADIANT PANEL (106)	50	1500	750	20	37	A	38	2P	275	550	50		
	SUMP PUMP	50	4056	2028	60	39	B	40	15	100	100	100	BAS	
		50	4056	2028	2P	41	C	42	15	100	100	100	CONTACTOR/TIMER	

PANEL OPTIONS:		LOAD A [kW]	5.83	PHASE VOLTAGE [V]	120
<input type="checkbox"/> CSA ENCLOSURE RATING	<input type="checkbox"/> FLUSH	LOAD B [kW]	6.99	LINE VOLTAGE [V]	208
<input type="checkbox"/> FEED THROUGH	<input checked="" type="checkbox"/> SURFACE	LOAD C [kW]	6.35	PHASE	3P
<input type="checkbox"/> SUB-FEED	<input checked="" type="checkbox"/> BOLT-ON BREAKER	TOTAL [kW]	19	WIRE	4
<input type="checkbox"/> MAIN BREAKER	<input type="checkbox"/> SPD	CURRENT A [A]	47	MAIN BREAKER [A]	225
<input type="checkbox"/> 200% RATED NEUTRAL BUS		CURRENT B [A]	58	I.C. [KA]	10
<input type="checkbox"/> ISOLATED GROUND BUS		CURRENT C [A]	53		

LEGEND:			NOTES:		
BAS-Building Automation System	R.C-Relay Controlled	LTS-Lighting	1. Surge Protection Device (SPD) to be in a separate bannered enclosure with separate cover.		
GFCI-Ground Fault Circuit Interrupter	M-Motor	HI-High Intensity Discharge Lighting Breaker			
AFCI-Arc Fault Circuit Interrupter	D.F-Demand Factor	SPD - Surge Protection Device			
	REC-Receptacle	D.C-Direct Connection			
BLO-Breaker Lock-On Device					

1 TE-0.3 PANEL A SCHEDULE

BATTERY UNIT LOAD SCHEDULE										Smith + Andersen	
PROJECT NAME: LOWER HILLSIDE WASHROOM BUILDING IMPROVEMENTS										Suite 1100 - 100 Sheppard Ave. E	
PROJECT # 23210.001.E.001										Toronto, ON M2N 6N5	
UNIT DESIGNATION	LOCATION OF BATTERY UNIT	TYPE	QUANTITIES	WATTAGE	TOTAL LOAD	VOLTAGE	TOTAL CAPACITY	MAXIMUM CAPACITY (W)	LENGTH OF RUNTIME REQUIRED (hr)		
BU-1	SERVICE ROOM A 108	R1	10	12 W	120 W	12 V	120 W	200 W	0.5		

NOTES:

- Provide all mounting shelves for installation of battery units. Size to suit.
- Provide breaker lock-on devices for all circuit(s) feeding battery units.
- The electrical contractor is to measure the illumination of the floor at night with emergency lighting on only, and send a drawing showing the maximum and minimum level of illumination, to the consulting engineer, for review. **Provide written confirmation that emergency lighting has been installed in accordance with contract documents and latest edition of the Ontario Building Code sections [3.2.7.3 and 3.2.7.4]. Letter to be included as part of close-out document submittal package.**
- Refer to drawings for exact Quantities and locations.

2 TE-0.3 BATTERY UNIT LOAD SCHEDULE

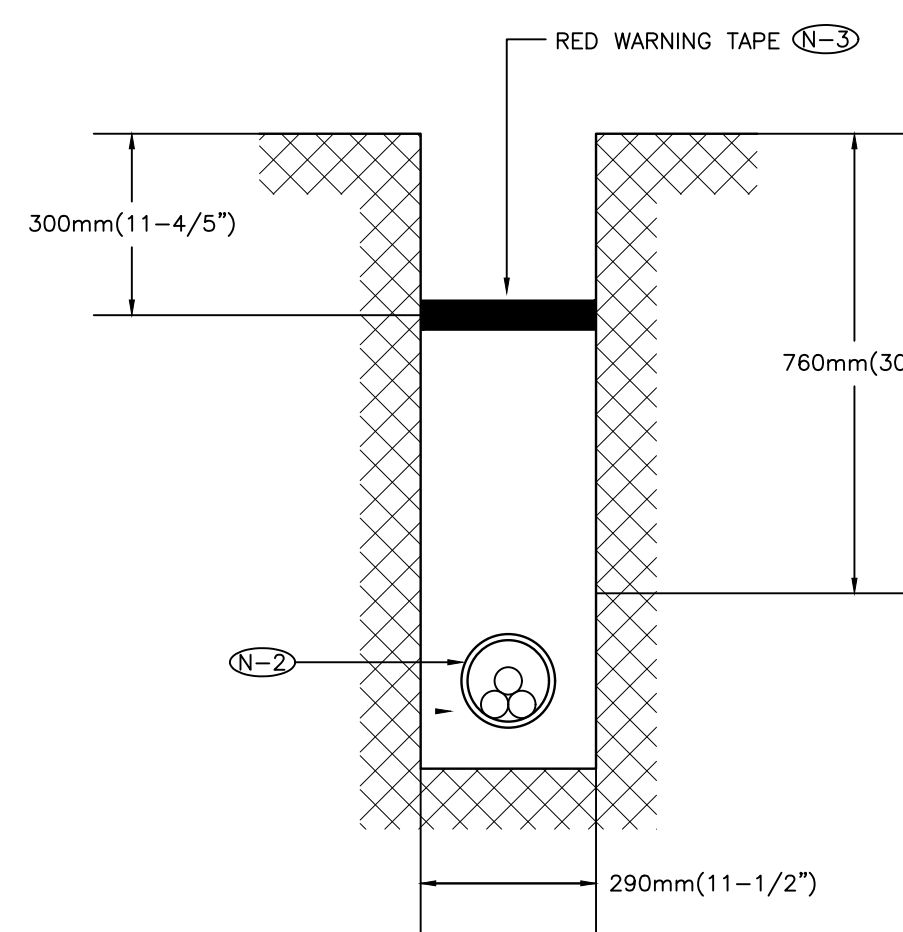
LIGHTING CONTROL SCHEDULE		
TYPE	DESCRIPTION	MANUFACTURER/CATALOGUE NO.
OS	DUAL TECH OCCUPANCY SENSOR.	WATTSTOPPER/LEGRAND CAT#: DT-355 C/W VANDAL RESISTANT WIRE GUARD

EMERGENCY LIGHTING SCHEDULE		
TYPE	DESCRIPTION	MANUFACTURER/CATALOGUE NO.
BU-1	EMERGENCY BATTERY UNIT	LUMACELL CAT#: RG12S-200
R1	VANDAL RESISTANT EMERGENCY REMOTE HEAD	LUMACELL CAT#: MQMP2NX-LD10-X-SM

LUMINAIRE SCHEDULE				
TYPE	LAMP TYPE	VOLTAGE	DESCRIPTION	MANUFACTURER/CATALOGUE NO.
A	LED	120V	EXTERIOR VANDAL RESISTANT DOWNLIGHT	BEGA 24 136
B	LED	120V	INTERIOR VANDAL RESISTANT DOWNLIGHT	BEGA 24 330

NOTES:
N-1 THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR ALL MOUNTING HEIGHTS, COLOR TEMPERATURES, AND FINISHED COLOURS PRIOR TO PROCUREMENT.

3 TE-0.3 LUMINAIRE/LIGHTING CONTROL SCHEDULE



NOTES:
N-1 9mm (3/8") POLYPROPYLENE ROPE REQUIRED IN ALL DUCTS
N-2 53mm (2") I.D. DUCT.
N-3 RED WARNING TAPE TO EXTEND THE FULL WIDTH OF TRENCH
N-4 PROVIDE BELL ENDS AT TERMINATION OF ALL DUCTS

4 TE-0.3 UNDERGROUND CONDUIT DETAIL

PROJECT CONTACT

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Issue / Revision

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Project: 23210.001.ME

Drawn: J.B.

Checked: W.Y.C./N.C.

Scale: AS SHOWN

Date: 2023.04

Sheet Title:

GROUND FLOOR ELECTRICAL LAYOUT

Drawing #:

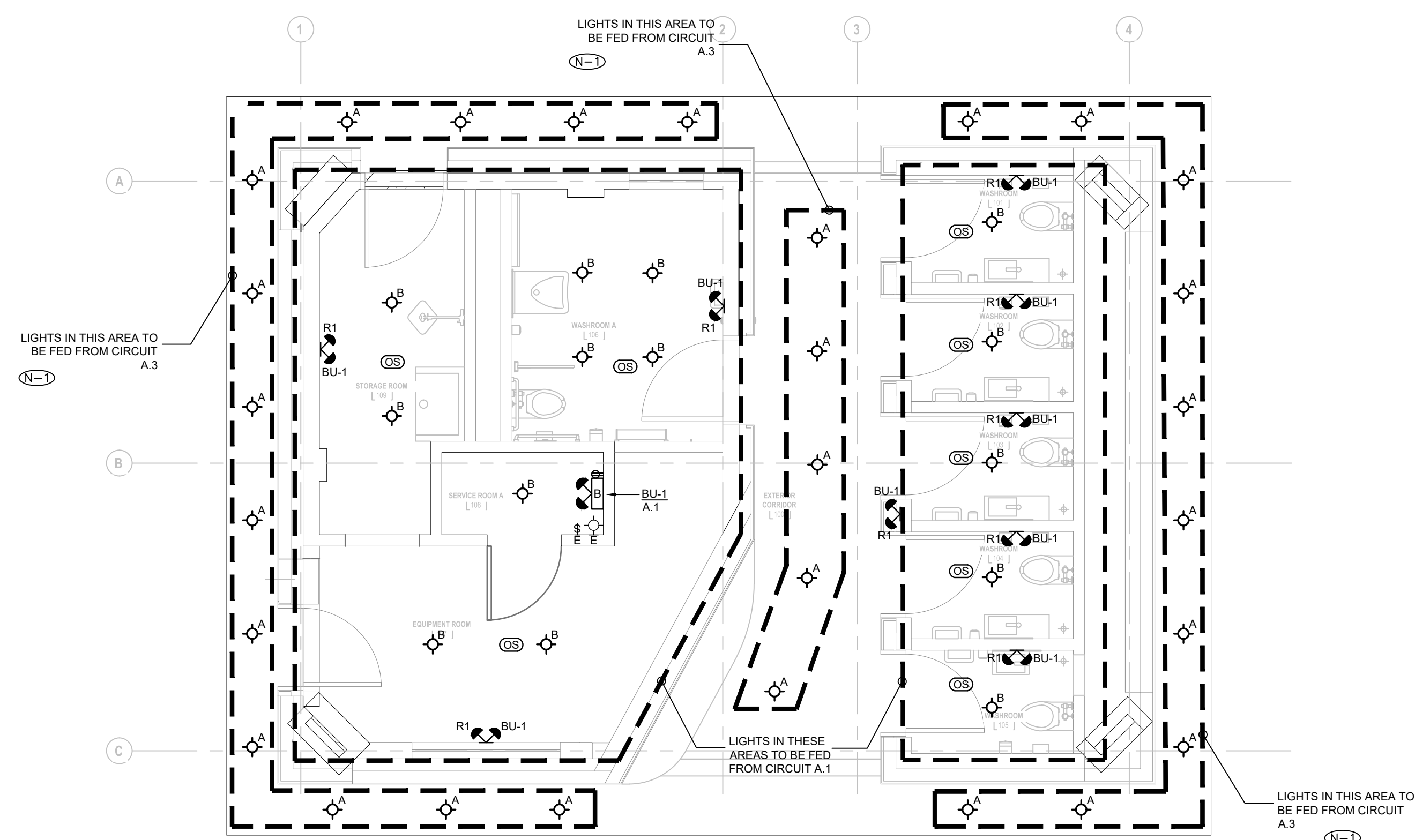
TE-1.1

GENERAL NOTES:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLEING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
- ALL NEULUMINAIRES SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER.
- MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE CONSULTING ENGINEER, FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
- ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.
- COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK WITH OTHER TRADES PRIOR TO WORK COMMENCING.
- ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 6'0" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.

DRAWING NOTES:

- (N-1) EXTERIOR LIGHTS TO BE CONTROLLED BY PHOTOCELL/TIMER. REFER TO DETAIL 3/TE-0.2.



1 LIGHTING LAYOUT
TE-1.1 1:50

SEPARATE PRICE:

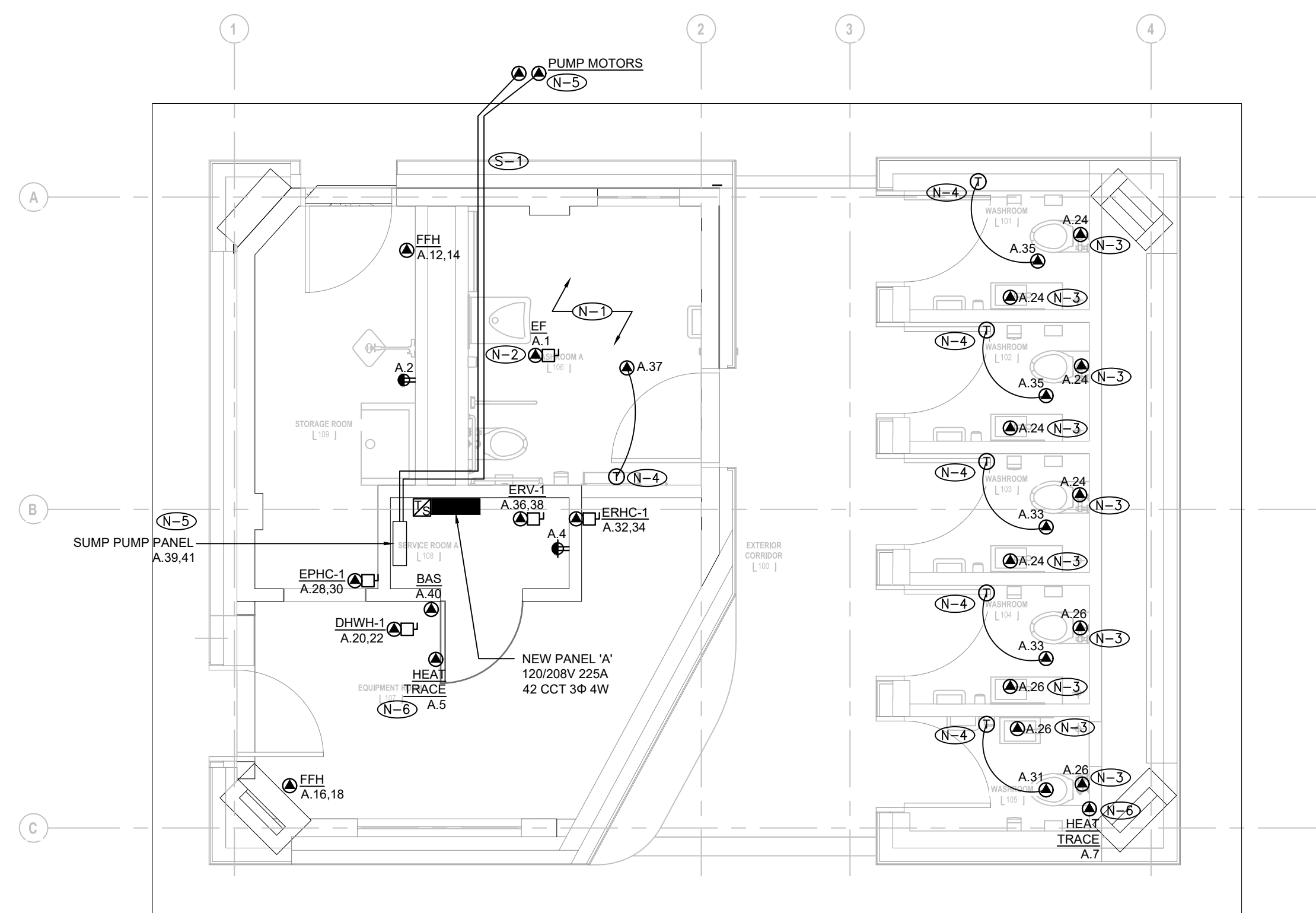
- (S-1) PROVIDE SEPARATE PRICE TO DEMOLISH EXISTING CONDUIT FROM SUMP PUMP CONTROLLER TO SUMP PIT AND TO PROVIDE NEW 2" UNDERGROUND PVC CONDUIT.

GENERAL NOTES:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLEING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
- VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWIRE CONNECTIONS FOR DISHWASHERS AND COPIERS ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
- REFER TO INTERIOR DESIGN/ARCHITECT DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING HEIGHTS.
- PROVIDE SUITABLE LABELS ON ALL RECEPTACLES. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT PRIOR TO INSTALLATION.
- CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS.
- ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
- REFER TO THE INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
- AS PART OF THE DEMOLITION CONTRACT, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL FLOOR, COLUMN, CEILING, AND WALL MOUNTED POWER, TELEPHONE/DATA OUTLETS, CABLEING AND CONDUIT NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE. VISIT THE SITE TO DETERMINE THE EXACT REQUIREMENTS AND REFER TO THE DEMOLITION DRAWINGS.

DRAWING NOTES:

- (N-1) REFER TO DETAIL 1/TE-0.2 FOR UNIVERSAL WASHROOM SCHEMATIC AND FLOOR PLAN.
- (N-2) EXHAUST FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
- (N-3) POWER CONNECTION FOR AUTO FAUCET/FLUSH. COORDINATE WITH MECHANICAL FOR EXACT REQUIREMENTS AND LOCATION ON SITE.
- (N-4) PROVIDE POWER TO RADIANT CEILING PANEL. PANEL TO BE CONTROLLED BY LINE-VOLTAGE THERMOSTAT. THERMOSTAT SUPPLIED BY MECHANICAL. INSTALLED BY ELECTRICAL. COORDINATE LOCATION WITH MECHANICAL ON SITE.
- (N-5) POWER TO SUMP PUMP MOTORS FED VIA PUMP CONTROL CONTROL PANEL. FEED POWER TO PUMPS VIA EXISTING CONDUIT. CONFIRM EXACT LOCATION AND ROUTING ON SITE.
- (N-6) POWER FOR HEAT TRACING. COORDINATE LOCATION WITH MECHANICAL.



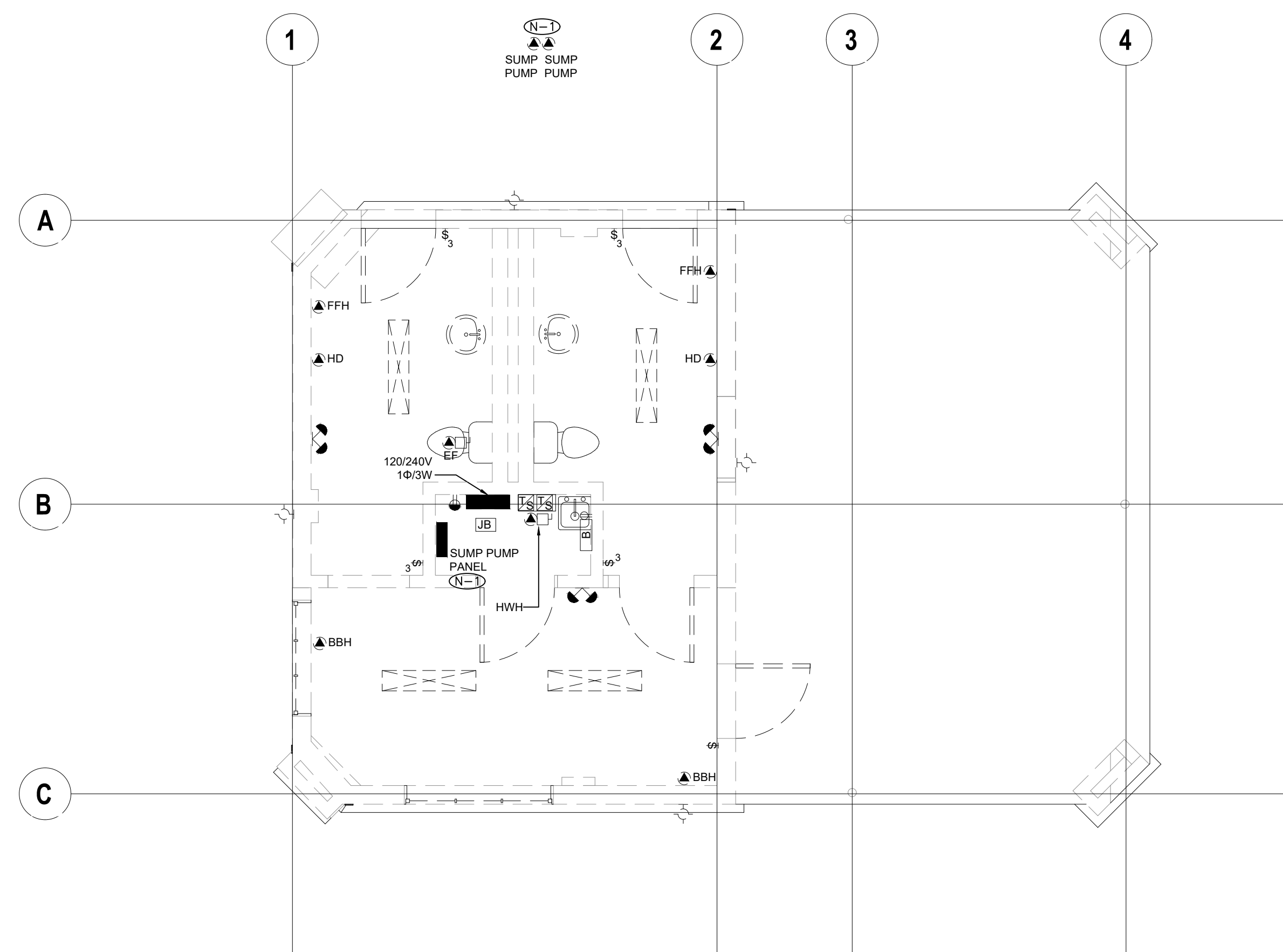
2 POWER AND SYSTEMS LAYOUT
TE-1.1 1:50

GENERAL NOTES:

1. REFER TO THE ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
2. REMOVE ALL FLOOR, COLUMN, CEILING, AND WALL MOUNTED POWER, TELEPHONE/DATA OUTLETS, CABLING AND CONDUIT NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE. VISIT SITE TO DETERMINE EXACT REQUIREMENTS AND REFER TO DEMOLITION DRAWINGS.
3. MAKE GOOD ALL CORE HOLES FROM ELECTRICAL EQUIPMENT AND DEVICES DISCONNECTED, RELOCATED AND OR REMOVED IN THIS PROJECT.
4. REMOVE FLOOR MONUMENT(S) AND ALL ASSOCIATED CONDUIT(S) AND WIRE BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS TO COMPLY WITH CURRENT LOCAL APPLICABLE CODES.
5. ENSURE THAT ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE, REMAIN LIVE OPERATIONAL, ISOLATED AND PROTECTED DURING CONSTRUCTION.
6. NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
7. COORDINATE WITH GENERAL CONTRACTOR AND LANDLORD FOR DISPOSAL OF ALL MATERIALS FROM SITE.

DRAWING NOTES:

- (N-1) EXISTING FEEDERS FOR SUMP PUMP EQUIPMENT TO BE REMOVED BACK TO SOURCE AND MADE SAFE.



PROJECT CONTACT

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Project: 23210.001.ME
Drawn: J.B.
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GROUND FLOOR ELECTRICAL DEMOLITION LAYOUT

Drawing #:

TE-1.2