

# 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

S1.1	GENERAL NOTES
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## MECHANICAL ENGINEERING

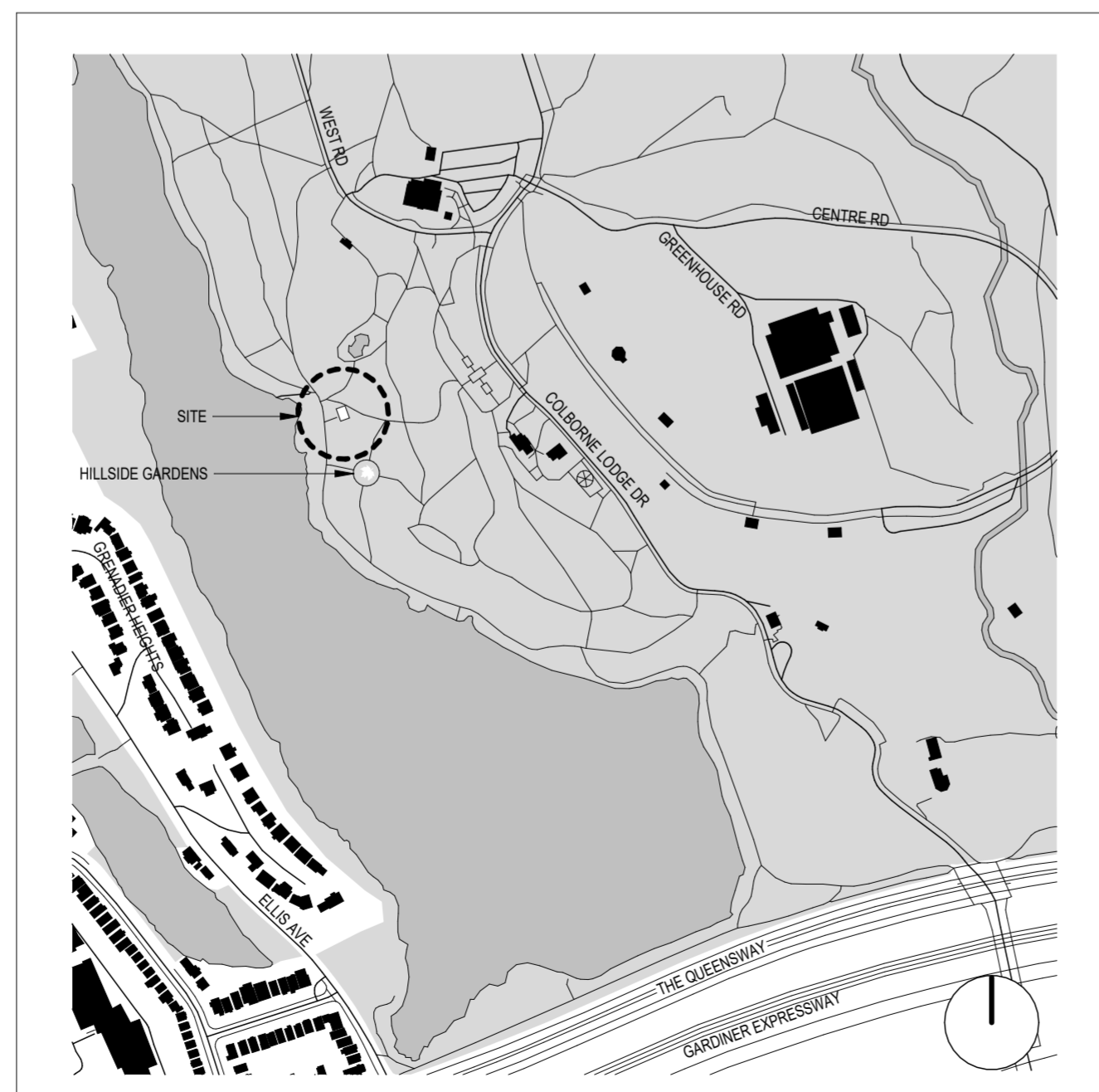
SMITH + ANDERSEN  
100 Sheppard Ave East  
North York, ON M2N 6N5

TM-0.0	MECHANICAL DRAWING LIST AND LEGENDS
TM-0.1	MECHANICAL STANDARD DETAILS
TM-1.1	GROUND FLOOR PLUMBING & DRAINAGE DEMOLITION LAYOUT
TM-1.2	GROUND FLOOR HVAC DEMOLITION LAYOUT
TM-2.1	GROUND FLOOR PLUMBING & DRAINAGE LAYOUT
TM-3.1	GROUND FLOOR HVAC LAYOUT

## 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 <sup>2</sup> ):	Description LEVEL 1 Existing 30m <sup>2</sup> New 46m <sup>2</sup> Total 76m <sup>2</sup> [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
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
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COVER PAGE

**INTERIOR FINISHES LEGEND**  
REFER TO SPECIFICATIONS, FOR PRODUCT INFORMATION.

**FLOOR FINISHES**

**FLOOR TILE:**  
EPX  
EPOXY FLOORING  
SC  
SEALED CONCRETE FLOORING  
**FLOOR/WALL BASE:**  
B1  
INTEGRAL EPOXY BASE  
B2  
RUBBER BASE  
REFER TO SPECIFICATIONS.  
B3  
TILE BASE  
TO MATCH WT-1

**WALL FINISHES**

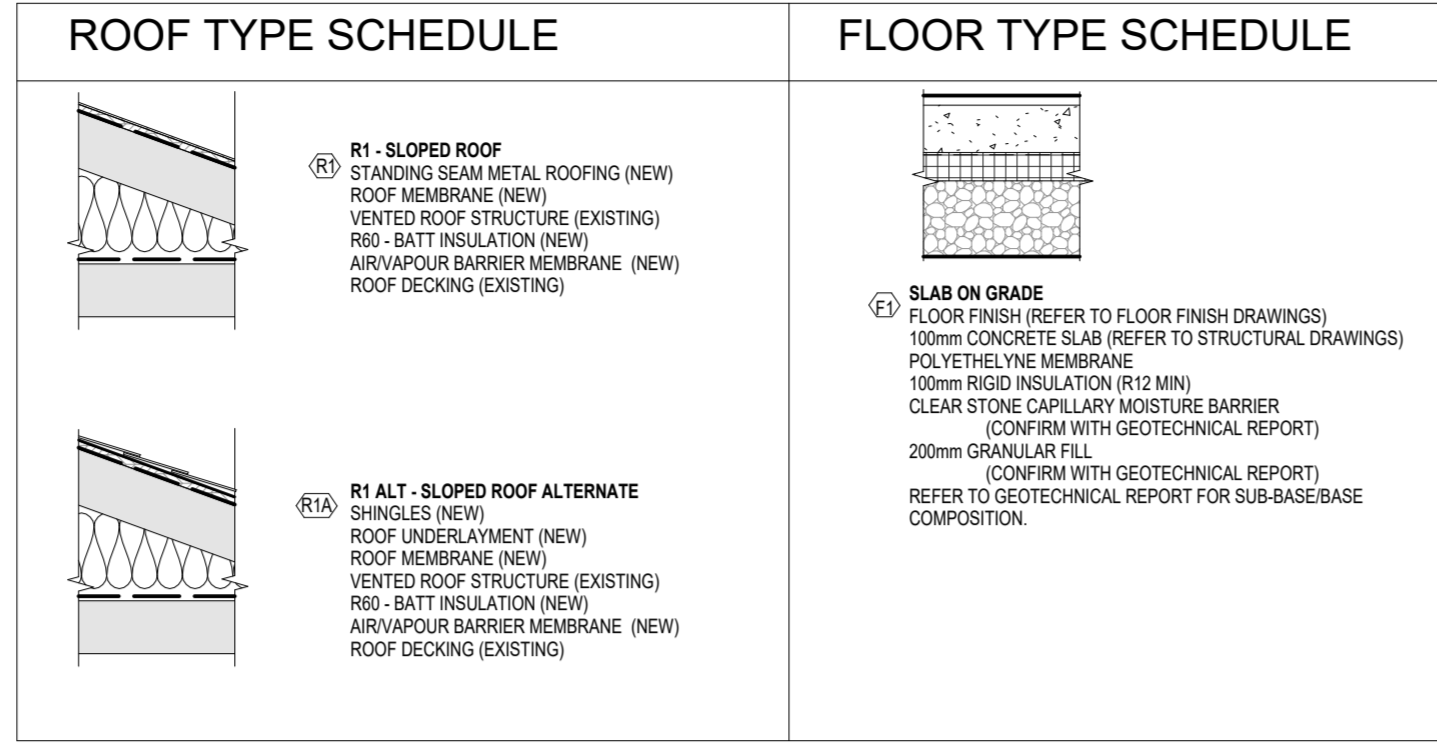
**ARCHITECTURAL CONCRETE BLOCK:**  
CMU-1  
MANUFACTURER: BRAMPTON BRICK  
SERIES: PROFILE  
COLOUR: ICELAND WHITE  
FINISH: SVAUE  
SIZE: AS SHOWN ON WALL TYPE  
BOND: STACKED  
**STANDARD CONCRETE BLOCK:**  
CMU-2  
MANUFACTURER: BRAMPTON BRICK  
SERIES: CarboClave Block  
SIZE: AS SHOWN ON WALL TYPE  
BOND: RUNNING  
**WALL TILE**  
WT-1  
MANUFACTURER: STONETILE  
SERIES: JOINT  
COLOUR: TERRACOTTA  
FINISH: MATTE  
SIZE: 7x28x1cm

**PAINT:**

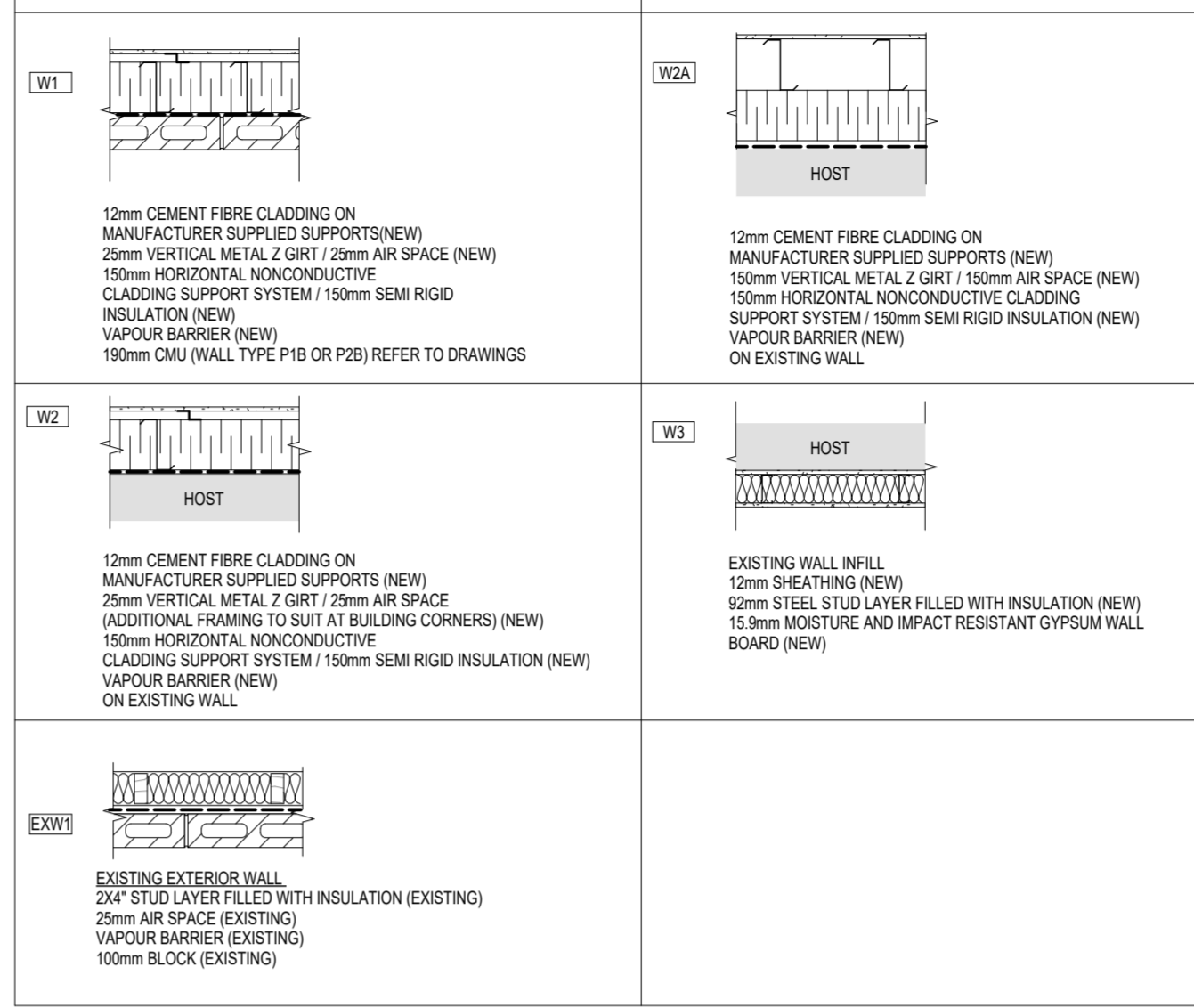
PT-1  
FIELD  
COLOUR NO.: SW 7034  
COLOUR NAME: SNOWBOUND  
MANUFACTURER: SHERWIN WILLIAMS  
PT-2  
DOORS/FRAMES (WHITE ACCENT)  
COLOUR NO.: SW 8542  
COLOUR NAME: NATURAL WHITE  
MANUFACTURER: SHERWIN WILLIAMS  
PT-3  
DOORS/FRAMES (RED ACCENT)  
COLOUR NO.: SW 6613  
COLOUR NAME: LEI FLOWER  
MANUFACTURER: SHERWIN WILLIAMS

**CEILING FINISHES**

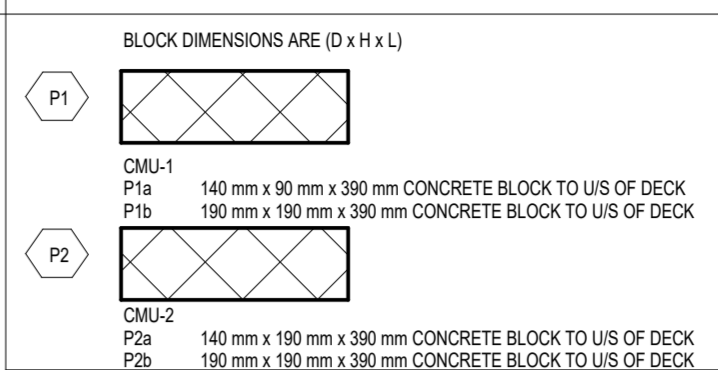
C1  
15mm GYPSUM BOARD ON STEEL STUD FRAMING  
PAINTED PT-1



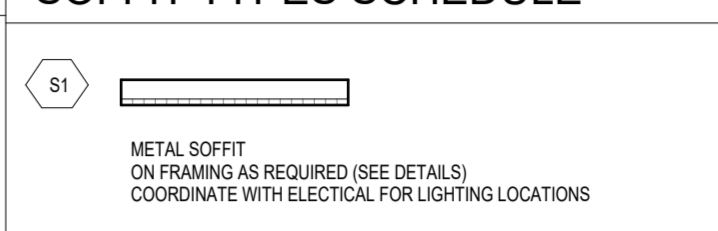
**WALL TYPES SCHEDULE**



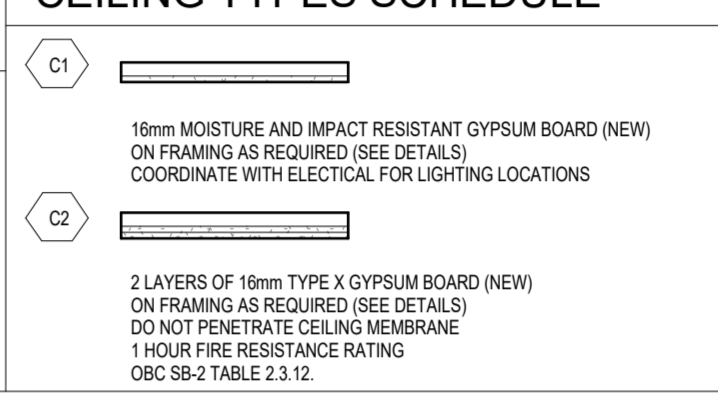
**PARTITION TYPES SCHEDULE**



**SOFFIT TYPES SCHEDULE**



**CEILING TYPES SCHEDULE**



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

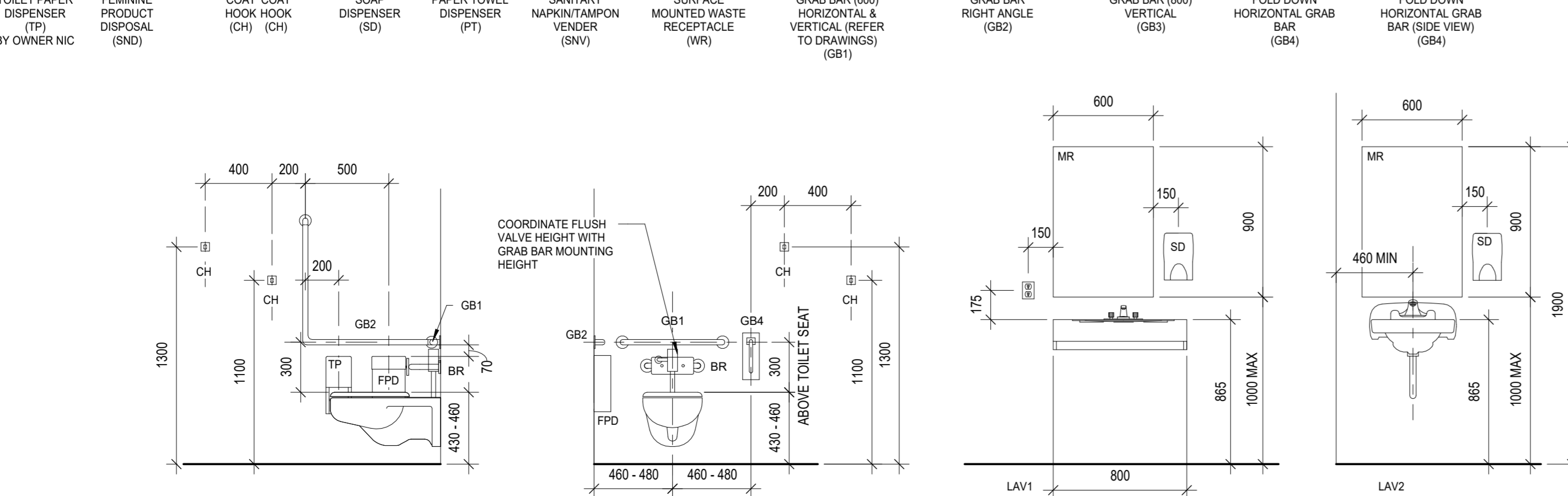
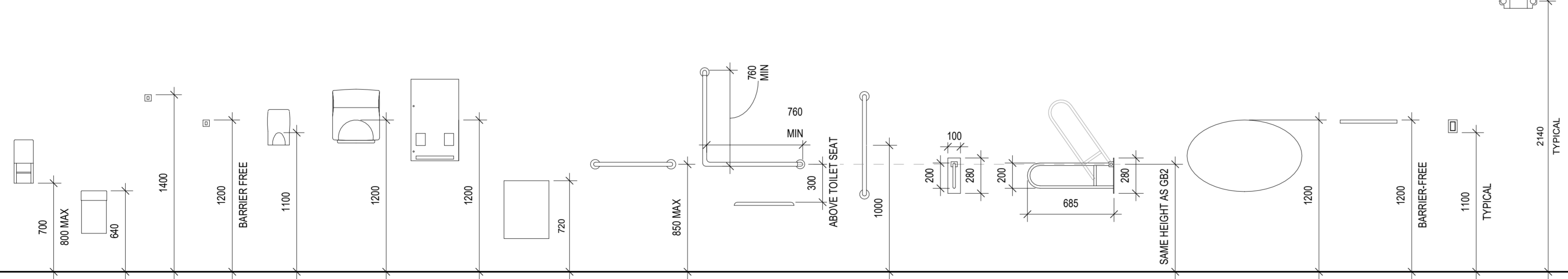
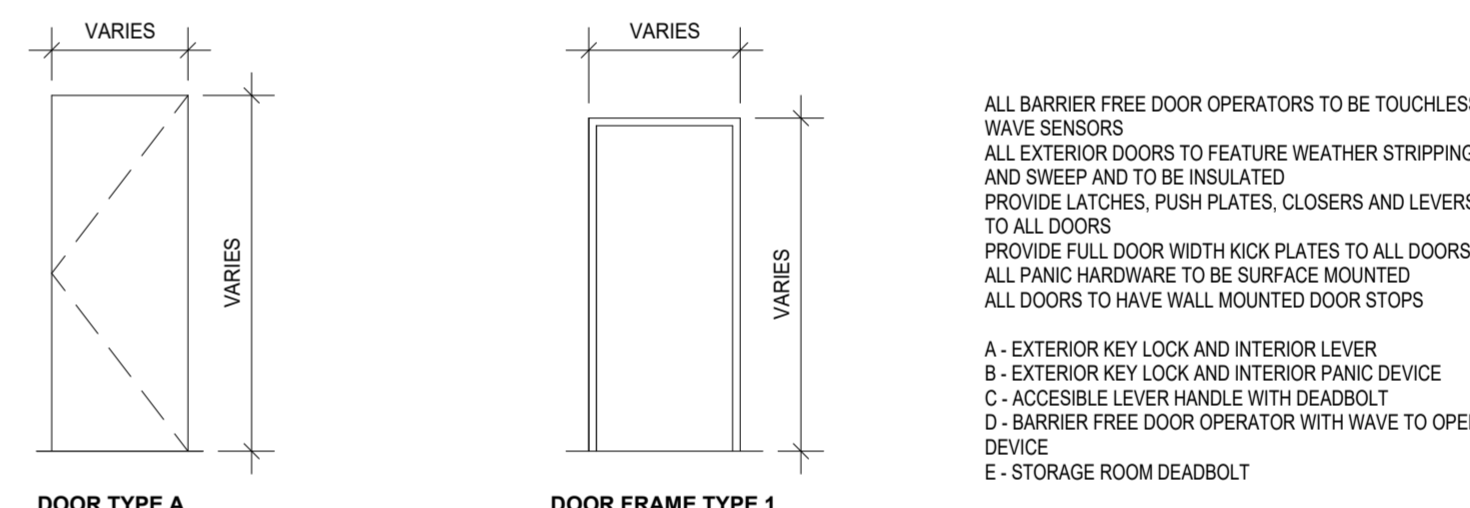
DEGREE DAYS BELOW 18°C CLIMATE ZONE	3520	5
<b>ASSEMBLY</b>	<b>MAX. ASSEMBLY U VALUE (W/m²K)</b>	<b>MIN. INSULATION R-VALUE (ft²·F·hr/Btu)</b>
ABOVE GROUND OPAQUE WALLS (Mass)	0.307	R17.0 ci
ABOVE GROUND OPAQUE WALLS (Steel Framed)	0.281	R13.0 + R12.0 ci
OPAQUE ROOFS (Insulation above deck)	0.164	R35.0 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	

**ROOM FINISH SCHEDULE - PAGE 1**

NUMBER	ROOM NAME	FLOOR FIN	BAS E	NORTH		EAST		SOUTH		WEST		CEILING		COMMENTS
				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	EX CMU-2	WT1	EX CMU-2	WT1	GWB	PT-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		EXP		EXISTING FINISHES TO REMAIN
109	STORAGE ROOM	SC	B2	EX		CMU-2		EX		EX		GWB	PT-1	

DOOR NO.	ROOM NAME	DOOR					FRAME			FROM ROOM	TO ROOM	HARDWARE GROUP	BF OPERATOR	COMMENTS	
		WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	FINISH	FIRE RATING	MATERIAL						TYPE
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	

**DOOR TYPES LEGEND DOOR FRAME LEGEND**



**MATERIAL**  
AL ALUMINUM  
IM INSULATED METAL  
HM HOLLOW METAL  
SWD SOLID WOOD DOOR  
PS PRESSED STEEL  
IPS INSULATED PRESSED STEEL  
DF DECORATIVE FENCE  
GL GLASS  
EX EXISTING

**FINISHES**  
CA CLEAR ANODIZED  
PT PAINT  
MF MANUFACTURE FINISH  
CC CLEAR COAT  
PF PRE-FINISHED ALUMINUM

**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

**ACCESSORY LEGEND**

BC	BABY CHANGE TABLE
EL	EMERGENCY LIGHT
GB1	90 DEG BARRIER FREE GRAB BAR
GB2	HORIZONTAL GRAB BAR
GB3	URNAL 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

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

No.	Date	Description
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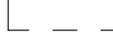

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LEGENDS, SCHEDULES, GENERAL NOTES



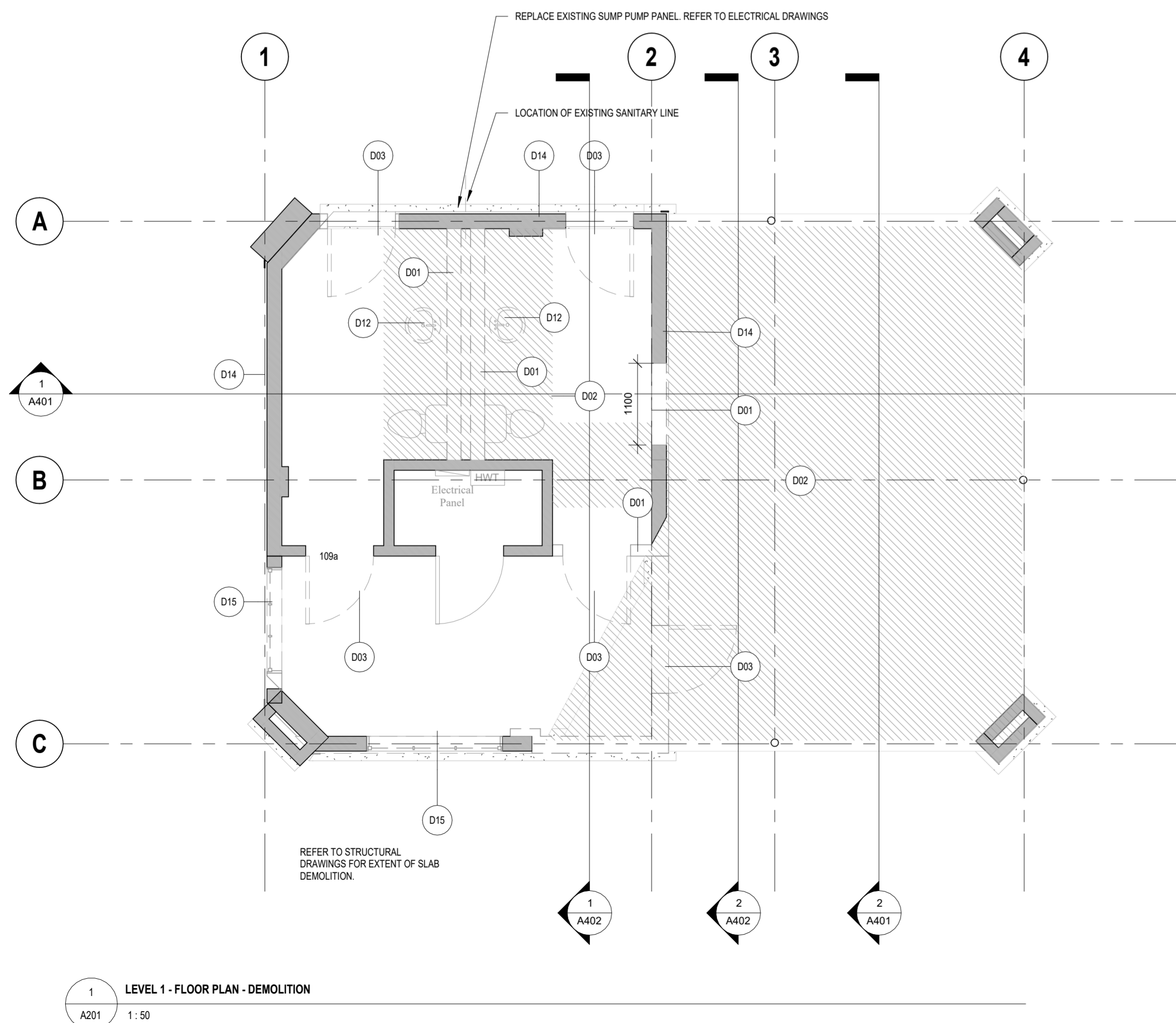
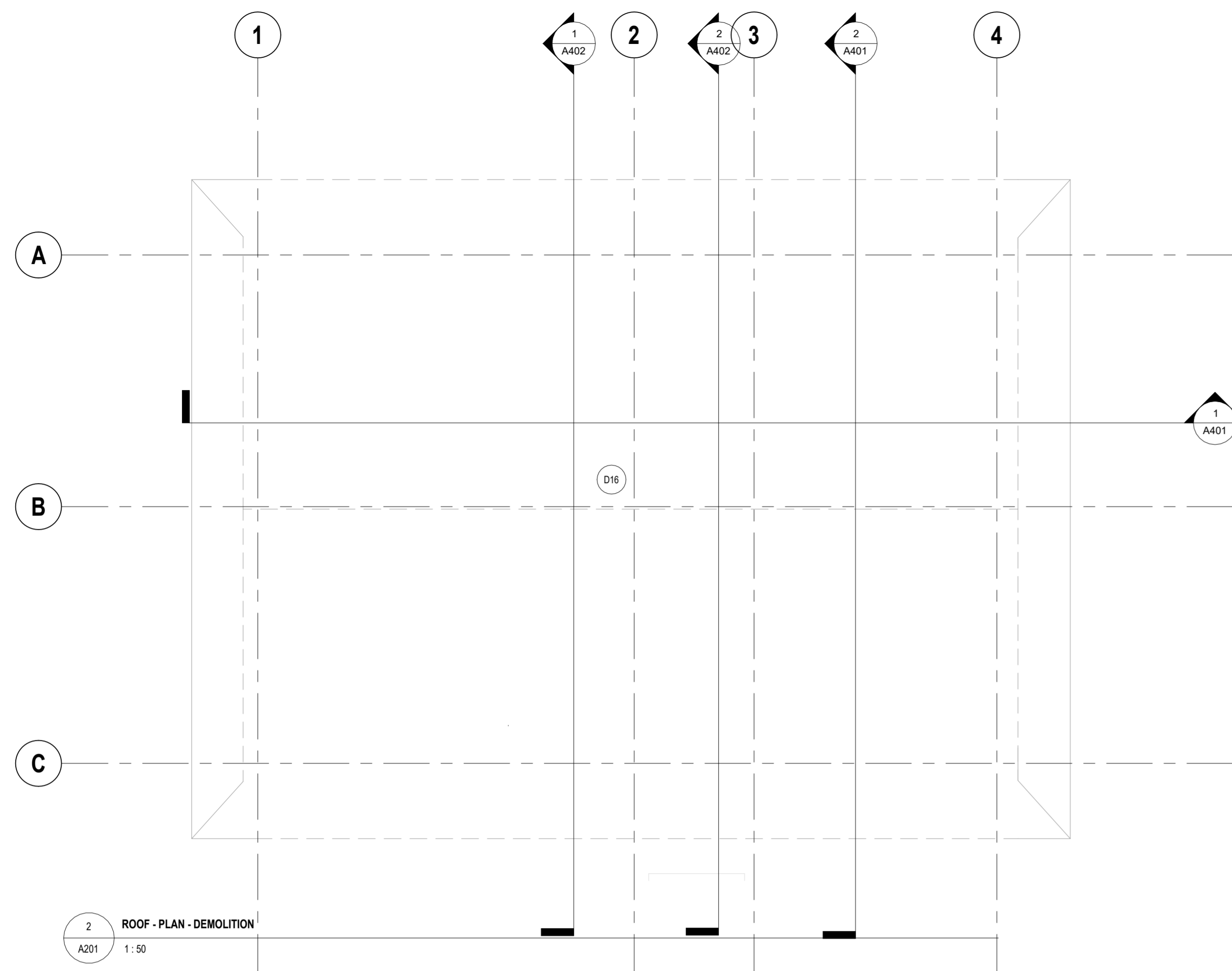
DEMOLITION LEGEND

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

DEMOLITION NOTES

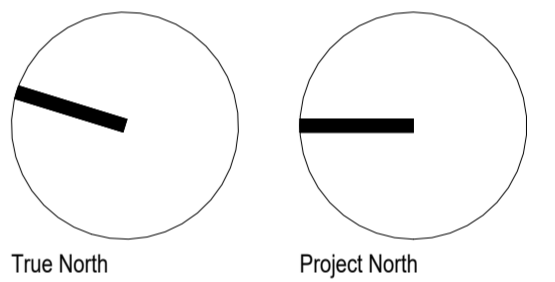
1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
3. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE 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 SOFFIT. REFER TO DETAIL DRAWINGS.



3 EXISTING EXTERIOR VIEW  
A201 1:10

- REMOVE SHEATHING FROM GABLE END
- ASPHALT ROOFING AND SHEATHING TO BE REMOVED. ROOF TO BE MADE GOOD FOR NEW ROOFING. TYPICAL.
- EXTERIOR LIGHT FIXTURES TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS.
- PUMP EQUIPMENT TO BE RELOCATED TO BUILDING INTERIOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
- STEEL COLUMNS TO REMAIN. MAKE GOOD FOR NEW PAINT.
- BRICK AND CONCRETE COLUMNS TO REMAIN.



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LEVEL 1 - DEMOLITION PLAN

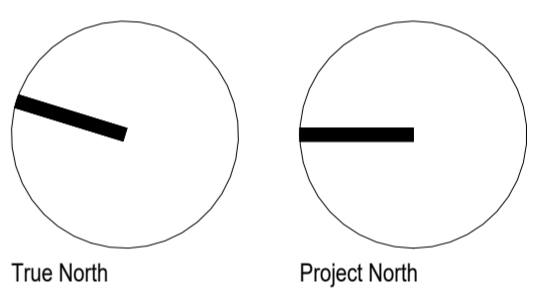
A201

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
<b>GENERAL NOTES:</b>	
1.	REFER TO DRAWING A011 FOR DOOR AND FRAME TYPES.
2.	REFER TO DRAWING A010 FOR CONSTRUCTION TYPES, PARTITION TYPES AND SYMBOLS.
3.	REFER TO DRAWING A020 FOR ROOM FINISH SCHEDULE.
4.	REFER TO DRAWING A002 FOR FIXTURE MOUNTING HEIGHTS.
5.	PUSH BUTTON OPENER: REFER TO DOOR SCHEDULE.
6.	HELP CALL BUTTON: REFER TO ELECTRICAL DRAWINGS.
7.	HB - HOSE BIBB: REFER TO MECHANICAL DRAWINGS.

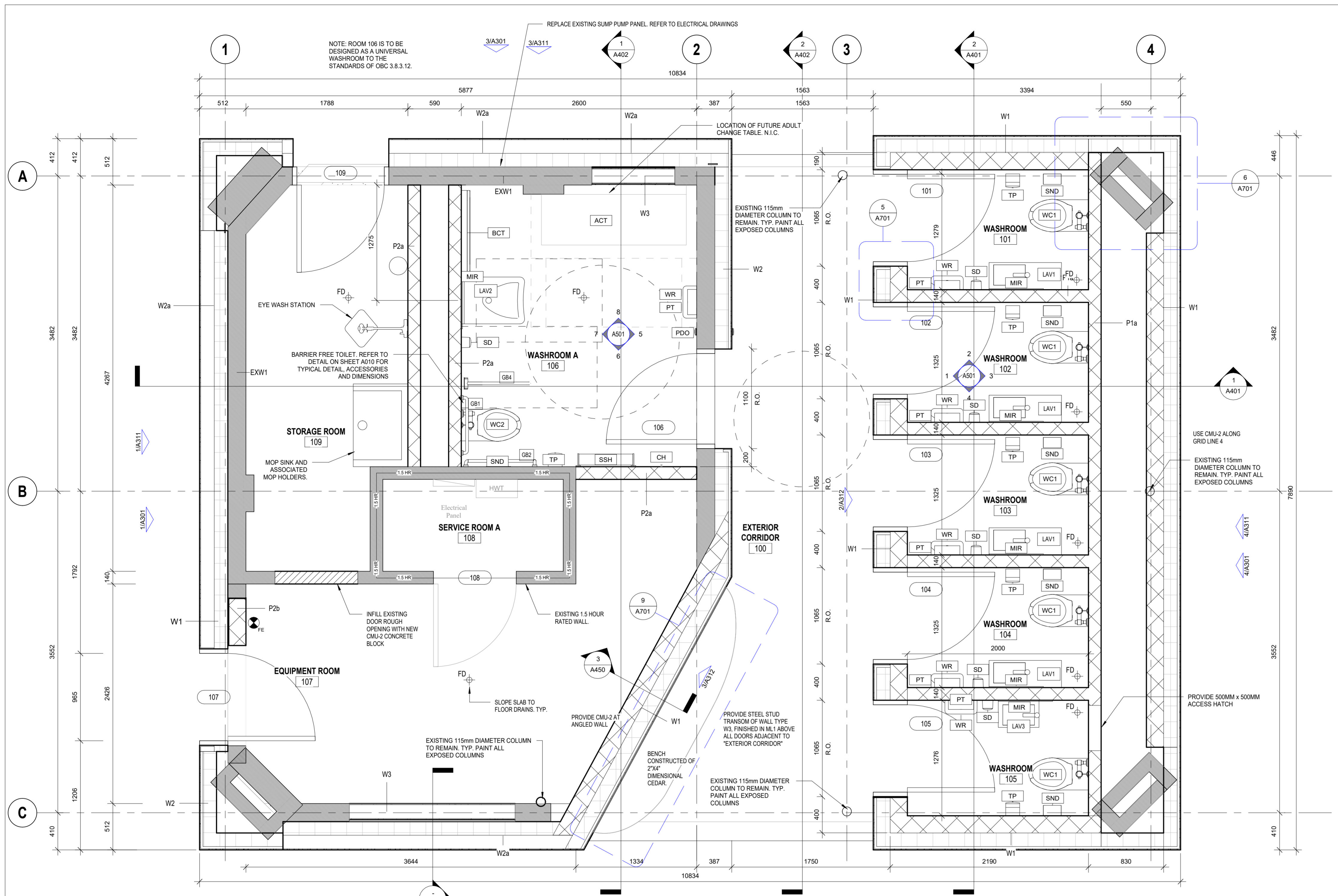
ACCESSORY LEGEND

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
PD	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



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

No.	Date	Description
2222		

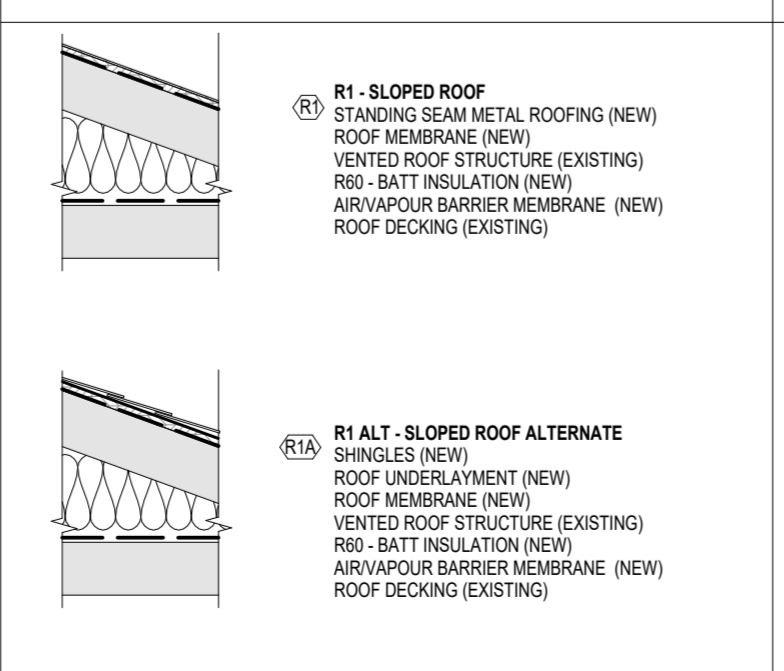


2 LEVEL 1 - FLOOR PLAN - PROPOSED  
A211 1:25

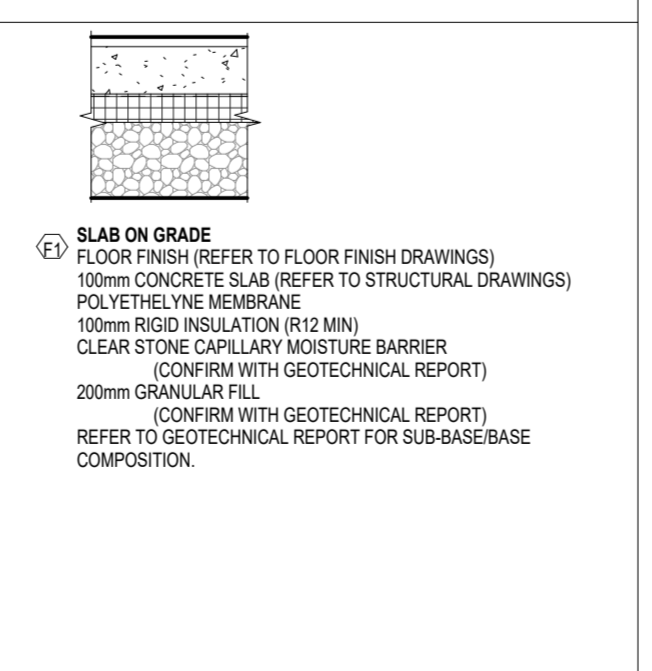
GENERAL CONSTRUCTION NOTES

- 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 DIMENSION 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 MILLICORE 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 CEILINGS 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 38641 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 OBC 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.

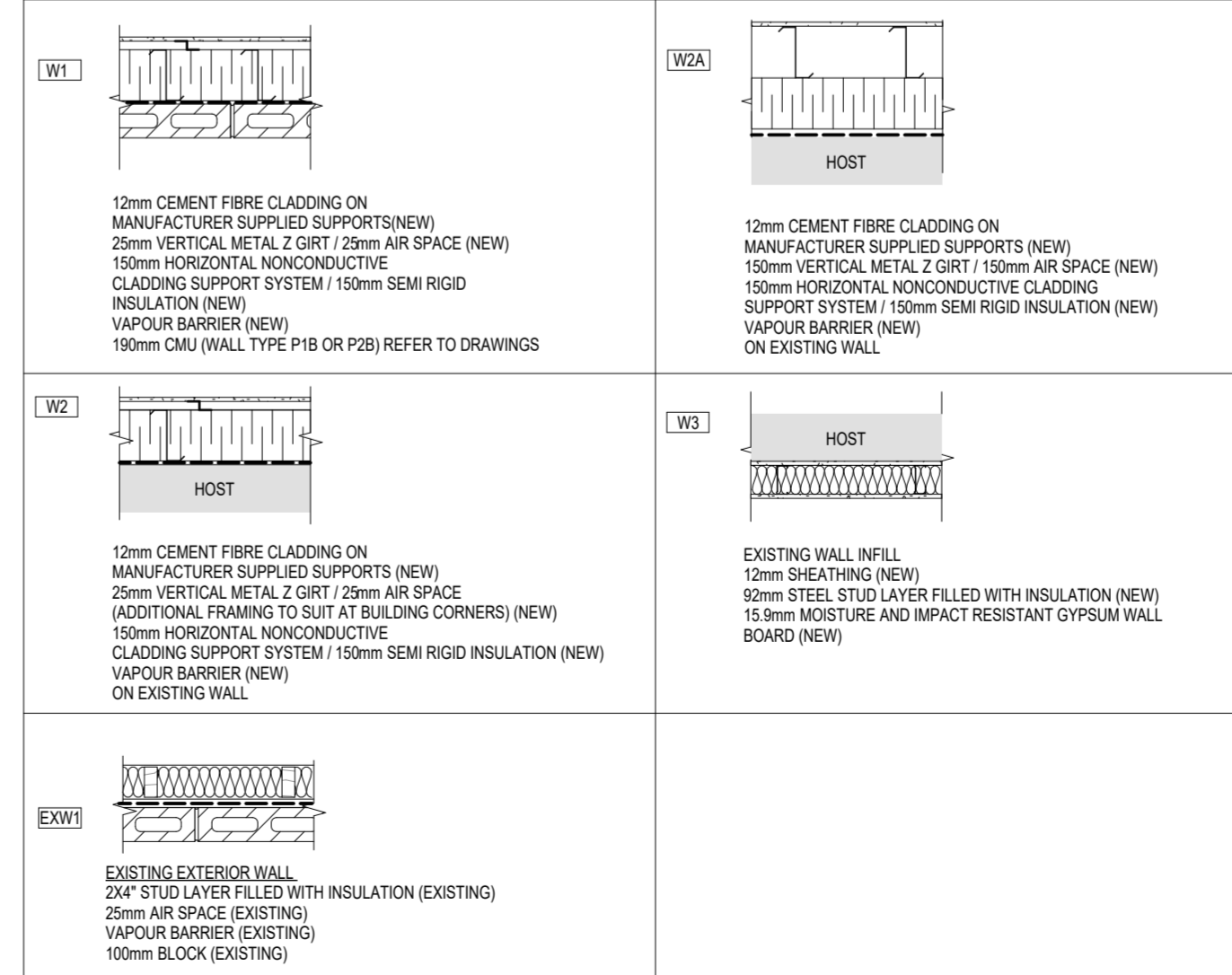
ROOF TYPE SCHEDULE



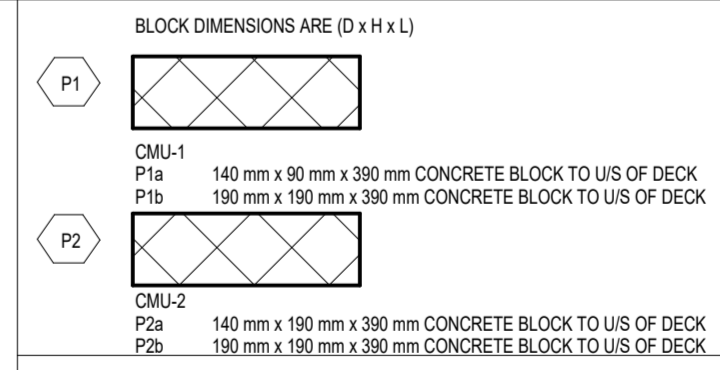
FLOOR TYPE SCHEDULE



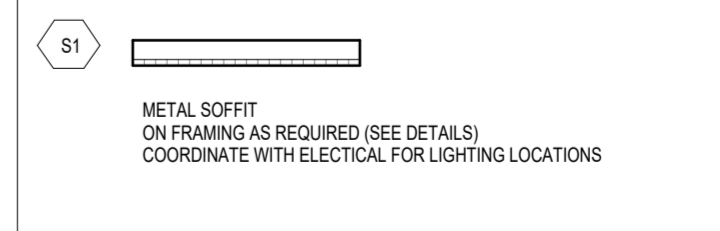
WALL TYPES SCHEDULE



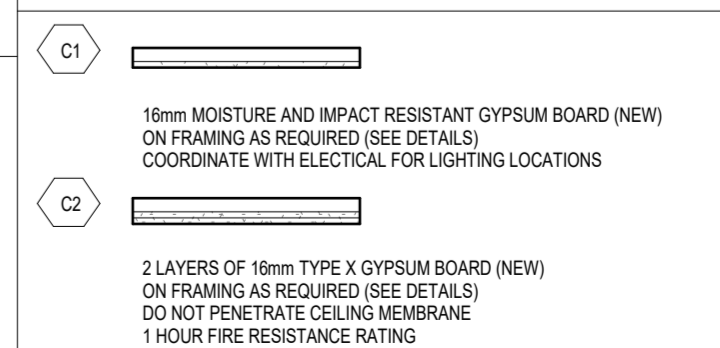
PARTITION TYPES SCHEDULE



SOFFIT TYPES SCHEDULE



CEILING TYPES SCHEDULE



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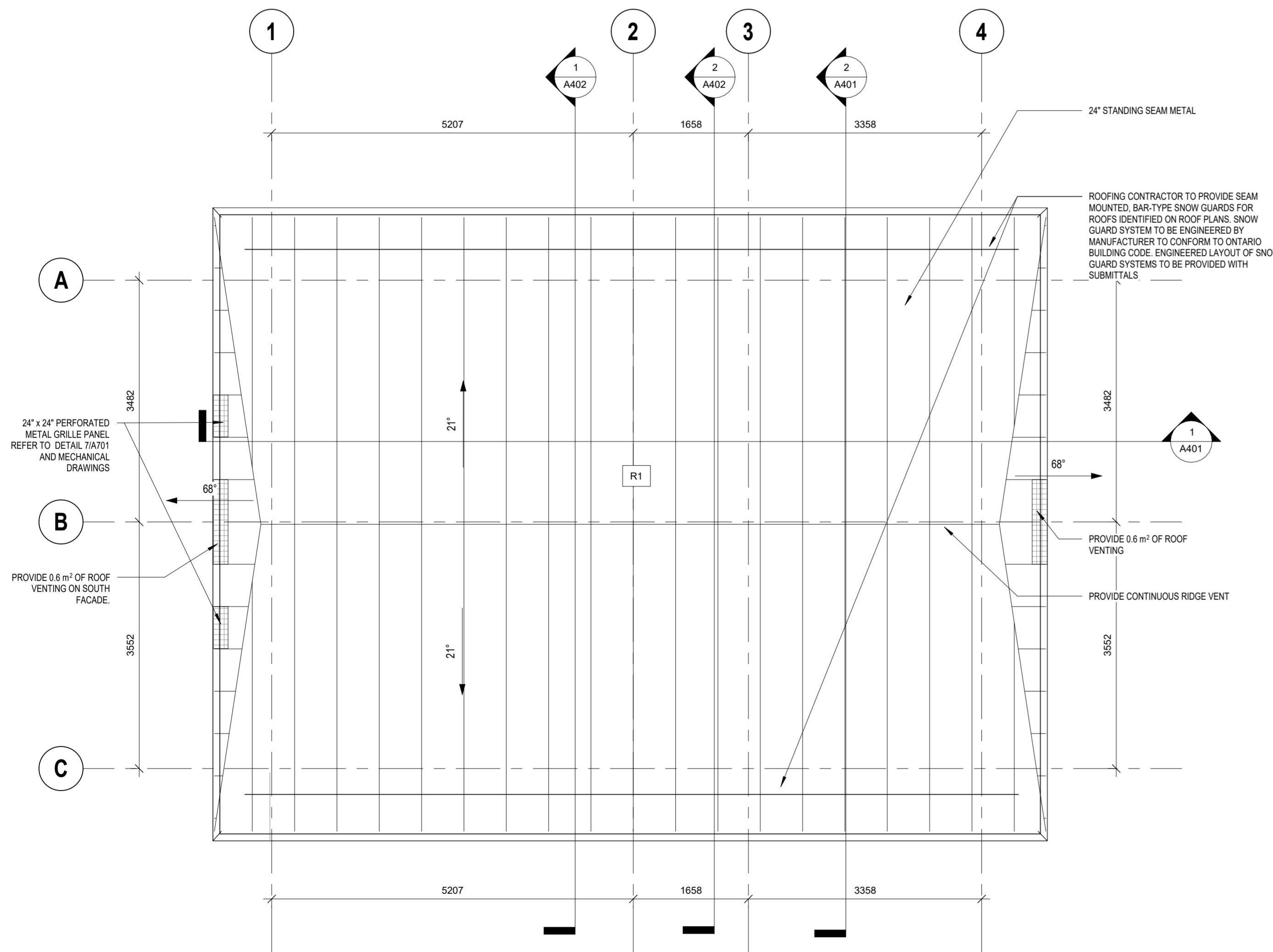
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Date: AUGUST 7, 2024

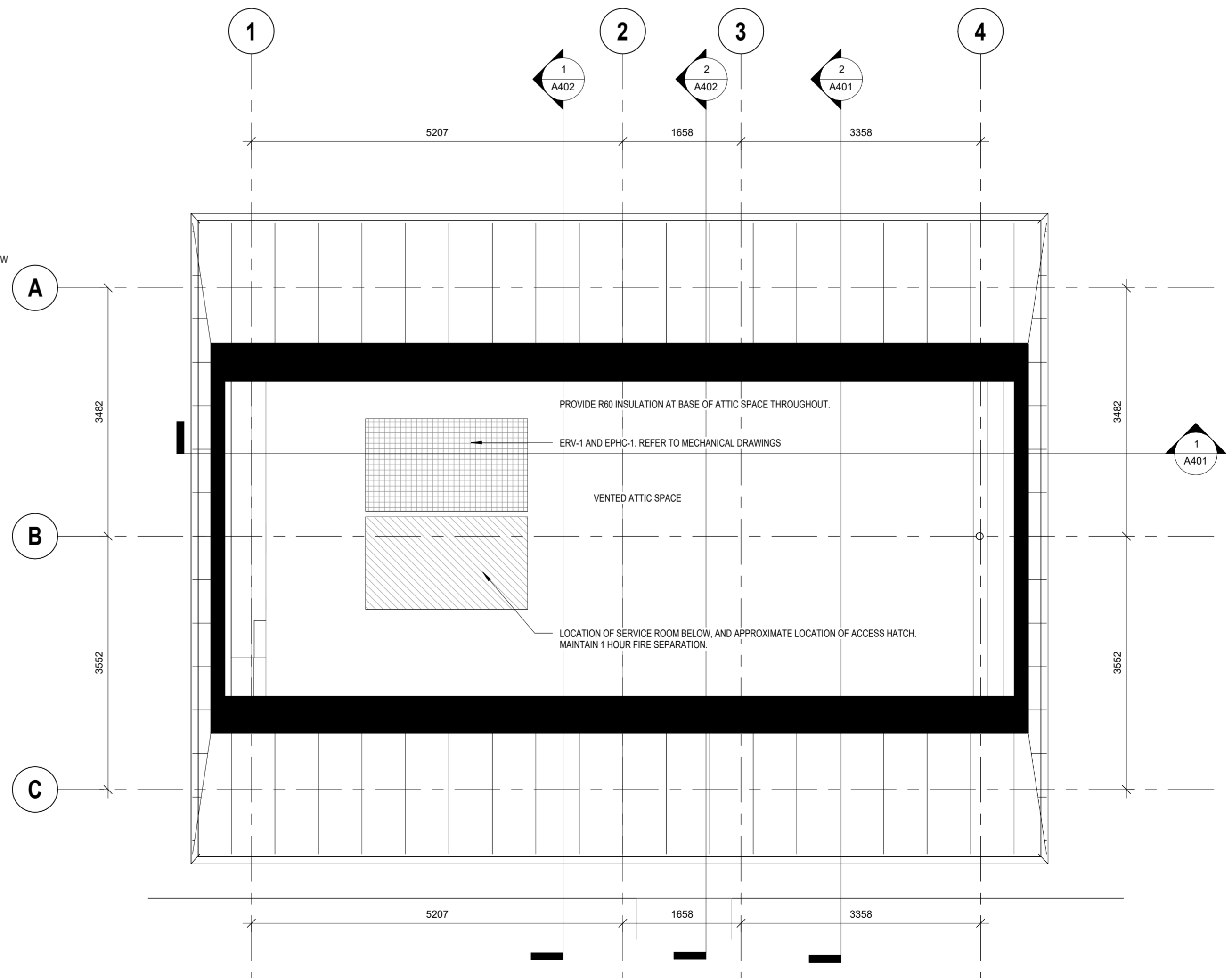
LEVEL 1 - PROPOSED PLAN

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
  - B. FACE OF GYPSUM BOARD AT INTERIOR WALLS
  - 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.
6. WHERE TWO WALL TYPES ARE 'COMMON' TO ONE WALL - CONTRACTOR TO COORDINATE CONSTRUCTION, FINISHES, AND FIRE RATING AS REQUIRED TO PROVIDE CONTINUITY OF FIRE RATED WALLS.
7. FIRE OR SOUND RATED WALL ASSEMBLIES LOCATED ABOVE SUSPENDED CEILING SHALL HAVE GYPSUM BOARD JOINTS FIRE TAPED.
8. 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.
9. INSULATE ANY STUD SPACE CONTAINING MECHANICAL PIPING IF THE SPACE IS OTHERWISE NOT INSULATED (EVEN IF PIPING ITSELF IS INSULATED).
10. PROVIDE ACCESS FOR DRAINAGE AND R.W.L. CLEAN OUTS AS REQUIRED.
11. 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.
12. 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.
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

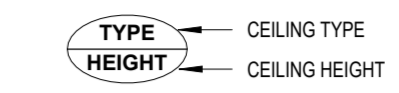
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ROOF - PROPOSED PLAN

CEILING LEGEND

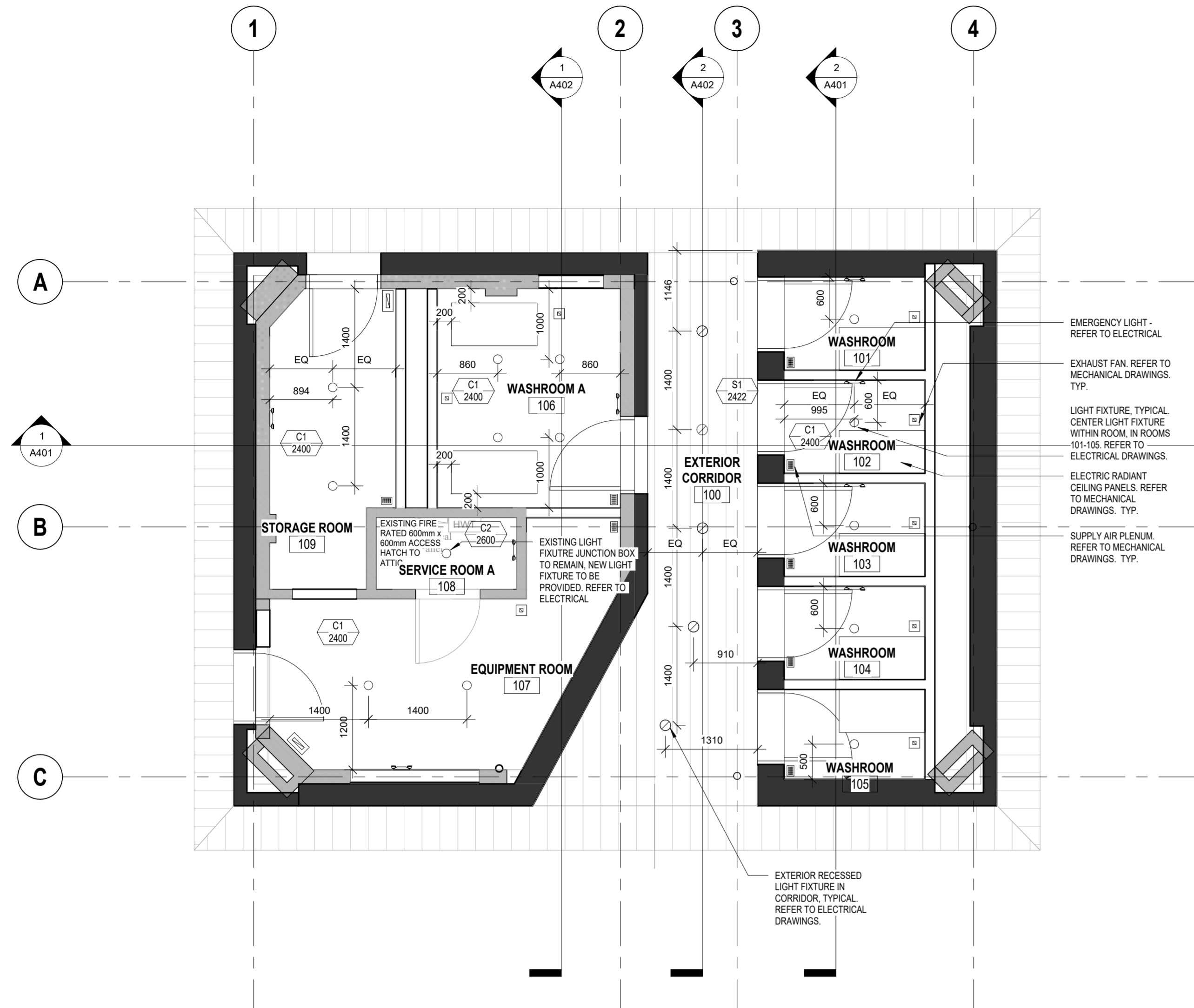


CEILING NOTES

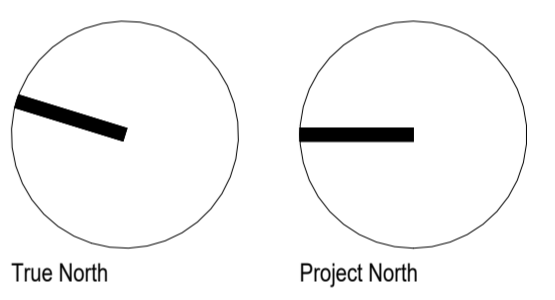
1. CEILING HEIGHTS FOR EXPOSED STRUCTURE NOTED AS UNDERSIDE OF DECK. REFER TO WALL SECTIONS.
2. REFLECTED CEILING PLAN TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL CONSULTANT DRAWINGS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR FURTHER DUCTING AND LIGHTING INFORMATION.
3. ALL CEILING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

SOFFIT TYPES

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



1 LEVEL 1 REFLECTED CEILING PLAN  
A221 1:50



Lower Hillside Washroom Building  
Improvements  
City of Toronto  
1873 BLOOR ST W  
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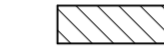


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LEVEL 1 - REFLECTED CEILING PLAN  
PROPOSED

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 SOFFT. REFER TO DETAIL DRAWINGS.

DEMOLITION LEGEND



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

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. 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.



ELEVATION LEGEND + NOTES

-  1. EXISTING BRICK TO BE DEMOLISHED AND PREPARED FOR RE-USE.
-  2. INFILL EXISTING OPENINGS IN BRICK WALL WITH RECLAIMED BRICK. MATCH COURSING, JOINTS AND MORTAR TO ADJACENT BRICK. ENSURE CONTINUOUS WATERPROOFING BETWEEN OLD AND NEW WALL. INFILL EXISTING WINDOW WELLS WITH GRAVEL.

Lower Hillside Washroom Building Improvements

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

No.	Date	Description
2222		

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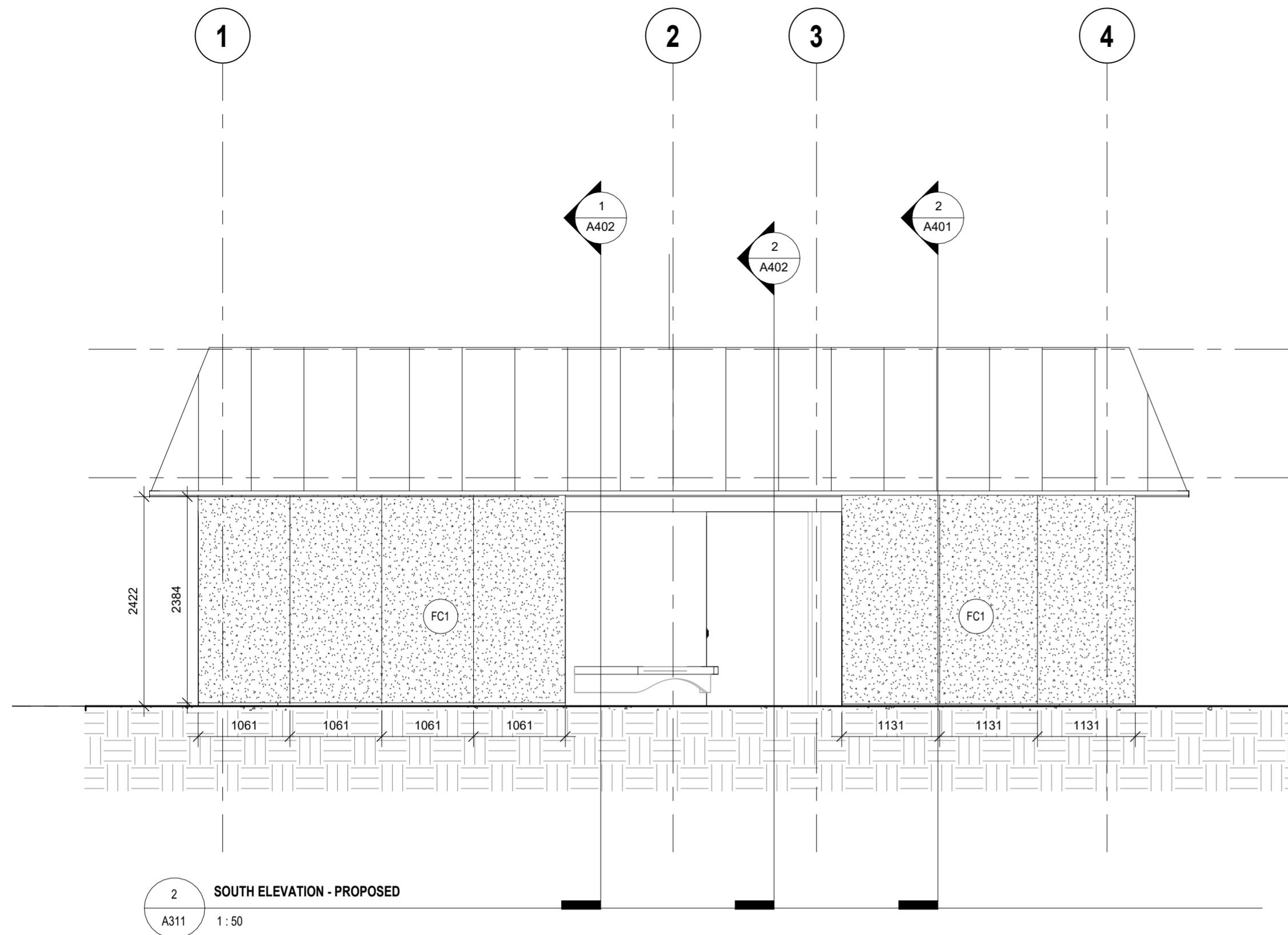
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EXTERIOR ELEVATIONS - DEMOLITION

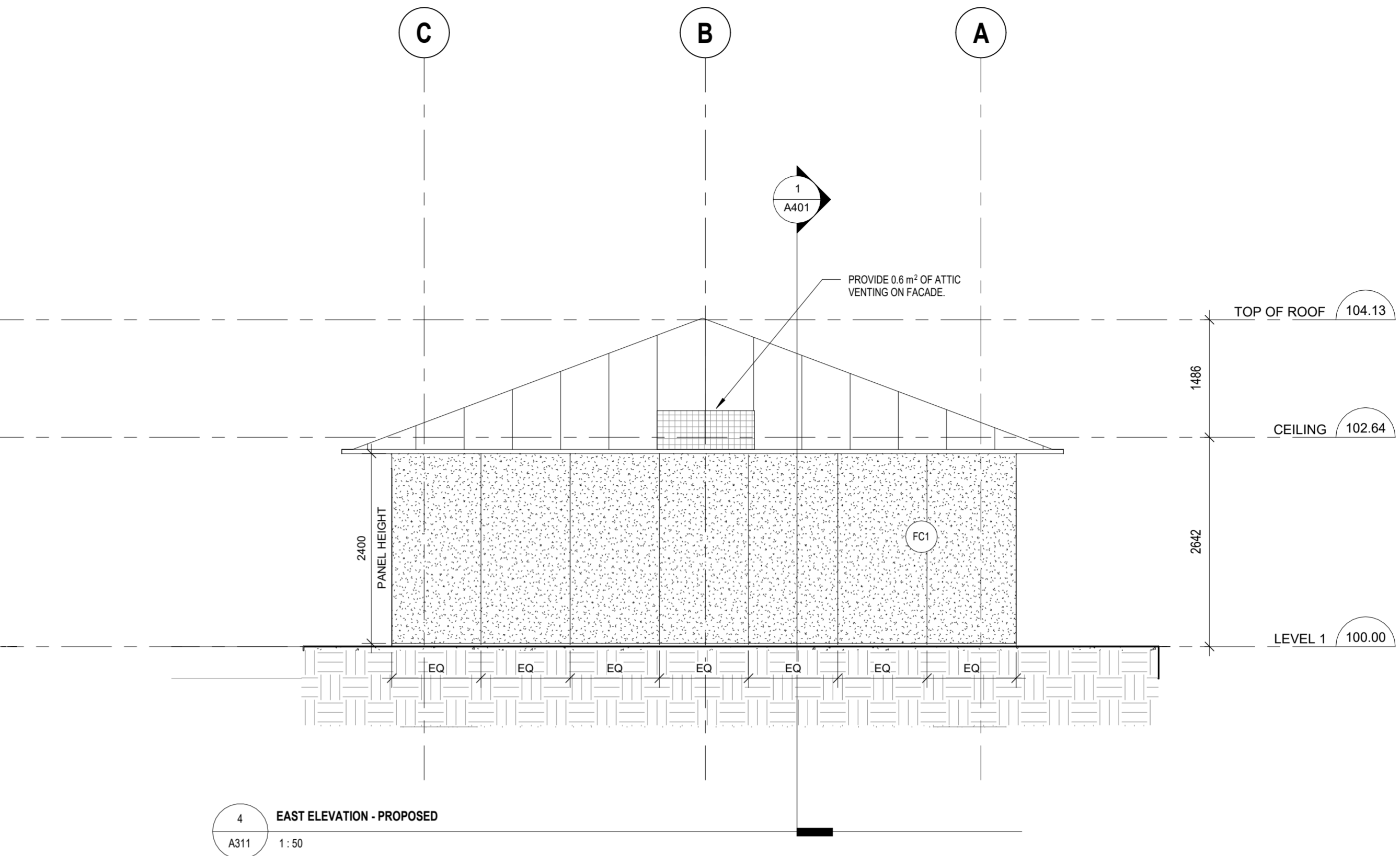


Material Keynote Legend

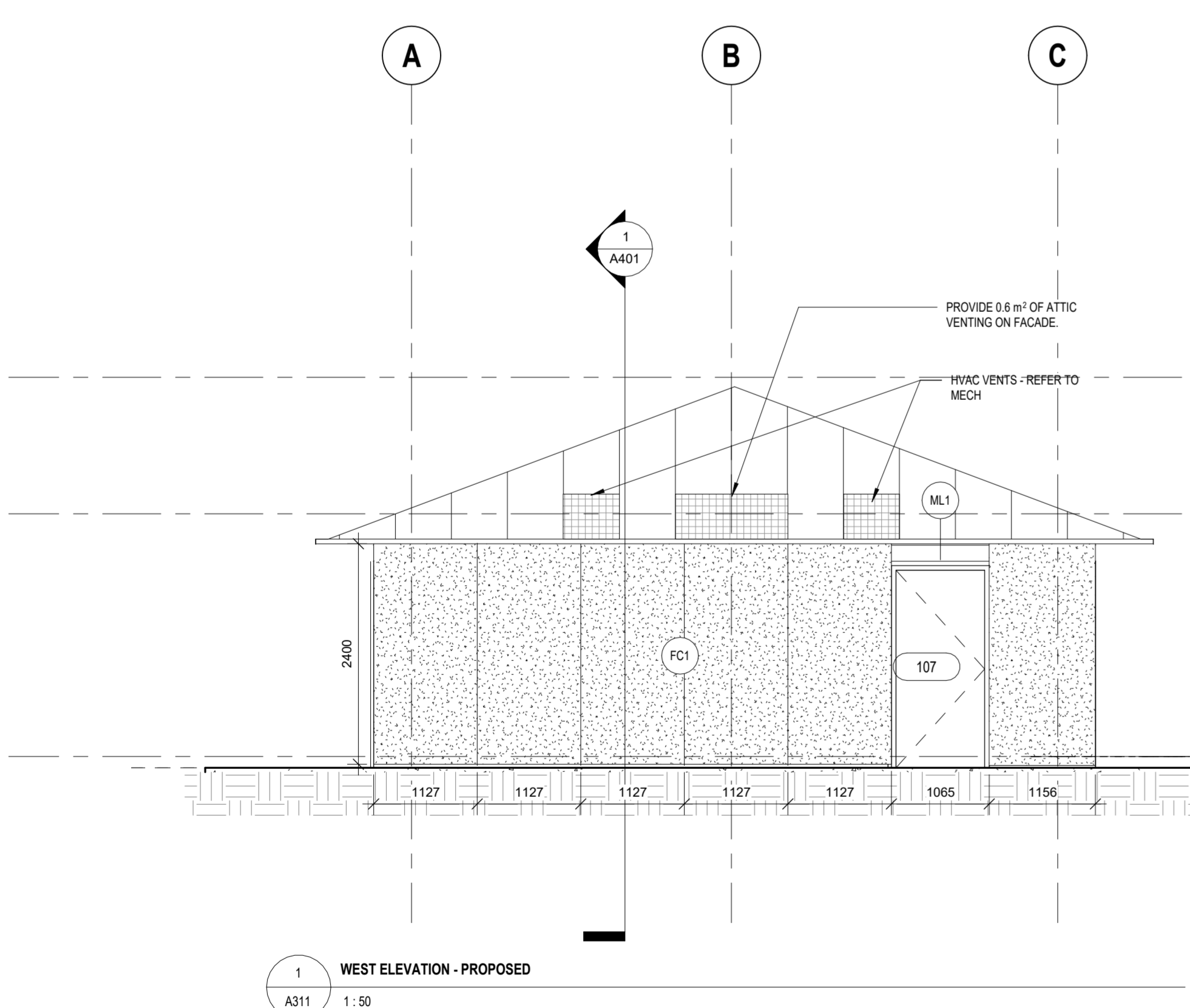
FC1	FIBER CEMENT PATTERN 1, REFER TO SPECIFICATIONS.
ML1	ALUMINUM METAL TRANSOM FINISH, REFER TO SPECIFICATIONS.



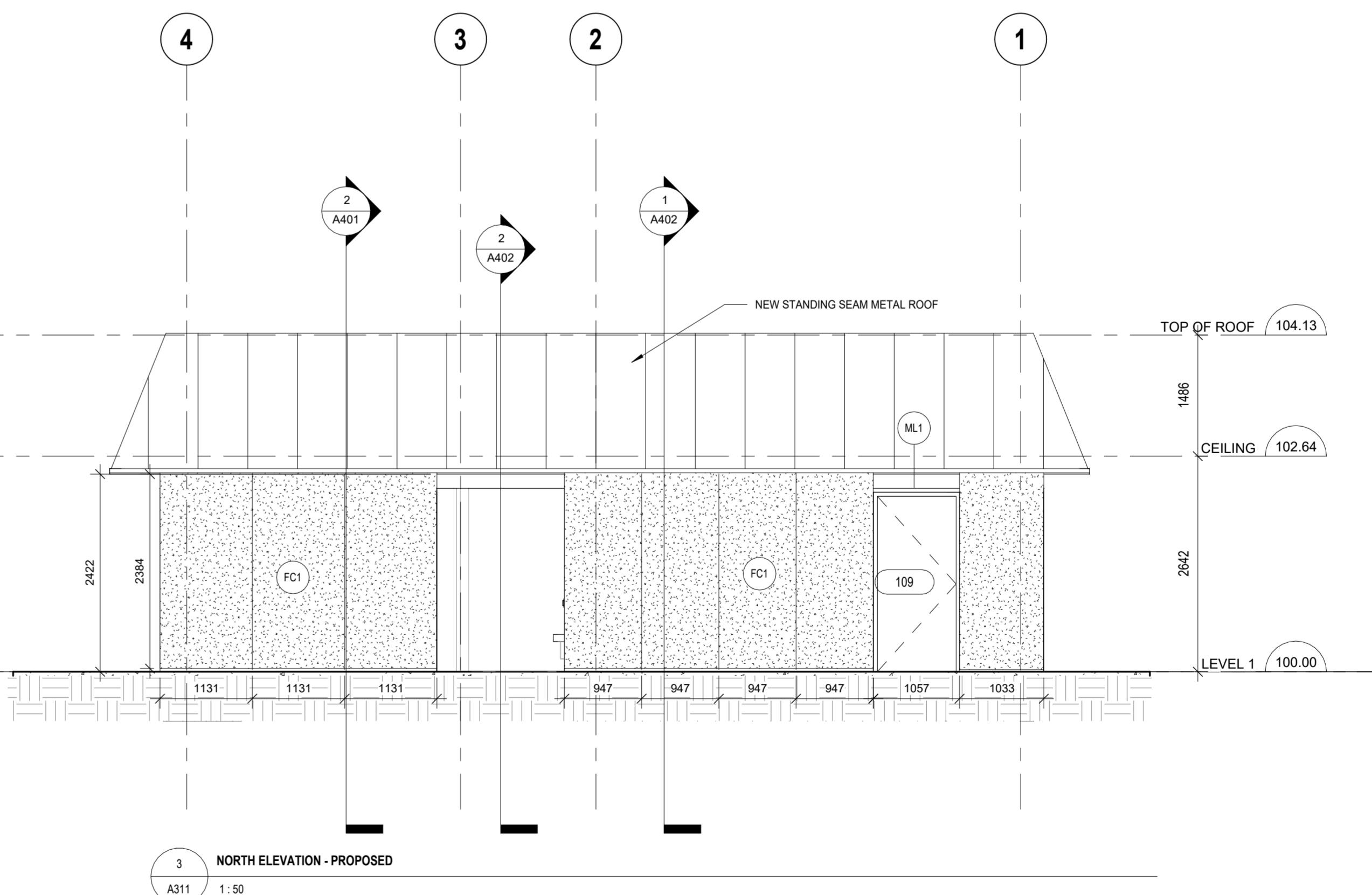
2 SOUTH ELEVATION - PROPOSED  
A311 1:50



4 EAST ELEVATION - PROPOSED  
A311 1:50



1 WEST ELEVATION - PROPOSED  
A311 1:50



3 NORTH ELEVATION - PROPOSED  
A311 1:50

**ELEVATION LEGEND + NOTES**

	1. EXISTING BRICK TO BE DEMOLISHED AND PREPARED FOR RE-USE.
	2. INFILL EXISTING OPENINGS IN BRICK WALL WITH RECLAIMED BRICK. MATCH COURSING, JOINTS AND MORTAR TO ADJACENT BRICK. ENSURE CONTINUOUS WATERPROOFING BETWEEN OLD AND NEW WALL. INFILL EXISTING WINDOW WELLS WITH GRAVEL.

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

2222

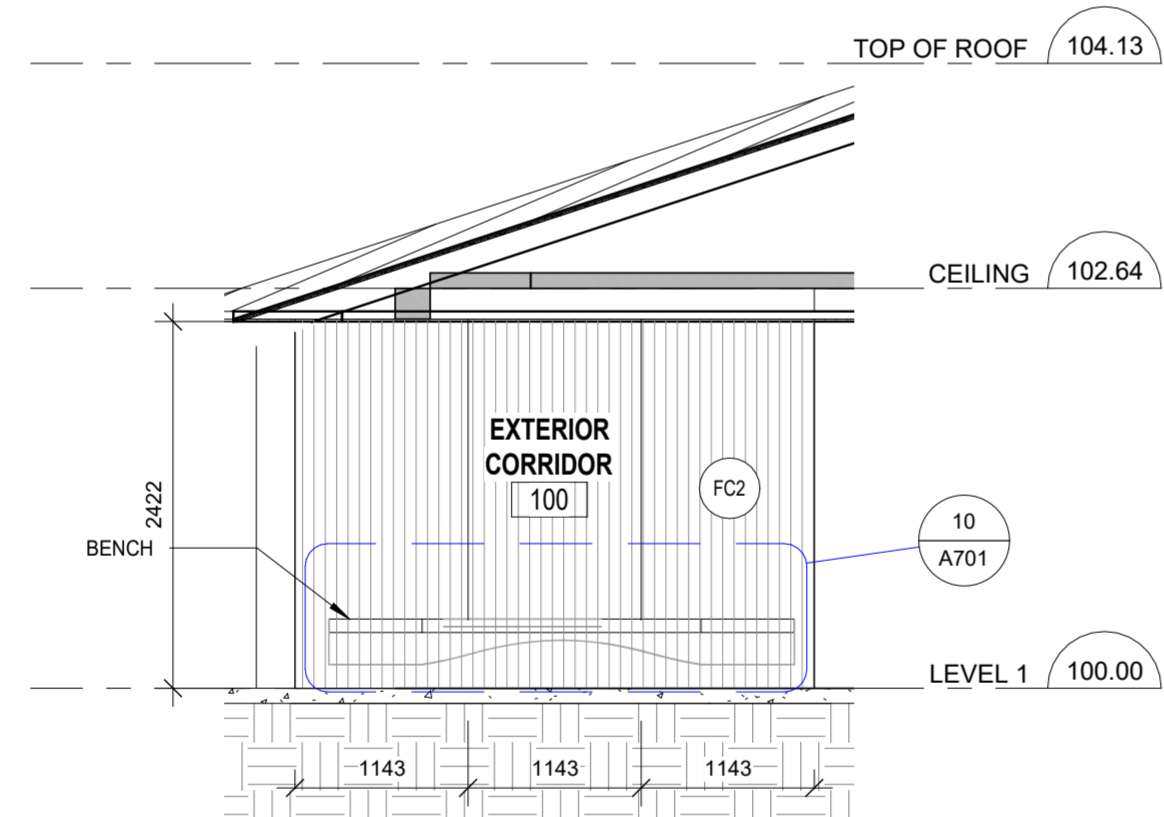
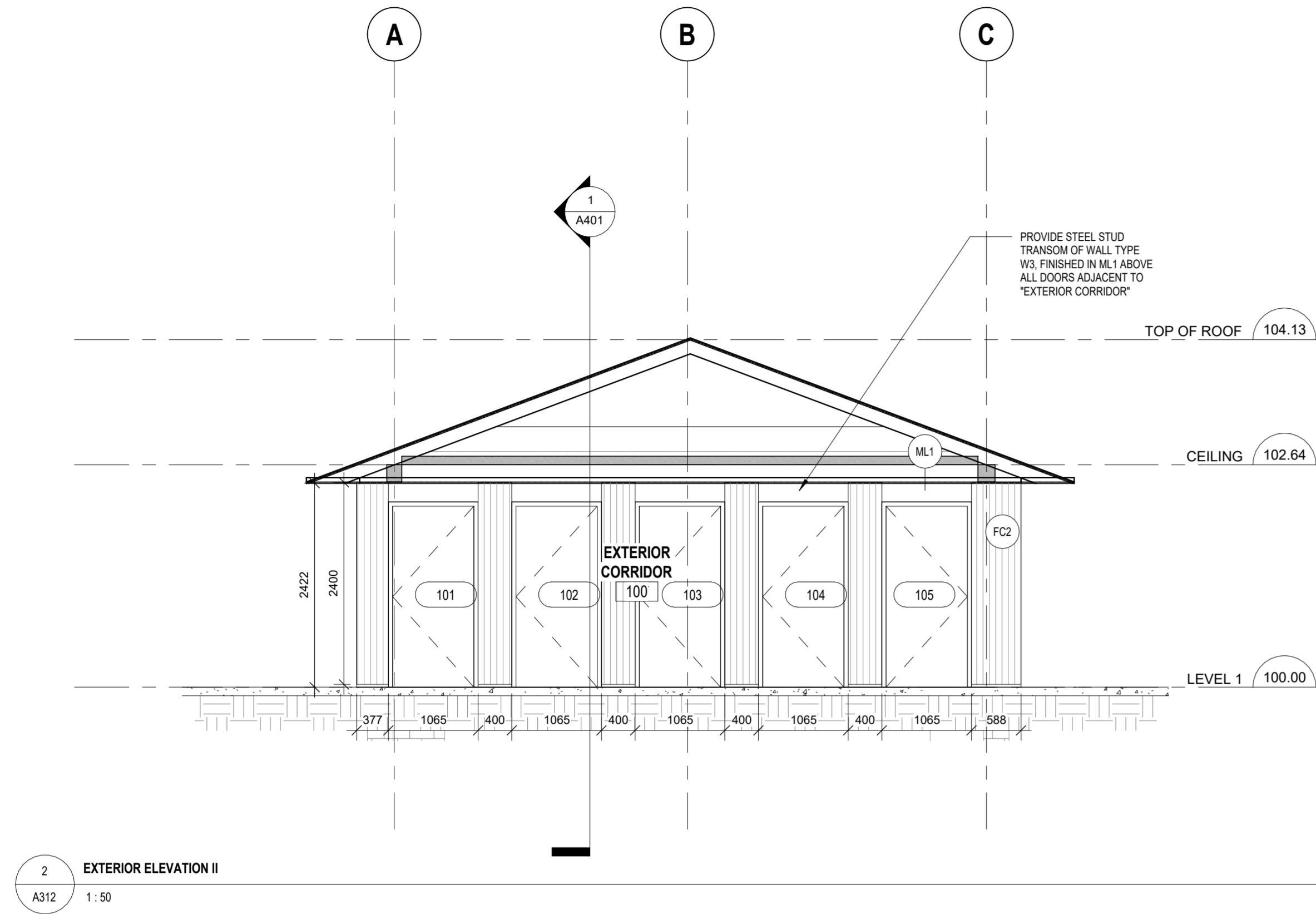
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EXTERIOR ELEVATIONS - PROPOSED

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



Lower Hillside Washroom Building Improvements

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EXTERIOR ELEVATIONS - PROPOSED

Lower Hillside Washroom Building  
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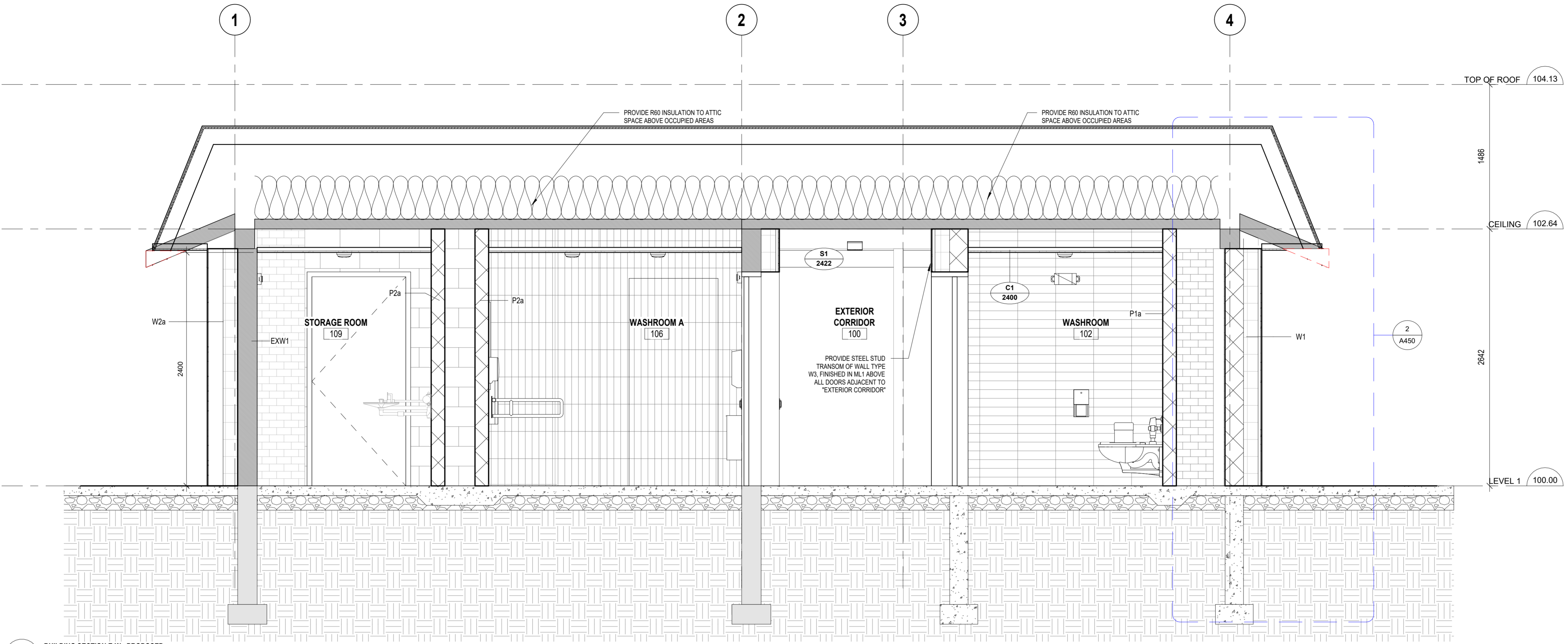
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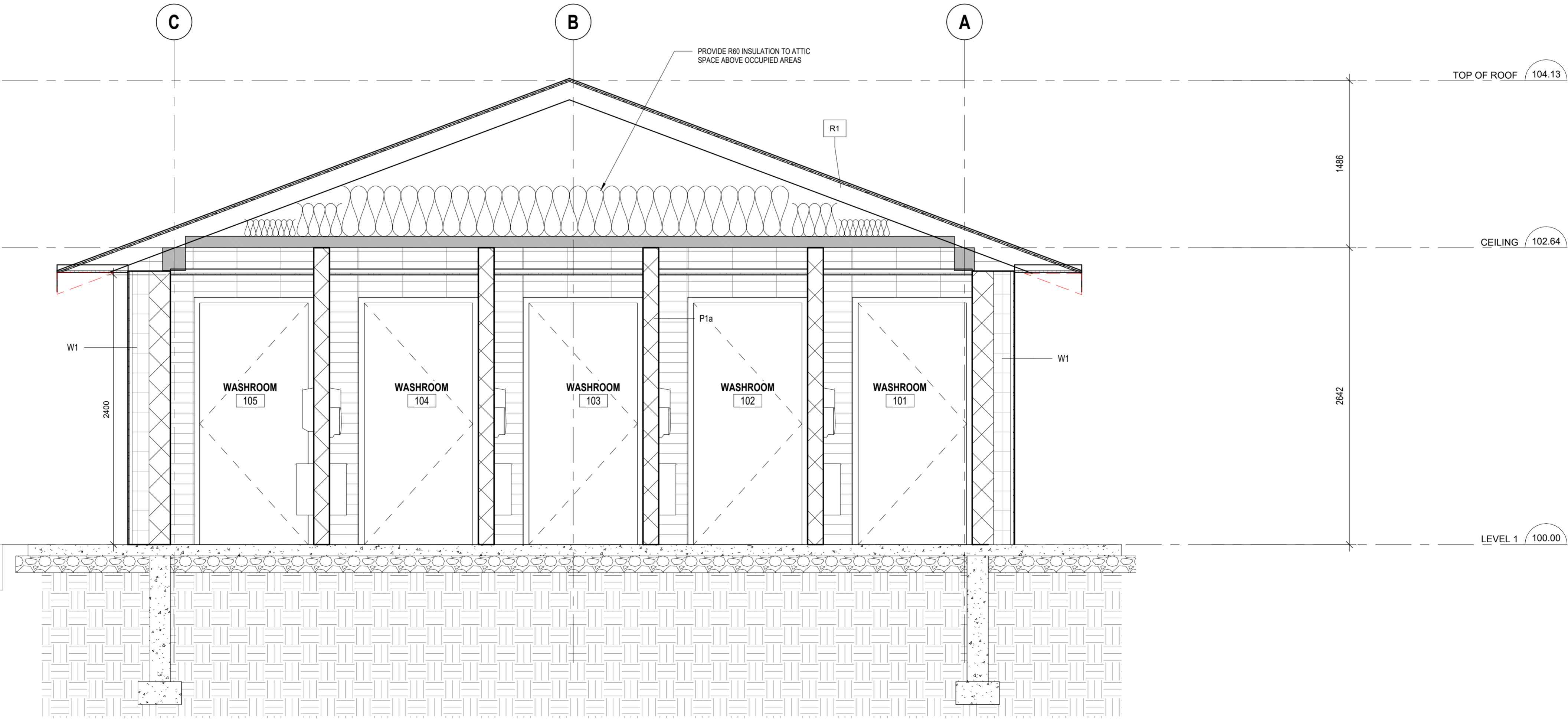
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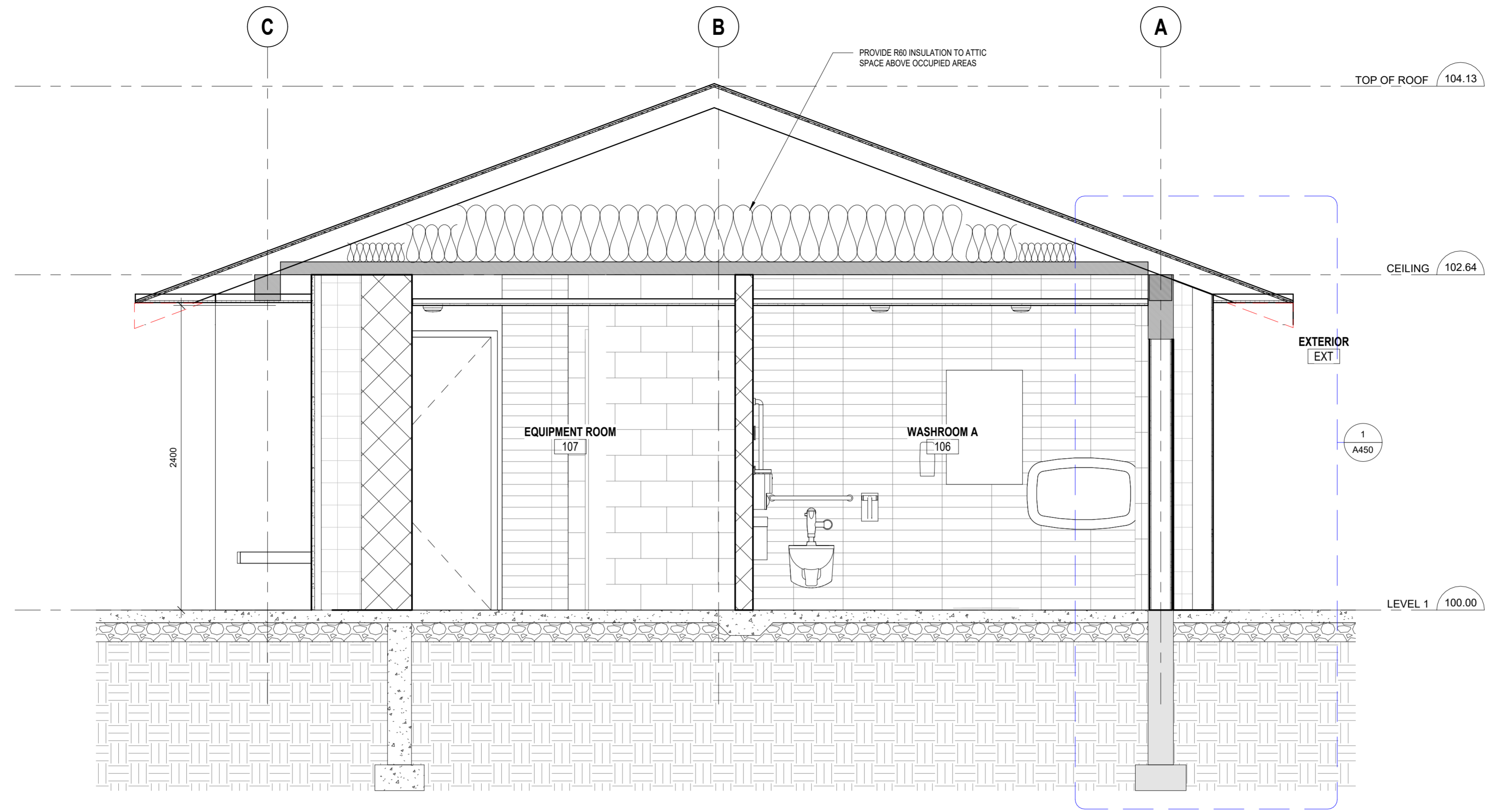
BUILDING SECTIONS



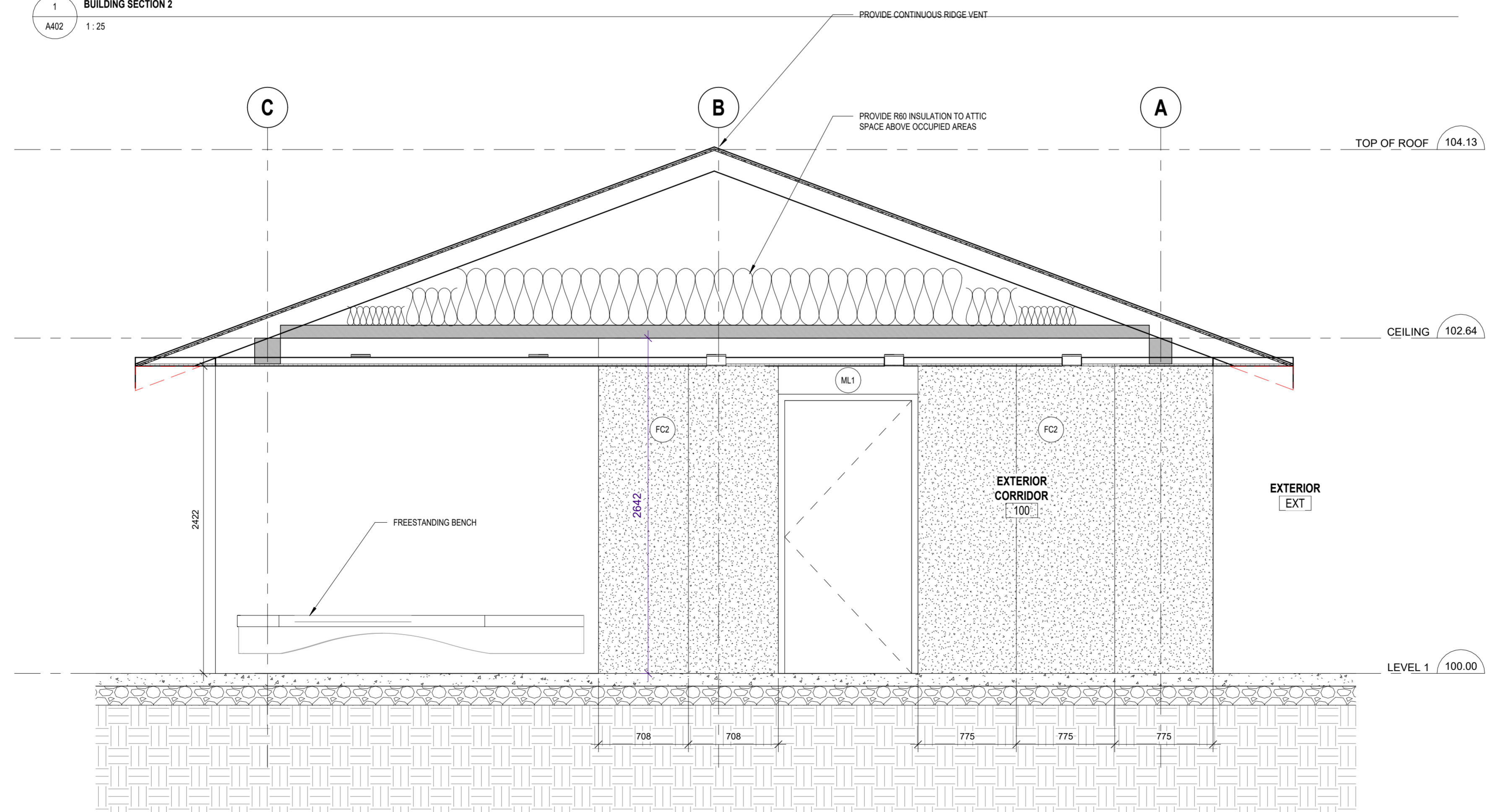
1 BUILDING SECTION E-W - PROPOSED  
A401 1:25



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

Lower Hillside Washroom Building Improvements

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

No.	Date	Description
1	February 9 2024	Issued for Permit/Tender

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BUILDING SECTIONS

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TORONTO, ON M6R 2Z3

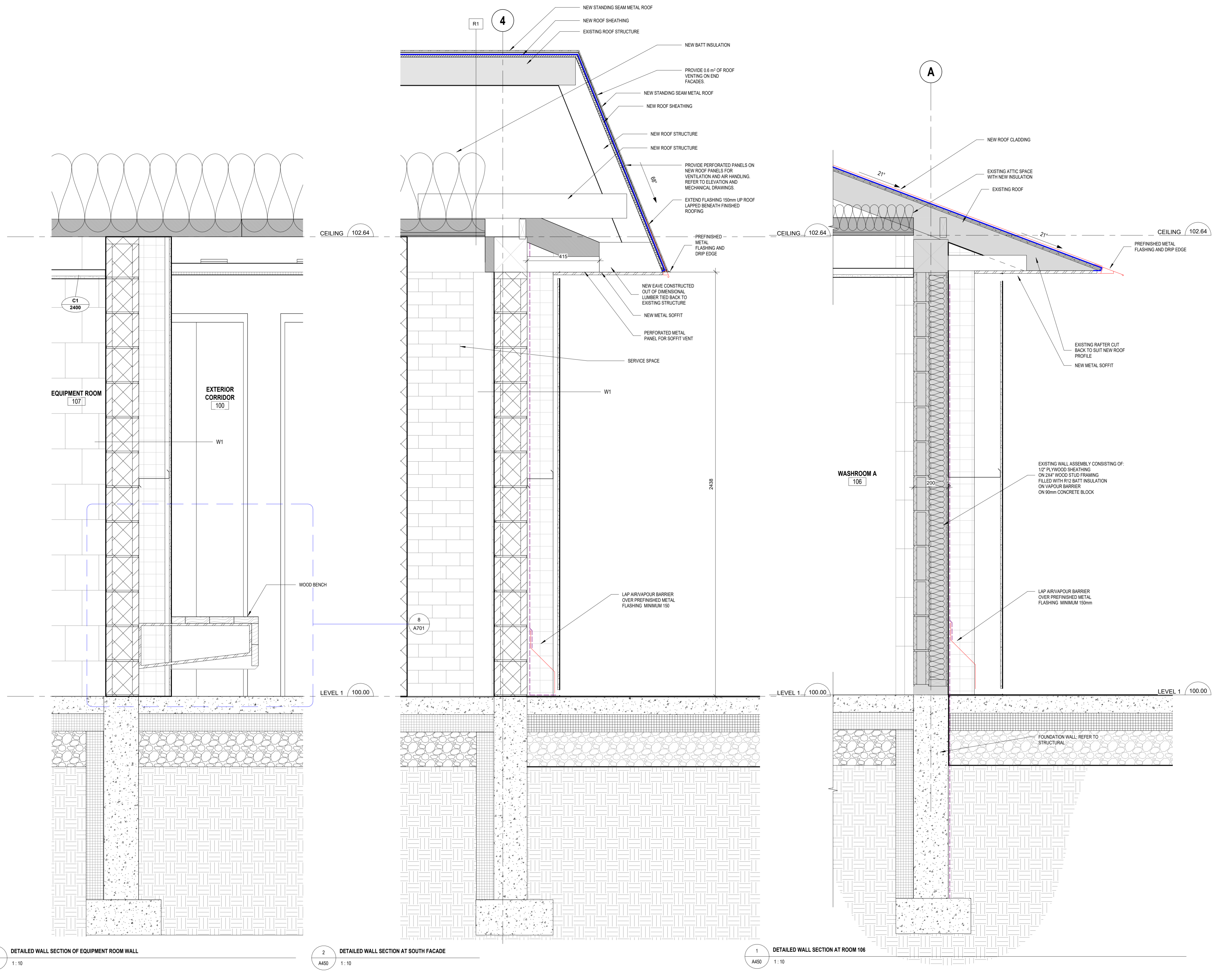
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WALL SECTIONS

A450



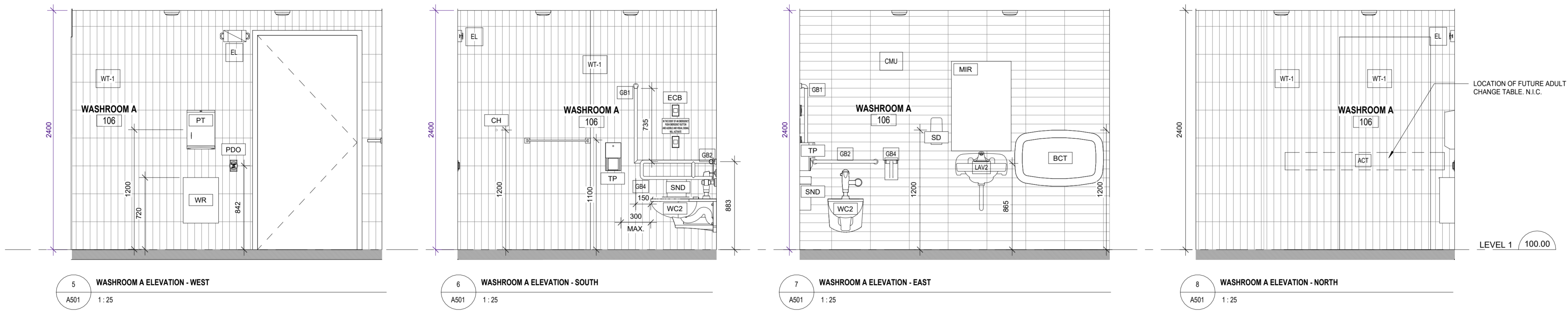
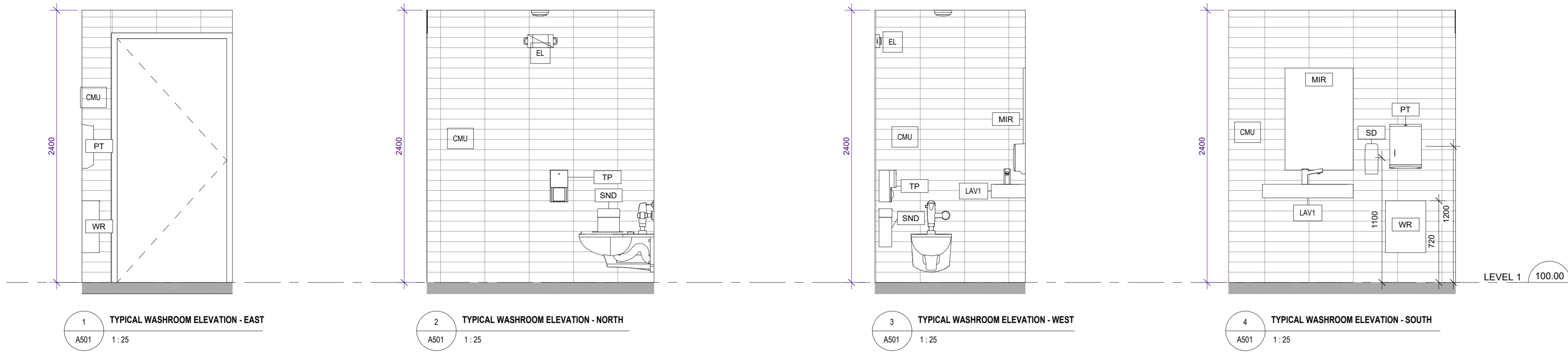
3 DETAILED WALL SECTION OF EQUIPMENT ROOM WALL  
A450 1:10

2 DETAILED WALL SECTION AT SOUTH FACADE  
A450 1:10

1 DETAILED WALL SECTION AT ROOM 106  
A450 1:10

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

8/2/2024 12:20:59 PM



ACCESSORY LEGEND	
BC	BABY CHANGE TABLE
EL	EMERGENCY LIGHT
GB1	90 DEG BARRIER FREE GRAB BAR
GB2	HORIZONTAL GRAB BAR
GB3	URNAL 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

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1873 BLOOR ST W  
TORONTO, ON M6R 2Z3

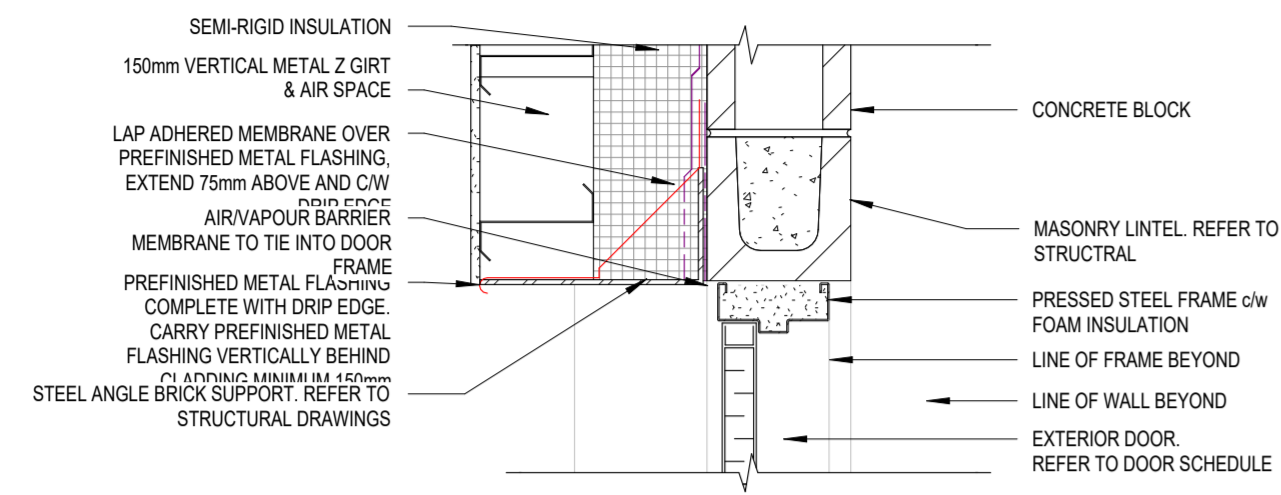
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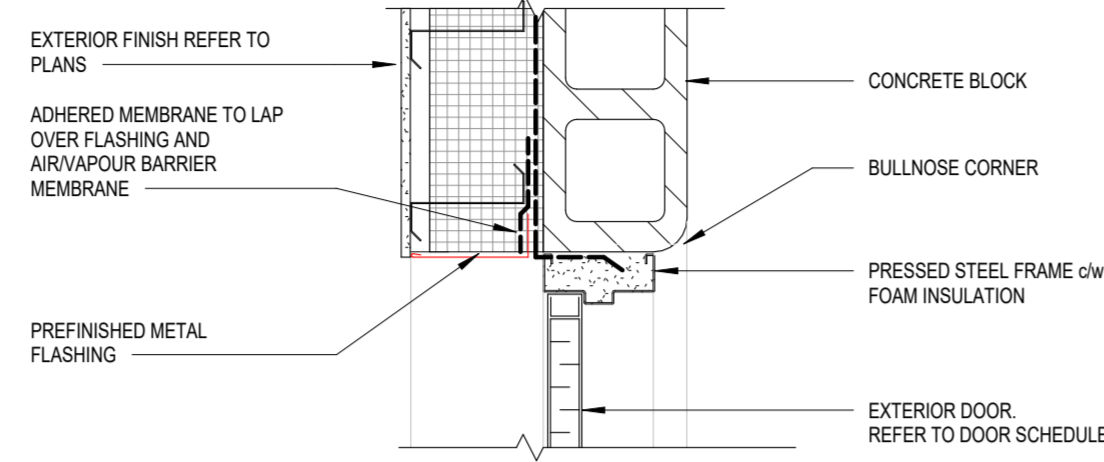
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Drawn: DW  
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Issued For: TENDER  
Date: AUGUST 7, 2024

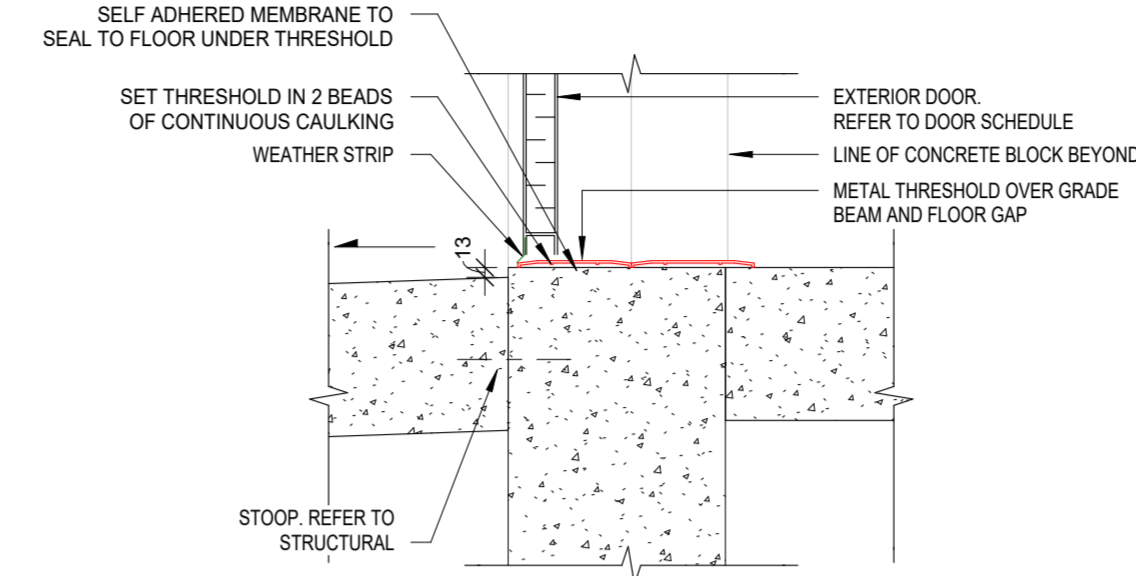
INTERIOR ELEVATIONS



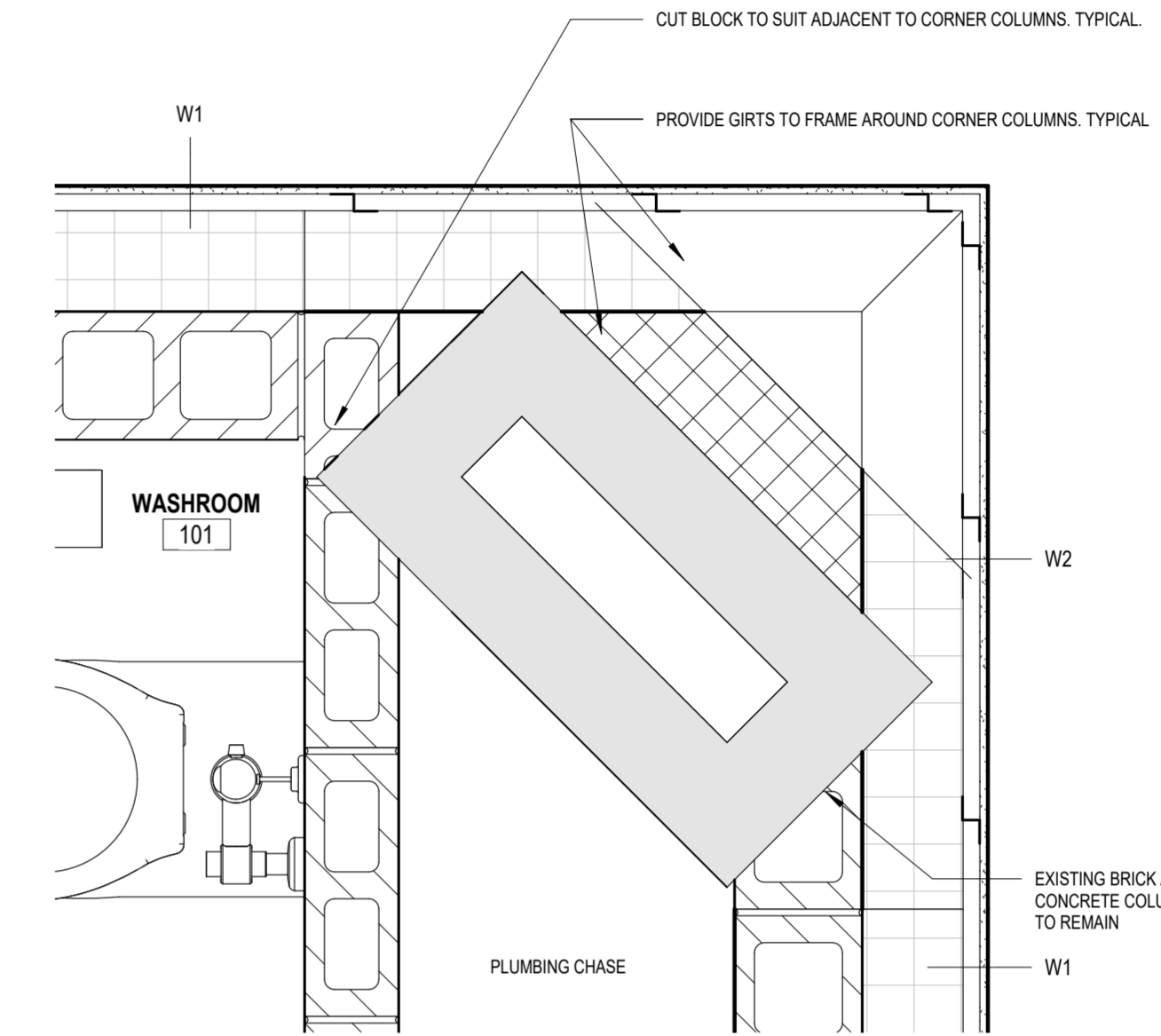
3 DOOR HEAD DETAIL  
A701 1:10



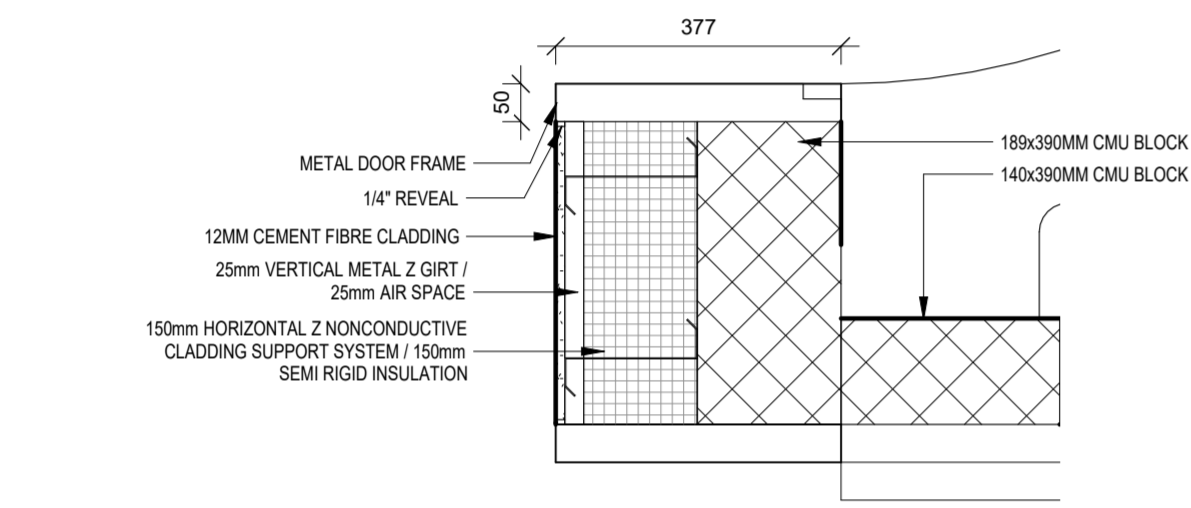
4 DOOR JAMB DETAIL  
A701 1:10



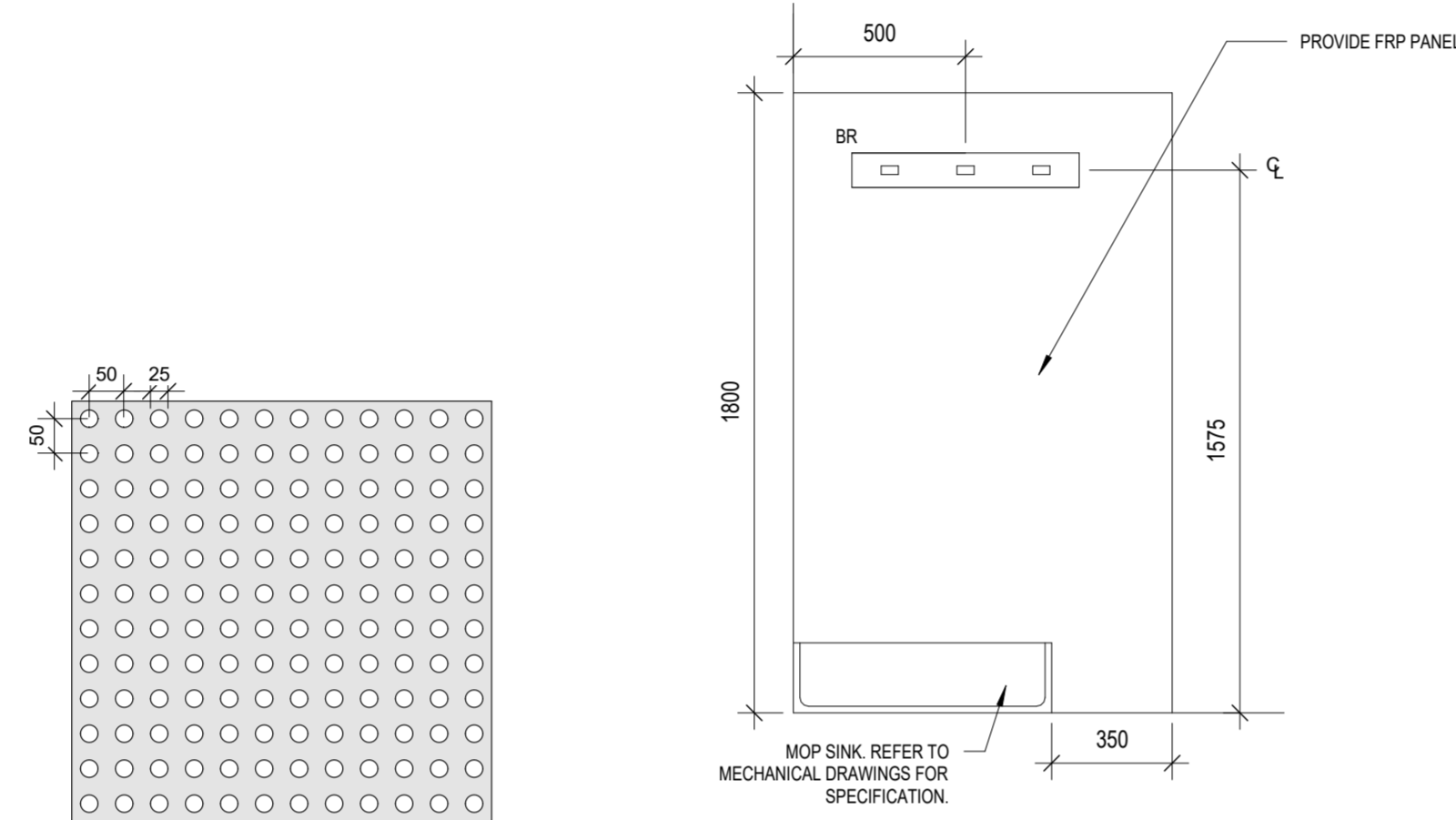
2 DOOR THRESHOLD  
A701 1:10



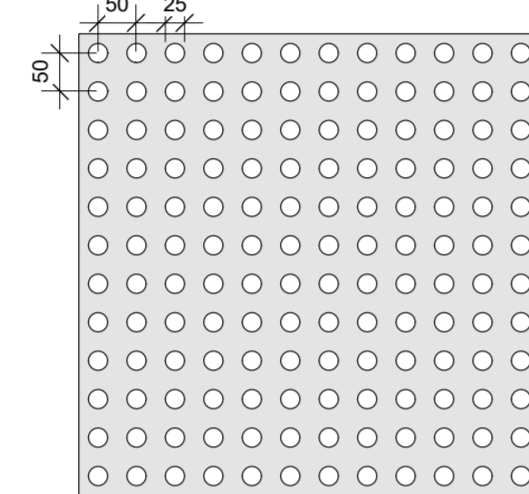
6 CORNER COLUMN DETAIL  
A701 1:10



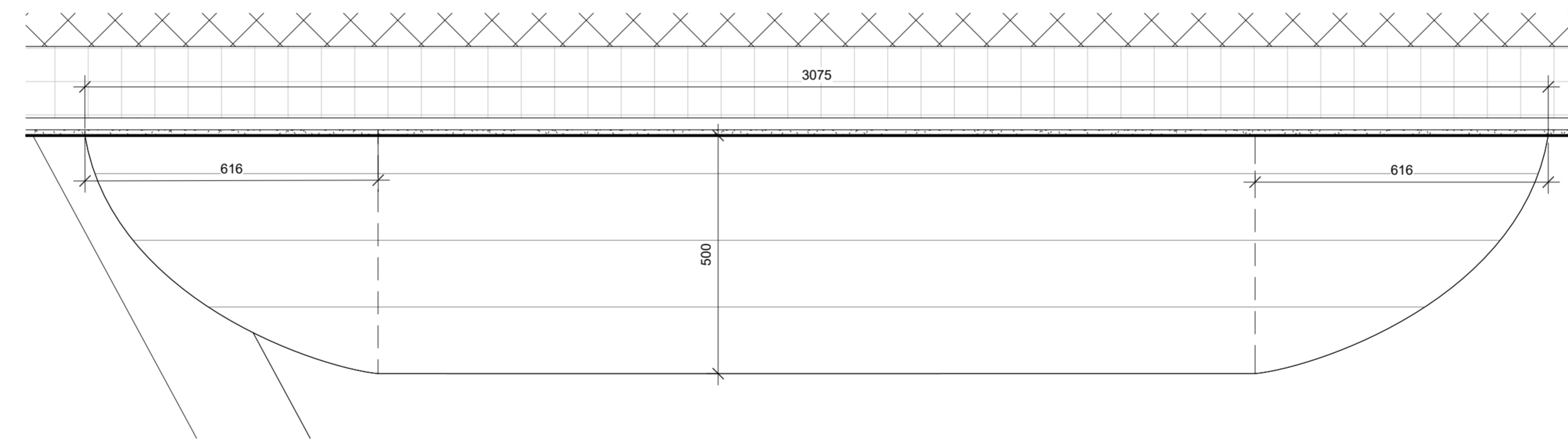
5 DOOR JAMB DETAIL  
A701 1:10



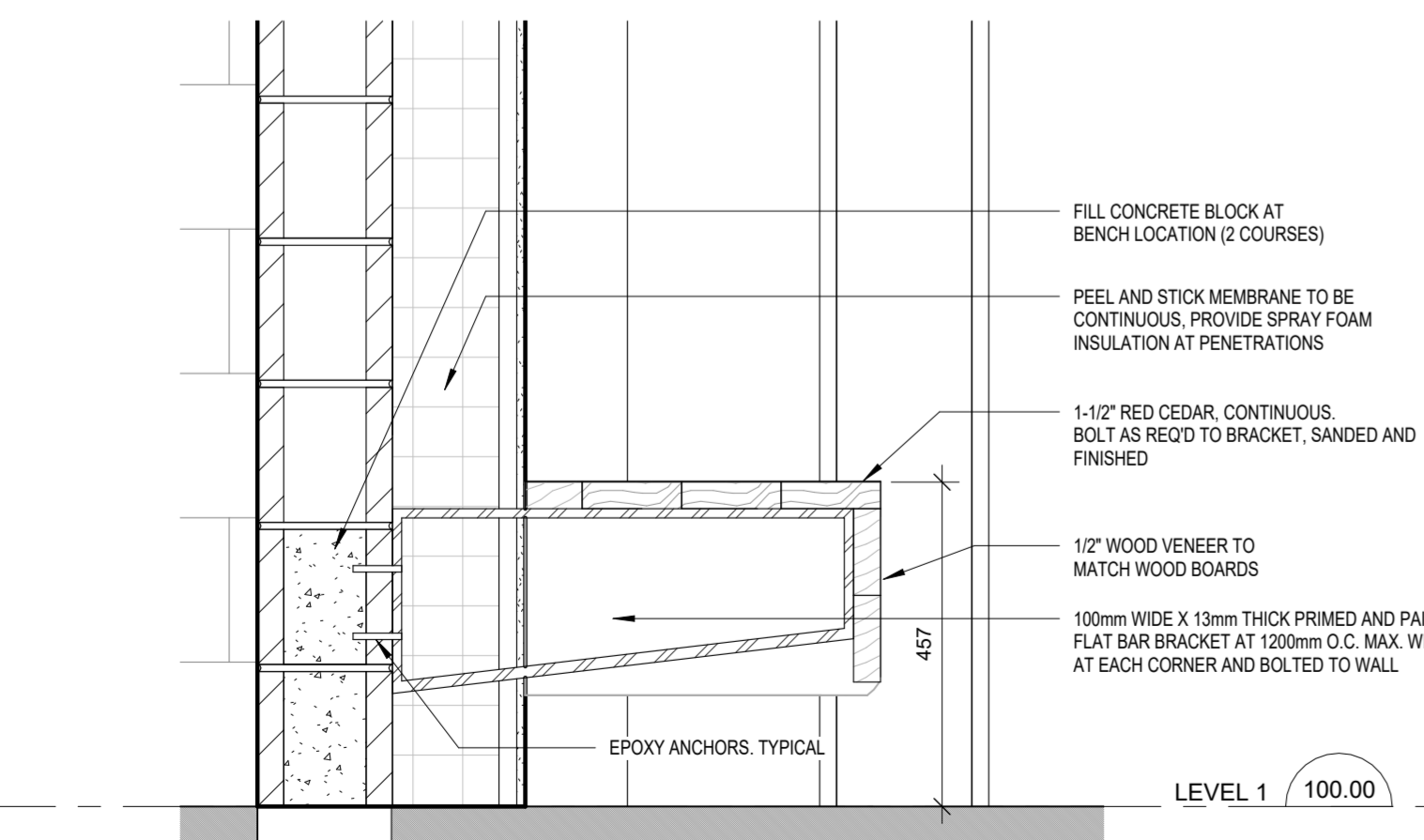
1 CUSTODIAL SINK  
A701 1:20



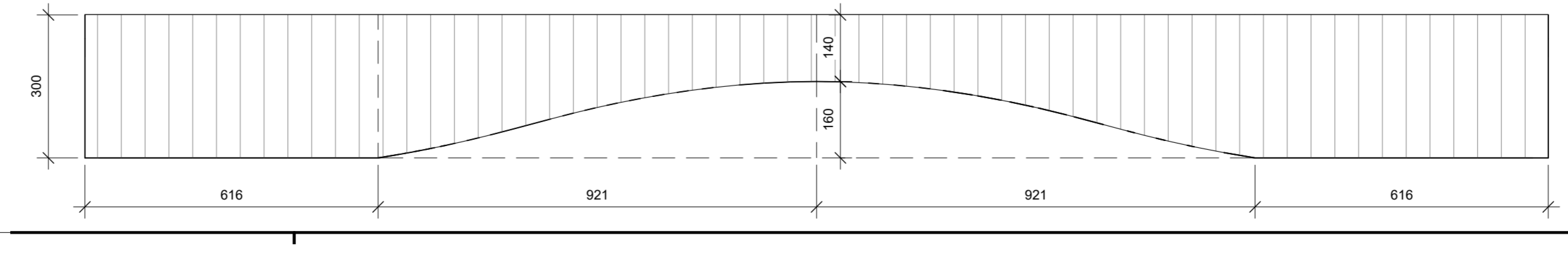
7 PERFORATION PATTERN  
A701 1:10



9 BENCH - ENLARGED PLAN  
A701 1:10



8 BENCH - SECTION DETAIL  
A701 1:10



10 BENCH - ENLARGED ELEVATION  
A701 1:10

Lower Hillside Washroom Building Improvements

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

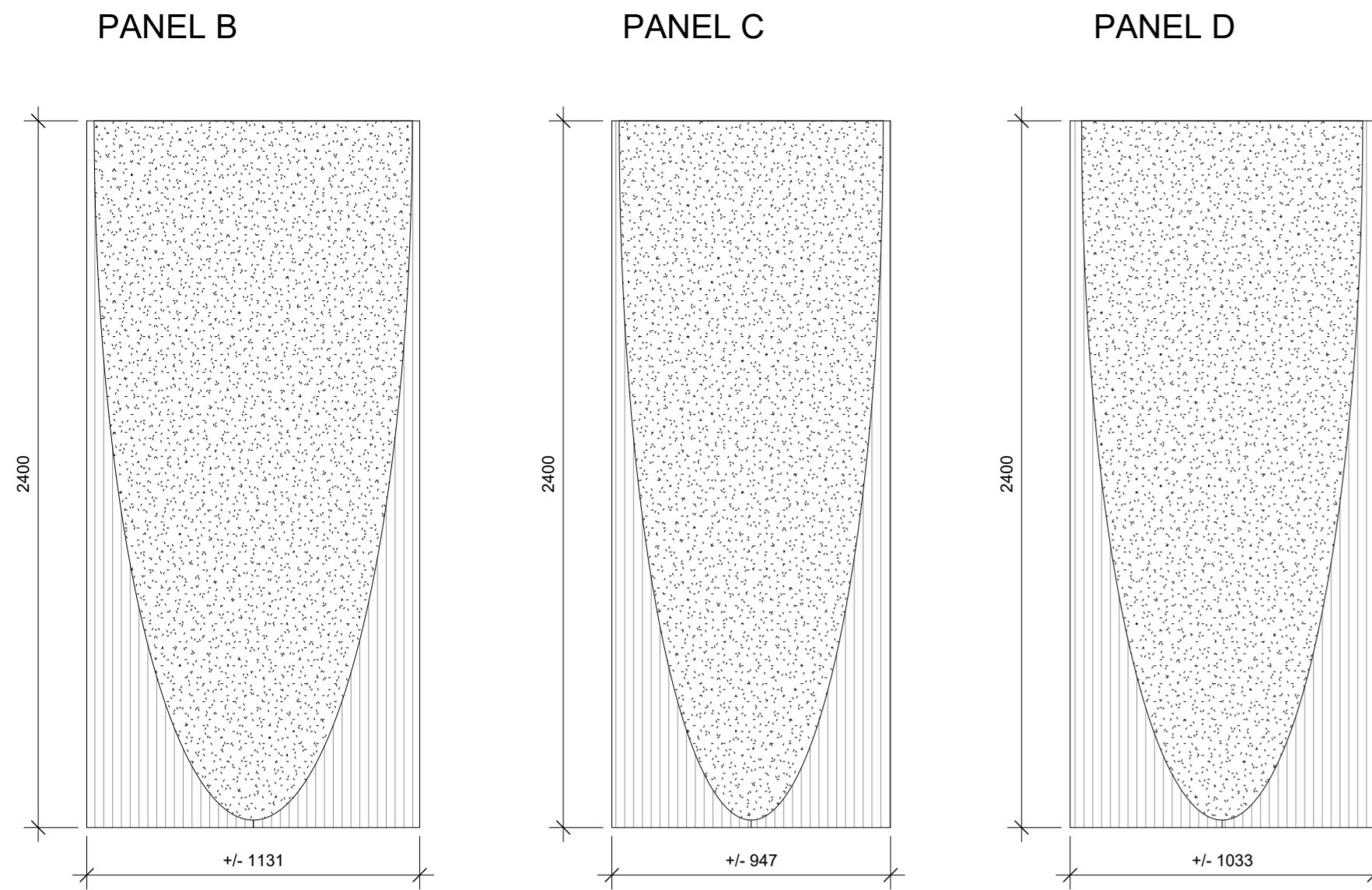
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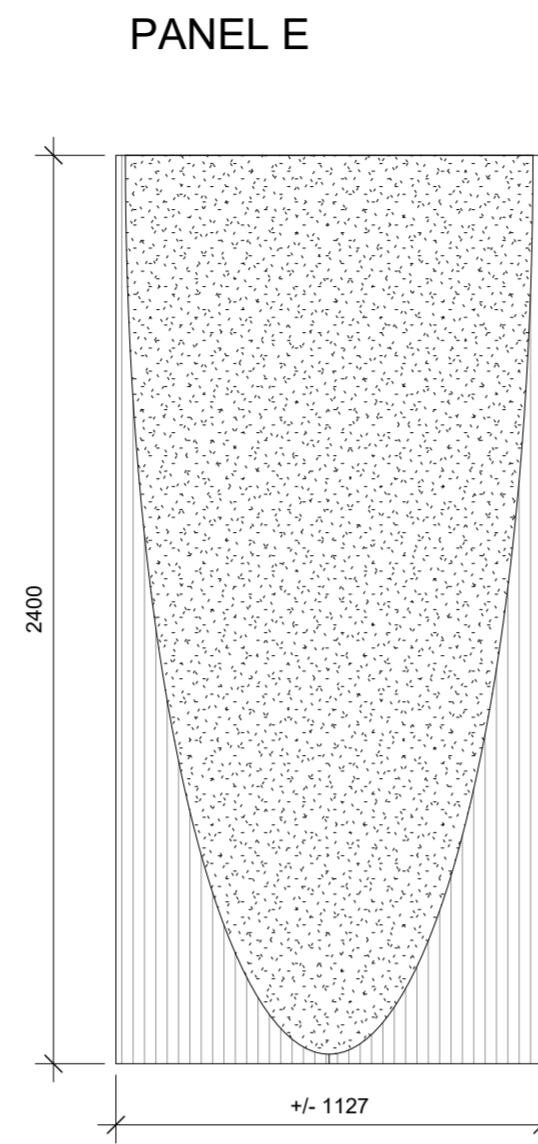
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Date: AUGUST 7, 2024

DETAILS

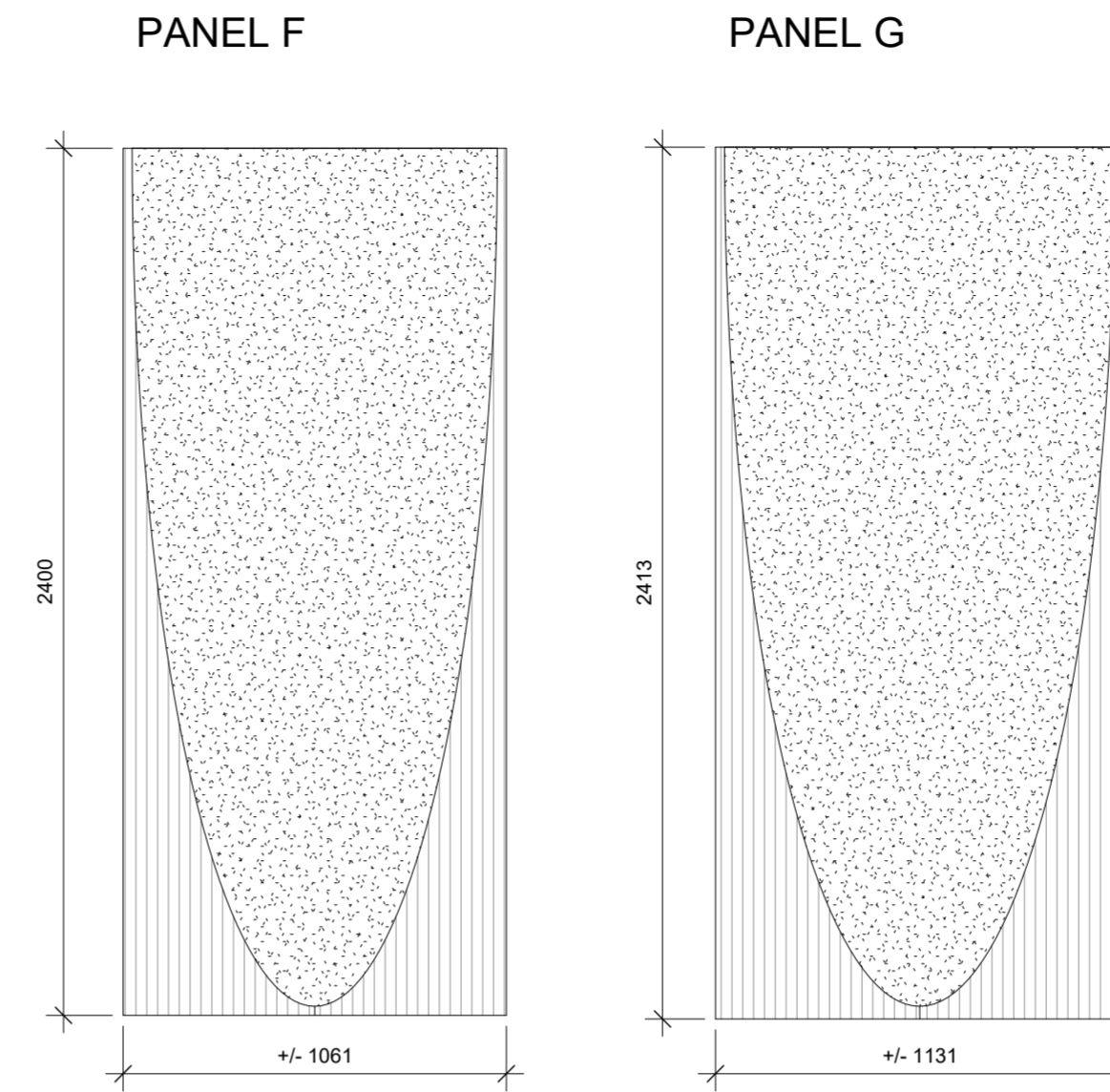
NORTH SIDE PANEL TYPES



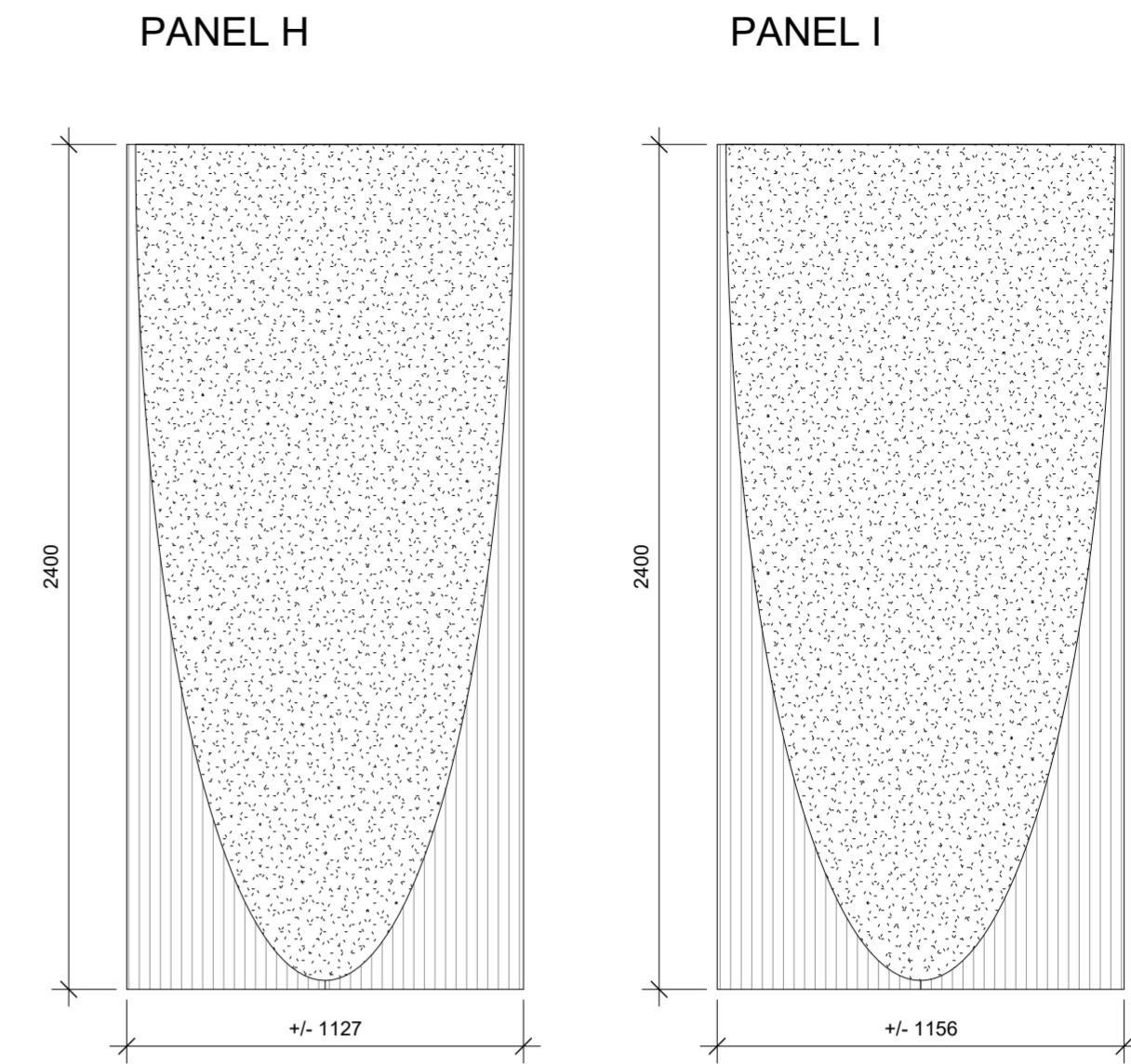
EAST SIDE PANEL TYPES



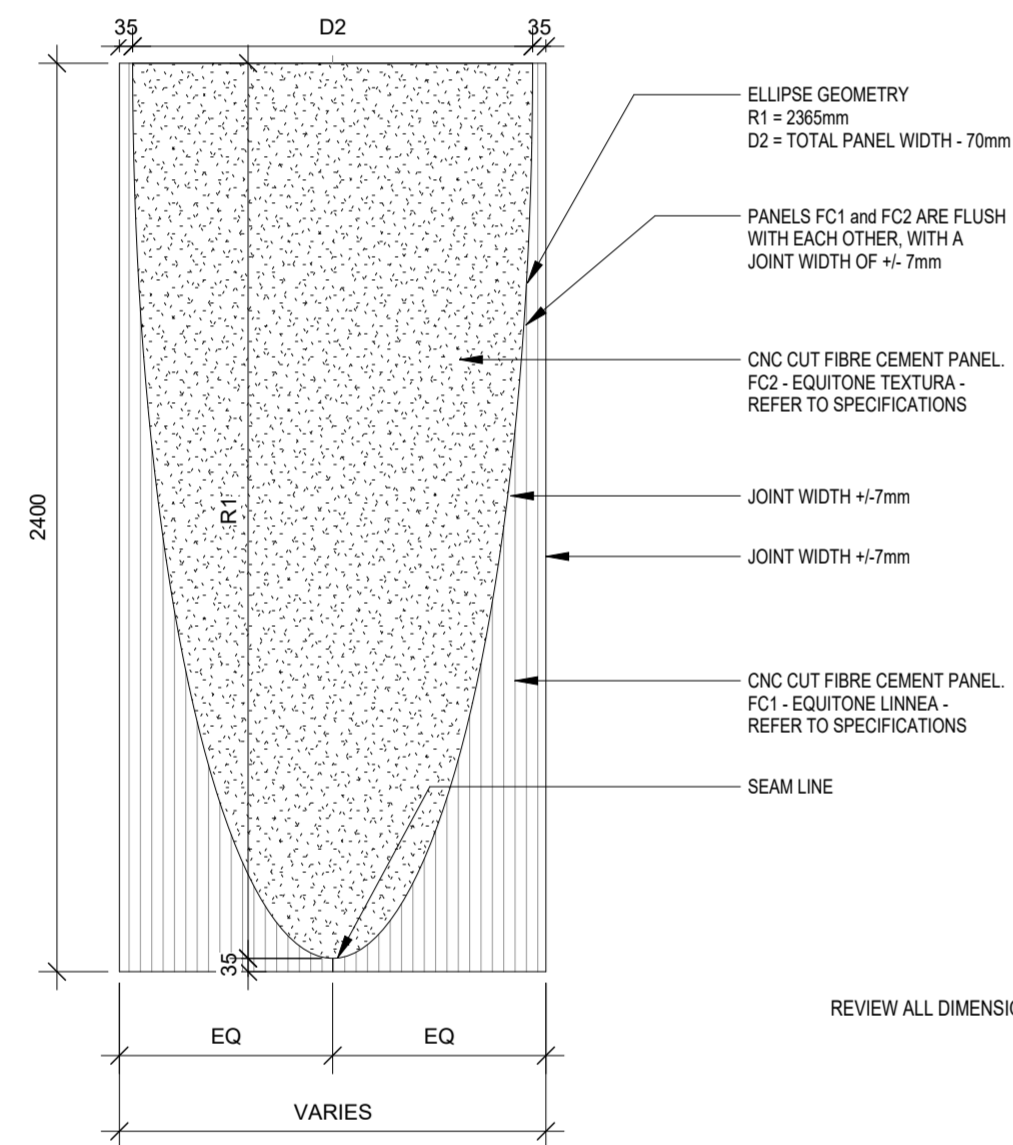
SOUTH SIDE PANEL TYPES



WEST SIDE PANELS

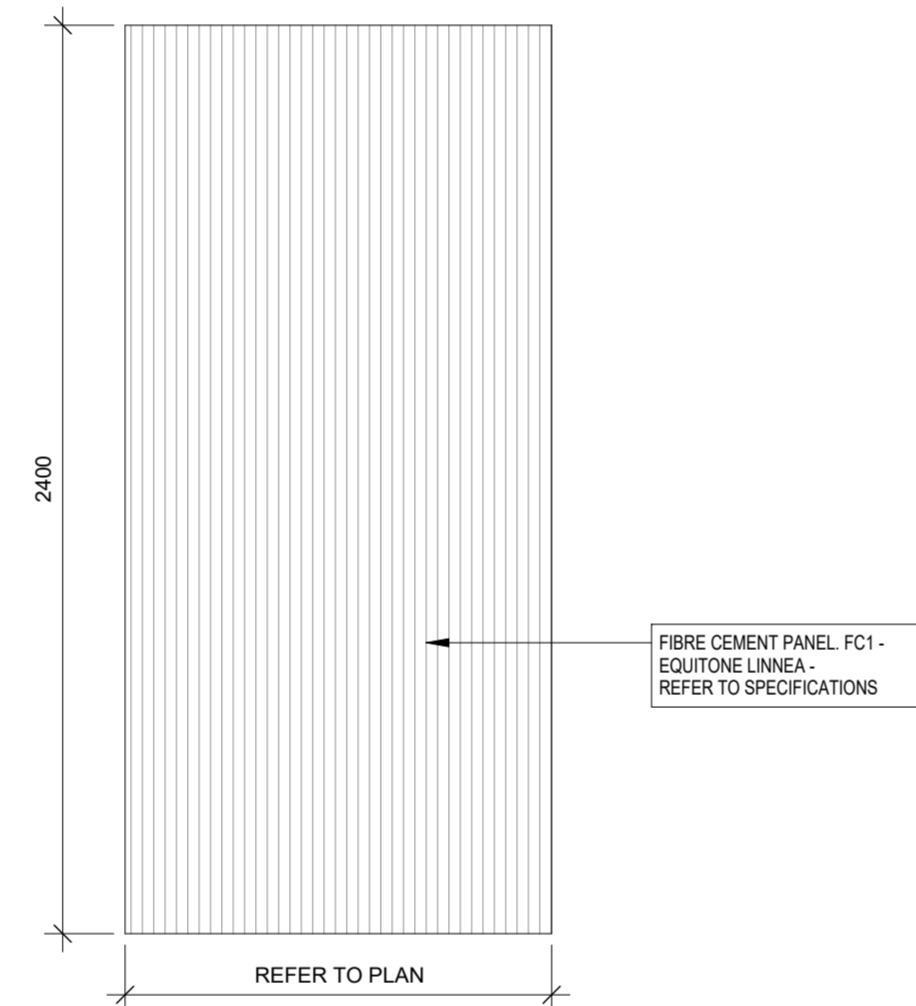


TYPICAL PANEL PATTERN AND TOLERANCE

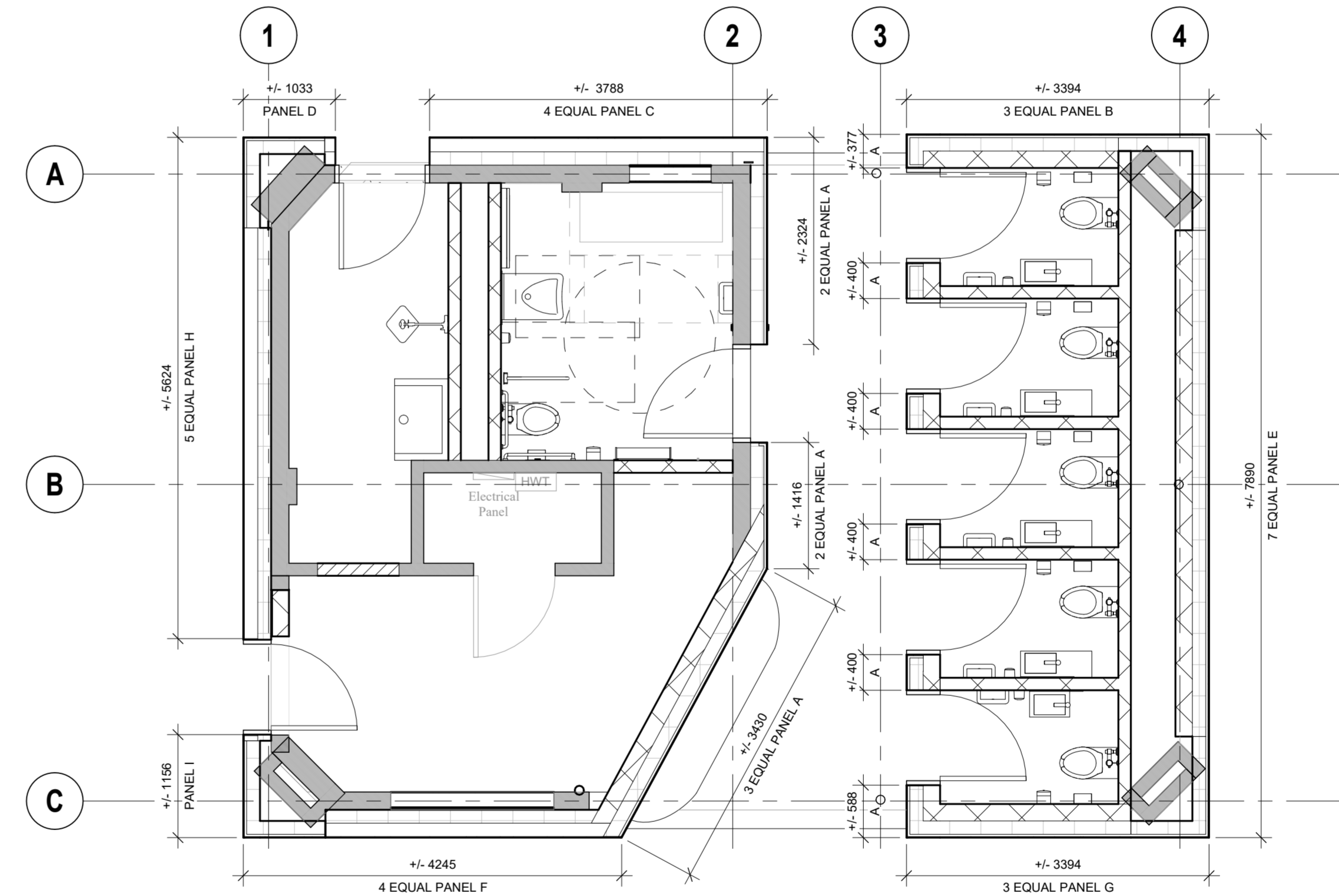
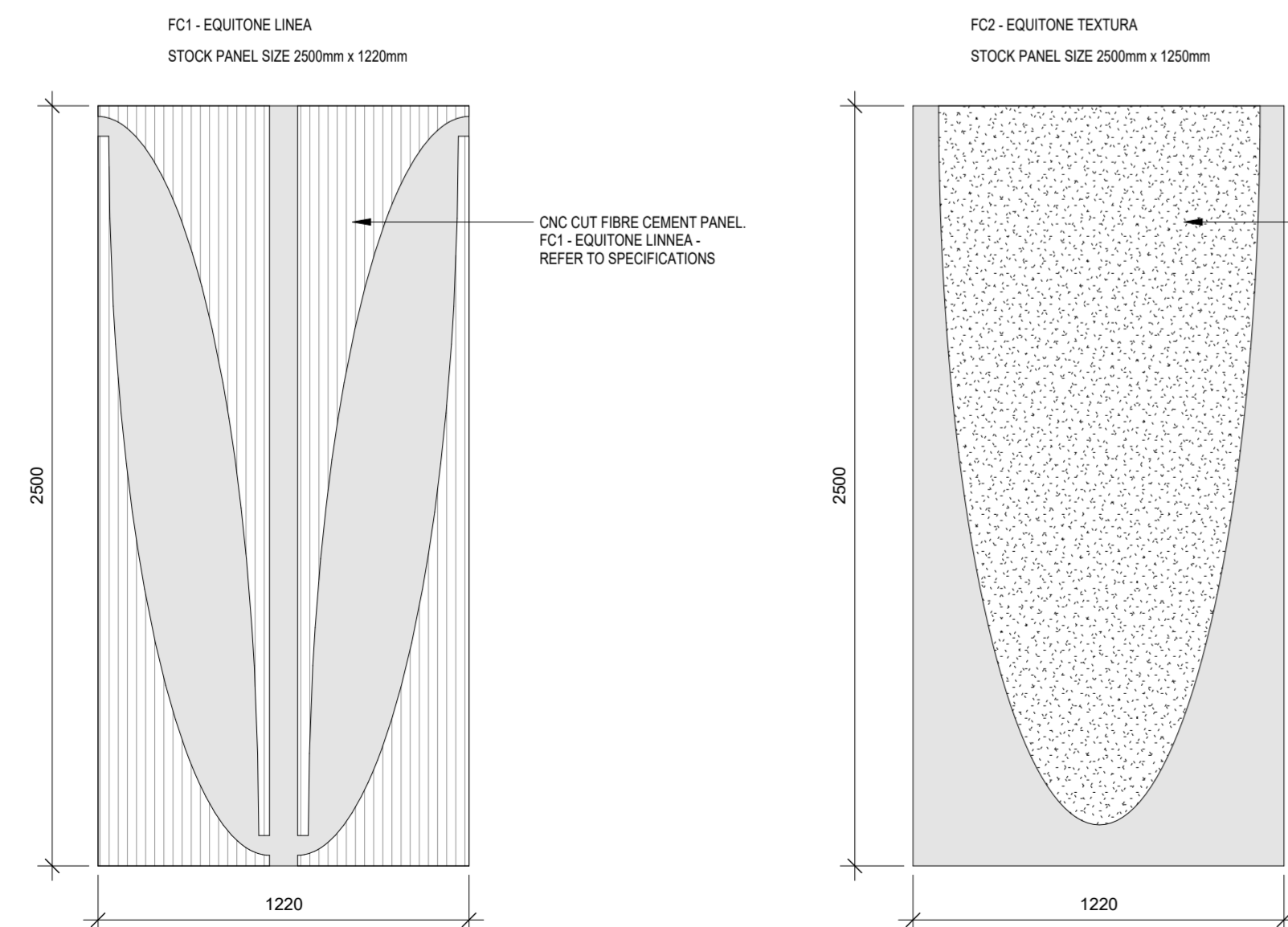


REVIEW ALL DIMENSIONS ON SITE BEFORE PRODUCING PANELS.

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:

REF	CODE	TITLE
a)	CAN/CSA A23.1	CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION
b)	CAN/CSA A23.2	METHODS OF TEST FOR CONCRETE
c)	CAN/CSA A23.3	DESIGN OF CONCRETE STRUCTURES
d)	CAN/CSA-S16	LIMIT STATES DESIGN OF STEEL STRUCTURES
e)	CAN/CSA G40.20/G40.21	STRUCTURAL QUALITY STEEL
f)	RSIC	REINFORCING STEEL INSTITUTE OF CANADA (RSIC), MANUAL OF STANDARD PRACTICE
g)	O86	ENGINEERING DESIGN IN WOOD (LIMIT STATES DESIGN)
h)	CAN/CSA-A370	CONNECTORS FOR MASONRY
i)	CSA-A371	MASONRY CONSTRUCTION FOR BUILDINGS
j)	S304.1	DESIGN OF MASONRY STRUCTURES
k)	CSA G30.18	CARBON STEEL BARS FOR CONCRETE REINFORCING

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:

ITEM	SUBMISSION REQUIRED	SUBMISSION TO BE SEALED BY PROFESSIONAL ENGINEER	COMMENTS
CONCRETE MIX DESIGNS	YES	NO	INCLUDE A BRIEF DESCRIPTION OF WHERE EACH MIX WILL BE USED

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:

NOT REVIEWED SHOWS WORK WHICH IS NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES.

REVIEWED NO DEVIATIONS FROM THE CONTRACT DOCUMENTS NOTED.

NOTED WE HAVE MADE COMMENTS, TO BE REVIEWED/INCORPORATED. SUBMIT RECORD PRINT.

RESUBMIT 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:

STRUCTURAL ELEMENT AND EXPOSURE	EXPOSURE CLASS PER CSA A23.1	CONCRETE STRENGTH $f_c$ (MPa)	SLUMP (mm)	MAX W/C RATIO	AIR CONTENT
FOOTING AND CAPS		25	80		
SLABS-ON-GRADE EXPOSED TO CHLORIDES AND FREEZING	C-2	32	60*	0.45	5% - 8%

TOLERANCE FOR SLUMP SHALL BE  $\pm 20$  mm FOR SPECIFIED SLUMP LESS THAN 80 mm, AND  $\pm 30$  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  $\pm 125$  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:

ITEM	REQUIRED	COMMENTS
SOIL BEARING CAPACITY	YES	BY GEOTECHNICAL CONSULTANT

#### 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.



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

## PARK WASHROOM RENOVATION

### LIST OF STRUCTURAL DRAWINGS

SHEET No.	SHEET TITLE
S1.1	GENERAL NOTES
S1.2	TYPICAL DETAILS
S1.3	TYPICAL DETAILS
S1.4	TYPICAL DETAILS
S2.1	FOUNDATION PLAN
S2.2	ROOF FRAMING PLAN
S4.1	SECTIONS AND DETAILS

Designed by: STB Scale: N/A

Drawn by: AQV Date: MAY 29, 2024

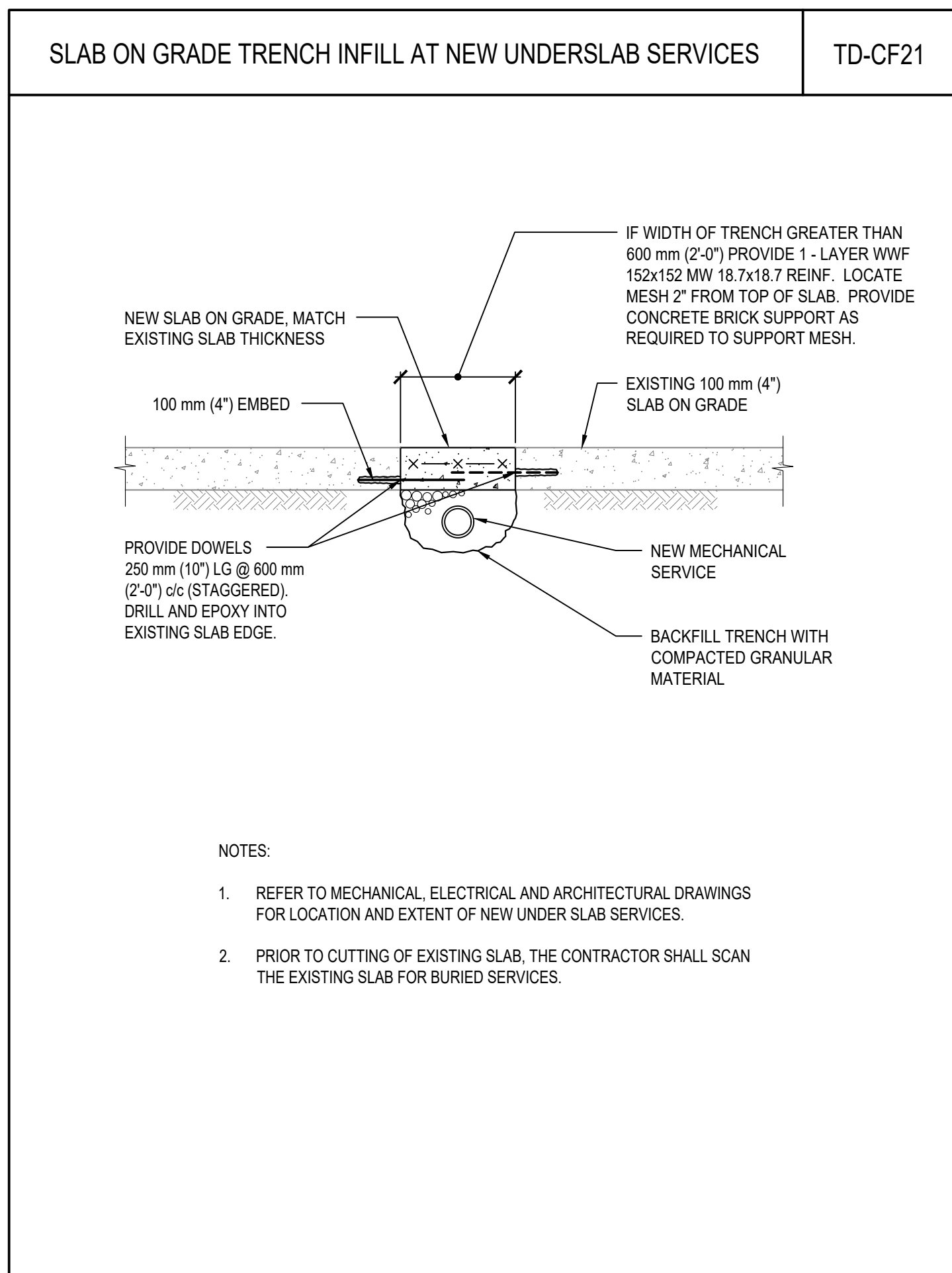
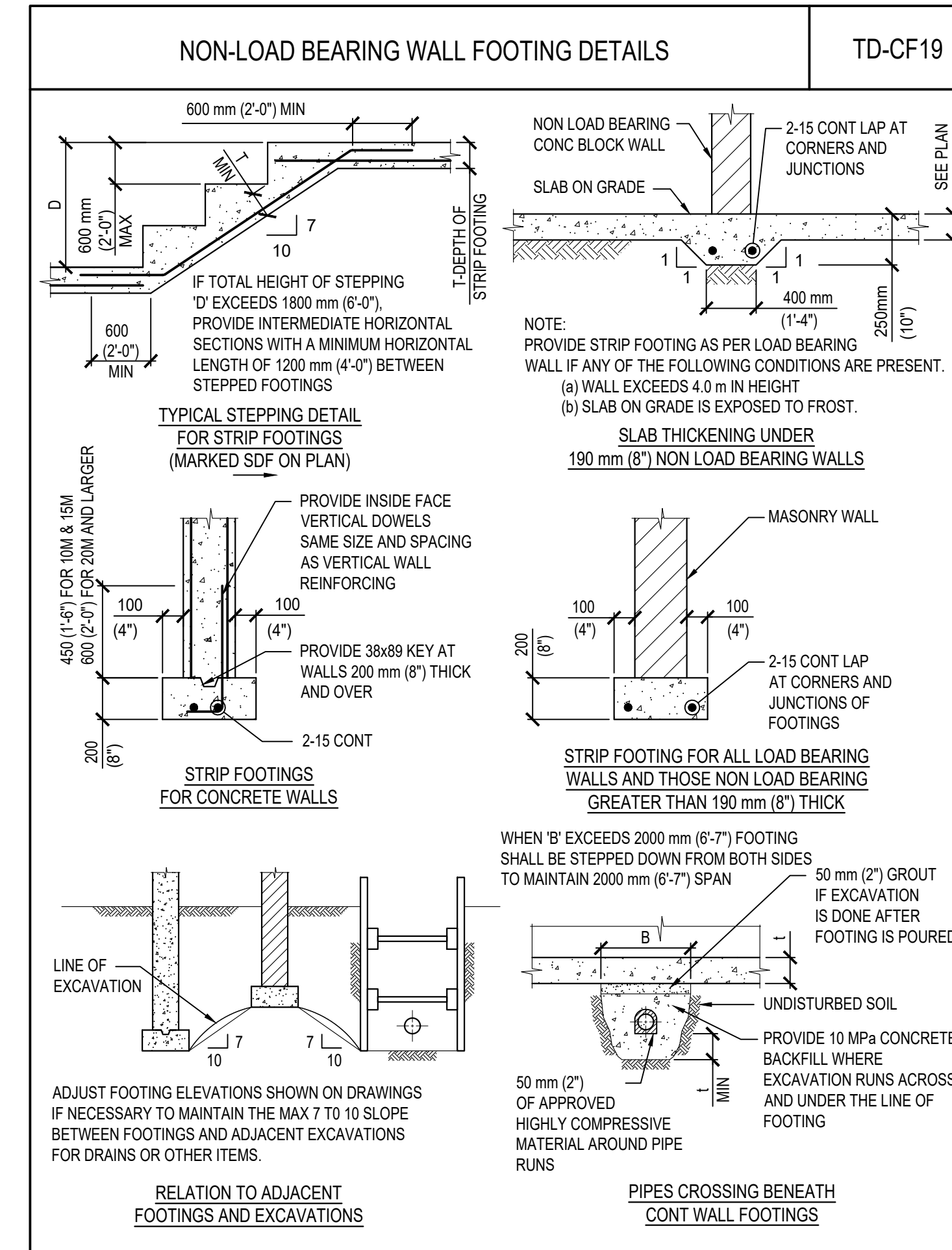
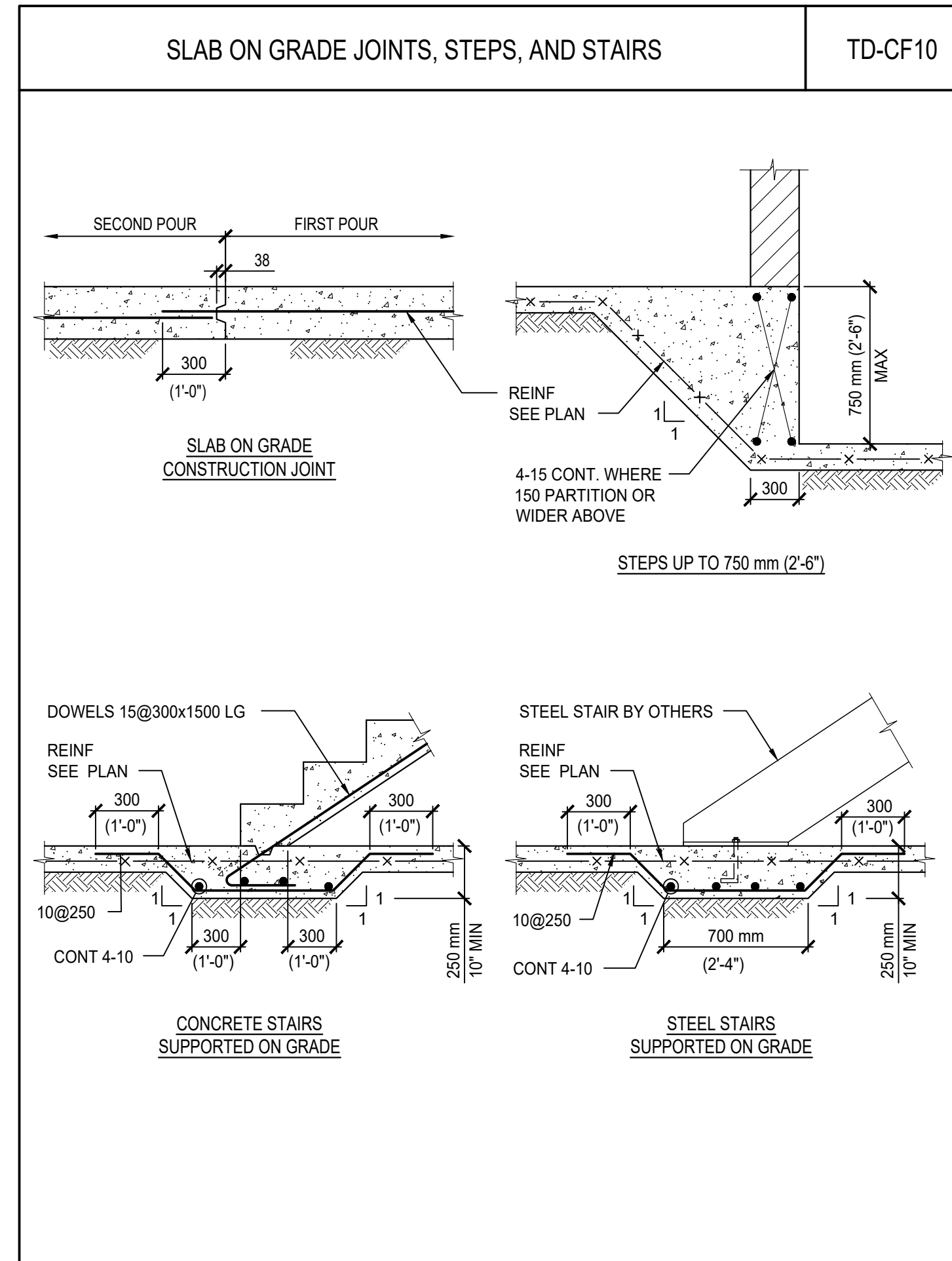
Sheet Title

## GENERAL NOTES



No.	Revision Description	YYYY-MM-DD
1	ISSUED FOR PERMIT	2024 - 02 - 08
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STRUCTURAL ABBREVIATIONS		TD-G01
A BOLT	ANCHOR BOLT	f <sub>c</sub> 28 DAYS CONCRETE COMPRESSIVE STRENGTH
ADJ	ADJUSTABLE	OF OPENING
AF	ABOVE FINISHED FLOOR	OWS OPEN WEB STEEL JOIST
AIFB	ASPHALT IMPREGNATED FIBREBOARD	PF PRECAST
ALT	ALTERNATE	PL PLATE
ARCH	ARCHITECTURAL	PLF POUNDS PER LINEAR FOOT
ASL	ADDITIONAL ACCUMULATED SNOW LOAD	PROJ PROJECTION
@	AT	PSF POUNDS PER SQUARE FOOT
B, BOTT	BOTTOM	PT PRESSURE TREATED
B/B	BACK TO BACK	RD ROOF DRAIN
BEW	BOTTOM EACH WAY	RF REACTION (FACTORED)
BH	BOREHOLE	READ RADIUS
BLL	BOTTOM LOWER LAYER	REF REINFORCED REINFORCEMENT
BLDG	BUILDING	REF REFERENCE
BM	BEAM	RE HORIZONTAL INSIDE FACE
BPL	BEARING/BASE PLATE	REI HORIZONTAL OUTSIDE FACE
BRDG	BRIDGING	REQD REQUIRED
BUL	BOTTOM UPPER LAYER	REV REVISION, REVISED
c	CAMBER	RHW HORIZONTALLY SLOTTED CONNECTION
c	CA	SAD SEE ARCHITECTURAL DRAWINGS
c/c, c/c	CENTRE TO CENTRE	SEC SECTION
CA	COLUMN ABOVE	SECT SECTION
CB	COLUMN BELOW	SIM SIMILAR
CANT	CANTILEVER	SL SLAB
C1	COMPRESSIVE FORCE (FACTORED)	SOG SLAB ON GRADE
CJ	CONTROL JOINT	SPDD STANDARD PROCTOR DRY DENSITY
CL	CENTRELINE	ST STRAIGHT
COL	COLUMN	STIFF STIFFENER
COMP	COMPOSITE	STIR STIRRUP
CONC	CONCRETE	STRUCT STRUCTURAL
CONT	CONTINUOUS	STD STANDARD
C/W	COMPLETE WITH	SQ SQUARE
DEMO	DEMOLITION	T TOP
DET	DETAIL	TI TENSILE FORCE (FACTORED)
DIA, Ø	DIAMETER	TT TEMPORARY, TEMPORARY
DIAG	DIAGONAL	TEW TOP EACH WAY
DIM	DIMENSION	TJ TIE JOIST
DL	DEAD LOAD	TLL TOP LOWER LAYER
DP	DEEP	TMF TORSIONAL MOMENT (FACTORED)
DWG(S)	DRAWING(S)	TOB TOP OF DECK
DWL(S)	DOWEL(S)	TOS TOP OF STEEL/SLAB
DN	DOWN	TRANS TRANSVERSE
EA	EACH	TUL TOP UPPER LAYER
EE	EACH END	TYP TYPICAL
EF	EACH FACE	UL UPPER LAYER
ELEC	ELECTRICAL	UN UNLESS NOTED OTHERWISE
EL	ELEVATION	US UNDERMETRE
ELEV	ELEVATOR	V, VERT VERTICAL
EMBED	EMBEDMENT	VF VERTICAL SHEAR FORCE (FACTORED)
EQ	EQUAL	VEF VERTICAL EACH FACE
ES	EACH SIDE	VIF VERTICAL INSIDE FACE
EX, EXIST	EXISTING	VOF VERTICAL OUTSIDE FACE
EJ, EXP, JT	EXPANSION JOINT	VSC VERTICALLY SLOTTED CONNECTION
E-W	EAST WEST	W WIDE FLANGE BEAM
EW	EACH WAY	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 <sub>y</sub> = 400 MPa							
f <sub>c</sub> (MPa)	BAR SIZE	10	15	20	25	30	35
20	10	560	840	1120	1750	2100	2450
25	10	500	750	1000	1560	1880	2190
30	10	460	690	920	1430	1710	2000
35	10	430	640	850	1320	1590	1850
40	10	400	600	790	1240	1480	1730
45	10	390	560	750	1170	1400	1630
50	10	390	530	710	1110	1330	1550
55	10	390	510	680	1060	1270	1480
60	10	390	490	650	1010	1210	1410
64 TO 80	10	390	470	630	980	1170	1370

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

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

TABLE D BLACK BAR COMPRESSION LAP SPLICE AND DEVELOPMENT LENGTHS f <sub>y</sub> = 400 MPa							
f <sub>c</sub> (MPa)	BAR SIZE	10	15	20	25	30	35
20	LAP SPLICE	300	440	590	730	880	1030
20	DEVELOPMENT	220	330	430	540	650	760
25	LAP SPLICE	300	440	590	730	880	1030
25	DEVELOPMENT	200	290	390	480	580	680
30	LAP SPLICE	300	440	590	730	880	1030
30	DEVELOPMENT	200	270	360	440	530	620
35	LAP SPLICE	300	440	590	730	880	1030
35	DEVELOPMENT	200	270	360	440	530	620
40	LAP SPLICE	200	250	330	410	490	570
40	DEVELOPMENT	200	230	310	380	460	540
45	LAP SPLICE	300	440	590	730	880	1030
45	DEVELOPMENT	200	220	290	360	430	510
50	LAP SPLICE	300	440	590	730	880	1030
50	DEVELOPMENT	200	210	280	340	410	480
55	LAP SPLICE	300	440	590	730	880	1030
55	DEVELOPMENT	200	200	260	330	390	460
60	LAP SPLICE	300	440	590	730	880	1030
60	DEVELOPMENT	200	200	250	310	380	440
64 TO 80	LAP SPLICE	300	440	590	730	880	1030
64 TO 80	DEVELOPMENT	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 <sub>y</sub> = 400 MPa							
f <sub>c</sub> (MPa)	BAR SIZE	10	15	20	25	30	35
20	10	420	630	840	1310	1570	1840
25	10	380	570	750	1170	1410	1640
30	10	350	520	690	1070	1290	1500
35	10	320	480	640	990	1190	1390
40	10	300	450	600	930	1110	1300
45	10	300	420	560	880	1050	1230
50	10	300	400	530	830	1000	1160
55	10	300	380	510	790	950	1110
60	10	300	370	490	760	910	1060
64 TO 80	10	300	360	470	740	880	1030

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

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

**NOTES:**  
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.

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

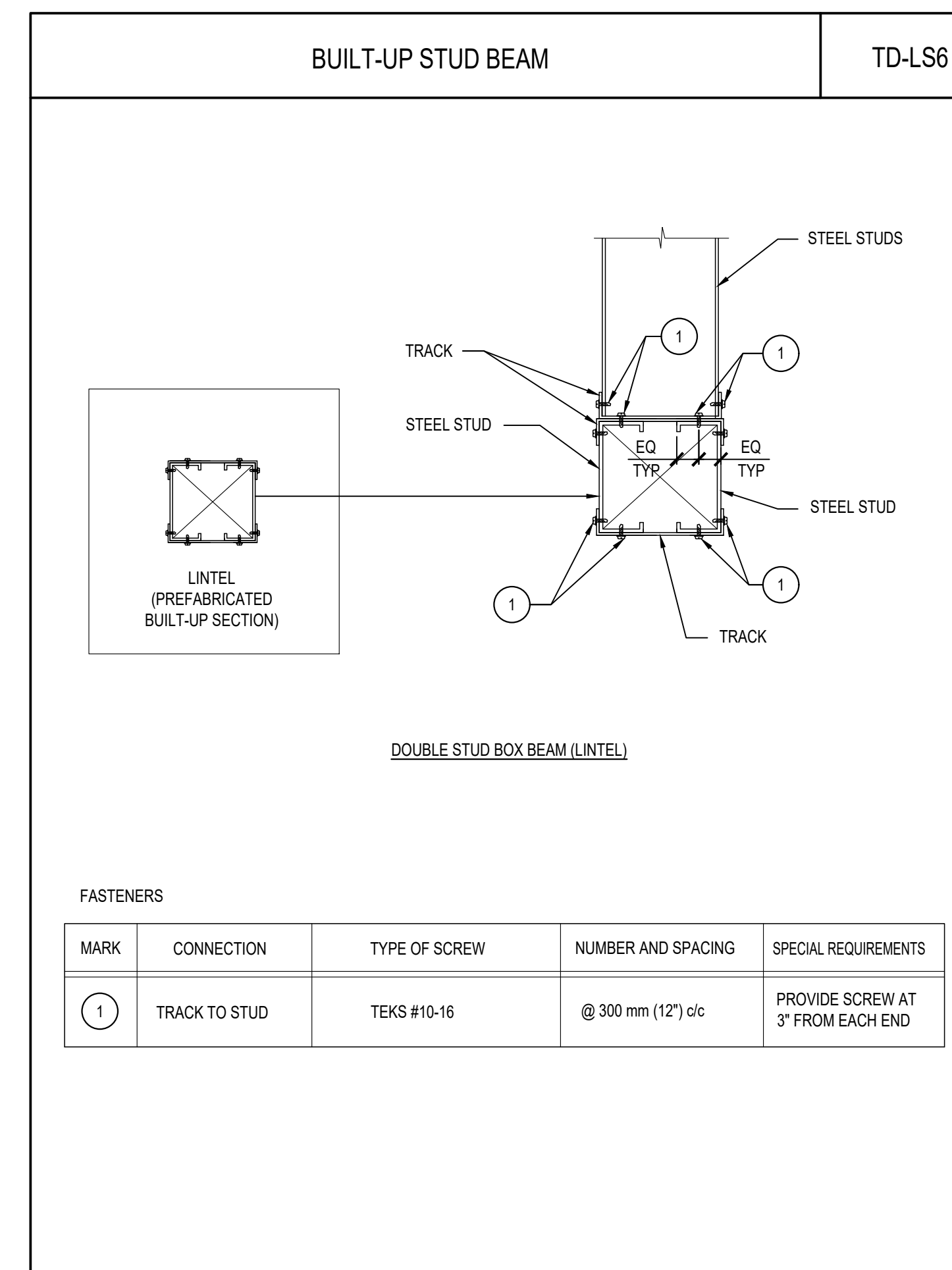
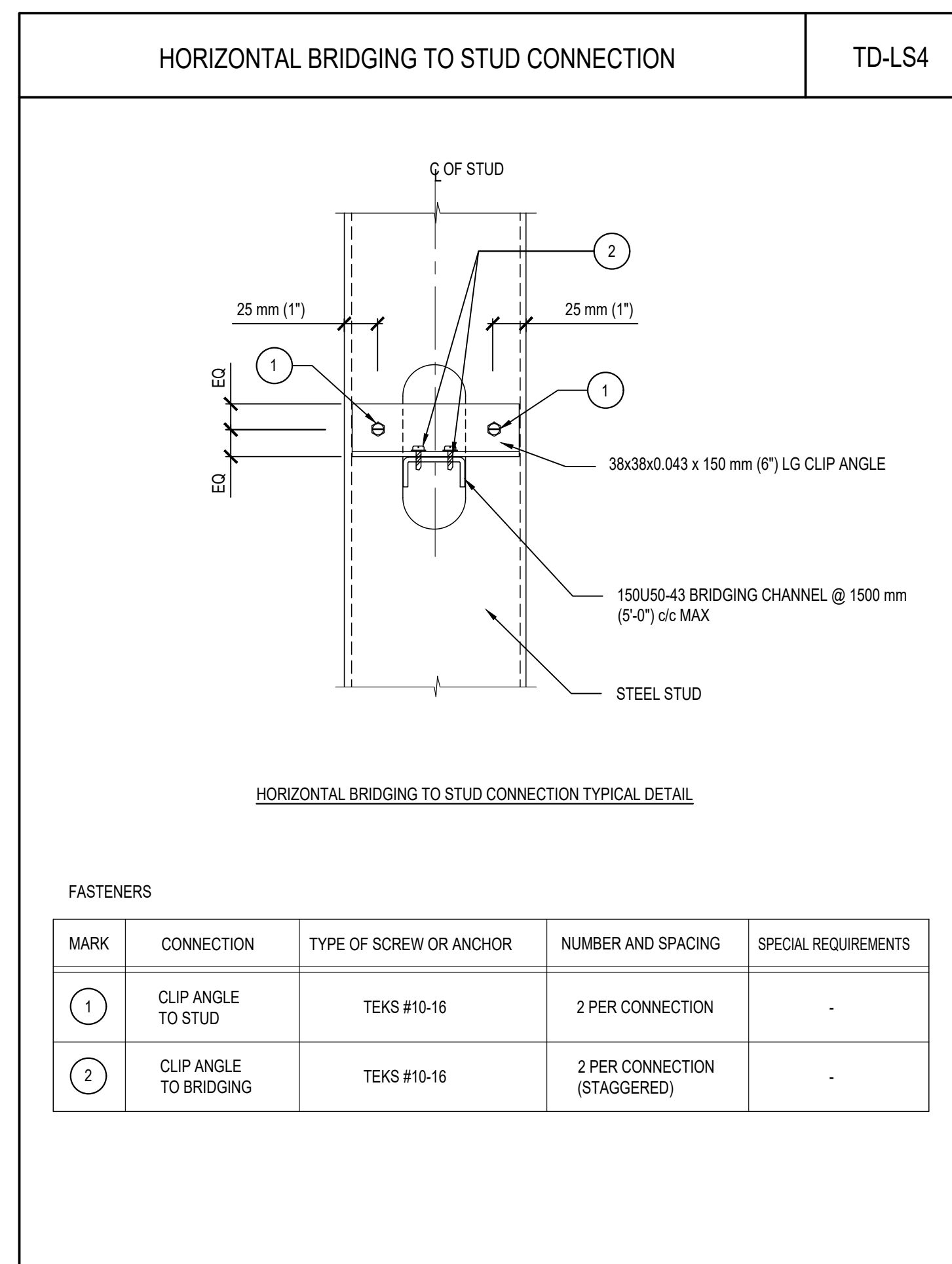
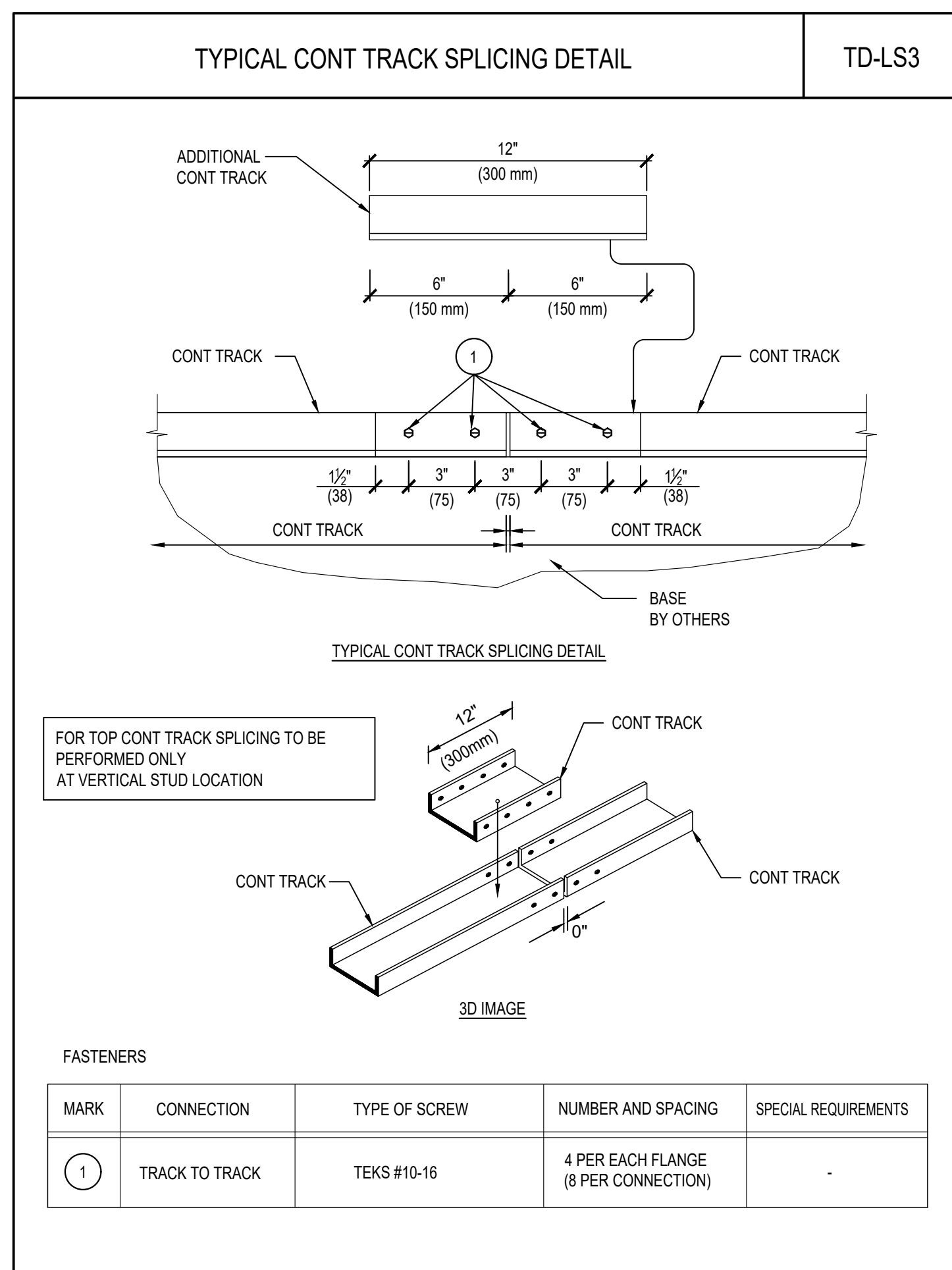
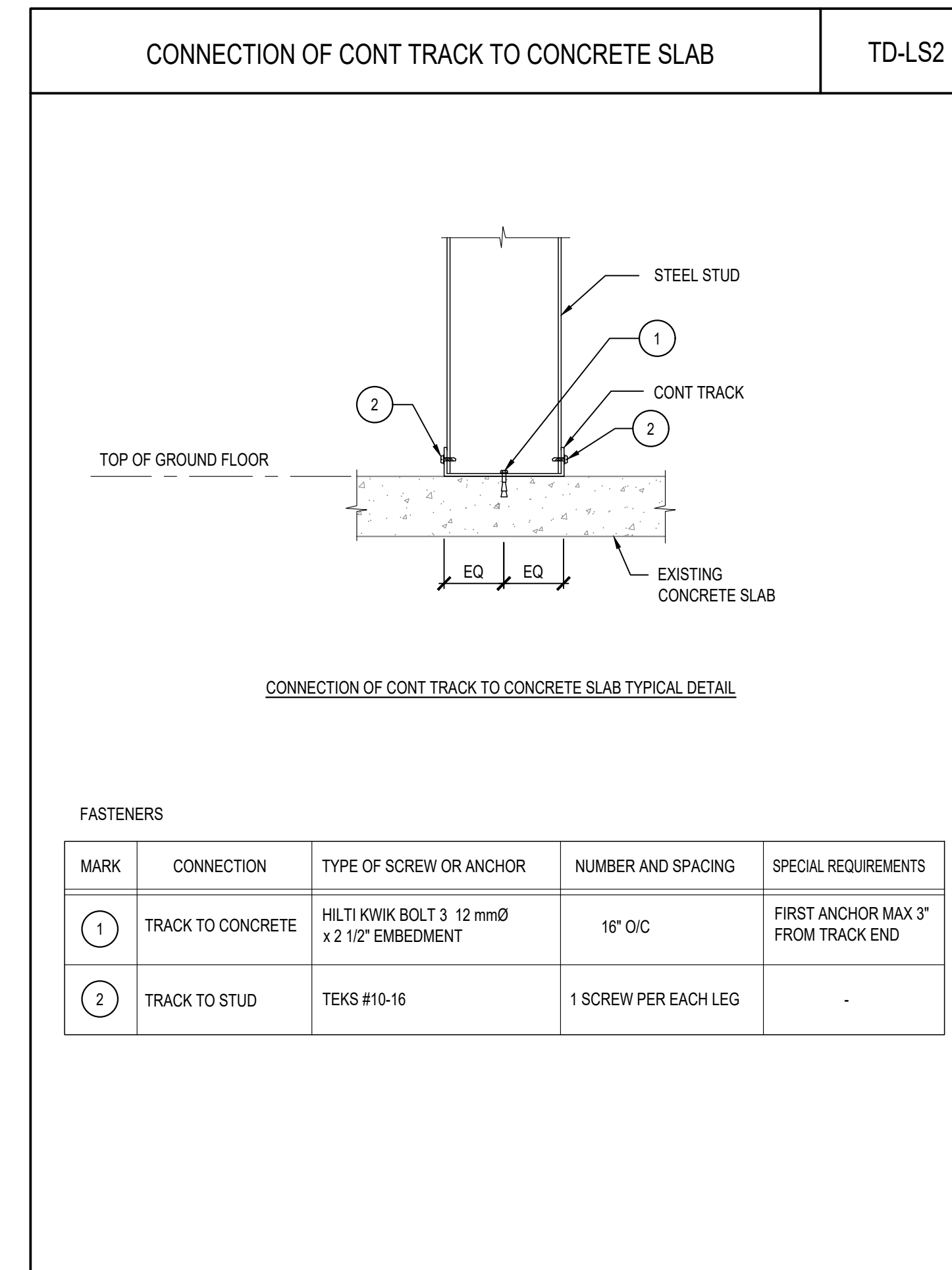
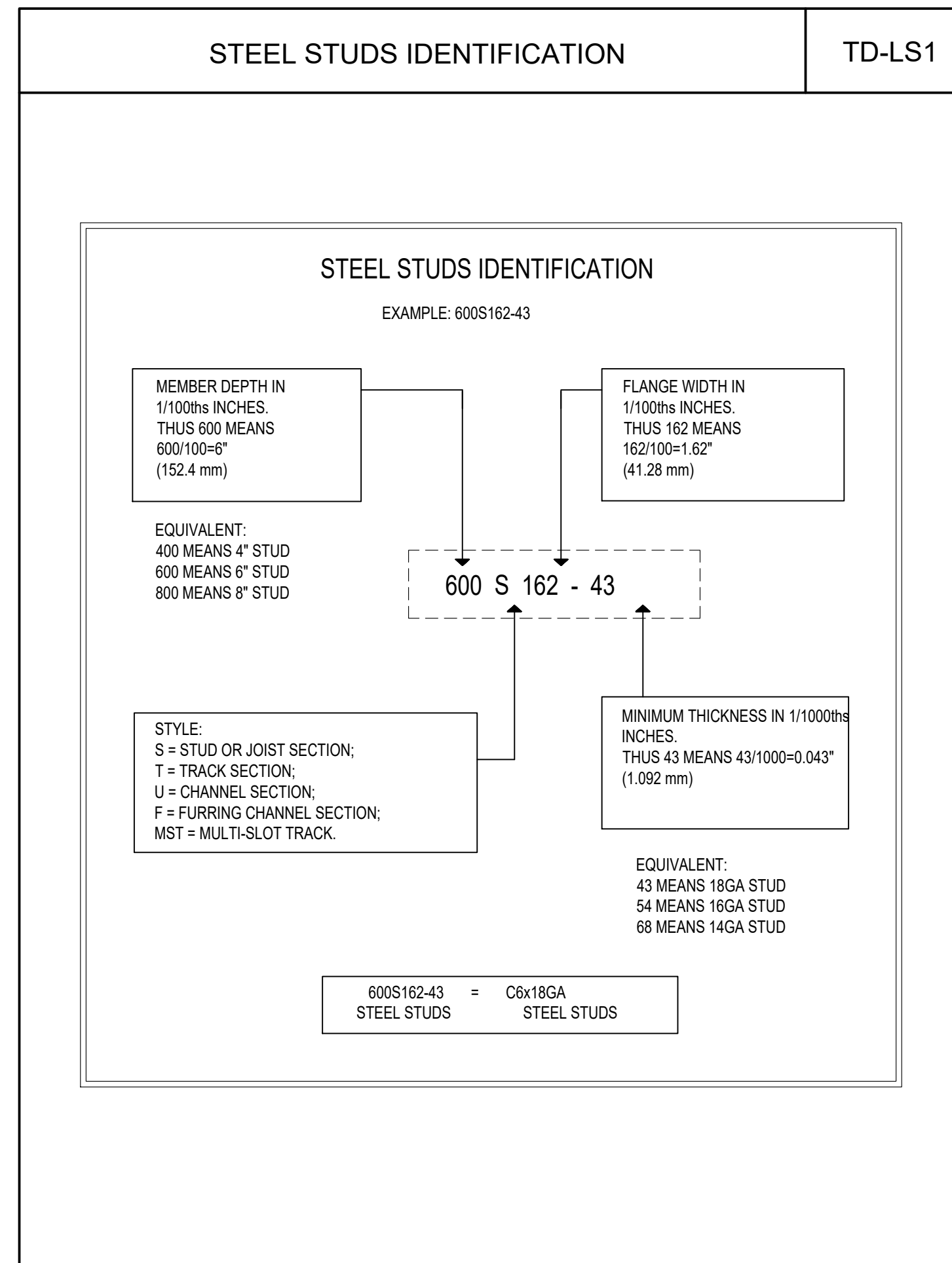
Sheet Number



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			
fc (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.  
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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.



North

Project Title:

**PARK WASHROOM RENOVATION**

1873 BLOOR STREET WEST, TORONTO, ON

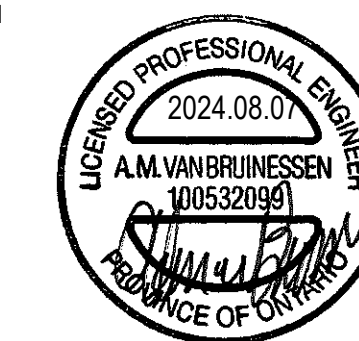
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Drawn by: AQV Date: MAY 29, 2024

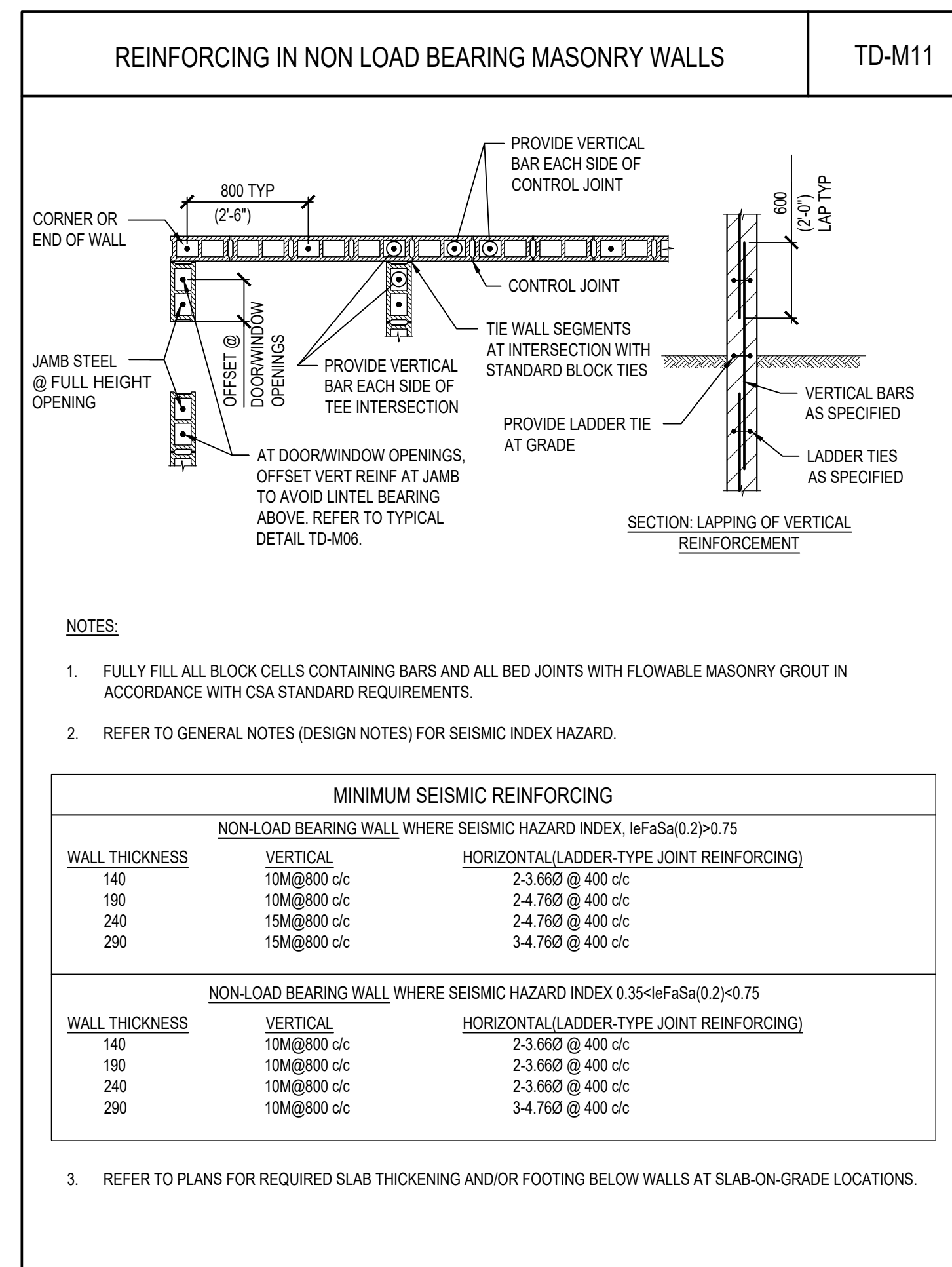
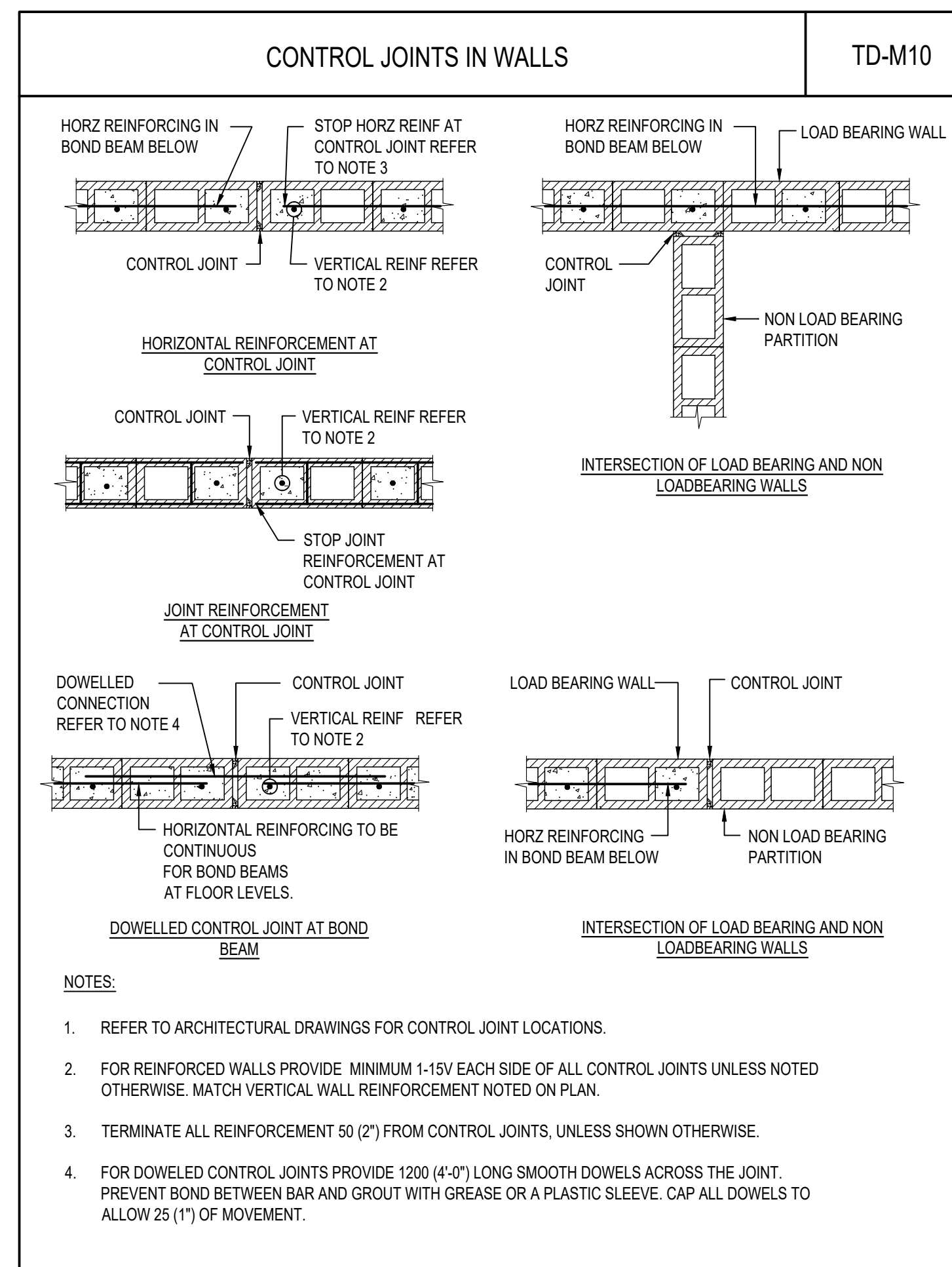
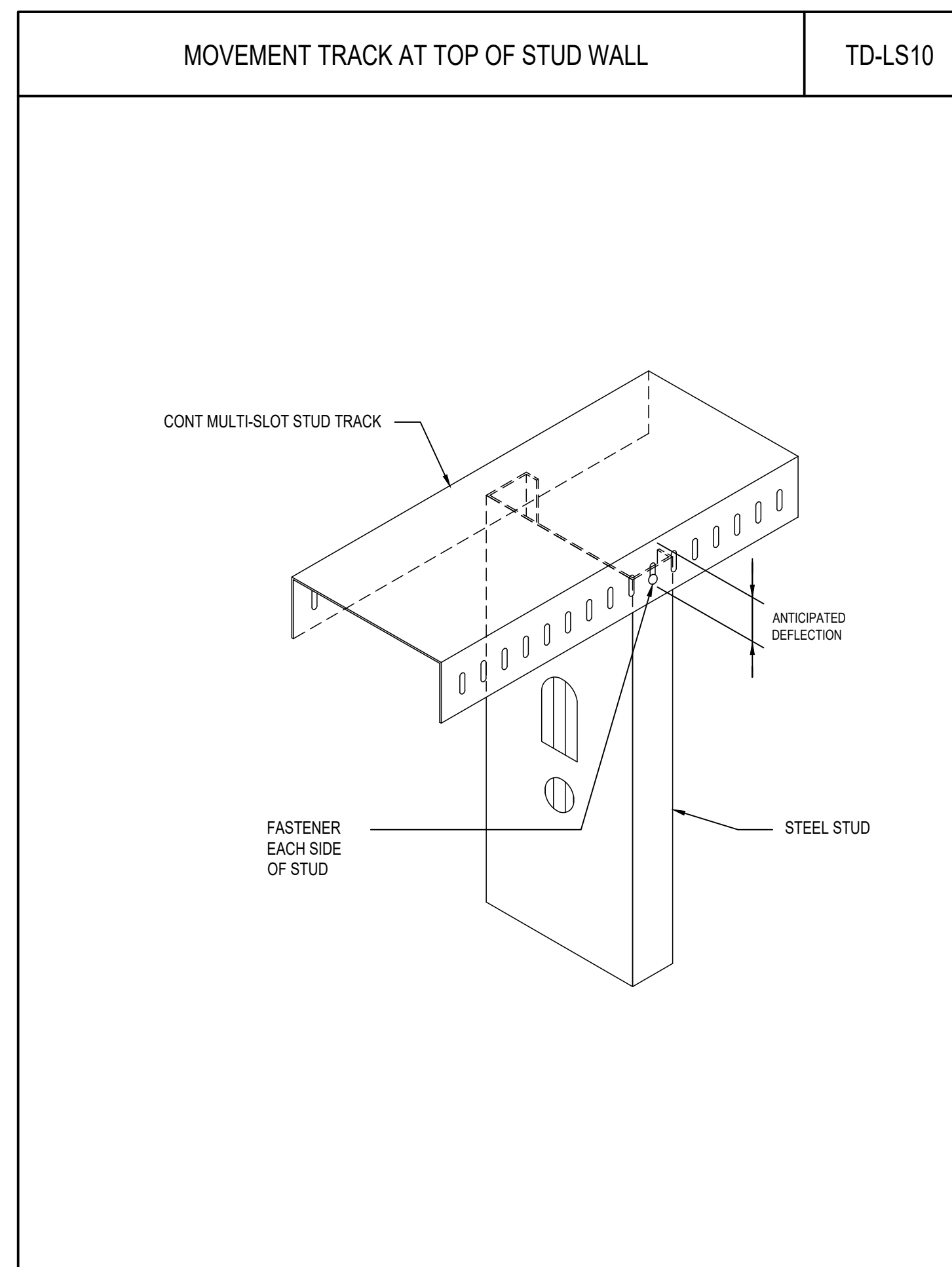
Sheet Title

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)**

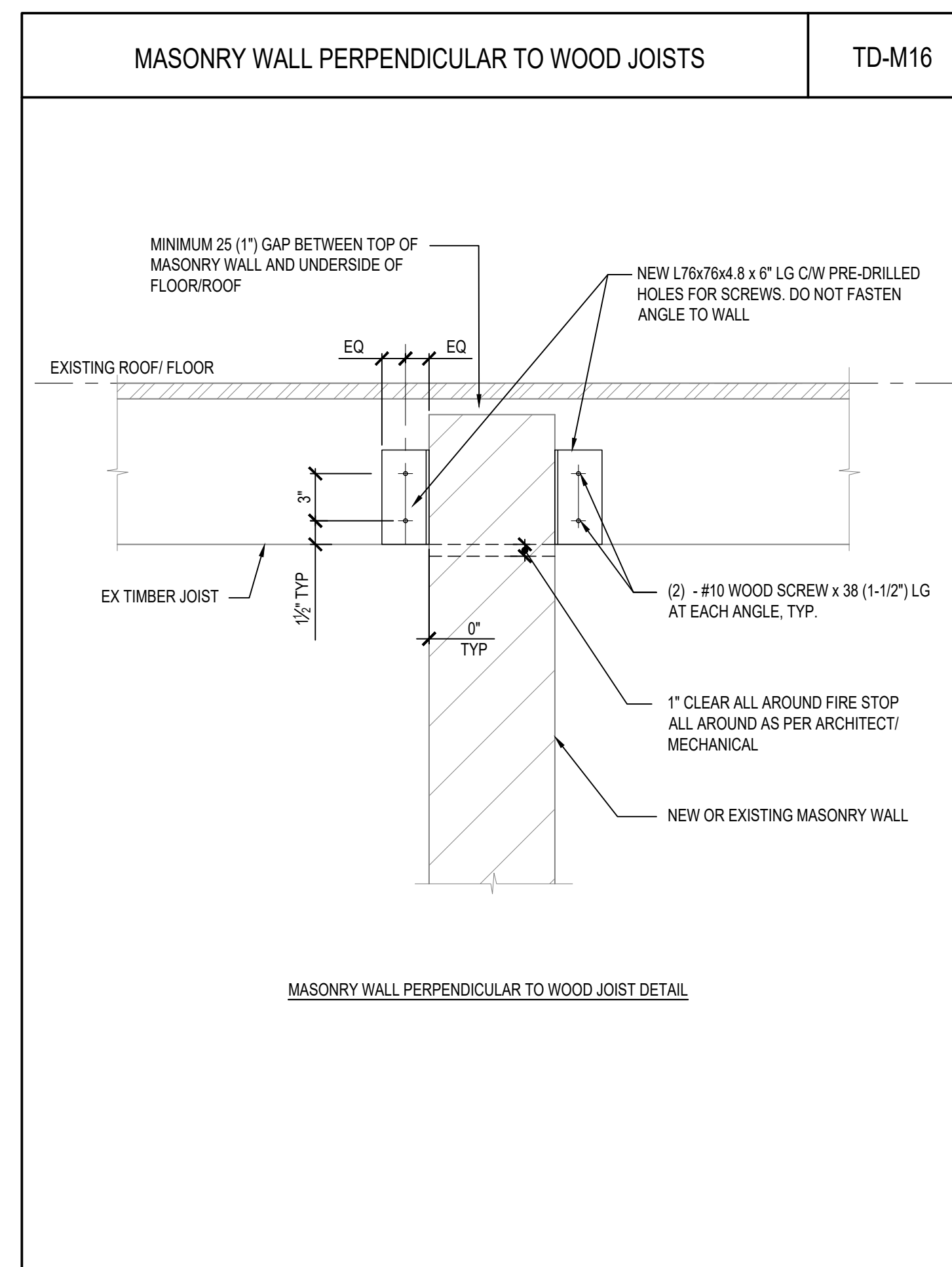
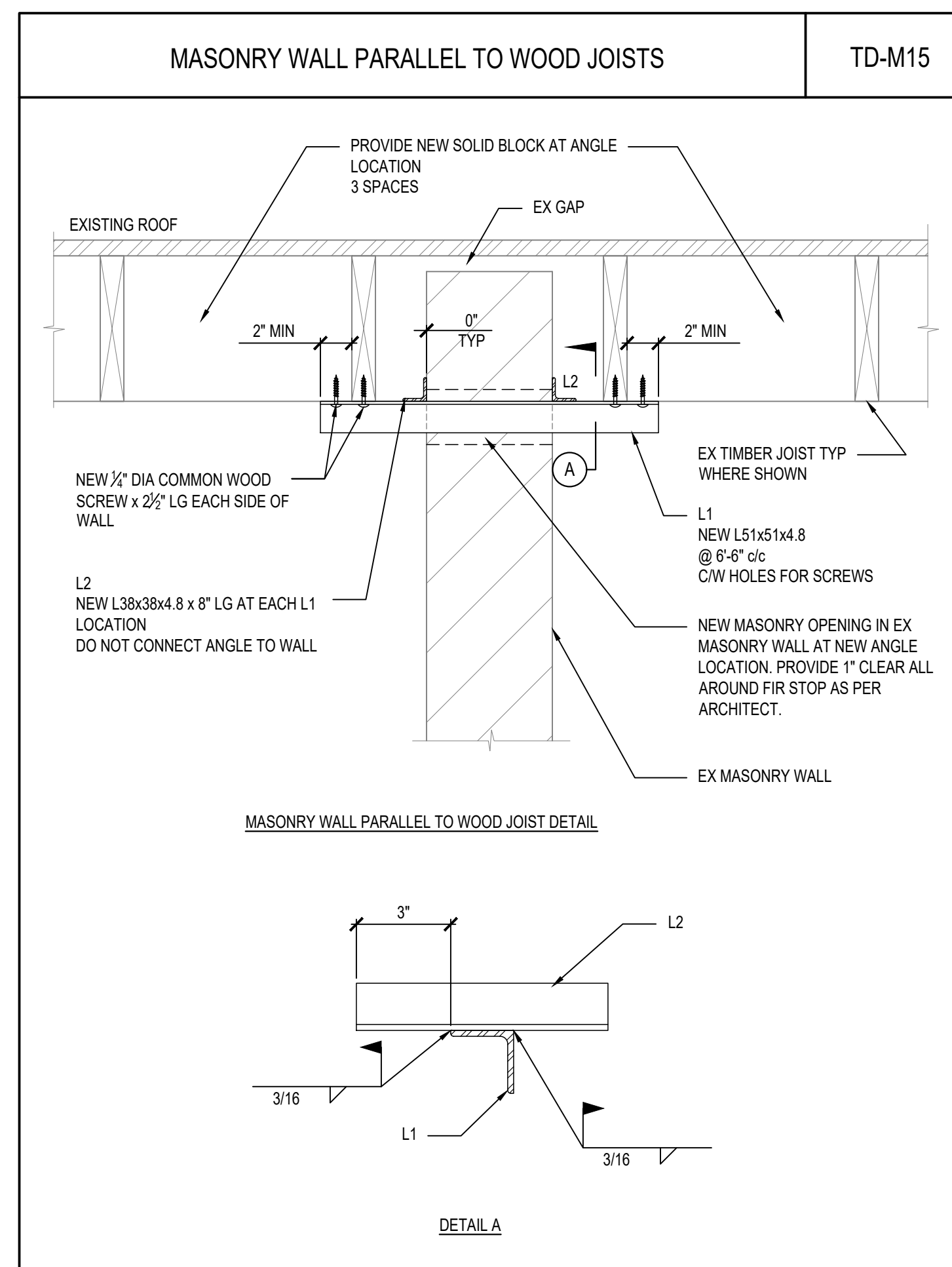
BAR SIZE	GROUT STRENGTH			
	10 MPa	15 MPa	20 MPa	25 MPa
10M	310	250	220	200
15M	460	380	330	290
20M	610	500	430	390
25M	760	620	540	480
30M	920	750	650	580

**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

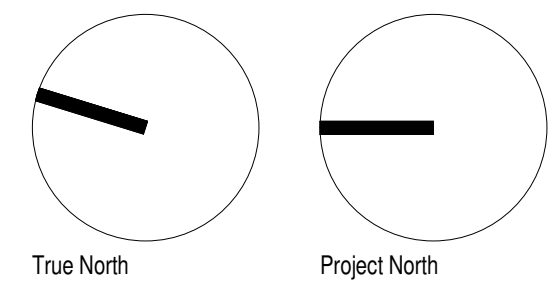
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Sheet Title

TYPICAL DETAILS

Sheet Number



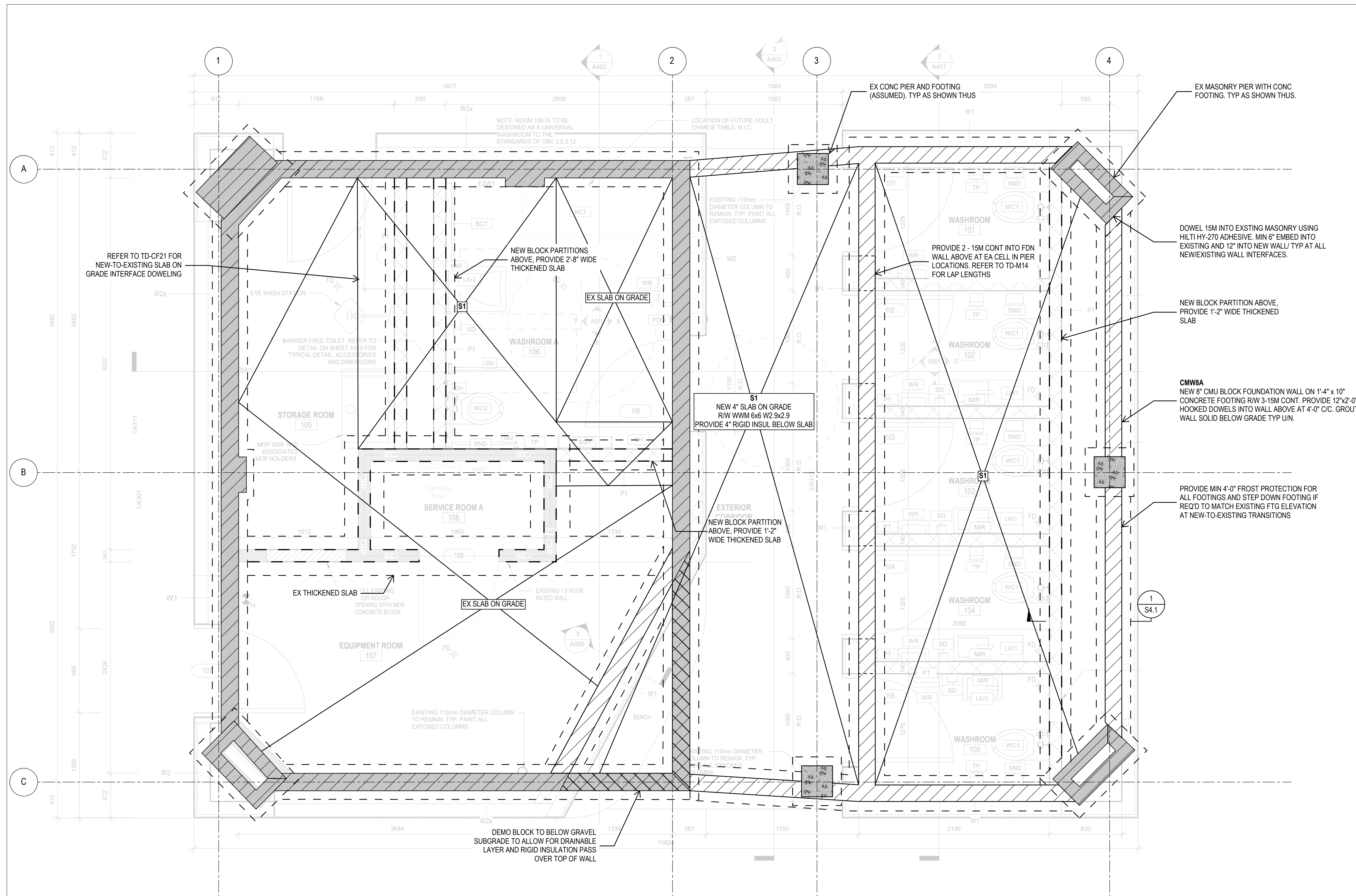
**Lower Hillside Washroom Building Improvements**  
City of Toronto  
1873 BLOOR ST W  
TORONTO, ON M8R 2Z3

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

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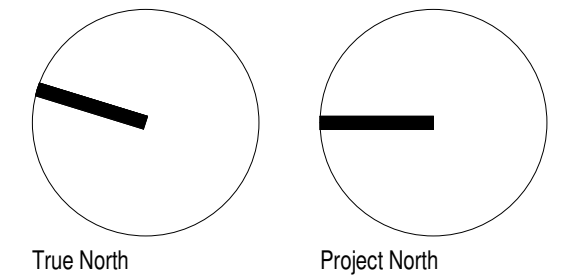
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Checked: ADV  
Issued For: TENDER  
Date: MAY 29, 2024

FOUNDATION PLAN



**A FOUNDATION FRAMING PLAN**  
S2.1 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



**Lower Hillside Washroom Building Improvements**  
City of Toronto  
1873 BLOOR ST W  
TORONTO, ON M8R 2Z3

2222

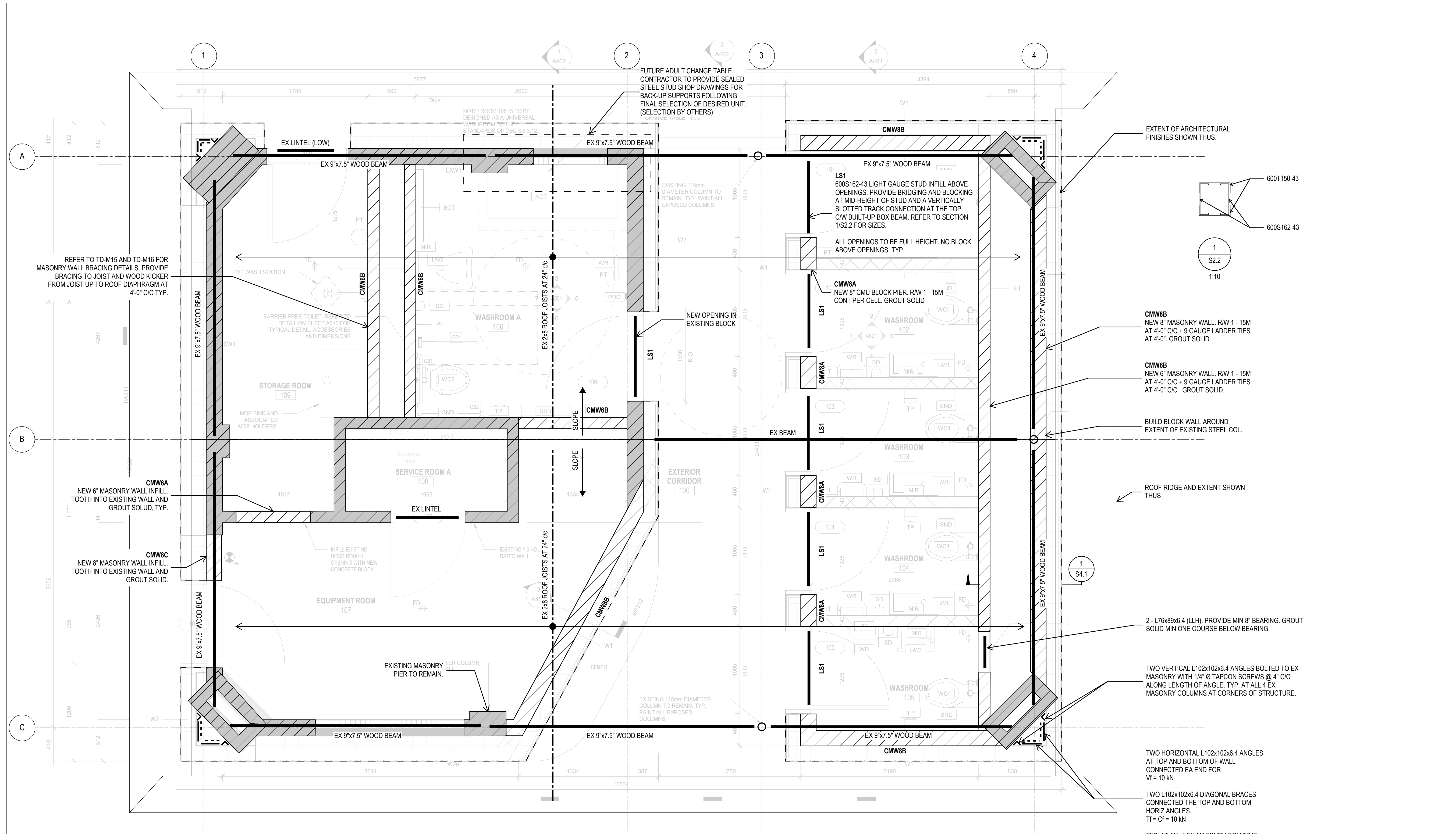
No.	Date	Description
1	FEB 08, 2024	ISSUED FOR PERMIT
2	AUG 07, 2024	ISSUED FOR TENDER

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Date: MAY 29, 2024

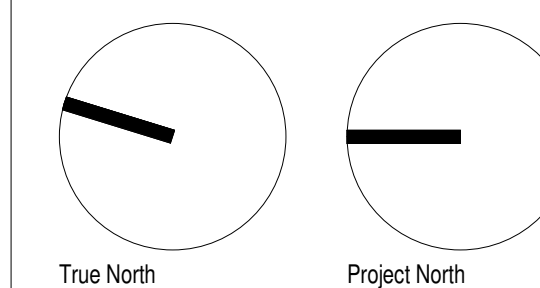
ROOF FRAMING PLAN

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.



Lower Hillside Washroom Building  
Improvements  
City of Toronto  
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TORONTO, ON M6R 2Z3

2222

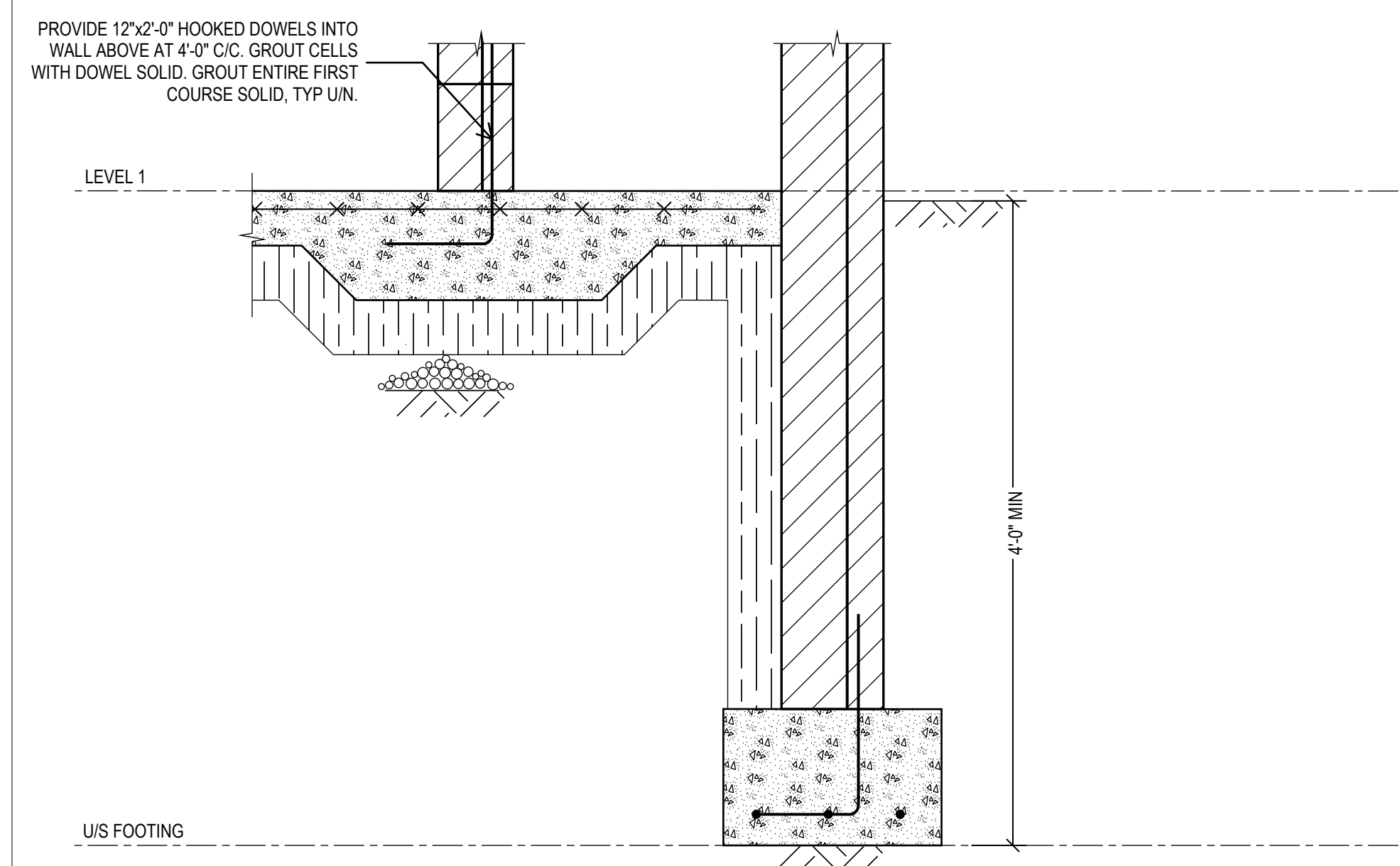
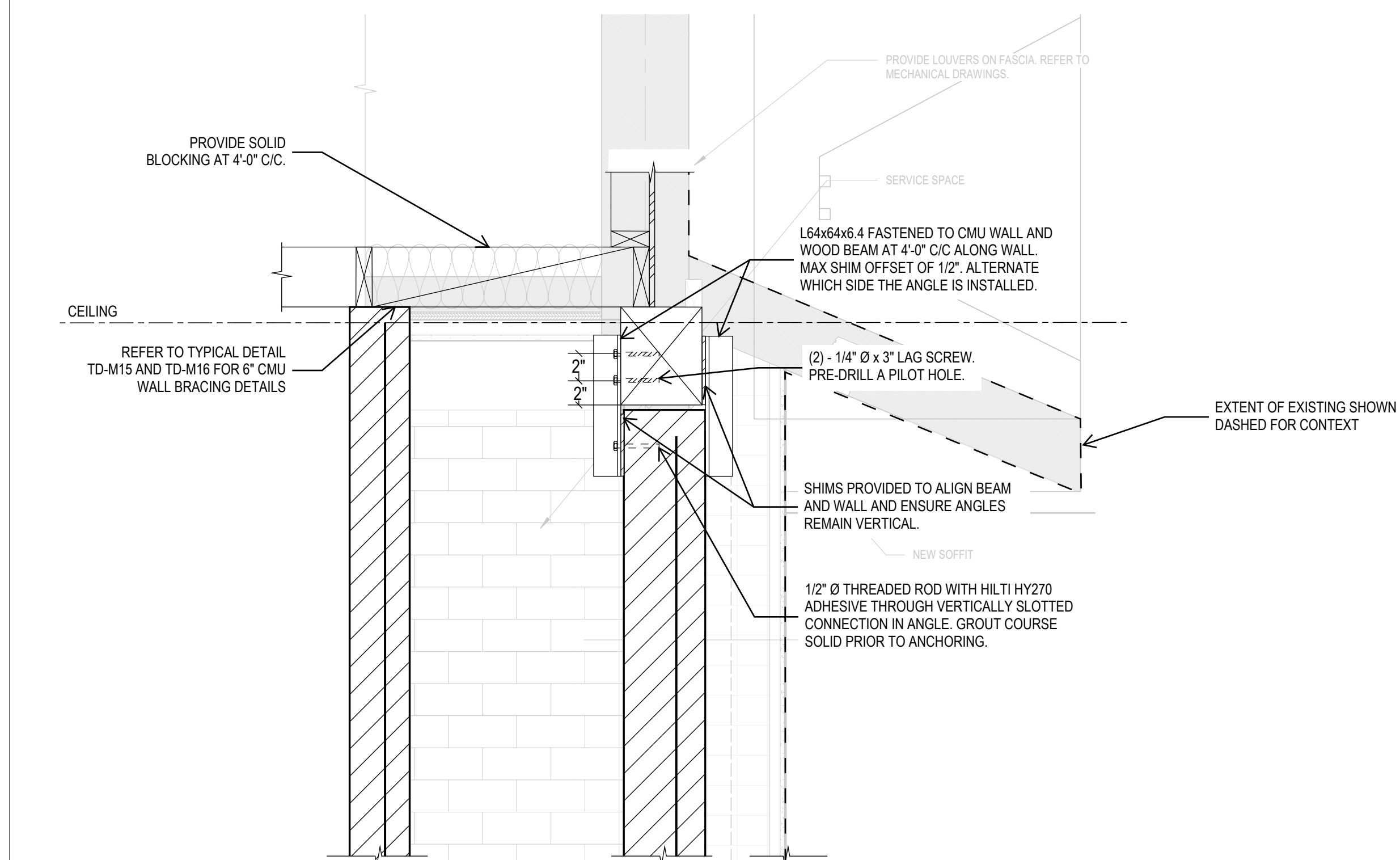
No.	Date	Description
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Drawn: STB  
Checked: ADV  
Issued For: TENDER  
Date: MAY 29, 2024

DETAILS AND SECTIONS

S4.1



1  
S4.1  
1:10

PROJECT CONTACT

NAME: SCOTT GOULD  
TEL: 416-218-7019  
EMAIL: scott.gould@smithandandersen.com

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



Smith + Andersen

1100 - 100 Sheppard Ave. East, Toronto, ON, M2N 6H5  
416 487 8151 F 416 487 9104 smithandandersen.com

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
3.	24/08/07	Issued for Tender

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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

3 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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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
3.	24/08/07	Issued for Tender

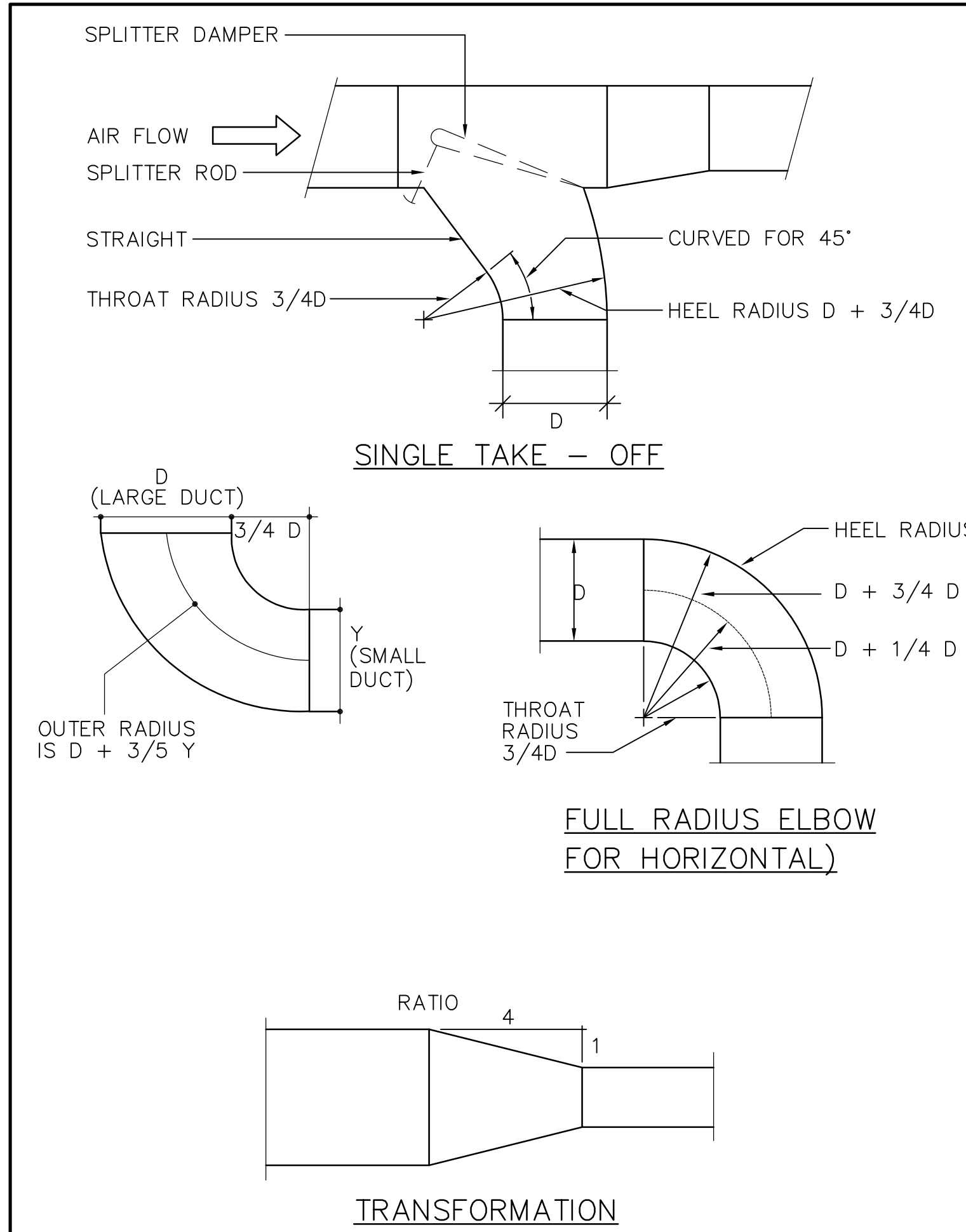
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Checked: A.V.  
Scale: N.T.S.  
Date: 2023.04  
Sheet Title:

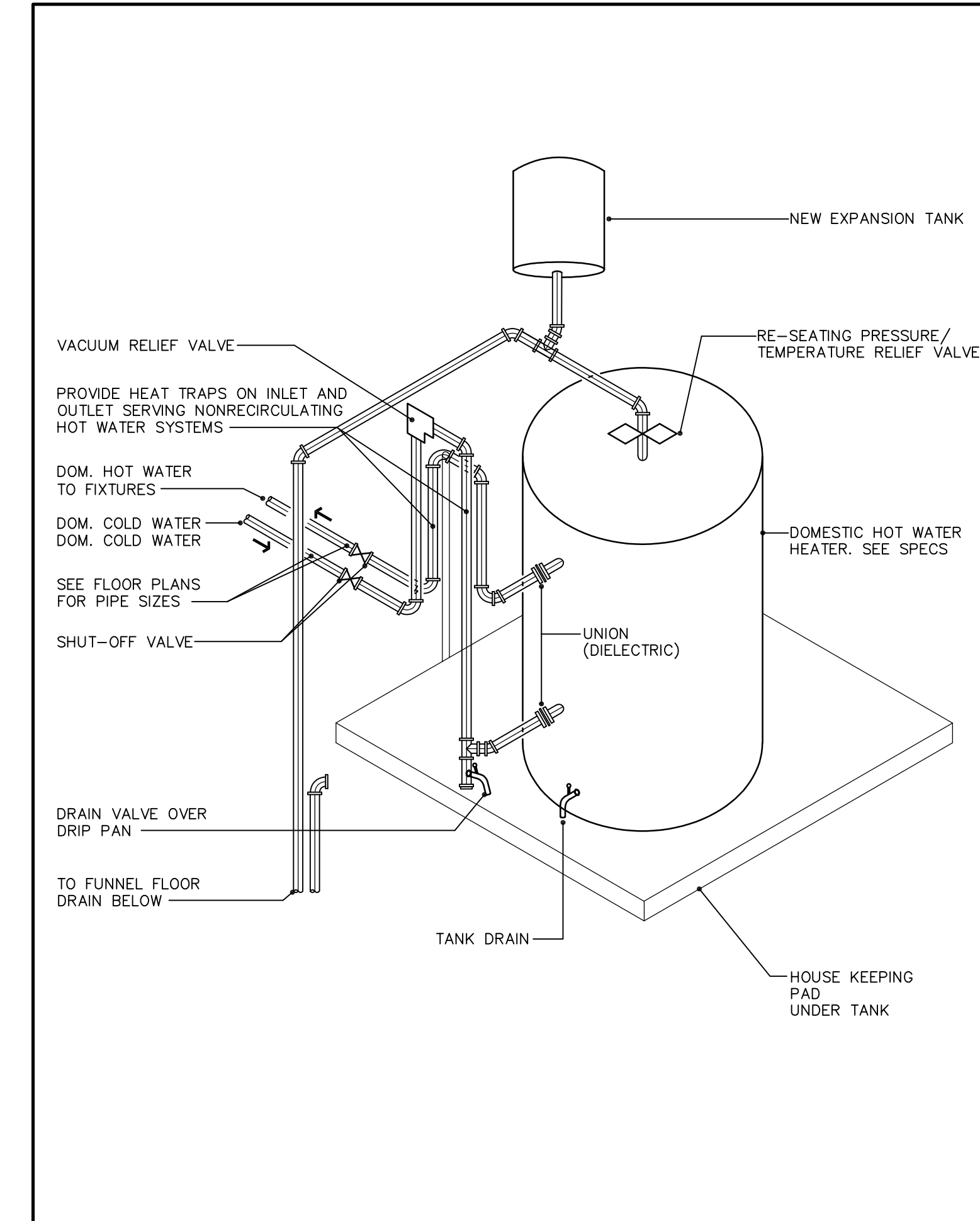
MECHANICAL  
STANDARD DETAILS.

Drawing #:

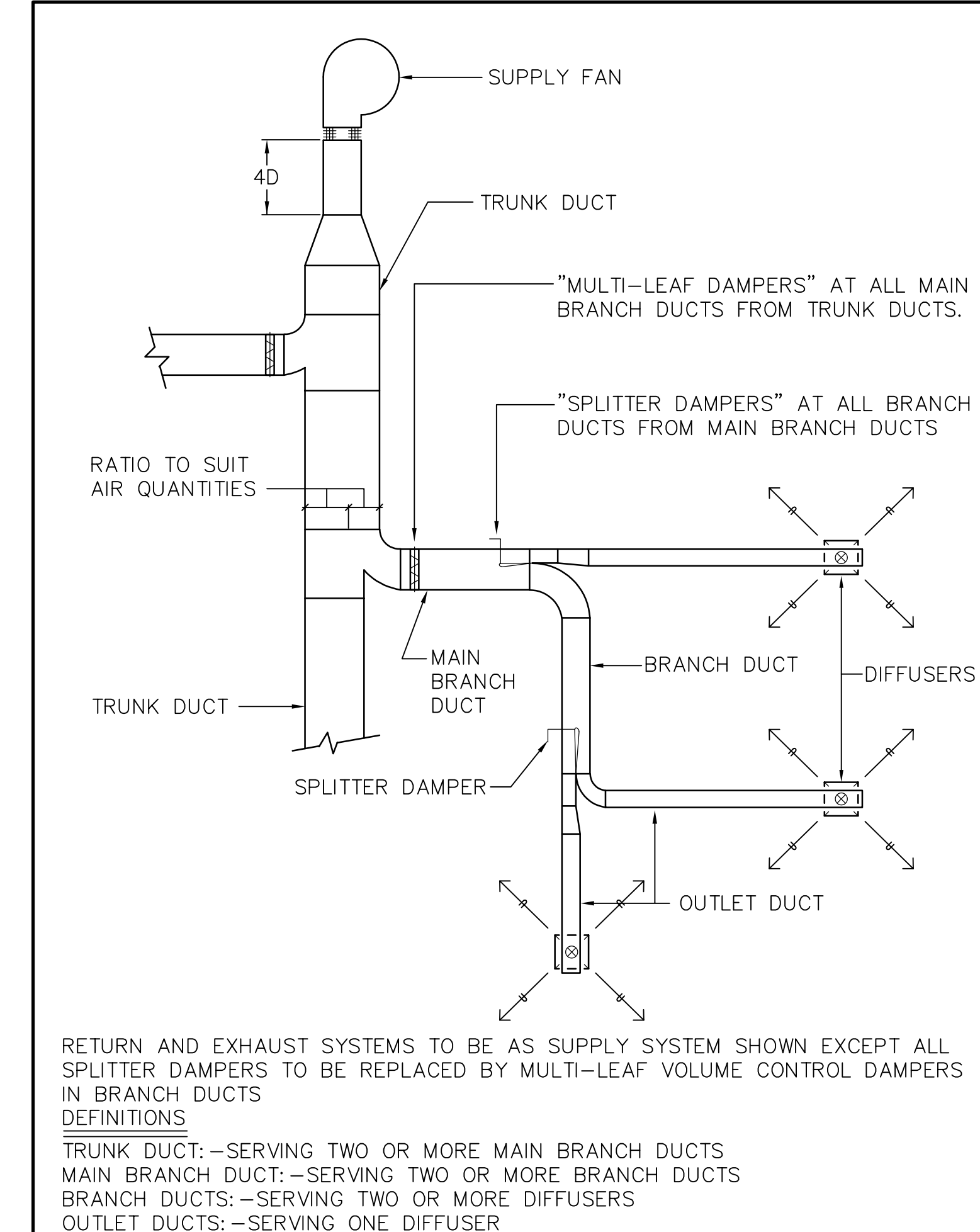
TM-0.1



3 DUCT DETAILS (MSD-840.05)



1 DOM. HOT WATER HEATER DETAIL



2 BALANCING DAMPERS (MSD-840.03)

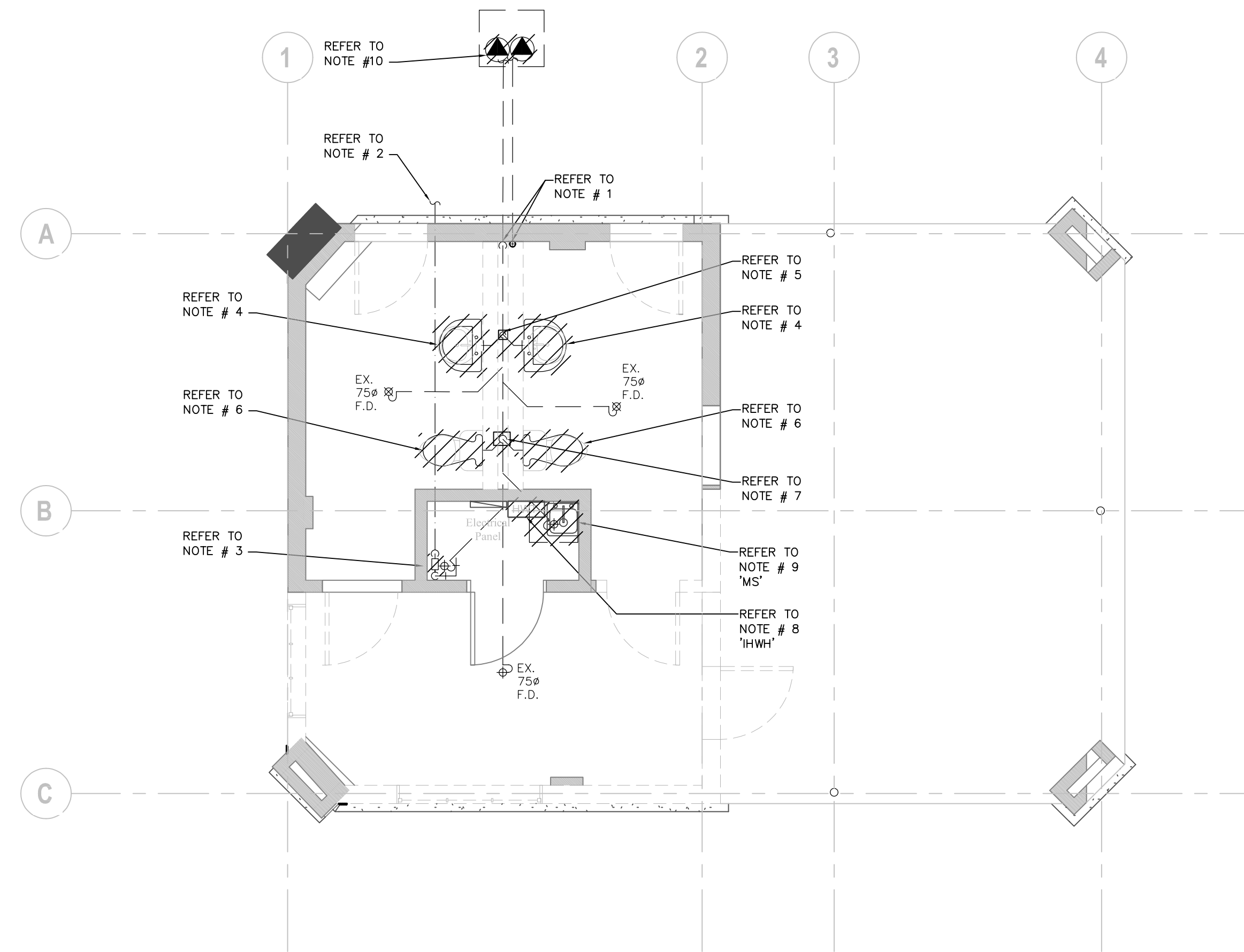
RETURN AND EXHAUST SYSTEMS TO BE AS SUPPLY SYSTEM SHOWN EXCEPT ALL SPLITTER DAMPERS TO BE REPLACED BY MULTI-LEAF VOLUME CONTROL DAMPERS IN BRANCH DUCTS

**DEFINITIONS**  
TRUNK DUCT: -SERVING TWO OR MORE MAIN BRANCH DUCTS  
MAIN BRANCH DUCT: -SERVING TWO OR MORE BRANCH DUCTS  
BRANCH DUCTS: -SERVING TWO OR MORE DIFFUSERS  
OUTLET DUCTS: -SERVING ONE DIFFUSER

5 NOT USED

6 NOT USED

4 NOT USED



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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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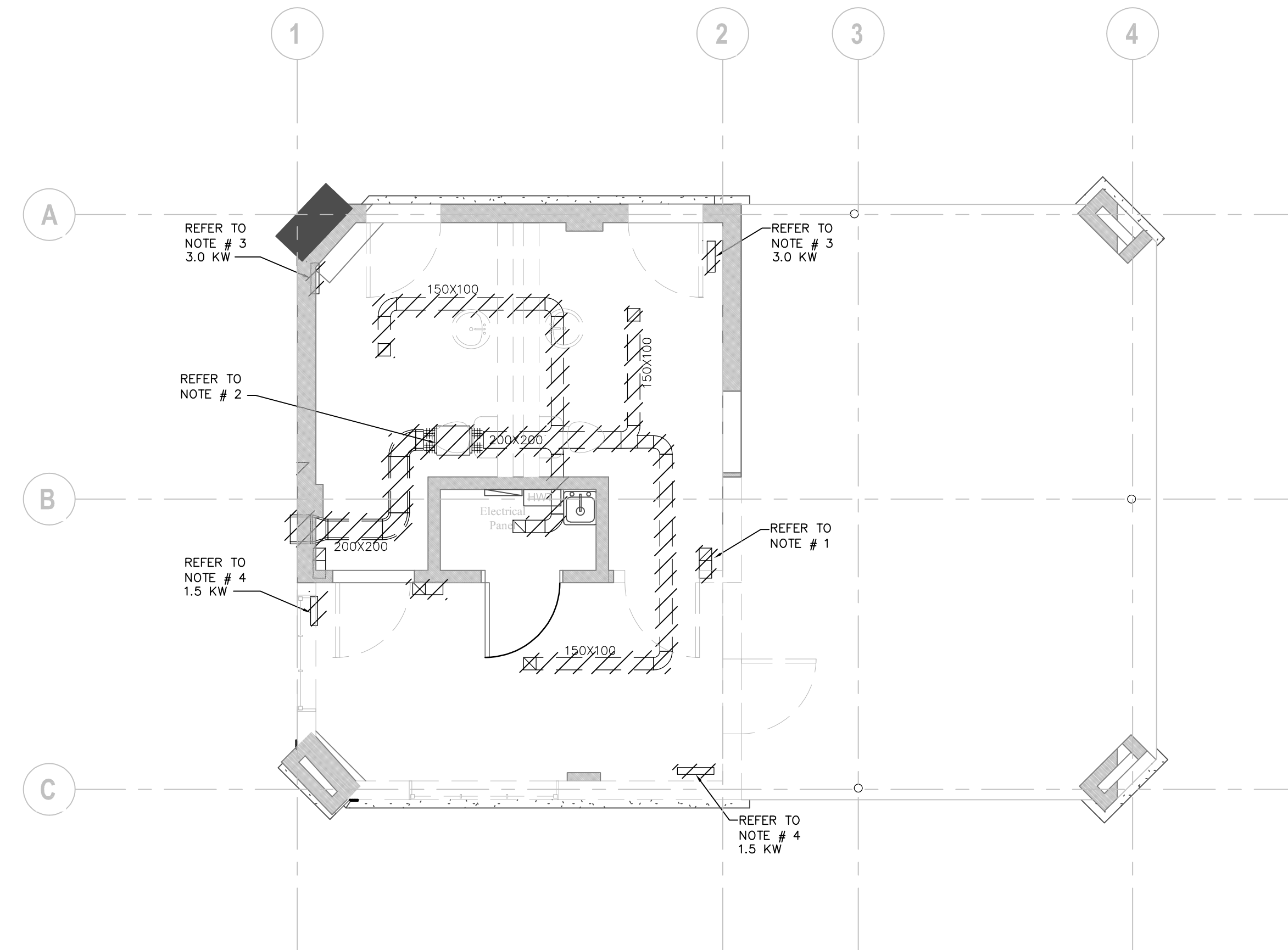
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Project: 23210.001.ME  
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**GROUND FLOOR  
PLUMBING & DRAINAGE  
DEMOLITION LAYOUT**

Drawing #:

**TM-1.2**



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- 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 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.

**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
1.	23/11/06	Issued for 50% Tender Review
2.	24/02/08	Issued for Permit / Tender
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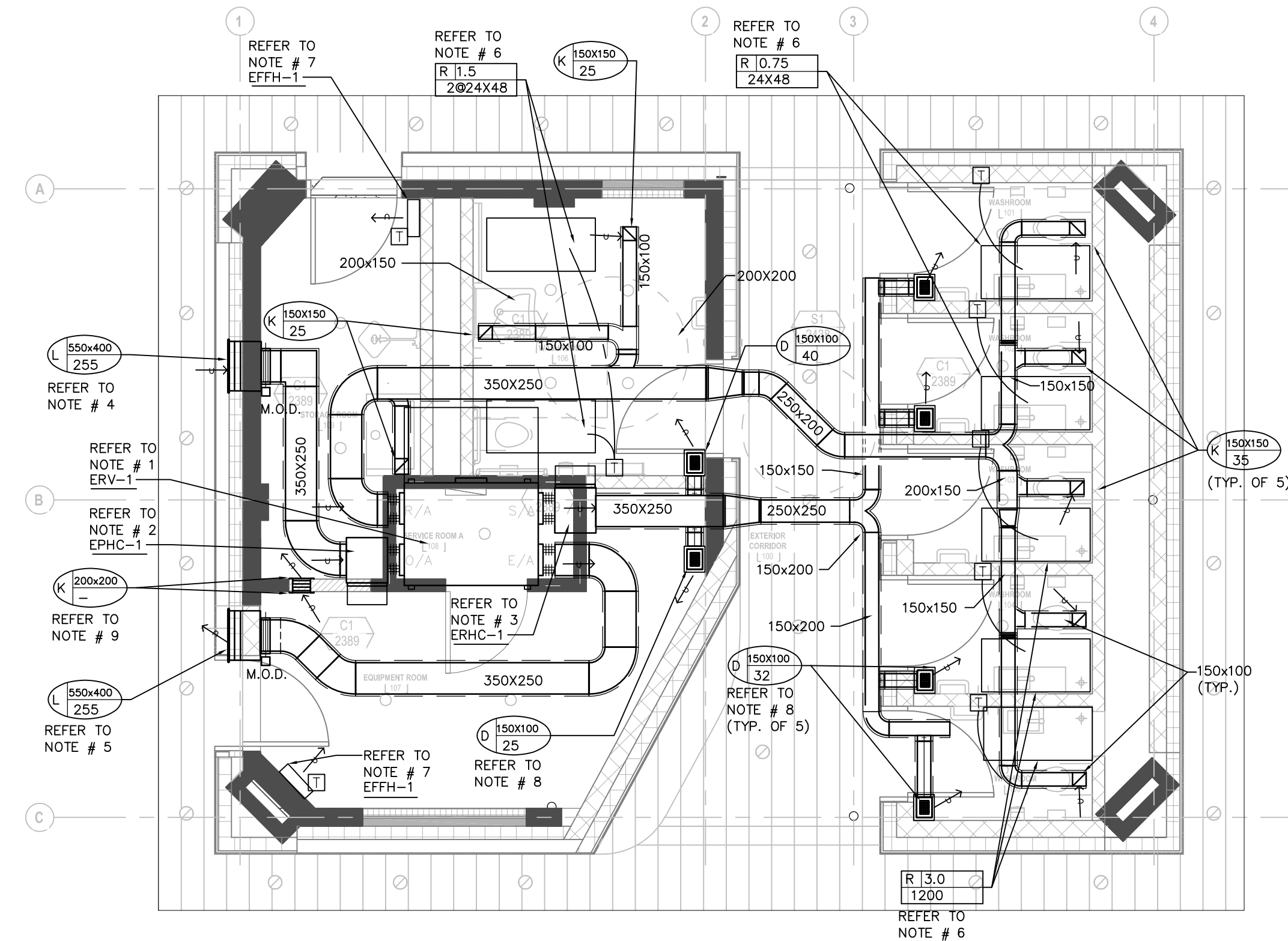
Project: 23210.001.ME  
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Scale : 1:50  
Date: 2023.04  
Sheet Title:

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

Drawing #:

**TM-1.3**





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- 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 TROUGH 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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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
3.	24/08/07	Issued for Tender

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

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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Drawn: J.B.  
Checked: W.Y.C./N.C.  
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

1 GENERAL AND SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		SECTION NUMBER
	DRAWING NUMBER		DRAWING NUMBER
	REVISION NUMBER		REVISION BUBBLE
	A AMPS		MO MOTOR OPERATED
	AD ACCESS DOOR		MOD MOTOR OPERATED DAMPER
	AFCI ARC FAULT CIRCUIT INTERRUPTER		MW MICROWAVE
	AFF ABOVE FINISHED FLOOR		N NEW
	BBH BASEBOARD HEATER		NC NORMALLY CLOSED
	BU BATTERY UNIT		NIC NOT IN CONTRACT
	C CONDUIT		NL NIGHT LIGHT
	CD CANDELA		NO NORMALLY OPEN
	CL CEILING MOUNTED CHARGING STATION		OC OVER COUNTER
	CV CONVENTIONAL STYLE DEVICE		OL OBSTRUCTION LIGHT
	D DEDICATED		P PARABOLIC LOUVRE
	DG DEDICATED GROUND		PL PATIENT LIFT
	DHWT DOMESTIC HOT WATER TANK		R RELOCATE
	DNC DEDICATED NEUTRAL + BOND		RA RANGE
	DR LAUNDRY DRYER		RC REVISE EXISTING CIRCUIT
	DW DISHWASHER		RH RANGE HOOD
	E EXISTING		RIC ROUGH IN AND CONNECT
	EF EXHAUST FAN		RO ROUGH IN ONLY
	EM EMERGENCY CIRCUIT		RR REMOVE AND REINSTALL
	EP ELECTRICAL SUITE PANEL		SC SEPARATE CIRCUIT
	ER EXISTING TO BE REMOVED		SF SYSTEM FURNITURE
	F REFRIGERATOR		SSP SLAVE SUITE ALARM PANEL
	FF FLOOR FEED		TYP TYPICAL
	FFH FORCE FLOW HEATER		UC UNDER CABINET MOUNTED
	FL FLOOR MOUNTED UPS CIRCUIT		UH UNIT HEATER
	GFCI GROUND FAULT CIRCUIT INTERRUPTER		UPS UNINTERRUPTIBLE POWER SUPPLY
	GFI GROUND FAULT INTERRUPTER		V VOLTS
	GND GROUND		W WATTS
	HK HOUSE KEEPING		WG WIRE GUARD
	HMT HARMONIC MITIGATING TRANSFORMER		WAP WIRELESS ACCESS POINT
	ICE ICE MACHINE		WF WALL FEED
	IG ISOLATED GROUND		WP WEATHERPROOF
	JB JUNCTION BOX		X EXPLOSION PROOF DEVICE + BACK BOX
	KW KILOWATTS		ZSCT ZERO SEQUENCE CURRENT TRANSFORMER
	LV 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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THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



Smith + Andersen

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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 50% REVIEW
02	2024-02-08	ISSUED FOR PERMIT/TENDER
03	2024-06-07	ISSUED FOR TENDER

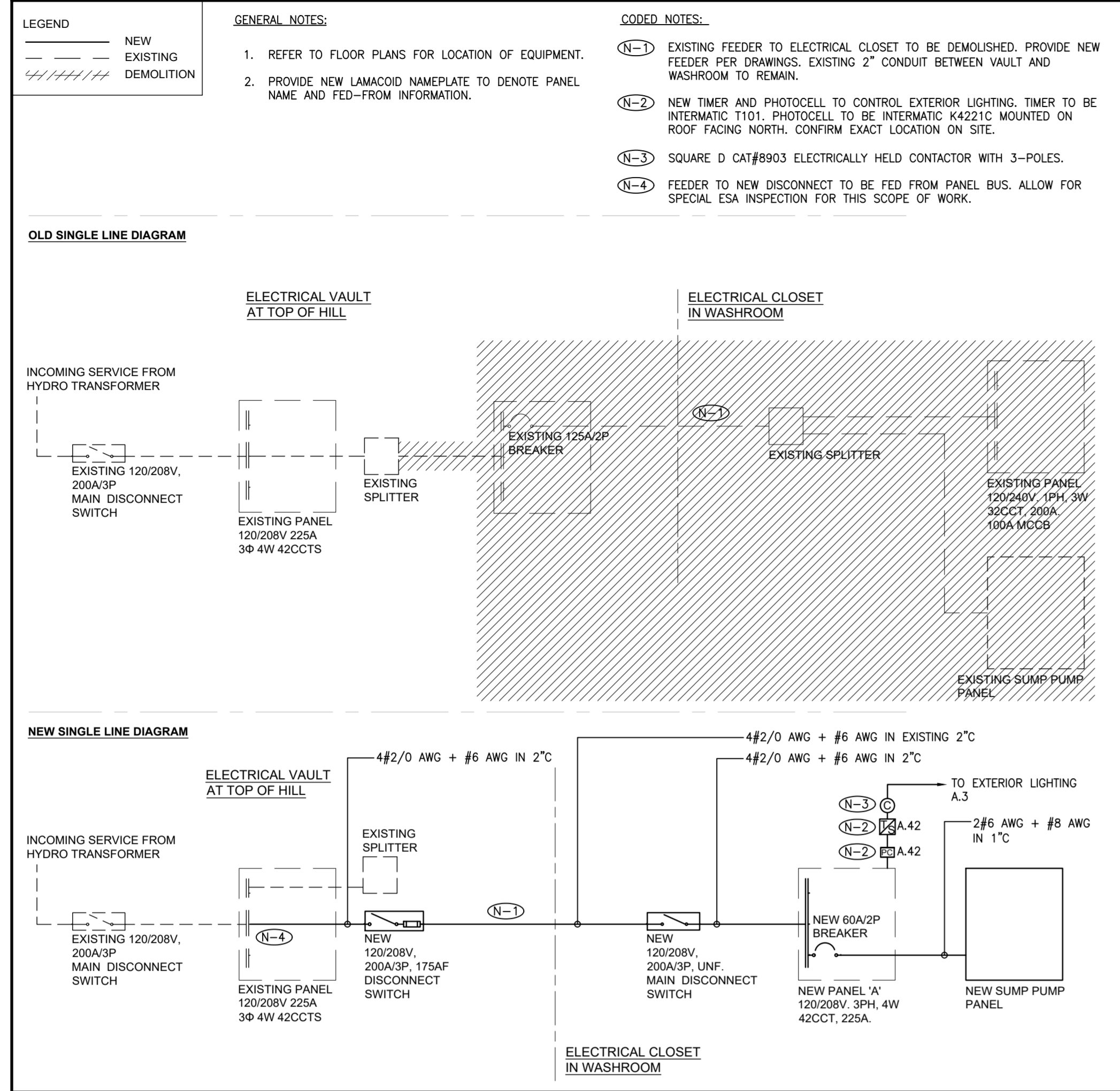
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Project: 23210.001.ME  
Drawn: J.B.  
Checked: W.Y.C./N.C.  
Scale: AS SHOWN  
Date: 2023.04  
Sheet Title:

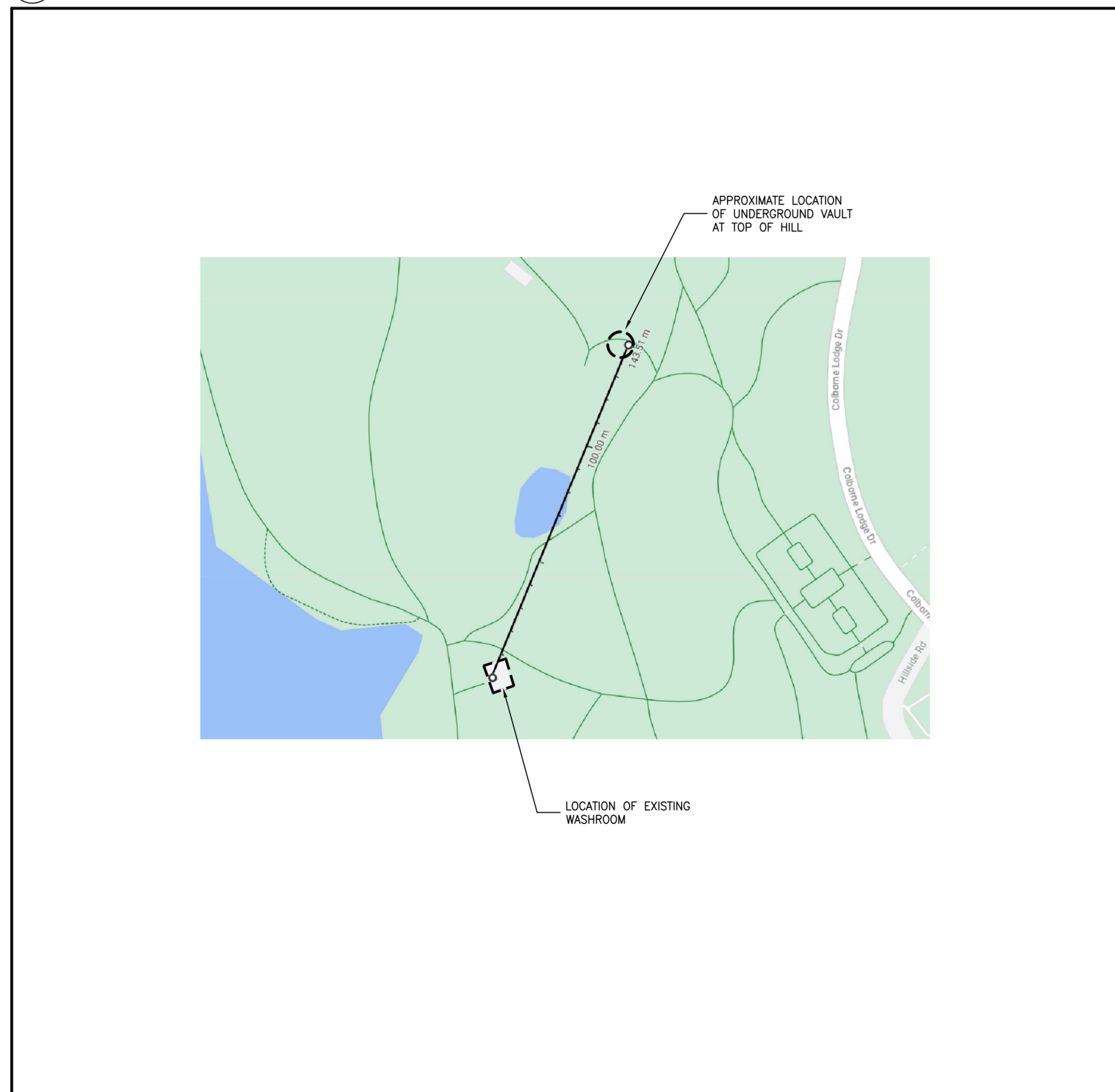
**ELECTRICAL DETAILS**

Drawing #:

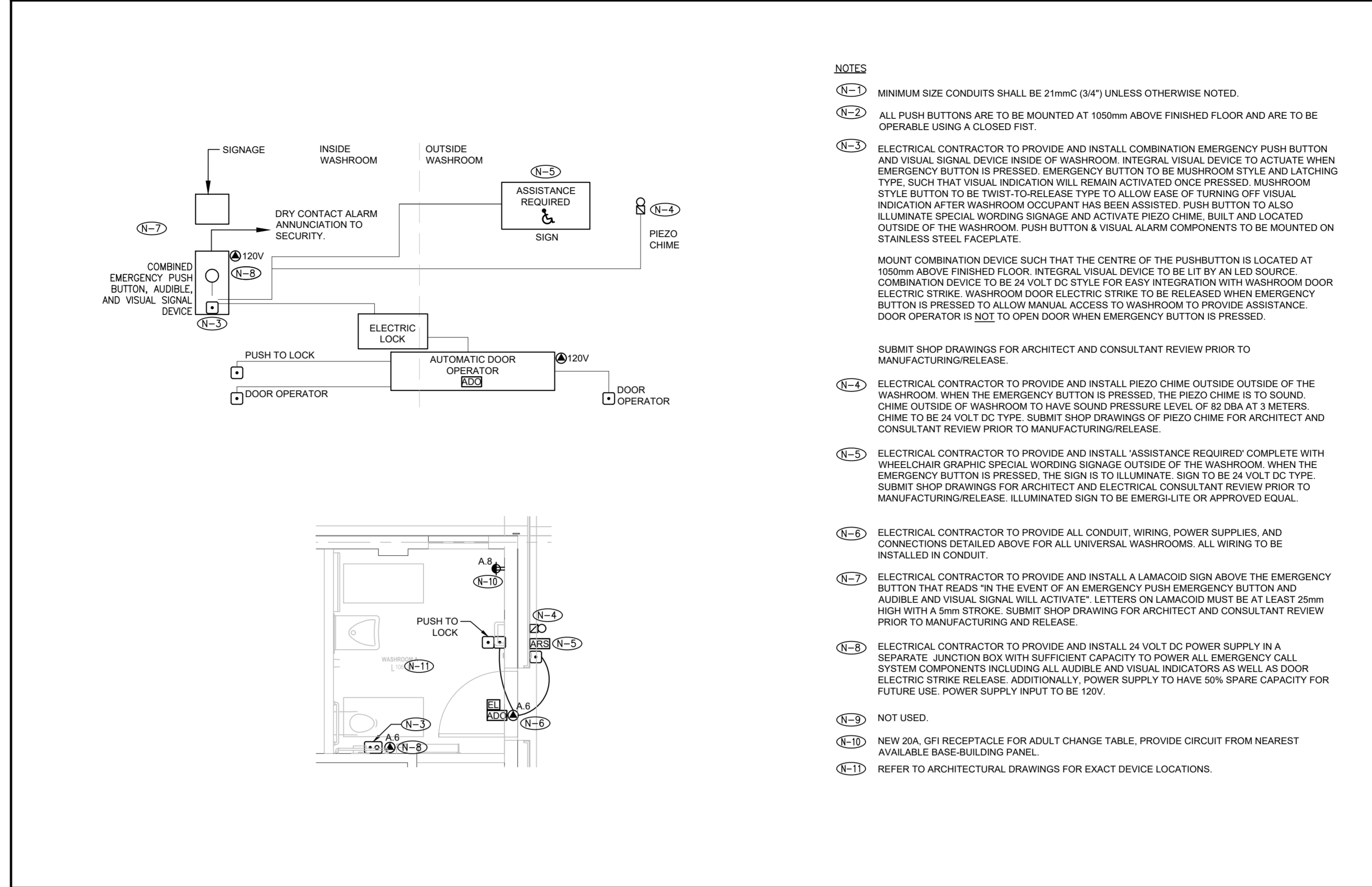
**TE-0.2**



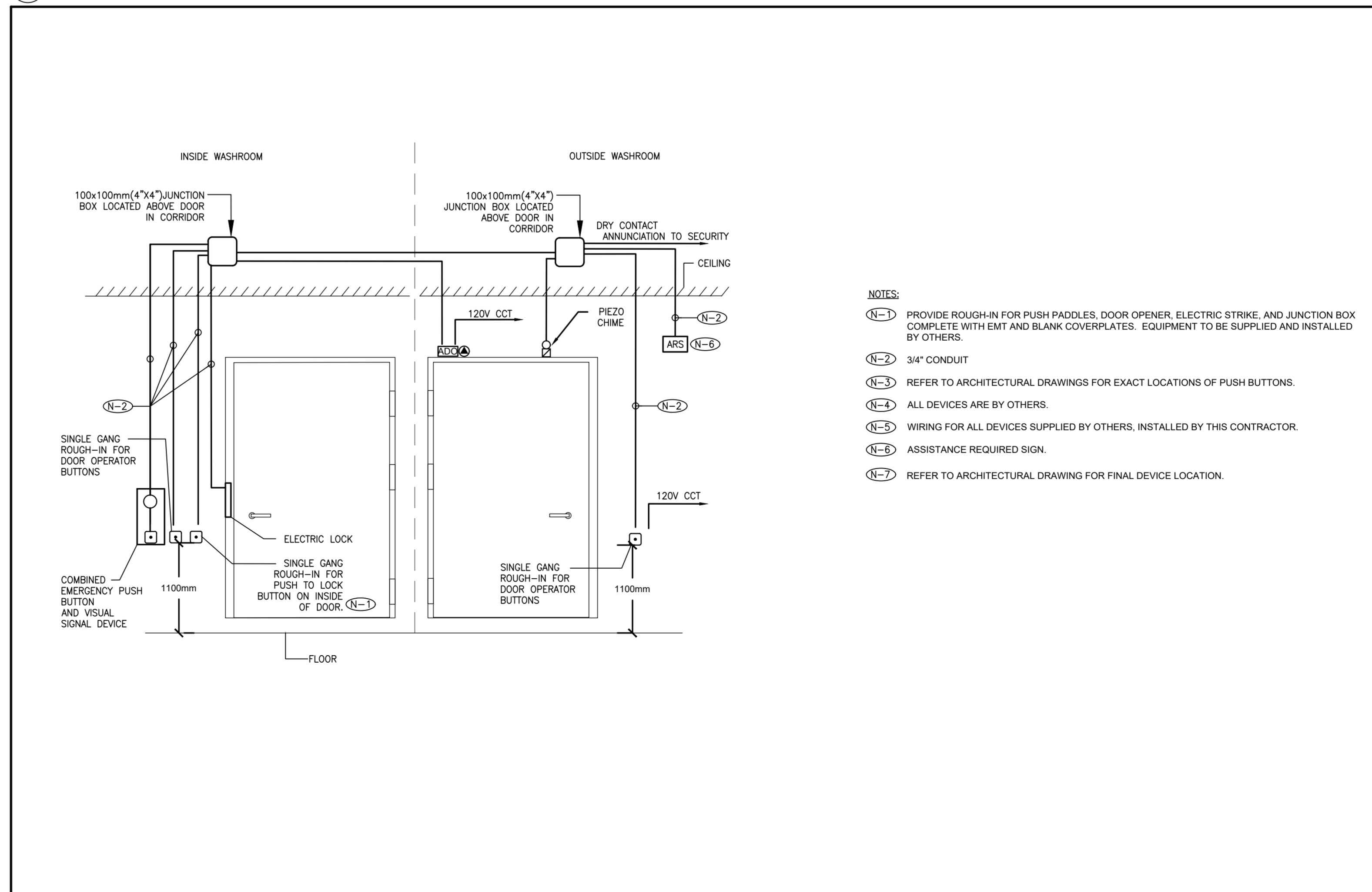
3 SINGLE LINE DIAGRAM  
TE-0.2 NTS



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



Smith + Andersen

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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 RFP REVIEW
02	2024-02-08	ISSUED FOR PERMIT/ISSUE
03	2024-06-07	ISSUED FOR TENDER

CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.  
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Project: 23210.001.ME  
Drawn: J.B.  
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Scale: N.T.S.  
Date: 2023.04  
Sheet Title:

ELECTRICAL DETAILS

Drawing #:

TE-0.3

PANEL: RP-A										LOCATION: SERVICE ROOM A				
PROJECT NAME: HIGH PARK HILLSIDE WASHROOM RENO										FED FROM: ELECTRICAL VAULT				
PROJECT # 23210.001.E.001										Smith + Andersen				
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	EPHC-1
	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	ERHC-1	
	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	ERV-1	
	SUMP PUMP	50	4056	2028	60	39	B	40	15	100	100	100	BAS	
	SUMP PUMP	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	<input type="checkbox"/>	CURRENT B [A]	58	I.C. [KA]	10
<input type="checkbox"/> ISOLATED GROUND BUS	<input type="checkbox"/>	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	HD-High Intensity Discharge Lighting Breaker	
AFCI-Arc Fault Circuit Interrupter	D.F-Demand Factor	SPD - Surge Protection Device	
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									
PROJECT NAME: LOWER HILLSIDE WASHROOM BUILDING IMPROVEMENTS									
PROJECT # 23210.001.E.001									
Smith + Andersen									
Suite 1100 - 100 Sheppard Ave. E									
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

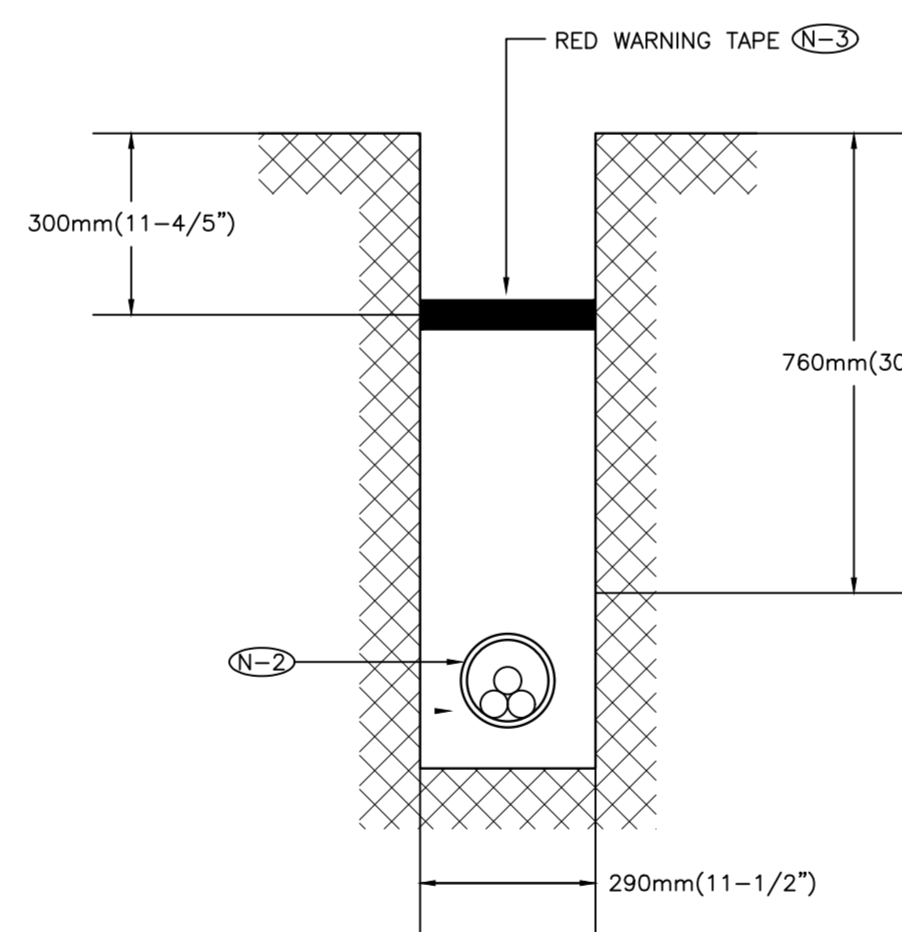
LIGHTING CONTROL SCHEDULE		
TYPE	DESCRIPTION	MANUFACTURER/CATALOGUE NO.
OS	DUAL TECH OCCUPANCY SENSOR.	WATTSTOPPER/LEGRAND CAT#: DT-355 C/W VANDAL RESISTANT WIRE GUARD

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**

NAME: WUN YAN CHOW  
TEL: 416 487 8151 x1617  
EMAIL: wunyan.chow@smithandandersen.com

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



Smith + Andersen

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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 50% REVIEW
02	2024-02-08	ISSUED FOR PERMIT TENDER
03	2024-06-07	ISSUED FOR TENDER

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DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.

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 #:

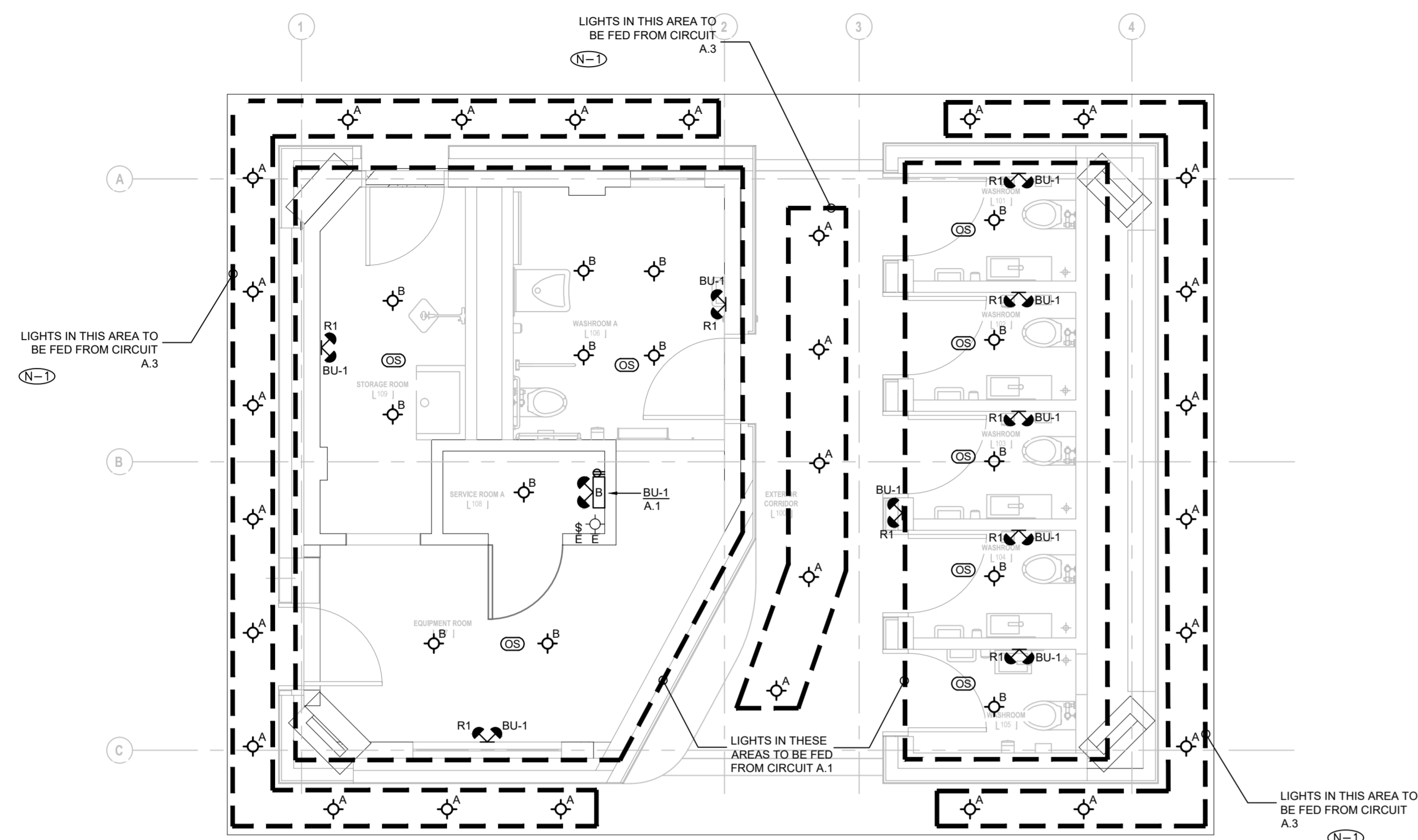
**TE-1.1**

**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 CABLING 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 CEILING 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:**

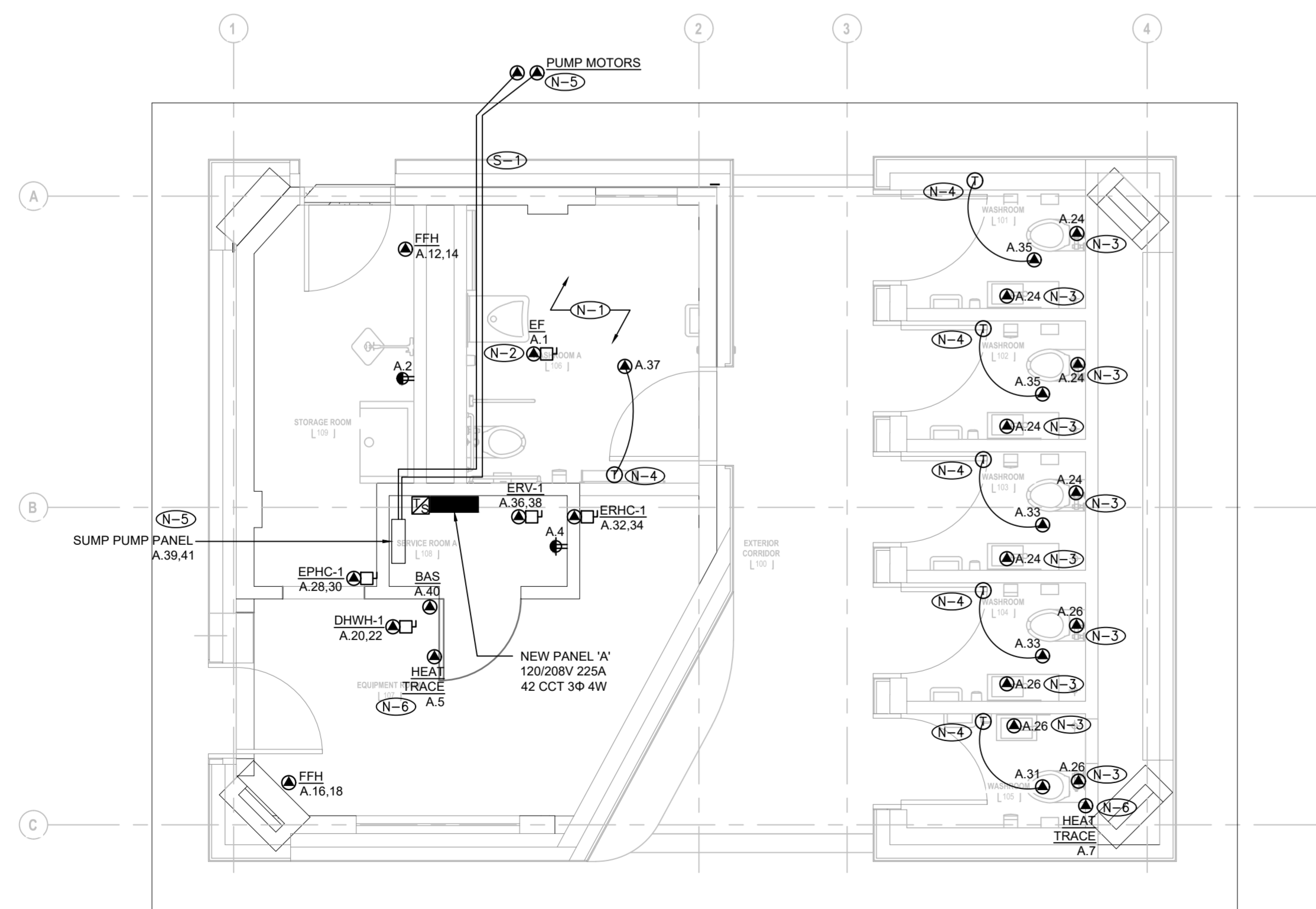
- (S-1) PROVIDE SEPARATE PRICE TO DEMOLISH EXISTING CONDUIT FROM SUMP PUMP CONTROLLER TO SUMP PIT AND TO PROVIDE NEW 2" UNDERGROUND PVC CONDUIT.

**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 CABLING 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 CEILING 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, CABLING 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.



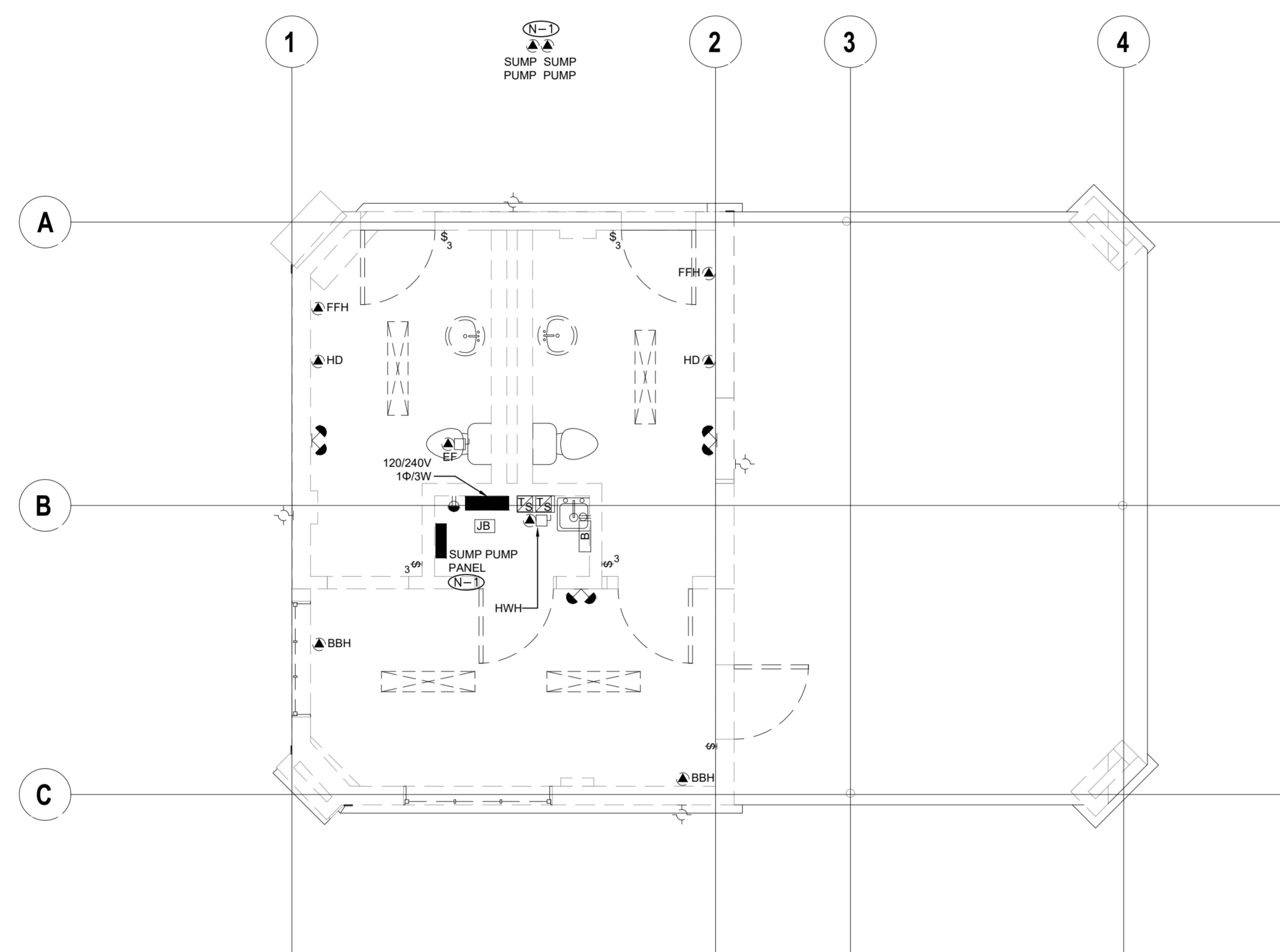
**2 POWER AND SYSTEMS LAYOUT**  
TE-1.1 1:50

**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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EMAIL: wunyan.chow@smithandandersen.com

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**GROUND FLOOR ELECTRICAL DEMOLITION LAYOUT**

Drawing #:  
**TE-1.2**