





**GENERAL NOTES:**

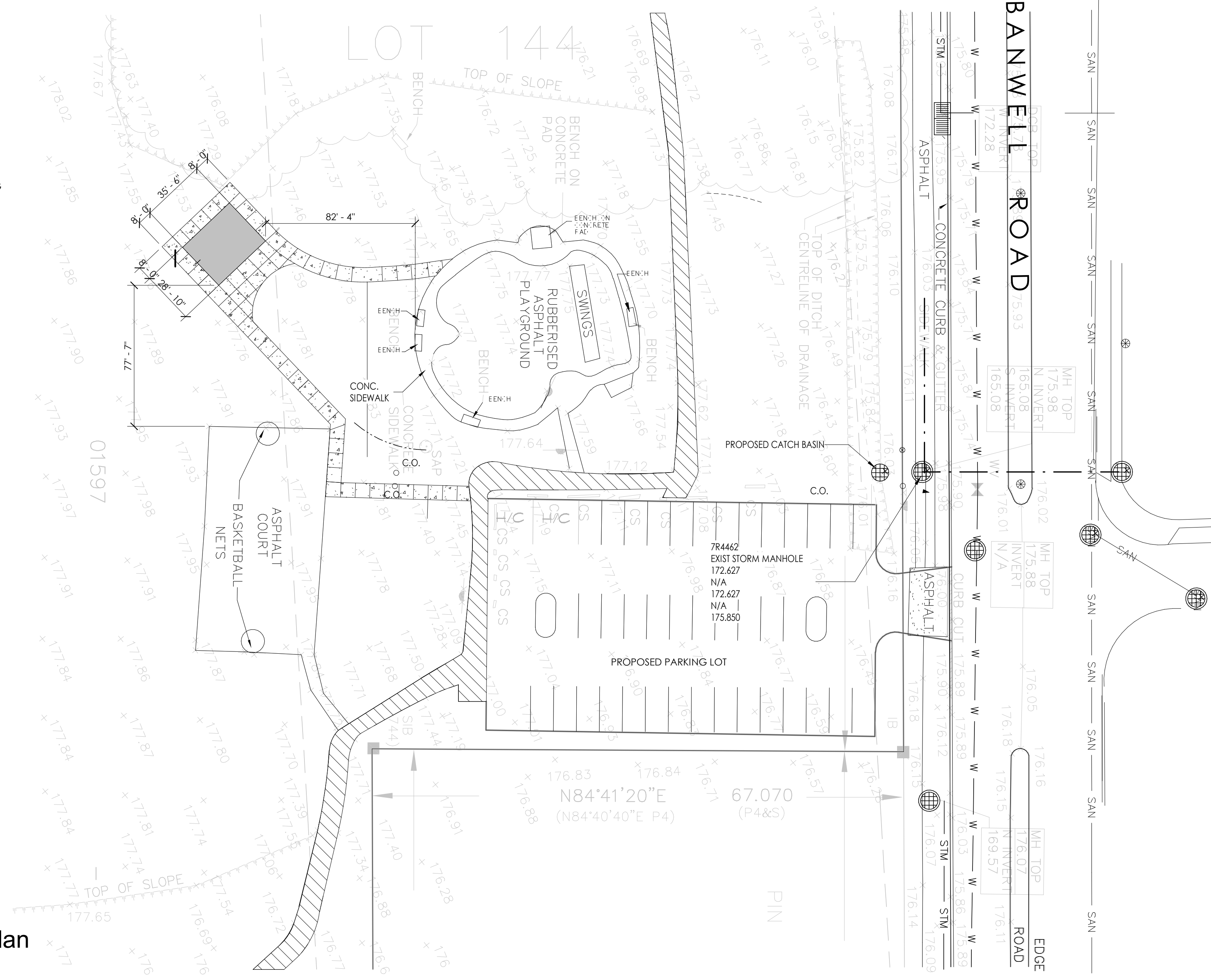
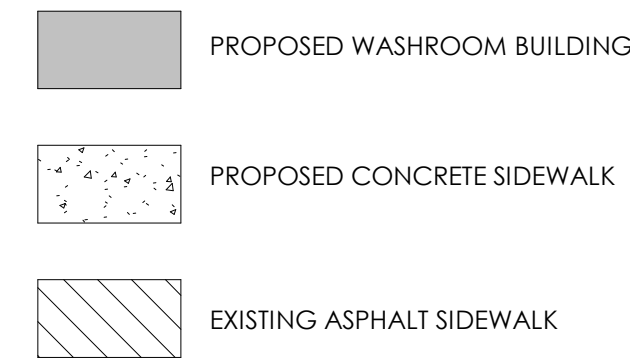
1. ALL WORK IN THIS PROJECT SHALL BE ACCORDING TO THE CITY OF WINDSOR STANDARDS.
2. REFER TO SITE GRADING & SERVING SITE PLANS FOR ALL EXISTING & NEW LOCATIONS OF SERVICES AND ENTRY OF SERVICES INTO THE BUILDING ENVELOPE. ALL MECHANICAL & ELECTRICAL INFORMATION INDICATED ON ARCHITECTURAL SITE DWG IS FOR GENERAL REFERENCE AND CO-ORDINATION ONLY.
3. REFER TO SITE GRADING PLAN FOR PROPOSED FINAL FINISH GRADE ELEVATIONS AND DRAINAGE SLOPES.
4. **EXISTING TREES TO REMAIN TO BE PROTECTED DURING CONSTRUCTION. REFER TO LANDSCAPE SPECIFICATIONS AND DRAWINGS.**
5. ALL WORK INVOLVED IN THE CONSTRUCTION, RELOCATION, REPAIR OF MUNICIPAL SERVICES FOR THE PROJECT SHALL BE TO THE SATISFACTION OF THE CITY OF WINDSOR.
6. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING: BUILDING PERMIT, ROAD CUT PERMITS, APPROACH APPROVAL PERMITS, COMMITTEE OF ADJUSTMENTS, SEWER AND WATER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS (IF REQUIRED).
7. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE ENGINEERING SERVICES DEPARTMENT, CITY OF WINDSOR. FOR THE PURPOSES OF VEHICULAR ACCESS TO THE PROPERTY, (ENTRANCE PERMIT), AND SERVING EXCAVATIONS WITHIN THE MUNICIPAL ROAD ALLOWANCE. (ROAD OCCUPANCY PERMIT).
8. PRIOR TO THE COMMENCEMENT OF ANY WORKS ON THIS SITE, HOARDING SHALL BE INSTALLED AROUND THE PERIMETER AS PER GOOD CONSTRUCTION AND SITE SAFETY PRACTICE OR AS DETERMINED BY THE MANAGER, DEVELOPMENT ENGINEERING, UNTIL SUCH TIME AS OTHERWISE DIRECTED BY THE MANAGER, DEVELOPMENT ENGINEERING.
9. SITE SILTATION CONTROL MEASURES/FENCING SHALL BE ERRECTED FROM COMMENCEMENT OF THE PROJECT THROUGHOUT THE DURATION OF THE PROJECT AS PER OPSD 219.110.

**SEDIMENT CONTROL NOTES:**

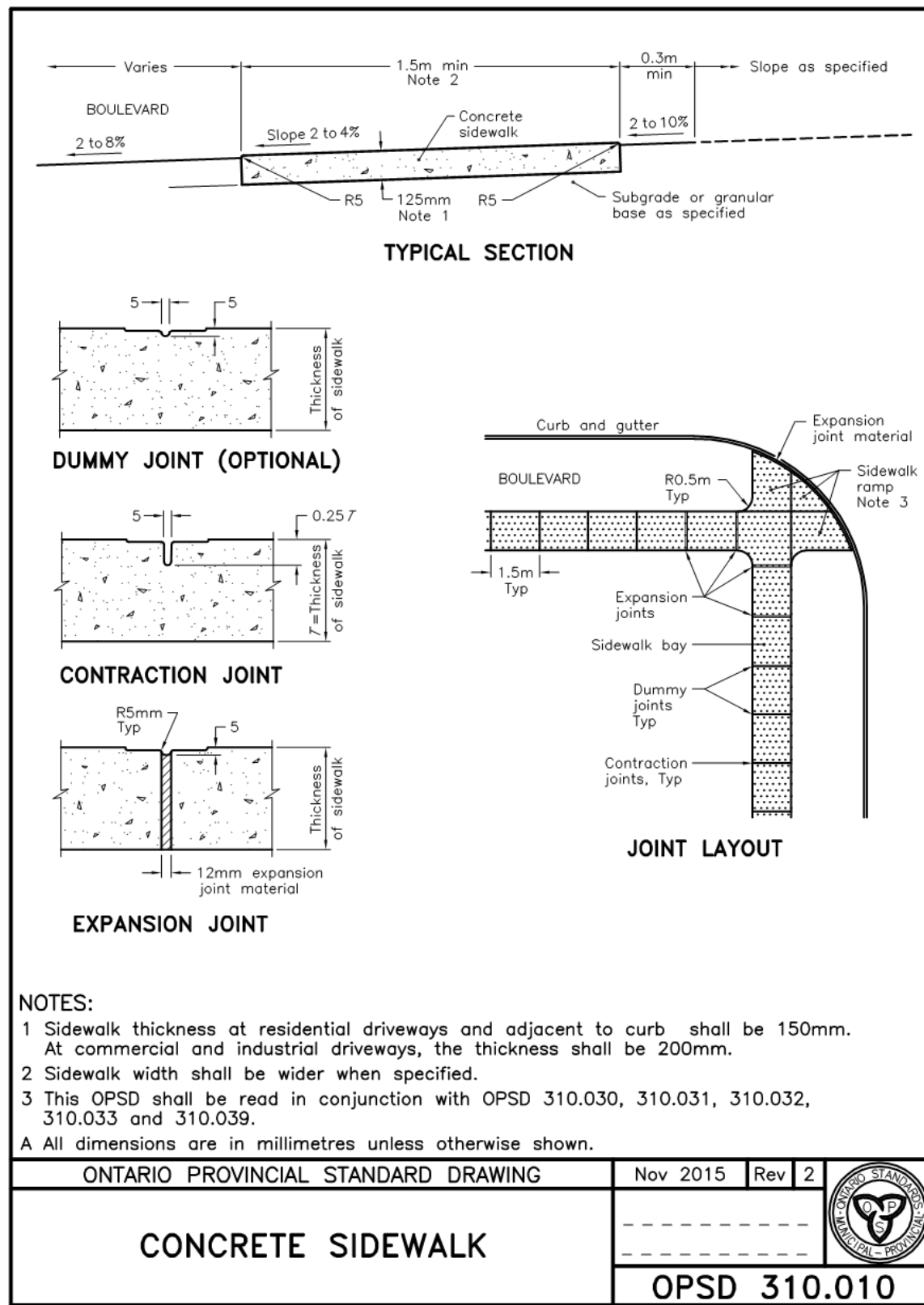
1. PROTECT ALL EXPOSED SURFACES AND CONTROL RUNOFF DURING CONSTRUCTION.
2. ALL EROSION CONTROL MEASURES ARE TO BE IN PLACE BEFORE STARTING CONSTRUCTION AND REMAIN IN PLACE UNTIL RESTORATION IS COMPLETE.
3. MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION.
4. ALL COLLECTED SEDIMENT MUST BE DISPOSED OFF AT AN APPROVED LOCATION.
5. MINIMIZE THE AREA DISTURBED DURING CONSTRUCTION.
6. ALL DEWATERING MUST BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN.
7. PROTECT ALL CATCH BASINS, MAINTENANCE HOLES AND PIPE ENDS FROM SEDIMENT INTRUSION WITH GEOTEXTILE (TERRAFIX 270R OR EQUAL).
8. KEEP ALL SUMPS CLEAN DURING CONSTRUCTION.
9. PREVENT WIND-BLOWN DUST.
10. STRAW BALES TO BE USED IN LOCALIZED AREAS AS SHOWN AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION FOR WORKS WHICH ARE IN, OR ADJACENT TO FLOODLINES, FILL LINES AND HAZARDOUS SLOPES.
11. STRAW BALES TO BE TERMINATED USING ROUNDING BALES TO CONTAIN AND FILTER RUNOFF.
12. OBTAIN APPROVAL FROM UTRCA (UPPER THAMES RIVER CONSERVATION AUTHORITY) PRIOR TO CONSTRUCTION FOR WORKS WHICH ARE IN, OR ADJACENT TO FLOODLINES, FILL LINES AND HAZARDOUS SLOPES.
13. ALL SILT FENCING AND DETAILS ARE AT THE MINIMUM TO BE CONSTRUCTED IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.
14. ALL OF THE ABOVE NOTES AND ANY SEDIMENT AND EROSION CONTROL MEASURES ARE AT THE MINIMUM TO BE IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.

**GRADING AND DRAINAGE:**

1. APPROVED FILL MATERIAL SHALL BE COMPACTED TO 98% SPMD MIN. TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. UNLESS OTHERWISE NOTED. ALL SERVICES AND APPURTENANCES SHALL BE PLACED ON UNDISTURBED GROUND AND BACKFILLED WITH APPROVED MATERIAL.
2. BACKFILL FOR ALL SERVICES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH OPSD 802.10.
3. ALL GRASSED AND PAVED SURFACES SHALL BE GRADED PER CITY OF WINDSOR SPECIFICATIONS.
4. GRASSED AREAS: 2.0% MIN. FOR PLAY FIELDS, 1.5% MIN FOR ALL OTHER AREAS; 5% MAX.



1 Architectural Site Plan  
1" = 40'-0"



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No.	Description	Date
1	ISSUED FOR TENDER	JAN X, 2022

WASHROOM BUILDING  
ELIZABETH K PARK

Architectural Site Plan

Project number 2104  
 Date JULY 2021  
 Drawn by M. M.  
 Checked by M. B.

A 102

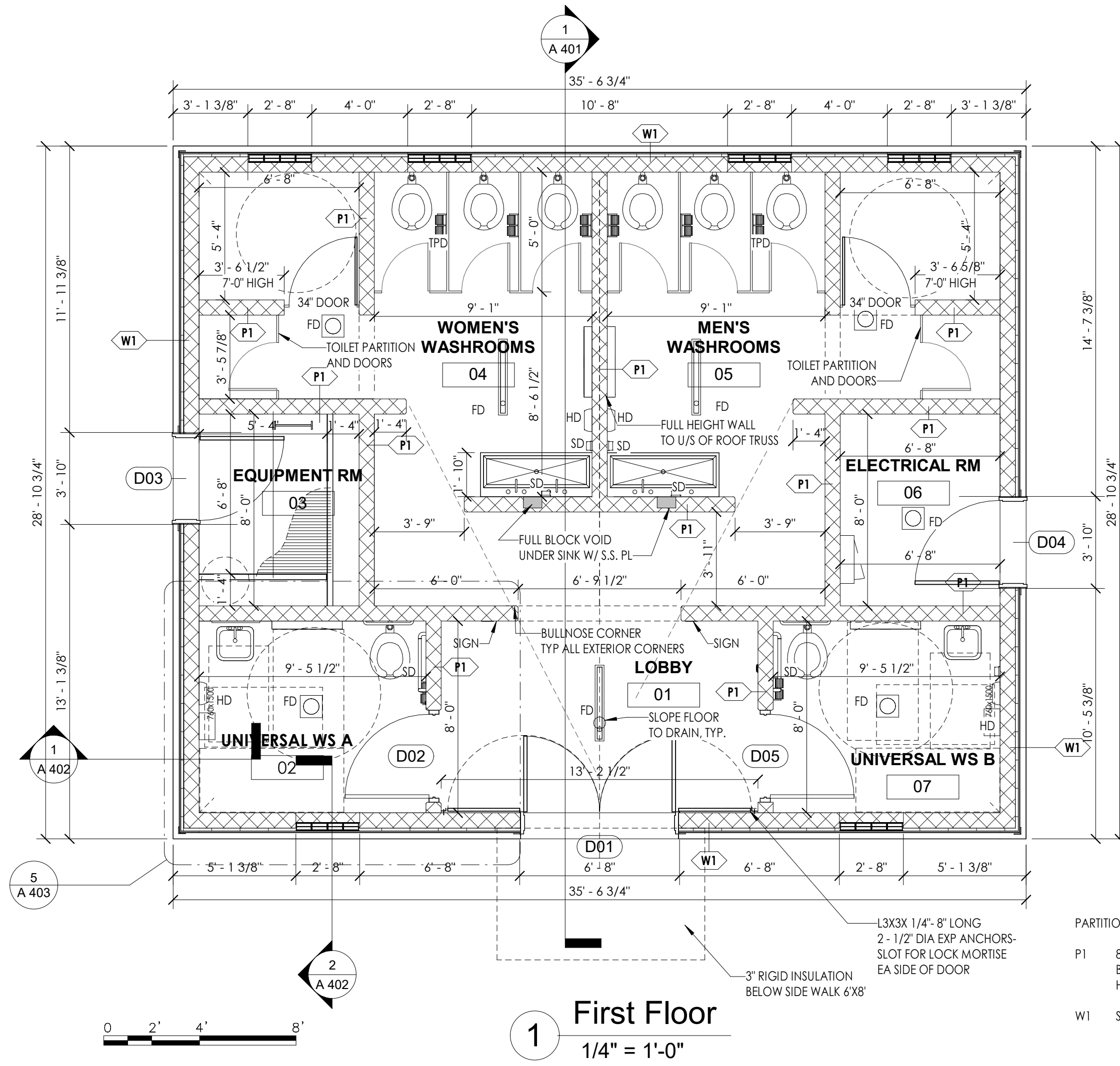
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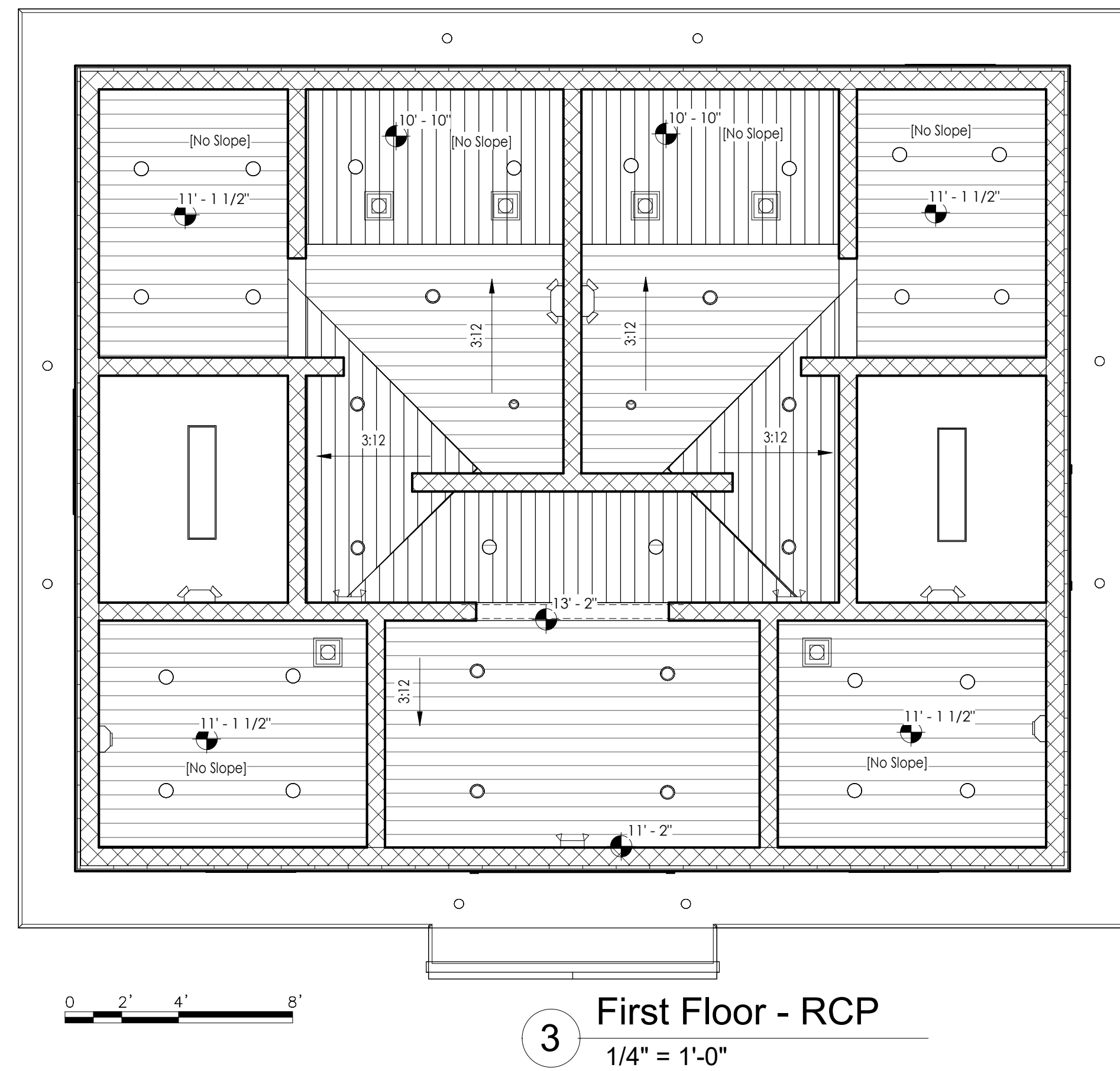
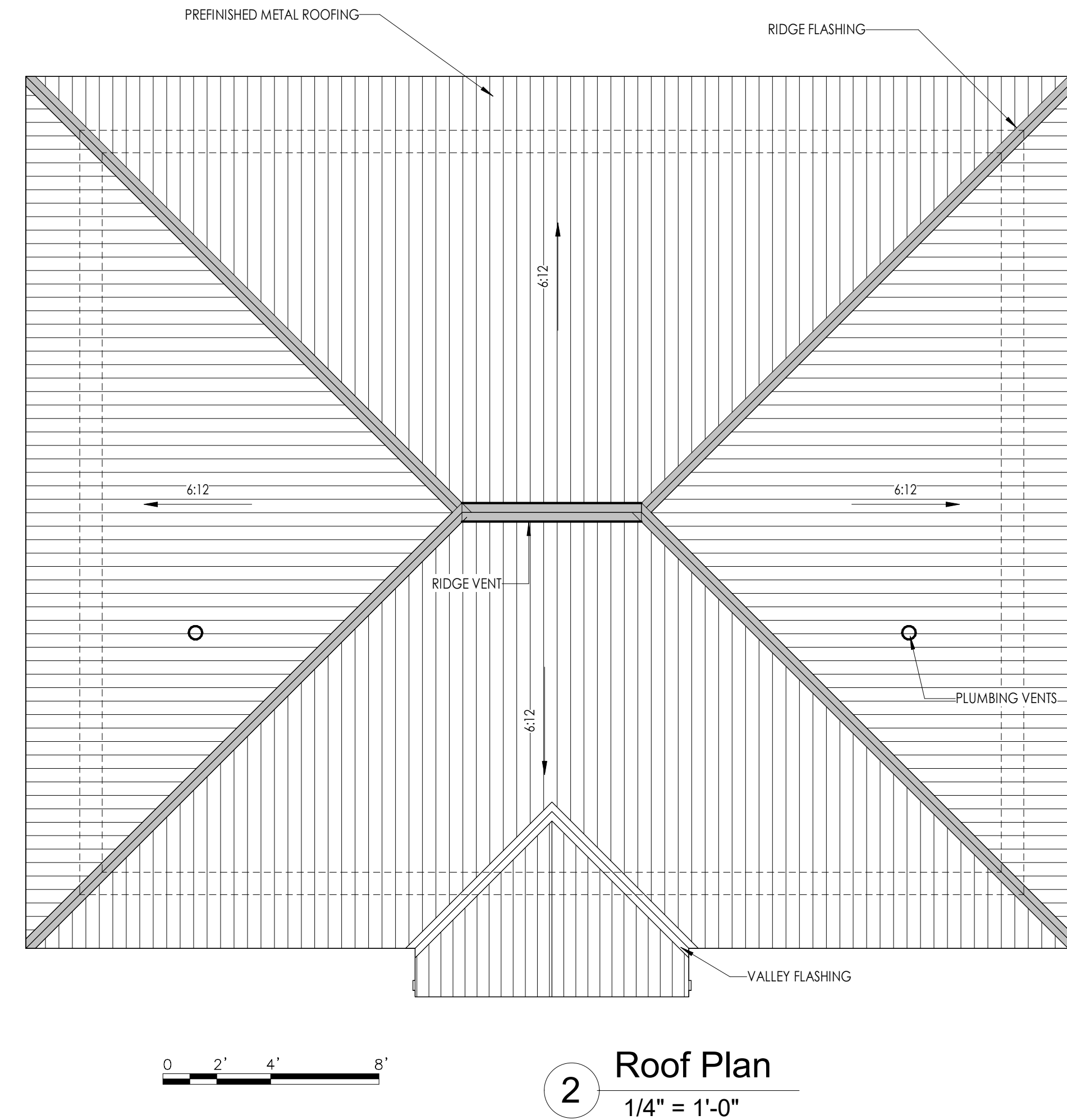
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**PARTITIONS TYPE:**

- P1 8" CONCRETE MASONRY UNITS WITH BULLNOSE EXTERIOR CORNERS HEIGHT: 8' ABOVE TRUSS BOTTOM CORD U.O.N
- W1 SEE TYPICAL WALL SECTION



**LEGEND:**

- POT LIGHT ON OCCUPANCY SENSOR
- EXHAUST FAN OR REGISTER
- VINYL CEILING
- CEILING ELEVATION
- EMERGENCY LIGHT
- EMERGENCY LIGHT / EXIT COMBO

**CEILING GENERAL NOTES:**

1. COORDINATE CEILING HEIGHT WITH OTHER DISCIPLINES.
2. CEILING HEIGHTS ARE MEASURED FROM FINISHED FLOOR LINE, U.O.N.
3. REFER TO REFLECTED CEILING PLANS FOR CEILING LAYOUTS AND FIXTURE LOCATIONS & COORDINATE WITH M.E.P. IN CASE OF CONFLICT. RCPs TAKE PRECEDENCE. SEE ELECTRICAL FOR SPECIFIC LIGHT FIXTURE TYPE DESIGNATION, PAINT ALL SURFACES, PIPES AND EQUIPMENT IN EXPOSED CEILINGS - COLOUR: WHITE, U.O.N.
4. LOCATE M.E.P. COMPONENTS REQUIRING ACCESS AT ACCESSIBLE CEILING AREAS TO THE GREATEST EXTENT POSSIBLE, WHERE CEILINGS ARE INACCESSIBLE, PROVIDE ACCESS PANELS AS REQUIRED.
5. SOME M.E.P. COMPONENTS, ELECTRICAL DEVICES AND PLUMBING DEVICES MAY NOT BE SHOWN, REFER TO M.E.P. DRAWINGS.
6. INSTALL FIRE RATED ACCESS PANELS/ DOORS AT FIRE RATED CEILINGS. COORDINATE W/ M.E.P. DRAWINGS.
7. PROVIDE VERTICAL CEMENT BOARD AT ALL CEILING TRANSITIONS, U.O.N.
8. RETURN AIR PLENUMS THROUGHOUT; ALL MATERIALS SHALL BE NONCOMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NO MORE THAN 50.

**GENERAL NOTES:**

1. THIS PROJECT AND ALL WORK ASSOCIATED WITH PROJECT SHALL CONFORM TO THE LATEST REVISIONS OF ONTARIO BUILDING CODE.
2. ALL WORK IN THIS PROJECT TO COMPLY WITH THE CITY OF WINDSOR STANDARDS.
3. THE DESIGN ADEQUACY AND SAFETY OF REACTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. DURING DEMOLITION AND/ OR CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER OR ARCHITECT.
4. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OF PLANS FOR BID PURPOSES PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT.
5. ALL WORK NOTED "N.I.C." OR "NOT IN CONTRACT" IS TO BE ACCOMPLISHED BY A CONTRACTOR OTHER THAN THE GENERAL CONTRACTOR AND IS NOT TO BE PART OF THE CONSTRUCTION AGREEMENT. THE GENERAL CONTRACTOR SHALL COORDINATE WITH "OTHER" CONTRACTORS PER REQUIREMENTS ESTABLISHED BY OWNER AND TENANT.
6. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR EXAMINING CONTRACT DOCUMENTS, FIELD CONDITIONS AND CONFIRMING THAT WORK CAN BE PERFORMED AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ITEMS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH WORK IN QUESTION OR RELATED WORK.
7. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE TO COORDINATE WITH ALL SUBCONTRACTORS PER REQUIREMENTS ESTABLISHED BY OWNER, TENANT, OR BOTH.
8. THE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, OTHER DRAWINGS AND JOB SPECIFICATIONS ARE SUPPLEMENTARY TO ARCHITECTURAL CONSTRUCTION DRAWINGS.
9. THE INTENT OF DRAWINGS AND SPECIFICATIONS IS TO INCLUDE ALL LABOUR, MATERIALS AND SERVICES NECESSARY FOR THE COMPLETION OF ALL WORK SHOWN, DESCRIBED, OR REASONABLY IMPLIED, BUT NOT LIMITED TO THAT EXPLICITLY INDICATED IN THE CONTRACT DOCUMENTS.
10. INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENTS IN STRICT ACCORDANCE WITH THE MANUFACTURERS, UNLESS NOTED OTHERWISE.
11. ANY WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DRAWINGS, WITHOUT THE PRIOR APPROVAL OF THE OWNER AND THE ARCHITECT, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
12. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY SPECIFIED MATERIALS OR EQUIPMENT WHICH ARE EITHER UNAVAILABLE OR THAT WILL CAUSE A DELAY IN THE CONSTRUCTION COMPLETION SCHEDULE, THE CONTRACTOR SHALL SUBMIT CONFIRMATIONS OF DELIVERY DATES FOR ORDERS OF MATERIALS AND EQUIPMENTS HAVING LONG LEAD TIMES.

No.	Description	Date
1	ISSUED FOR TENDER	JAN X, 2022

**WASHROOM BUILDING ELIZABETH K PARK**

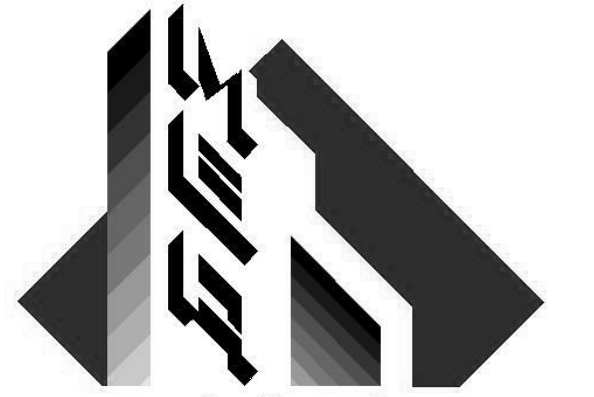
**First Floor, Roof Plan & RCP**

Project number	2104
Date	JULY 2021
Drawn by	A,B
Checked by	M,B

**A 202**

Scale 1/4" = 1'-0"

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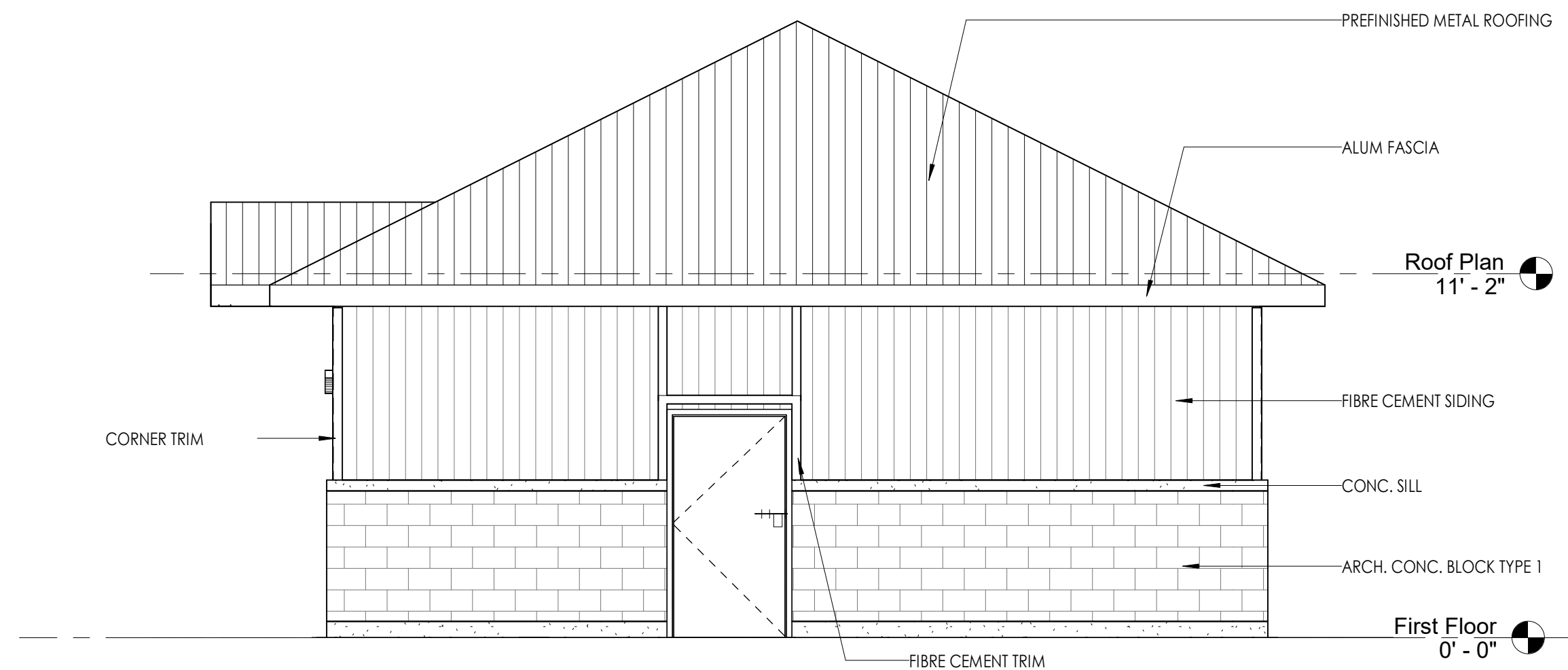
### WASHROOM BUILDING ELIZABETH K PARK

#### Elevations

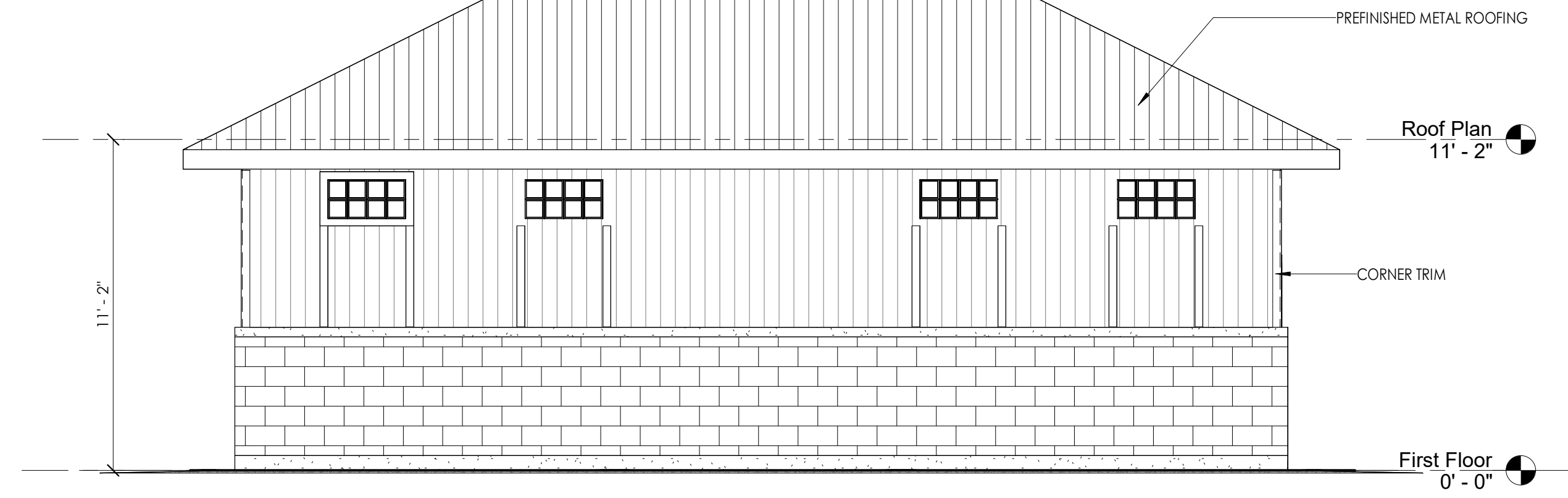
Project number	2104
Date	JULY 2021
Drawn by	A. B.
Checked by	M. B.

**A 301**

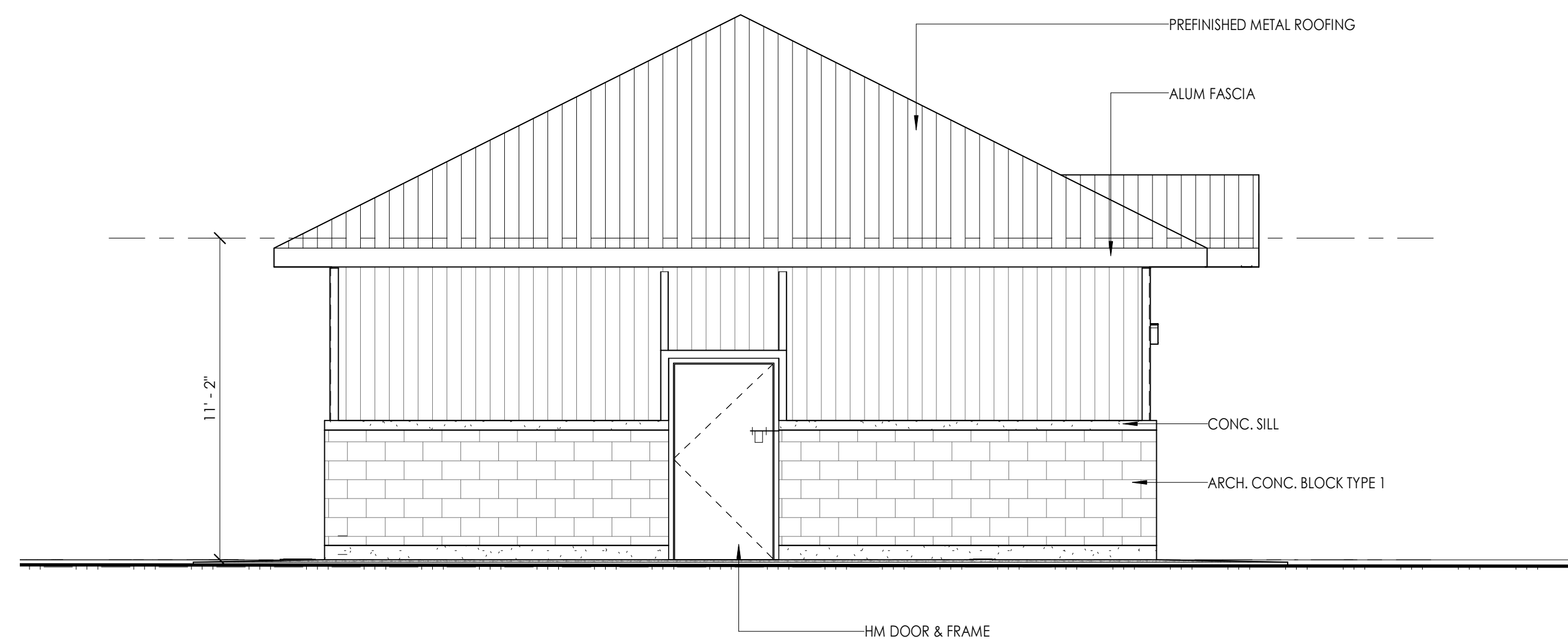
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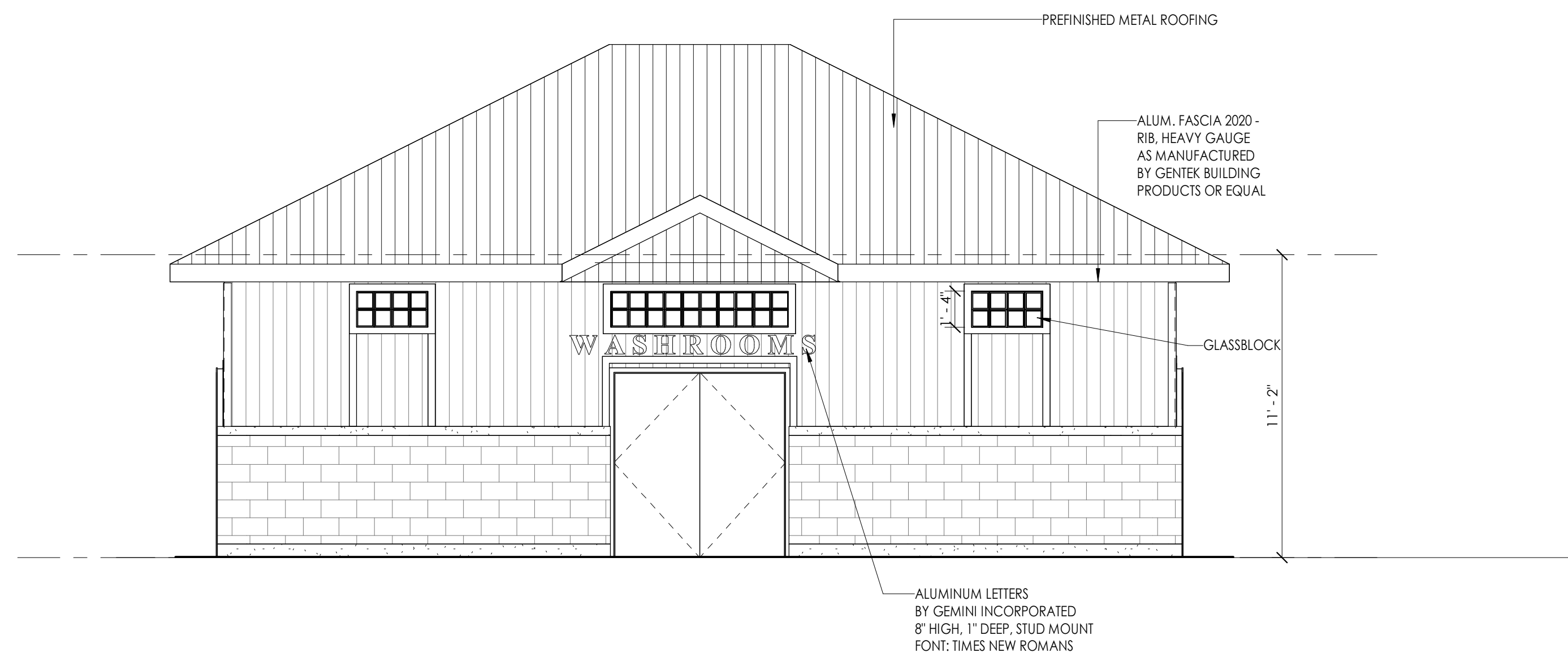
**1 East Elevation**  
1/4" = 1'-0"



**2 North Elevation**  
1/4" = 1'-0"



**3 West Elevation**  
1/4" = 1'-0"



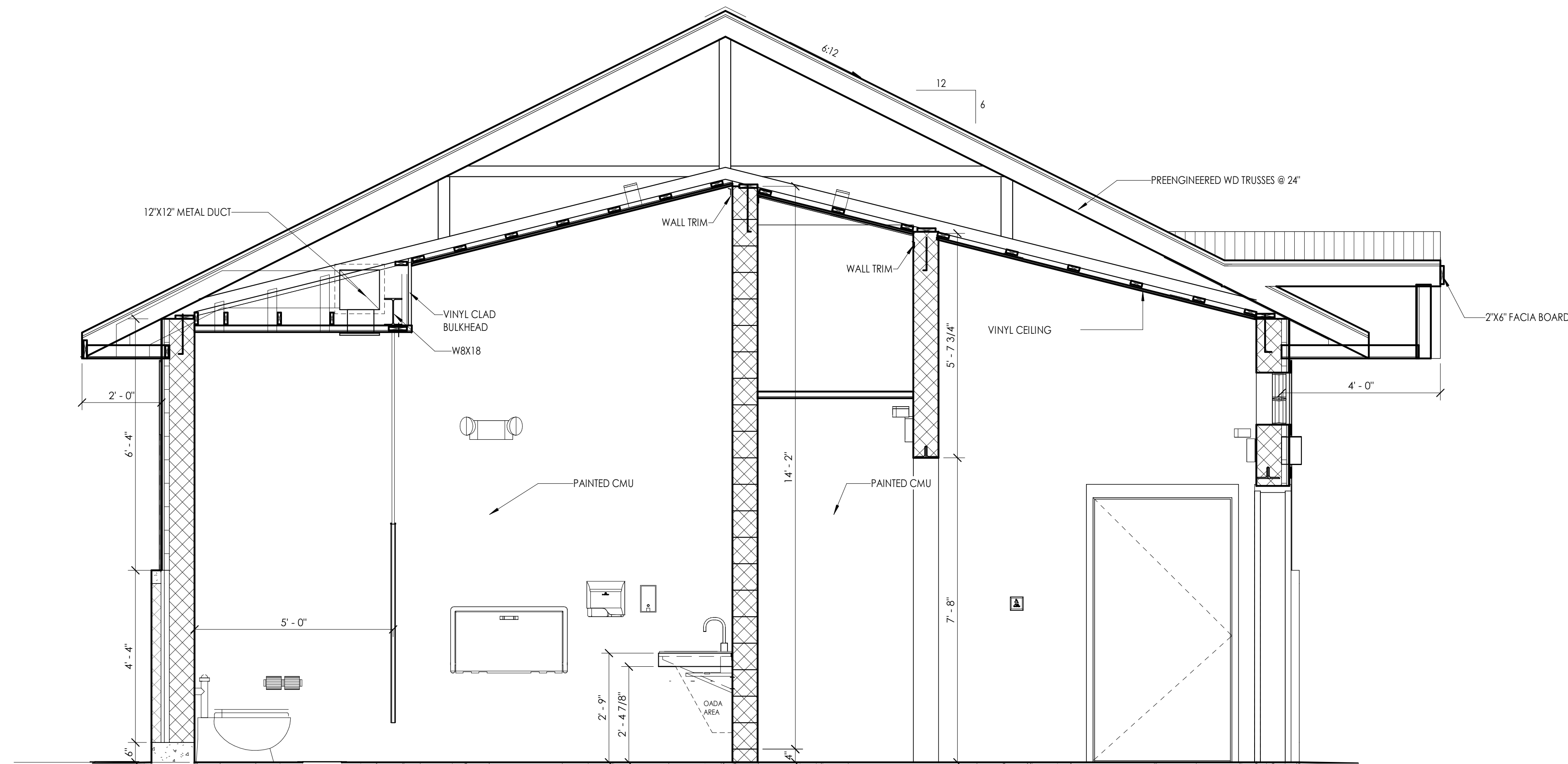
**4 South Elevation**  
1/4" = 1'-0"



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GENERAL NOTES:  
 1- RUN ALL CONDUITS, PIPES AND SERVICES INSIDE WALLS  
 2- RUN ALL DUCTWORK ABOVE CEILINGS

1 Cross Section  
 1/2" = 1'-0"

No.	Description	Date
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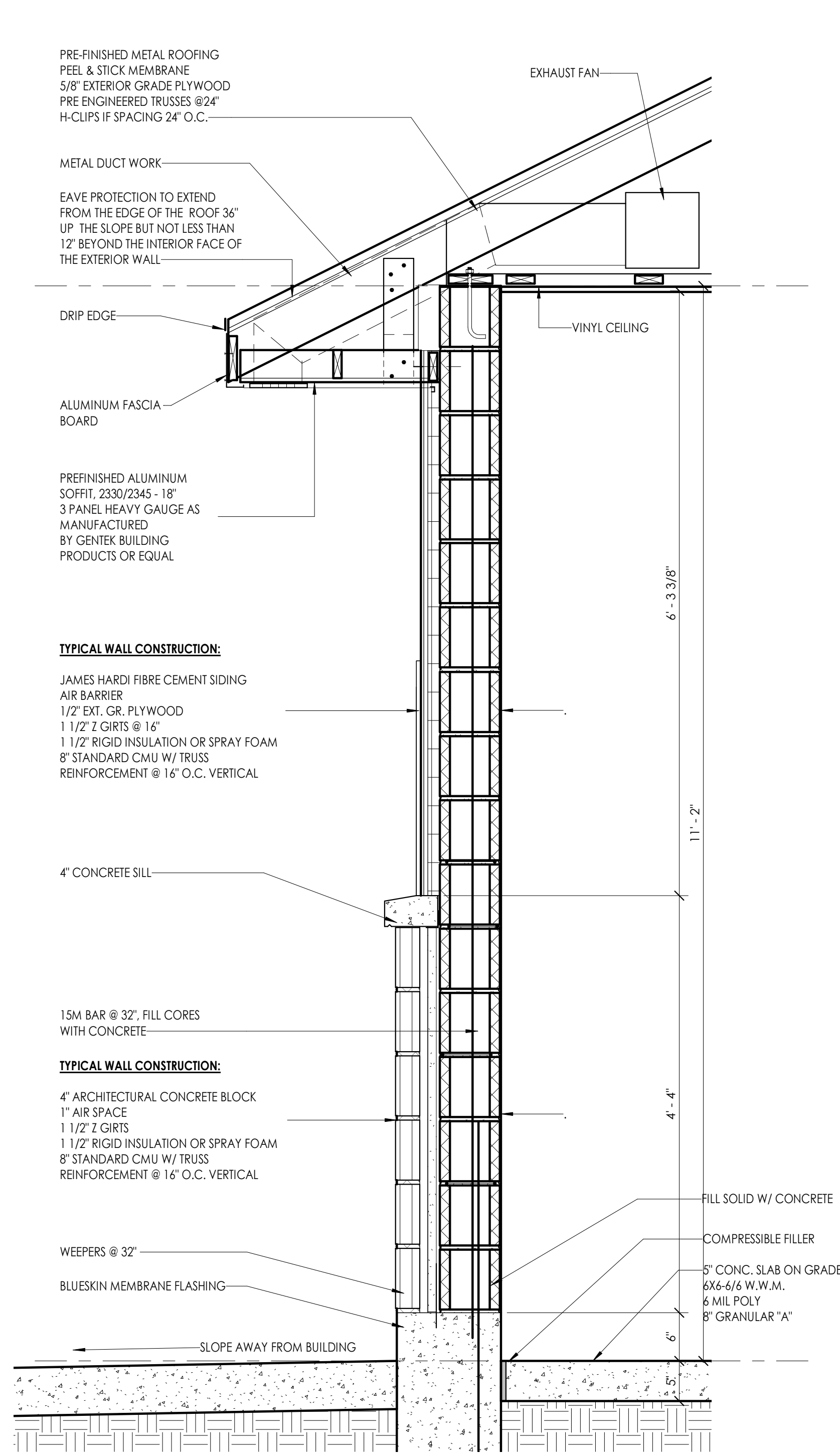
WASHROOM BUILDING  
 ELIZABETH K PARK

Cross Section

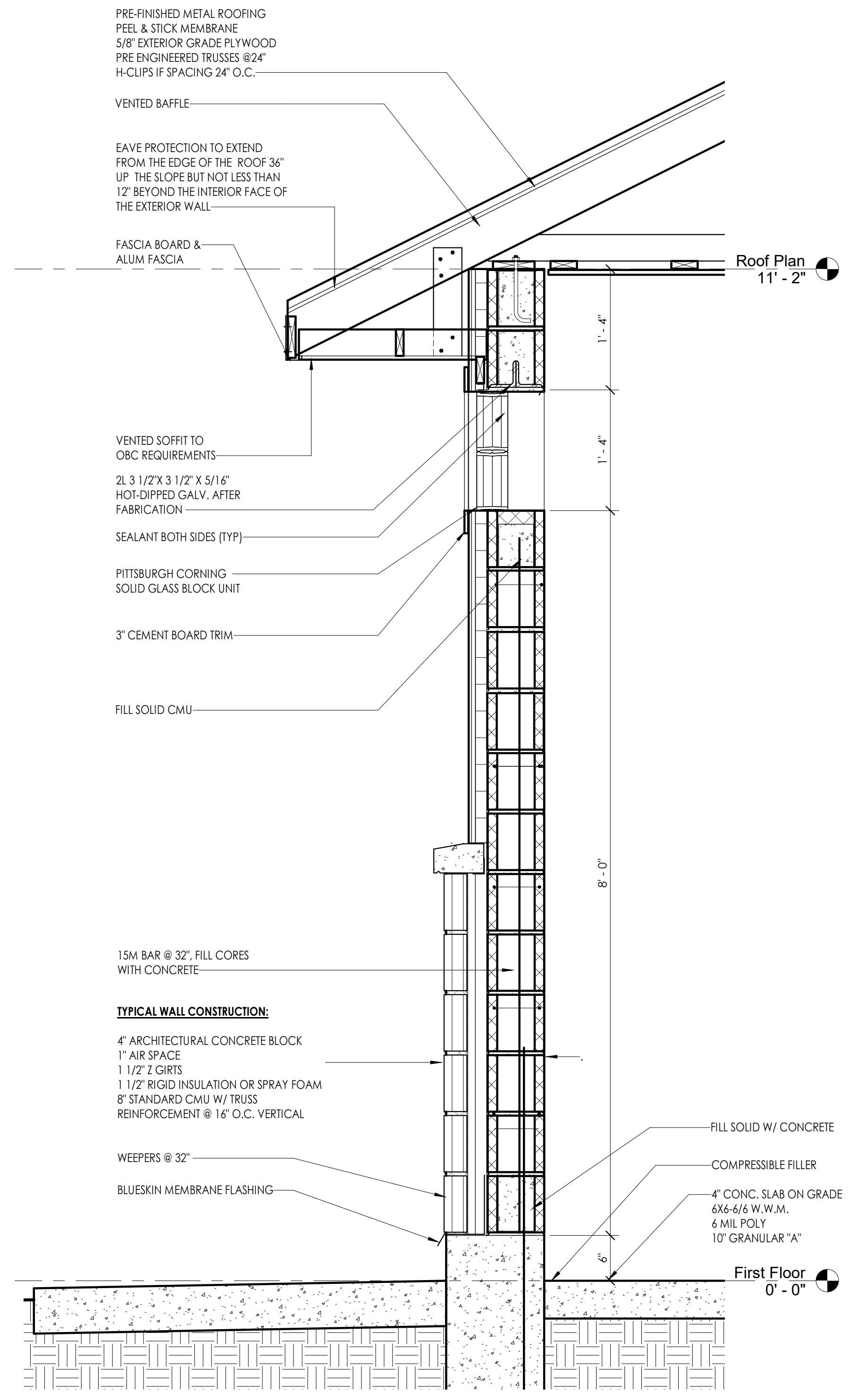
Project number	2104
Date	JULY 2021
Drawn by	A. B.
Checked by	M. B.

A 401

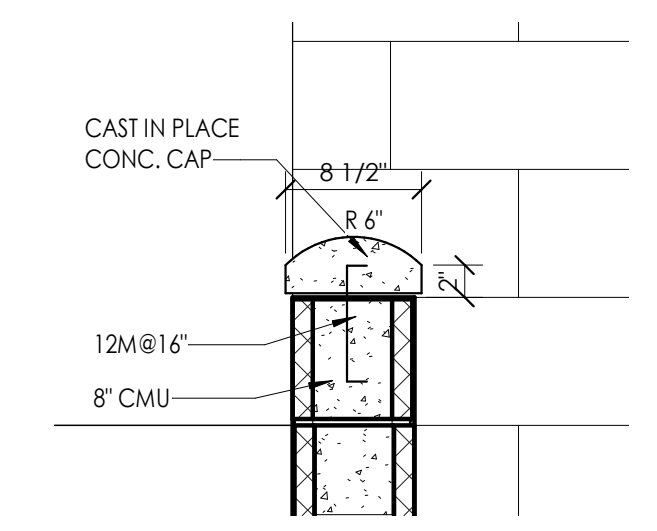
Scale 1/2" = 1'-0"



1 Section - 1  
1" = 1'-0"



2 Section - 2  
1" = 1'-0"



3 Cap Detail  
1" = 1'-0"



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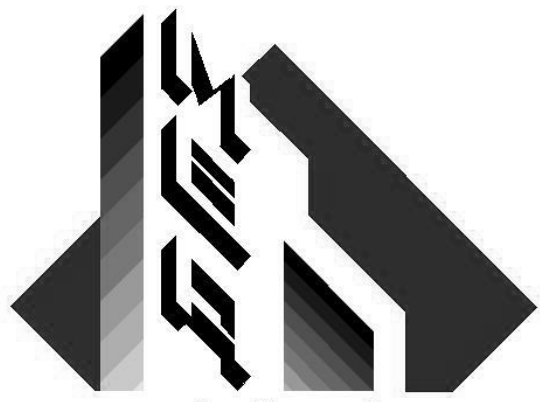
WASHROOM BUILDING  
ELIZABETH K PARK

Wall Sections

Project number	2104
Date	JULY 2021
Drawn by	A. B.
Checked by	M. B.

A 402

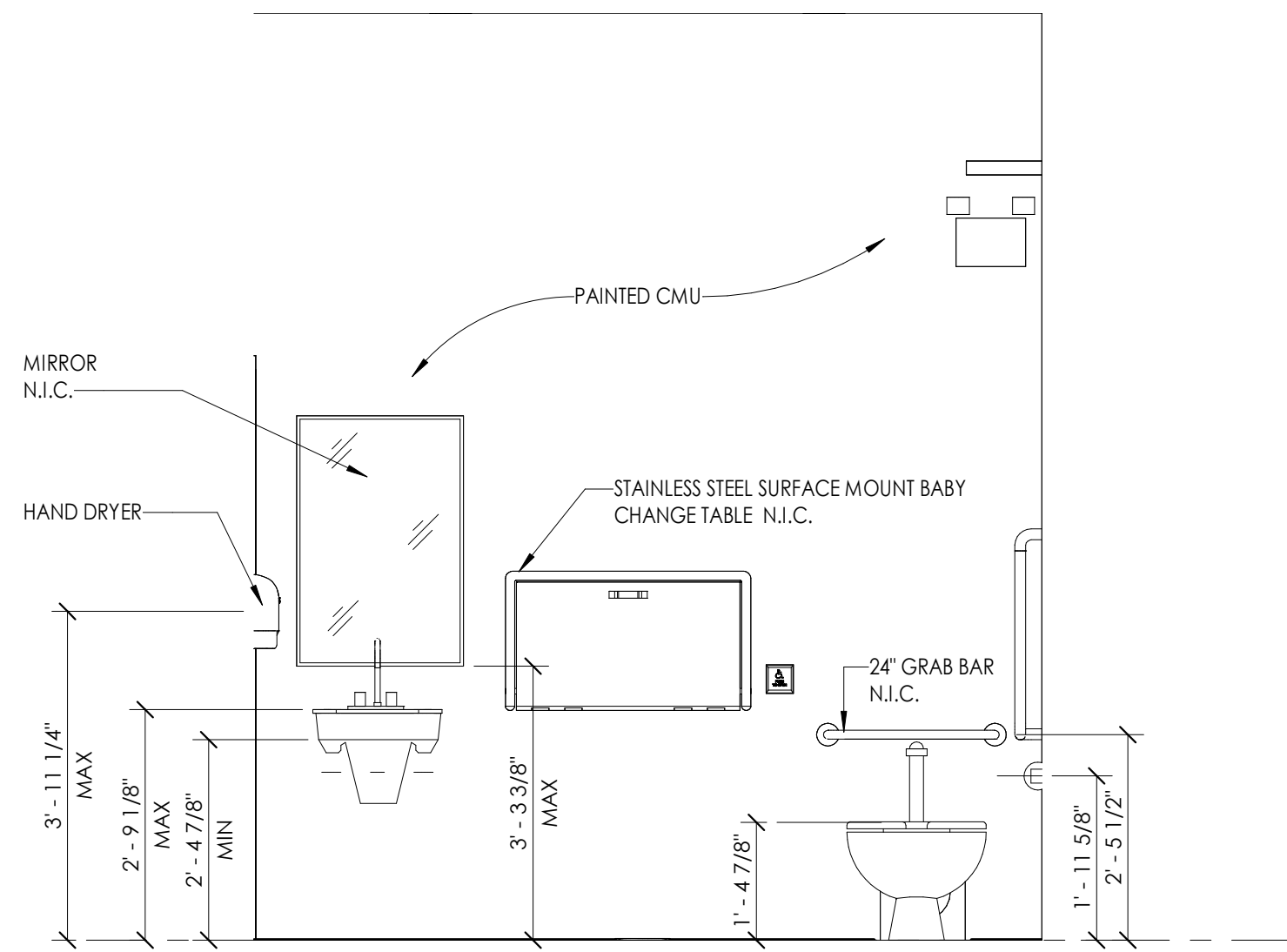
Scale 1" = 1'-0"



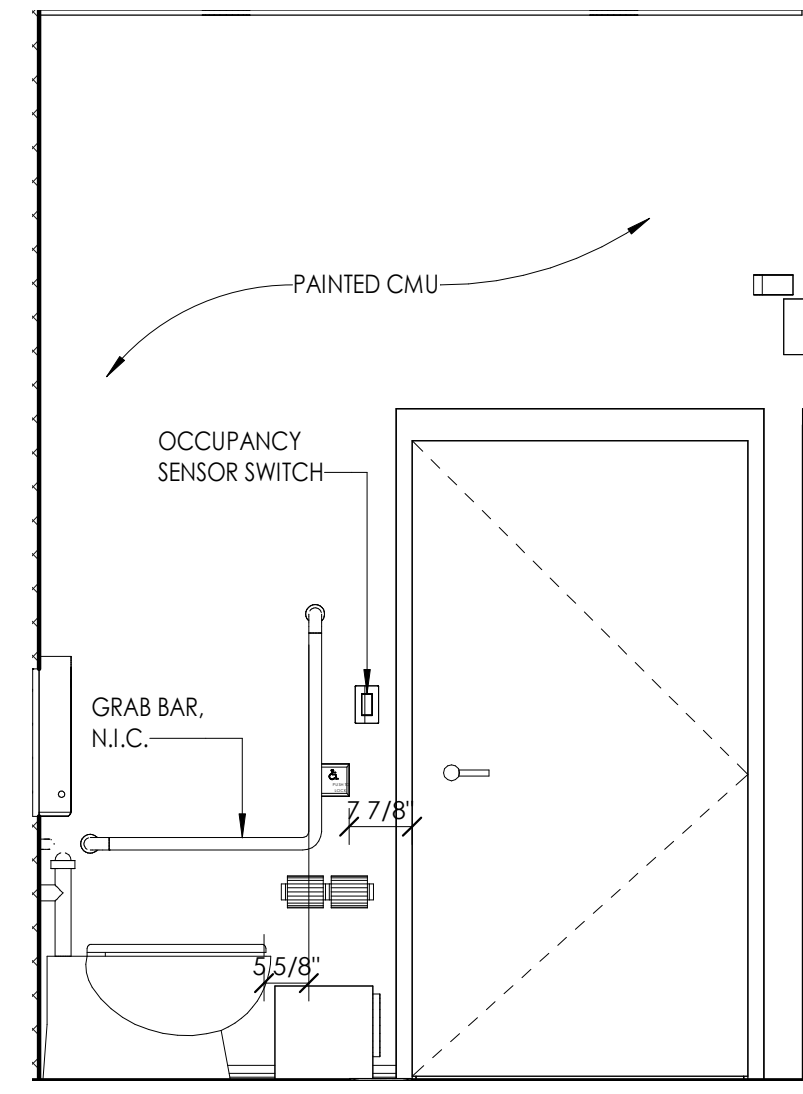
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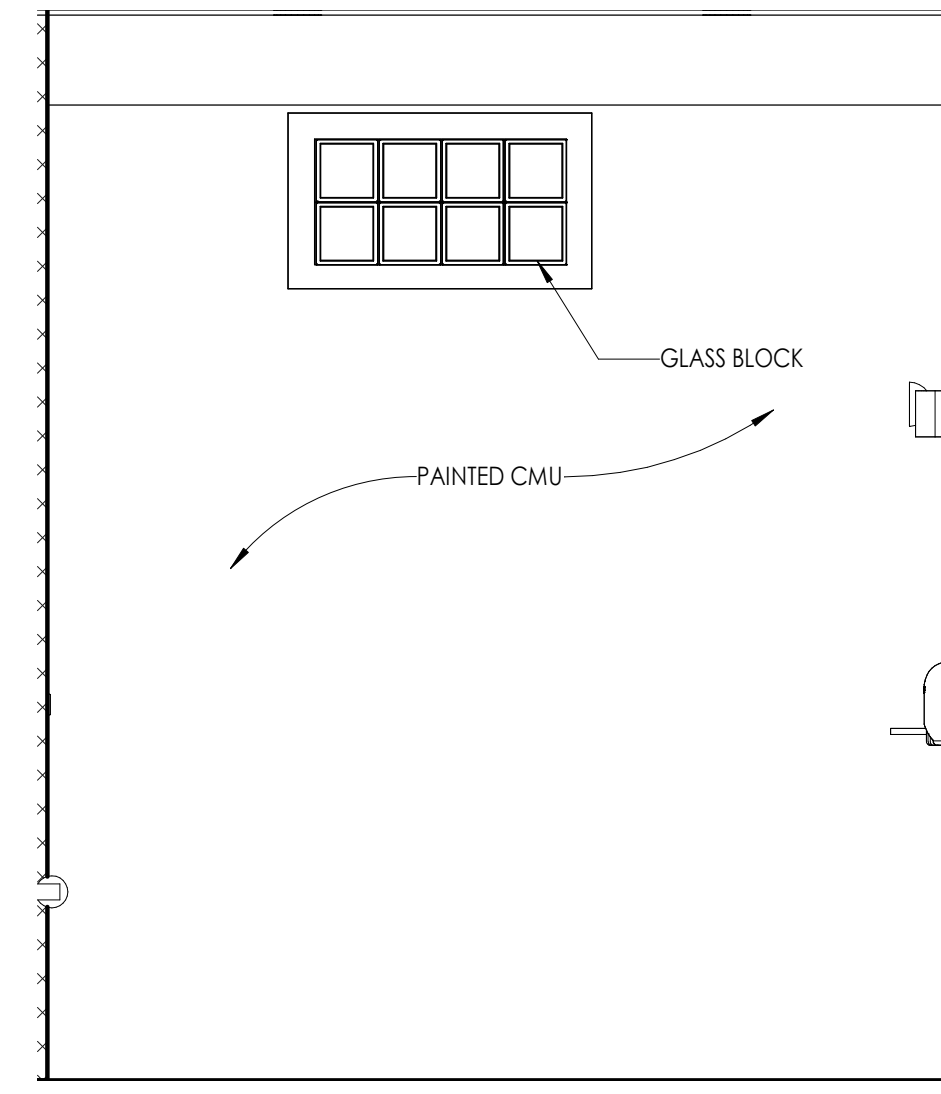
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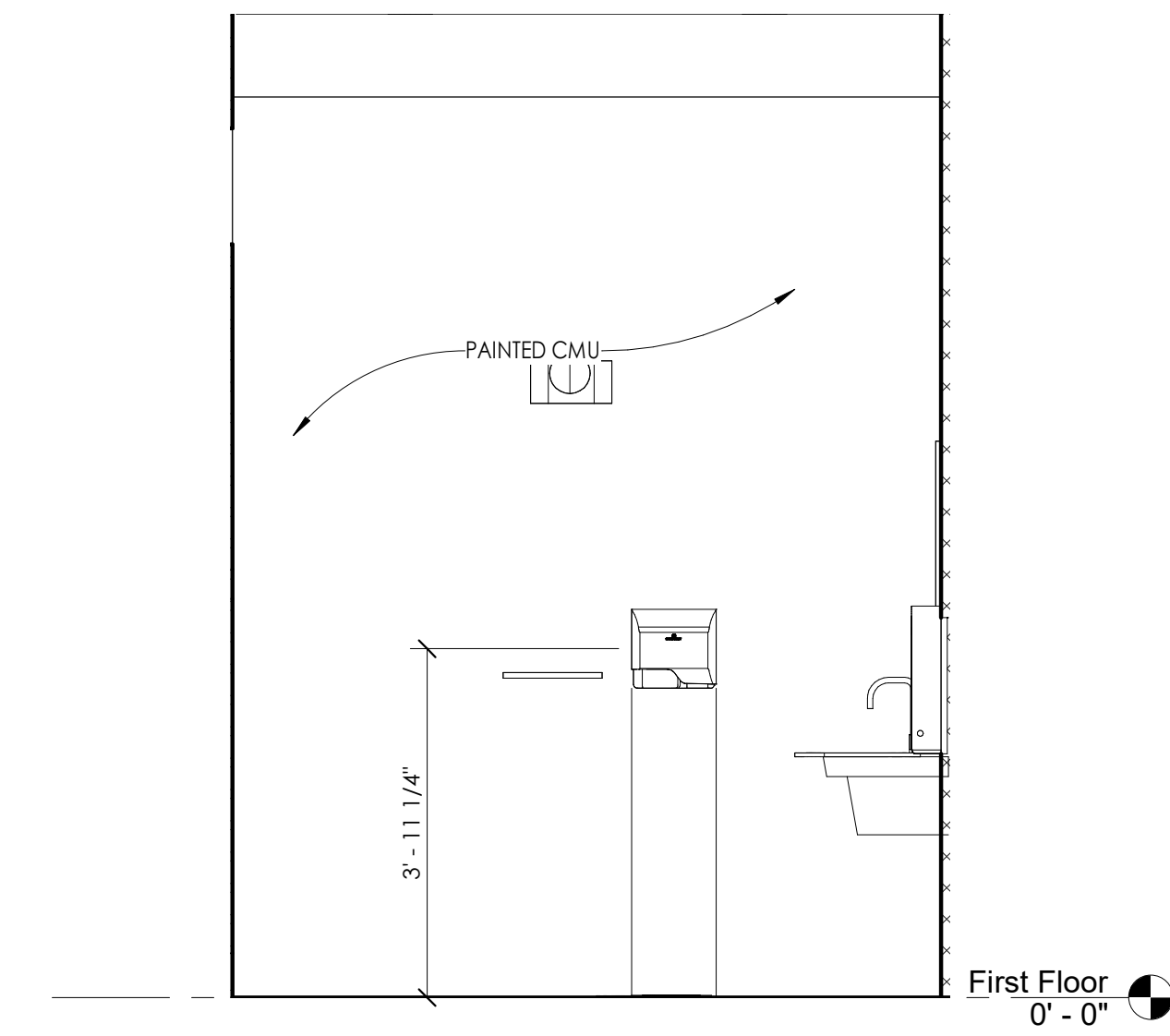
1 Elevation A  
1/2" = 1'-0"



2 Elevation B  
1/2" = 1'-0"

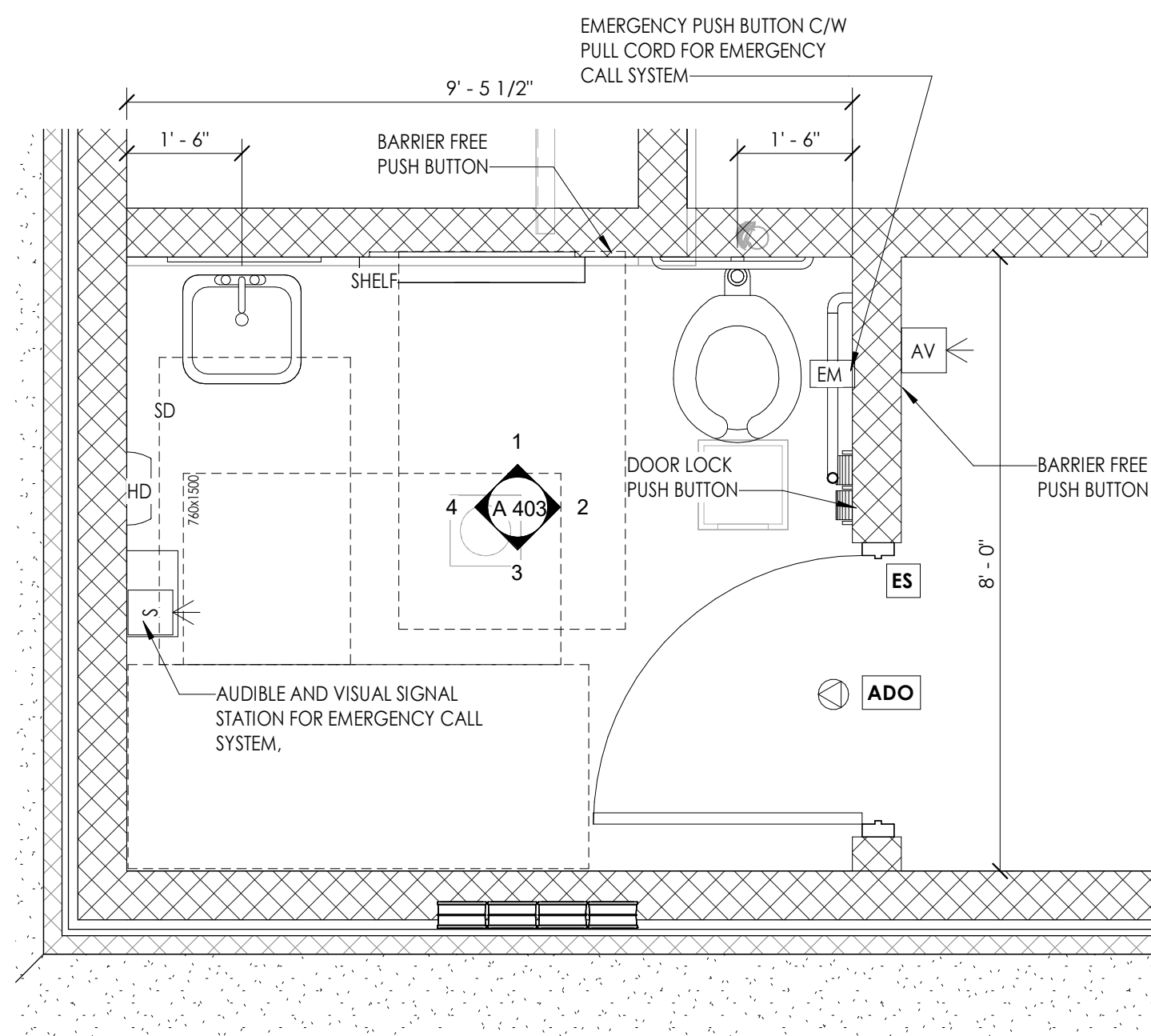


3 Elevation C  
1/2" = 1'-0"



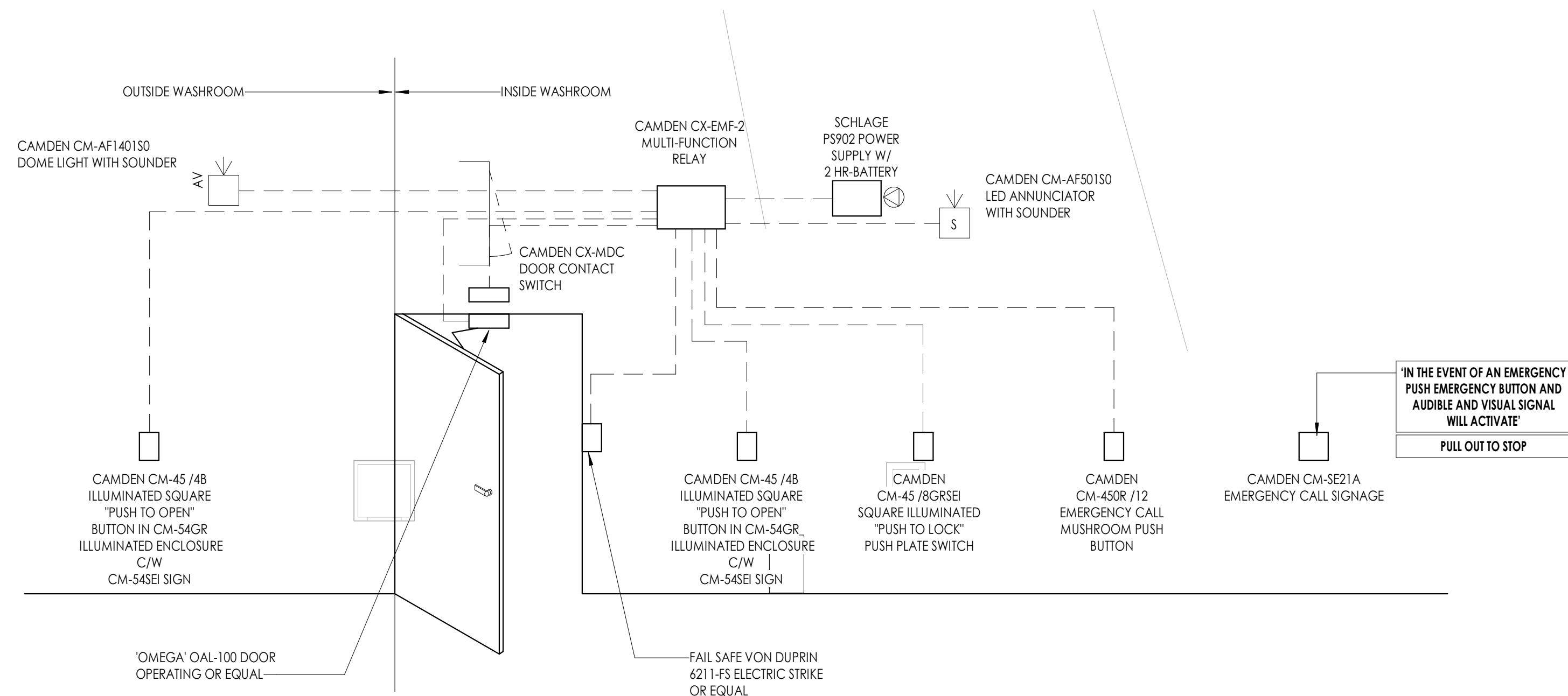
4 Elevation D  
1/2" = 1'-0"

First Floor  
0' - 0"



5 Enlarged Washroom  
1/2" = 1'-0"

ALL WASHROOM ACCESSORIES MARKED N.I.C. WILL BE SUPPLIED AND INSTALLED BY THE CITY OF WINDSOR  
COORDINATE THE FINAL LOCATION OF ACCESSIBLE PUSH BUTTONS WITH THE CITY OF WINDSOR



OPERATION OF AUTOMATIC DOOR CONTROL SYSTEM

THE WASHROOM DOOR IS NORMALLY CLOSED AND UNLOCKED. THE EXTERIOR "PUSH TO OPEN" ILLUMINATED PUSH PLATE SWITCH OUTER RING IS GREEN INDICATING THE WASHROOM IS VACANT. PRESSING THE "PUSH TO OPEN" SWITCH WILL OPEN THE DOOR. ONCE THE DOOR IS CLOSED, PRESSING THE "PUSH TO LOCK" ILLUMINATED PUSH PLATE SWITCH WILL LOCK THE DOOR. THIS DISABLES THE EXTERIOR PUSH BUTTON. OUTSIDE LEVER IS ALWAYS IN LOCKED POSITION. THE "PUSH TO LOCK" OUTER RING WILL GLOW RED INDICATING THE DOOR IS LOCKED. ALSO, THE EXTERIOR ILLUMINATED PUSH PLATE RING WILL GLOW RED INDICATING THE WASHROOM IS OCCUPIED. TO EXIT PUSHING THE LEVER DOWN OR PRESSING INTERIOR PUSH PLATE SWITCH WILL OPEN THE DOOR AUTOMATICALLY AND RESET THE SYSTEM. THE ILLUMINATED PUSH PLATE SWITCHES WILL GLOW GREEN INDICATING THE WASHROOM IS VACANT. IF THE DOOR IS OPENED MANUALLY TO EXIT THE WASHROOM, THE OVERHEAD MAGNETIC CONTACT WILL RESET THE SYSTEM.

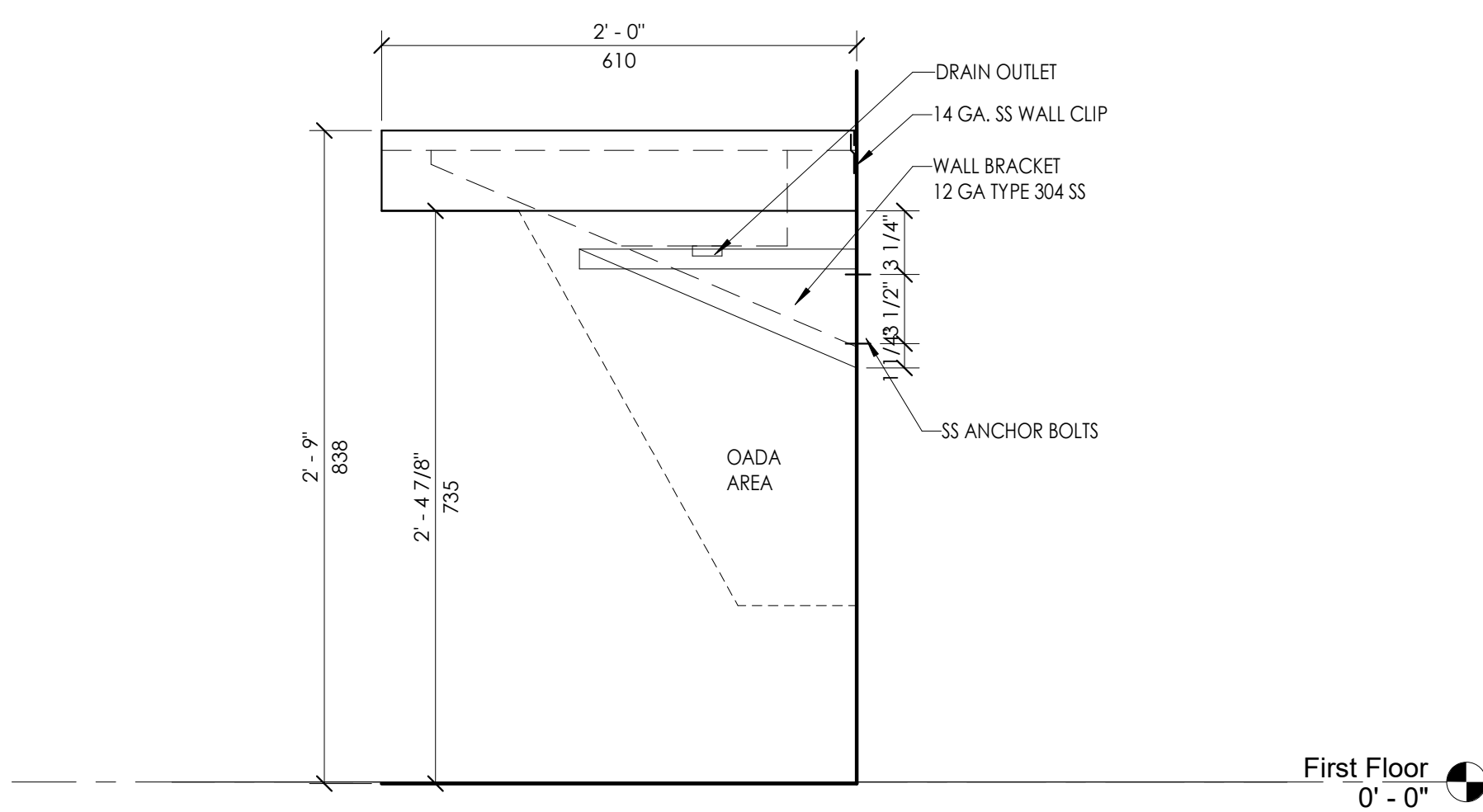
AUTOMATIC DOOR OPENING AND EMERGENCY CALL SYSTEMS FOR UNIVERSAL WASHROOM

OPERATION OF EMERGENCY CALL SYSTEM

WHILE THE WASHROOM DOOR IS OCCUPIED, PRESSING "PRESS FOR EMERGENCY ASSISTANCE" MUSHROOM PUSH BUTTON WILL DE-ENERGIZE THE ELECTRICAL STRIKE AND UNLOCK THE DOOR. IN ADDITION, THIS ENERGIZES THE LED ANNUNCIATOR WITH "ASSISTANCE REQUIRED" MESSAGE TEXT AND SOUNDER WITHIN THE WASHROOM AS WELL AS THE DOME LIGHT WITH "ASSISTANCE REQUIRED" MESSAGE TEXT AND PIEZO SOUNDER OUTSIDE THE WASHROOM. BOTH ANNUNCIATORS WILL BE ENERGIZED UNTIL THE LATCH OF "PRESS FOR EMERGENCY ASSISTANCE" MUSHROOM PUSH BUTTON IS PULLED OUT. PROVIDE A SIGN INDICATING 'IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON INDUCIBLE AND VISUAL SIGNAL WILL ACTIVATE' ABOVE THE MUSHROOM ACTIVATION SWITCH.

INSTALL THE DOOR CONTROL SYSTEM AND EMERGENCY CALL SYSTEM AS PER MANUFACTURER INSTRUCTIONS

6 Univ. Wash. - Door Control  
1/2" = 1'-0"



CONSTRUCTION:  
16 GA TYPE 304 STAINLESS STEEL. TOP OF FLANGE & INSIDE OF BOWL TO HAVE A #4 FINISH. UNDERSIDE OF BOWL TO BE SOUND DEADENED.

7 Through Sink Detail  
1 1/2" = 1'-0"

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ELIZABETH K PARK

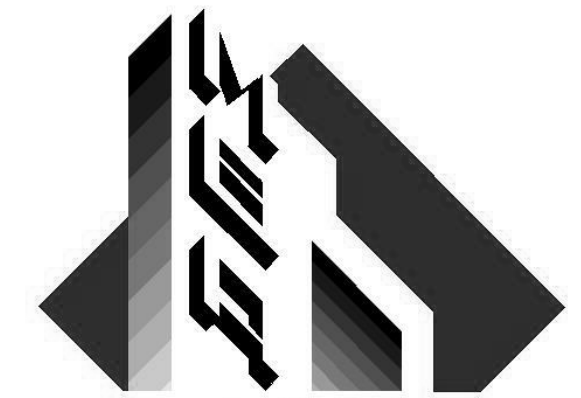
Enlarged Plan,  
Elevations & Details

Project number	2104
Date	JULY 2021
Drawn by	M. B.
Checked by	M. B.

A 403

Scale As indicated





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Room Finish Schedule

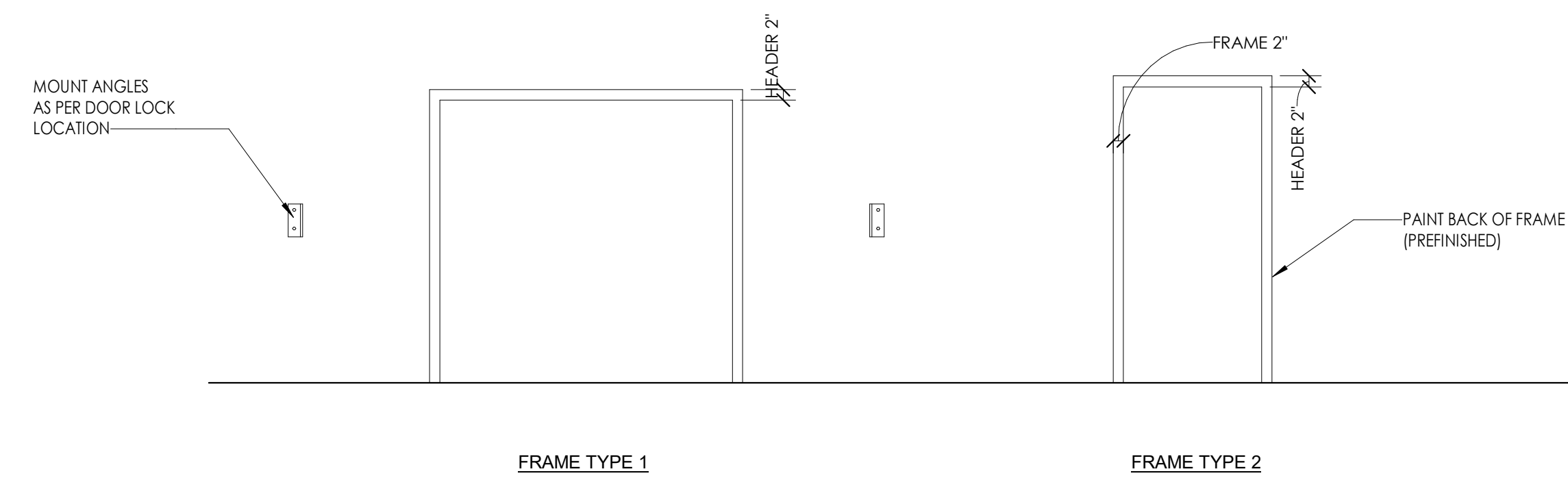
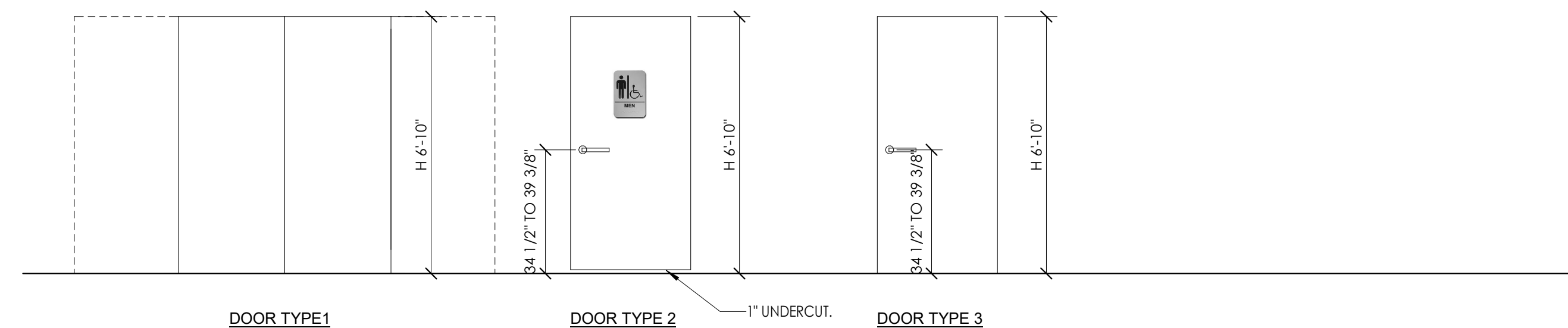
Room Number	Room Name	Floor Finish	Wall Finish / Colour				Ceiling	Comments
			North Wall	West Wall	South Wall	East Wall		
01	LOBBY	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	
02	UNIVERSAL WS A	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	
03	EQUIPMENT RM	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	EXPOSED TRUSSES	
04	WOMEN'S WASHROOMS	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	
05	MEN'S WASHROOMS	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	
06	ELECTRICAL RM	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	EXPOSED TRUSSES	
07	UNIVERSAL WS B	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	

**GENERAL NOTES:**

- 1- ALL MATERIALS AND WORKMANSHIP TO BE PREMIUM QUALITY.
- 2- ALL FINISHES TO MEET FLAME-SPREAD RATING AND SMOKE CLASSIFICATION OF ONTARIO BUILDING CODE.

Door Schedule

Door Number	Door Size	Door			Frame			Hardware
		Door Type	Material	Finish	Frame Material	Finish	Frame Type	
D01	6'-4" x 6'-10"	6		PREFINISHED	HM	PREFINISHED	1	1
D02	3'-6" x 6'-10"	5	HM	PREFINISHED	HM	PREFINISHED	2	2
D03	3'-6" x 6'-10"	4	HM	PREFINISHED	HM	PREFINISHED	2	3
D04	3'-6" x 6'-10"	4	HM	PREFINISHED	HM	PREFINISHED	2	3
D05	3'-6" x 6'-10"	5	HM	PREFINISHED	HM	PREFINISHED	2	2



**HARDWARE SCHEDULE**

HEADING 1				HEADING 2				HEADING 3					
2	ROTON HINGE	780-210HD 82" 180° OPENING	628 UNK	1	ROTON HINGE	780-210HD 82" -	628	1	ROTON HINGE	780-210HD 82"	628	UNK	
2	SURFACE BOLT	8031	UNK	1	STOREROOM LOCK	ND30PD RHO -	626	1	PADBOLT	2205			
2	DEADBOLT	B660P MOUNT @ 54" A.F.F.	626 SCH	1	AUTO OPERATOR	'OMEGA' DAL-100		1	PASSAGE SET	D10S ORB	626		
1	SET - WEATHERSTRIP	W-2 X 210	628 KNC	1	ELECTRIC STRIKE	6211-FS		1	SURFACE CLOSER	4040XP HCUSH	689		
2	DOOR SWEEP	W-24S 42"	628 KNC	1	KICKPLATE	CBH903 10 X 44 X .050 TEK -	630	1	KICKPLATE	CBH903 10 X 36 X .050 TEK	630		
1	THRESHOLD	CT-10 X 84"	628 KNC	1	IWALL STOP	145 15		1	BLOCKER PLATE	16A			
Z METAL ASTRAGAL BY DOOR SUPPLIER MOUNT SECOND DEADBOLT ON INACTIVE LEAF 48" A.F.F. TO LOCK OPEN DOOR AT 180°				1				ISIGN	AKLP-63 SYMBOL	UNK	W-2 X 180 628 W-24S 42" 628 CT-9 X 42" 628		

\* REFER TO ELECTRICAL DRAWINGS FOR COORDINATION AND ADDITIONAL REQUIREMENTS

PADLOCK IS SUPPLIED BY OWNER

**HARDWARE MANUFACTURERS:**

1. HINGES: HAGER
2. LATCH SETS: SCHLAGE LOCK COMPANY
3. CYLINDER LOCKS: MEDICO CO. LTD
4. CLOSERS: LCN DOOR CLOSERS.
5. AUTOMATIC OPENER: OMEGA
6. ELECTRIC STRIKE: VON DUPRIN
7. KICK PLATES: CANADIAN BUILDERS HARDWARE
8. WALL / FLOOR STOP: CANADIAN BUILDERS HARDWARE
9. OVERHEAD STOP: GLYNN-JOHNSON MFG. CO.
10. WEATHERSTRIP: K.N.CROWDER MFG. INC.
11. THRESHOLD: K.N.CROWDER MFG. INC.
12. DOOR SWEEP: K.N.CROWDER MFG. INC.
13. DOOR SIGN: UNK

**LIST OF FINISHES:**

- AL EXTRUDED ALUMINIUM
- 15 (619) DULL NICKEL PLATED
- 26D (426) DULL CHROME (BRUSHED)
- 32D (430) DULL STAINLESS STEEL
- 689 POWDER COATED ENAMEL
- 28 (628) ANODIZED ALUMINIUM

**DOOR SIGN TYPES:**

- TYPE 1 UNIVERSAL WASHROOM WITH ACCESSIBLE SYMBOL
- TYPE 2 MALE OR FEMALE WITH ACCESSIBLE SYMBOL

**GENERAL NOTES:**

- 1- COORDINATE ROUGH OPENING DIMENSIONS WITH DOOR MANUFACTURERS BEFORE FRAMING WALLS.
- 2- PROVIDE WALL REINFORCEMENT AS REQUIRED BY DOOR SUPPLIERS.



TYPE 1



TYPE 2

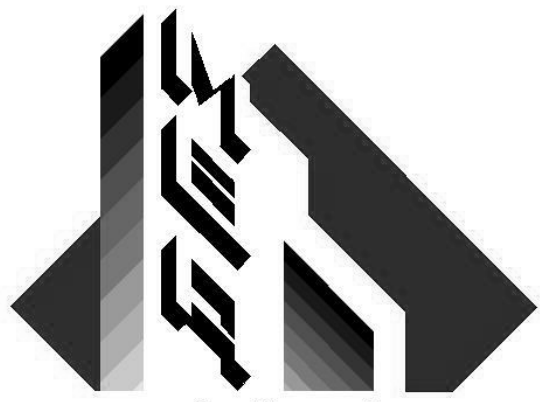
SIZE 8.5" HX 7" W. 1/4" THICK ALUMINIUM PLAQUE WITH PAINTED EDGES AND SINGLE LINE BORDER. BRAILLE AND TACTILE. SAND BACKGROUND. BACKGROUND COLOUR BLACK - RAISED INFORMATION BRUSHED ALUMINIUM. BLIND MOUNT STANDARD. FOR INDOOR APPLICATION. DOUBLE SIDED TAPE.

No.	Description	Date
1	ISSUED FOR TENDER	JAN X, 2022

**WASHROOM BUILDING  
ELIZABETH K PARK**

**Schedules**

Project number	2104
Date	JULY 2021
Drawn by	J. R.
Checked by	M. B.
<b>A 501</b>	
Scale	



Maged Basilius Architect

www.mbarchitect.ca

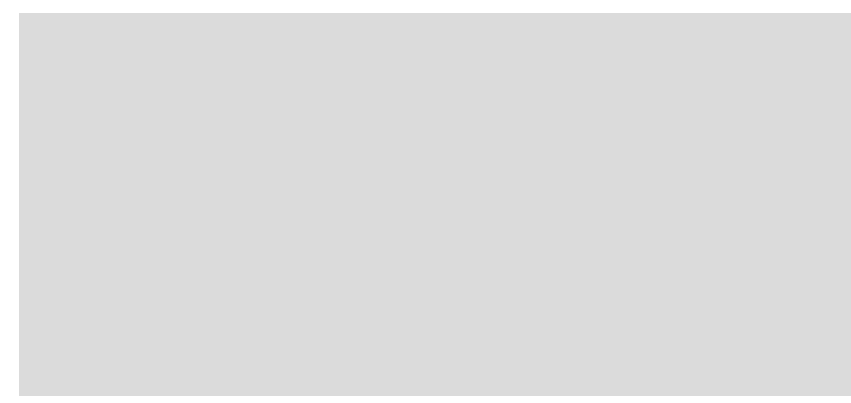
Maged Basilius Architect  
 1605 Ottawa St., Suite 101  
 Windsor, Ontario N8Y 1R2  
 Phone: 519-969-0086  
 Fax: 519-969-9317  
 e-mail: mbasilius@mbarchitect.ca



GRAY OWL

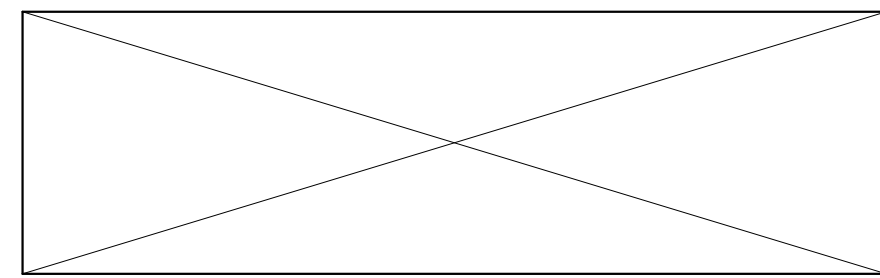
**EPOXY FLOOR - W/FLAKES**

BENJAMINE MOORE  
 GRAY OWL  
 OR  
 MATCHING SHERWIN WILLIAMS



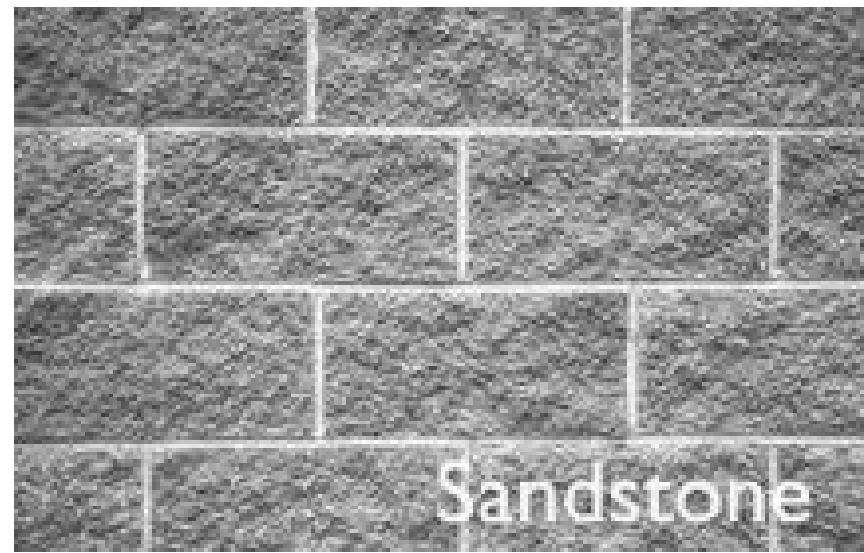
**EPOXY WALL**

SHERWIN WILLIAMS  
 COLOUR: CASA BLANCASW 7571



**PREFINISHED METAL ROOFING**

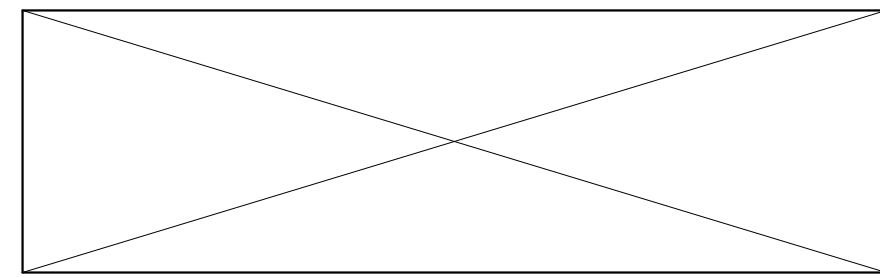
TBD



Sandstone

**ARCHITECTURAL CONCRETE BLOCK:**

TYPE 1: SPLIT FACE COLOUR SANDSTONE



**FIBRE CEMENT SIDING**

TBD



**DOORS AND FRAMES**

SHERWIN WILLIAMS  
 COLOUR: POPCORN SW 7674



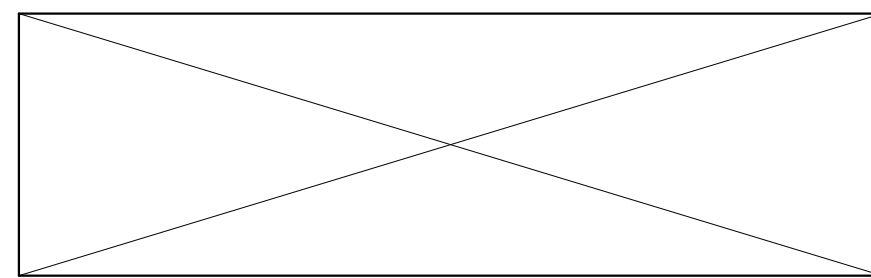
**TOILET PARTITIONS**

833 TRICON BLACK  
 ANTI GRAFFITI



**VINYL CEILING**

WHITE OR LIGHT GREY



**SOFFIT AND FASCIA COLOUR**

TBD

**THIS IS A PROPOSED COLOUR SCHEME  
 COORDINATE FINAL COLOURS WITH OWNER  
 BEFORE ORDERING ANY MATERIALS**

No.	Description	Date
1	ISSUED FOR TENDER	JAN X, 2022

**WASHROOM BUILDING  
 ELIZABETH K PARK**

**Colour Scheme**

Project number 2104

Date JULY 2021

Drawn by A. B.

Checked by M. B.

**A 502**

Scale

**GENERAL NOTES:**

1. ALL WORK IN THIS PROJECT SHALL BE ACCORDING TO THE CITY OF WINDSOR STANDARDS.
2. REFER TO SITE GRADING & SERVICING SITE PLANS FOR ALL EXISTING & NEW LOCATIONS OF SERVICES AND ENTRY OF SERVICES INTO THE BUILDING ENVELOPE. ALL MECHANICAL & ELECTRICAL INFORMATION INDICATED ON ARCHITECTURAL SITE DWG IS FOR GENERAL REFERENCE AND CO-ORDINATION ONLY.
3. REFER TO SITE GRADING PLAN FOR PROPOSED FINAL FINISH GRADE ELEVATIONS AND DRAINAGE SLOPES.
4. **EXISTING TREES TO REMAIN TO BE PROTECTED DURING CONSTRUCTION. REFER TO LANDSCAPE SPECIFICATIONS AND DRAWINGS.** ALL WORK INVOLVED IN THE CONSTRUCTION, RELOCATION, REPAIR OF MUNICIPAL SERVICES FOR THE PROJECT SHALL BE TO THE SATISFACTION OF THE CITY OF WINDSOR.
5. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING: BUILDING PERMIT, ROAD CUT PERMITS, APPROACH APPROVAL PERMITS, COMMITTEE OF ADJUSTMENTS, SEWER AND WATER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS (IF REQUIRED).
6. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE ENGINEERING SERVICES DEPARTMENT, CITY OF WINDSOR, FOR THE PURPOSES OF VEHICULAR ACCESS TO THE PROPERTY, (ENTRANCE PERMIT), AND SERVICING EXCAVATIONS WITHIN THE MUNICIPAL ROAD ALLOWANCE, (ROAD OCCUPANCY PERMIT).
7. PRIOR TO THE COMMENCEMENT OF ANY WORKS ON THIS SITE, HOARDING SHALL BE INSTALLED AROUND THE PERIMETER AS PER GOOD CONSTRUCTION AND SITE SAFETY PRACTICE OR AS DETERMINED BY THE MANAGER, DEVELOPMENT ENGINEERING, UNTIL SUCH TIME AS OTHERWISE DIRECTED BY THE MANAGER, DEVELOPMENT ENGINEERING.
8. SITE SILTATION CONTROL MEASURES/FENCING SHALL BE ERCTED FROM COMMENCEMENT OF THE PROJECT THROUGHOUT THE DURATION OF THE PROJECT AS PER OPSD 219.1.10.

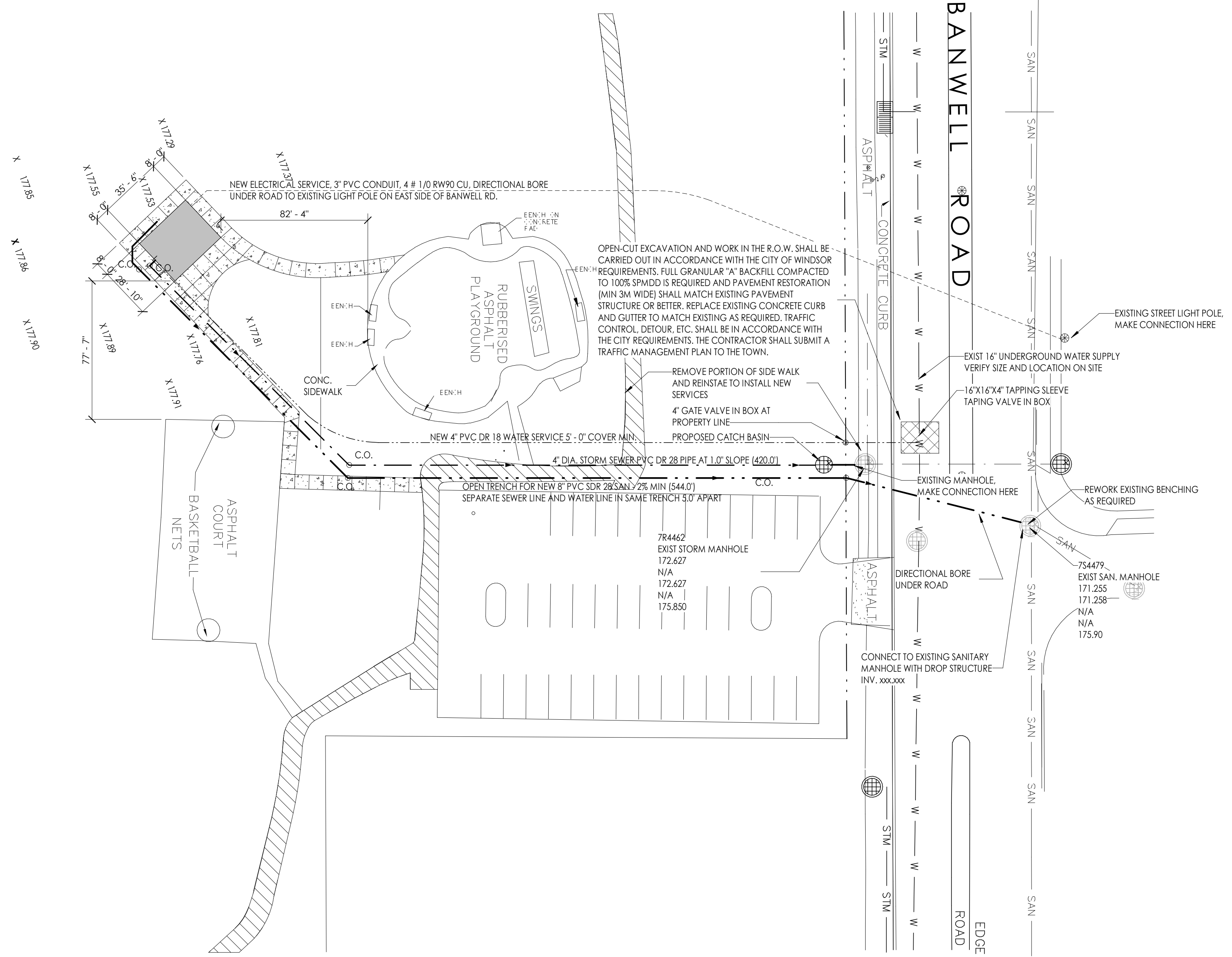
**SEDIMENT CONTROL NOTES:**

1. PROTECT ALL EXPOSED SURFACES AND CONTROL RUNOFF DURING CONSTRUCTION.
2. ALL EROSION CONTROL MEASURES ARE TO BE IN PLACE BEFORE STARTING CONSTRUCTION AND REMAIN IN PLACE UNTIL RESTORATION IS COMPLETE.
3. MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION.
4. ALL COLLECTED SEDIMENT MUST BE DISPOSED OFF AT AN APPROVED LOCATION.
5. MINIMIZE THE AREA DISTURBED DURING CONSTRUCTION.
6. ALL DEWATERING MUST BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN.
7. PROTECT ALL CATCH BASINS, MAINTENANCE HOLES AND PIPE ENDS FROM SEDIMENT INTRUSION WITH GEOTEXTILE (TERRAFIX 270R OR EQUAL).
8. KEEP ALL SUMPS CLEAN DURING CONSTRUCTION.
9. PREVENT WIND-BLOWN DUST.
10. STRAW BALES TO BE USED IN LOCALIZED AREAS AS SHOWN AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION FOR WORKS WHICH ARE IN, OR ADJACENT TO FLOODLINES, FILL LINES AND HAZARDOUS SLOPES.
11. STRAW BALES TO BE TERMINATED USING ROUNDING BALES TO CONTAIN AND FILTER RUNOFF.
12. OBTAIN APPROVAL FROM UTRCA (UPPER THAMES RIVER CONSERVATION AUTHORITY) PRIOR TO CONSTRUCTION FOR WORKS WHICH ARE IN, OR ADJACENT TO FLOODLINES, FILL LINES AND HAZARDOUS SLOPES.
13. ALL SILT FENCING AND DETAILS ARE AT THE MINIMUM TO BE CONSTRUCTED IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.
14. ALL OF THE ABOVE NOTES AND ANY SEDIMENT AND EROSION CONTROL MEASURES ARE AT THE MINIMUM TO BE IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.

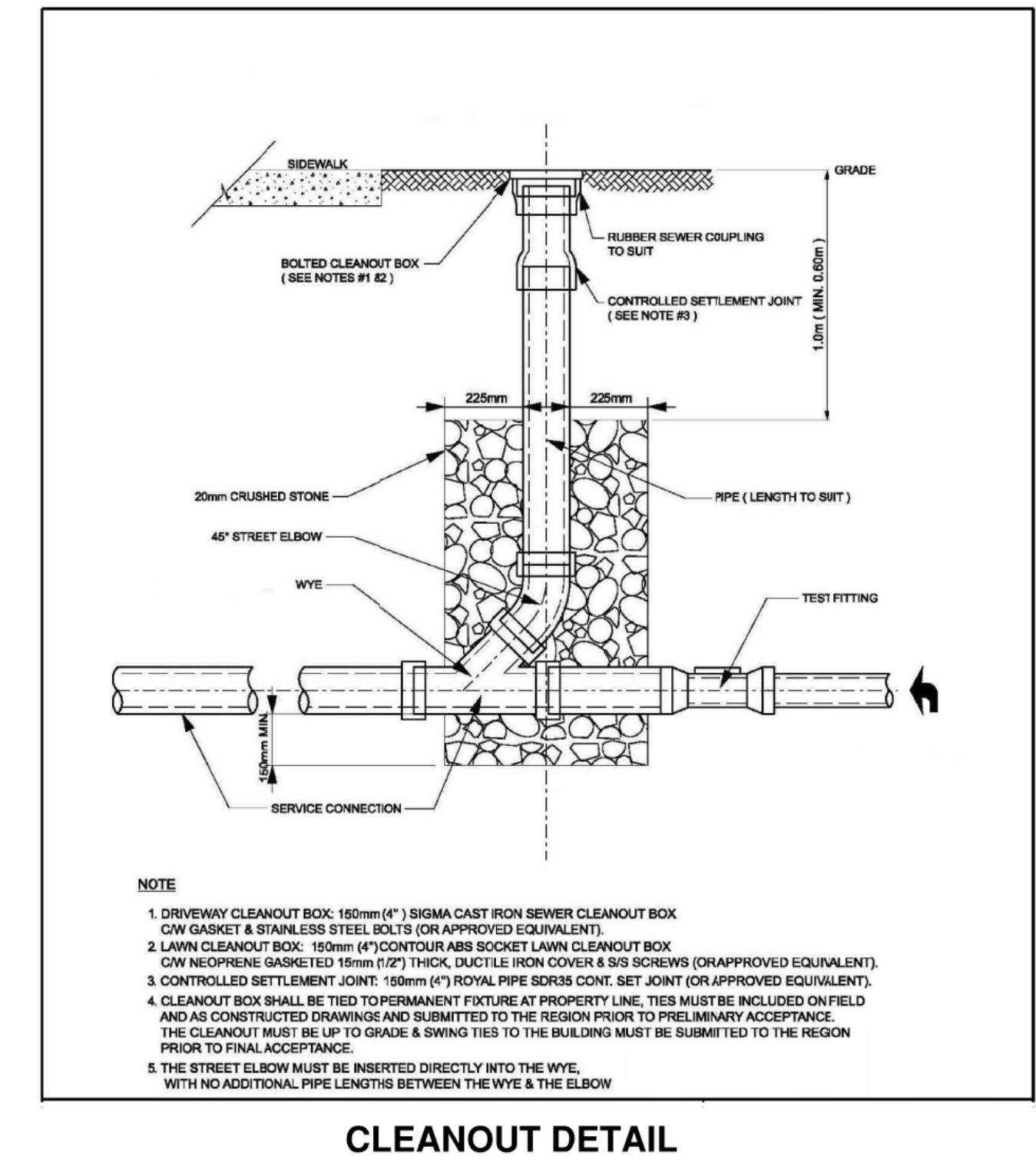
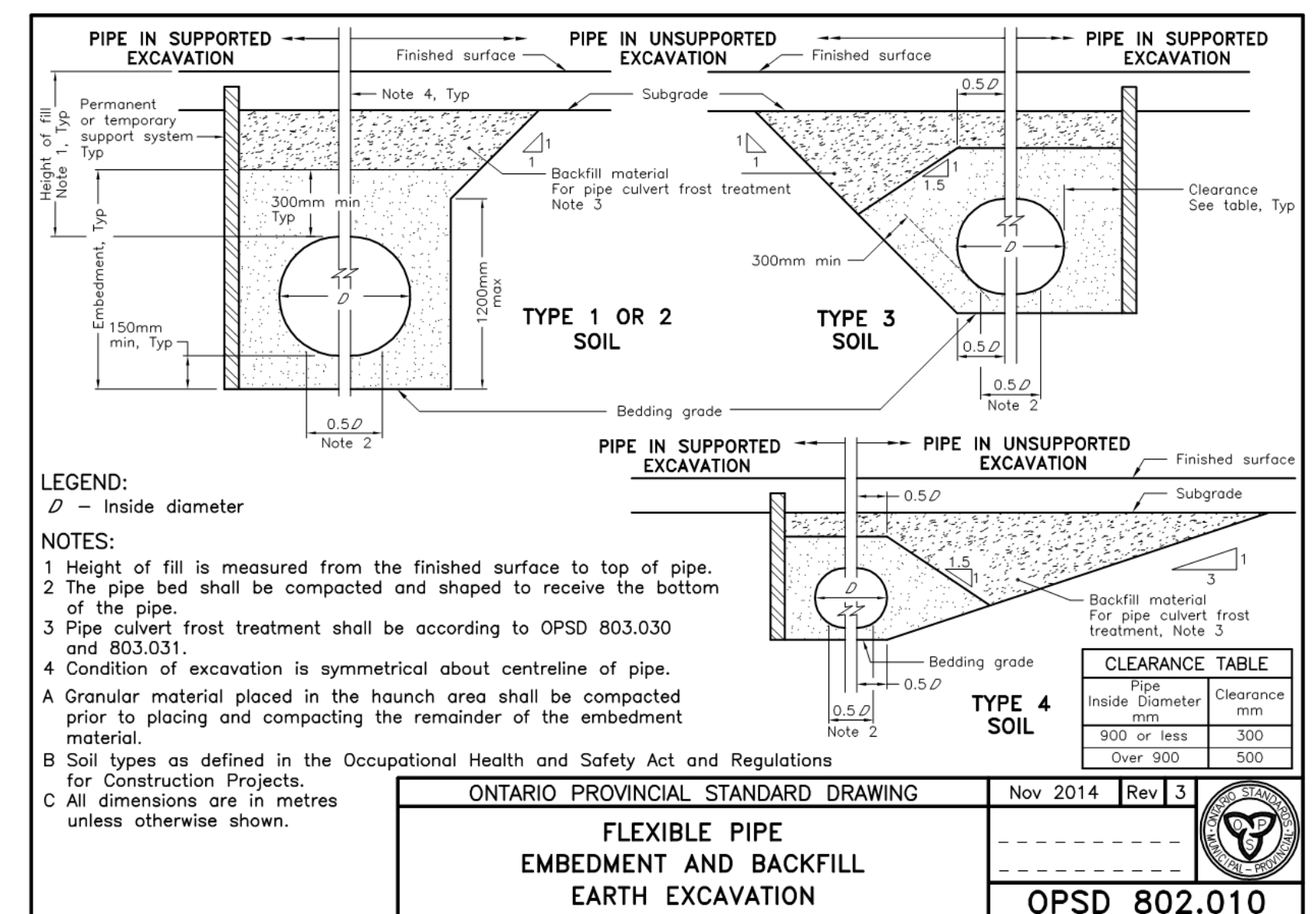
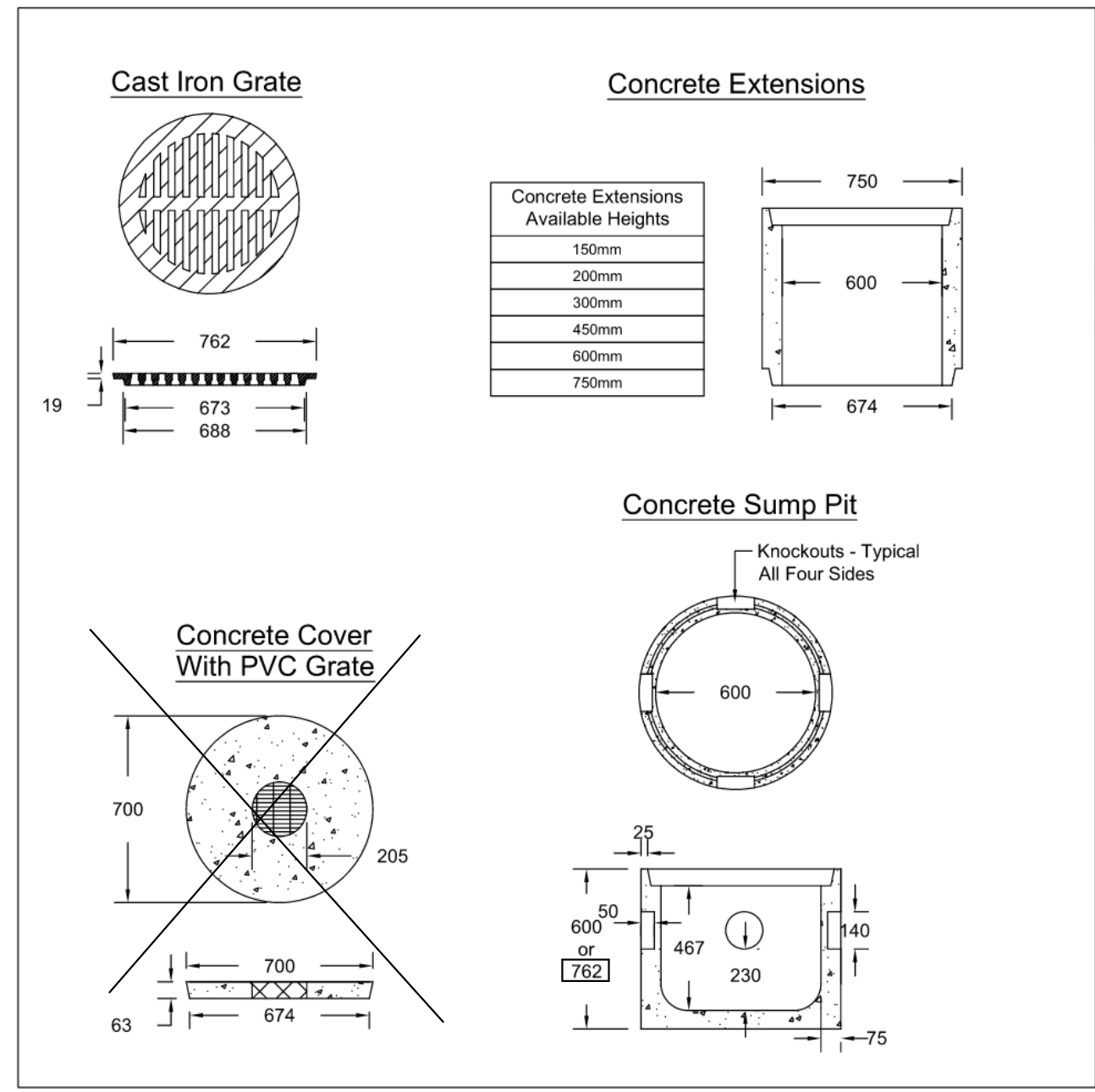
**GRADING AND DRAINAGE:**

1. APPROVED FILL MATERIAL SHALL BE COMPACTED TO 98% SPMDD MIN. TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER, UNLESS OTHERWISE NOTED. ALL SERVICES AND APPURTENANCES SHALL BE PLACED ON UNDISTURBED GROUND AND BACKFILLED WITH APPROVED MATERIAL.
2. BACKFILL FOR ALL SERVICES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH OPSD 802.10.
3. ALL GRASSSED AND PAVED SURFACES SHALL BE GRADED PER CITY OF WINDSOR SPECIFICATIONS:
4. GRASSSED AREAS: 2.0% MIN. FOR PLAY FIELDS, 1.5% MIN FOR ALL OTHER AREAS; 5% MAX.

- PROPOSED WASHROOM BUILDING
- PROPOSED CONCRETE SIDEWALK
- EXISTING ASPHALT SIDEWALK



**1 Site Services & Grading**  
1" = 40'-0"



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e-mail: mbasiliou@mbachitect.ca

**ALEO ASSOCIATES INC.**  
CONSULTING ENGINEERS  
325 Devonshire Rd Suite 500,  
Windsor, ON N8Y 2L3  
PHONE (519) 254-7926

No.	Description	Date
1	ISSUED FOR TENDER	JAN. X. 2022

**WASHROOM BUILDING ELIZABETH K PARK**

**Site Plan Services and Grading**

Project number 2104  
Date JULY 2021  
Drawn by M. M.  
Checked by P. A.

**C 101**

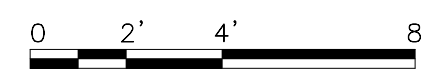
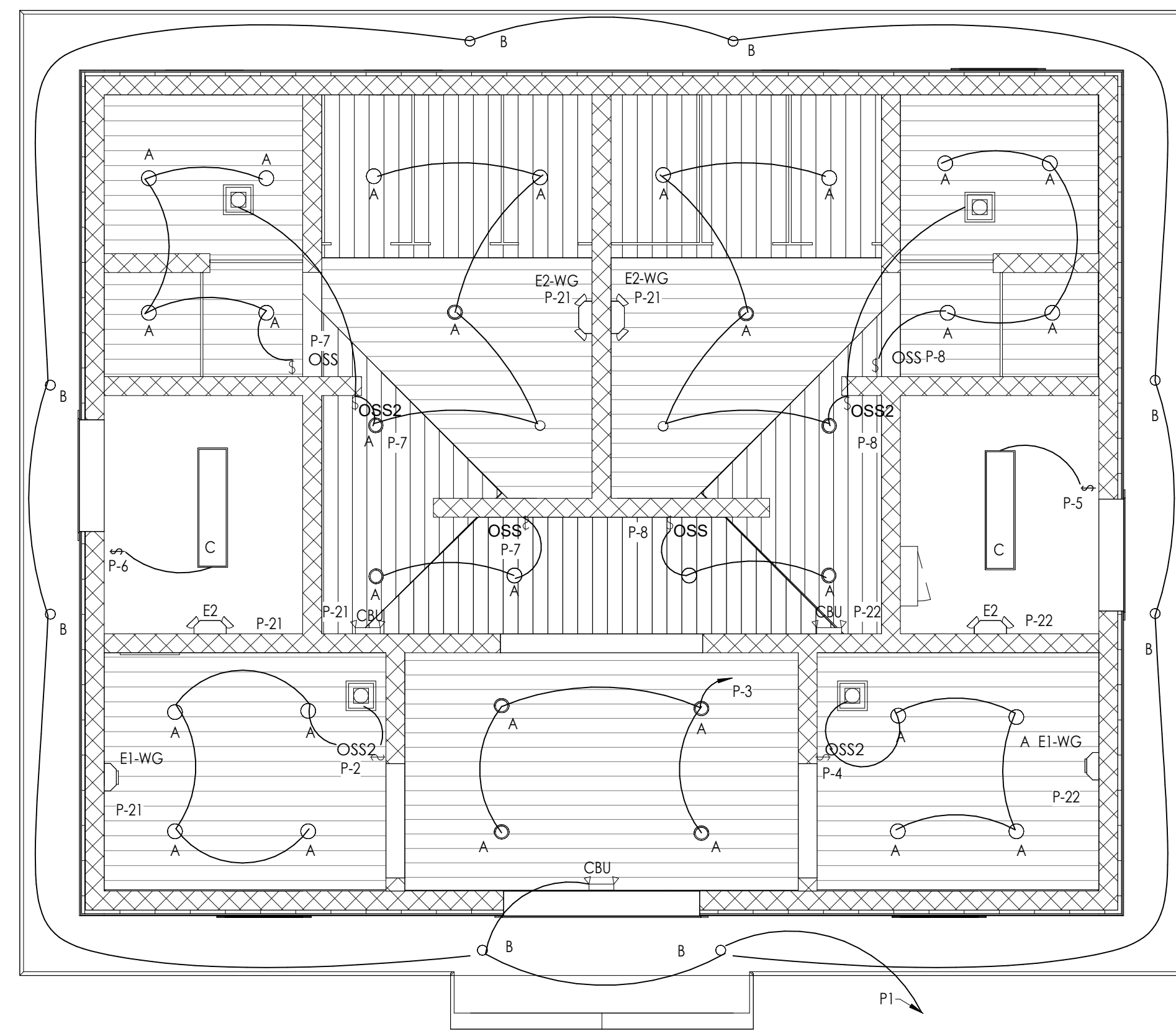
Scale 1" = 40'-0"



Maged Basilious Architect

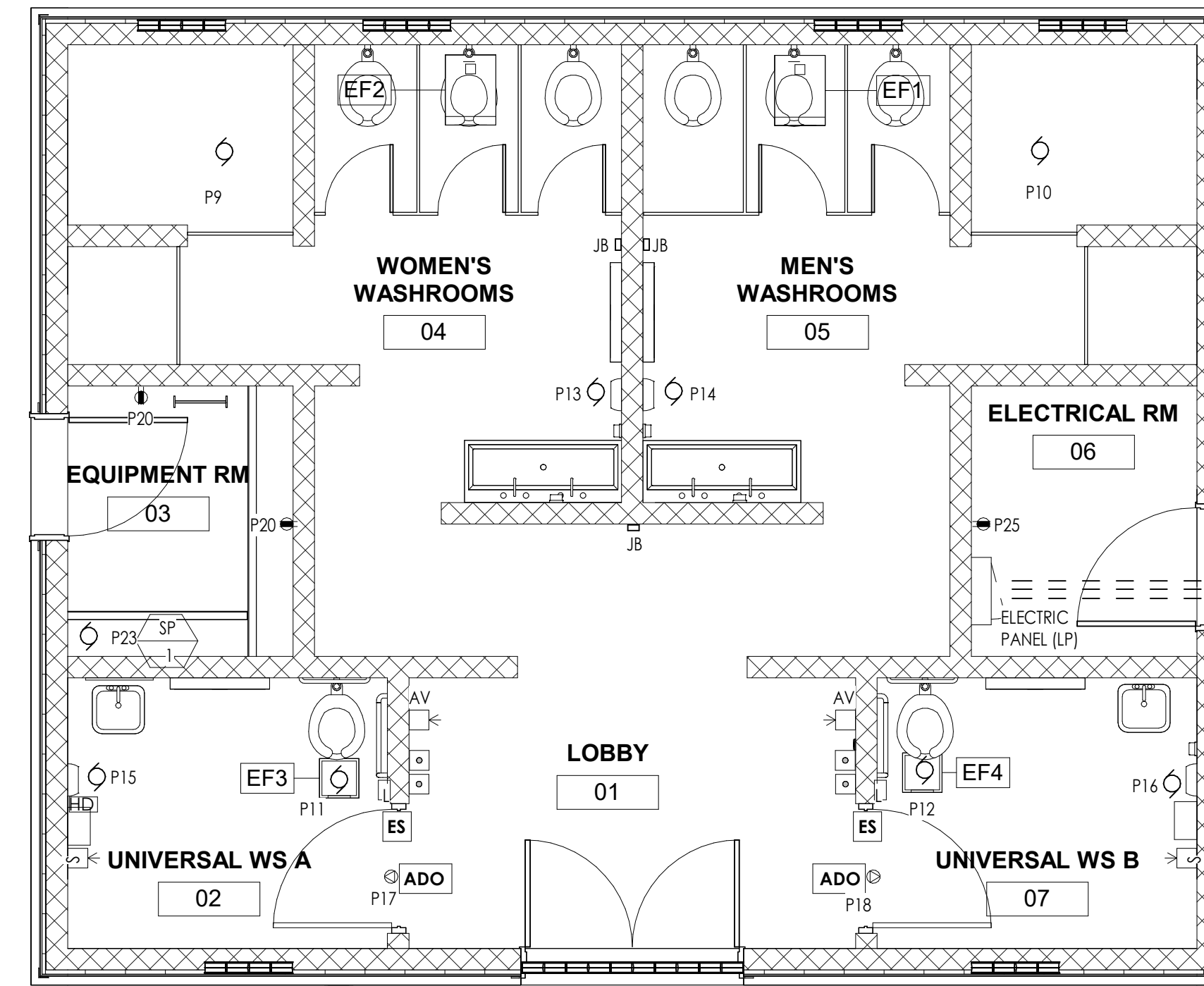
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e-mail: mbasilious@mbarchitect.ca



1 Lighting Floor Plan  
1/4" = 1'-0"

- LEGEND**
- §oss OCCUPANCY SENSOR: SENSORSWITCH, WSD PDT SA WH LT
  - §oss2 OCCUPANCY SENSOR: SENSORSWITCH, WSD PDT 2P SA WH LT
  - OS OCCUPANCY SENSOR: SENSORSWITCH, CMR PDT 10 LT (NOT USED)
  - OS2 OCCUPANCY SENSOR: SENSORSWITCH, CMR PDT 10 2P LT (NOT USED)
  - EXHUST FAN, SEE MECHANICAL
  - PHOTOCELL



2 First Fl. - Power & Systems  
1/4" = 1'-0"

- LEGEND**
- HD] HAND DRYER, XLERATOR - MODEL XL-BW 120V BY EXCEL DRYER
  - GFI DUPLEX OUTLET
  - ELECTRICAL MOTOR (EXHAUST FAN)
  - DEVICE POWER CONNECTION
  - 4" OCTAGON JUNCTION BOX 11'-0" A.F.F.L.

Lighting Fixture Schedule							
Type Mark	Count	Manufacturer	Model	Description	Lamp	Wattage	Image
A	38	Lithonia Lighting.....	68PMW HL LED 40K 90CRI L7X3LED T24	6" 4000K CCT, 950 lumens. 120v Matte White LED Module, 90CRI	4000K LED	15.26 W	
B	8	Lithonia Lighting.....	4BEMW LED 40K L3LED T24	4" MATTE WHITE BAFFLE LED MODULE 4000KCCT, 80 CRI	LED	10.80 W	
C	2	Lithonia Lighting.....	SBL4 6000LM 80CRI 40K NODIM MLVT		4000K LED	32.00 W	
CBU	3	Stanpro Lighting.....	PRMS-2L-WG	Stanpro Lighting Systems Emerg. 6V 36 Watt Combo Unit Exit Sign/2 heads	3 WHITE LEDS LUMEN OUTPUT = 310 LMS		
E1-WG	2	Stanpro Lighting.....	N1-6-12-3W LJ WH/ WG	Stanpro Lighting Systems Emerg. Remote Heads With LED Lens Optics	3 WHITE LEDS LUMEN OUTPUT = 310 LMS	1.90 W	
E2	2	Stanpro Lighting.....	N2-6-12-3W LJ WH	Stanpro Lighting Systems Emerg. Remote Heads With LED Lens Optics	3 WHITE LEDS LUMEN OUTPUT = 310 LMS	3.80 W	
E2-WG	2	Stanpro Lighting.....	N2-6-12-3W LJ WH	Stanpro Lighting Systems Emerg. Remote Heads With LED Lens Optics	3 WHITE LEDS LUMEN OUTPUT = 310 LMS	3.80 W	

Grand total: 57

VOLTS: 120 / 208 V  
PHASES: 3  
WIRES: 4  
MAINS RATING: 100A

**PANELBOARD SCHEDULE**

LOCATION:  
ELECTRICAL ROOM

MAIN BREAKER: 100A (BOLT ON)

LOAD DESCRIPTION	BRKR SIZE	CIR. NO.	BUS ABC.	CIR. NO.	BRKR SIZE	LOAD DESCRIPTION
CORRIDOR LIGHTS						
EXTERIOR SOFFIT LIGHTS	15A	1		2	15A	UNIV. WR A LIGHTS
LOBBY LIGHTS	15A	3		4	15A	UNIV. WR B LIGHTS
ELECTRICAL ROOM LIGHTS	15A	5		6	15A	EQUIPMENT ROOM LIGHTS
MEN WR LIGHTS	15A	7		8	15A	WOMEN WR LIGHTS
EXHAUST FAN EF-1	15A	9		10	15A	EXHAUST FAN EF-2
EXHAUST FAN EF-3	15A	11		12	15A	EXHAUST FAN EF-4
WOMEN HAND DRYER HD	20A	13		14	20A	MEN HAND DRYER HD
UNIV. WR A HAND DRYER	20A	15		16	20A	UNIV. WR B HAND DRYER
UNIV. WR A DOOR OPERATOR SYSTEM	15A	17		18	15A	UNIV. WR B DOOR OPERATOR SYSTEM
EQUIPMENT ROOM RECEPTCLES	15A	19		20	15A	EQUIPMENT ROOM RECEPTCLES
EMERGENCY / EXIT LIGHTS	15A	21		22	15A	EMERGENCY / EXIT LIGHTS
SUMP PUMP	15A	23		24	15A	EXIT LIGHTS
ELECTRICAL ROOM RECEPTCLES	15A	25		26	15A	
SPARE	15A	27		28	15A	
SPARE	15A	29		30	15A	
SPARE	15A	31		32	15A	
SPARE	15A	33		34	15A	
SPARE	15A	35		36	15A	
SPARE	15A	37		38	15A	
SPARE	15A	39		40	15A	
SPARE	15A	41		42	15A	
		TOTALS				

NOTES:  
1- CONTRACTOR TO BALANCE PANEL LOADS.  
2- PANEL DIRECTORY TO BE TYPED NOT HAND WRITTEN  
3- ALL LIGHTING CIRCUITS TO BE CONNECTED TO TIMERS IN ELECTRICAL ROOM

No.	Description	Date
1	ISSUED FOR TENDER	JAN X, 2022

**WASHROOM BUILDING  
ELIZABETH K PARK**

**Lighting & Power Plans &  
Schedules**

Project number	2104
Date	JULY 2021
Drawn by	M.B.
Checked by	JDH

**E 101**

Scale 1/4" = 1'-0"

2022-08-08 4:33:10 PM

**ELECTRICAL SPECIFICATIONS**

**1. SCOPE OF WORK:**  
THIS CONTRACT SHALL INCLUDE THE SUPPLY OF ALL TOOLS, EQUIPMENT, LABOUR AND MATERIALS EXCEPT AS OTHERWISE NOTED. REQUIRED FOR COMPLETE INSTALLATION, TESTING AND PUTTING INTO PROPER OPERATION ALL WORK AS SHOWN AND DETAILED ON THE PLAN AND AS SPECIFIED HEREIN.

**2. GUARANTEE:**  
CONTRACTOR SHALL GUARANTEE COMPLETE INSTALLATION AGAINST ANY DEFECTS IN WORKMANSHIP AND MATERIALS NOT DUE, IN THE OPINION OF THE OWNERS, FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF WORK. DEFECTS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNERS.

**3. CODES, PERMITS, FEES AND INSPECTIONS:**  
THE WHOLE OF THE WORK SPECIFIED HEREIN AND ON THE DRAWINGS SHALL COMPLY STRICTLY TO THE REQUIREMENTS OF THE LATEST EDITION OF THE ONTARIO ELECTRICAL CODE AS AMENDED TO DATE. THIS CODE AND ANY ADDITIONAL REQUIREMENTS EXCEEDING THE MINIMUM REQUIREMENTS OF THE CODE, THE DRAWING AND SPECIFICATIONS SHALL BE FOLLOWED.

BEFORE STARTING ANY WORK, SUBMIT THE REQUIRED NUMBER OF COPIES OF THE ELECTRICAL DRAWINGS AND SPECIFICATIONS TO THE ELECTRICAL SAFETY INSPECTION AUTHORITY (ESA), FOR THEIR APPROVAL AND COMMENTS, AND MAKE ANY REQUIRED CHANGES AND ALTERATIONS REQUESTED.

PAY ALL FEES FOR EXAMINATION OF DRAWINGS AND SPECIFICATIONS. PREPARE AND SUBMIT ANY ADDITIONAL DRAWINGS WHICH MAY BE REQUIRED BY THE ESA. OBTAIN ALL PERMITS REQUIRED AND PAY ALL PERMITS AND INSPECTION FEES.

ARRANGE FOR INSPECTION OF ALL WORK BY THE INSPECTION AUTHORITY DEPARTMENT ON COMPLETION OF THE WORK, PRESENT TO THE OWNER THE FINAL UNCONDITIONAL CERTIFICATES OF APPROVAL.

**4. ENGLISH/METRIC CONVERSION:**  
IMPERIAL UNITS ARE USED IN THIS PROJECT. WHERE MEASURED VALUES DEPEND ON MANUFACTURED PRODUCTS OR MATERIALS, THE METRIC CONVERSION FROM IMPERIAL SYSTEM UNITS SHALL BE A CLOSE APPROXIMATION OF THE ENGLISH VALUE. THESE VALUES, OTHERWISE KNOWN AS 'SOFT' CONVERSIONS, SHALL BE AS SPECIFIED IN APPROPRIATE TRADE SECTION, OR AS INSTRUCTED.

WHERE PRODUCTS OR MATERIALS ARE IDENTIFIED BY NOMINAL DIMENSIONS, METRIC VALUES SHALL BE CONVERTED TO ENGLISH SYSTEM SIZES AS SPECIFIED IN APPROPRIATE TRADE SECTION, OR AS INSTRUCTED.

**5. CO-ORDINATION:**  
WORK OF EACH TRADE SECTION UNDER THIS DIVISION SHALL BE LAID OUT IN SUCH A MANNER THAT EACH UNIT DOES NOT CONFLICT WITH WORK UNDER OTHER TRADE SECTIONS OR DIVISION OF THIS SPECIFICATION.

PREPARE FILED DRAWINGS SHOWING SIZE AND LOCATION OF INSERTS, SLEEVES AND OPENINGS REQUIRED FOR PASSAGE OF CABLE, MAJOR CONDUITS, THROUGH WALLS, PARTITIONS, ROOFS.

CEILING, FLOORS AND STRUCTURAL MEMBERS, CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS, IF AVAILABLE, FOR SPECIFIC REQUIREMENTS. OPENINGS SHALL BE LOCATED RELATIVE TO GRID LINES AND ELEVATION DATA.

PREPARE DRAWINGS SHOWING SIZE AND LOCATION OF EQUIPMENT BASES AND ANCHORS PERTAINING TO THE WORK OF THIS DIVISION.

**6. PROTECTION OF WORK AND MATERIALS:**  
PROTECT MATERIALS AND EQUIPMENT FROM DAMAGE, INCREMENT WEATHER AND/OR EXTREME TEMPERATURES. PROVIDE ENCLOSURE, TARPOLINS, OR SPECIAL PROTECTION AS REQUIRED UNDER THE CIRCUMSTANCES.

**7. WARRANTY:**  
WARRANT ALL EQUIPMENT AND MATERIAL SUPPLIED AND INSTALLED UNDER THIS DIVISION AGAINST DEFECTS, DEFICIENCIES IN EQUIPMENT DESIGN, MATERIALS AND WORKMANSHIP WHICH ARE NOT DETECTED PRIOR TO DATE OF SUBSTANTIAL PERFORMANCE OF THE SYSTEM, BUT WHICH MAY DEVELOP WITHIN (1) ONE YEAR AFTER SUCH ACCEPTANCE. MAKE GOOD ANY SUCH DEFECTS AND DEFICIENCIES AT NO CHARGE TO THE CONTRACT PRICE. PROVIDE EXTENDED WARRANTIES WHERE CALLED FOR.

**8. INSERTS AND HANGERS:**  
PROVIDE AND INSTALL ALL INSERTS, HANGERS, ANCHORS AND SUPPORTS REQUIRED FOR ALL WORK TO BE INSTALLED UNDER THIS DIVISION.

**9. ACCESSIBILITY:**  
INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIRS BY ACCESS PANELS OR OTHER ACCEPTABLE MEANS.

**10. GROUNDING:**  
PROVIDE ALL GROUNDING TO CONFORM WITH THE CANADIAN ELECTRICAL CODE AND THE LATEST GROUNDING INSTRUCTIONS OF THE INSPECTION AUTHORITY, WITH ANY FURTHER REQUIREMENTS AS NOTED HEREIN.

BOND ALL INTERIOR NON-ELECTRICAL METALLIC PIPING SYSTEMS TO THE ELECTRICAL SYSTEM GROUND INCLUDING, BUT NOT LIMITED TO, WATER SUPPLY, WASTE WATER AND GAS SYSTEMS.

GROUND ALL CONDUIT, AND ALL NON-CURRENT CARRYING METAL PARTS, EQUIPMENT CASES, FRAMES, BASES, BRACKETS, ETC.

**11. CONDUIT INSTALLATION:**  
PROVIDE GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE SPECIFIED OR REQUIRED BY CODE.

CONCEAL ALL CONDUIT EXCEPT IN SERVICES SPACES.

INSTALL ALL LOCK NUTS AND BUSHINGS TO ENSURE A SECURE MECHANICAL AND ELECTRICAL BOND. USE ERICKSON COUPLINGS IN LIEU OF RUNNING THREADS.

PROVIDE BUSHINGS ON THE ENDS OF ALL CONDUITS IN ENCLOSURES, BOXES, PANELS AND CABINETS, TO PROTECT THE CONDUCTOR INSTALLATION.

LAY OUT CONDUIT TO DRAIN FREE OF ALL MOISTURE.

KEEP CONDUIT NOT LESS THAN 6" (150MM) CLEAR OF STEAM PIPES, FLUES AND OTHER SUCH WORK.

SUPPORT CONDUITS FROM STRUCTURAL MEMBERS, SUPPORT SPACING TO BE IN ACCORDANCE WITH CODE REQUIREMENTS.

SUPPORT MULTIPLE RUNS OF CONDUIT ON CHANNEL OR ANGLE IRON WITH ROD HANGERS.

SECURE ALL CONDUITS IN PLACE WITH CONDUIT CLAMPS, T, & B.L. OR APPROVED EQUAL, PERFORATED PIPE STRAPS, WIRE LASHINGS, WOOD SCREWS OR NAILS ARE NOT ACCEPTABLE.

MAKE FIELD BENDS AND OFFSETS UNIFORM AND SYMMETRICAL WITHOUT FLATTENING CONDUIT. MINIMUM BENDING RADIUS SHALL BE TEN TIMES THE CONDUIT DIAMETER.

REAM CONDUIT ENDS TO REMOVE BURRS AND SHARP EDGES. FIT CONDUIT STUBS WITH WATERPROOF PLASTIC CAPS DURING INSTALLATION TO PROTECT THREADS AND TO PREVENT ENTRANCE OF MOISTURE INTO CONDUIT.

TEST ALL CONDUITS FOR CLEAR BORE USING BALL MANDREL, BRUSHES AND SNAKE.

INSTALL A CONTINUOUS NYLON CORD 180 KG (400 LB) TEST IN EACH ENCLOSED RACEWAY LEFT EMPTY.

SECURE CONDUITS ABOVE CEILING TO STRUCTURAL MEMBERS, CONDUITS SHALL NOT BE SUPPORTED FROM THE CEILING SUSPENSION SYSTEM. CO-ORDINATE INSTALLATION OF CONDUITS WITH MECHANICAL DUCTWORK, PIPING, ETC.

PROVIDE CONDUIT SEALS IN CONDUITS WHICH PASS REFRIGERATED AREAS OR TO THE OUTSIDE.

PROVIDE PULL BOXES, FITTINGS OR JUNCTION BOXES IN CONDUIT RUNS, ON THE BASIS OF NOT MORE THAN 100 (30M), IN STRAIGHT RUNS BETWEEN BOXES.

ALL CONDUIT TO BE CONCEALED IN ALL NEW WALLS, CONDUIT TO BE RECESSED AND CONCEALED IN EXISTING WALLS OR AS DIRECTED BY THE ARCHITECT. PROVIDE ALL NECESSARY CUTTING AND PATCHING TO SUIT.

SIZE CONDUITS TO CODE REQUIREMENTS, PROVIDE LARGER SIZES WHERE NOTED.

**12. OUTLET BOXES:**  
IN INTERIOR DAMP LOCATIONS, OR LOCATIONS EXPOSED TO WEATHER, PROVIDE ALL OUTLET BOXES OF WEATHERPROOF DESIGN WITH GASKET AND WEATHERPROOF COVER PLATE.

IN DRY LOCATIONS OUTLET BOXES USED WITH SURFACE MOUNTED EMT SHALL BE STANDARD SHEET STEEL SURFACE TYPE BOXES.

WHERE STANDARD BOXES ARE NOT SUITABLE, PROVIDE BOXES OF SPECIAL DESIGN TO FIT SPACE AND OTHER REQUIREMENTS.

INSTALL ALL BOXES IN WALLS SO THAT TAPPED HOLES FOR MOUNTING WIRING DEVICES WILL BE ALIGNED VERTICALLY OR HORIZONTALLY, AS REQUIRED, WHERE BOXES ARE GROUPED AT ONE LOCATION WITH COMMON AND VARYING MOUNTING HEIGHTS, ALIGN BOXES HORIZONTALLY AND VERTICALLY FROM CENTRE LINE UNLESS OTHERWISE INDICATED.

ENSURE THAT THE OUTLET BOXES WITHIN A CEILING SPACE ARE MINIMUM 8" (200MM) CLEAR FROM SUPPORT SYSTEM GRID.

OFFSET OUTLET BOX IN SOUND ATTENUATING PARTITIONS TO AVOID UNDUDE TRANSMISSION OF SOUND BETWEEN THE PARTITION ELEMENTS. USE FLEXIBLE CONDUIT CONNECTIONS WHERE WIRING IS REQUIRED BETWEEN OUTLET BOXES ON OPPOSITE SIDE OF PARTITIONS.

OFFSET OUTLET BOXES WHERE INSTALLED ON EITHER SIDE OF A FIRE SEPARATION.

**13. WIRE AND CABLE UP TO 600 VOLTS:**  
INSTALL ALL WIRING IN EMT UNLESS OTHERWISE REQUIRED BY CODE. BX WIRES CAN BE USED AS WELL.

WIRE FOR 120 VOLT BRANCH CIRCUITS SHALL BE MIN #12 AWG COPPER FOR RUNS UP TO 100 FEET (30M) AND #10 AWG MINIMUM FOR RUNS OVER 100 FEET (30M). WIRE FOR BRANCH CIRCUITS SHALL BE SIZED FOR PROPER CURRENT-CARRYING CAPACITY AND TO LIMIT THE VOLTAGE DROP AT THE OUTLET TO 2%.

WIRE FOR 120 VOLT CONTROL CIRCUITS SHALL BE #14 AWG MINIMUM. 24 VOLT CONTROL CIRCUITS SHALL BE #12 AWG MINIMUM.

USE SOLID CONDUCTORS FOR #10 AWG AND SMALLER. USE STRANDED CONDUCTORS FOR #8 AWG AND LARGER.

ALL WIRING, EXCEPT AS CLASSIFIED BELOW OR ON DRAWINGS, SHALL BE COPPER WITH TWH INSULATION UNLESS OTHERWISE INDICATED. USE MINIMUM #12 AWG UNLESS OTHERWISE NOTED.

PROVIDE PIGTAILS FOR CONNECTIONS TO DEVICES TO ENSURE THAT LINES AND NEUTRALS ARE NOT OPENED WHEN A FIXTURE OR A DEVICE IS REMOVED FROM THE CIRCUIT.

**14. IDENTIFICATION OF EQUIPMENT:**  
UPDATE EACH LIGHTING AND POWER PANEL DIRECTORY.

ALL EXISTING PANELS TO REMAIN C/W A NEW TYPEWRITTEN CIRCUIT DIRECTORY INDICATING EXISTING AND NEW LOADS.

**15. TESTING:**  
WHEN THE INSTALLATION IS COMPLETED AND READY FOR ACCEPTANCE, CARRY OUT, IN THE PRESENCE OF OWNER, ANY TESTS AS MAY BE DEEMED NECESSARY BY THE OWNER.

**16. EMERGENCY LIGHTING:**  
NEW EXIT SIGN OR EMERGENCY LIGHTING REMOTE HEADS SHALL BE AS NOTED IN THE LIGHTING FIXTURE SCHEDULE AND LEGEND.

WIRING FOR THE SYSTEM SHALL BE NO. 10 AWG MINIMUM OR TO THE MANUFACTURERS RECOMMENDATIONS. D.C. WIRING SHALL BE SEPARATE FROM A.C. WIRING EXCEPT WHEN OTHERWISE PERMITTED BY CODES. PROVIDE WIRING TO THE LED EXIT LIGHTS.

**17. LIGHTING FIXTURES:**  
PROVIDE NEW LIGHTING FIXTURES AS NOTED IN THE LIGHTING FIXTURE SCHEDULE. REMOVE EXISTING LIGHTING FIXTURE SCHEDULE. REMOVE EXISTING LIGHTING INTERFERING WITH THE PROPOSED TENANT IMPROVEMENT TURN OVER TO THE BUILDING OWNER. REFER TO BASE BUILDING LIGHTING PLANS FOR BASE BUILDING DETAILS.

**18. DEVICES:**  
ALL RECEPTACLES SHALL BE SPECIFICATION GRADE STANDARD FACE AND THE FINISH SHALL BE WHITE UNLESS NOTED.

COVER PLATES FOR THE DEVICES SHALL BE BRUSHED ALUMINIUM.

ALL SWITCHES TO BE AS SHOWN ON DRAWINGS. ALL DEVICES TO BE FLUSH MOUNTED IN ALL NEW WALLS AND FLUSH IN EXISTING WALLS AS DIRECTED BY THE CONSULTANT.

**19. AS-BUILT DRAWINGS:**  
PROVIDE ELECTRONIC COPY AND TWO COPIES OF AS BUILT DRAWINGS TO THE OWNER FOR FINAL REVIEW AT COMPLETION OF PROJECT BEFORE THE FINAL CERTIFICATE OF ACCEPTANCE WILL BE ISSUED.

THE AS-BUILT DRAWINGS SHALL BE COMPLETE WITH ALL CHANGE NOTICES, SITE INSTRUCTIONS AND SITE DEVIATIONS.

**20. COMPLETION OF CONTRACT:**  
SYSTEMS SHALL BE COMPLETED, TESTED AND READY FOR USE, WITH ALL EQUIPMENT OPERATING SATISFACTORILY. ALL DEBRIS, TOOLS AND OTHER CONSTRUCTION EQUIPMENT SHALL BE CLEARED FROM THE PREMISES.

PROVIDE A CERTIFICATE OR GUARANTEE OF WORKMANSHIP, MATERIALS AND EQUIPMENT FOR ONE YEAR AFTER COMPLETION OF THE CONTRACT. REPAIR OR REPLACE, WITHOUT EXPENSE TO THE OWNER, ALL DEFECTS DUE TO IMPERFECT MATERIALS OR WORKMANSHIP WHICH APPEAR WITHIN ONE YEAR AFTER ACCEPTANCE OF THE WORK.

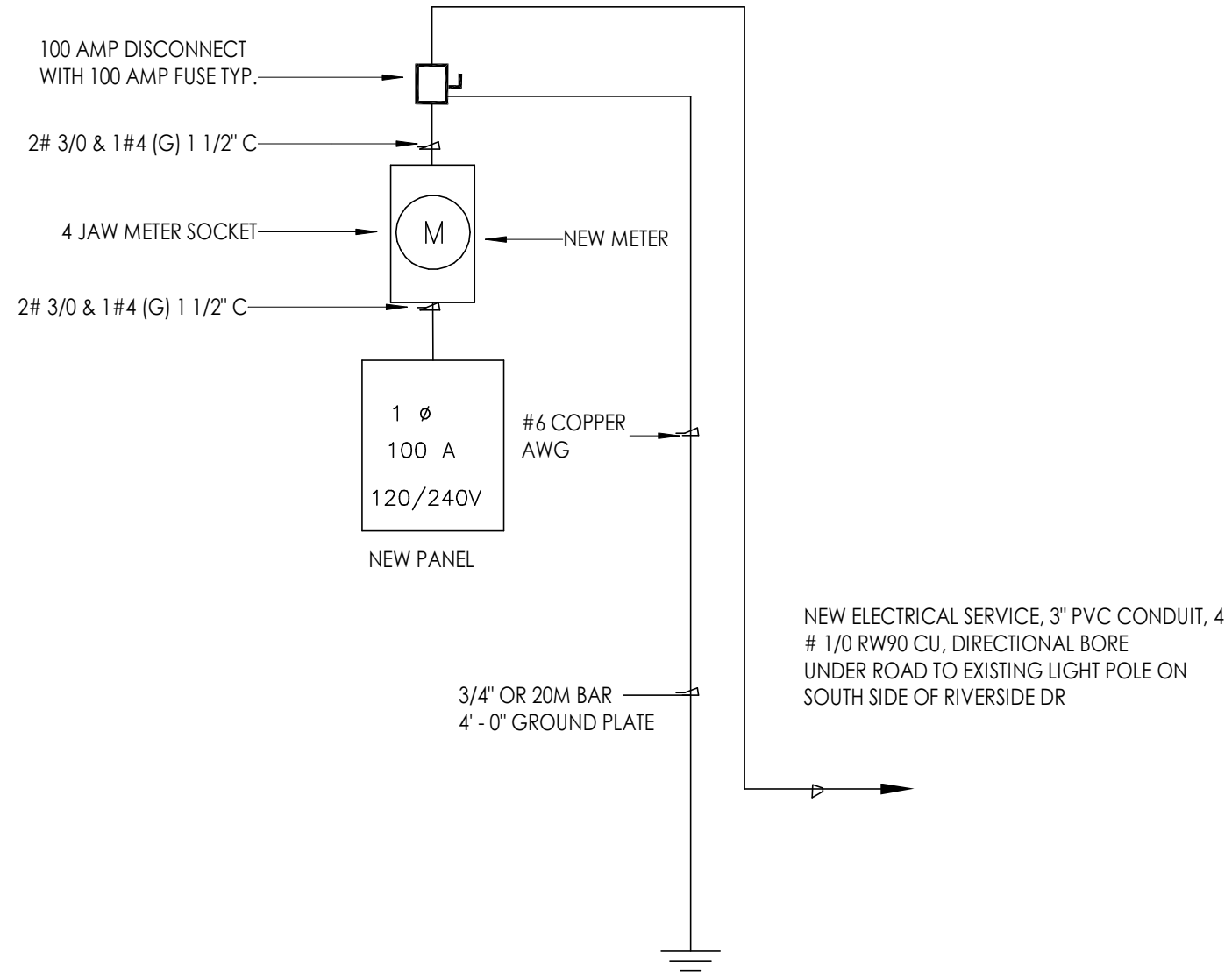
PROVIDE AS-BUILT DRAWINGS AND TWO SETS OF ELECTRICAL DATA MANUALS, DATA MANUALS TO BE COMPLETE WITH THE FOLLOWING:  
-ONE SET OF APPROVED SHOP DRAWINGS.  
-FIRE ALARM VERIFICATION AND TECHNICIANS REPORT.  
-ELECTRICAL INSPECTION AUTHORITY CERTIFICATE.  
-LETTER OF GUARANTEE.  
-ALL REQUIRED DOCUMENTATION REQUIRED BY THE CITY OF WINDSOR TO CLOSE OUT THE PROJECT.

**21. WORK IN EXISTING BUILDING:**  
DISCONNECT AND REMOVE ALL EXISTING SERVICES WHICH ARE ABANDONED. REMOVE ALL CONDUIT WORK THAT IS ABANDONED EXCEPT WHERE FLUSH EMBEDDED IN THE STRUCTURE.

REMOVE FROM THE SITE ALL MATERIALS WHICH ARE NOT TO BE REUSED, UNLESS NOTED AS REMAINING THE PROPERTY OF THE OWNER.

REFER TO BASE BUILDING PLANS FOR DETAILS WITH RESPECT TO EXISTING LIGHTING, POWER, COMMUNICATIONS, BASE BUILDING FIRE ALARM.

SCHEDULE POWER AND LIGHTING SHUTDOWN AS NOT TO INTERFERE WITH BUILDING OPERATION.



1 Riser Diagram  
1" = 20'-0"



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No.	Description	Date
1	ISSUED FOR TENDER	JAN X, 2022

### WASHROOM BUILDING ELIZABETH K PARK

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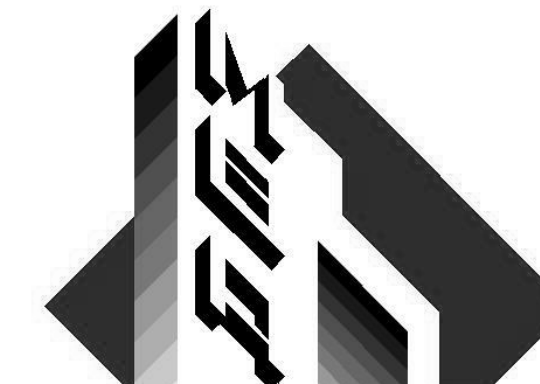
## Specifications

Project number	2104
Date	JULY 2021
Drawn by	MB
Checked by	MB

# E 102

Scale	1" = 20'-0"
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Maged Basilius Architect

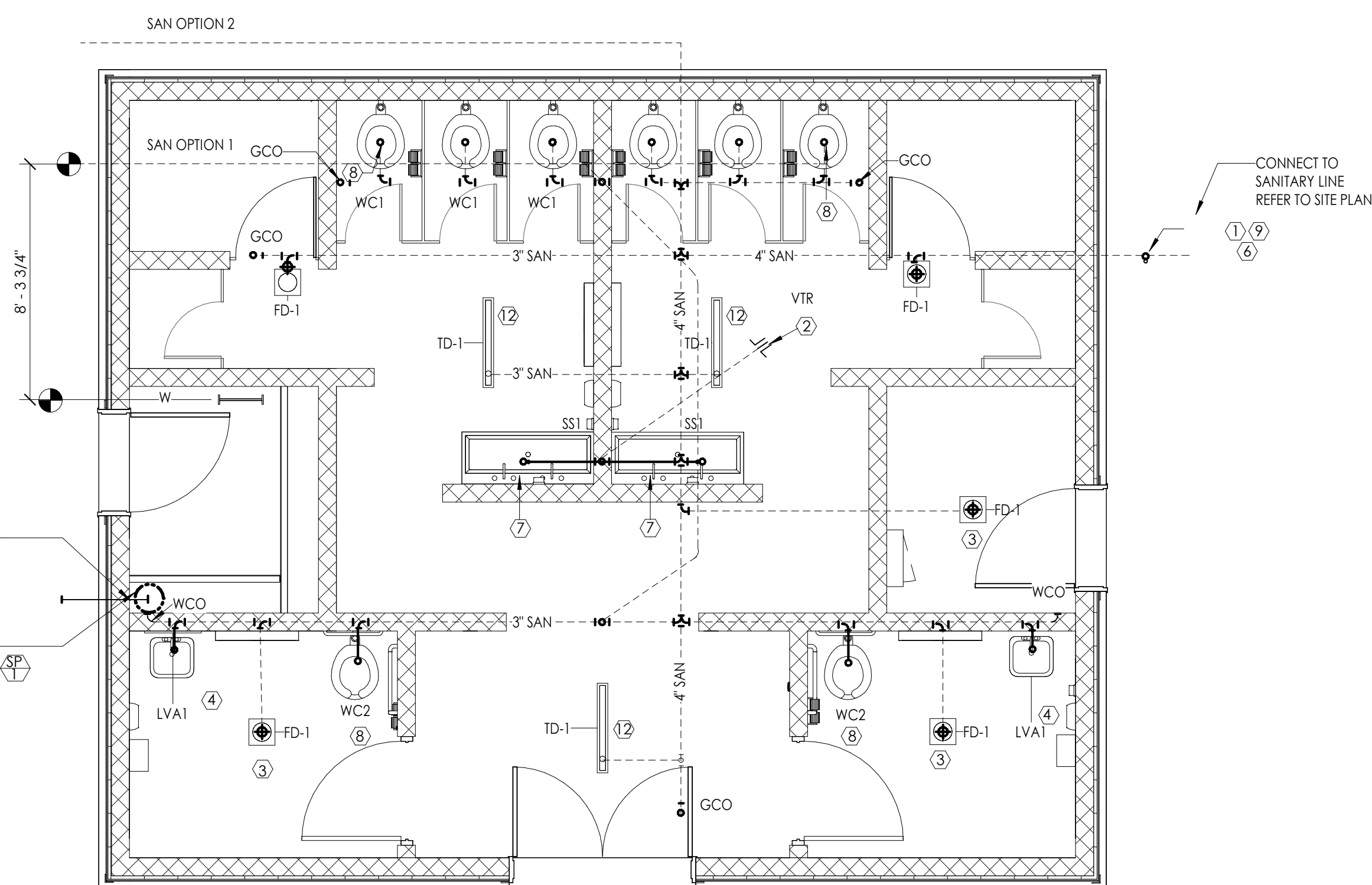
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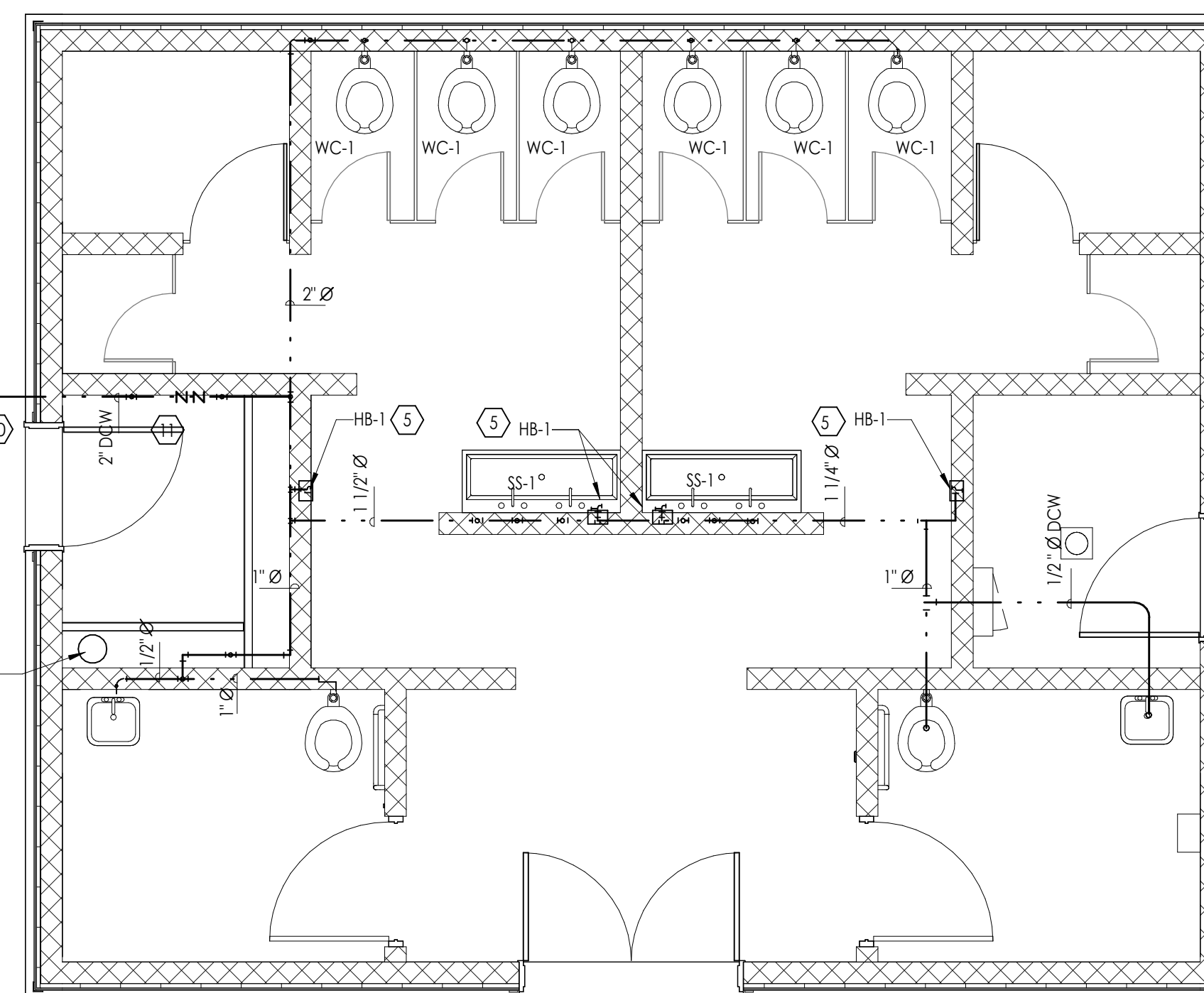


1 First Floor Sanitary & Vent  
1/4" = 1'-0"

PLUMBING AND DRAINAGE KEYNOTES	
①	4" ∅ SANITARY EXISTING
②	3" ∅ NEW VENT THROUGH ROOF
③	NEW FLOOR DRAIN (F.D.)
④	NEW LAVATORY
⑤	NEW HOSE BIB IN RECESSED BOX WITH LOCK
⑥	NEW 4" ∅ SAN
⑦	NEW SINK
⑧	NEW WATER CLOSET
⑨	CONNECT NEW 4" ∅ TO SANITARY AT THIS APPROXIMATE LOCATION.
⑩	NEW 3" ∅ DOMESTIC COLD WATER
⑪	BACK FLOW PREVENTER 38" - 42" FROM FLOOR HEIGHT, ALSO TO HAVE A DRAIN POINT BEFORE THE BACKFLOW PREVENTER
⑫	NEW TRENCH DRAIN

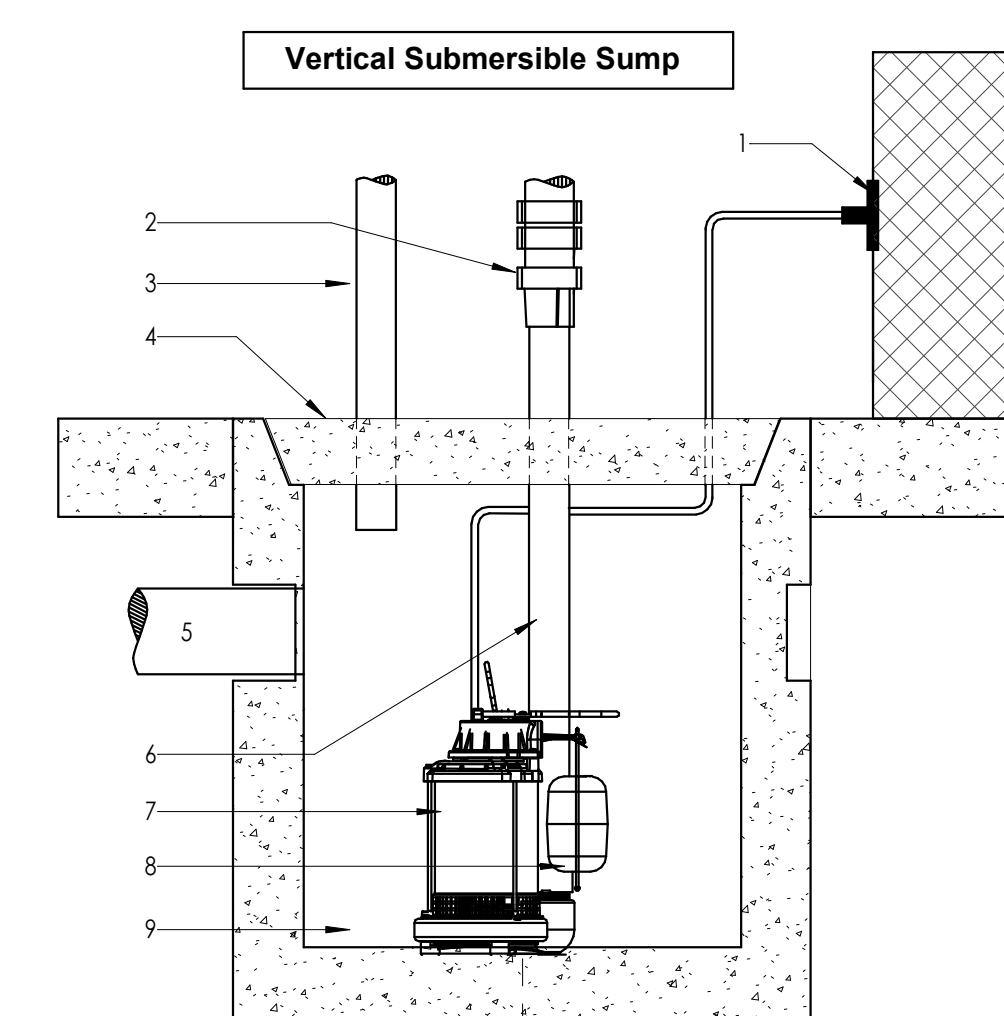
PLUMBING NOTES:  
 1. BARRIER FREE WATER CLOSET SEAT HEIGHT AND HAND OPERATOR SHALL COMPLY WITH 3.8.3.9 OF OBC.  
 2. BARRIER FREE LAVATORIES MOUNTING HEIGHT, SIDE CLEARANCE, UNDER-SINK CLEARANCE AND FAUCET TYPE SHALL COMPLY WITH 3.8.3.11 OF OBC.  
 3. BUILDING WATER SERVICE PIPE SHALL BE EQUIPPED WITH RP-TYPE BACKFLOW PREVENTER PER UTILITY COMPANY REQUIREMENT.  
 4. TEST AND SUBMIT COMPLETED TEST FORMS FOR ALL INSTALLED TESTABLE BACKFLOW PREVENTION DEVICES.  
 5. ALL NEW DOMESTIC WATER AND SANITARY SYSTEMS SHALL COMPLY WITH PART 7 OF OBC AND BE TESTED AND INSPECTED PRIOR TO COVERING.

CONTRACTOR RESPONSIBLE FOR 1ST YEAR WINTERIZATION



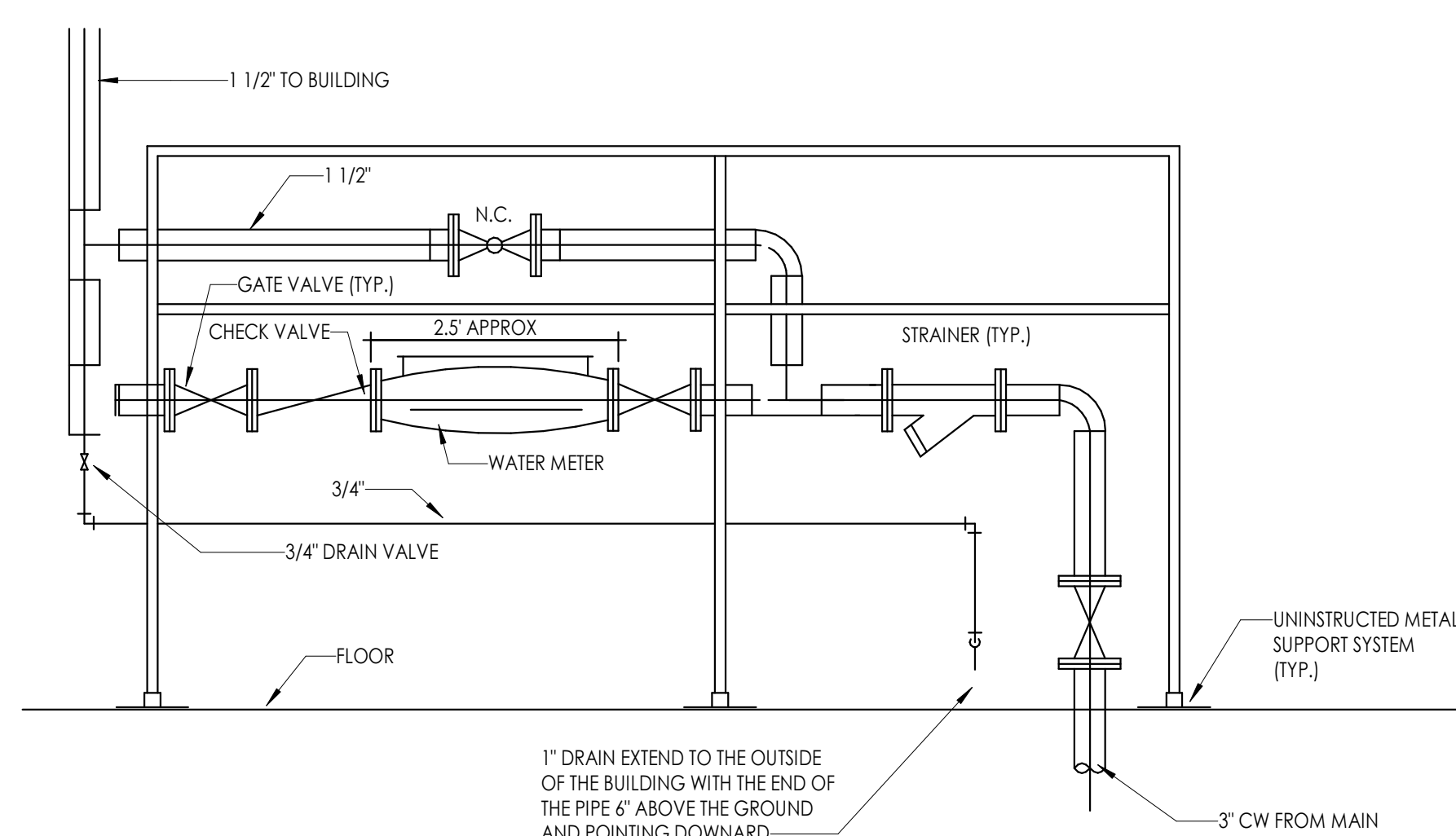
2 First floor - Water  
1/4" = 1'-0"

PROVIDE RP-TYPE BACK FLOW PREVENTER PER UTILITIES COMPANY REQUIREMENT



- |                     |   |
|---------------------|---|
| 1. GFCI OUTLET      | 6. 2" DISCHARGE PIPE                      |
| 2. CHECK VALVE      | 7. SUMP PUMP, MYERS 1/2 HP - 115V - 8.6 A |
| 3. VENT PIPE        | 8. SWITCH                                 |
| 4. GASKET/BASIN LID | 9. CONCRETE PIT 24" X 30" DEEP            |
| 5 PIPE INLET        |   |

3 Sump Pump  
1 1/2" = 1'-0"



4 Water Meter Diagram  
12" = 1'-0"

MECHANICAL NOTES

GENERAL REQUIREMENTS FOR MECHANICAL WORK

- SCOPE OF WORK
  - CONFORM TO THE APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS OF THE CONTRACT.
  - THIS GENERAL SPECIFICATION SHALL APPLY TO AND FORM A PART OF EACH OF THE SECTIONS COVERING MECHANICAL AND ELECTRICAL TRADES WORK.
- EXAMINATION OF SITE AND INFORMATION
  - EACH CONTRACTOR BEFORE TENDERING, SHALL EXAMINE THE SITE, THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND ANY OTHER RELEVANT DOCUMENTS, AND FULLY FAMILIARIZE HIMSELF WITH THE DESIGNER'S INTENT, SO THAT THE TENDER PRICE WILL INCLUDE EVERYTHING NECESSARY FOR THE PROPER COMPLETION OF THE WORK IN ACCORDANCE WITH THE INTENT OF THE DOCUMENTS. OBTAIN THE APPROVAL OF THE ENGINEER, ARCHITECT AND PROJECT MANAGER BEFORE ANY ALTERATIONS TO THE WORK INDICATED.
  - ENSURE THAT ALL PRODUCTS AND MATERIALS NECESSARY FOR THE EXECUTION OF THE CONTRACT CAN BE BROUGHT INTO THE SPACES WHERE THEY ARE TO BE LOCATED, EITHER THROUGH SPECIFIED OPENINGS OR PARTIALLY ASSEMBLED. ANY CUTTING OR RESTORATION WORK REQUIRED, DUE TO FAILURE TO ACCOMPLISH THIS, WILL BE THE RESPONSIBILITY OF THIS SUBCONTRACTOR.
- RELATIONSHIP TO OTHER TRADES
  - THE CONTRACTOR SHALL CONFER WITH OTHER TRADES WORKING IN THE AREA, TO ENSURE THAT HIS INSTALLATION WILL BE THE RESULT OF CO-OPERATION BETWEEN ALL PARTIES. ALL DEVICES MUST BE ACCESSIBLE FOR SERVICE, AND THE RECOMMENDATIONS OF THE EQUIPMENT SUPPLIERS SHALL GOVERN.
  - ENSURE THAT ALL WORK WILL BE INSTALLED WITHIN THE PRESCRIBED LIMITED OF THE BUILDING, SUCH AS CEILING HEIGHTS, AND NOTIFY AND GENERAL TRADE OF ANY REQUIREMENTS FOR INSERTS, SLEEVES, OPENINGS, CURBS AND BASES IN SUFFICIENT TIME TO HAVE THE ITEMS COMPLETED IN THE NORMAL COURSE OF CONSTRUCTION.
  - CONFIRM WITH THE ELECTRICAL TRADE, THE AVAILABLE ELECTRICAL POWER SUPPLY CHARACTERISTICS, BEFORE FINALIZING EQUIPMENT ORDERS. NO COMPENSATION WILL BE ALLOWED TO CHANGE ANY DEVICE DUE TO THIS SUBCONTRACTOR'S FAILURE TO VERIFY THE SUPPLY.
  - ANY CUTTING OR PATCHING REQUIRED, FOR WHATEVER REASON, SHALL BE DONE BY QUALIFIED TRADES PEOPLE IN THE REQUIRED TRADE.
- SHOP DRAWINGS AND ALTERNATIVE EQUIPMENT
  - THIS REVIEW IS FOR GENERAL CONFORMITY ONLY AND DOES NOT RELIEVE THE SUPPLIER AND/OR SUBCONTRACTOR FROM PROVIDING THE NECESSARY PRODUCT (S) TO MEET THE DESIGN INTENT.
  - PROVIDE 8 COPIES OF SUBMITTAL DRAWINGS FOR EACH PIECE OF EQUIPMENT, INCLUDING PUMPS, AC AND AIR HANDLING UNITS, FIXTURES, ETC., TO THE ENGINEER FOR REVIEW. CERTIFY TO THE ENGINEER THAT THE DRAWINGS CORRECTLY IDENTIFY THE EQUIPMENT THAT WILL BE SUPPLIED, THAT THE EQUIPMENT WILL FIT THE SPACE ALLOTTED, AND PERFORM THE SERVICE INTENDED.
  - EQUIPMENT DESCRIBED EITHER GENERICALLY OR BY BRAND NAME IS TO ESTABLISH THE MINIMUM STANDARD REQUIRED FOR THE INSTALLATION. ALTERNATIVE EQUIPMENT MAY BE SUGGESTED BY THE BIDDER, BUT THE EQUIVALENCE SHALL BE DETERMINED BY THE ENGINEER. BIDDERS MUST TENDER ON THE BASIS OF THE SPECIFIED EQUIPMENT, AN IF ALTERNATIVES ARE PROPOSED, THEY WILL BE CONSIDERED ON THEIR OWN MERITS, AFTER THE CLOSE OF TENDERS. ANY LOWERING OF THE PRICE BASED ON ALTERNATIVE SUPPLIERS WILL BE PERMITTED WITH THE SAVINGS BEING PASSED TO THE OWNER.
- REQUIREMENTS OF INSPECTION DEPARTMENTS
  - ALL WORK SHALL COMPLY WITH THE GOVERNING CODES AND LOCAL REQUIREMENTS. ANY ITEMS REQUIRED TO ACCOMPLISH THIS, WHETHER EXPLICITLY NOTED OR NOT, SHALL BE PROVIDED.
  - WHERE THE INSPECTING PERSON REQUESTS ITEMS NOT DEEMED TO BE INCLUDED, THE MATTER SHALL BE IMMEDIATELY REFERRED TO THE ENGINEER FOR A RULING. NO EXTRA WILL BE CONSIDERED IF THE WORK DONE BY THE CONTRACTOR TO SATISFY SUCH A REQUEST, COULD HAVE BEEN AVOIDED BY DISCUSSION BETWEEN THE INSPECTOR AND THE ENGINEER.
  - PROVIDE NOTICE TO INSPECTORS AS REQUIRED FOR THE PROGRESS OF THE PROJECT, AND ENSURE THAT SUCH INSPECTIONS ARE CARRIED OUT, BEFORE WORK IS COVERED.
- CERTIFICATES, PERMITS AND FEES
  - OBTAIN ALL REQUIRED PERMITS, AND PAY ALL INSPECTIONS FEES, EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY.
  - FURNISH TO THE OWNER ANY CERTIFICATES THAT MAY BE NECESSARY AS EVIDENCE THAT THE WORK AS INSTALLED CONFORMS TO ALL THE LAWS AND REGULATIONS OF THOSE AUTHORITIES HAVING JURISDICTION. BEFORE FINAL CERTIFICATES ARE ISSUED, MAKE THESE ALTERATIONS THAT ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, AND ACCEPTED BY THE ENGINEER AS A LAW, OR REGULATION THAT SHOULD HAVE BEEN FOLLOWED BY THE CONTRACTOR.
- GUARANTEE
  - GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR TWO FULL YEARS FROM THE DATE OF CERTIFIED SUBSTANTIAL COMPLETION BY THE OWNER, OR HIS AUTHORIZED AGENT. THIS SHALL NOT SUPERCEDE ANY WARRANTIES FOR SPECIFIC ITEMS OF EQUIPMENT, WHICH MAY BE FOR A LONGER TERM.
  - THE COST OF REPAIR OR DAMAGE TO ANY OTHER WORK, CAUSED BY THE FAILURE OF EITHER MATERIAL OR WORKMANSHIP WITHIN THE PERIOD COVERED BY THE GUARANTEE NOTED IN (A), SHALL BE INCLUDED IN THIS WARRANTY.
  - WHERE EQUIPMENT IS PUT INTO OPERATION PRIOR TO COMPLETION OF THE WORK THE PERIOD OF GUARANTEE COVERING SUCH EQUIPMENT SHALL STILL COMMENCE AS NOTED IN ITEM 7(A) ABOVE. THE PUTTING INTO OPERATION OF ANY EQUIPMENT PRIOR TO COMPLETION OF THE WORK SHALL ONLY BE WITH WRITTEN APPROVAL OF THE ENGINEER AND OWNER. NO EQUIPMENT SHALL BE STARTED UP WITHOUT FIRST ASCERTAINING THAT ALL SYSTEMS AND SERVICES ASSOCIATED WITH ITS OPERATION ARE FUNCTIONING AND THAT RESPONSIBILITIES FOR EQUIPMENT MAINTENANCE HAVE BEEN ARRANGED.

- DRAWINGS
  - THE DRAWINGS PRODUCED BY THE ENGINEER ARE GENERALLY SCHEMATIC IN NATURE AND ARE ISSUED FOR THE EXPRESS PURPOSE OF OBTAINING TENDERS FOR THE WORK AND FOR THE ERECTION OF THE SYSTEMS DESCRIBED IN THE SCOPE OF WORK TO BE DONE. UNLESS SPECIFICALLY SHOWN, THE RESPONSIBILITY FOR THE INSTALLATION AND WORKABILITY OF THE SYSTEM (S) REST WITH THE CONTRACTOR.
  - WHERE NECESSARY, THE CONTRACTOR SHALL PREPARE INTERFERENCE DRAWINGS TO ENSURE THAT THE INSTALLATION WILL BE COORDINATED WITH ALL SERVICES TO BE INSTALLED IN THE AREA. THE ENGINEER AND OTHER PROFESSIONALS OF RECORD MAY HAVE TO APPROVE OF THESE PROPOSALS.
- RESPONSIBILITY AND LIABILITY
  - THIS CONTRACTOR IS RESPONSIBLE FOR THE LAYING-OUT OF HIS WORK, AND IT SHALL BE DONE IN COOPERATION WITH ALL OTHER TRADES WORKING IN THE AREA. THE WORK OF THESE OTHER SUBTRADES SHALL BE PROTECTED FROM DAMAGE BY THIS SUB'S FORCES, OR RESTITUTION MADE FOR ANY DAMAGE.
  - NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOR INCONSISTENCIES AND ABIDE BY THE DECISION OF THE ENGINEER. FAILURE TO NOTIFY THE ENGINEER WILL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY TO PROVIDE A FULLY WORKING SYSTEM.
- CLEAN-UP AND PROTECTION
  - MAINTAIN A CLEAN WORKING AREA TO MINIMIZE DANGER TO OTHERS ON SITE, AND PROTECT ALL WORK IN PROGRESS FROM DAMAGE DUE TO CONSTRUCTION WORK, WEATHER, OR FROM UNDUE DIRT ENTRY.
- OPERATOR TRAINING AND INSTRUCTIONS
  - PROVIDE COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT SUPPLIED, COMPLETE WITH PARTS LISTS AND THE NAMES OF THE SUPPLIERS.
  - PROVIDE A WRITTEN DESCRIPTION OF THE SYSTEMS AND THE OPERATING CHARACTERISTICS, FOR USE BY THE SYSTEM OPERATORS/MAINTENANCE PERSONNEL, AND TO INSTRUCT THE USERS HOW TO SET THERMOSTATS, FAN CONTROL SWITCHES, ETC. CONSULT THE ENGINEER WHEN PREPARING THIS INSTRUCTION SHEET, TO ENSURE THAT THE SYSTEM WILL BE OPERATED AS INTENDED.
  - PROVIDE A BALANCING REPORT FOR ALL AIR AND HYDRONIC SYSTEMS, WHICH HAS BEEN PREPARED BY AN INDEPENDENT TESTING COMPANY APPROVED BY THE ENGINEER.
  - TOUCH UP OR REPAINT AS NECESSARY, ALL SCRATCHES OR OTHER FINISH DEFECTS, THAT HAVE OCCURRED ON ANY DEVICES SUPPLIED UNDER THIS CONTRACT.
- EXTRAS AND CREDITS
  - WHERE EXTRA OR DELETED WORK IS REQUESTED, THIS CONTRACTOR SHALL BE PERMITTED A MARK-UP OF 10% OVERHEAD AND 10% PROFIT BASED ON LABOR COST AND TRADE COST FOR ALL MATERIAL. WHERE EXTRAS AND CREDITS OCCUR SIMULTANEOUSLY, THE CREDIT SHALL BE DEDUCTED FROM THE EXTRA, PRIOR TO THE APPLICATION OF THESE MARK-UPS. CREDITS FOR DELETED WORK WILL NOT BE SUBJECT TO ANY MARK-UP AS IT IS ASSUMED THAT THE OVERHEAD, LABOUR AND PROFIT ON THESE DELETED MATERIALS WAS INCLUDED AT THE TIME THE WORK WAS BID.
- ELECTRICAL WIRING AND CONTROLS
  - ALL POWER WIRING FOR ALL MECHANICAL EQUIPMENT SHALL BE DONE BY DIVISION 16 - ELECTRICAL, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
  - THE MECHANICAL DIVISION SHALL PROVIDE ALL STARTERS, RELAYS, CONTROL DEVICES, AND ANY BUILT-IN SAFETY SWITCHES. THE ELECTRICAL WILL PROVIDE ALL FIELD-MOUNTED SAFETY DISCONNECTS.
  - THE MECHANICAL DIVISION SHALL PROVIDE ALL CONNECTIONS AND WIRING FOR CONTROLS, AND INTERLOCKS.
  - ALL ELECTRICAL DEVICES SHALL BE CANADIAN WHERE POSSIBLE AND ALL MOTORS UP TO 1/3 HP SHALL BE SINGLE PHASE, LARGER MOTORS 3 PHASE, EXCEPT AS NOTED. CONFIRM ALL ELECTRICAL CHARACTERISTICS ON SITE.
- COMPLETION, TESTING, BALANCING AND ADJUSTMENTS
  - CERTIFY TO THE ENGINEER THAT ALL SYSTEMS HAVE BEEN COMPLETELY INSTALLED PER THE DOCUMENTS, SET IN OPERATION, AND ADJUSTED TO THE REQUIREMENTS OF THE PROJECT.
  - REPLACE ALL FILTERS, AND ANY INDICATOR LIGHTS THAT HAVE BURNED OUT, AND LUBRICATE ALL ROTATING DEVICES IMMEDIATELY PRIOR TO TURN OVER TO THE OWNER OR HIS AGENT.
  - CONTRACTOR TO PROVIDE AN ELECTRONIC COPIES OF AS BUILT DRAWINGS UPON THE PROJECT COMPLETION
- ACCESS DOORS AND FIRE STOPPING
  - PROVIDE ADEQUATELY SIZED ACCESS DOORS TO PERMIT SERVICING OF ANY MECHANICAL DEVICE, CLEANOUT, CHECK VALVE, ETC. THE DOORS WILL BE INSTALLED BY THE TRADE PROVIDING THE SURFACE WHERE THE DOOR IS TO BE LOCATED. THIS CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ACCURATELY LOCATING THE DOOR, CONSIDERING ALL OBSTRUCTIONS.
  - PROVIDE SLEEVES FOR PIPES PASSING THROUGH WALLS AND FLOORS WHERE PIPE MOVEMENT IS POSSIBLE. USE SCHEDULE 40 PIPE SECTIONS FOR MASONRY WALLS, LARGE ENOUGH TO ACCOMMODATE PIPE INSULATION. FLOOR SLEEVES THROUGH DRAINABLE FLOORS SHALL EXTEND UP ABOVE THE FINISHED FLOOR.
- FIRE STOP ALL SLEEVES PASSING THROUGH FIRE SEPARATIONS WITH AN APPROVED FIRE STOPPING MATERIAL, AND MAKE WATERPROOF. PROVIDE ESCUTCHEONS FOR ALL EXPOSED PENETRATIONS THROUGH WALLS, AND FLOORS AS DIRECTED.
- WORKMANSHIP
  - ONLY FIRST CLASS WORKMANSHIP WILL BE ACCEPTED, NOT ONLY WITH REGARDS TO SAFETY, EFFICIENCY, DURABILITY, ETC., BUT ALSO WITH REGARDS TO THE NEATNESS OF DETAIL. ALL PIPE WORK SHALL BE LINED UP PARALLEL, OR AT RIGHT ANGLES TO THE BUILDING WALLS WHERE POSSIBLE. EQUIPMENT MUST BE ACCURATELY SET, PLUMB AND LEVEL, AND ALL HANGERS MUST BE IN TRUE VERTICAL ALIGNMENT. IN GENERAL, THE ENTIRE WORK SHALL BE FIRST CLASS AND WORKMAN LIKE AND PRESENT A NEAT CLEAN APPEARANCE UPON COMPLETION.

No.	Description	Date
1	ISSUED FOR TENDER	JAN. X, 2022

WASHROOM BUILDING  
ELIZABETH K PARK

First Floor - Plumbing & Drainage

Project number	2104
Date	JULY 2021
Drawn by	M. B.
Checked by	T. M.

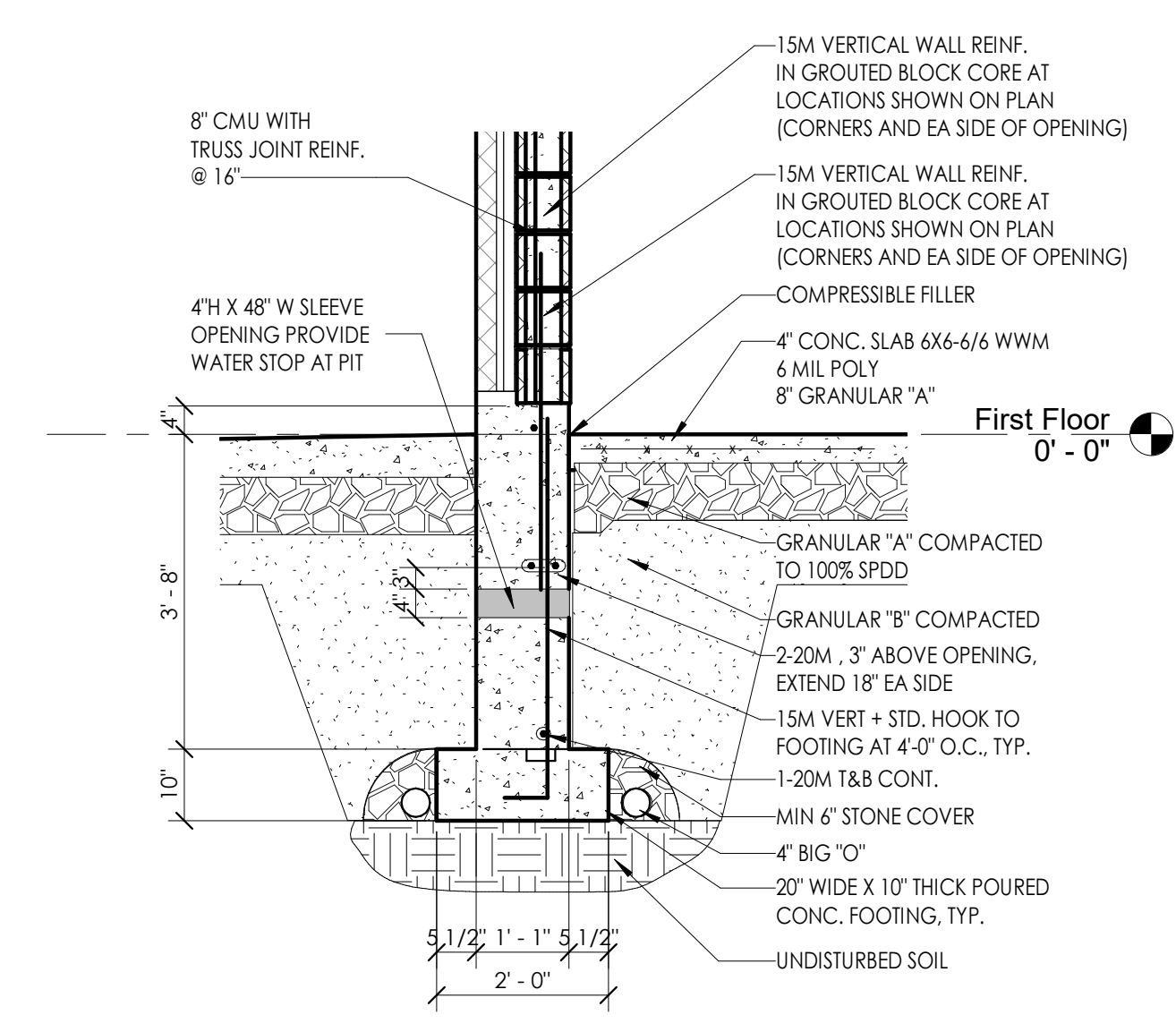
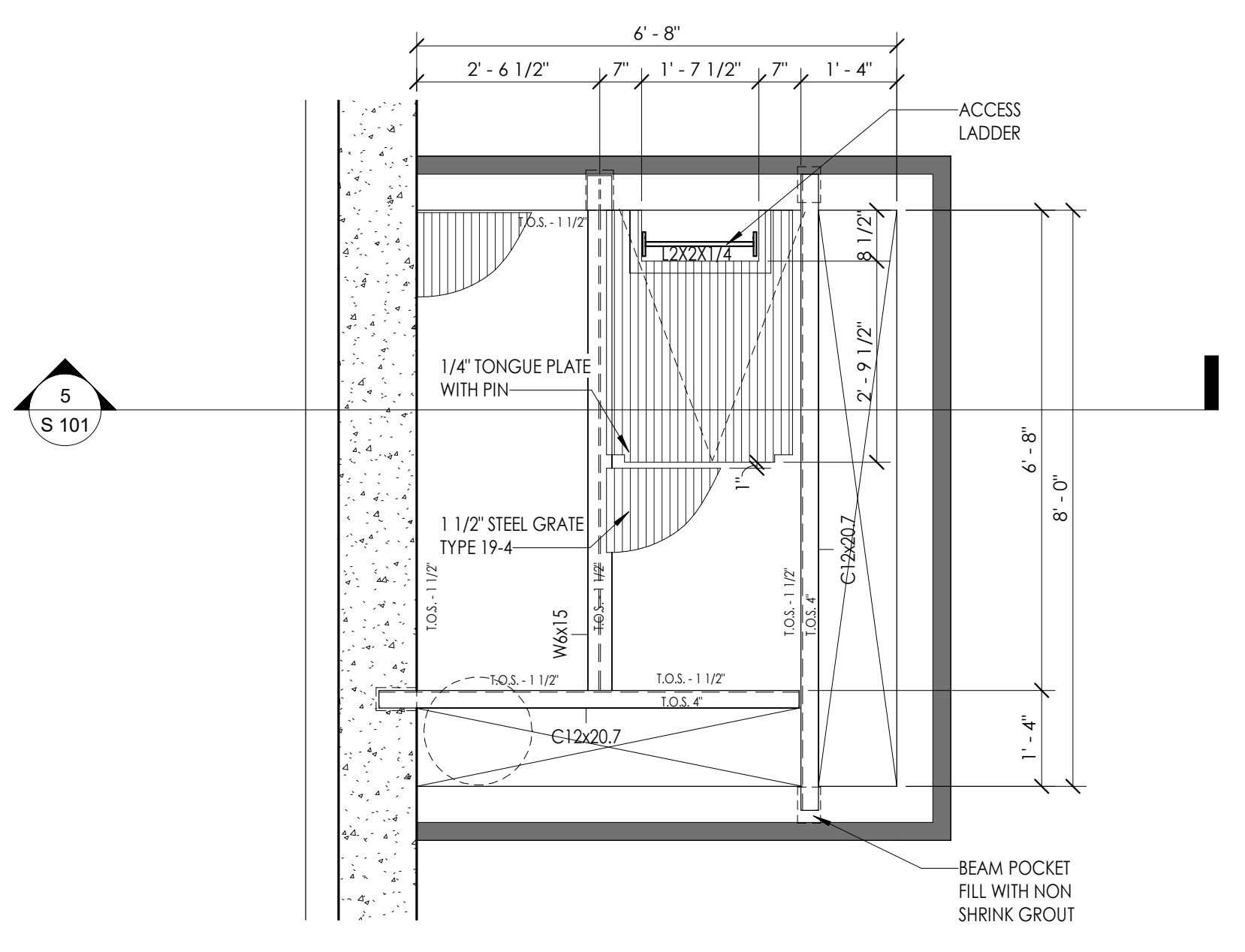
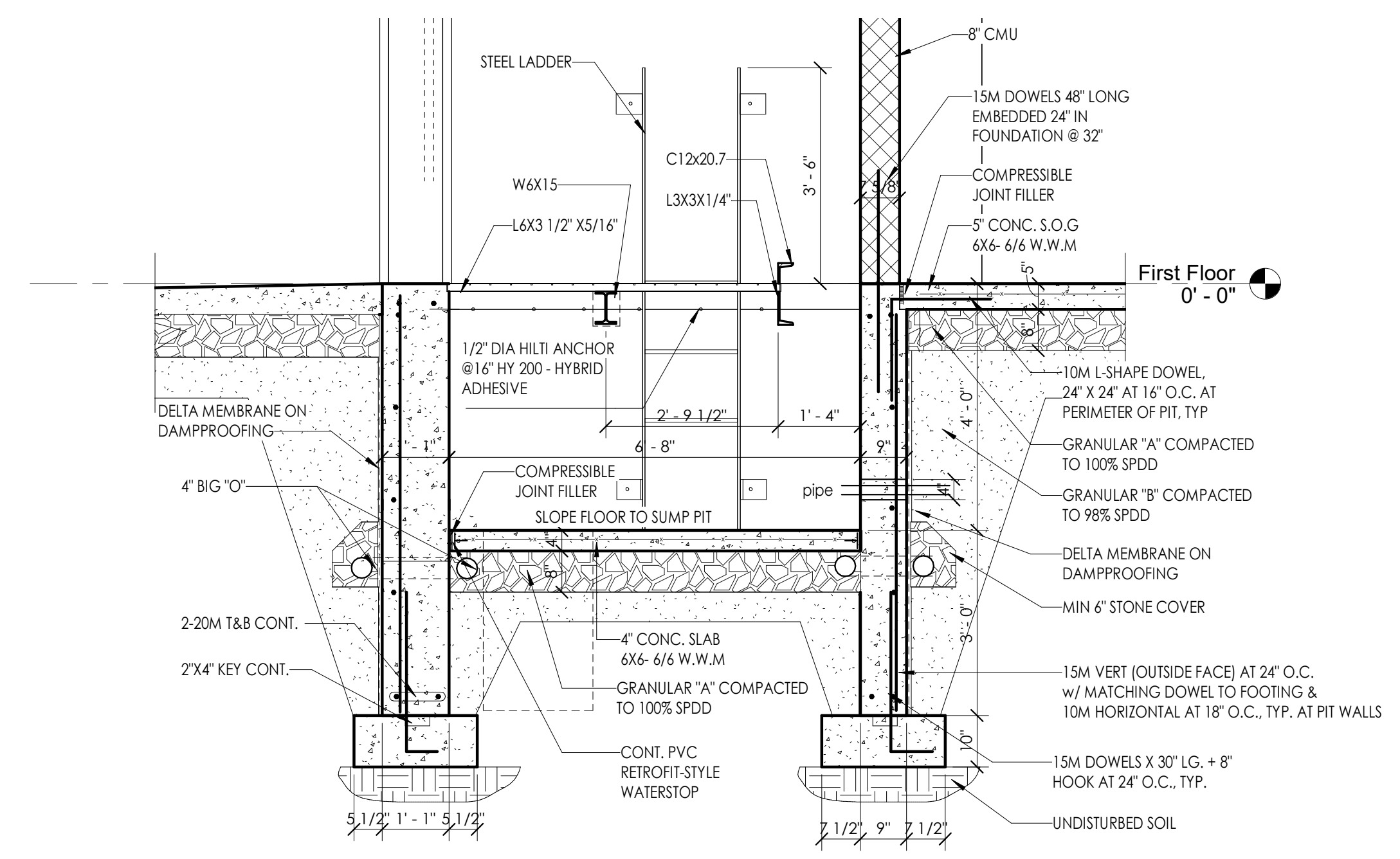
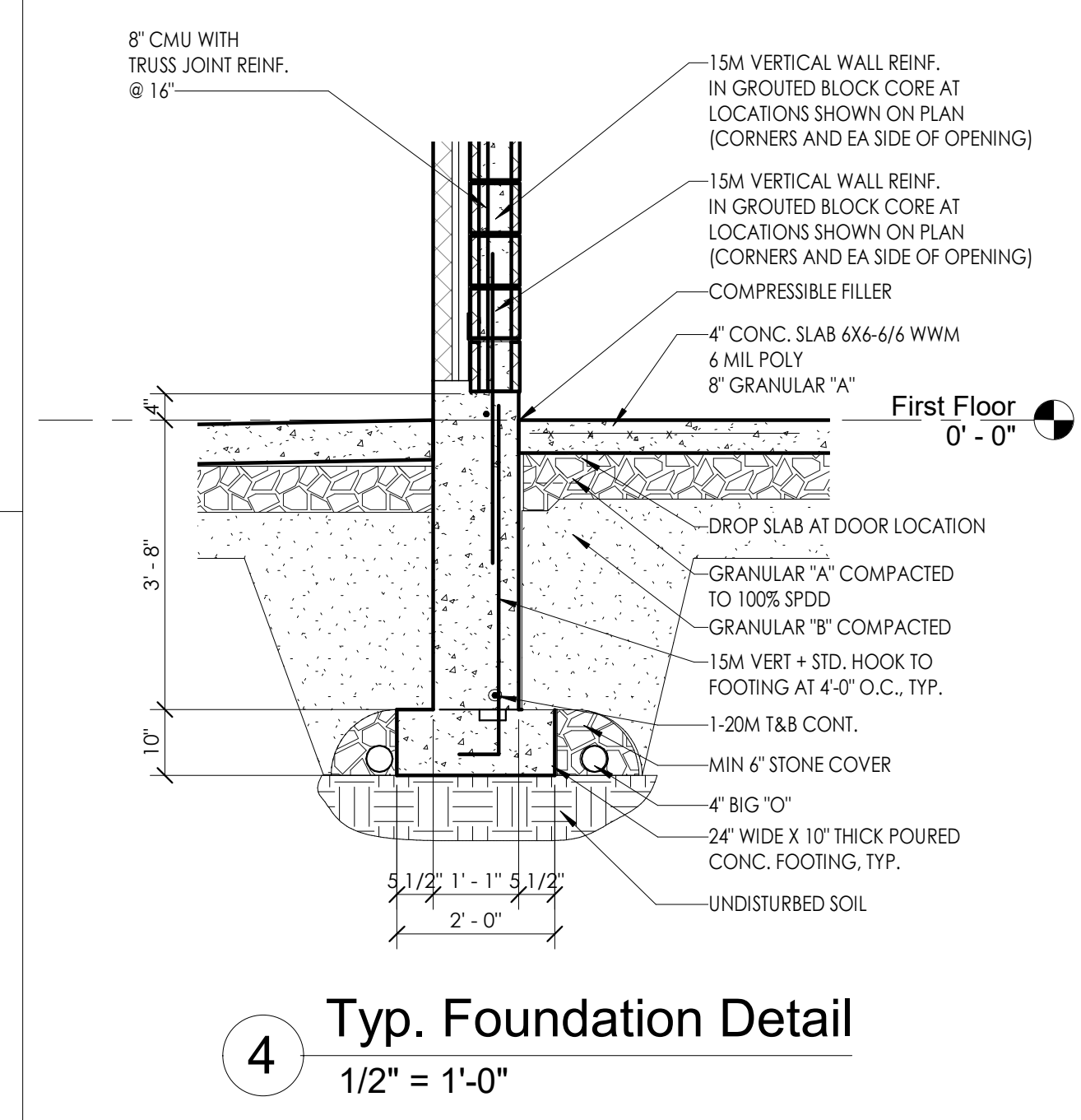
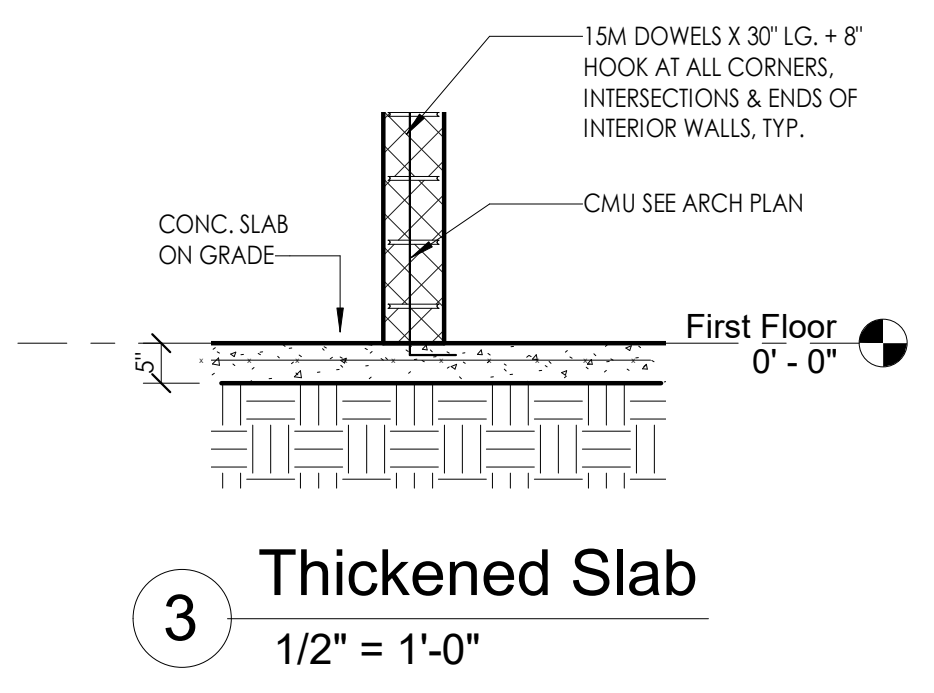
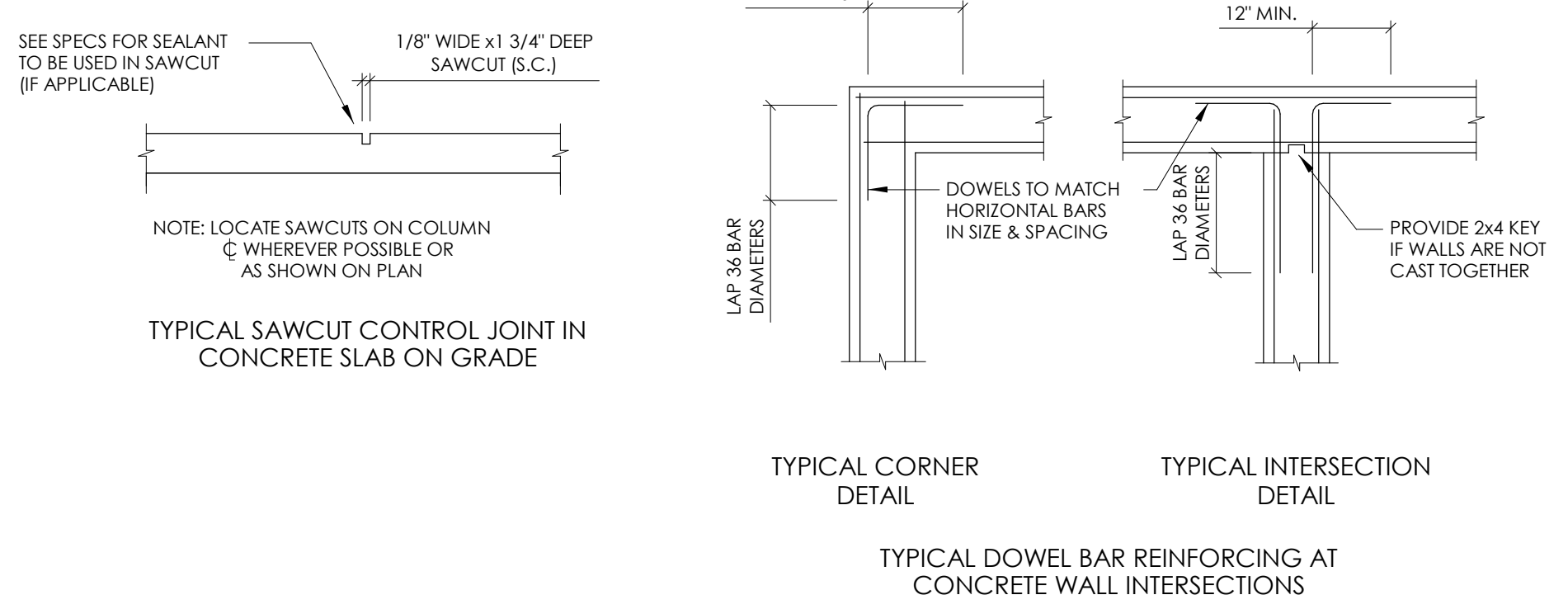
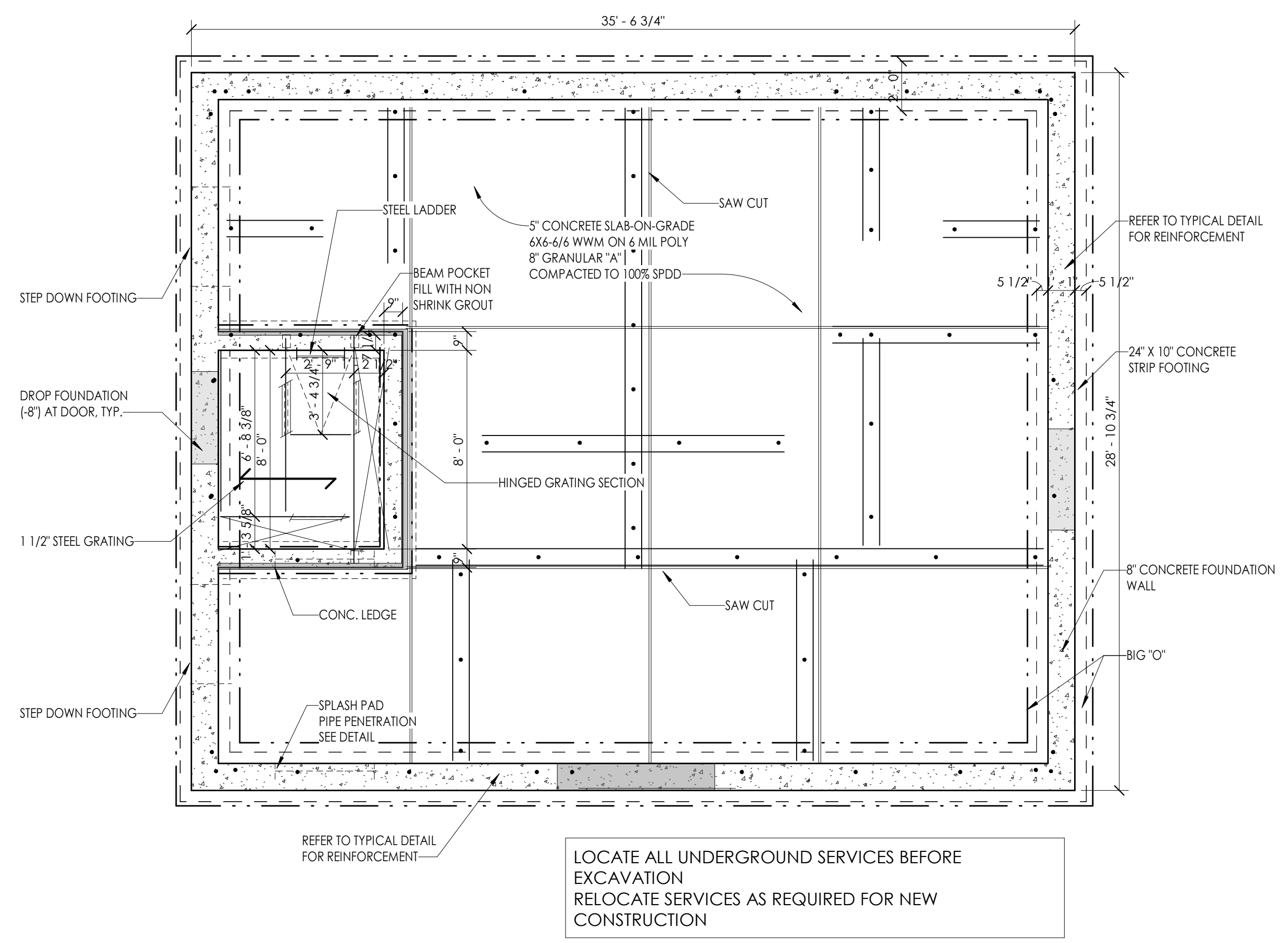
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No.	Description	Date
1	ISSUED FOR TENDER	JAN X, 2022

**WASHROOM BUILDING  
ELIZABETH K PARK**

**Foundation Plan & Details**

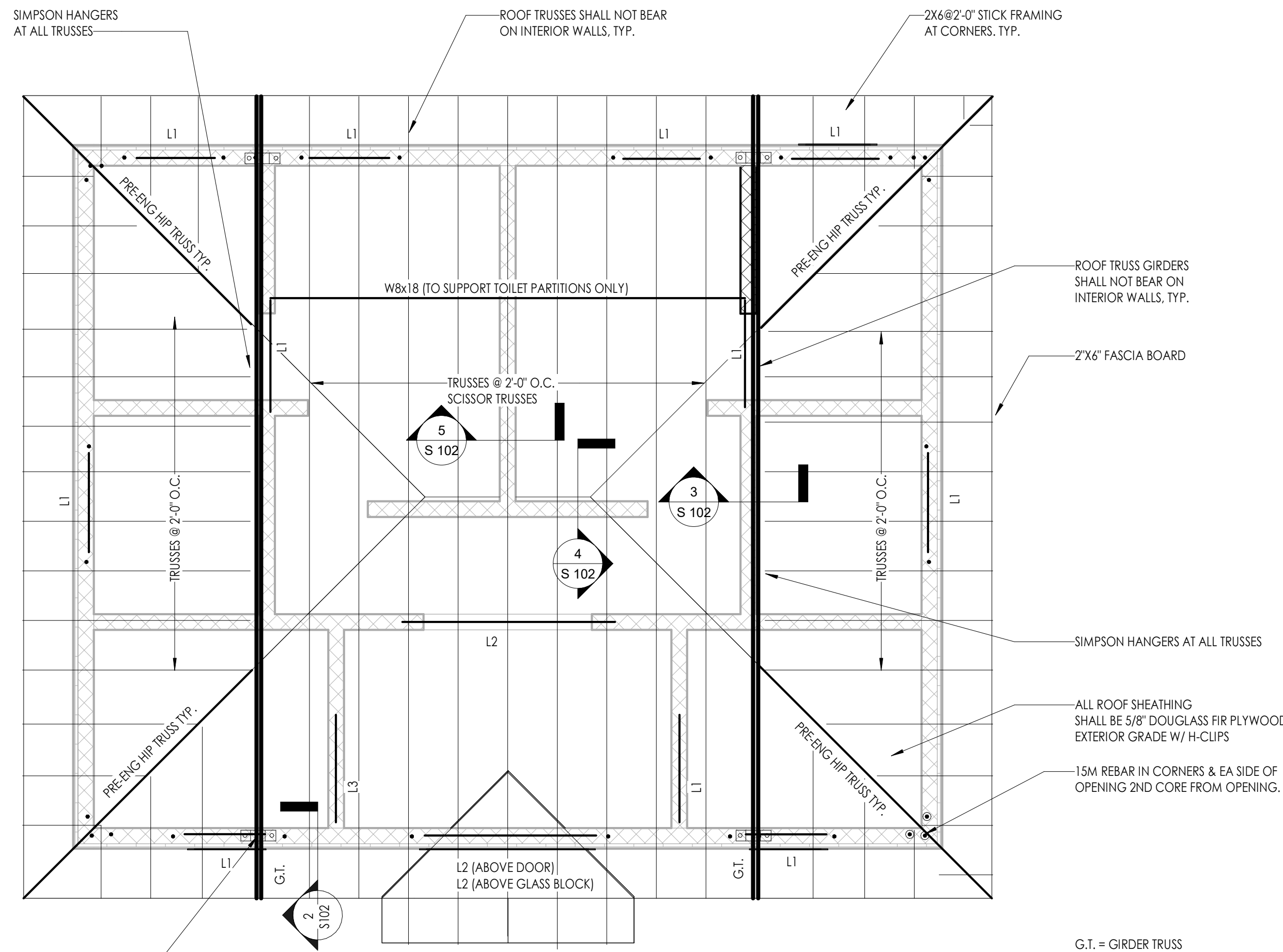
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Scale As indicated

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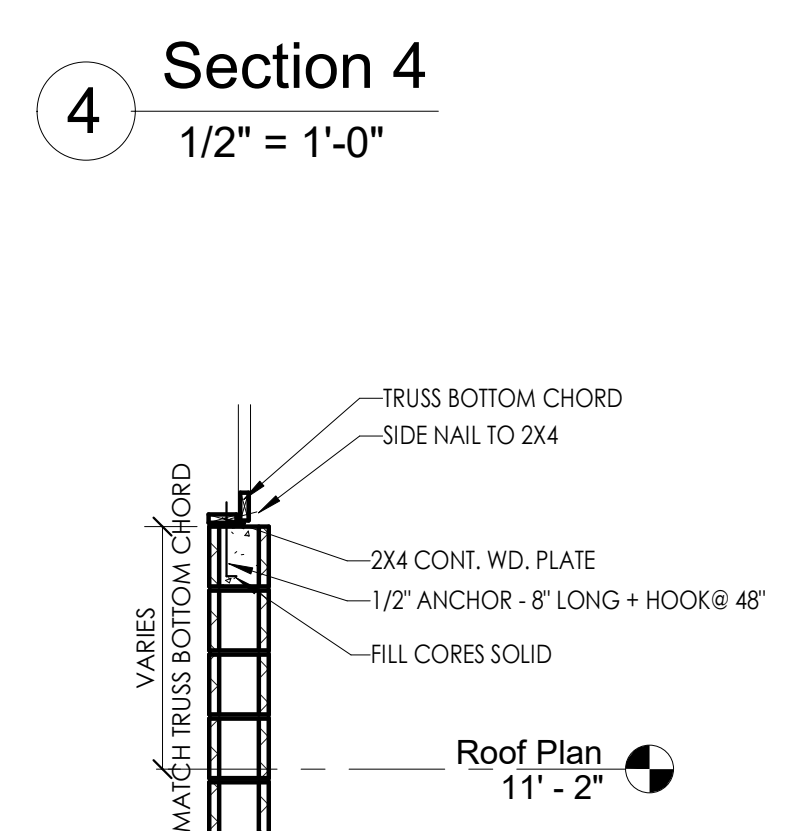
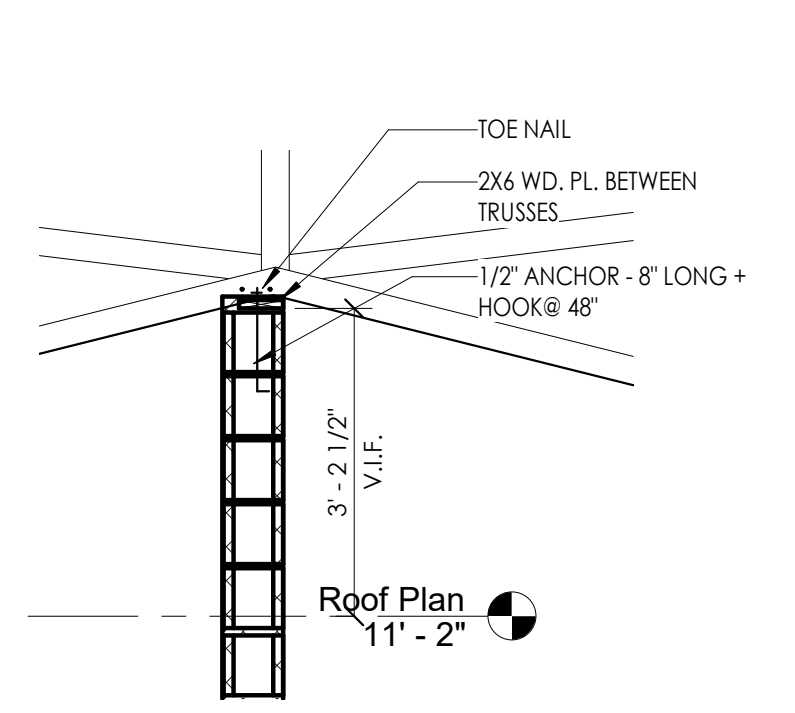
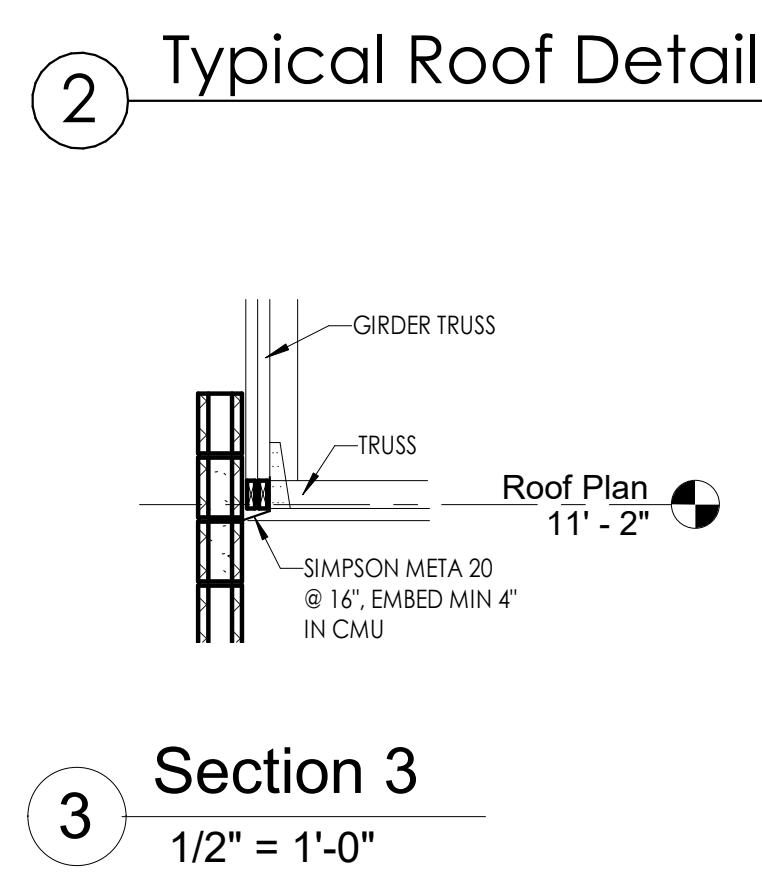




### Roofing Framing Plan

1/4" = 1' - 0"

SPECIFIED ROOF LOADING TABLE	
ITEM	
<b>TRUSS LOADING:</b>	
TOP CHORD (INCLUDES: 5/8" SHEATHING, TRUSS, ASPHALT SHINGLES)	14 psf
BOTTOM CHORD (INCLUDES: INSULATION, CEILING, MECH. + ELEC.)	10 psf
TOTAL DEAD LOAD	24 psf
<b>LIVE LOADS:</b>	
TOP CHORD - SNOW	22 psf
BOTTOM CHORD	10 psf
TOTAL LIVE LOAD	32 psf
TOTAL LOAD	56 psf
<ul style="list-style-type: none"> <li>ALL LOADS ARE UNFACTORED SPECIFIED LOADS</li> <li>MIN. CONCENTRATED LIVE LOAD APPLIED OVER 2'-6" X 2'-6" AREA = 300 LBS</li> <li>CONCENTRATED LIVE LOAD APPLIED AT ANY POINT ON THE BOTTOM CHORD = 300LBS</li> </ul>	
DESIGN PARAMETERS: UNFACTORED WIND UPLIFT = 20 psf UNFACTORED MIN. DEAD LOAD = 14 psf LIVE LOAD DEFLECTION = L/300 I <sub>s</sub> =1.0; U <sub>1s</sub> =1.0; S <sub>1s</sub> =0.90; S <sub>s</sub> =0.80; S <sub>r</sub> =0.4	
WIND AND EARTHQUAKE PARAMETERS FOR DESIGN SHALL BE IN ACCORDANCE WITH OBC 112 USING PARAMETERS FOR WINDS: ASSUMED SITE CLASS D - STIFF SOIL	



- UNTEL SCHEDULE THIS SHEET:**
- L1 2-L3 1/2" X 3 1/2" X 1/4"  
 L2 2-L5 X 3 1/2" X 5/16" LLV
- UNTEL SCHEDULE:**
- REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ALL WALL OPENINGS AND PENETRATIONS THAT ARE NOT IDENTIFIED ON THE STRUCTURAL UNTEL PLANS. THE STEEL CONTRACTOR SHALL SUPPLY UNTELS FOR SUCH OPENINGS ACCORDING TO THE INFORMATION BELOW.
  - 1) 8" CONCRETE BLOCK
  - MASONRY OPENING: SECTION:  
UP TO 30" 2-3 1/2" X 3 1/2" X 1/4" L'S  
30" TO 72" 2-5" X 3 1/2" X 5/16" L'S (LLV)
  - 2) ALL LOOSE UNTELS, BEARING PLATES, ETC. SHALL BE INSTALLED BY THE MASONRY CONTRACTOR.
  - 3) ALL L'S TO BE LONG LEG VERTICAL U.N.O.
  - 4) ALL UNTELS TO HAVE 8" BEARING U.N.O.
  - 5) ALL UNTELS TO BEAR ON SOLID COURSING (TWO COURSES GROUTED SOLID) WHERE BEARING PLATES ARE NOT REQUIRED U.N.O.
  - 6) REFER TO ARCHITECTURAL DRAWINGS FOR ALL UNTEL ELEVATIONS, LOCATIONS AND GALVANIZING REQUIREMENTS.

- FOUNDATIONS**
- All footings are designed for an assumed maximum soil pressure of S<sub>1s</sub> = 2000 psf; U<sub>1s</sub> = 3000 psf on approved undisturbed native soil. Geotechnical Consultant to review initial founding elevations and verify bearing capacity prior to the contractor proceeding with excavation or foundation construction.
  - All footing excavations are to be inspected by the Soils Consultant prior to placing of concrete. Notify the geotechnical consultant a minimum of 24 hours in advance of time of inspection.
  - Excavate first for those footings shown at the deepest elevations, working up to the highest elevations.
  - Protect existing foundations from loss of support during construction of new footings.
  - All footings subject to frost action shall be carried down a minimum of 4'-0" below finished grade.
  - If soil conditions or special job conditions require lowering of footings advise the Soils Consultant before proceeding.
  - Soil supporting footings and slabs shall be protected from freezing before and after concrete is placed.
  - Backfill exterior walls with free draining granular material. Interior material shall be as noted on the drawings.
  - Backfill and compact walls below grade shall be done in 12" lifts and compacted with water.
  - For all interior slab on grade areas, pre-laid existing sub-grade to identify soft spots. Remove soft material and replace with compacted Granular A or B compacted to 98% SPDD.
  - Place 8" Granular "A" compacted to 100% SPMD on Granular "B" compacted to 98% SPMD on proof rolled and approved subgrade under all slabs on grade. Place rigid insulation on compacted granular material prior to placing slab on grade. All reinforcement and mesh shall be chaired using plastic reinforcement chairs.

- STRUCTURAL STEEL**
- Submit one PDF copy of all shop drawings to the Consultants for review.
  - Fabrication and erection of structural steel shall be in accordance with CAN/CSA-S16.1-09.
  - All structural steel shall conform to CAN/CSA-G40.21-04 type 350W except as noted.
  - Hollow structural sections shall conform to CAN/CSA-G40.21-04 type 350W, Class C.
  - Base plates for columns and bearing plates for beams shall conform to CAN/CSA-G40.21-04 type 300W or better unless noted.
  - All welding shall be done by an organization fully approved by the Canadian Welding Bureau under CSA-W47.1-03 in Division 1 or 2 **AT THE TIME OF TENDERING**. Welding and welding materials shall conform to CSA-W59.03.
  - Sections not rolled in CAN/CSA-G40.21-04 type 350W shall conform to or exceed the requirements of ASTM Standard A36.
  - The fabricator shall note the size and type of bolts and welds used in structural connections on the shop drawings.
  - All structural steel connections other than simple shear connections shall be designed and sealed by a Professional Engineer licensed in the province of Ontario.
  - All structural steel shall be sufficiently straight that variations cannot be determined with the unaided eye. All structural steel shall be thoroughly cleaned of all loose mill scale, dirt, oil, or other foreign matter before shop painting. Shop paint shall conform to CAN/CSB 1.40-97.
  - Steel directly exposed to weather or as noted on the drawings shall be Hot Dip Galvanized (HDG).
  - Where Hot Dip Galvanizing (HDG) is specified it shall be in accordance with CAN/CSA-G164-092 (minimum zinc coating 400 gsm).
  - Structural steel to be encased in concrete, facing surfaces of slip-resistant connections and adjacent to areas to be field welded, shall not be painted.
  - Where it is necessary to provide holes for pipes, conduits, etc. in the webs of beams or columns in the field, the contractor whose trade requires the openings shall be responsible for reinforcing these members to the approval of the Consultants. Flanges of steel beams or columns shall not be cut unless approved by the Consultants.
  - Steel lintels shall have a minimum bearing length of 8". Lintels made up of two angles shall be welded together with a minimum 3/16"x2" weld top and bottom at 24" c.c. Galvanised steel shall be painted brown colour.
  - Where the edges of suspended concrete slabs bear on steel beams, anchors shall be welded to the beams at 24" intervals and embedded in the concrete. Anchor size shall be 1/2"x1.5"x12" long with a 2" hook.
  - Where block or brick masonry passes a steel beam or abuts or passes a steel column, provide hot dip galvanized or stainless steel (type 304) masonry anchors as detailed on the drawings.

- CONCRETE**
- Submit one pdf copy of all shop drawings to the Consultants for review.
  - All concrete work has been designed in accordance with CAN3-A23.3-04.
  - Concrete requirements are as follows:
- | Mix Location             | Min. Strength @ 28 Days | Slump (mm) | Air Content |
|--------------------------|-------------------------|------------|-------------|
| Footings                 | 25 MPa                  | 80 +/- 10  | -           |
| Foundation Walls & Piers | 25 MPa                  | 100 +/- 20 | 3% - 6%     |
| Inferior S.O.C.*         | 30 MPa                  | 100 +/- 20 | -           |
| Exterior Concrete        | 32 MPa                  | 100 +/- 20 | 5% - 8%     |
| Ext. Concrete at Grade   | 32 MPa                  | 100 +/- 20 | 5% - 8%     |
- \* Finish shall be as per architectural drawings or machine troweled finish if not otherwise specified on the architectural drawings.
- Reinforcing steel requirements are as follows:
- | Location or Size | Min. Yield Strength | Lap Length | Remarks |
|------------------|---------------------|------------|---------|
| All              | 400 MPa             | Class B    | -       |
- Detailed and placing of all reinforcing steel shall be in accordance with The Reinforcing Steel Institute of Canada (RSIC) "Manual of Standard Practice".
  - All concrete materials and methods of concrete construction shall be in accordance with CAN/CSA-A23.1-09.
  - Testing of concrete shall comply with the requirements of CAN/CSA-A23.2-09. Notify materials consultant and structural engineer a minimum of 24 hours prior to concrete placement for concrete testing and reinforcement review.
  - Lap all temperature reinforcing with Class B splice lengths.
  - Concrete protection to reinforcement unless noted otherwise (in.):  
 Concrete deposited against earth \_\_\_\_\_ 3"  
 Formed concrete exposed to weather or in contact with earth \_\_\_\_\_ 2"  
 SOG Concrete deposited against vapour barrier \_\_\_\_\_ 2"
  - Provide sufficient support bars on high chairs, slab bolsters, and other accessories to maintain the reinforcing steel in the required positions with proper clearances before and during placing of concrete. Tie bars at all intersections. All slab-on grade concrete reinforcement shall be chaired. See architectural and mechanical details for placement of heating tubing.
  - All openings for mechanical and electrical trades shall be approved by the Consultants for size and location before placement of concrete.
  - Add 2-15 bars top and bottom of perimeter of all openings in concrete slabs and extend bars 24" past opening each side, unless otherwise noted.
  - Add 1-15 bar each face of perimeter of all openings in concrete walls and extend bars 24" past opening each side, unless otherwise noted.
  - Embedment of conduits and pipes shall be in accordance with the requirements of CAN3-A23.3-09.
  - Masonry anchors shall be Hot Dip Galvanized after fabrication or stainless steel (type 304).

- MASONRY**
- All masonry has been designed in accordance with CSA-S304.1-09.
  - The owner or builder shall obtain engineering inspection of the masonry construction and testing of mortar cubes in accordance with CSA-A179-04 (R2009), as a condition of the structural design.
  - Materials used in masonry construction shall conform to Section 5 of CAN3-S304.1-09.
  - Connectors for masonry shall conform to CAN3-A370-04 (R2009) and be Hot Dip Galvanized after fabrication or stainless steel (type 304). Masonry anchors shall meet all seismic requirements of the OBC.
  - Construction of masonry shall conform to the appropriate requirements of CAN3-A371-04 (R2009).
  - All clay brick masonry units shall comply with the requirements of CAN/CSA-A82-06 (R2011).
  - All concrete block masonry units shall comply with the requirements of CAN3-A165-04 (R2009). Refer to the drawings for block classifications. Unless noted otherwise the minimum compressive strength of concrete block masonry units shall be 15 MPa on the net area.
  - All physical properties of concrete block masonry units shall be in accordance with Ontario Concrete Block Association standard metric size block.
  - The contractor shall supply the Consultants with certification from the brick and block suppliers indicating conformance to the drawings and specifications.
  - Mortar types as referred to on the structural drawings shall be in accordance with CSA-A179-04 and as follows:
- | Type of Mortar | Min. Avg. Comp. Field Strength @ 28 Days |
|----------------|--|
| M              | 14.0 MPa Block Fill                      |
| S              | 10.0 MPa Loadbearing Masonry             |
| N              | 4.0 MPa Masonry Veneer                   |
- Build all walls simultaneously, unless detailed otherwise on the structural drawings.
  - All brick masonry units shall be laid with full head and bed joints.
  - All block masonry units shall be laid with full head joints, and full bed joints under the full bearing areas of the face shells, and under webs surrounding those cells to be filled with grout.
  - The maximum thickness of a mortar joint in load-bearing masonry shall be 1/2".
  - The intersection of all loadbearing masonry walls shall be bonded using true masonry bond. See structural drawings for bonding details other than true masonry bond.
  - Block masonry units supporting steel beams or joists shall have their voids filled with "M" type mortar or equivalent strength concrete. Fill voids of two supporting courses by a minimum of two block widths.
  - To ensure proper drainage, the cavity in a cavity wall or a veneer wall shall be kept free of mortar droppings.
  - Frozen materials or materials containing ice shall not be used in masonry.
  - Masonry shall not be laid when the temperature of the outside air is below 4 degrees Celcius, unless means approved by the Consultants are provided to heat the masonry materials, and protect the completed work.
  - Calcium chloride or any admixture containing calcium chloride shall not be used in any mortar for this project.
  - Uncompleted masonry exposed to the weather shall be covered on the top surface with a waterproof material except when construction is in progress.
  - The contractor shall be responsible for providing adequate temporary bracing for all loads to which the masonry work may be subjected, including wind, until such time as the permanent supports are in place and the masonry work can safely support the design loads.
  - Beams shown on plans are to have 8" bearing unless noted on plans. Provide full beam bearing on bearing plates.
  - All lintels shown on plans are located in walls immediately below that framing level. All lintels shall be hot-dipped galvanized.
  - Unless noted otherwise, minimum beam bearing plates to be 5.5"x1/2"x8" on 6" walls or 7.5"x1/2"x8" on 8" or thicker walls. Set in grout bed on solid or filled masonry minimum 16" deep x 32" wide.
  - Minimum column base plates 10"x5/8" x 10" unless noted otherwise.
  - Infill solid around all beam bearings with solid masonry to maintain full wall section.

- WOOD FRAMING**
- The structural design of the building is in conformance with the Ontario Building Code (OBC), latest edition.
  - All wood and wood components have been designed in accordance with CSA-086-09.
  - All construction to comply with applicable sections of the current Ontario Building Code. For timber framing and connections not specifically noted, refer to OBC Part 9 requirements.
  - Joists and built-up beams (lintels) shall be No. 2 grade S-P-F or better.
  - Studs and built-up columns shall be construction grade S-P-F or better.
- PREFABRICATED WOOD TRUSSES**
- Truss supplier to be responsible for truss design including layout and connections to structure.
  - Design to resist all loads indicated on the drawings including net wind uplift where applicable, for the specified service condition.
  - Submit shop drawings (for each truss type including a framing plan) per layout on roof plan for review by the Consultant prior to fabrication.
  - Shop drawings to show location and number of lateral braces.
  - All drawings to be sealed by a Professional Engineer including framing plan.
  - Roof truss design to comply with Part 4 of the current OBC and CAN3-086-09 commercial quality.
  - Every wood roof truss shall be anchored with 18 ga. galvanized rafter ties to resist wind uplift loads as calculated by the truss designer.
  - Every Girder truss (GT) must be anchored to solid grouted and reinforced masonry reinforced to the top of foundation wall. The girder truss (GT) designer must specify this anchor to match his/her design uplift loading.
  - Design all timber in accordance with CAN3-086-09.
  - The contractor shall provide all necessary bridging, bracing, supplementary framing and truss anchors as required to satisfy all design requirements.
  - The contractor shall also supply and install adequate bracing to trusses and the building frame to resist all wind and lateral loads during and after the erection, until such time as the permanent bracing and sheathing is in place.

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No.	Description	Date
1	ISSUED FOR TENDER	JAN X, 2022

## WASHROOM BUILDING ELIZABETH K PARK

### Roof Framing, Sections & Details

Project number	2104
Date	JULY 2021
Drawn by	M. B.
Checked by	P. A.

# S 102

Scale As indicated