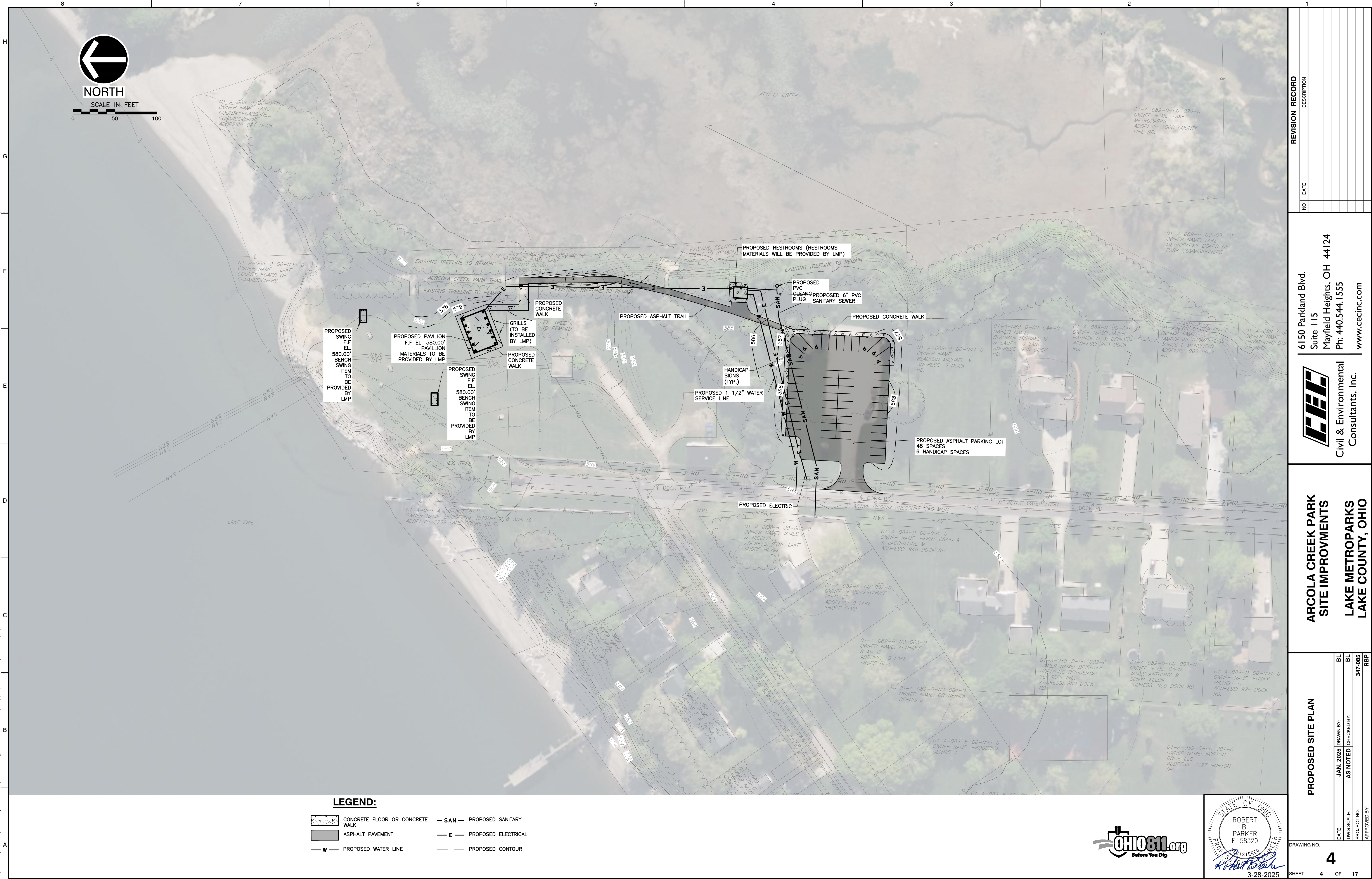



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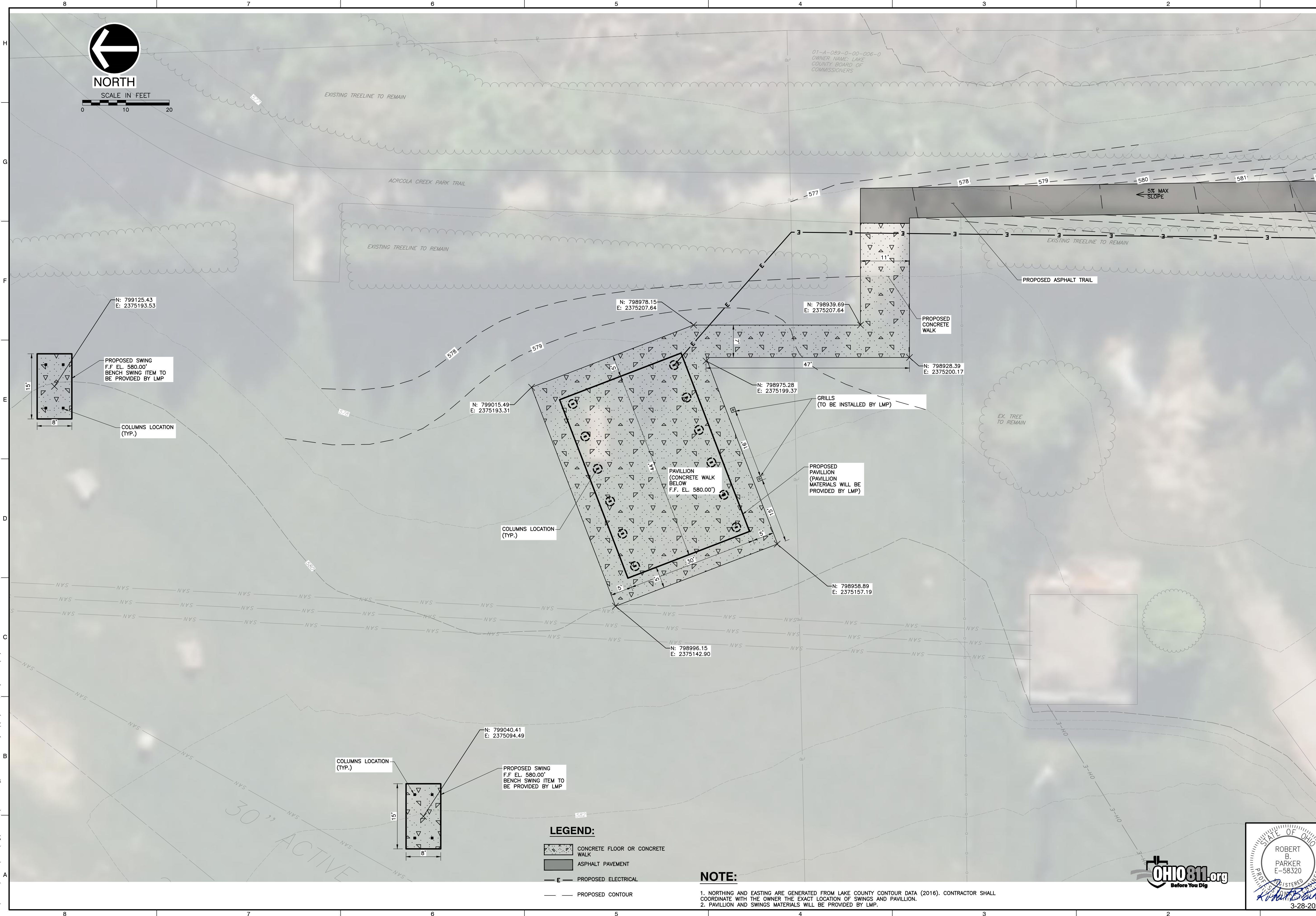
6150 Parkland Blvd.
Suite 115
Mayfield Heights, OH 44124
Ph: 440.544.1555
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**Civil & Environmental Consultants, Inc.**

ARCOLA CREEK PARK SITE IMPROVMENTS LAKE METROPARKS LAKE COUNTY, OHIO

PROPOSED SITE PLAN	
DATE: JAN. 2025	DRAWN BY: BL
DWG SCALE: AS NOTED	CHECKED BY: BL
PROJECT NO: 347-085	APPROVED BY: RBP

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REVISION RECORD	
NO	DATE

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Civil & Environmental
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**ARCOLA CREEK PARK
SITE IMPROVMENTS**

**LAKE METROPARKS
LAKE COUNTY, OHIO**

PAVILLION SITE PLAN

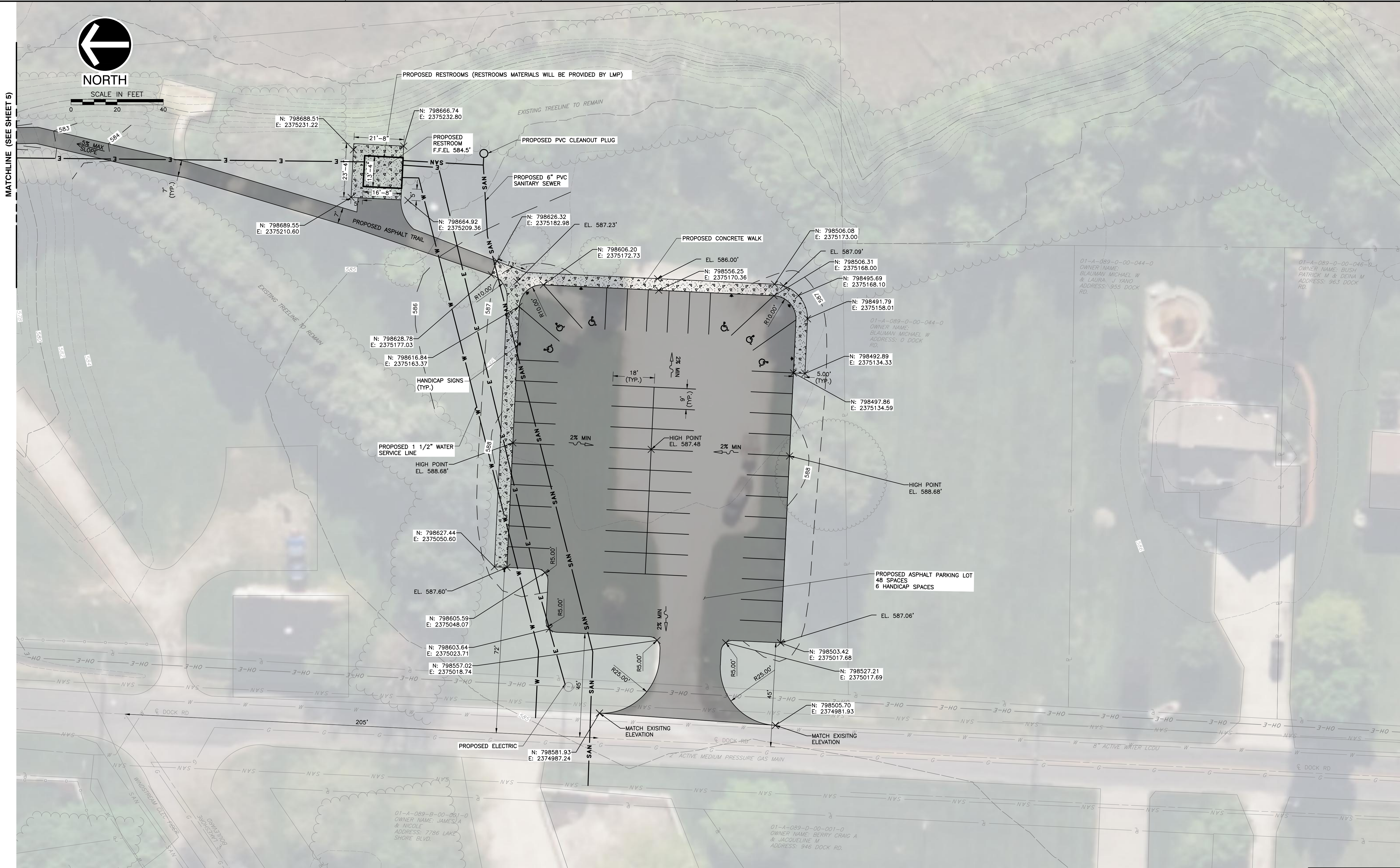
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SHEET 5 OF 17

DATE: JAN. 2025 DRAWN BY: BL
DWS SCALE: AS NOTED CHECKED BY: BL
PROJECT NO: 347-085
APPROVED BY: RBP

STATE OF OHIO
ROBERT B. PARKER
E-58320
3-28-2025

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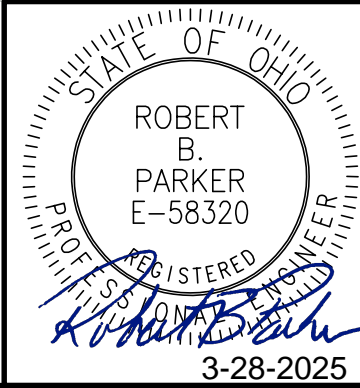


LEGEND:

- | | | | |
|--|---------------------------------|--|---------------------------|
| | CONCRETE FLOOR OR CONCRETE WALK | | — SAN — PROPOSED SANITARY |
| | ASPHALT PAVEMENT | | — E — PROPOSED ELECTRICAL |
| | — W — PROPOSED WATER LINE | | — — PROPOSED CONTOUR |

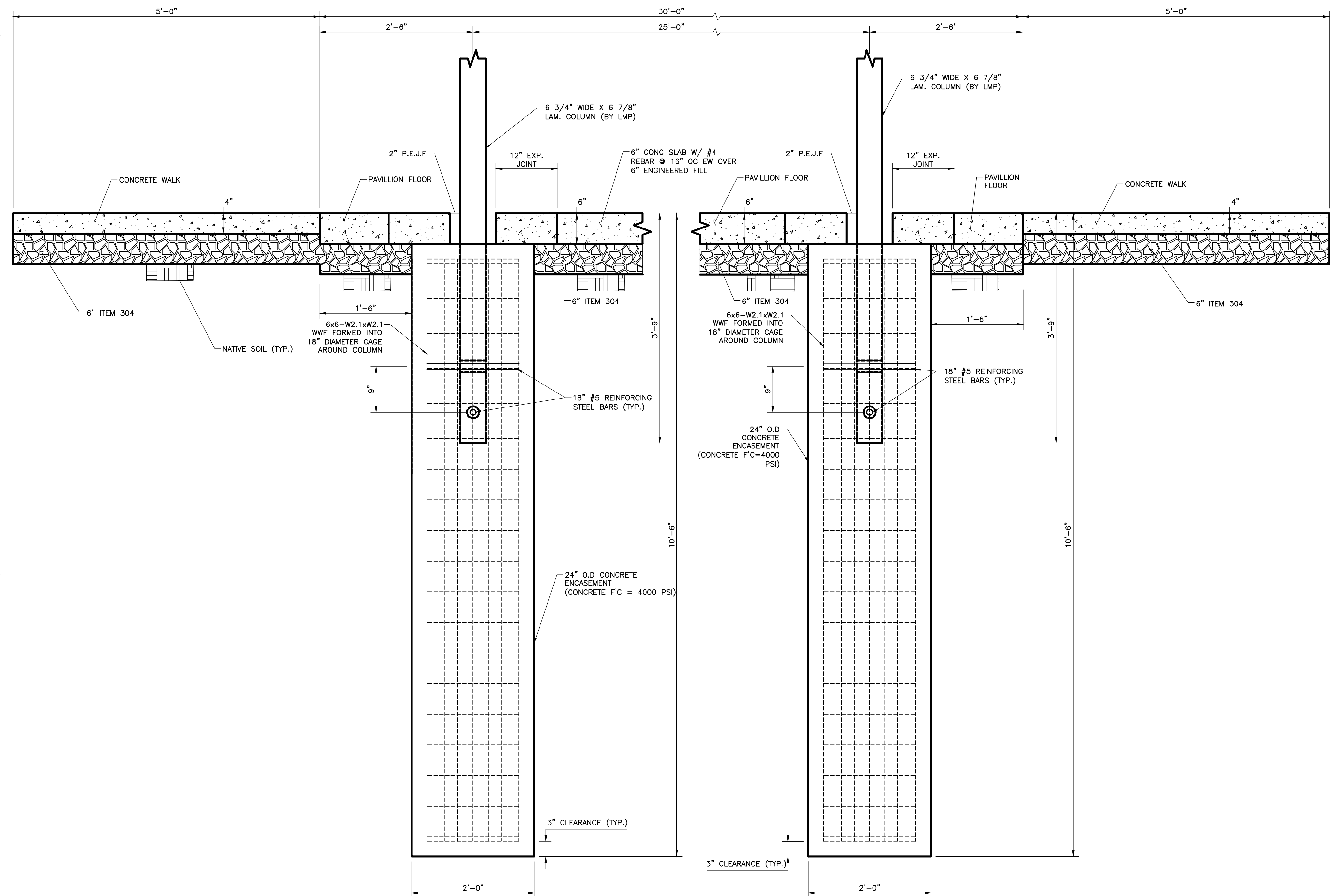
NOTE:

- NORTHING AND EASTING ARE GENERATED FROM LAKE COUNTY CONTOUR DATA (2016). CONTRACTOR SHALL COORDINATE WITH THE OWNER THE EXACT LOCATION OF SWINGS AND PAVILLION.
- RESTROOMS BUILDING MATERIALS WILL BE PROVIDED BY LMP.



PARKING LOT SITE PLAN		ARCOLA CREEK PARK SITE IMPROVMENTS LAKE METROPARKS LAKE COUNTY, OHIO		6150 Parkland Blvd. Suite 115 Mayfield Heights, OH 44124 Ph: 440.544.1555 www.cecinc.com		REVISION RECORD	
DATE:	JAN. 2025	DRAWN BY:	BL	NO.	DATE	DESCRIPTION	
DWG SCALE:	AS NOTED	CHECKED BY:	BL				
PROJECT NO.	347-085	APPROVED BY:	RBP				
DRAWING NO. 6				SHEET 6 OF 17			

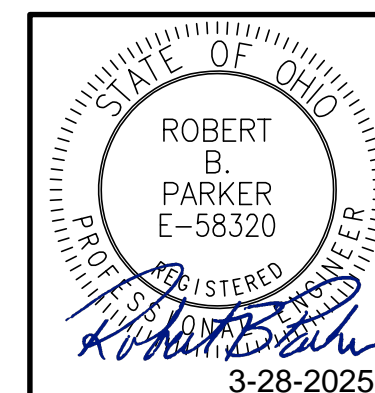
SCALE: 1" = 5'




SCALE: 1" = 1'

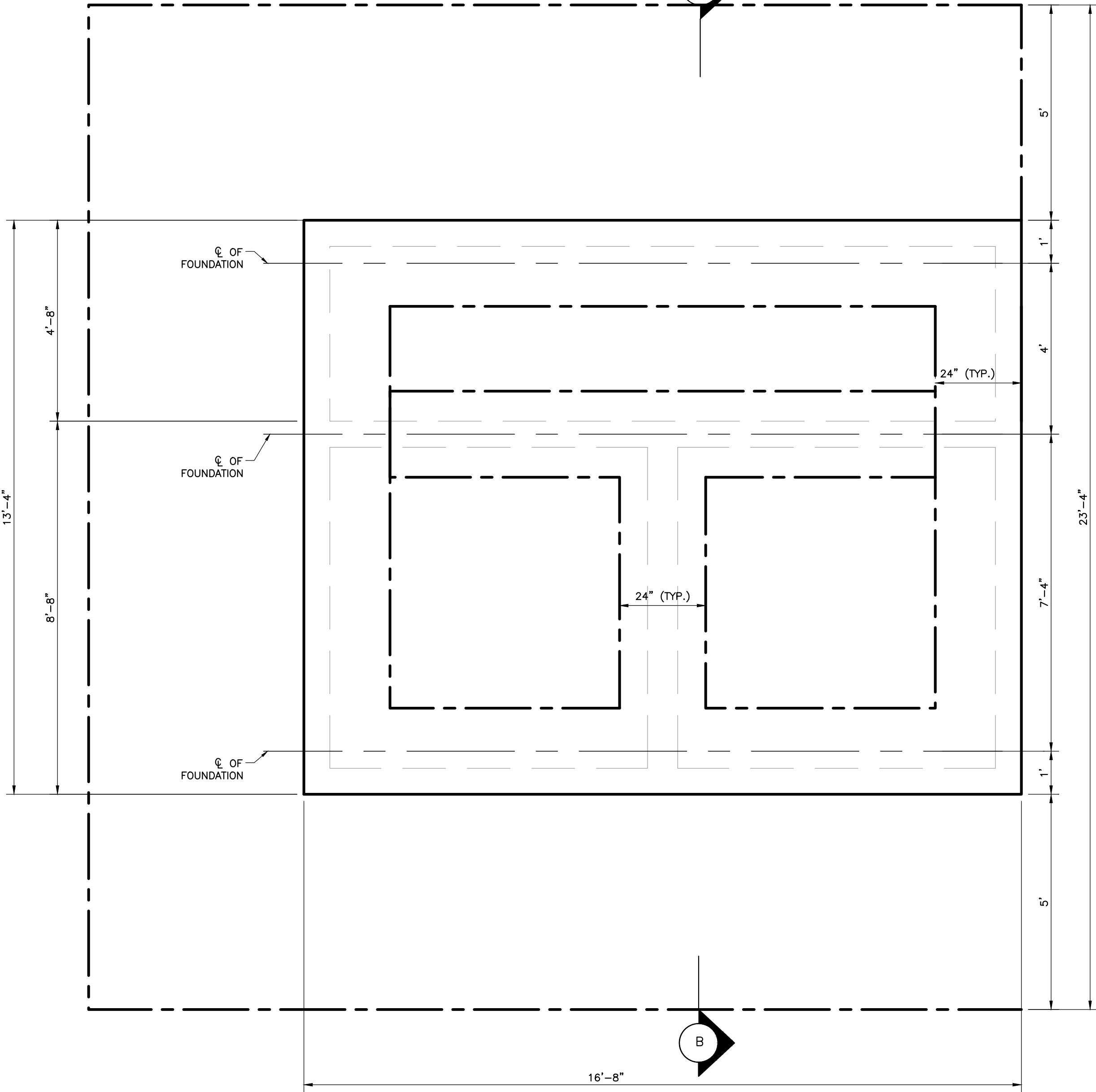
NOTES:

1. MATERIALS FOR THE PAVILLION WILL BE FURNISHED BY LMP, CONTRACTOR SHALL PREPARE THE SITE AND POUR THE FOUNDATION AND THE SLAB. CONTRACTORS SHALL INSTALL THE PAVILION.
2. EXPANSION JOINT LOCATION AND SPACING PER ITEM 608.04.
3. CONCRETE WALKS SHALL HAVE 4"x4" - W1.4XW1.4 WWF.
4. CONSTRUCTION JOINT SPACING SHALL BE EQUAL TO APPROXIMATELY THREE TIMES THE THICKNESS OF THE SLAB.



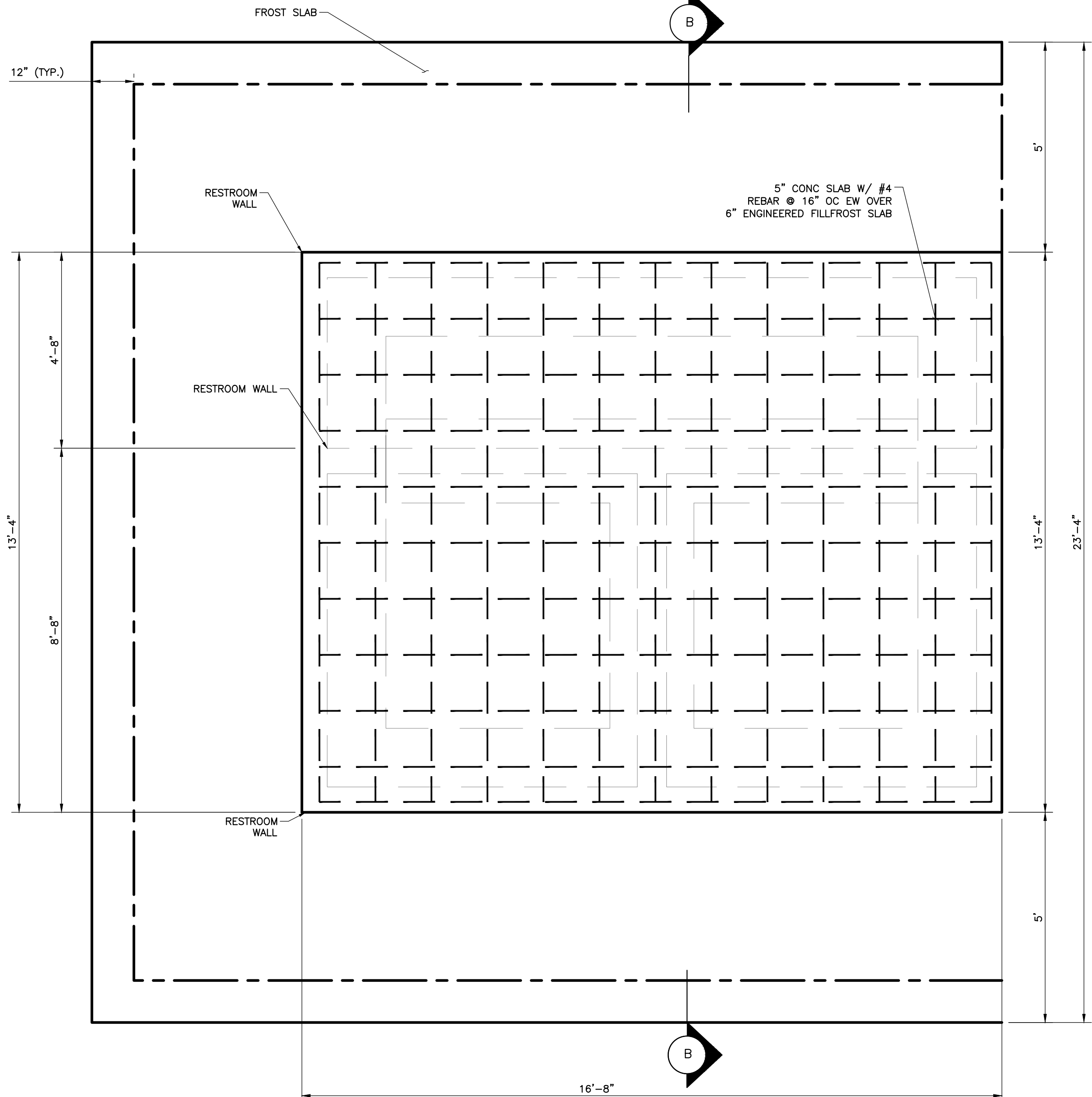
DRAWING NO.: 7		PAVILLION FOUNDATION PLAN		ARCOLA CREEK PARK SITE IMPROVEMENTS		 Civil & Environmental Consultants, Inc.		6150 Parkland Blvd. Suite 115 Mayfield Heights, OH 44124 Ph: 440.544.1555 www.cecinc.com		REVISION RECORD	
DATE:	JAN. 2025	DRAWN BY:	GCL	NO.	DATE	DESCRIPTION					
DWG SCALE:		AS NOTED	BL								
PROJECT NO.:	347-085										
APPROVED BY:	RBP										

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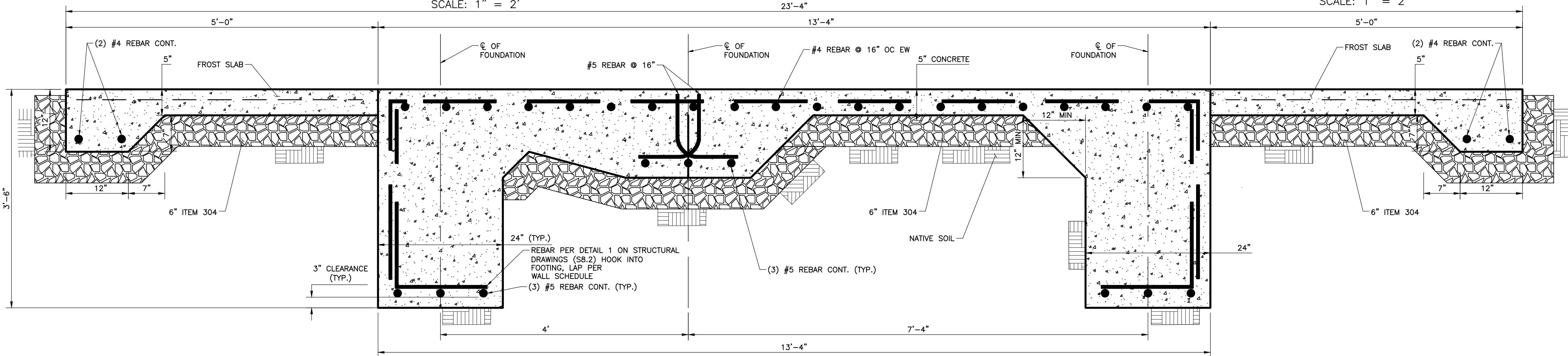
BATHROOM FOUNDATION PLAN (MONOLITHIC SLAB)

SCALE: 1" = 2'



BATHROOM CONCRETE FLOOR PLAN

SCALE: 1" = 2'

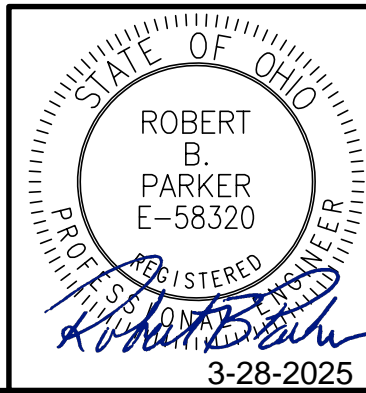


SECTION B-B DETAIL

SCALE: 1" = 1'

NOTES:

1. MATERIALS FOR THE RESTROOM WILL BE FURNISHED BY OWNER. CONTRACTOR SHALL PREPARE THE SITE AND POUR THE FOUNDATION AND THE SLAB. CONTRACTORS SHALL INSTALL THE RESTROOM. FOR STRUCTURAL DETAILS SEE STRUCTURAL DRAWINGS.
2. 5" CONC. SLAB W/ 6 X 6 -W2.9X W2.9 W/M OR #4 REBAR 16" OC EW. CONTRACTORS OPTION, SLOPE AWAY FROM BLDG. @ 1/4" : 12" UNO.



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**ARCOLA CREEK PARK
SITE IMPROVMENTS
LAKE METROPARKS
LAKE COUNTY, OHIO**

RESTROOMS FOUNDATION PLAN

DRAWING NO.:

8

SHEET 8 OF 17

REVISION RECORD

DESCRIPTION

NO

DATE

DATE:

JAN. 2025

DRAWN BY:

AS NOTED

CHECKED BY:

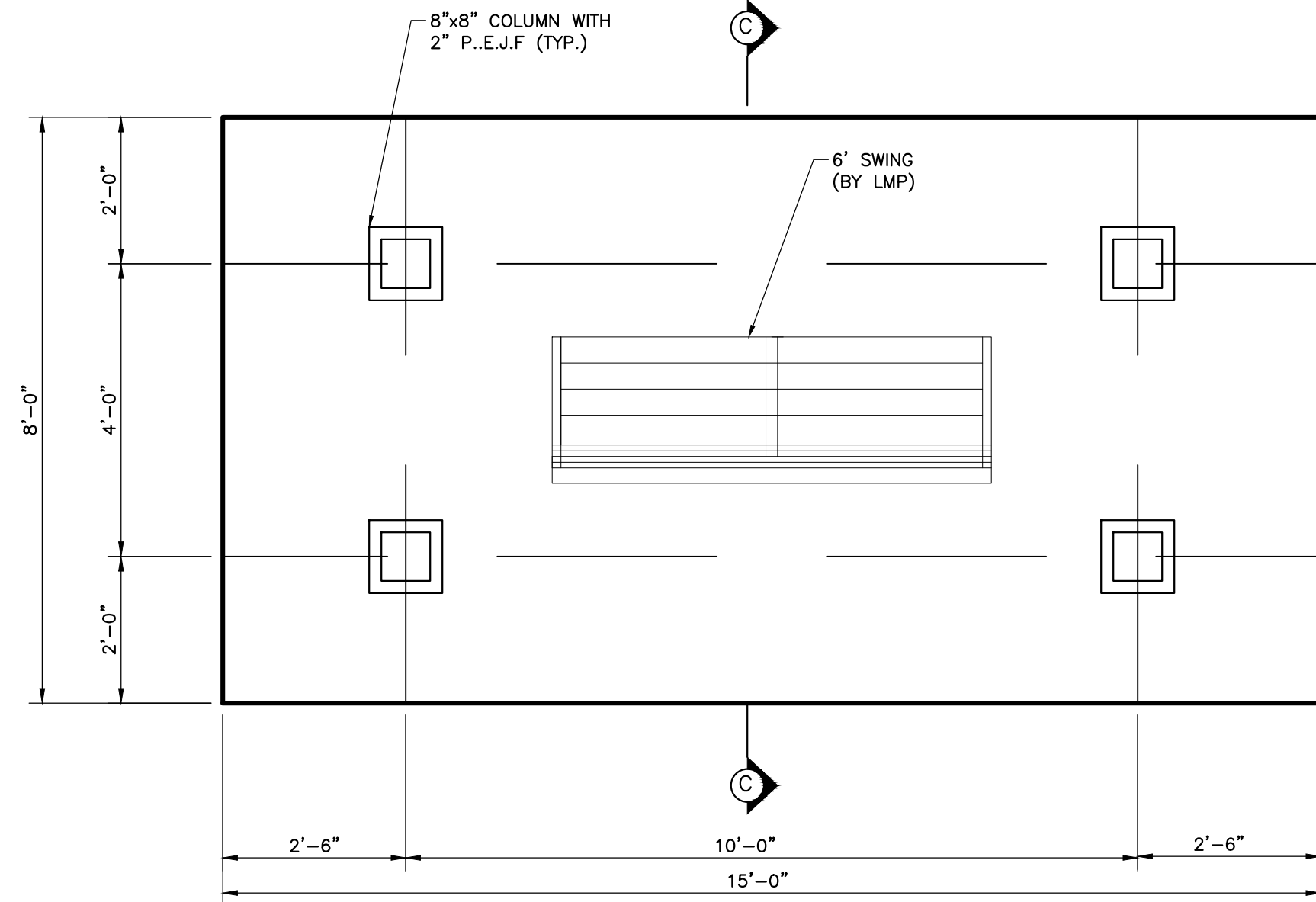
APPROVED BY:

GCL

BL

347-085

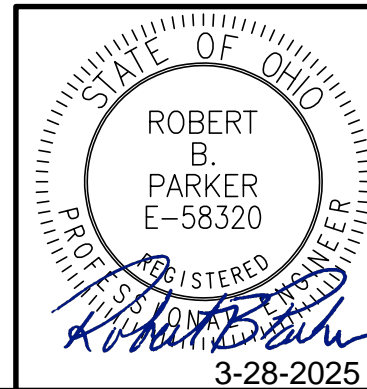
RBP




USER SWINGS FOUNDATION PLAN
SCALE: 1" = 2'

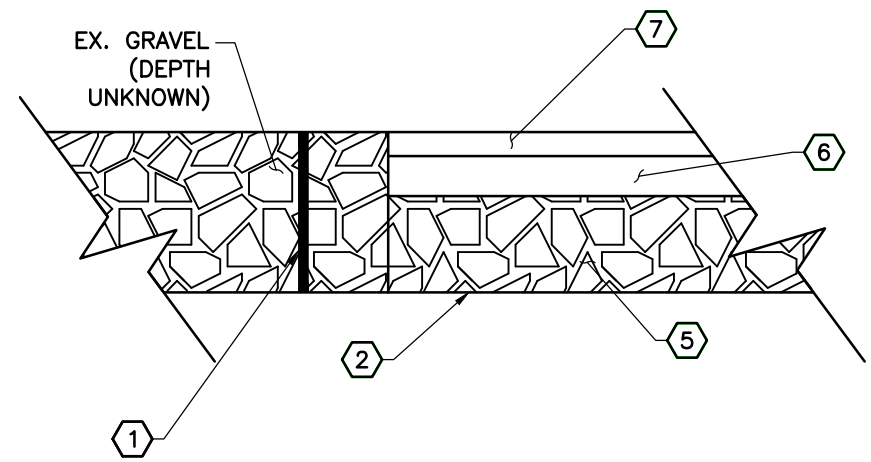


1. BENCH SWINGS ITEMS WILL BE FURNISHED BY OWNER, CONTRACTOR SHALL PREPARE THE SITE AND POUR THE FOUNDATION AND THE SLAB, AND BUILT THE SWINGS STRUCTURE SUPPORTS. CONTRACTORS SHALL INSTALL THE SWINGS. CUT SHEETS FOR THE BENCH SWINGS WILL BE PROVIDED UPON REQUEST.
2. EXPANSION JOINT LOCATION AND SPACING PER ITEM 608.04.
3. SLABS AND CONCRETE WALKS SHOULD HAVE 4"x4" - W1.4KW1.4 WWF.
4. CONSTRUCTION JOINT SHALL BE EQUAL TO APPROXIMATELY THREE TIMES THE THICKNESS OF THE SLAB.

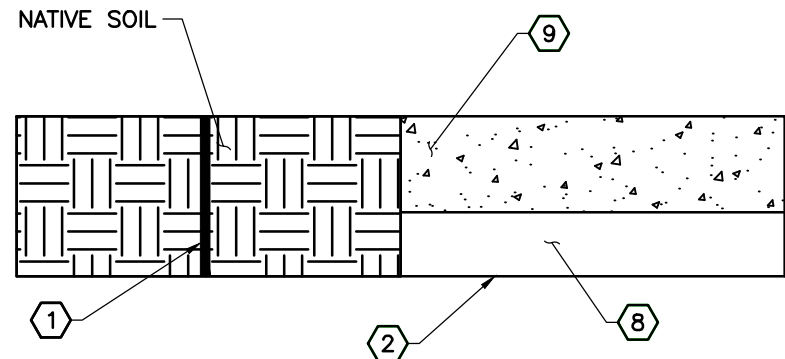


<div>DRAWING NO. : 9</div> <div>SHEET 9 OF 17</div>		<div>SWINGS FOUNDATION PLAN</div> <table><tr><td>DATE:</td><td>JAN. 2025</td><td>DRAWN BY:</td><td>GCL</td></tr><tr><td>DWG. SCALE:</td><td>AS NOTED</td><td>CHECKED BY:</td><td>BL</td></tr><tr><td>PROJECT NO.</td><td colspan="3">347-085</td></tr><tr><td>APPROVED BY:</td><td colspan="3">RBP</td></tr></table>		DATE:	JAN. 2025	DRAWN BY:	GCL	DWG. SCALE:	AS NOTED	CHECKED BY:	BL	PROJECT NO.	347-085			APPROVED BY:	RBP			<div>ARCOLA CREEK PARK SITE IMPROVMENTS</div> <div>LAKE METROPARKS LAKE COUNTY, OHIO</div>		<div> Civil & Environmental Consultants, Inc.</div> <div>6150 Parkland Blvd. Suite 115 Mayfield Heights, OH 44124 Ph: 440.544.1555 www.ccecinc.com</div>		<table><tr><th colspan="2">REVISION RECORD</th></tr><tr><th>NO.</th><th>DATE</th></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>		REVISION RECORD		NO.	DATE																
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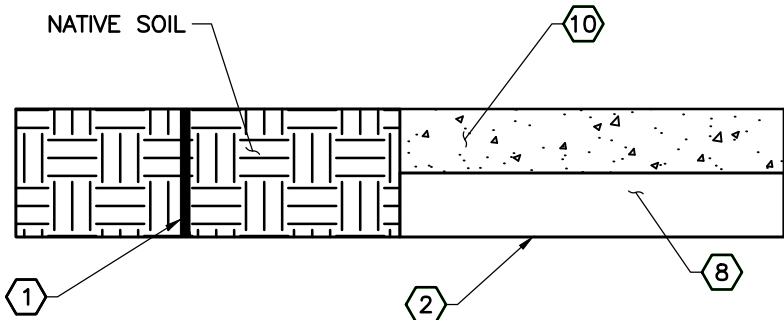
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ASPHALT PARKING PAVEMENT DETAIL
N.T.S.



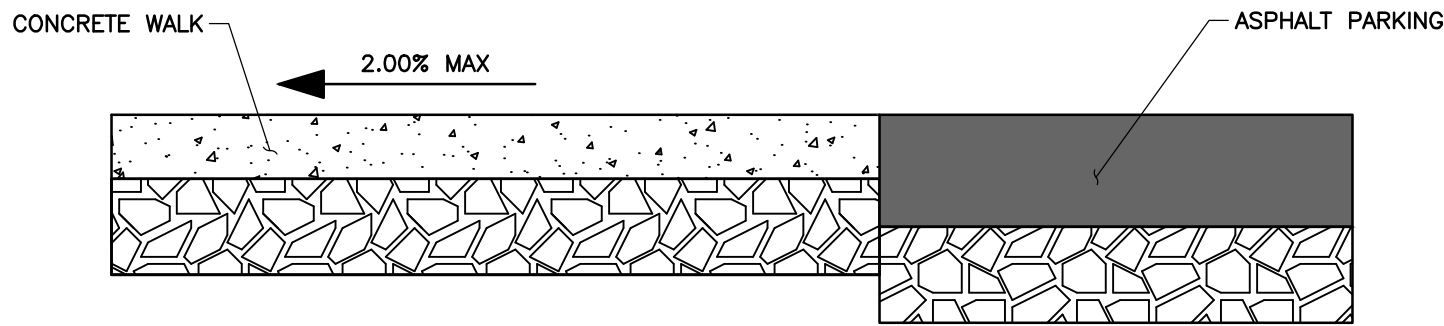
CONCRETE FLOOR DETAIL
N.T.S.



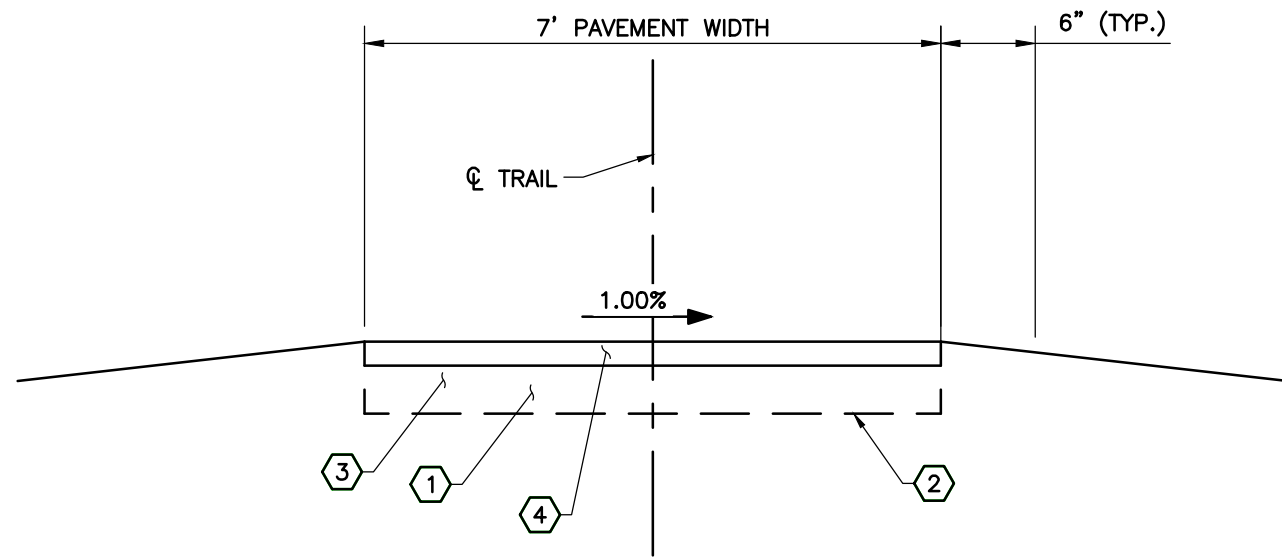
CONCRETE WALK DETAIL
N.T.S.

LEGEND:

- ① ITEM 203 - EXCAVATION
- ② ITEM 204 - ODOT SUBGRADE COMPACTION
- ③ ITEM 304 - 4" ODOT AGGREGATE BASE
- ④ ITEM 441 - 3" ASPHALT CONCRETE SURFACE COURSE, TYPE 1. (448), PG64-22, AS PER PLAN
- ⑤ ITEM 304 - 6" ODOT AGGREGATE BASE
- ⑥ ITEM 441 - 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448)
- ⑦ ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- ⑧ ITEM 304 - 6" ODOT LESTONE AGGREGATE BASE COARSE
- ⑨ 6" REINFORCED CONCRETE WITH 4"x4" W1.4 X W1.4 WWF.
- ⑩ 4" REINFORCED CONCRETE WITH 4"x4" W1.4 X W1.4 WWF.



ASPHALT PARKING AND PAVEMENT WALK DETAIL
N.T.S.



ASPHALT TRAIL PAVEMENT DETAIL
N.T.S.

ADA-COMPLIANT TRAIL NOTES:

- CONTRACTOR SHALL PROVIDE MINIMAL GRADING AND CLEARING AS NEEDED TO PREPARE THE PROPOSED ADA-COMPLIANT TRAILS. PROPOSED TRAIL SURFACE SHALL GENERAL FOLLOW EXISTING GRADES
- RUNNING SLOPES SHALL NOT BE STEEPER THAN 1:20, AND CROSS SLOPE SHALL NOT BE STEEPER THAN 1:48 PER SECTION 403.3 OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN (SEE KEY REQUIREMENT TABLE BELOW). TRAIL CROSS-SECTION DOES NOT NEED TO BE CROWNED - IT SHALL VARY TO ENSURE POSITIVE DRAINAGE UTILIZING EXISTING DRAINAGE PATTERNS.
- PROPOSED ADA-COMPLIANT TRAIL WIDTH SHALL BE A MINIMUM OF 7', AND TRAIL SURFACE SHALL BE FIRM AND STABLE.
- PROVIDE NOMINAL GRADING AND COMPACTION WITHIN THE 6 INCH WIDE SHOULDER ADJACENT TO EACH SIDE OF THE ADA-COMPLIANT TRAIL.

ADA-COMPLIANT FACILITIES - KEY REQUIREMENT TABLES

TABLE 1: RUNNING SLOPE REQUIREMENTS (TRAIL GRADE UP OR DOWN)

MAX RUN OF TRAIL SLOPE	MAX DISTANCE BETWEEN LEVEL LANDINGS
0-5%	ANY DISTANCE (SEE NOTE 1)
6-8%	50 FEET OF RUN (SEE NOTE 2)
9-10%	30 FEET OF RUN (SEE NOTE 2)
11-14%	5 FEET OF RUN (SEE NOTE 2)

NOTE 1: RUNNING SLOPE GREATER THAN 5% NOT PERMITTED WHERE CROSS SLOPE EXCEEDS 5%.

NOTE 2: LEVEL LANDINGS 5 FEET LONG ARE REQUIRED AT THE END OF EACH RUN SECTION.

TABLE 2: CROSS SLOPE REQUIREMENTS

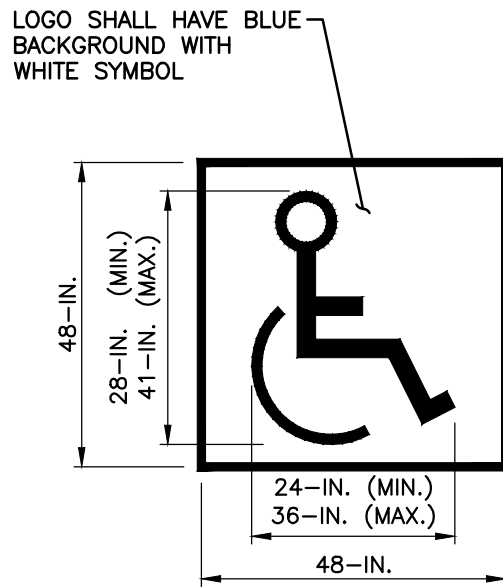
MAX CROSS SLOPE	MAX DISTANCE
0-2% RECOMMENDED	ANY DISTANCE
3-5%	ANY DISTANCE (SEE NOTE 3)
6-8%	10 FEET (SEE NOTE 4)
10-12%	5 FEET (SEE NOTE 4)

NOTE 3: CROSS SLOPE GREATER THAN 5% NOT PERMITTED WHERE RUNNING SLOPE EXCEEDS 5%.

NOTE 4: LEVEL AREA 5 FEET LONG IS REQUIRED AT THE END OF EACH RUN SECTION.

NOTE:

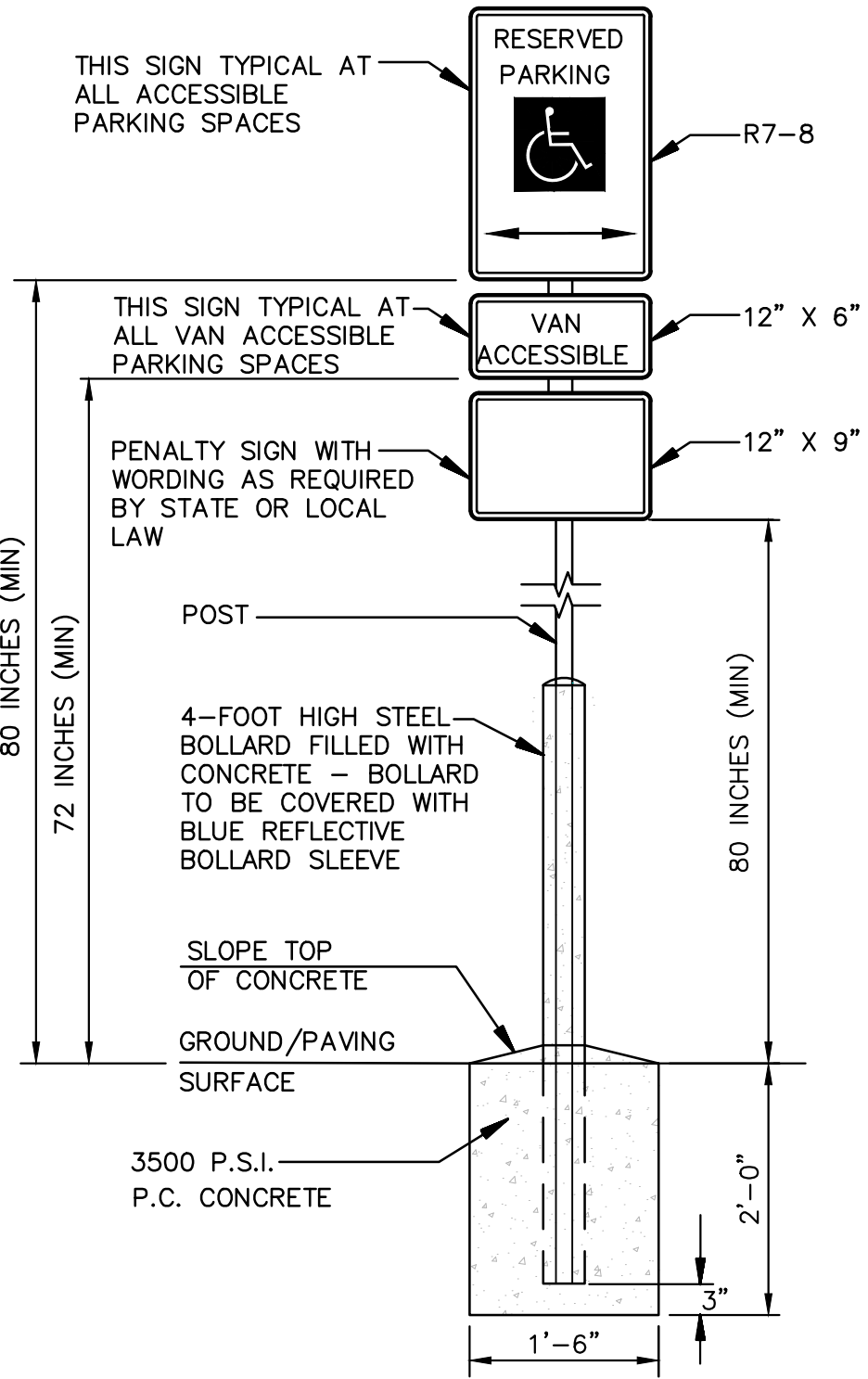
- CONTRACTOR SHALL ENSURE ALL PARKING LOTS, DRIVES, ADA-COMPLIANT TRAILS, AND ALL STRUCTURES & AMENITIES ALONG THE ADA-COMPLIANT TRAILS MEET THE REQUIREMENTS IN THESE TABLES UPON COMPLETION OF PROJECT



NOTES:

- CONTRACTOR SHALL FURNISH AND INSTALL PAVEMENT MARKINGS AS SHOWN USING A TEMPLATE OR STRIPING MACHINE IN ACCORDANCE WITH ODOT SPECIFICATIONS.
- PAINT MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH ODOT SPECIFICATIONS.

**ACCESSIBLE PARKING
SPACE MARKING**
N.T.S.



**RESERVED PARKING SIGN (R7-8)
VAN ACCESSIBLE SIGN (R7-8P)**
N.T.S.

PAY ITEM NOTES

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN

THIS ITEM INCLUDES THE EQUIPMENT, LABOR, AND MATERIALS THAT IS DESCRIBED IN THE ODOT CMS FOR ITEM 201 CLEARING AND GRUBBING, AS WELL AS INCLUDES THE REMOVAL, DISPOSAL, AND STUMP GRINDING OF ANY AND ALL MATURE TREES REQUIRED TO BE REMOVED TO FACILITATE CONSTRUCTION. THIS INCLUDES TREES WITHIN THE LIMITS OF CONSTRUCTION (UNLESS MARKED TO REMAIN). ANY TREE CLEARING REQUIRED FOR THE PROJECT SHALL BE PERFORMED BY THE CONTRACTOR WITHIN THE TREE CLEARING SEASON FROM OCTOBER 1 TO MARCH 31. THIS ITEM SHALL BE PAID AS A LUMP SUM.

ITEM 202 - REMOVAL OF PORTABLE RESTROOMS, AS PER PLAN

THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS TO REMOVE THE EXISTING PORTABLE RESTROOMS IN THE AREA WITHIN THE CONSTRUCTION LIMITS. THIS ITEM INCLUDES TRANSPORTATION OF THE PORTABLE RESTROOMS TO PREFERRED OWNERS LOCATION NO FURTHER THAN 50 MILES. THIS ITEM SHALL BE PAID AS A LUMP SUM.

ITEM 451 - 4" REINFORCED CONCRETE PAVEMENT FROST SLABS, AS PER PLAN

THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS TO PREPARE, PLACE AND FINISH THE FROST SLAB AS PER DETAIL ON FOUNDATION PLANS.

ITEM SPECIAL - FOUNDATION, AS PER PLAN

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE A THIRD PARTY PRIVATE UTILITY LOCATING SERVICE (I.E., IN ADDITION TO OUPS) TO INVESTIGATE UNDERGROUND ON DOCK ROAD AND WITHIN THE PROJECT AREAS (I.E., ALONG THE SAME SIDE OF THE ROAD AS THE PROPOSED WORK). GAS, WATER, SANITARY, ELECTRIC, AND COMMUNICATIONS LINES MAY BE EXPECTED. SPECIFIC ATTENTION SHOULD BE PLACED ON LOCATING THE EXISTING GAS LINES WITHIN THE PROJECT AREA. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF THE PRIVATE LOCATE TO THE ENGINEER/OWNER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER/OWNER REGARDING MATERIALS. THIS ITEM IS PAID LUMP SUM.

ITEM SPECIAL - PAVILION INSTALLATION

THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, TO INSTALL THE PAVILION. PAVILION MATERIALS WILL BE PROVIDED AND DELIVERED ON SITE BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING MATERIALS. THIS ITEM IS PAID LUMP SUM.

ITEM SPECIAL - RESTROOM INSTALLATION

THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, TO BUILD THE RESTROOMS. RESTROOMS MATERIALS WILL BE PROVIDED AND DELIVERED ON SITE BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING MATERIALS. THIS ITEM IS PAID LUMP SUM.

ITEM SPECIAL - BENCH SWING MATERIALS

THIS ITEM INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING: 8"x8", 4"x6" AND 2"x4" TREATED SOUTHERN PINE GRADE OR BETTER, AND GALVANIZED NAIL, ANTI CORROSION SCREWS, AND GALVANIZED BOLTS REQUIRED TO BUILD THE SWINGS STRUCTURE. THIS ITEM IS PAID LUMP SUM.

ITEM SPECIAL - BENCH SWING INSTALLATION

THIS ITEM INCLUDES ALL LABOR, EQUIPMENT TO BUILD THE SWINGS. BENCH SWINGS ITEMS WILL BE PROVIDED AND DELIVERED ON SITE BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING THE INSTALLATION OF THE BENCH SWINGS. THIS ITEM IS PAID LUMP SUM.

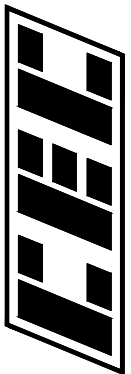
ITEM SPECIAL - ELECTRIC CONNECTION

THIS ITEM INCLUDES ALL LABOR, EQUIPMENT MATERIALS AND COORDINATION TO INSTALL AND CONNECT THE ELECTRIC LINE FROM THE POLE TO THE RESTROOMS AND INSTALL THE ELECTRIC LINE FROM THE RESTROOMS TO PAVILION. CONTRACTOR SHALL COORDINATE WITH ELECTRIC COMPANY FOR CONNECTION TO THE MAIN POWER LINES. THIS ITEM IS PAID LUMP SUM.

ESTIMATED QUANTITIES

ODOT ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
TRAIL AND PARKING LOT			
201	CLEARING AND GRUBBING, AS PER PLAN	1	LUMP
202	REMOVAL OF PORTABLE RESTROOMS, AS PER PLAN	1	LUMP
203	EXCAVATION	649	CY
204	SUBGRADE COMPACTION	2,447	SY
304	4" AGGREGATE BASE	41	CY
304	6" AGGREGATE BASE	346	CY
304	4" ODOT AGGREGATE BASE COARSE	19	CY
441	3" ASPHALT CONCRETE SURFACE COURSE, TYPE 1	31	CY
441	2.5" ASPHALT CONCRETE INTERMEDIATE COURSE	144	CY
441	1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1	87	CY
451	4" REINFORCED CONCRETE PAVEMENT	171	SY
630	HANDICAP SIGN	6	EACH
640	PARKING LOT STALL MARKING	1,089	FT
RESTROOMS			
304	6" ODOT LESTONE AGGREGATE BASE COARSE	7	CY
451	5" REINFORCED CONCRETE PAVEMENT	25	SY
451	5" REINFORCED CONCRETE PAVEMENT FROST SLABS, AS PER PLAN	31	SY
611	6" SANITARY LINE	350	FT
748	1-1/2" WATER LINE	300	FT
SPECIAL	ELECTRICAL CONNECTION	1	LUMP
SPECIAL	FOUNDATION, AS PER PLAN	24	CY
SPECIAL	RESTROOMS BUILDING INSTALLATION	1	LUMP
PAVILION			
304	6" ODOT LESTONE AGGREGATE BASE COARSE	52	CY
451	6" REINFORCED CONCRETE PAVEMENT, AS PER PLAN	147	SY
451	4" REINFORCED CONCRETE PAVEMENT, AS PER PLAN	163	SY
651	TOPSOIL STOCKPILED	52	CY
652	PLACING STOCKPILED TOPSOIL	26	CY
SPECIAL	FOUNDATION, AS PER PLAN	12	EACH
SPECIAL	PAVILLION INSTALLATION	1	LUMP
BENCH SWING			
304	6" ODOT LESTONE AGGREGATE BASE COARSE	4	CY
451	4" REINFORCED CONCRETE PAVEMENT, AS PER PLAN	27	SY
651	TOPSOIL STOCKPILED	4	CY
652	PLACING STOCKPILED TOPSOIL	2	CY
SPECIAL	FOUNDATION, AS PER PLAN	8	EACH
SPECIAL	BENCH SWING MATERIALS	1	LUMP
SPECIAL	BENCH SWING INSTALLATION	1	LUMP
EROSION CONTROL			
SPECIAL	SEEDING AND MULCHING, CLASS 1	1	LUMP
832	EROSION CONTROL	1	LUMP
INCIDENTALS			
103	PREMIUM FOR CONTRACT PERFORMANCE BOND, FOR PAYMENT BOND, AND FOR MAINTENANCE BOND	1	LUMP
823	CONSTRUCTION LAYOUT STAKES AND SURVEYING	1	LUMP
624	MOBILIZATION	1	LUMP
SPECIAL	PRE-CONSTRUCTION VIDEO	1	LUMP
SPECIAL	PRIVATE UTILITY LOCATE	1	LUMP
SPECIAL	LCOU INSPECTOR ALLOWANCE	1	EACH

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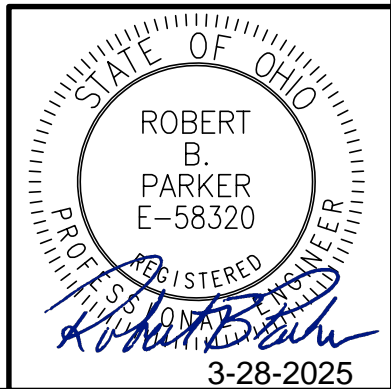
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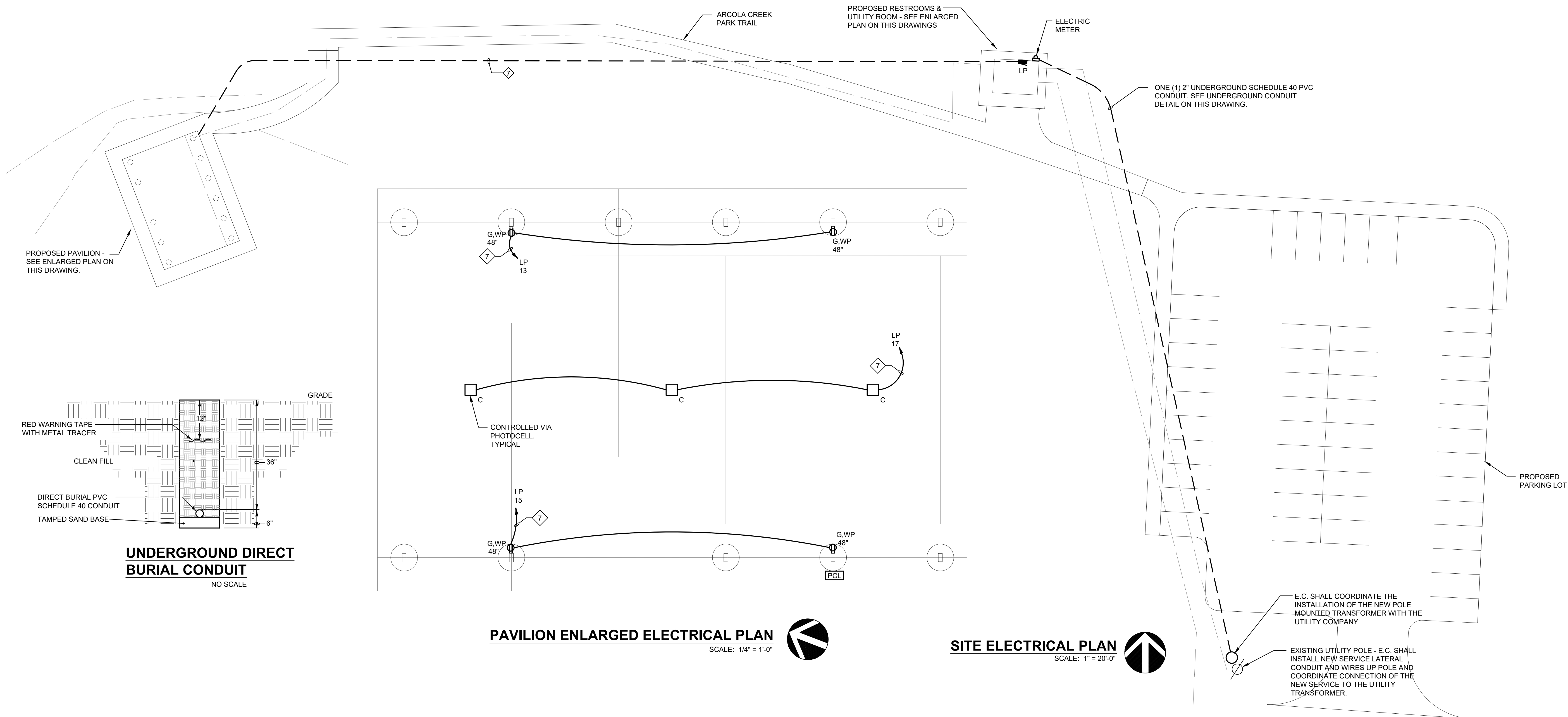
ARCOLA CREEK PARK
SITE IMPROVMENTS

LAKE METROPARKS
LAKE COUNTY, OHIO

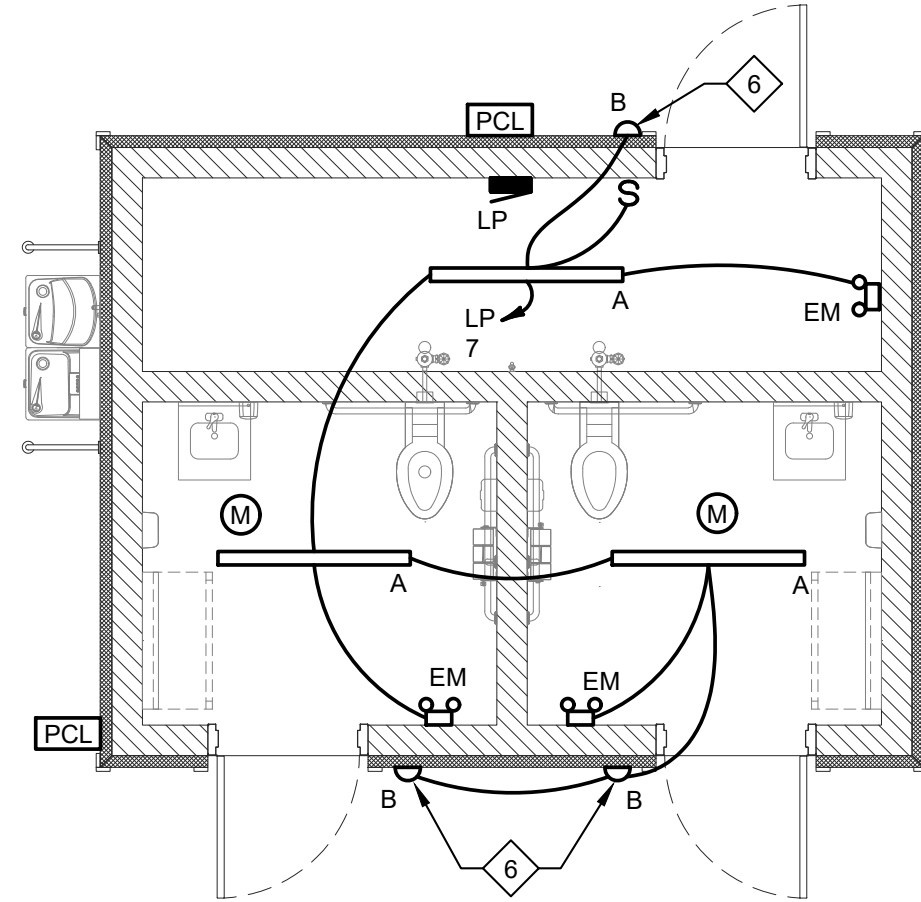
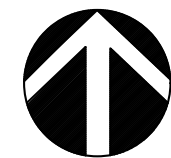
GENERAL DETAILS

DATE:	JAN. 2025	DRAWN BY:	GCL
DWG SCALE:	AS NOTED	CHECKED BY:	BL
PROJECT NO.:	347-085	APPROVED BY:	RBP

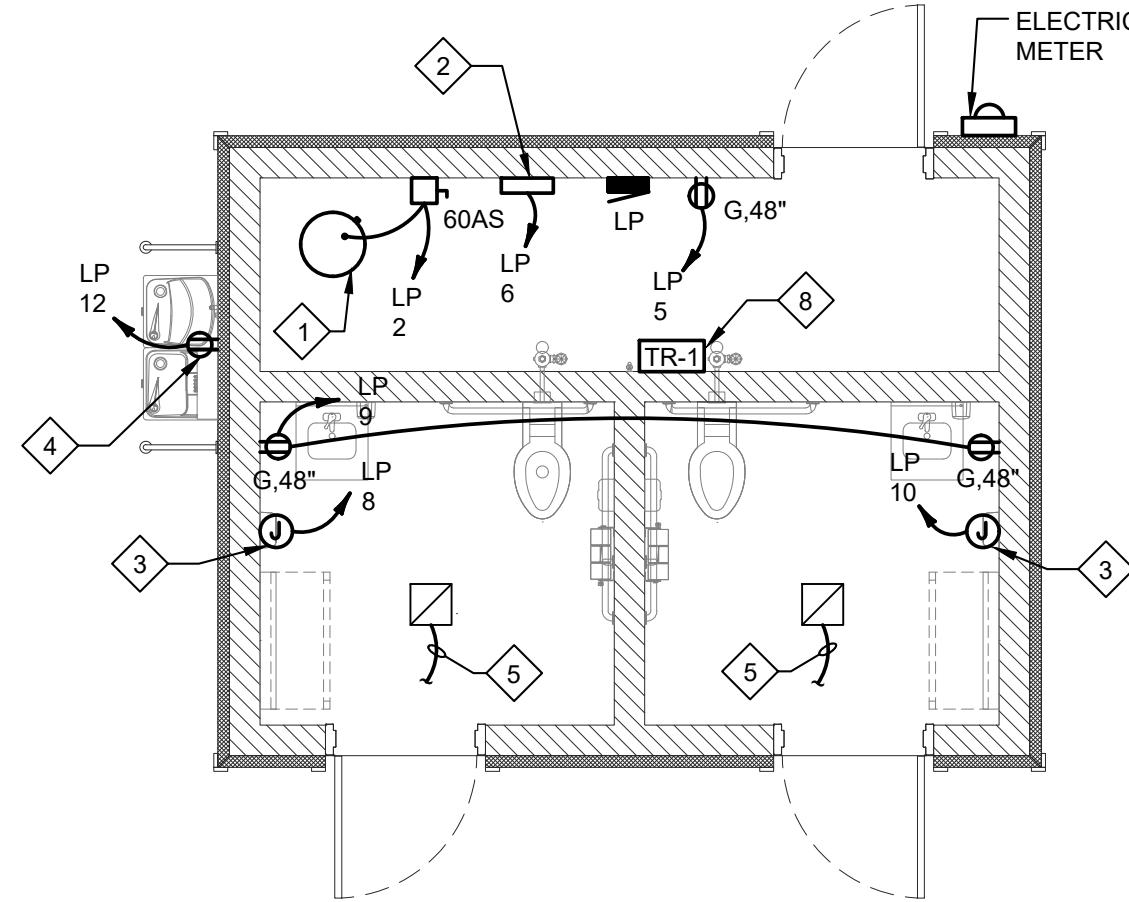
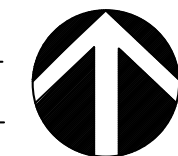




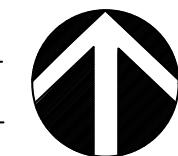
KEY PLAN
NO SCALE



RESTROOMS ENLARGED
LIGHTING PLAN
SCALE: 1/4" = 1'-0"

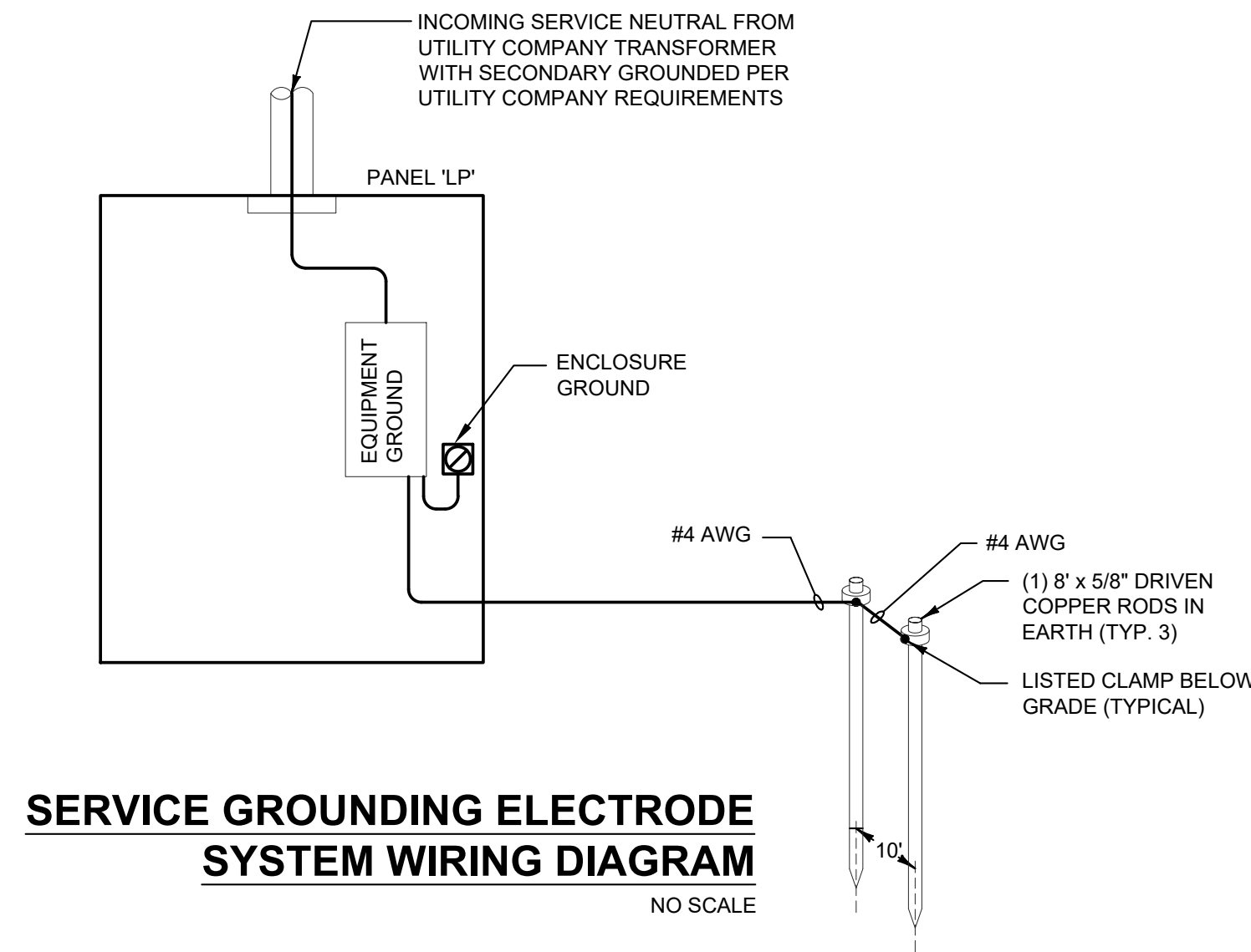


RESTROOMS ENLARGED
POWER PLAN
SCALE: 1/4" = 1'-0"



RESTROOMS NOTES:

1. ELECTRIC WATER HEATER 120V, 1PH, 2.5KW. WIRE TO DEDICATED CIRCUIT BREAKER INDICATED.
2. ELECTRIC HEATER 120V, 2.7KW. WIRE TO DEDICATED CIRCUIT BREAKER INDICATED.
3. ELECTRIC HAND DRYER 120V, 1.0KW. WIRE TO DEDICATED CIRCUIT BREAKER INDICATED.
4. WATER FILLING STATION 120V, 1.0KW ASSUMED. WIRE TO DEDICATED 120V 20A GFCI RATED CIRCUIT BREAKER INDICATED.
5. CONNECT EXHAUST FAN TO THE RESTROOM LIGHTING CIRCUIT - EXHAUST FAN SHALL OPERATE ON/OFF WITH RESTROOM LIGHTS.
6. CONTROLLED VIA EXTERIOR WALL MOUNTED PHOTOCELL
7. INSTALL 2-10 AWG AND 1-10 AWG GROUND BRANCH CIRCUITS IN COMMON 2" CONDUIT BACK TO BREAKER PANEL 'LP' LOCATED IN MECHANICAL ROOM - SEE SITE PLAN FOR CONDUIT RUN.
8. LOW VOLTAGE TRANSFORMER FOR TOILET SENSORS. WIRE PER MANUFACTURER'S INSTRUCTIONS.



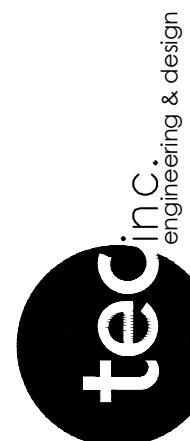
SERVICE GROUNDING ELECTRODE
SYSTEM WIRING DIAGRAM
NO SCALE



BY	DATE	DESCRIPTION	REV. NO.
TGP	03/24/25	FOR PERMIT	

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ARCOLA CREEK
PARK RESTROOM
MADISON TWP, OHIO

ELECTRICAL SITE PLAN
AND DETAILS

DATE: 01/30/2025
DESIGNED: MG
APPROVED: TGP
TEC PROJECT: *
SHEET NO.

E-13

SECTION 260000 - ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

- 1.1 PROVIDE ALL LABOR AND MATERIAL FOR ALL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, OR REASONABLY IMPLIED, TESTED AND READY FOR USE BY THE OWNER.
- 1.2 REFER TO THE ARCHITECTURAL AND OTHER CONTRACT DOCUMENTS FOR THE PROJECT. ELECTRICAL WORK AND/OR COORDINATION ITEMS INDICATED ON THESE DOCUMENTS ARE A PART OF THE ELECTRICAL SCOPE OF WORK.
- 1.3 DISCREPANCIES BETWEEN EACH DIVISION'S DOCUMENTS OR BETWEEN THE DOCUMENTS AND THE EXISTING SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE SUBMITTING A BID.
- 1.4 THE ELECTRICAL SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EQUIPMENT OR SYSTEMS:
- A. LIGHTING AND LIGHTING CONTROLS
 - B. WRING DEVICES
 - C. BRANCH CIRCUIT PANELBOARDS
 - D. UTILITY SERVICE INSTALLATION DRAWINGS
 - E. GROUNDING AND GROUNDING SYSTEMS
 - F. NEW POWER UTILITY SERVICES
 - G. CONNECTIONS AND POWER CIRCUITS FOR EQUIPMENT PROVIDED UNDER ANOTHER DIVISION, OR BY THE OWNER.

- 1.5 SUBMITTALS, OR SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING EQUIPMENT OR SYSTEMS:
- A. LIGHTING AND LIGHTING CONTROLS
 - B. WIRING DEVICES
 - C. BRANCH CIRCUIT PANELBOARDS
 - D. UTILITY SERVICE INSTALLATION DRAWINGS
 - E. PROVIDE SUBMITTALS ONLY FOR EQUIPMENT LISTED ABOVE. ALL SUBMITTALS MUST BE REVIEWED FOR PROPER CONTENT AND ACCURACY BY THE CONTRACTOR BEFORE SUBMISSION TO THE ENGINEER.
 - F. SUBMITTALS SHALL BE REVIEWED ONLY FOR GENERAL COMPLIANCE AND NOT FOR DIMENSIONS, QUANTITIES, ETC. THE SUBMITTALS THAT ARE RETURNED SHALL BE USED FOR PROCUREMENT. THE RESPONSIBILITY OF CORRECT PROCUREMENT REMAINS SOLELY WITH THE CONTRACTOR. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS AND DEVIATIONS FROM THE CONTRACT REQUIREMENTS. ELECTRONIC COPIES ARE REQUIRED. REFER TO DIVISION 1 FOR EXACT QUANTITIES AND OTHER SUBMITTAL REQUIREMENTS.

- 1.6 OBTAIN AND PAY FOR LOCAL PERMITS, LICENSES, AND INSPECTION FEES NECESSARY FOR THE WORK. PERMANENT AND TEMPORARY UTILITY SERVICE INSTALLATION CHARGES ARE NOT INCLUDED IN THE BASE-BID WORK; SUCH CHARGES ARE INCLUDED AS AN ALLOWANCE OF 15000 IN THE CONTRACT. THE UN-USED PORTION OF THIS ALLOWANCE SHALL BE RETURNED TO THE OWNER AT THE COMPLETION OF THE PROJECT. THIS CONTRACTOR IS RESPONSIBLE FOR CONTACTS WITH UTILITY COMPANIES, AND FOR ARRANGEMENT OF WORK ORDERS.

- 1.7 TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED TO OSHA REQUIREMENTS FOR THE CONSTRUCTION PERIOD. TEMPORARY UTILITY POWER WILL BE BROUGHT TO THE SITE UNDER THIS CONTRACT, BUT THE OWNER WILL PAY FOR RELATED MONTHLY CHARGES.

- 1.8 SUBMISSION OF A BID ASSUMES KNOWLEDGE OF ALL DOCUMENTS AVAILABLE RELATED TO THE WORK, AS WELL AS EXISTING CONDITIONS MADE AVAILABLE FOR REVIEW AND INSPECTION DURING THE BIDDING PERIOD. THIS CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE OF ANY UNKNOWN AND/OR CONCEALED CONDITIONS AFFECTING THE NEW WORK, AS THEY ARE DISCOVERED.

- 1.9 WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN: FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

- 1.10 THE ELECTRIC SERVICE, THE ELECTRICAL DISTRIBUTION SYSTEM AND ALL NON-CURRENT CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE CODES AND STANDARDS. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE GROUNDED BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITHIN EACH RACEWAY. THE ENTIRE GROUNDING SYSTEM SHALL BE TESTED FOR CONTINUITY AT THE COMPLETION OF THE WORK.

- 1.11 THE NEW MATERIAL AND LABOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE BY THE OWNERS' REPRESENTATIVE. NOTE THAT CERTAIN SPECIFIED ITEMS OF EQUIPMENT MAY CARRY A LONGER PERIOD OF WARRANTY.

PART 2 PRODUCTS

- 2.1 ALL MATERIAL, EQUIPMENT INSTALLATION AND LABOR SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE NATIONAL, STATE AND LOCAL CODES AND NFPA PUBLICATIONS, AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION. THIS CONTRACTOR MUST ADHERE TO PROPER INSTALLATION TECHNIQUES IN ACCORDANCE WITH INDUSTRY STANDARDS AS DEFINED BY ANSI AND NECA. IN ADDITION, OSHA REQUIREMENTS AND ANY SITE-SPECIFIC SAFETY STANDARDS SHALL BE FOLLOWED FOR SAFETY OF PERSONNEL ON SITE. NEW EQUIPMENT SHALL BE UL AND/OR CSA LISTED.

- 2.2 WIRING DEVICES SHALL BE "SPECIFICATION GRADE", AND SHALL BE OF ONE MANUFACTURER, WITH MATCHING PLASTIC PLATES. HUBBELL DEVICES ARE LISTED; LEVITON AND PASS & SEYMOUR DEVICES WITH EQUAL SPECIFICATIONS MAY BE SUPPLIED. IVORY DEVICES AND PLATES SHALL BE PROVIDED, UNLESS OTHERWISE REQUESTED. THE OWNERS' REPRESENTATIVE WILL CONFIRM COLORS OF DEVICES AND PLATES DURING THE SUBMITTAL APPROVAL PROCESS. UNLESS NOTED OTHERWISE, STANDARD DEVICES SHALL BE:

- A. LIGHT SWITCHES: 120/277 VOLT, QUIET TYPE, HUBBELL #1221 (SINGLE POLE), #1223 (THREE-WAY) AND #1224 (FOUR-WAY).
- B. GENERAL PURPOSE RECEPTACLES: 125 VOLT, 20 AMPERE, 2-POLE, 3-WIRE, DUPLEX TYPE, NEMA 5-20R, HUBBELL #5362.
- C. GFCI RECEPTACLES: 125 VOLT, 20 AMPERE, 2-POLE, 3-WIRE DUPLEX TYPE, NEMA 5-20R, HUBBELL #GFR-5362 SELF-TESTING AND FEED-THRU TYPE CAPABLE OF PROTECTING DOWNSTREAM CIRCUIT DEVICES.
- D. EXTERIOR RECEPTACLES: PROVIDE A GFCI RECEPTACLE WITH A TAYMAC #MX4380S, METAL EXTRA DUTY "IN-USE" COVER AND HORIZONTAL MOUNTED BOX.
- E. LINE-VOLTAGE CEILING OCCUPANCY SENSORS: WATTSTOPPER #DT-355 SERIES, DUAL TECHNOLOGY, 120/277 VOLT, 800W/1200W RATED, WITH 360° COVERAGE. SENSOR SWITCH TYPE CMR-PDT-9 IS CONSIDERED AN EQUIVALENT.
- F. WIRING DEVICES SHALL BE PROVIDED WITH A GROUNDED WIRE CONNECTED TO THE DEVICE AND/OR THE OUTLET BOX.

- 2.3 ALL WIRING SHALL BE COPPER, 90 DEGREE C. RATED, TYPE THHN, THWN OR XHHW, WITH 600-VOLT INSULATION UNLESS INDICATED OTHERWISE ON THE DRAWINGS. THE MINIMUM WIRE SIZE IS #12 FOR 120-VOLT BRANCH CIRCUIT; #10 SHALL BE USED FOR CIRCUIT LENGTHS GREATER THAN 150 FEET.

- A. FOR NEW DISTRIBUTION SYSTEMS COLOR CODE BRANCH CIRCUIT AND FEEDER CONDUCTORS AS FOLLOWS:

- 1. 120/240 VOLT, 1 PHASE, 3 WIRE SYSTEM
 - A. PHASE A-BLACK
 - B. PHASE B-RED
 - C. NEUTRAL-WHITE
 - D. GROUND-GREEN

- 2.4 ALL WIRING SHALL BE INSTALLED IN CONDUIT, AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. AT THE CONTRACTOR'S OPTION, AND AS PERMITTED BY THE NATIONAL ELECTRICAL CODE, TYPE MC CABLE, OR A MANUFACTURED WIRING SYSTEM MAY BE USED FOR 20 AMPERE AND 30 AMPERE BRANCH CIRCUITS IN STUD WALLS AND ABOVE ACCESSIBLE LAY-IN CEILINGS IN LIEU OF CONDUIT AND WIRE. HOMERUNS TO PANELS SHALL BE IN CONDUIT. PVC CONDUIT MAY BE USED FOR EXTERIOR UNDERGROUND CIRCUITS AND FOR INTERIOR CIRCUITS AND FEEDERS LOCATED UNDER THE GROUND FLOOR SLAB.

- 2.5 LIGHTING FIXTURES AND ASSOCIATED DRIVERS, AND LIGHTING CONTROLS SHALL BE AS INDICATED ON THE DRAWINGS, COMPLETE WITH PROPER LEDS, ACCESSORIES AND SUPPORTS AS RECOMMENDED BY THE MANUFACTURER AND IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, ARTICLES 410 AND 411, OR ANY LOCAL CODES THAT MAY APPLY.

- A. IMMEDIATELY PRECEDING THE FINAL INSPECTION, THIS CONTRACTOR SHALL THOROUGHLY CLEAN ALL FIXTURES OF DUST, DIRT, GREASE, FINGERMARKS, ETC. ALL FIXTURES SHALL BE OPERATING AT THE TIME OF OWNER'S ACCEPTANCE.

- 2.6 PANEL BOARDS, DISCONNECTS, AND OTHER POWER DISTRIBUTION EQUIPMENT SHALL BE PROVIDED FROM ONE MANUFACTURER WHEREVER POSSIBLE. APPROVED MANUFACTURERS ARE SQUARE D, GENERAL ELECTRIC, SIEMENS/ITE OR CUTLER HAMMER. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE, UNLESS INDICATED OTHERWISE ON THE DRAWINGS, WITH INTERRUPTING RATINGS EQUAL TO OR GREATER THAN FAULT CURRENTS AVAILABLE AT THE POINT OF SERVICE, 10 KAIC MINIMUM FOR 240Y/120 VOLT SYSTEM.

- A. BRANCH CIRCUIT PANELS SHALL BE SURFACE MOUNTED AS INDICATED, LOCKABLE AND KEYED ALIKE, AND SHALL HAVE A DOOR-IN-DOOR COVER.
- B. BUSSING FOR PANELBOARDS OR SWITCHBOARDS SHALL BE COPPER.

- 2.7 NON-FUSED DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH QUICK MAKE/ QUICK BREAK OPERATION, WITH A NEMA 1 RATING (INTERIOR) OR NEMA 3R RATING (EXTERIOR) UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

- 2.8 NAMEPLATES SHALL BE PROVIDED FOR IDENTIFICATION OF ALL POWER DISTRIBUTION EQUIPMENT AND SHALL BE ENGRAVED PHENOLIC WITH WHITE LETTERING AND BLACK BACKGROUND, UNLESS DIRECTED OTHERWISE BY THE OWNER'S REPRESENTATIVE.

- A. SPARE CIRCUIT BREAKERS SHALL BE IDENTIFIED AS SUCH AND SHALL BE LEFT IN THE "OFF" POSITION AT THE CONCLUSION OF THE WORK.

PART 3 EXECUTION

- 3.1 COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES ON SITE, INCLUDING CORE DRILL LOCATIONS AND FEEDER ROUTINGS. PROVIDE LAYOUT DRAWINGS FOR ELECTRICAL ROOM AND SUBMIT COPIES TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL BEFORE ROUGHING-IN CONDUITS AND EQUIPMENT.

- 3.2 SERVE AND CONNECT ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHER DIVISIONS OR OWNER. COORDINATE ALL OUTLET LOCATIONS AND CONNECTION REQUIREMENTS WITH THE CONTRACTOR FURNISHING THE EQUIPMENT. BEFORE CONNECTING ANY PIECE OF EQUIPMENT, CHECK THE NAMEPLATE RATING AGAINST THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS AND CALL ANY DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE..

- 3.3 LOCATE AND PROVIDE ALL OPENINGS IN FLOORS, CEILINGS, AND WALLS TO ALLOW FOR CONDUIT PENETRATIONS.

- A. SUBMIT TO THE OWNER'S REPRESENTATIVE ALL LOCATIONS AND SIZES OF OPENINGS WHICH MUST BE PROVIDED FOR THE WORK BEFORE DRILLING OR SETTING ANY SLEEVES.
- B. SEAL EXTERNAL WALL PENETRATIONS WHERE CONDUIT PASSES FROM A COLDER AREA TO A WARMER AREA.

- 3.4 PROVIDE THE PROPER CONNECTION AND/OR DISCONNECT AND OVER-CURRENT PROTECTION FOR OWNER AND DIVISION 15 EQUIPMENT, BASED UPON THE CONTRACT DOCUMENTS. VERIFY THIS INFORMATION WITH THE UNIT NAMEPLATE OR FIELD WIRING SCHEMATIC BEFORE ROUGH IN.

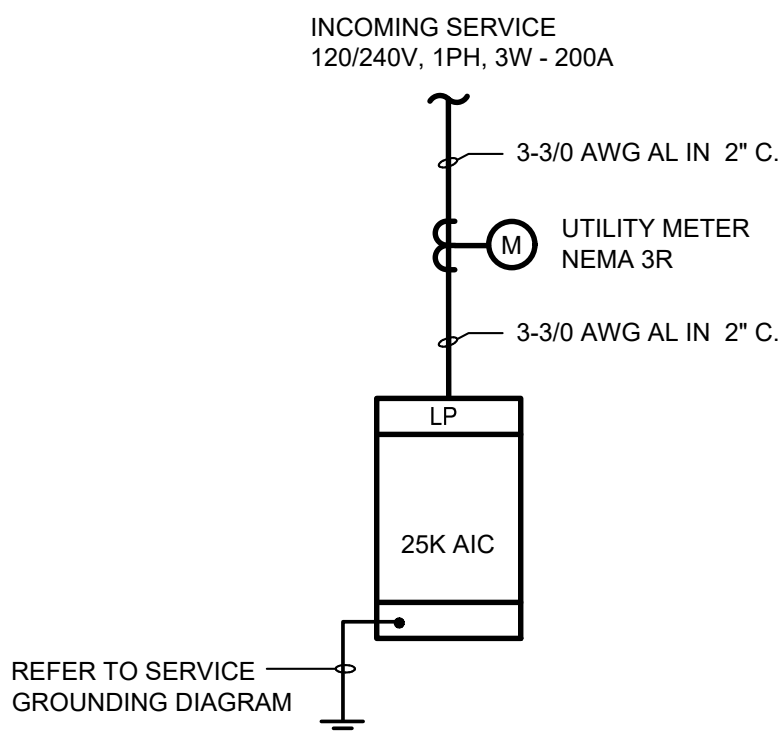
- 3.5 ELECTRICAL EQUIPMENT SHALL BE STORED IN A HEATED AND VENTILATED SPACE UNTIL READY FOR DELIVERY TO THE FINISHED EQUIPMENT SPACE ON THE SITE.

- 3.6 FOR FEEDERS AND EQUIPMENT CIRCUITS 40 AMPERE RATED AND ABOVE, THE INTENT OF THE DESIGN IS TO INSTALL A MAXIMUM OF THREE (3) CURRENT-CARRYING CONDUCTORS IN A SINGLE CONDUIT (RACEWAY), UTILIZING THE FULL CONDUCTOR AMPACITIES ALLOWED AND DEFINED IN THE NATIONAL ELECTRICAL CODE ARTICLE 310. COMBINING OF FOUR (4) OR MORE CURRENT-CARRYING CONDUCTORS IN A SINGLE RACEWAY MUST BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE.

- 3.7 UNLESS SPECIFICALLY REQUESTED BY THE OWNER'S REPRESENTATIVE, CEILING AND WALL MOUNTED OCCUPANCY SENSORS SHALL BE SET WITH DEFAULT TIMES, AS FOLLOWS:

- A. STORAGE AREAS - 5 MINUTES
 - B. PUBLIC RESTROOMS - 30 MINUTES
- CEILING MOUNTED OCCUPANCY SENSORS SHALL BE POSITIONED AND ADJUSTED BY THE CONTRACTOR TO ELIMINATE NUISANCE OPERATION OF THE CIRCUIT FROM HVAC DIFFUSERS OR MOVEMENT OUTSIDE THE CONTROLLED AREA OR ROOM

CIRCUIT BREAKER PANEL SCHEDULE																			
PANEL		LP		AMP		200		VOLTAGE		120/240V-1Ø-3W									
INTERRUPTING CAPACITY		25,000		SPACES		30		AMPS RMS SYM		25,000		MAIN		200A M.C.B.		MOUNTING		SURFACE	
LOAD DESCRIPTION	CONTINUOUS LOAD		NON-CONTINUOUS LOAD (80%)		RECEPTACLE LOAD		CB / PHASE		CIR NO		CB / PHASE		RECEPTACLE LOAD		NON-CONTINUOUS LOAD (80%)		CONTINUOUS LOAD		LOAD DESCRIPTION
	ØA	ØB	ØA	ØB	ØA	ØB			1	2	30/1		ØA	ØB	ØA	ØB	ØA	ØB	
SPARE									1	A	2	30/1			2.5				ELECTRICAL W.H
									3	B	4	20/1							SPARE
PANEL RECEPT.					0.2		20/1	5	A	6	30/1				1.6				ELEC. HEATER
RESTROOM LITS		0.6					20/1	7	B	8	20/1					1.0			HAND DRYER
RESTROOM REC.					0.4		20/1	9	A	10	20/1				1.0				HAND DRYER
SPARE							20/1	11	B	12	20/1					1.0			WATER FILLING ST
PAVILION POWER							20/1	13	A	14	20/1								SPARE
PAVILION POWER							20/1	15	B	16	20/1								SPARE
PAVILION LIGHTS							20/1	17	A	18	20/1								SPARE
SPARE							20/1	19	B	20	20/1								SPARE
SPACE									21	A	22								SPACE
SPACE									23	B	24								SPACE
SPACE									25	A	26								SPACE
SPACE									27	B	28								SPACE
SPACE									29	A	30								SPACE
		0.6				0.6		KW SUBTOTALS		KW				5.1		2.0			
CONNECTED LOAD PER PHASE																			
PHASE A		5.7 KWC																	
		47.5 AMPS																	
PHASE B		2.6 KWC																	
		21.7 AMPS																	
SCHEDULE REMARKS																			
</																			



ONE LINE DIAGRAM
NO SCALE

LUMINAIRE SCHEDULE								
TYPE	LUMINAIRE		LAMP TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	REMARKS
	WATTS	VOLTS						
A	35	120	LED 4000K 4300 LUMENS	4' SURFACE MOUNTED LINEAR STRIP	SURFACE	LITHONIA LIGHTING	CSV-T-L48-5000LM-M/VOLT-40K-80CRI	
B	14	120	LED 4000K 950 LUMENS	OUTDOOR WALL SCONCE WITH DARK BRONZE FINISH	WALL / SURFACE	LITHONIA LIGHTING	OLLWD-LED-P1-40K-120-DOB	
C	40	120	LED 4000K 5500 LUMENS	LED SQUARE CANOPY LUMINAIRE	SURFACE	PORTOR LIGHTING	PT-CAT-2-LW-3CP	
EM	2.5	120	LED	WHITE THERMOPLASTIC DUAL SQUARE HEAD EMERGENCY LIGHT	SURFACE / WALL	COMPASS LIGHTING	CU2SQ	1

SCHEDULE NOTES:

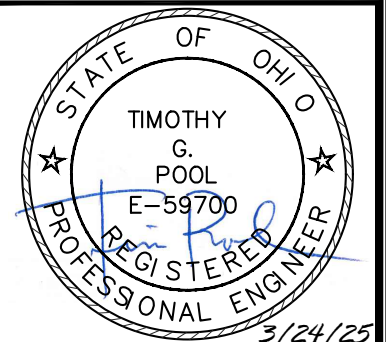
1. WIRE EMERGENCY LIGHTS AHEAD OF ALL CONTROLS.

ELECTRICAL GENERAL NOTES

- A. THE ELECTRICAL INSTALLATION MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND ANY APPLICABLE STATE OR LOCAL CODES, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- B. BRANCH CIRCUIT WIRING FOR EMERGENCY LIGHTING BATTERY PACKS AND EXIT LIGHTS SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH ARTICLE 700 OF THE NATIONAL ELECTRICAL CODE.
- C. ALL WIRE FOR POWER, LIGHTING, AND CONTROL SYSTEMS SHALL BE 600 VOLT THHN-THWN, 90 DEGREE INSULATED AND SHALL BE COPPER. ALL WIRE FOR COMMUNICATIONS SYSTEMS SHALL BE COPPER.
- D. ALL INTERIOR WIRING SHALL BE RUN IN EMT THIN-WALL THREADLESS CONDUIT OR PVC WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
- E. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED OR LABELED.
- F. COORDINATE THE ELECTRICAL WORK WITH ALL TRADES ON SITE AND WITH THE OWNER'S REPRESENTATIVE. REFER TO THE PLANS AND DETAILS SHOWING THE ARCHITECTURAL, MECHANICAL AND PLUMBING WORK TO PROPERLY PLAN AND INSTALL THE ELECTRICAL SYSTEMS.
- G. ALL UNDERGROUND PVC CONDUITS SHALL TRANSITION TO RIGID STEEL CONDUIT ABOVE GRADE TO A HEIGHT OF 8'-0" FOR PROTECTION FROM PHYSICAL DAMAGE PER N.E.C. ARTICLE 352. PROVIDE EXPANSION FITTINGS.
- H. ALL UNDERGROUND CONDUCTORS SHALL BE IN COMPLIANCE WITH N.E.C. ARTICLE 310.10(C), SUITABLE FOR USE IN WET LOCATIONS.
- I. UNDERGROUND PVC CONDUIT SHALL BE ROUTED AT MINIMUM DEPTH OF 36" BELOW GRADE, NO SPACING SUPPORTS OR WIRING RIBBON REQUIRED FOR DIRECT BORING TYPE INSTALLATION. ALL WORK SHALL COMPLY WITH N.E.C. ARTICLE 300.5 AND 352

ELECTRICAL SYMBOLS

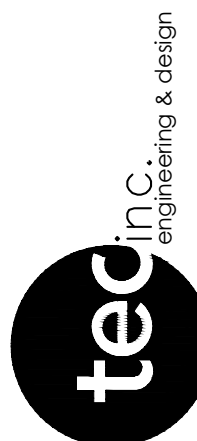
- 3.5
S
M
PCL
TR-1
A
E
Φ
Φ 48"
Φ G
WP G
J
60AS
C
M
4
A.F.F.
MCB
- BRANCH CIRCUIT HOMERUN TO PANEL "A", CIRCUIT #3 AND #5. PROVIDE THE PROPER QUANTITY OF MIN SIZE 12 AWG CONDUCTORS FOR THE CIRCUIT(S) INDICATED. A SEPARATE GROUNDING CONDUCTOR IS REQUIRED FOR ALL BRANCH CIRCUITS.
- SINGLE POLE SWITCH - MOUNTING AT 48" A.F.F.
- OCCUPANCY SENSOR SWITCH - CEILING MOUNTED. PROVIDE ONE POWER PACK PER ZONE TO BE CONTROLLED. POWER PACKS ARE NOT SHOWN ON PLANS
- EXTERIOR WALL MOUNTED PHOTOCELL W/ WEATHERPROOF COVER.
- TRANSFORMER - SLOAN, EL-154: (50 VA (WATTS)) (0.42A)
- LIGHT FIXTURE TYPE 'A' - SEE LIGHTING SCHEDULE.
- EMERGENCY BATTERY PACK, WALL MOUNTED
- DUPLEX RECEPTACLE - MOUNTING AT 18" A.F.F.
- DUPLEX RECEPTACLE - INDICATES MOUNTING AT 48" A.F.F.
- DUPLEX RECEPTACLE - GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE
- GFCI TYPE DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE
- JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED
- PANELBOARD - 0 TO 150 VOLTS TO GROUND
- UNFUSED DISCONNECT SWITCH - "60/2" INDICATES 60 AMPERE SWITCH RATING AND POLES
- ONE-LINE DIAGRAM REPRESENTATION OF A METER
- PLAN NOTE TAG, REFER TO PLANS FOR DESCRIPTION
- ABOVE FINISHED FLOOR
- MAIN CIRCUIT BREAKER



BY	TOP				
DATE	09/24/25				
DESCRIPTION	FOR PERMIT				
REV. NO.					

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ARCOLA CREEK
PARK RESTROOM

MADISON TWP, OHIO

ELEC. SPECIFICATIONS,
SYMBOL LEGEND, NOTES,
ONE LINE AND SCHEDULES

DATE: 01/30/2025

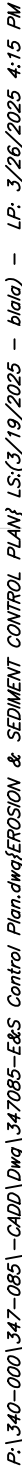
DESIGNED: MG

APPROVED: TGP

TEC PROJECT: *

SHEET NO.

E-14



P:\340-0001\347-085-CADD\Drawings\Control Detail\erosion & sediment control details\LS(3-12-2025 - glenar) - LP- 3/26/2025 4:15 PM

EROSION CONTROL NOTES & DETAILS

SITE DATA

PLAN DESIGNER: CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
6150 PARKLAND BOULEVARD
MAYFIELD HEIGHTS, OHIO 44124
(440) 544-1555
CONTACT: ROBERT B. PARKER, P.E.
RPARKER@CECINC.COM

OWNER/DEVELOPER: LAKE METROPARKS
11211 SPEAR ROAD
CONCORD TOWNSHIP, OHIO 44077
CONTACT: TIM LANE
(440) 639-7275
TLANE@LAKEMETROPARKS.COM

PROJECT DESCRIPTION: ARCOLA CREEK PARK PARKING AND SIGHT IMPROVEMENTS

RECEIVING BODY OF WATER: ARCOLA CREEK

EROSION AND SEDIMENT MEASURES: MEASURES WILL INCLUDE COMPOST FILTER SOCK

PERMANENT STABILIZATION: THE SITE WILL BE STABILIZED BY THE USE OF TEMPORARY AND PERMANENT SEEDING APPLICATIONS.

MAINTENANCE: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT DAILY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED/REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

CONSTRUCTION SEQUENCE:

1. CLEAR AND GRUB AS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES.
2. INSTALL SILT FENCE / COMPOST FILTER SOCK.
3. CONSTRUCT SANITARY IMPROVEMENTS.
4. PERMANENTLY STABILIZE/SEED DISTURBED AREAS PER SPECIFICATIONS.
5. REMOVE REMAINING EROSION AND SEDIMENT CONTROL DEVICES.

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.

SITE DATA	
TOTAL ACREAGE WITHIN PROJECT AREA:	1.76 AC
TOTAL DISTURBED ACREAGE:	0.84 AC
PRE PROJECT IMPERVIOUS SITE AREA:	0.30 AC
PRE PROJECT % IMPERVIOUS SITE AREA:	0.17 %
POST PROJECT IMPERVIOUS SITE AREA:	0.59 AC
POST PROJECT % IMPERVIOUS SITE AREA:	0.34 %

RUNOFF COEFFICIENT: THE RUNOFF CURVE NUMBER WILL NOT INCREASE AS NO NEW IMPERVIOUS AREAS WILL BE ADDED OR REMOVED.

SOIL TYPE:
CWA CONNEAUT SILT LOAM, SHALE SUBSTRATUM, 0 TO 2 PERCENT SLOPES

OHIO EPA
FACILITY PERMIT NUMBER: NOT APPLICABLE

OHIO EPA
GENERAL PERMIT: TBD

A COPY OF THE SWPPP PLAN AND THE APPROVED OHIO EPA STORMWATER PERMIT (WITH THE SITE SPECIFIC NOI NUMBER) SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE ENGINEER, THE COUNTY INSPECTORS, AND THE OEPA AT ALL TIMES.

SITE DESCRIPTION

1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER IMPROVEMENTS COMPLETED.
2. SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE FILTERED.
3. SEDIMENT BARRIERS SUCH AS SEDIMENT FENCE SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.
4. PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER.
5. THE LIMITS OF SEEDING AND MULCHING WILL EXTEND OVER THE PROJECT AREA IN ACCORDANCE WITH THE LEVEL OF DISTURBANCE ASSOCIATED WITH THE ACTUAL CONSTRUCTION SEQUENCE. ALL AREAS NOT DESIGNATED TO BE SEEDDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

MAINTENANCE & INSPECTIONS

1. ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED.
2. AT A MINIMUM, CONTROLS ONSITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 1/2 INCH OF RAIN PER 24-HOUR PERIOD. THE PERMITTEE SHALL ASSIGN QUALIFIED INSPECTION PERSONNEL TO CONDUCT THESE INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND TO EVALUATE WHETHER THE SWP3 IS ADEQUATE AND PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULED PROPOSED DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.
3. THE PERMITTEE SHALL MAINTAIN FOR THREE YEARS FOLLOWING THE SUBMITTAL OF A NOTICE OF TERMINATION FORM, A RECORD SUMMARIZING THE RESULTS OF THE INSPECTIONS, NAMES OF QUALIFIED PERSONNEL MAKING THE INSPECTIONS, THE DATES OF INSPECTIONS, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3 AND A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3 AND THE PERMIT AND IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. THE RECORD AND CERTIFICATION SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THE GENERAL PERMIT.

CONTRACTOR RESPONSIBILITIES

1. DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE ODNF RAINWATER AND LAND DEVELOPMENT MANUAL. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.
2. THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. THE SCHEDULE SHOULD INCLUDE A SEQUENCE OF THE PLACEMENT OF THE SEDIMENTATION AND EROSION CONTROL MEASURES THAT PROVIDES FOR CONTINUAL PROTECTION OF THE SITE THROUGHOUT THE EARTH MOVING ACTIVITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFF-SITE SEDIMENT SHALL BE CLEANED UP DAILY.

SILT FENCE

DESCRIPTION:
A SILT FENCE IS A SEDIMENT-TRAPPING PRACTICE UTILIZING A GEOTEXTILE FENCE, TOPOGRAPHY AND SOMETIMES VEGETATION TO CAUSE SEDIMENT DEPOSITION. SILT FENCE REDUCES RUNOFF'S ABILITY TO TRANSPORT SEDIMENT BY PONDING RUNOFF AND DISSIPATING SMALL RILLS OF CONCENTRATED FLOW INTO UNIFORM SHEET FLOW. SILT FENCE IS USED TO PREVENT SEDIMENT-LADEN SHEET RUNOFF FROM ENTERING INTO DOWNSTREAM CREEKS AND SEWER SYSTEMS.

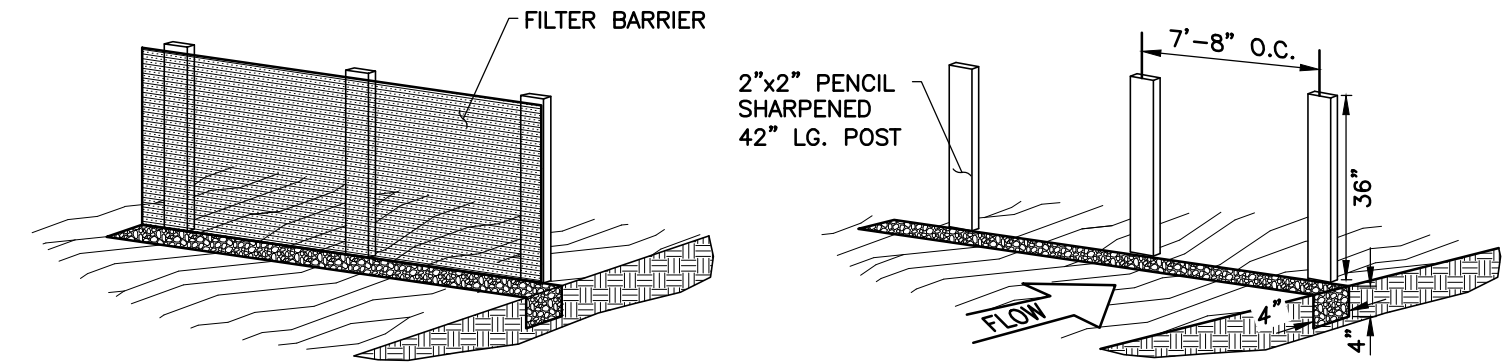
SPECIFICATIONS FOR SILT FENCE

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
9. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCHES OVERLAP PRIOR TO DRIVING INTO THE GROUND. (SEE DETAILS)
10. MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
11. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS:

1. FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 42 INCHES LONG. WOOD POSTS WILL BE 2"-2 1/2" INCH NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
2. SILT FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	< OR = 0.84 MM	ASTM D4751
MINIMUM PERMITTIVITY	1X10-2 SEC. -1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

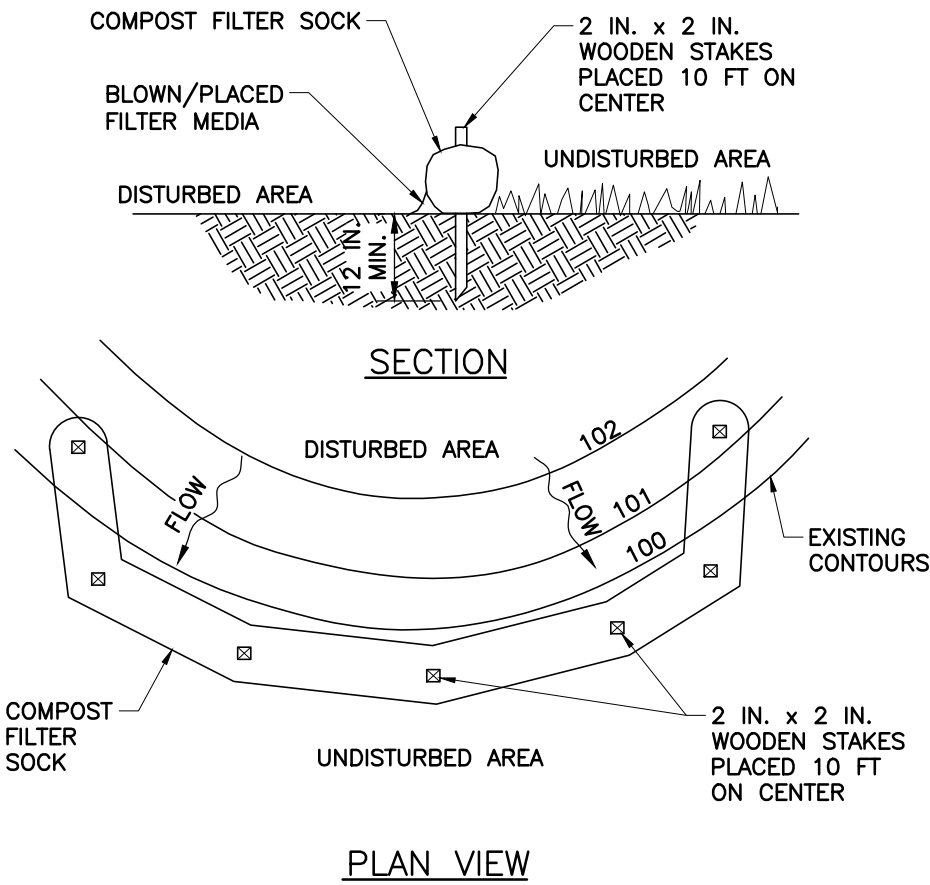


NOTE:
THE USE OF STRAW WATTLES HAS BEEN PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.

STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER PER THE OEPA.

ADDITIONALLY:
THE USE OF COMPOST FILTER SOCKS AND COMPOSITE BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES

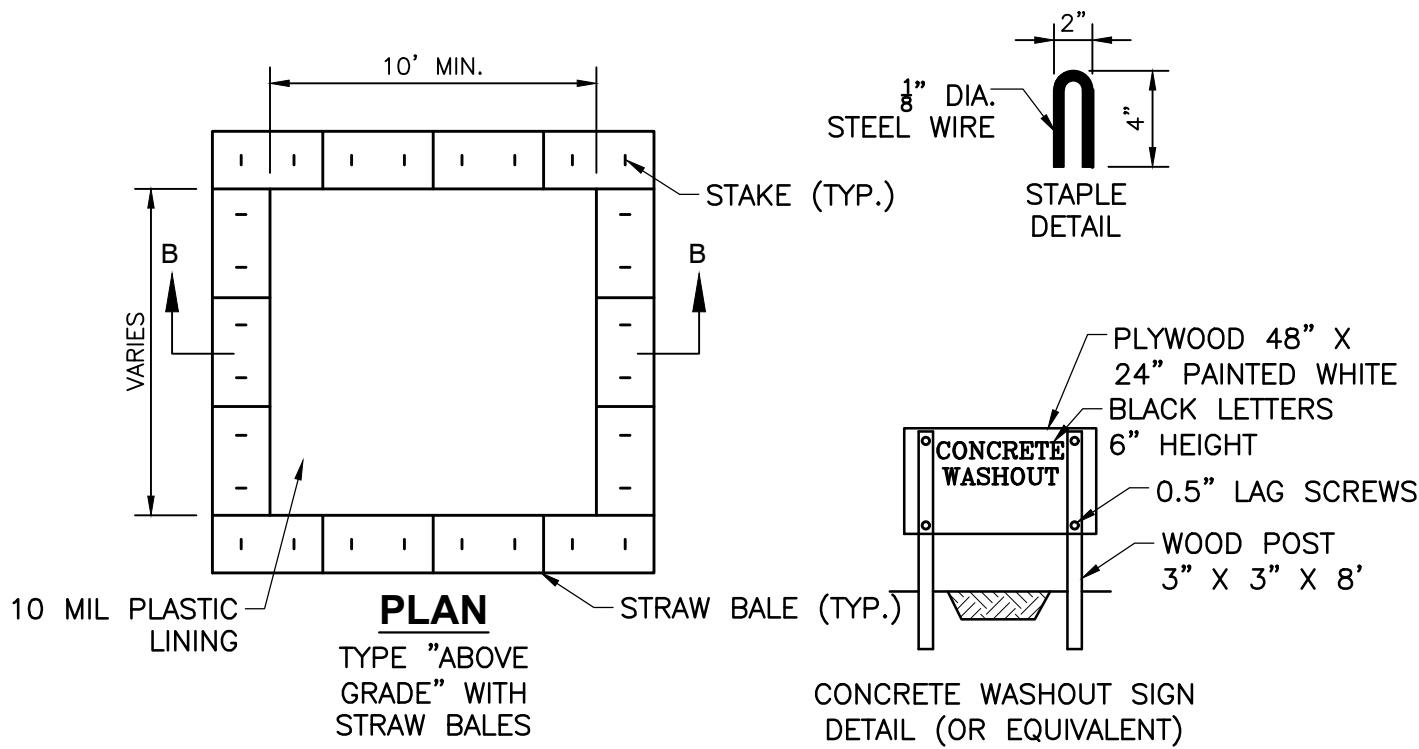
SILT FENCE DETAIL
NOT TO SCALE



MAXIMUM SLOPE LENGTHS AND RECOMMENDED FILTER SOCK DIAMETER						
SLOPE	8"	12"	18"	24"	32"	
0% - 2%	125'	250'	300'	350'	400'	
2% - 10%	100'	125'	200'	250'	300'	
10% - 20%	75'	100'	150'	200'	250'	
20% - 50%	---	50'	75'	100'	125'	
>50%	---	25'	50'	75'	100'	

COMPOST FILTER SOCK

N.T.S.

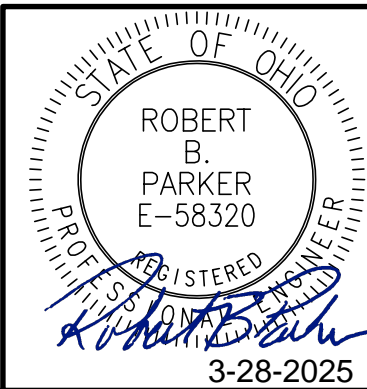


CONCRETE WASHOUT FACILITY

N.T.S.

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



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ARCOLA CREEK PARK
SITE IMPROVMENTS
LAKE METROPARKS
LAKE COUNTY, OHIO

EROSION & SEDIMENT CONTROL DETAILS

DATE:	JAN. 2025	DRAWN BY:	GCL
DWG SCALE:	AS NOTED	CHECKED BY:	BL
PROJECT NO.	347-085		
APPROVED BY:			RBP

DRAWING NO.:

16

SHEET 16 OF 17

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DORMANT SEEDING

1. SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.
2. THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING":
- FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
 - FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZER, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.
 - WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.
- MULCHING
1. MULCH MATERIALS SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL.
2. MATERIALS
- STRAW – IF STRAW IS USED IT SHALL BE UNROTTEN SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 POUNDS (TWO TO THREE BALES) PER 1,000 SQ. FT. THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY APPLIED SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45-LB. BALES OF STRAW IN EACH SECTION.
 - HYDROSEEDERS – IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE APPLIED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
 - OTHER – OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.
3. STRAW AND MULCH ANCHORING METHODS
- STRAW AND MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.
- MECHANICAL – A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY, BE LEFT LONGER THAN 6 INCHES.
 - MULCH NETTING – NETTING SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
 - ASPHALT EMULSION – ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT THE RATE OF 160 GALLONS PER ACRE.
 - SYNTHETIC BINDERS – SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUIVALENT MAY BE USED AT RATES SPECIFIED BY THE MANUFACTURER.
 - WOOD CELLULOSE FIBER – WOOD CELLULOSE FIBER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE CONTAINING A MAXIMUM OF 50 POUNDS CELLULOSE PER 100 GALLONS OF WATER.
- IRRIGATION
- PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY WEATHER OR ON ADVERSE SITE CONDITIONS, WHICH REQUIRE ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH.
- IRRIGATION RATES SHALL BE MONITORED TO PREVENT EROSION AND DAMAGE TO SEEDED AREAS FROM EXCESSIVE RUNOFF.

PERMANENT SEEDING
N.T.S.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
N.T.S.

PERMANENT SEEDING			
SEED MIX	SEEDING RATE		NOTES
	LBS./ACRE	LBS./1,000 SQ. FEET	
GENERAL USE			
CREEPING RED FESCUE	20-40	1/2-1	FOR CLOSE MOWING & FOR WATERWAYS WITH < 2.0 FT/SEC VELOCITY
DOMESTIC RYEGRASS	10-20	1/4-1/2	
KENTUCKY BLUEGRASS	20-40	1/2-1	
TALL FESCUE	40-50	1-1 1/4	
TURF-TYPE (DWARF) FESCUE	90	2 1/4	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40-50	1-1 1/4	
CROWN VETCH	10-20	1/4-1/2	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	1/2-3/4	
FLAT PEA	20-25	1/2-3/4	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	1/2-3/4	
ROAD DITCHES AND SWALES			
TALL FESCUE	40-50	1-1 1/4	
TURF-TYPE (DWARF) FESCUE	90	2 1/4	
KENTUCKY BLUEGRASS	5	0.1	
LAWNS			
KENTUCKY BLUEGRASS	100-120	2	FOR SHADED AREAS
PERENNIAL RYEGRASS		2	
KENTUCKY BLUEGRASS	100-120	2	
CREEPING RED FESCUE		1-1/2	

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED.

SITE PREPARATION

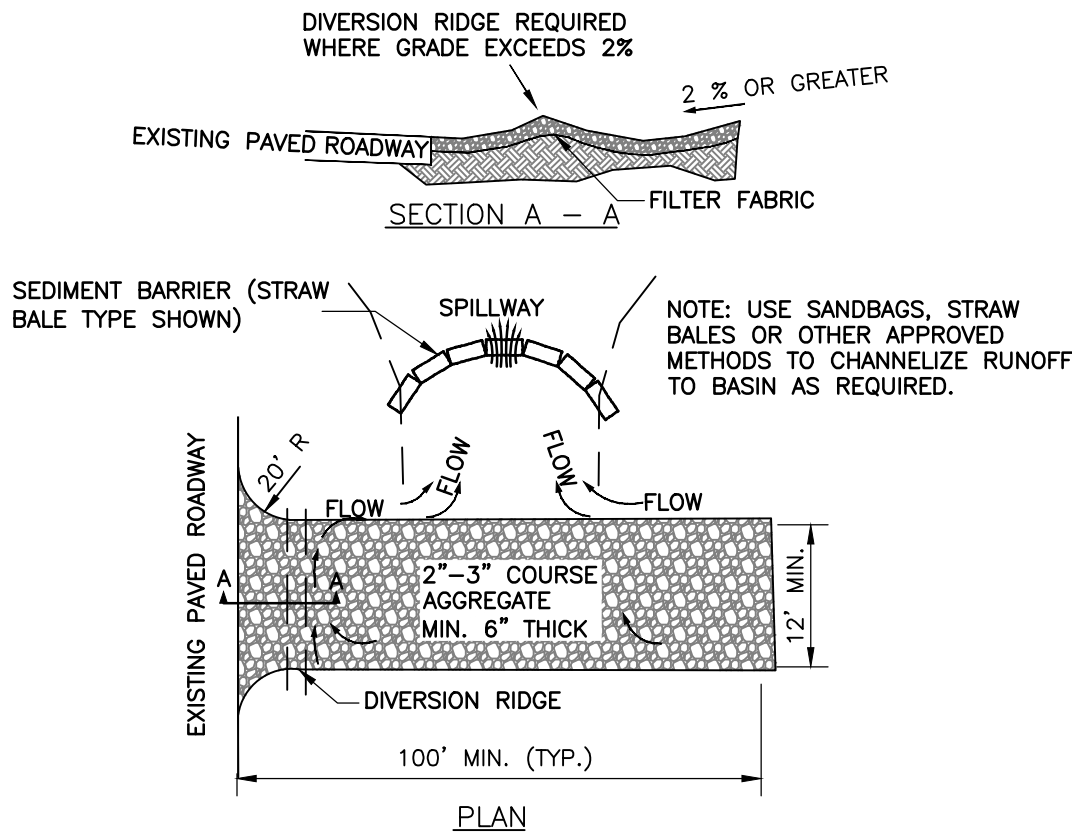
1. SUBSOILER, PLOW, OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
2. THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
3. TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

SEEDBED PREPARATION

1. LIME – AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1,000 SQ. FT. OR 2 TONS PER ACRE.
2. FERTILIZER – FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN PLACE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25 POUNDS PER 1,000 SQ. FT. OR 1000 POUNDS PER ACRE OF A 10-10-10 OR 12-12-12 ANALYSES.
3. THE LIME AND FERTILIZER SHALL BE WORKING INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

SEEDING DATES AND SOIL CONDITIONS

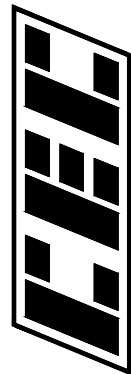
SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE-SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

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ARCOLA CREEK PARK
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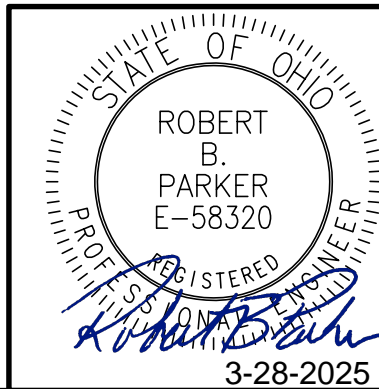
EROSION & SEDIMENT CONTROL DETAILS

DATE:	JAN. 2025	DRAWN BY:	GCL
DWG SCALE:	AS NOTED	CHECKED BY:	BL
PROJECT NO:	347-085	APPROVED BY:	RBP

DRAWING NO.:

17

SHEET 17 OF 17




PROJECT INFORMATION


PROJECT NAME: ARCOLA CREEK PARK
PROJECT I.D. : ACP01
SITE ADDRESS: 941 DOCK RD
CITY / STATE: MADISON TWP, OH 44057

SHEET SCHEDULE			
SHEET	CONTENTS		
G0	TITLE PAGE, SHEET & REVISION SCHEDULE		
G1	GENERAL NOTES / SYMBOL LEGEND		
G2	DESIGN CRITERIA AND CODE SUMMARY		
A1.1	FLOOR PLAN		
A1.2	ADA CLEARANCES		
A1.3	ADA RESTROOM FIXTURE DETAILS		
A1.4	INTERIOR ELEVATIONS VIEWS		
A2.1	EXTERIOR ELEVATION VIEWS		
A2.2	EXTERIOR ELEVATION VIEWS		
A3.1	SECTION VIEWS		
A3.2	SECTION VIEWS		
A4.1	WALL FINISH SCHEDULE (INTERIOR/EXTERIOR)		
A4.2	WALL FINISH DETAILS		
A4.3	WALL FINISH DETAILS		
A5.1	DOOR SCHEDULE		
A5.2	DOOR DETAILS		
A5.3	SIGN DETAILS		
S7.1	FOUNDATION PLAN		
S7.2	FOUNDATION DETAILS		
S7.3	FOUNDATION DETAILS		
S8.1	STRUCTURAL CMU PLAN		
S8.2	STRUCTURAL CMU REBAR LAYOUT		
S8.3	STRUCTURAL CMU DETAILS		
S8.4	STRUCTURAL CMU ELEVATION VIEWS		
S8.5	STRUCTURAL CMU ELEVATION VIEWS		
S9.1	ROOF FRAMING PLAN		
S10.1	ROOF CONNECTION DETAILS		
S10.2	ROOF CONNECTION DETAILS		
S10.3	ROOF CONNECTION DETAILS		
R1	ROOFING PLAN		
R2	ROOFING DETAILS		
R3	ROOFING DETAILS		
P1	PLUMBING SCHEDULE		
P2	PLUMBING PLAN		
M1	MECHANICAL PLAN		
E1	ELECTRICAL SCHEDULE		
E2	ELECTRICAL PLAN		
E3	ELECTRICAL RISER DETAILS		
REVISION SCHEDULE			
REV.	DATE	BY	DESCRIPTION
1	3/12/2025	ZW	G2, S7.1, S7.2, S7.3

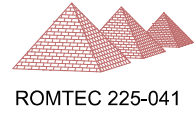
03/12/2025



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info@structure1.com

ROMTEC 225-041

PROJECT: ARCOLA CREEK PARK RESTROOM
MADISON TWP, OH

SHEET TITLE: TITLE SHEET
REVISION & SHEET SCHEDULE

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

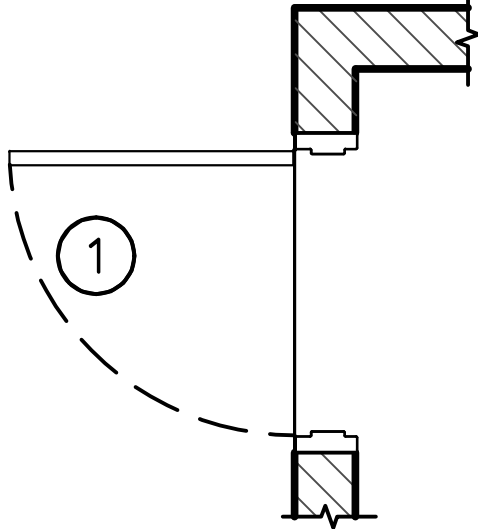
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REVISIONS:

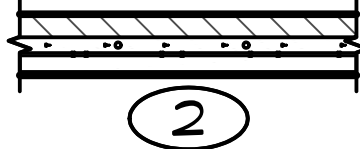
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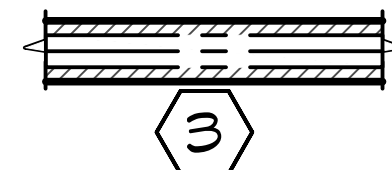
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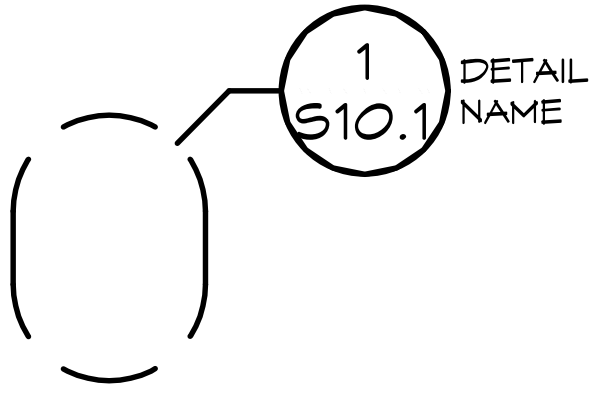
DOOR NUMBER - SEE APPLICABLE SCHEDULE



VENT NUMBER OR WINDOW NUMBER - SEE APPLICABLE SCHEDULE

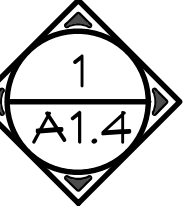


WOOD FILLER WALL - SEE APPLICABLE SCHEDULE

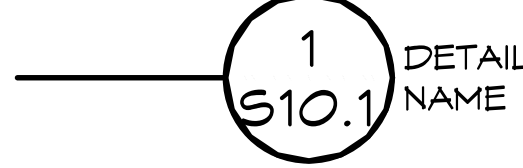


DETAIL NO. SHEET NO.

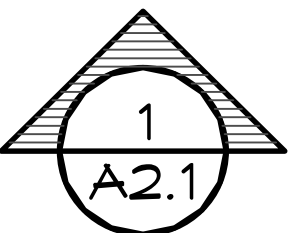
DETAIL NAME



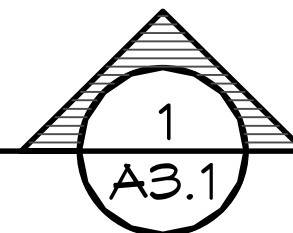
INTERIOR ELEVATION REFERENCE



DETAIL REFERENCE



ELEVATION VIEW



BUILDING SECTION

ABBREVIATIONS			
AB	ANCHOR BOLT	MO	MASONRY OPENING
ACT	ADULT CHANGING TABLE	MR	METAL ROOFING
AFF	ABOVE FINISHED FLOOR	MS	MILD STEEL
ATS	AUTOMATIC TRANSFER SWITCH	ND	NAPKIN DISPOSAL
BN	BOUNDARY NAIL	NTS	NOT TO SCALE
BOT	BOTTOM	OC	ON CENTER
BP	BREAKER PANEL	OCEW	ON CENTER EACH WAY
CJ	CONTROL JOINT	OSB	ORIENTED STRAND BOARD
CL	CENTER LINE	P	PHOTO EYE
CO	CLEAN OUT	PCC	PORTLAND CEMENT COMPANY
CMU	CONCRETE MASONRY UNIT	PEN	PANEL EDGE NAILING
db	NOMINAL BAR DIAMETER	PL	PLATE
DD	DIAPER DECK	PSF	POUNDS PER SQUARE FOOT
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DISC	DISCONNECT	PT	PRESSURE TREATED
EM	ELECTRIC METER	PTD	PAPER TOWEL DISPENSER
EN	END NAIL	PV	PHOTO VOLTAGE
EW	EACH WAY	R4S	ROUGH FOUR SIDES
FA	FREE AIR	REQD	REQUIRED
FD	FLOOR DRAIN	RO	ROUGH OPENING
FF	FINISHED FLOOR	S4S	SURFACED FOUR SIDES
FG	FINISHED GRADE	SCH	SCHEDULE
FN	FIELD NAIL	SD	SOAP DISPENSER
FRP	FIBERGLASS REINFORCED PANEL	SIP	STRUCTURAL INSULATED PANEL
GB	GRAB BAR	SJ	SAW JOINT
GLB	GLUE LAMINATED BEAM	SM	SHEET METAL
HB	HOSE BIBB	SN	SHEAR NAILING
HD	HAND DRYER	SS	STAINLESS STEEL
HM	HOLLOW METAL (DOOR)	TBD	TO BE DETERMINED
HSS	HOLLOW STRUCTURAL SECTIONS	T&B	TOP & BOTTOM
HTR	HEATER	T&G	TONGUE & GROOVE
HYP	HYPOTENUSE	TLT	TOILET
I.S.	INSTALLER SUPPLIED	TP	TOILET PAPER DISPENSER
KSI	KIPS PER SQUARE INCH	TS	TIMER SWITCH
L	STRUCTURAL STEEL ANGLE	TSCD	TOILET SEAT COVER DISPENSER
LAV	LAVATORY	TYP	TYPICAL
LF	LIGHT FIXTURE	UNO	UNLESS NOTED OTHERWISE
MBP	MAIN BREAKER PANEL	VB	VAPOR BARRIER
MD	MAIN DISCONNECT	VTR	VENT THROUGH ROOF
MIN	MINIMUM	WH	WATER HEATER
MIR	MIRROR	WWM	WOVEN WIRE MESH
		W/	WITH

- GENERAL NOTES
1. THIS PROJECT SHALL COMPLY WITH ALL CODES AND STANDARDS IDENTIFIED ON SHEET G2. ALL WORK SHALL MEET OR EXCEED INDUSTRY STANDARDS FOR MATERIALS, WORKMANSHIP, ETC.

2. CONTRACTOR SHALL REVIEW THE DRAWINGS THOROUGHLY BEFORE PROCEEDING WITH ANY WORK. ANY DISCREPANCIES FOUND WITHIN THESE DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF ROMTEC. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK HE KNOWS TO BE IN CONFLICT WITH OTHER WORK, OR IS NOT APPROVED BY CODE, UNTIL RESOLVED BY ROMTEC OR THE ENGINEER/ARCHITECT.

3. CONTRACTOR SHALL MAINTAIN GENERAL LIABILITY INSURANCE AND WORKER'S COMP. INSURANCE AS PER SPECIFIC STATE MINIMUM REQUIREMENTS.

4. FOOTINGS SHALL BE CONSTRUCTED ON UNDISTURBED NATIVE SOIL OR ENGINEER APPROVED FILL. CONTRACTOR TO VERIFY ASSUMED SOIL BEARING CAPACITY NOTED ON SHEET G2. SHOULD SOIL NOT MEET OR EXCEED THE ASSUMED SOIL BEARING CAPACITY, CONTRACTOR TO MODIFY SOIL CONDITIONS TO SATISFY CRITERIA OR NOTIFY THE STRUCTURAL ENGINEER TO REVISE DESIGN PER CONDITIONS ENCOUNTERED. BACKFILL AROUND BUILDING TO PROVIDE SLOPE AWAY FROM BUILDING NOT LESS THAN A 2% SLOPE FOR A MINIMUM DISTANCE OF 10' FROM THE BUILDING, PER 2021 IBC 1804.3.

5. A. CAST-IN-PLACE CONCRETE: 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 4" +/- 1" SLUMP, WITH MAX 1" AGGREGATE, AND ALL MATERIALS IN ACCORDANCE WITH ACI 318 STANDARDS. FINE BROOM FINISH INTERIOR SURFACES AND EXTERIOR SLABS. JOINTS REQUIRED IN FLAT WORK, SEE FOUNDATION DETAILS FOR REQUIREMENTS.
B. CMU BLOCKS "MEDIUM WEIGHT DENSITY" ARE MANUFACTURED TO ASTM C90-02 STANDARDS WITH A MIN COMPRESSIVE STRENGTH f_m = 1500 PSI. ALL CMU BLOCKS MUST BE FULLY GROUTED IN 5 FT MAXIMUM LIFTS (EXCEPTION - HIGH LIFT GROUTING FOR 8'-8" WALLS MAYBE USED AS LONG AS CLEANOUT OPENINGS ARE PROVIDED AT THE BOTTOM OF EVERY CELL FOR EACH POUR ABOVE 5 FT). THE MORTAR TO BE USED SHALL BE TYPE S 1800 PSI MORTAR CONFORMING TO ASTM C270. MASONRY (CONCRETE) GROUT: 2500 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 9" +/- 1" SLUMP, WITH MAX 1/2" AGGREGATE, AND TESTED IN ACCORDANCE TO MEET ACI 318. FINE OR COURSE GROUT MAY BE USED IN ACCORDANCE WITH 2021 IBC. CONSOLIDATE GROUT AT THE TIME OF PLACEMENT. CONSOLIDATE POURS EXCEEDING 12 IN. IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. CONSOLIDATION AND RECONSOLIDATION ARE NORMALLY ACHIEVED WITH A MECHANICAL VIBRATOR. A LOW VELOCITY VIBRATOR WITH A 3/4 IN. HEAD IS USED.

6. ANCHOR AND MACHINE BOLTS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE BOLTS SHALL BE INSTALLED PER TURN-OF-NUT INSTALLATION METHOD, REQUIRED TURNS FOR PRE-TENSIONING FROM SNUG-TIGHT, U.N.O. IN THIS PLAN SET OR BY ANCHOR BOLT OR FASTENER MANUFACTURER. SCREWS AND MACHINE BOLT CALLOUTS ARE MINIMUM SIZE ALLOWED, ACTUAL SIZE MAY VARY. HOLLOW STRUCTURAL SECTION (HSS) SHALL BE ASTM A500 GRADE B, F_y = 46 ksi. WIDE FLANGE BEAMS SHALL BE ASTM A992, F_y = 50 ksi. STEEL PLATES & SHAPES SHALL BE ASTM A36, F_y = 36 ksi. CONCRETE REINFORCING STEEL (REBAR): 60 ksi. (GRADE 60). WOOD FRAMING SHALL BE #2 & BETTER DOUGLAS FIR, UNO. GLU-LAM BEAMS SHALL BE GRADE 24F-V4.

7. QUESTIONS CONCERNING MATERIALS OR CONSTRUCTION CONTACT ROMTEC TECHNICAL ASSISTANCE AT: 541-496-3541

8. ROMTEC SCOPE SUPPLY AND DESIGN SUBMITTAL (SSDS) IDENTIFY SPECIFIC MODEL, MANUFACTURER & BRAND OF ALL PLUMBING AND ELECTRICAL FIXTURES AND ACCESSORIES. REFER TO THE SSDS FOR SPECIFIC LIST OF ITEMS SUPPLIED BY ROMTEC, ANY ITEMS NOT LISTED IN THE SSDS IS ASSUMED SUPPLIED BY THE INSTALLER.


9. THE OWNER / CONTRACTOR MAY EXERCISE DISCRETION IN SELECTING THE FINAL LOCATION FOR NON-DIMENSIONED ACCESSORIES AND FIXTURES (E.G., LIGHTS, COMFORT HEATERS, ETC.)

NOTE: ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR ANY SITE DESIGN OR ENGINEERING AND WILL NOT BE HELD ACCOUNTABLE OR LIABLE FOR ANY ISSUES RELATED TO THIS SITE. IT IS THE OWNER'S RESPONSIBILITY TO ACCURATELY LOCATE THIS BUILDING, SET FLOOR AND ADJACENT ELEVATIONS, DETERMINE SITE IS SUITABLE FOR CONSTRUCTION, VERIFY ALL UTILITIES, ETC.


RECYCLE

RECYCLE ALL USED SHIPPING MATERIALS AND LEFT OVER BUILDING MATERIALS

03/12/2025



Exp. 12/31/2025



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info@structure1.com

PROJECT #:

ACPO1

DATE:

3/4/2025

DRAWN BY:

ZW

REV.

DATE:

BY:

REVISIONS:

SHEET NO.

G1

PROJECT:

ARCOLA CREEK PARK RESTROOM

SHEET TITLE:

MADISON TWP, OHIO

GENERAL NOTES

SYMBOL LEGEND

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CODES AND STANDARDS

2024 OHIO BUILDING CODE (IBC 2021)

2014 OHIO PLUMBING CODE (IPC 2021)

2014 OHIO MECHANICAL CODE (IMC 2021)

2023 NATIONAL ELECTRICAL CODE - (NFPA 70, 2023)

2017 OHIO FIRE CODE (IFC 2015)

2017 OHIO BUILDING CODE (ICC/ANSI A117.1 AND ADAAG)

2021 INTERNATIONAL ENERGY CONSERVATION CODE AND ASHRAE 90.1-07-2009

ACI AMERICAN CONCRETE INSTITUTE, ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"

TMS THE MASONRY SOCIETY, TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"

CODE SUMMARY:

OCCUPANCY CLASS.: U
CONSTRUCTION: VB
AREA: 222 FT²
AREA ALLOWABLE: 5500 FT²
HEIGHT: 1 STORY
HEIGHT ALLOWABLE: 1 STORY
OCCUPANT LOAD: 4

DESIGN LOADS

ROOF: SNOW LOAD 30 PSF
ROOF: DEAD LOAD 15 PSF
WALL DEAD LOAD 81 PSF
IBC SEISMIC DESIGN CATEGORY B
DESIGN WIND SPEED (ULTIMATE) 115 MPH
EXPOSURE D
ALLOWABLE SOIL BEARING 1500 PSF

SEISMIC DESIGN DATA:

RISK CATEGORY: II
IMPORTANCE FACTOR: 1.0
SS: 0.152
S1: 0.048
SITE CLASS: D
SMS: 0.243
SM1: 0.114
SDS: 0.162
SD1: 0.076
SEISMIC DESIGN CATEGORY: B
R = 5
BASE SHEAR: V = 0.032 W

WIND DESIGN :

RISK CATEGORY: II
WIND SPEED = 115 MPH
EXPOSURE: D
INTERNAL PRESSURE COEFE = ± 0.18

BEARING WALL SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALL

ANALYSIS METHOD: EQUIVALENT STATIC FORCE METHOD

SPECIAL INSPECTIONS

CONCRETE SPECIAL INSPECTION NOT REQUIRED PER IBC 1705.3
EXCEPTION 2.3 [FOOTINGS]
EXCEPTION 3 [SLAB]

SPECIAL INSPECTIONS (TMS 402-16)

TABLE 3 – MINIMUM VERIFICATION REQUIREMENTS				
MINIMUM VERIFICATION	REQUIRED FOR QUALITY ASSURANCE (a)			REFERENCE FOR CRITERIA
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 602
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS		R		ART. 1.5
PRIOR TO CONSTRUCTION, VERIFICATION OF <i>f_m</i> AND <i>f_{AAC}</i> , EXCEPT WHERE SPECIFICALLY EXEMPT BY THE CODE.		R		ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.		R		ART. 1.5 & 1.6.3
DURING CONSTRUCTION, VERIFICATION OF <i>f_m</i> AND <i>f_{AAC}</i> FOR EVERY 5,000 sq. ft. (465 sq.m).		NR		ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF PORPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.		NR		ART. 1.4 B

(a) R=REQUIRED, NR=NOT REQUIRED

TABLE 4 – MINIMUM SPECIAL INSPECTION REQUIREMENTS					
MINIMUM SPECIAL INSPECTION	REQUIRED FOR QUALITY ASSURANCE (a)			REFERENCE FOR CRITERIA	
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. PROPORTION OF SITE-PREPARED MORTAR		P			ART. 2.1 , 2.6 A, & 2.6 C
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		P			ART. 2.4 B & 2.4 H
C. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		P			ART. 3.4 & 3.6 A
D. PRESTRESSING TECHNIQUE		P			ART. 3.6 B
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY		C(b)P(c)			ART. 2.1 C.1
F. SAMPLE PANEL CONSTRUCTION		P			ART. 2.1 C.1
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE		P			ART. 3.2 D & 3.2 F
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES		P		SEC. 10.8 & 10.9	ART. 2.4 & 3.6
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		P		SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 2.4 & 3.6
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		P			ART. 2.6 B & 2.4 G.1.b
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		P			ART. 1.5
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		P			ART. 3.3 B
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS		P			ART. 3.3 F
D. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.		P		SEC. 1.2.1(e), 6.2.1 & 6.3.1	
E. WELDING OF REINFORCEMENT		C		SEC. 6.1.6.1.2	
F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F(4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F(32.2°C))		P			ART. 1.8 C & 1.8 D
G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE		C			ART. 3.6 B
H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE		C			ART. 3.5 & 3.6 C
I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS		C(b)P(c)			ART. 3.3 B.9 & 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		P			ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
NR=NOT REQUIRED, P=PERIODIC, C=CONTINUOUS

(b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

(c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

03/12/2025



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PROJECT: ARCOLA CREEK PARK RESTROOM

MADISON TWP, OHIO

SHEET TITLE: DESIGN CRITERIA & CODE SUMMARY

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV.	DATE:	BY:
1	3-12-2025	ZW

REVISIONS:

G2

SHEET NO.

WALL TYPE SCHEDULE

8" REINFORCED CONCRETE
MASONRY BLOCK WALL WITH
MORTAR JOINTS, GROUTED SOLID
ALL CELLS RUNNING BOND PATTERN

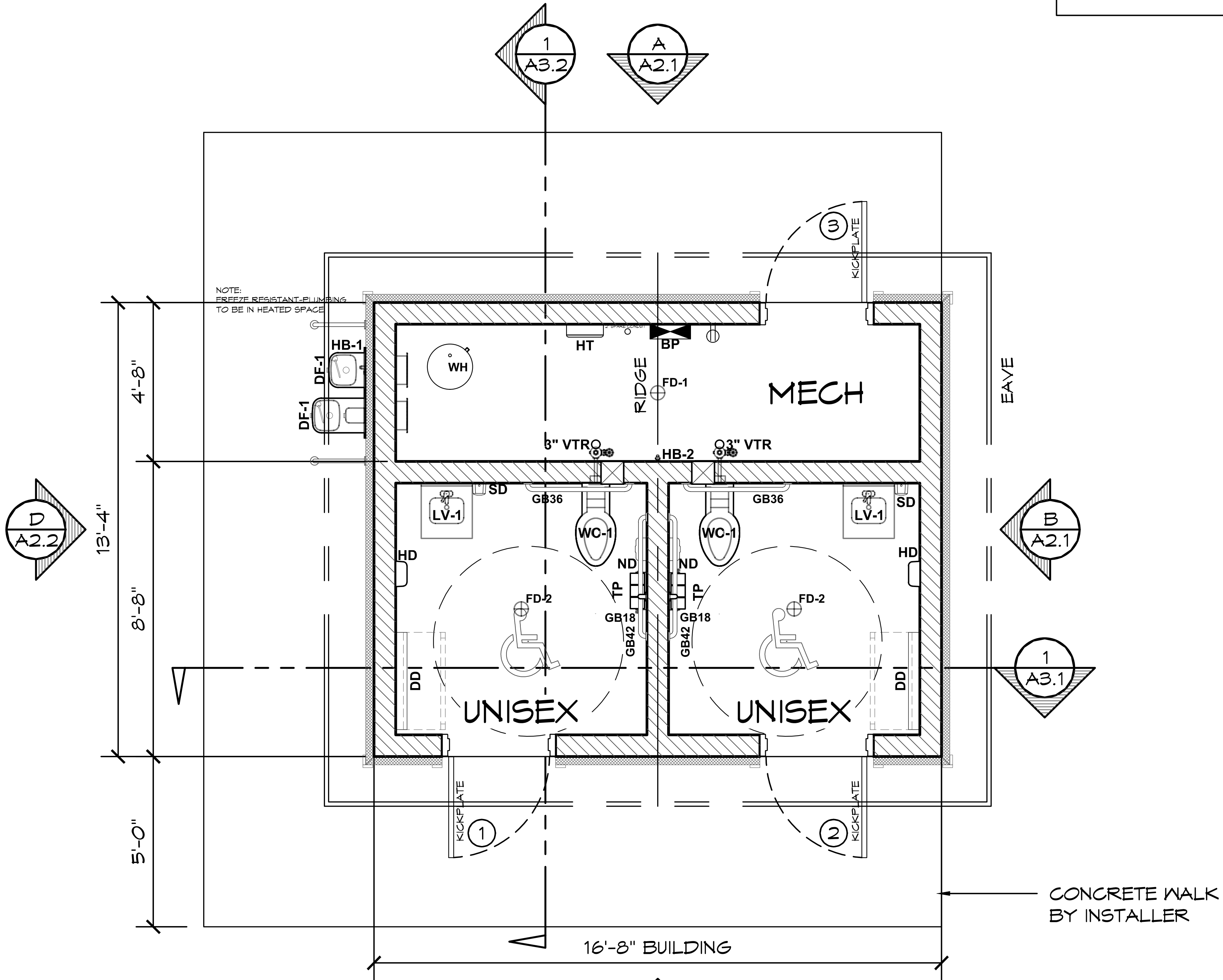
03/12/2025



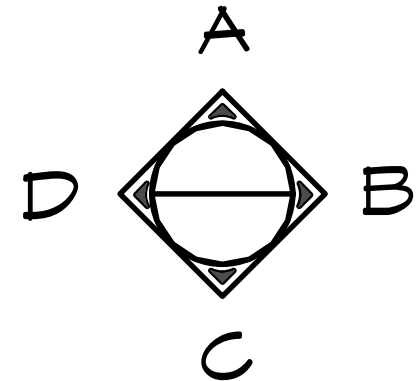
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ROMTEC 225-041



1 FLOOR PLAN
SCALE: 1/4" = 1'-0"



PROJECT: **ARCOLA CREEK PARK RESTROOM**
MADISON TWP, OHIO
SHEET TITLE: **FLOOR PLAN**

PROJECT #: **ACPO1**
DATE: **3/4/2025**
DRAWN BY: **ZW**

REV.	DATE:	BY:

REVISIONS:

SHEET NO. **A1.1**

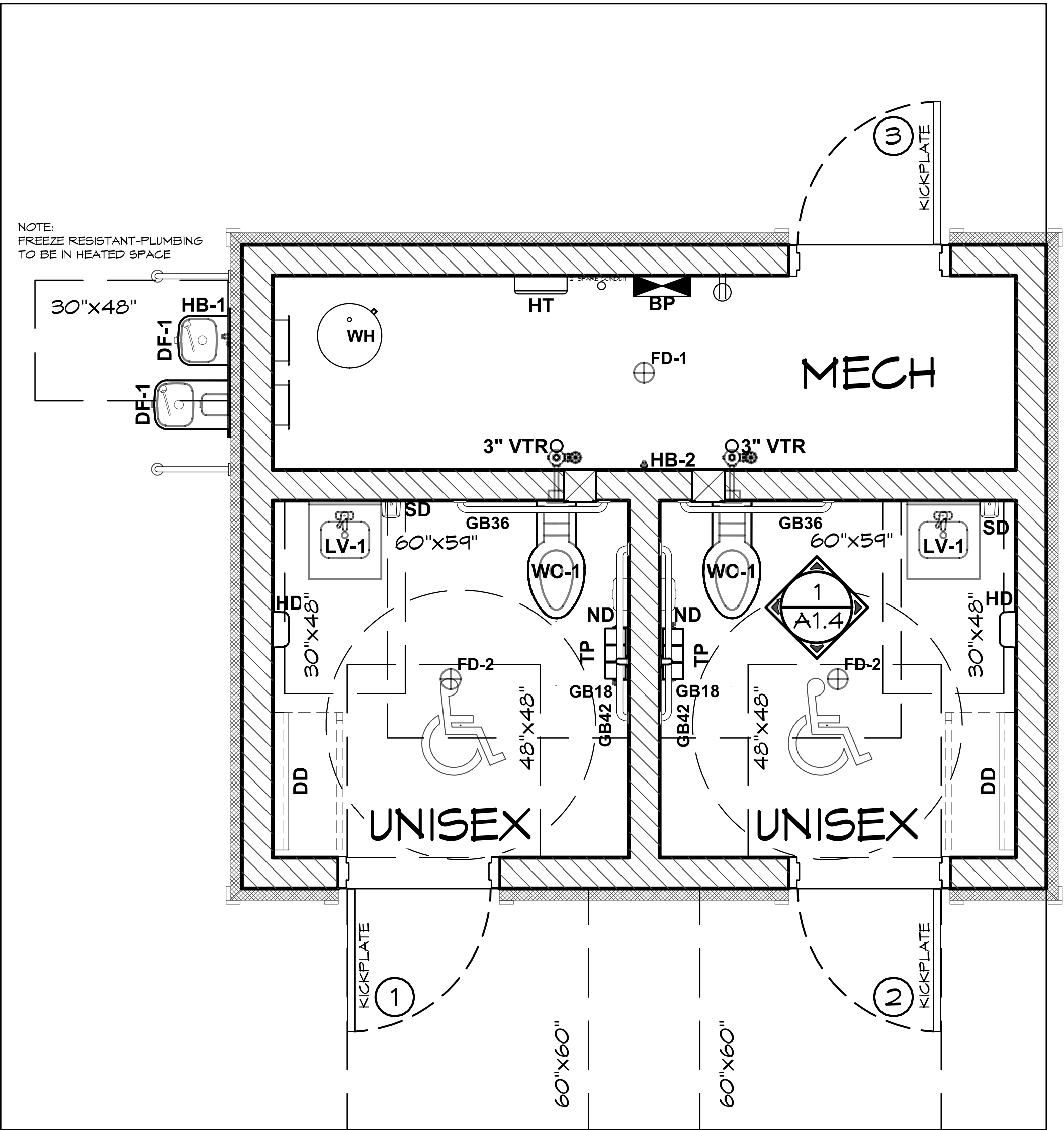
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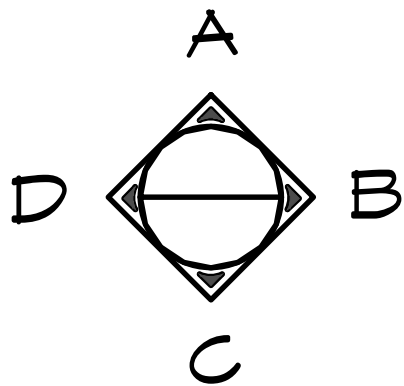
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1

ADA RESTROOM FIXTURE CLEAR FLOOR AREA

SCALE: 1/4" = 1'-0"



PROJECT: ARCOLA CREEK PARK RESTROOM
MADISON TWP, OHIO
SHEET TITLE: ADA CLEARANCES

PROJECT #: ACP01

DATE: 3/4/2025

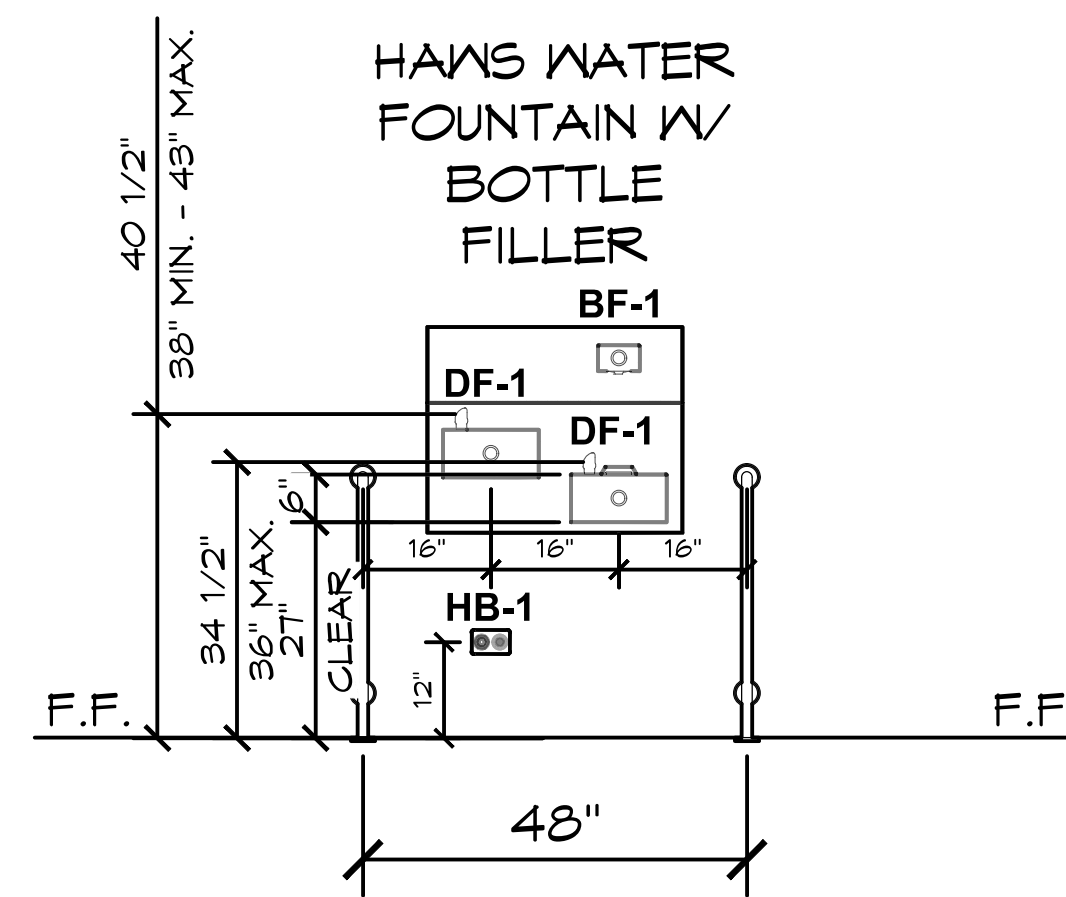
DRAWN BY: ZW

REV.	DATE:	BY:

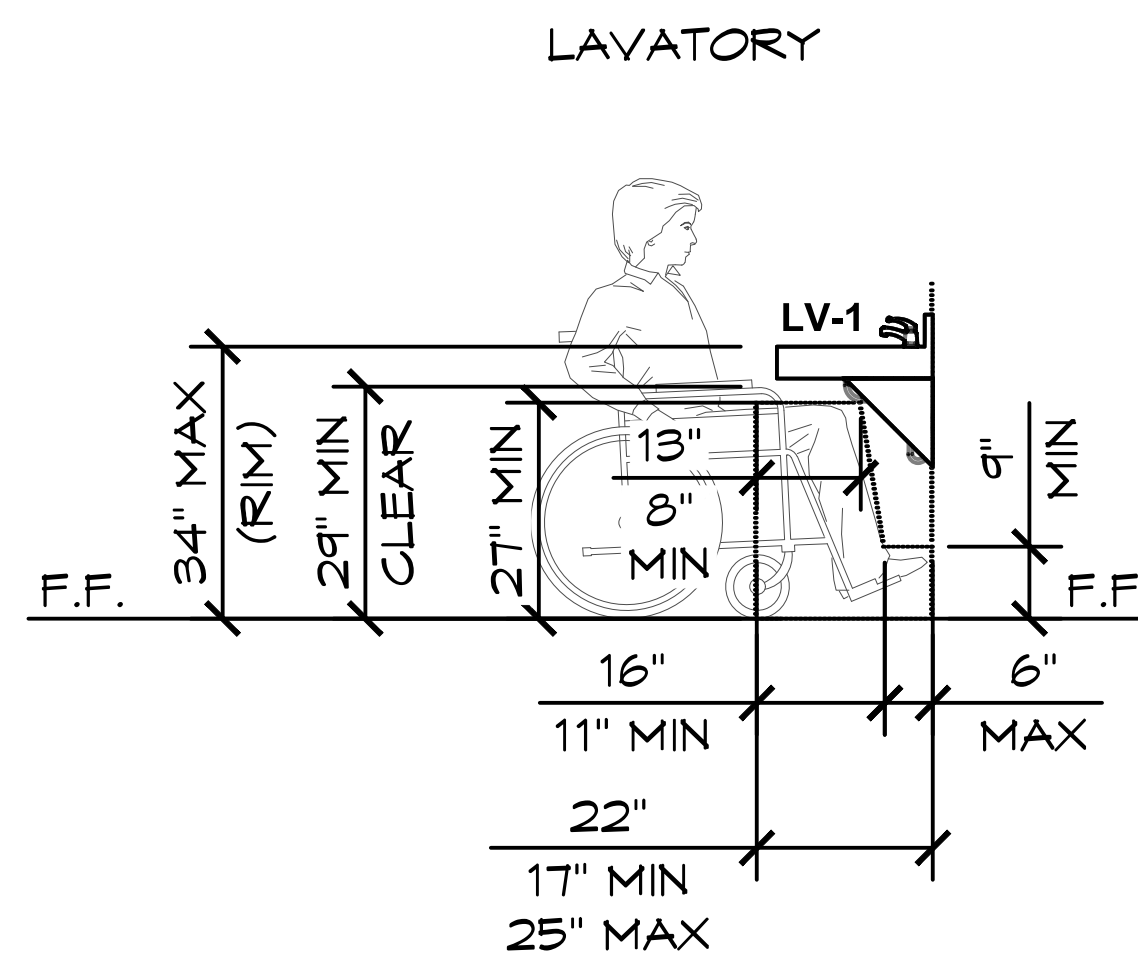
REVISIONS:

SHEET NO. A1.2

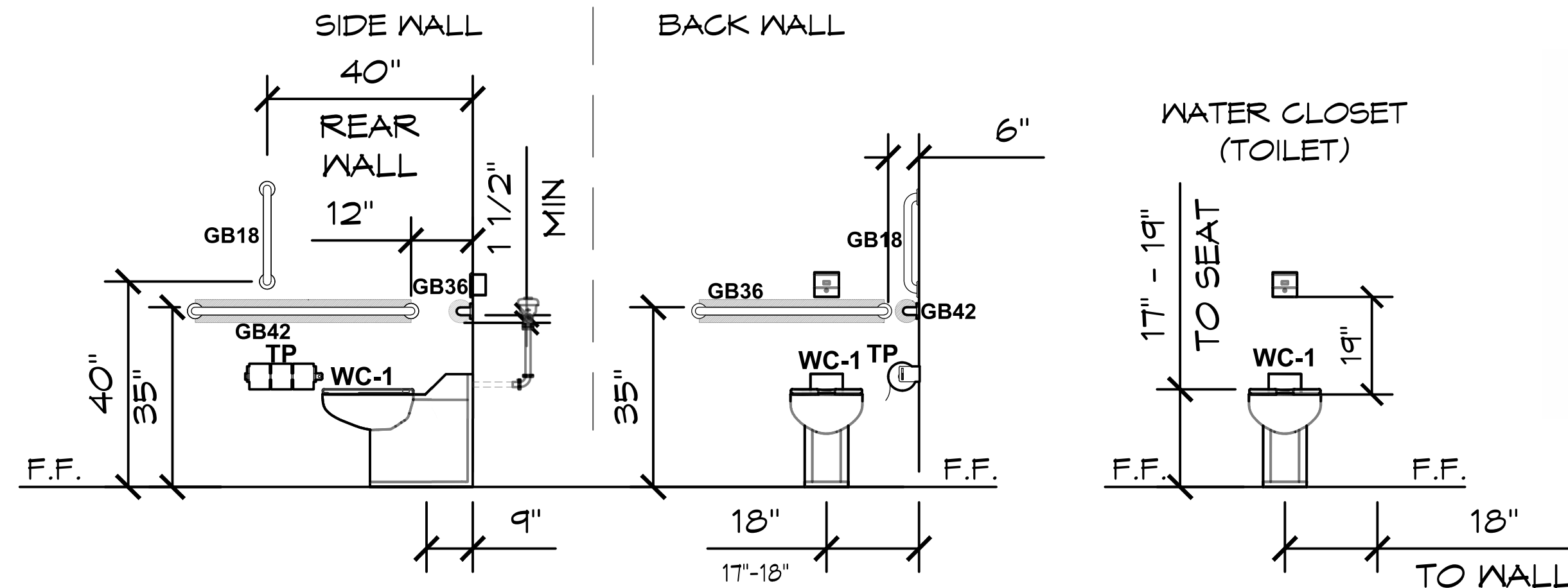
LOCATED LESS THAN 3 INCHES OF THE FRONT FACE OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.



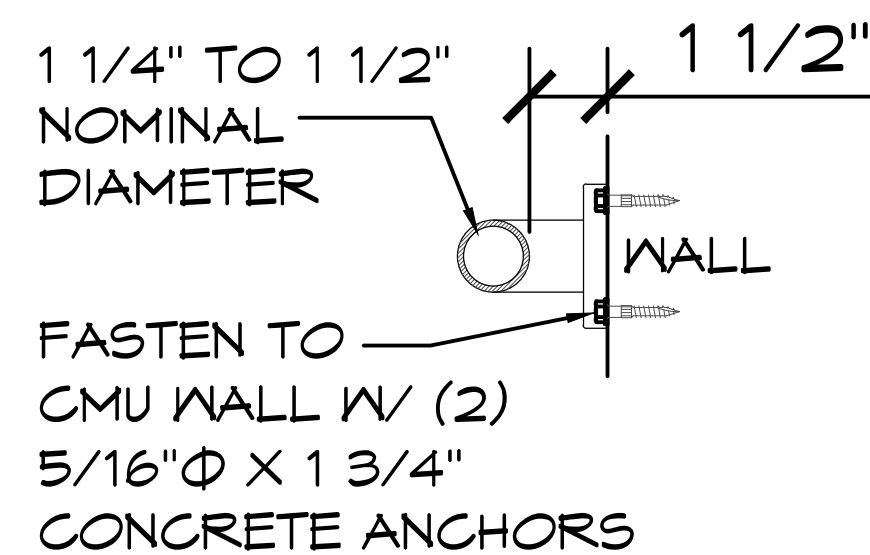
B. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. LEVER OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS. SECTION 11B-606.4.



GRAB BARS
SEE DETAIL 2/A1.3



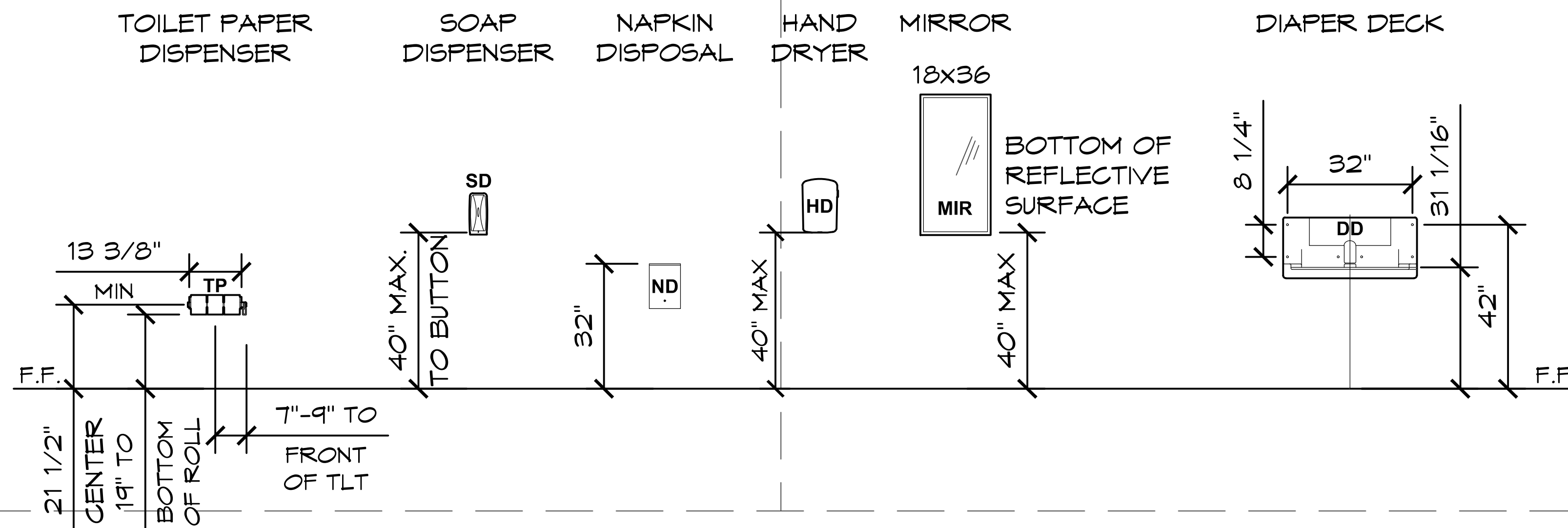
INSTALLED GRAB BARS MUST MEET 250# MINIMUM LOAD & GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS PER CODE.



2

GRAB BAR

SCALE: 1 1/2" = 1'-0"



1

ADA RESTROOM FIXTURE DETAILS

SCALE: 1/4" = 1'-0"

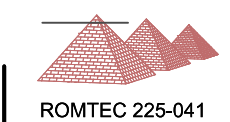
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ARCOLA CREEK PARK RESTROOM

MADISON TWP, OHIO

HEET TITLE:

ADA RESTROOM FIXTURE DETAILS

PROJECT:

PROJECT #: **ACPO1**

DATE: 3/4/2025

DRAWN BY: ZW

REV. DATE: BY:

--	--	--

REVISIONS:

815

A-1

SHEET NO. 71.5

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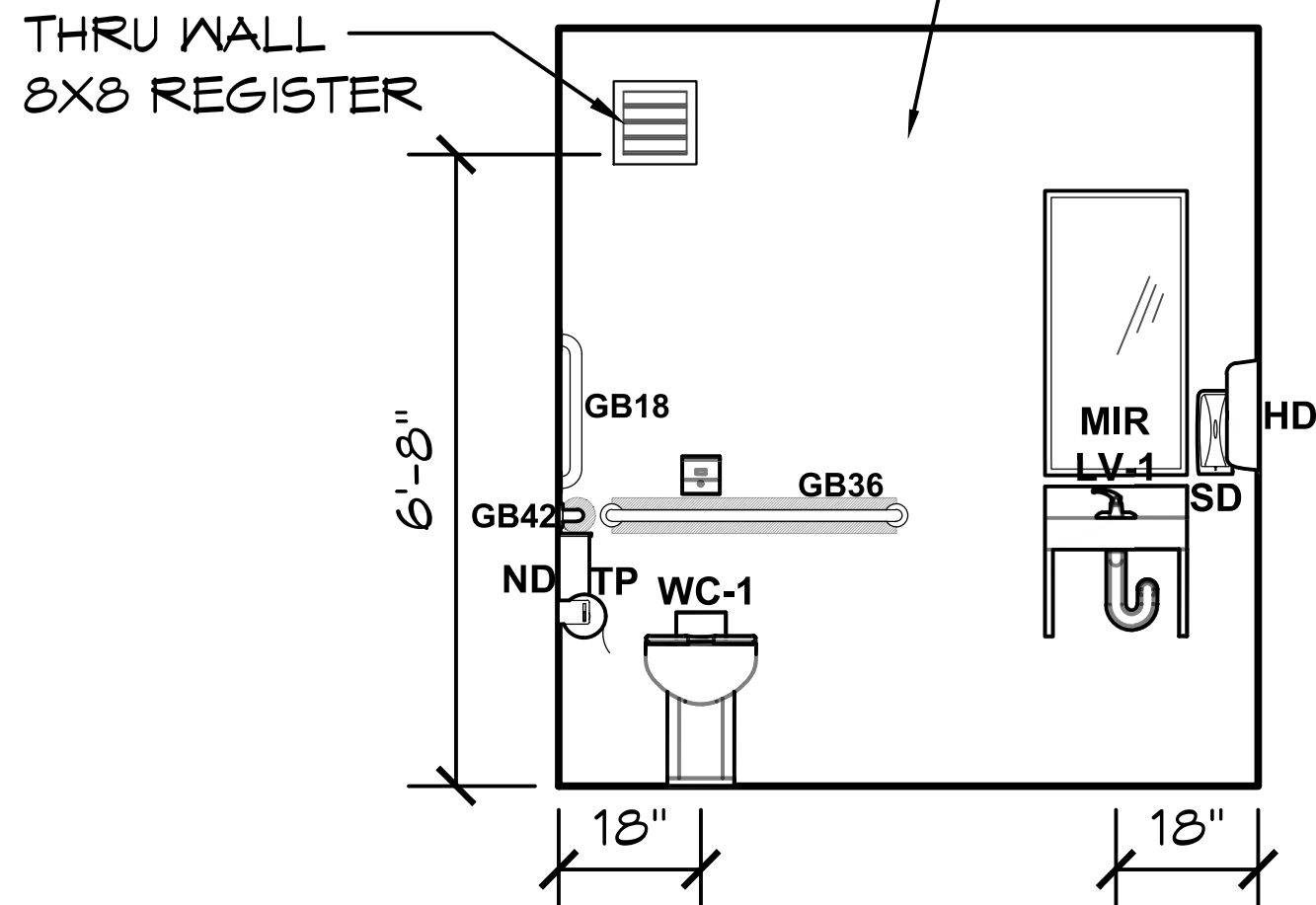


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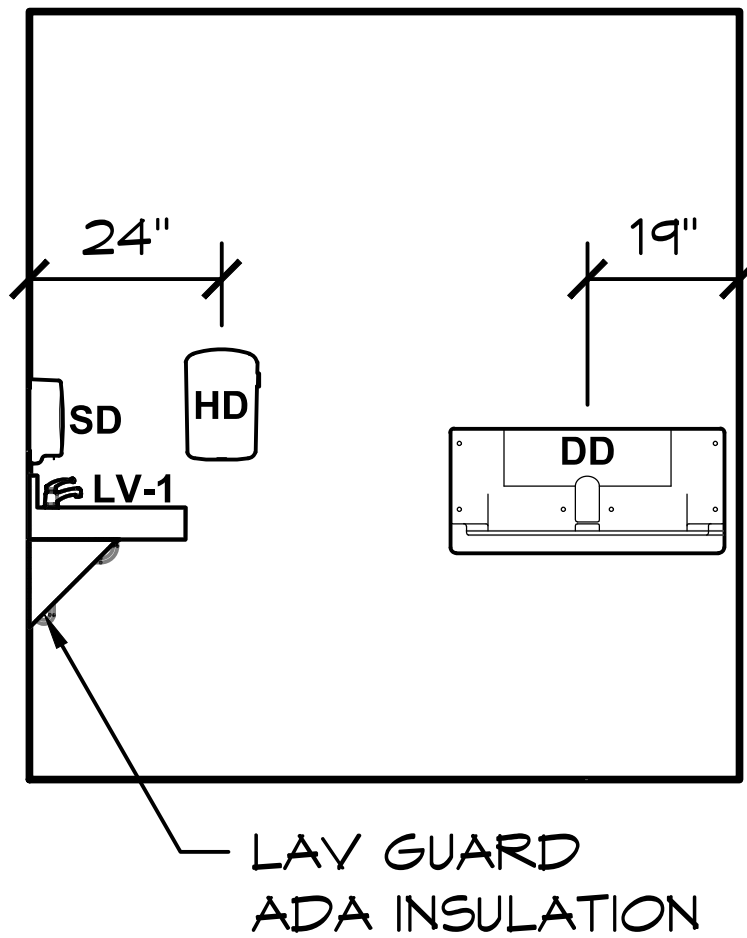
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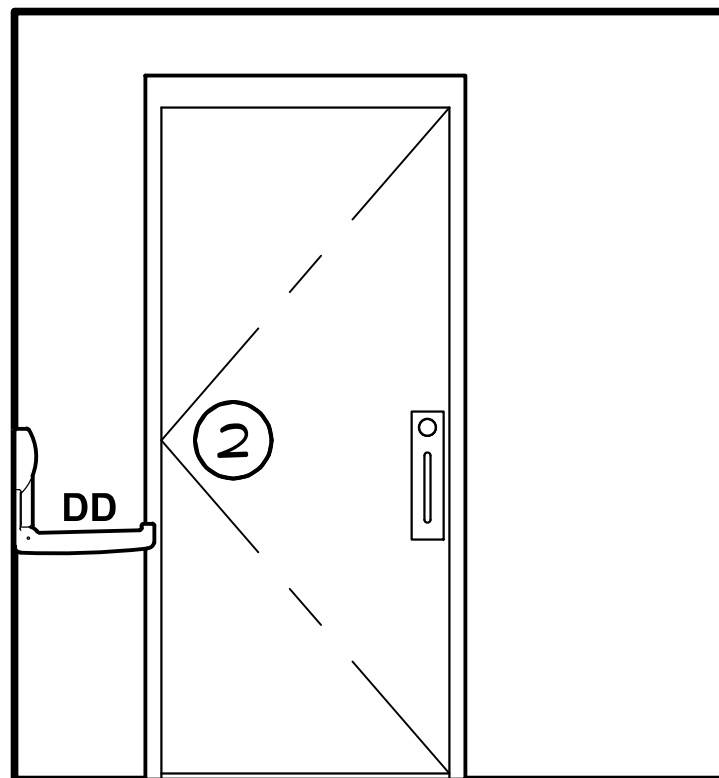
WALLS AND PARTITIONS WITHIN 2 FEET OF SERVICE SINKS,
URINALS AND WATER CLOSETS SHALL HAVE SMOOTH, HARD,
NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 4
FEET ABOVE THE FLOOR OR PER LOCAL CODE.
FOR EXTERIOR/INTERIOR FINISH SCHEDULE REFER TO SHEET A4.1



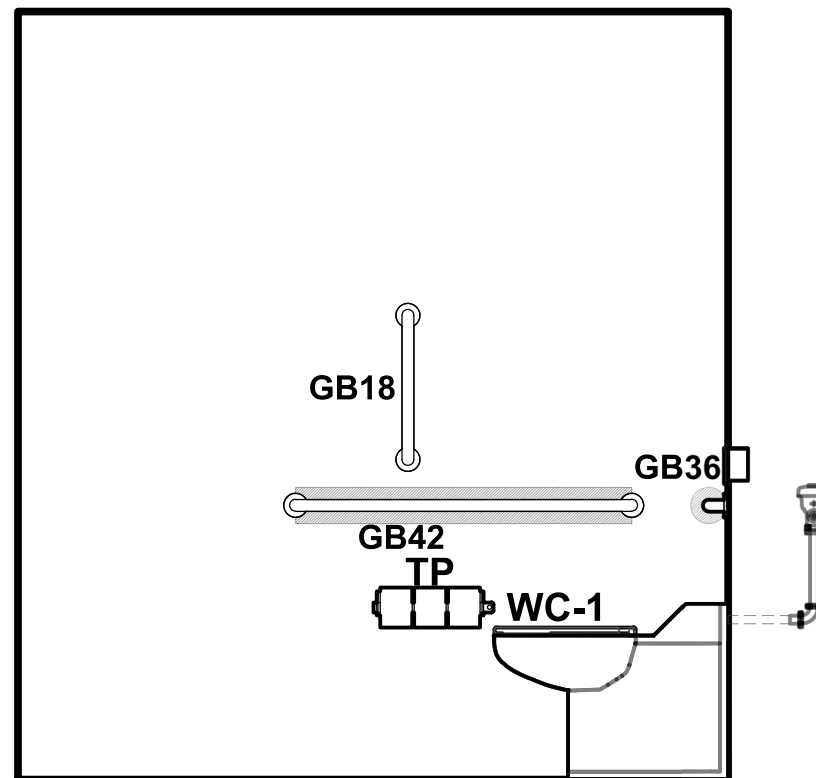
VIEW A



VIEW B



VIEW C



VIEW D

1 ADA RESTROOM INTERIOR ELEVATION VIEWS

SCALE: 1/4" = 1'-0"

PROJECT:

ARCOLA CREEK PARK RESTROOM
MADISON TWP, OHIO

SHEET TITLE:

INTERIOR ELEVATION VIEWS

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV.	DATE:	BY:

REVISIONS:

SHEET NO.

A1.4

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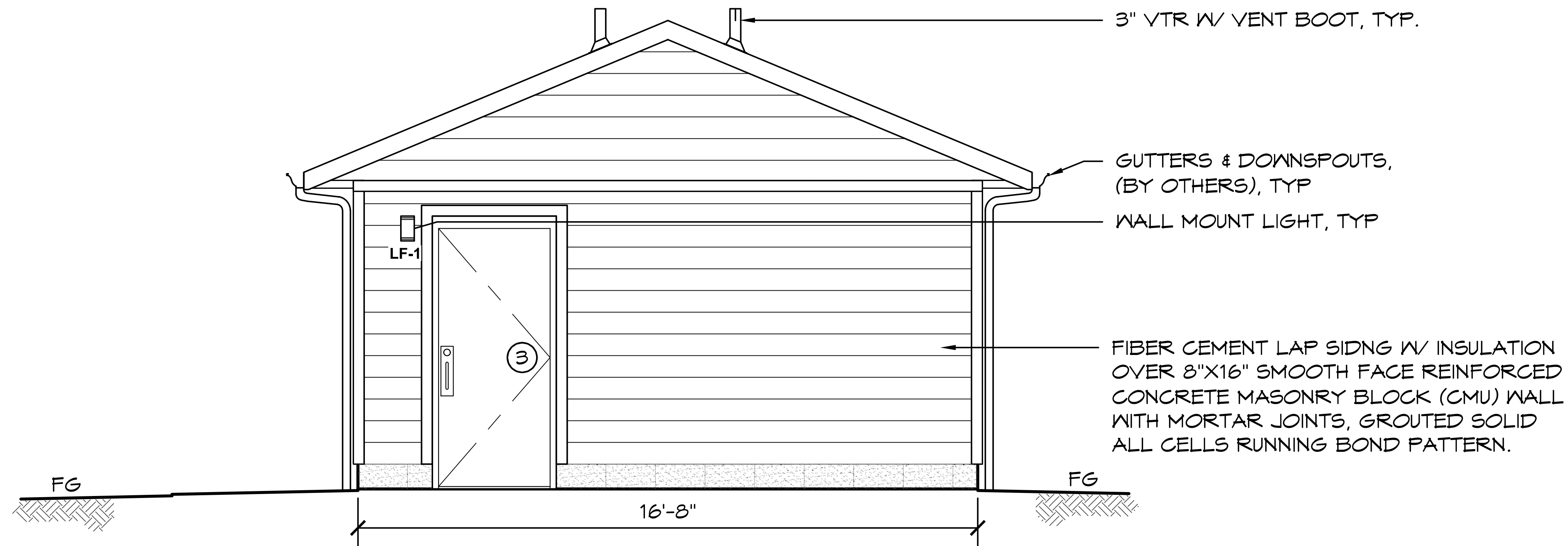
03/12/2025



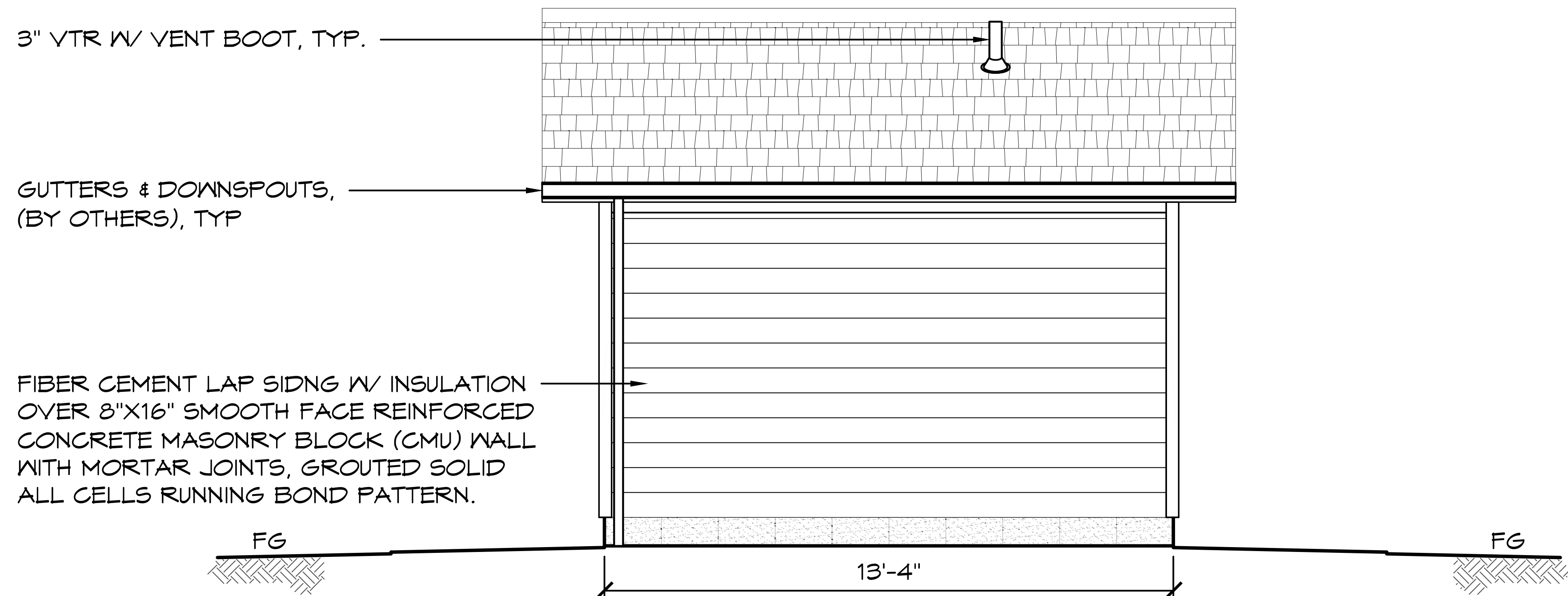
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A ELEVATION VIEW
SCALE: 1/4" = 1'-0"



B ELEVATION VIEW
SCALE: 1/4" = 1'-0"

PROJECT: ARCOLA CREEK PARK RESTROOM
MADISON TWP, OHIO
SHEET TITLE: EXTERIOR ELEVATION VIEWS

PROJECT #: ACP01
DATE: 3/4/2025
DRAWN BY: ZW
REV. DATE: BY:
REVISIONS:

SHEET NO. A2.1

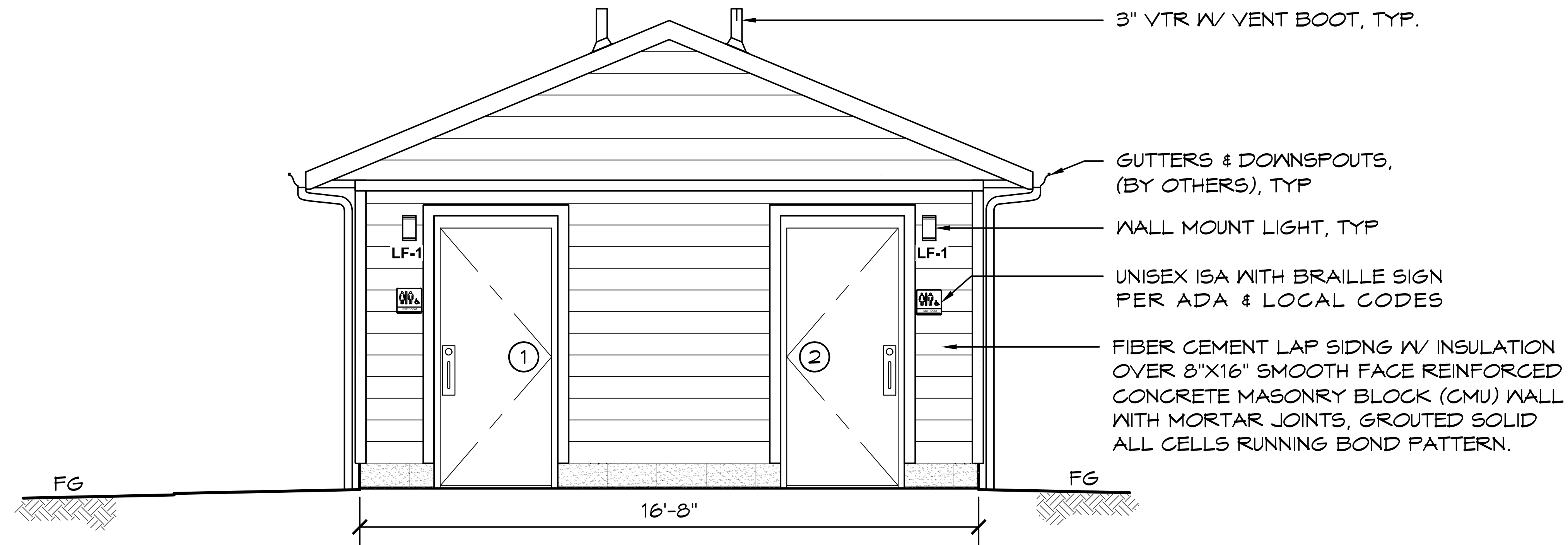
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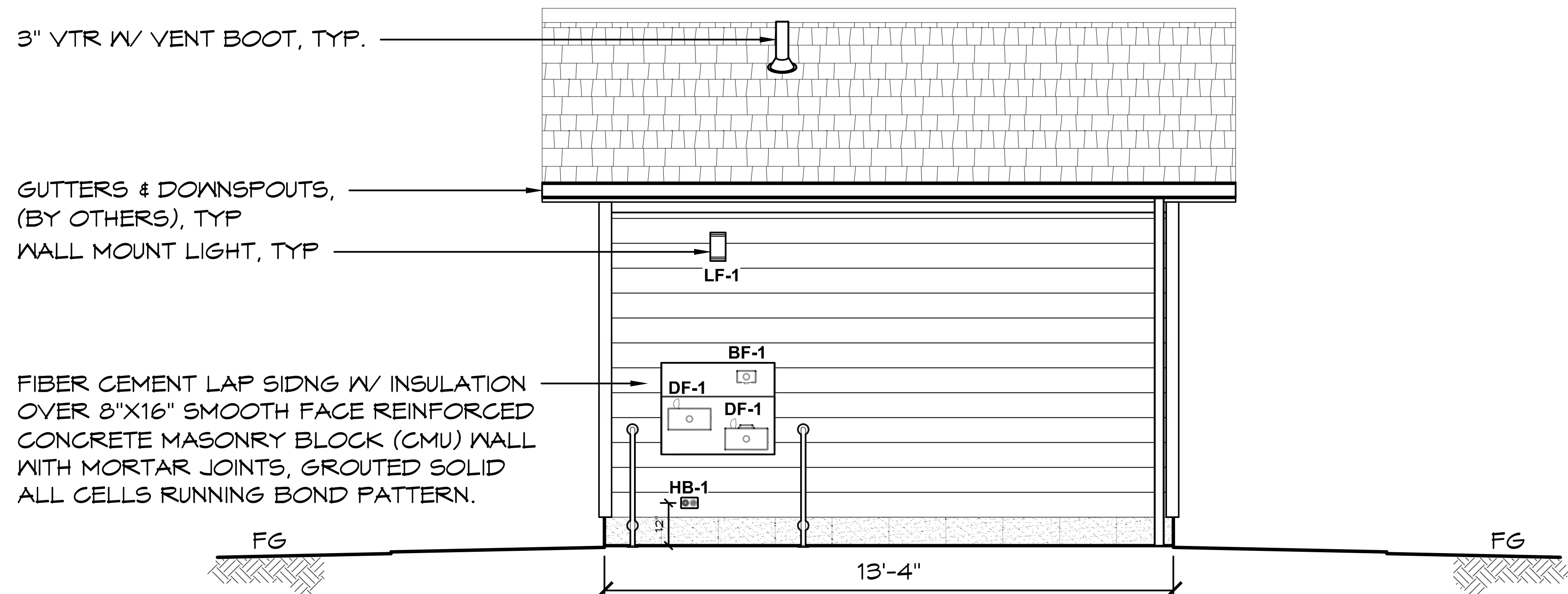
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C ELEVATION VIEW
SCALE: 1/4" = 1'-0"



D ELEVATION VIEW
SCALE: 1/4" = 1'-0"

PROJECT: **ARCOLA CREEK PARK RESTROOM**
SHEET TITLE: **MADISON TWP, OHIO**
EXTERIOR ELEVATION VIEWS

PROJECT #: **ACPO1**
DATE: **3/4/2025**
DRAWN BY: **ZW**
REVISIONS:

SHEET NO. **A2.2**

03/12/2025

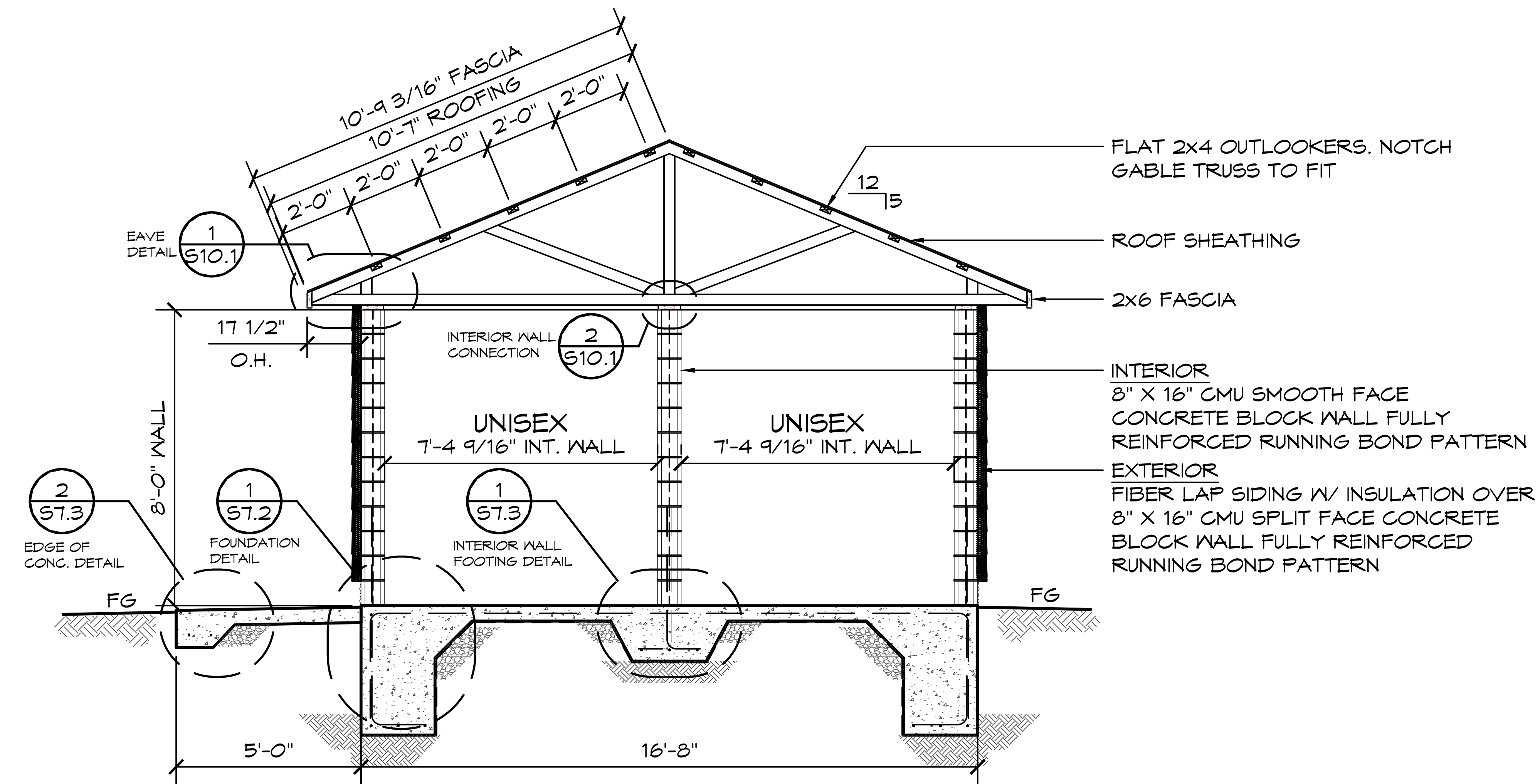


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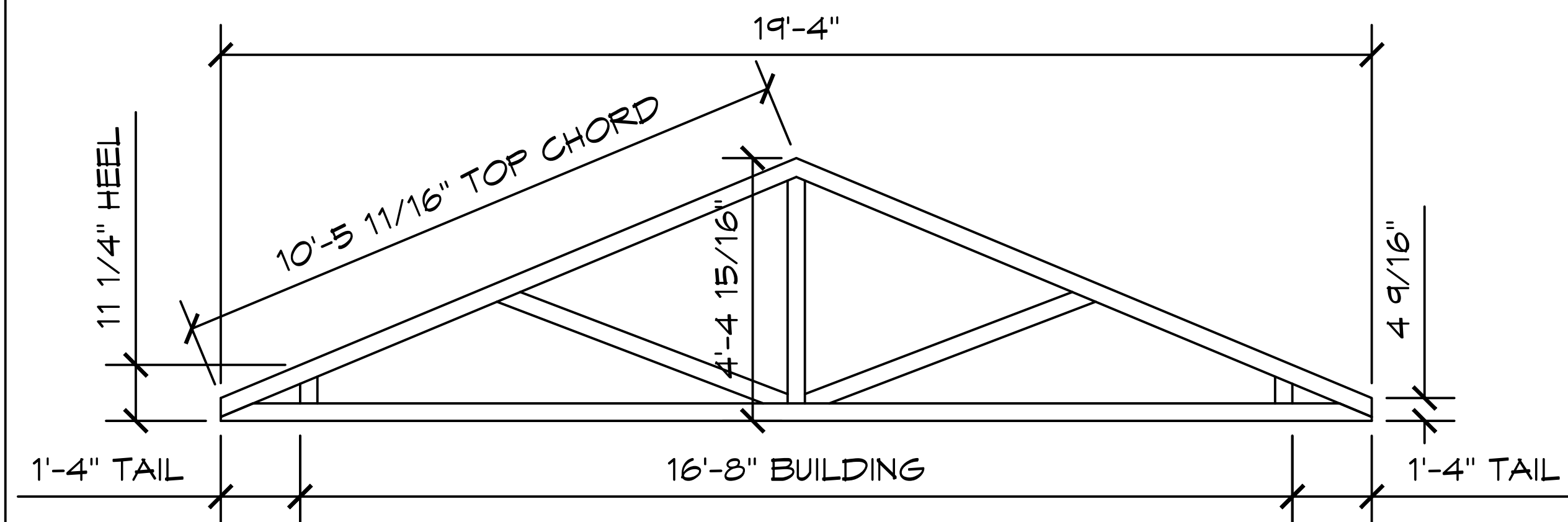
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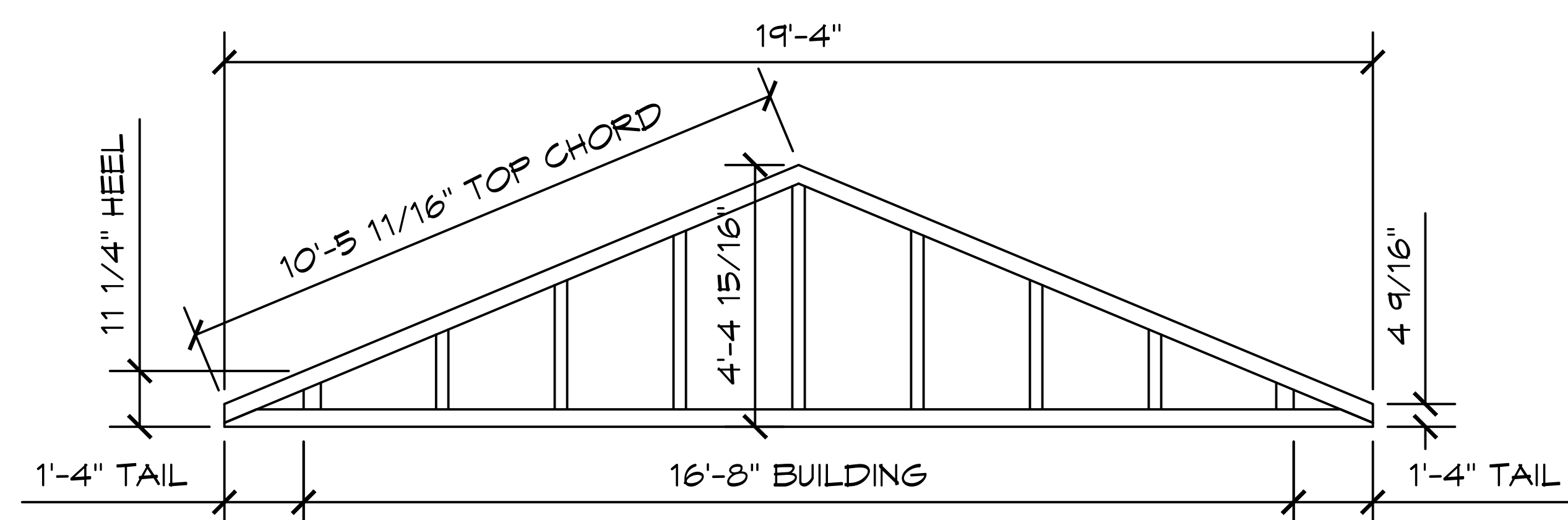
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1 SECTION VIEW
SCALE: 1/4" = 1'-0"



T1 STANDARD TRUSS
SCALE: 1/4" = 1'-0"



T2 GABLE END TRUSS
SCALE: 1/4" = 1'-0"

PROJECT: **ARCOLA CREEK PARK RESTROOM**
MADISON TWP, OHIO
SHEET TITLE: **SECTION VIEWS**

PROJECT #: **ACPO1**

DATE: **3/4/2025**

DRAWN BY: **ZW**

REV.	DATE:	BY:

REVISIONS:

SHEET NO. **A3.1**

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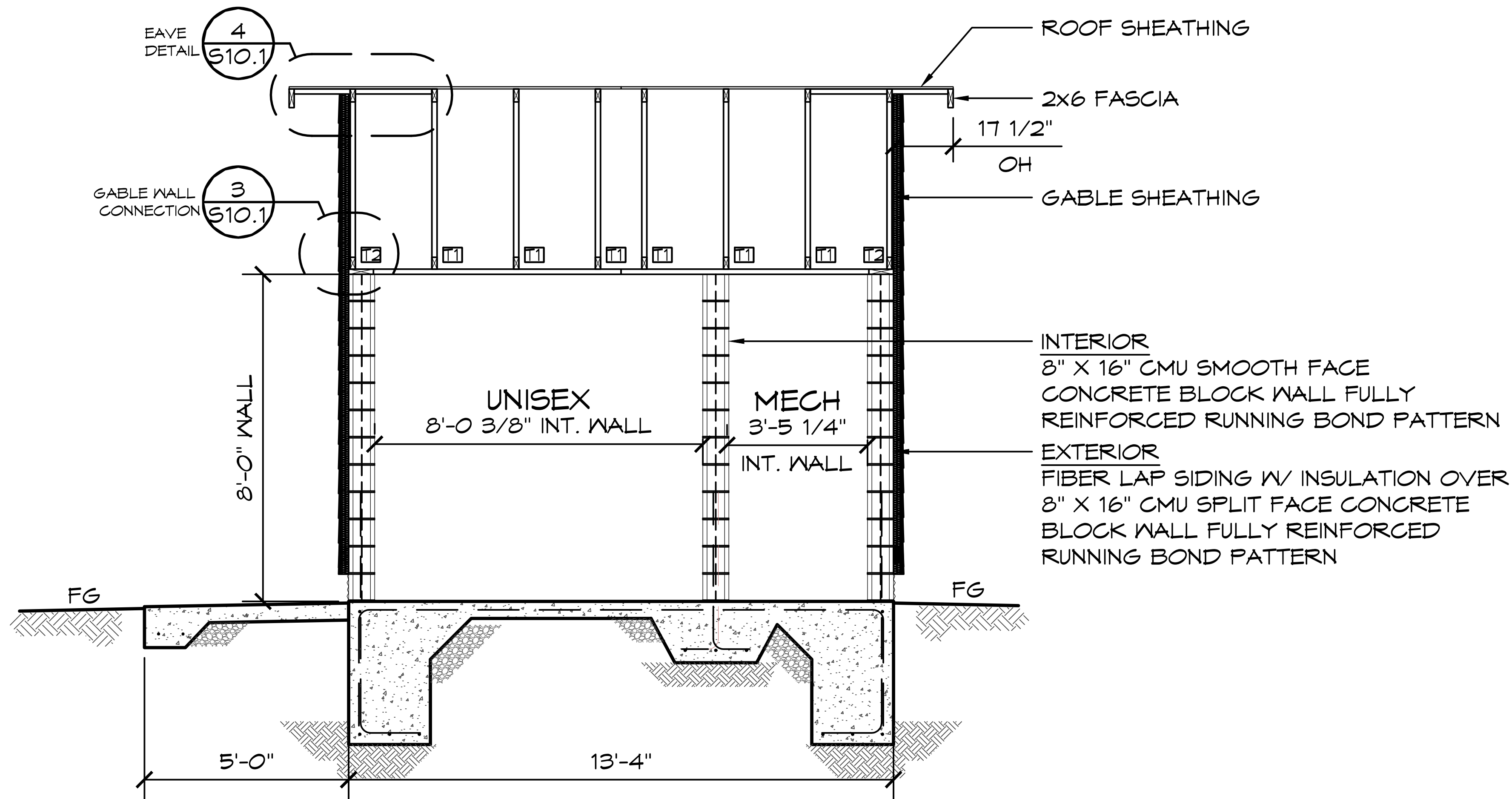


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1 SECTION VIEW
SCALE: 1/4" = 1'-0"

PROJECT: **ARCOLA CREEK PARK RESTROOM**
MADISON TWP, OHIO
SHEET TITLE: **SECTION VIEWS**

PROJECT #: **ACPO1**

DATE: **3/4/2025**

DRAWN BY: **ZW**

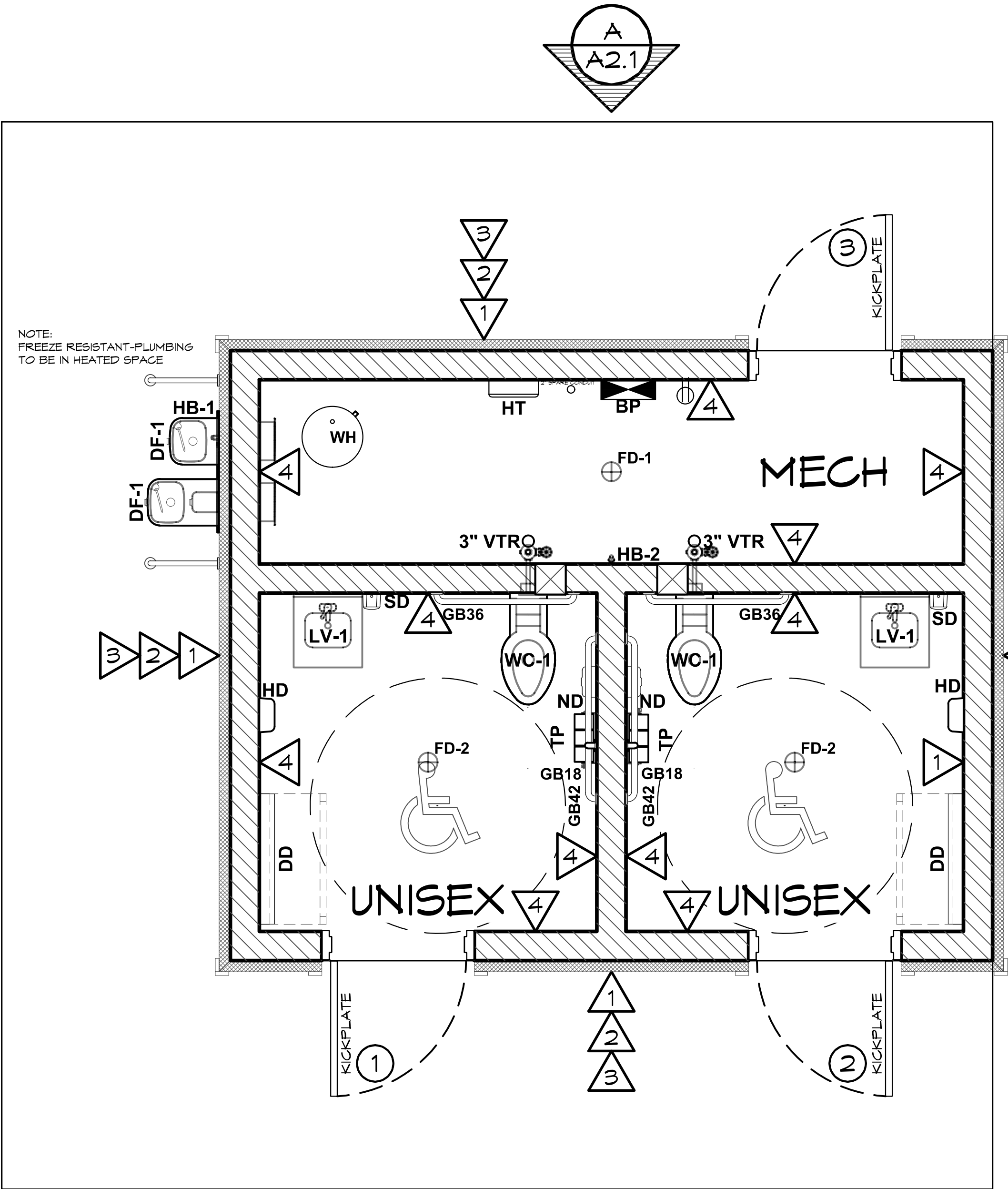
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SHEET NO.

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FINISH SCHEDULE			
NO.	LOCATION	FINISH	DETAIL
1	EXTERIOR WALL	8" SPLIT FACE FIRST COURSE, ALL OTHER COURSES SMOOTH FACE REINFORCED CONCRETE MASONRY BLOCK WALL W/ MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.	
2	EXTERIOR SIDE OF CMU	APPLY BLOCK SEALER TO CMU SURFACES. INSTALLER TO APPLY 2 COATS OF RAIN GUARD BLOK LOK OR EQUAL PER MANUFACTURE'S INSTALL INSTRUCTIONS (INSTALLER SUPPLIED)	
3	EXTERIOR SIDING	FIBER CEMENT LAP SIDING OVER 2" RIGID INSULATION	SEE PAGE A4.2
4	INTERIOR WALL	PRIMED & (2) COATS OF EPOXY PAINT CMU WALLS FLOOR TO CEILING (INSTALLER SUPPLIED)	
	CEILING	5/8" MOISTURE RESISTANT DRYWALL TO BE TEXTURED, PRIMED & PAINTED (INSTALLER SUPPLIED)	
	EXPOSED WOOD	ALL T&G, FASCIA, SUB FASCIA, AND GLULAM BEAMS AND COLUMNS TO BE SEALED WITH INSTALLER SUPPLIED CLEAR COAT FINISH APPLIED ONSITE BY INSTALLER	
	FLOOR	APPLY VAPOR CONTROL 1P PRIMER THEN EPOXY FLOOR WITH COROTECH SOLID V440, COROTECH V155 AND AGGREGATE V630 OR EQUAL.	
	COVE BASE IN RESTROOMS ONLY	COVE BASE INTEGRAL WITH FLOORING	

03/12/2025

STATE OF OHIO

NABIL TAHA

PE78263

REGISTERED PROFESSIONAL ENGINEER

Exp. 12/31/2025

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PROJECT: ARCOLA CREEK PARK RESTROOM

MADISON TWP, OHIO

SHEET TITLE: WALL FINISH SCHEDULE (INTERIOR/EXTERIOR)

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV. DATE: BY:

REVISIONS:

SHEET NO. A4.1

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2
A4.3

1
A4.3

 $\bar{2}$

1

EXTERIOR FINISH FIBER CEMENT LAP SIDING W/ 2" INSULATION	
SIDING NOTES (SEE A4.3)	
1	J-CHANNEL-26GA ROMTEC FT-000-5145 - AT CORNERS, J-CHANNEL-26GA ROMTEC FT-000-5145 - TOP & BOTTOM OF SMOOTH FACE CMU WALL AND AROUND OPENINGS. FASTEN W/ 3/16" X 1 1/4" FLAT HEAD CONCRETE ANCHORS @ 16" O.C. MAX.
2	2" RIGID INSULATION (R-13.1), SHALL BE FASTENED TO CMU W/ 3/16" X 4" FLAT HEAD CONCRETE ANCHORS & PLASTI-GRIP WASHERS IN THE PATTERN OF TWO ROWS OF FOUR EVENLY SPACED, USE VENTURE TAPE & SCREWS W/ WASHERS TO FASTEN (2 SHEETS TOGETHER @ SEAMS).
3	1/2" P.T. PLYWOOD 1'-0" FROM F.F -1/2" PLYWOOD ABOVE - SHALL BE FASTENED THRU INSULATION TO CMU W/ 3/16" X 4" FLAT HEAD CONCRETE ANCHORS, 12" O.C. PERIMETER & 16" O.C. IN FIELD
4	#15 BUILDING PAPER - SECURED TO 7/16" OSB SHEATHING PER MANUFACTURE'S INSTALL INSTRUCTIONS.
5	8 1/4" FIBER CEMENT LAP PLANKS (7" REVEAL) ATTACH WITH 1 3/4" ROOFING NAILS @ 16" O.C. INTO FURRING
6	5/4x4 FIBER CEMENT TRIM - ATTACH WITH 2" GALV. FINISH NAILS @ 12" O.C., COUNTERSINK & FINISH

PROJECT #:	ACPO1	
DATE:	3/4/2025	
DRAWN BY:	ZW	

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SHEET NO. **A4.2**

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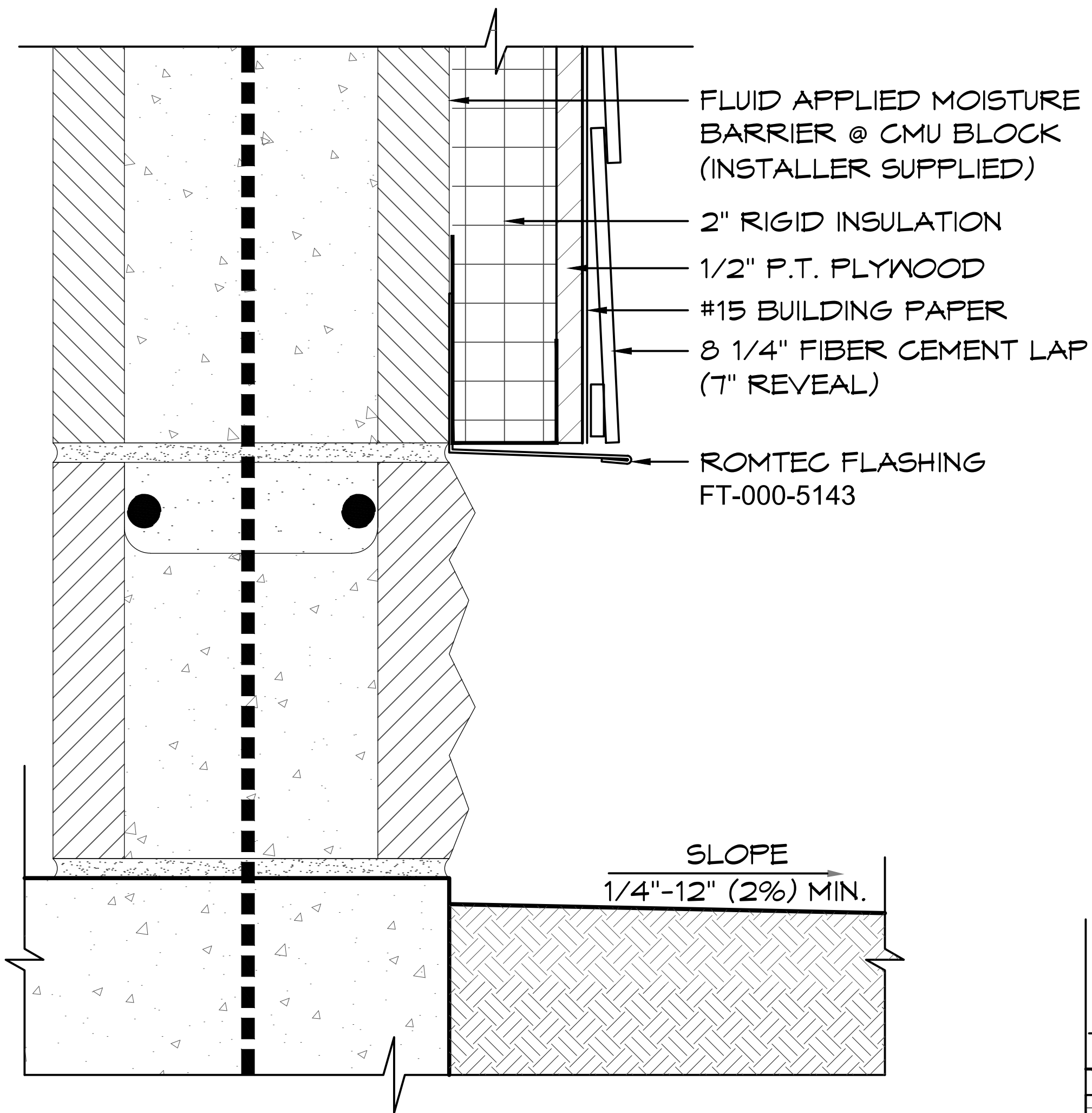
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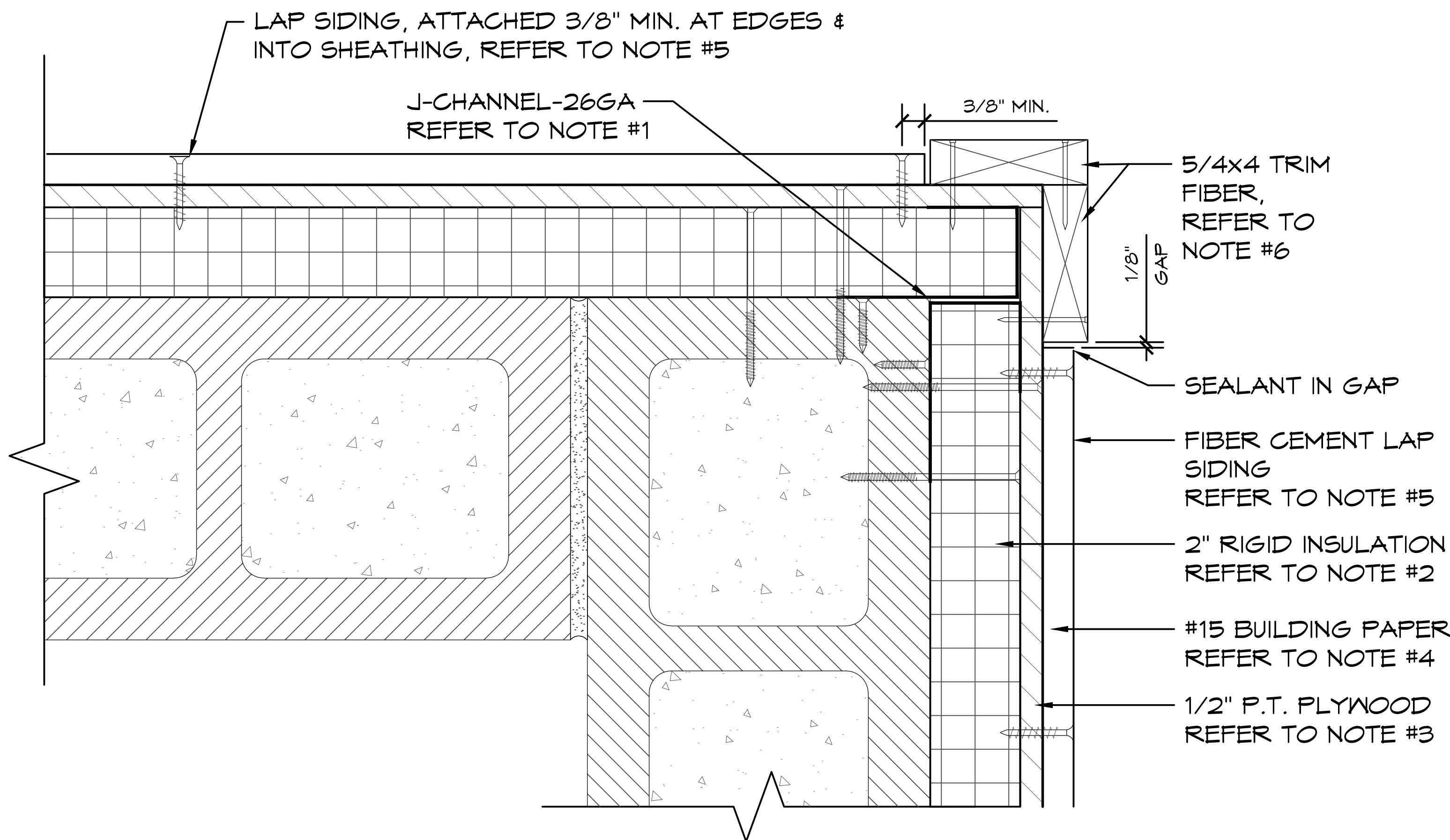
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1 BOTTOM OF WALL DETAIL
SCALE: 3" = 1'-0"



2 CMU CORNER FINISH DETAIL
SCALE: 3" = 1'-0"

PROJECT: **ARCOLA CREEK PARK RESTROOM**
MADISON TWP, OHIO
SHEET TITLE: **WALL FINISH DETAILS**

PROJECT #: **ACPO1**
DATE: **3/4/2025**

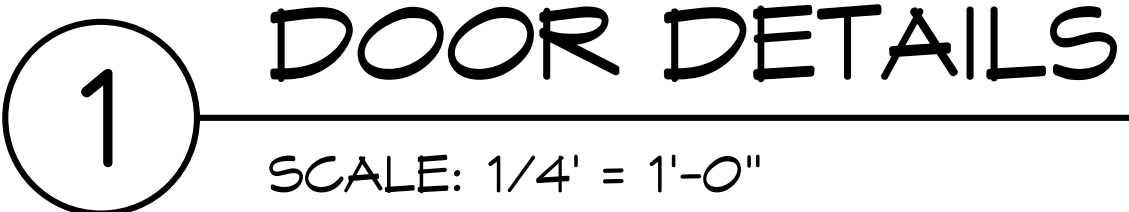
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REV.	DATE:	BY:

REVISIONS:

SHEET NO. **A4.3**

DOOR SCHEDULE						
NO	SIZE (WxHxT)	DOOR	FRAME	SWING - DOOR / FRAME	HARDWARE GROUP	REMARKS
1	36"x84"x1 3/4"	SL14	F14	INTERIOR LEFT HAND (REVERSE) SWING OUT / RIGHT HAND	DO~ 1	SEE THRESHOLD DETAIL 3/A5.2
2	36"x84"x1 3/4"	SL14	F14	INTERIOR RIGHT HAND (REVERSE) SWING OUT / LEFT HAND	DO~ 1	SEE THRESHOLD DETAIL 3/A5.2
3	36"x84"x1 3/4"	SL14	F14	INTERIOR LEFT HAND (REVERSE) SWING OUT / RIGHT HAND	DO~ 2	SEE THRESHOLD DETAIL 3/A5.2
DOOR HARDWARE SCHEDULE (QTYS PER DOOR)						
GROUP DO-1	GROUP DO-2					
3	3	EACH HINGE 4.5" x 4.5" S.S. (NRP)				
1	1	DOOR CLOSER, (USE THRU BOLT ANCHORING OPTION)				
1	-	DEADBOLT LOCKSET, SCHLAGE C KEYWAY - <u>SINGLE CYLINDER DEADBOLT LOCK</u> , SATIN FINISH - (KEY - OUTSIDE / THUMB-TURN - INSIDE)				
-	1	DEADBOLT LOCKSET, SCHLAGE C KEYWAY - <u>CLASSROOM LOCK</u> , SATIN FINISH - (KEY - OUTSIDE / THUMB-TURN - INSIDE RETRACTS ONLY)				
2	2	PULL PLATE, 4" X 16"				
2	2	PULL HANDLE, 8" CENTER				
1	1	KICK PLATE, 10" X 34"				
1	1	SWEEP				
6	6	WIRE DOOR CLIPS				
NOTE: ALL DOORS MAY BE OPENED FROM THE INSIDE W/O KEY, SPECIAL KNOWLEDGE, OR EFFORT. 5# MAX OPENING EFFORT DOOR IS EQUIPPED W/ SINGLE-EFFORT, NON-GRASP HARDWARE. DOOR COMPLIES WITH ADA REQUIREMENT FOR AN INSIDE LOCK.						



SHEET NO. 75.1

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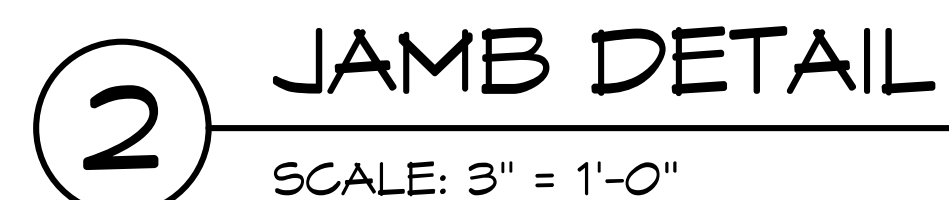
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SHEET TITLE: **DOOR DETAILS**

SHEET NO.

A5.2

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3 THRESHOLD DETAIL

SCALE: 3" = 1'-0"

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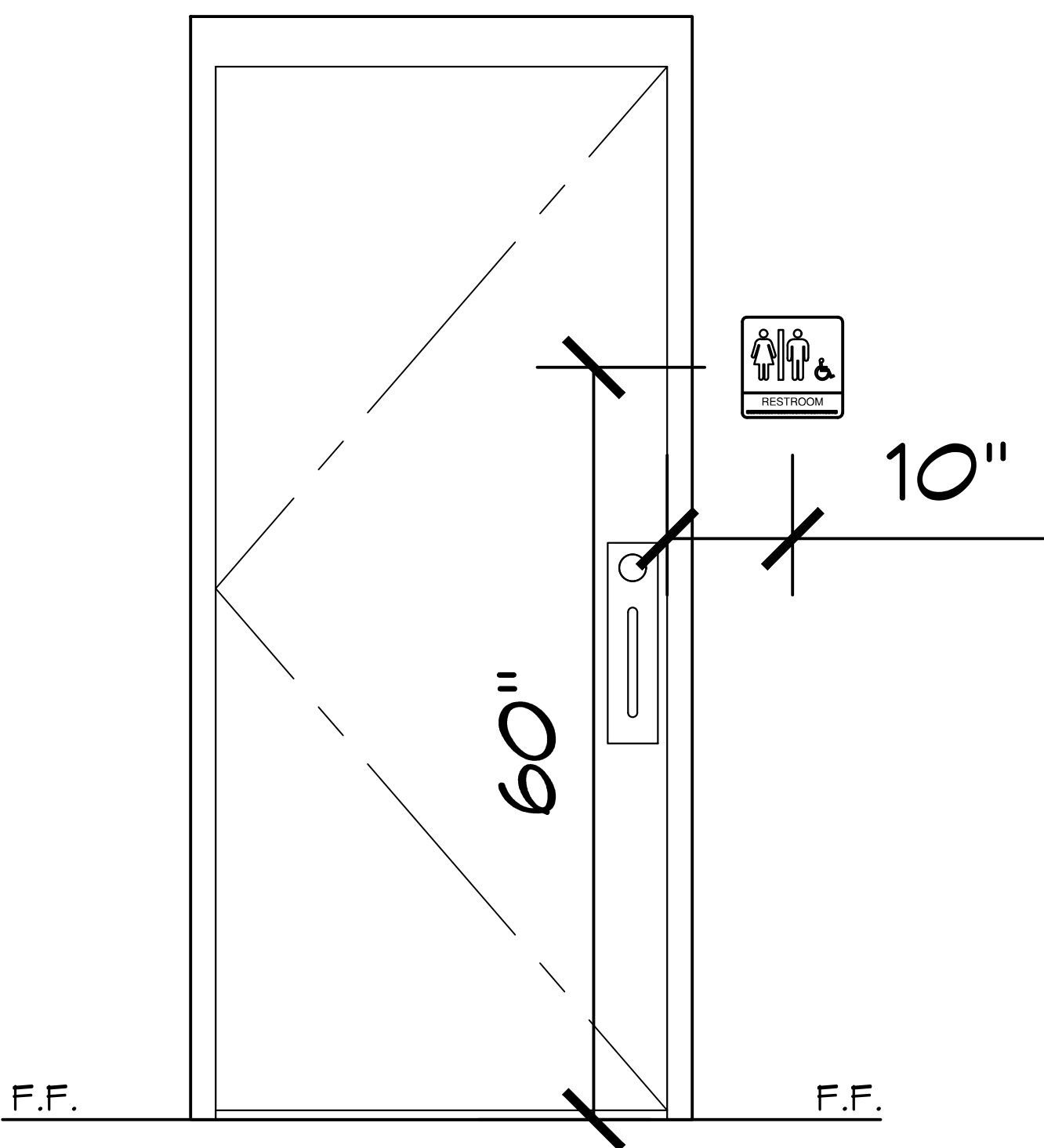


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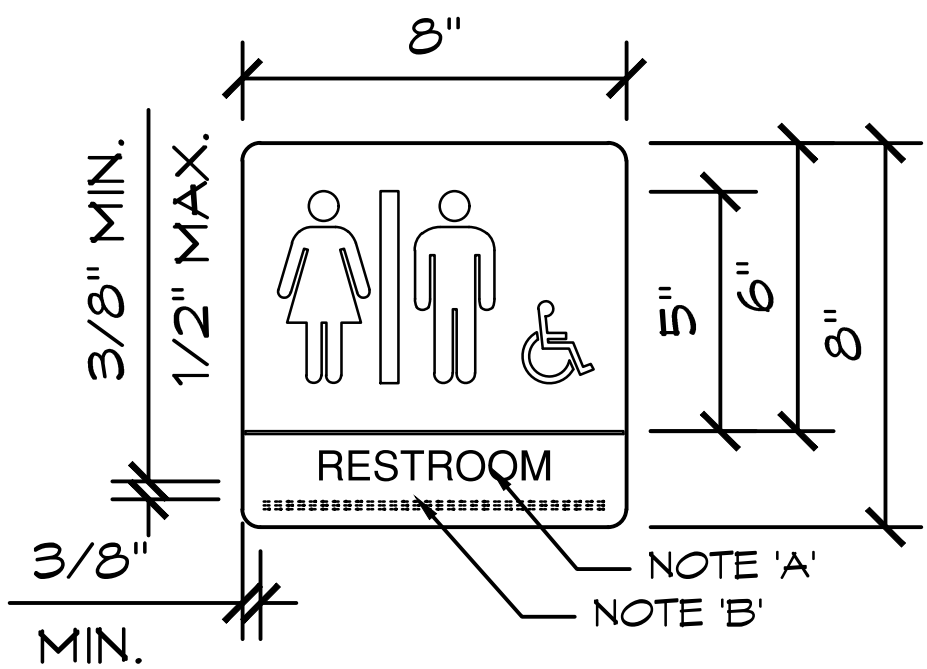
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1

ADA SIGN ELEVATIONS

SCALE: 1/2" = 1'-0"



2

ADA SIGNS DETAIL

SCALE: 1 1/2" = 1'-0"

NOTES:

- A) CHARACTERS ON SIGNS SHALL BE RAISED 1/32" INCH MINIMUM AND SHALL BE 'SANS SERIF' UPPERCASE CHARACTERS ACCOMPANIED BY GRADE II BRAILLE (WHERE REQUIRED). RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" INCH AND A MAXIMUM OF 2" INCHES HEIGHT.
- B) CONTRACTED GRADE II BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED. DOTS SHALL BE 1/10"TH INCH ON CENTERS IN EACH CELL WITH A 2/10TH INCH SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE A RAISED A MINIMUM OF 1/40TH (0.025) INCH ABOVE THE BACKGROUND.

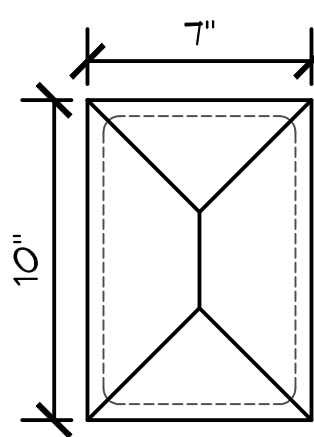
3

WHEN A SIGN IS REQUIRED BACKING BOARD - FIELD CUT (5/4" X 4" FIBER CEMENT)

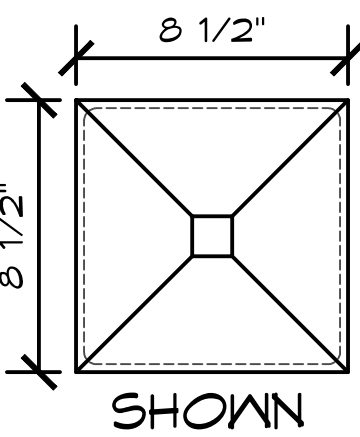
- FOR LAP OR SHAKE SIDING ONLY!
FOR OTHER FINISHES SEE 2/A5.2
- ATTACH BACKING BOARD 10" o.c.,
FROM DOOR OPENING (LATCH
SIDE)
- LOCATIONS & HEIGHT OF SIGN
REQUIREMENTS PER PLANS

SCALE: 1" = 1'-0"

FOR 6"x9" SIGN



FOR 8"x8" SIGN



SHOWN

SIGN FASTENERS: WOOD/FIBER CEMENT/STEEL
(4) #10 3/4" PHILLIPS ROUND HEAD SCREW.

PROJECT:

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV.	DATE:	BY:

REVISIONS:

SHEET NO.

A5.3

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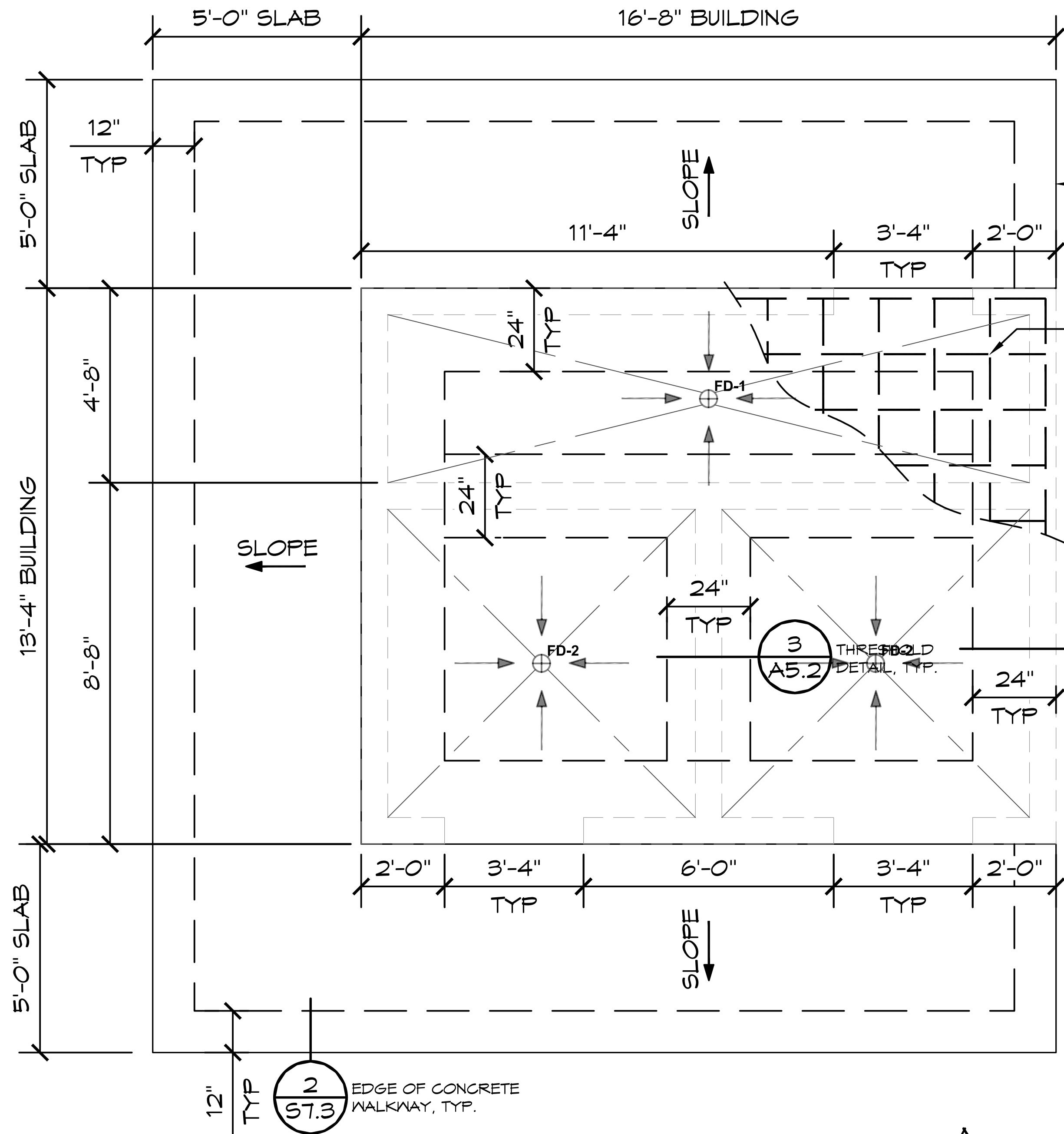


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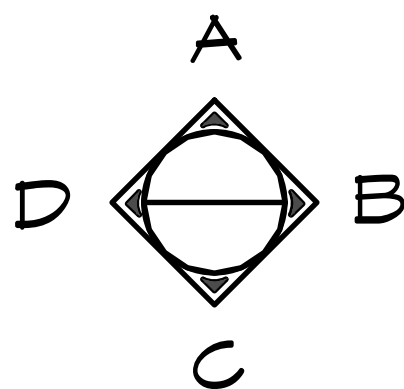
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1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



RECYCLE

RECYCLE ALL USED SHIPPING
MATERIALS AND LEFT OVER
BUILDING MATERIALS

FOUNDATION NOTES:

1. FINISH FLOOR SLOPE IS 2% (1/4" PER FT) MAX & 1% (1/8" PER FT) MIN
2. VERIFY SIDEWALKS W/ OWNER
3. PROVIDE BLOCK-OUTS FOR PLUMBING, MECHANICAL, & ELECTRICAL AS REQD. CO-ORDINATE W/ SUBS.
4. REBAR MIN. BEND SHALL BE NOT LESS THAN 6db INSIDE DIA. AS PER TMS TMS 402-16 SECTION 6.1.8.2.
5. SAW JOINTS BY CONTRACTOR. SLAB APPEARANCE IS A PRIORITY. LOCATE JOINTS AT 10' O.C. MAX. SEE 3/S7.3.
6. MAXIMUM SLOPE OF EXCAVATION MAY BE LIMITED BY LOCAL SOIL CONDITIONS. INCREASE DEPTH OF FORMED CONCRETE AS REQD.
7. CONCRETE SLAB BENEATH FLOOR MOUNTED FIXTURES ARE TO BE GROUTED LEVEL AND SMOOTH.
8. UNDER FOOTINGS: UNDISTURBED NATIVE SOIL OR 12" FILL COMPACTED TO 90% ASTM D 1557 TO MEET OR EXCEED ALLOWABLE BEAR PRESSURE ON SHEET G2.
UNDER SLAB: 6" FILL COMPACTED TO 90% ASTM D 1557 TO MEET OR EXCEED ALLOWABLE BEAR PRESSURE ON SHEET G2.

THE CONTRACTOR SHALL READ AND FOLLOW ALL RECOMMENDATIONS
IN THE GEOTECHNICAL REPORT PREPARED BY PROFESSIONAL SERVICES
INDUSTRIES, INC., REPORT # 0142-2901, DATED JANUARY 29, 2025

PROJECT: **ARCOLA CREEK PARK RESTROOM**
MADISON TWP, OHIO
SHEET TITLE: **FOUNDATION PLAN**

PROJECT #: **ACPO1**

DATE: **3/4/2025**

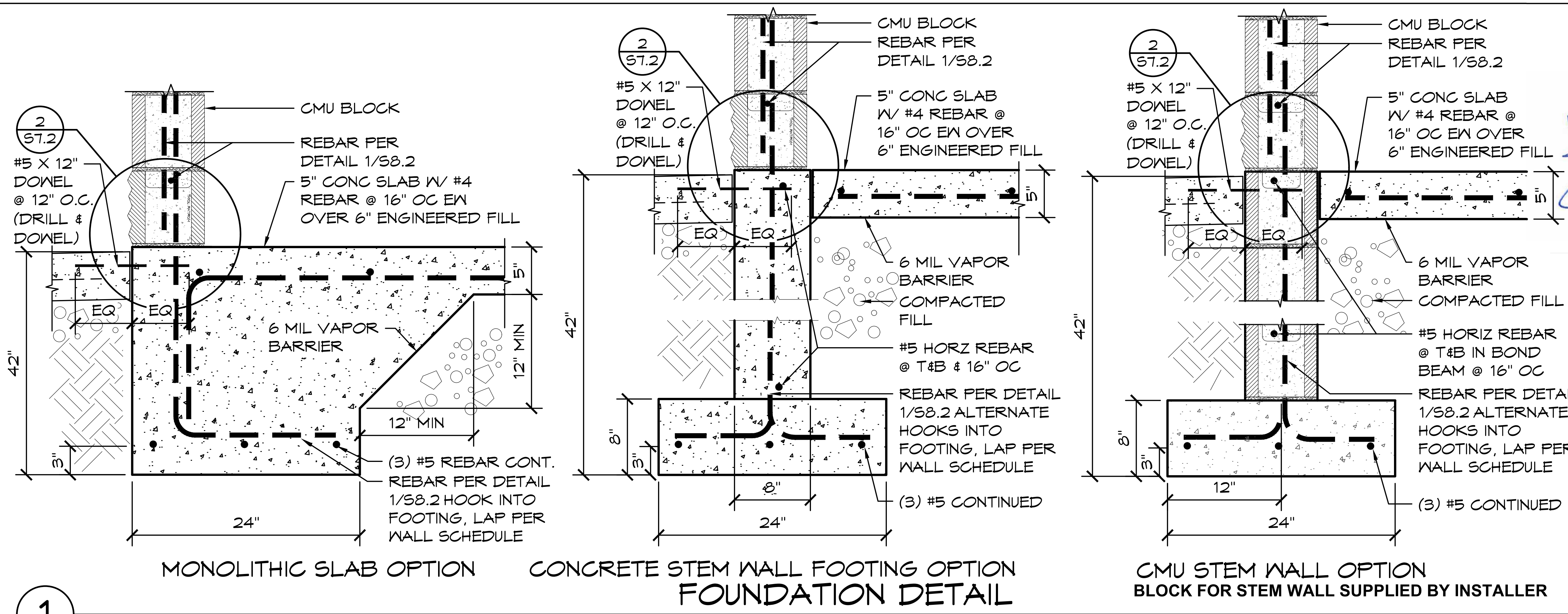
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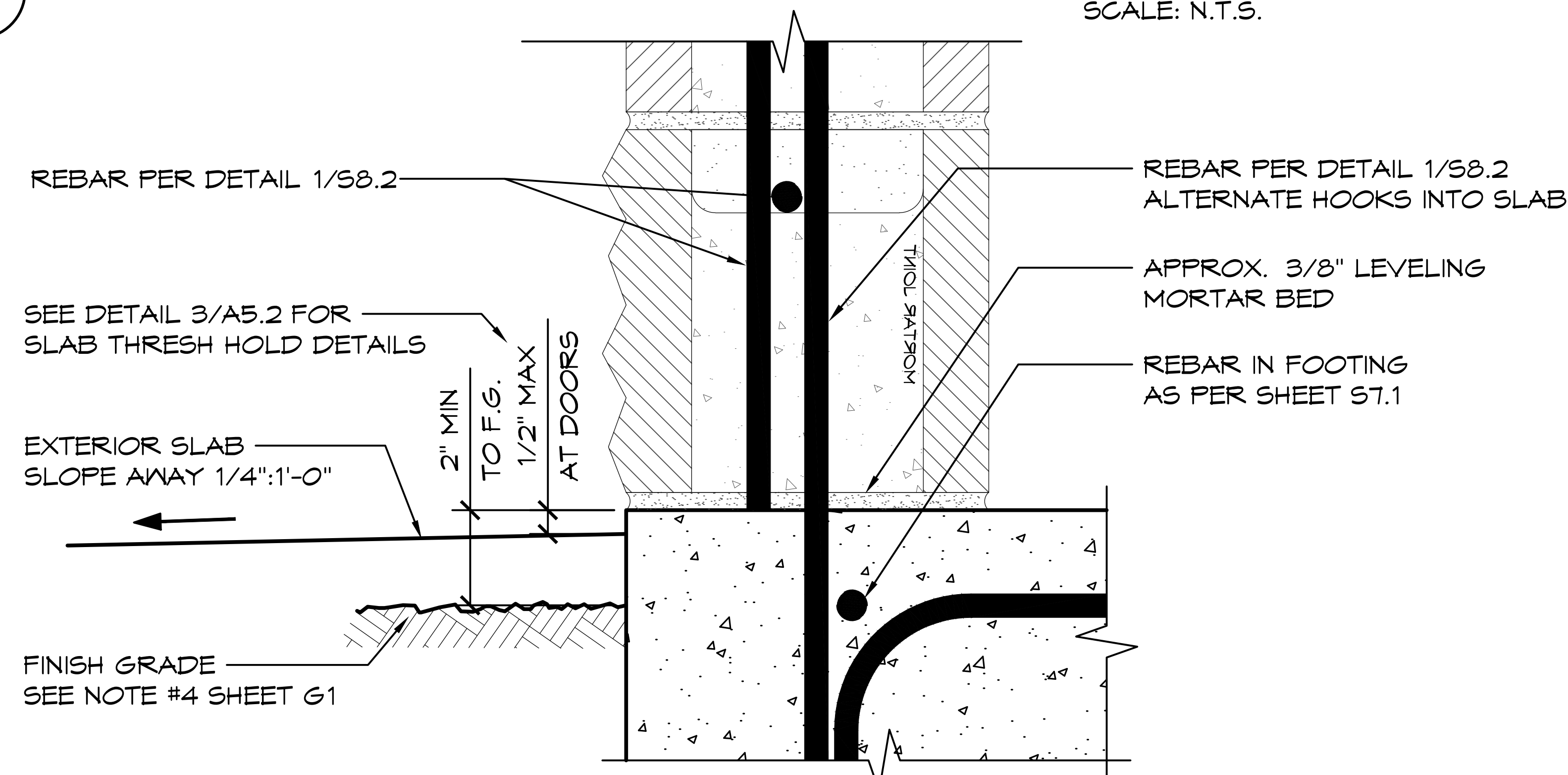
1 3-12-2025 ZW

REVISIONS:

SHEET NO. **S7.1**



1



2 WALL-SLAB CONNECTION - MONO

SCALE: 3" = 1'-0"

03/12/2025

STATE OF OHIO

NABIL TAHA

PE78263

REGISTERED PROFESSIONAL ENGINEER

Exp. 12/31/2025

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ROMTEC 225-041

PROJECT: ARCOLA CREEK PARK RESTROOM

SHEET TITLE: MADISON TWP, OHIO

FOUNDATION DETAILS

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV.	DATE:	BY:
1	3-12-2025	ZW

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SHEET NO. **57.2**

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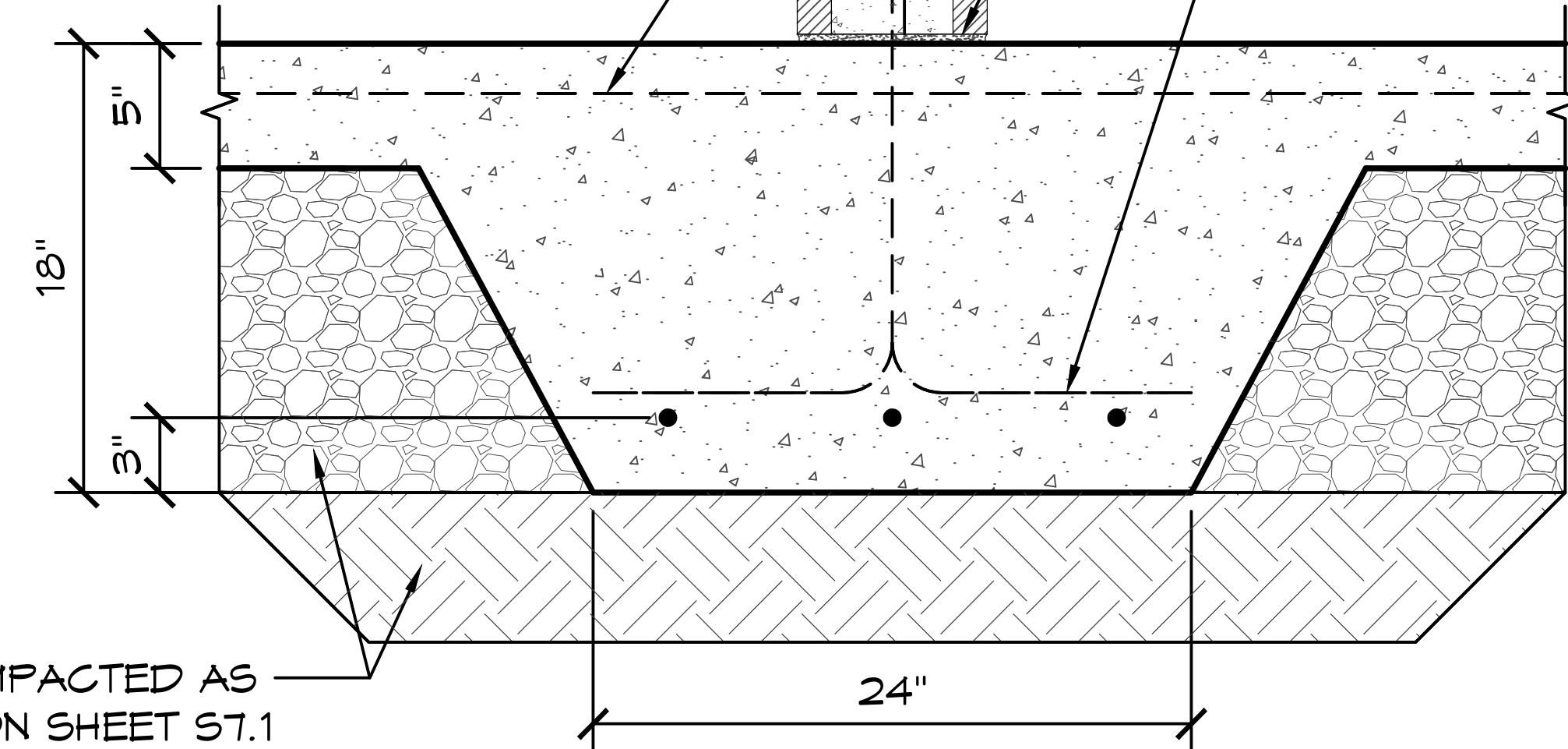
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REBAR PER DETAIL 1/S8.2
CENTERED IN WALL
REBAR PER DETAIL 1/S8.2
ALTERNATE HOOKS INTO SLAB
TO MATCH VERTICAL REBAR.
LAP PER WALL SCHEDULE
5" CONC SLAB W/ REBAR IN
SLAB AS PER SHEET S7.1
OVER 6" ENGINEERED FILL
CMU BLOCK WALL
APPROX. 3/8" LEVELING
MORTAR BED
(3)#5 OR (4)#4 REBAR
CONTINUOUS

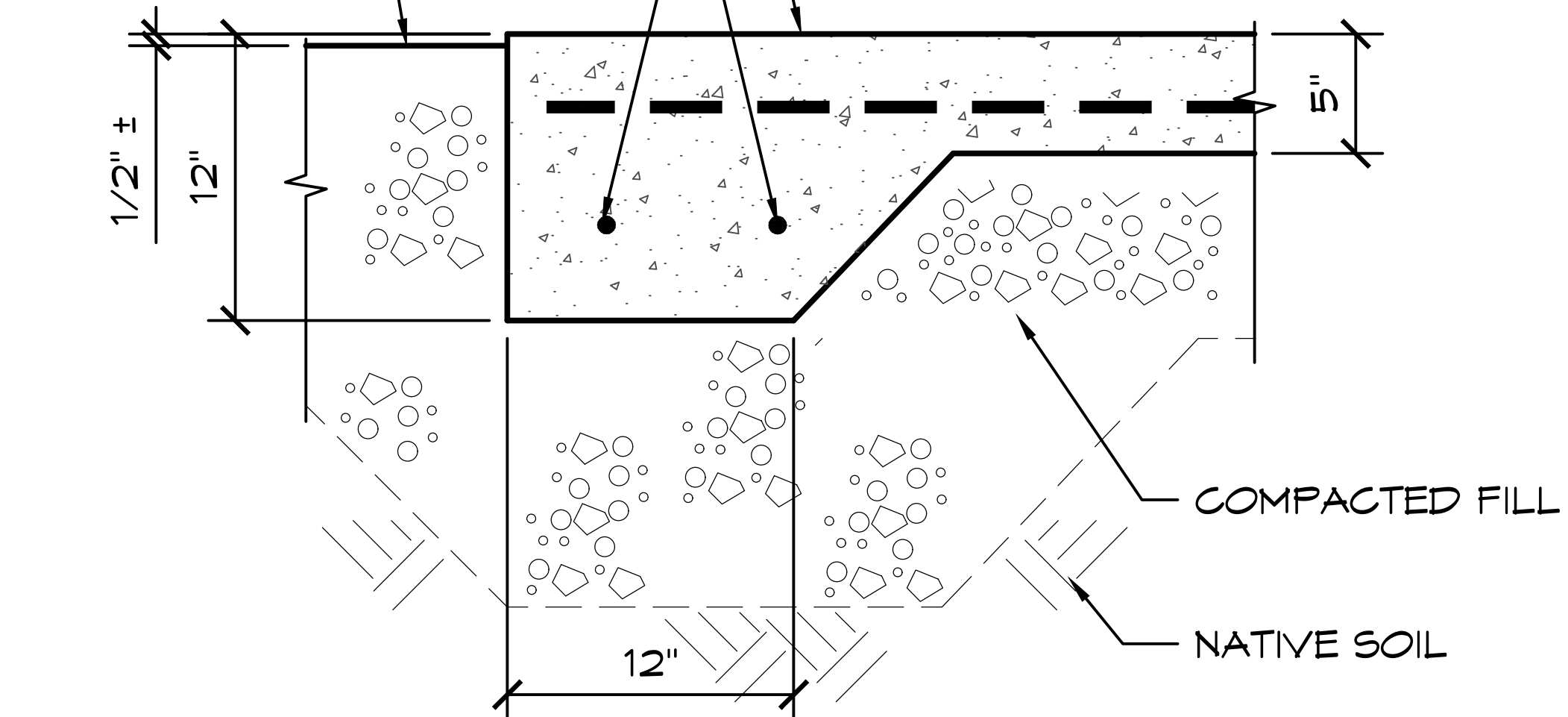


FILL COMPACTED AS
NOTED ON SHEET S7.1

1 THICKENED SLAB AT INTERIOR WALL

SCALE: 1" = 1'-0"

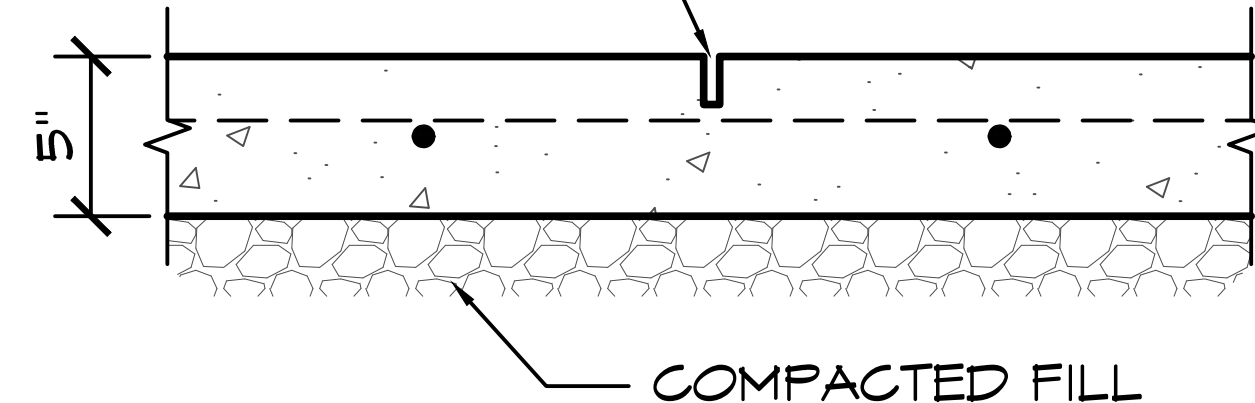
(2) #4 REBAR CONT
FINISH GRADE
5" CONC. SLAB W/ 6 X 6 -
W2.9 X W2.9 WWM OR #4 REBAR
@ 16" OC EN CONTRACTORS
OPTION, SLOPE AWAY
FROM BLDG. @ 1/4" : 12" UNO



2 EDGE OF CONC. WALKWAY

SCALE: 1" = 1'-0"

MAKE SAWCUT 1 1/2" DEEP WITHIN 24
HRS OF POUR "DO NOT CUT BARS".
FILL W/ EXPANDING JOINT COMPOUND.
MAXIMUM JOINT SPACING = 10'-0". AT
INSTALLER'S OPTION, CONTROL JOINT
MAY BE TOOLED DURING CONCRETE
FINISHING.



3 SAWCUT JOINT

SCALE: 1" = 1'-0"

PROJECT:

ARCOLA CREEK PARK RESTROOM

MADISON TWP, OHIO

SHEET TITLE:

FOUNDATION DETAILS

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV.	DATE:	BY:
1	3-12-2025	ZW

REVISIONS:

SHEET NO. **S7.3**

03/12/2025



Exp. 12/31/2025

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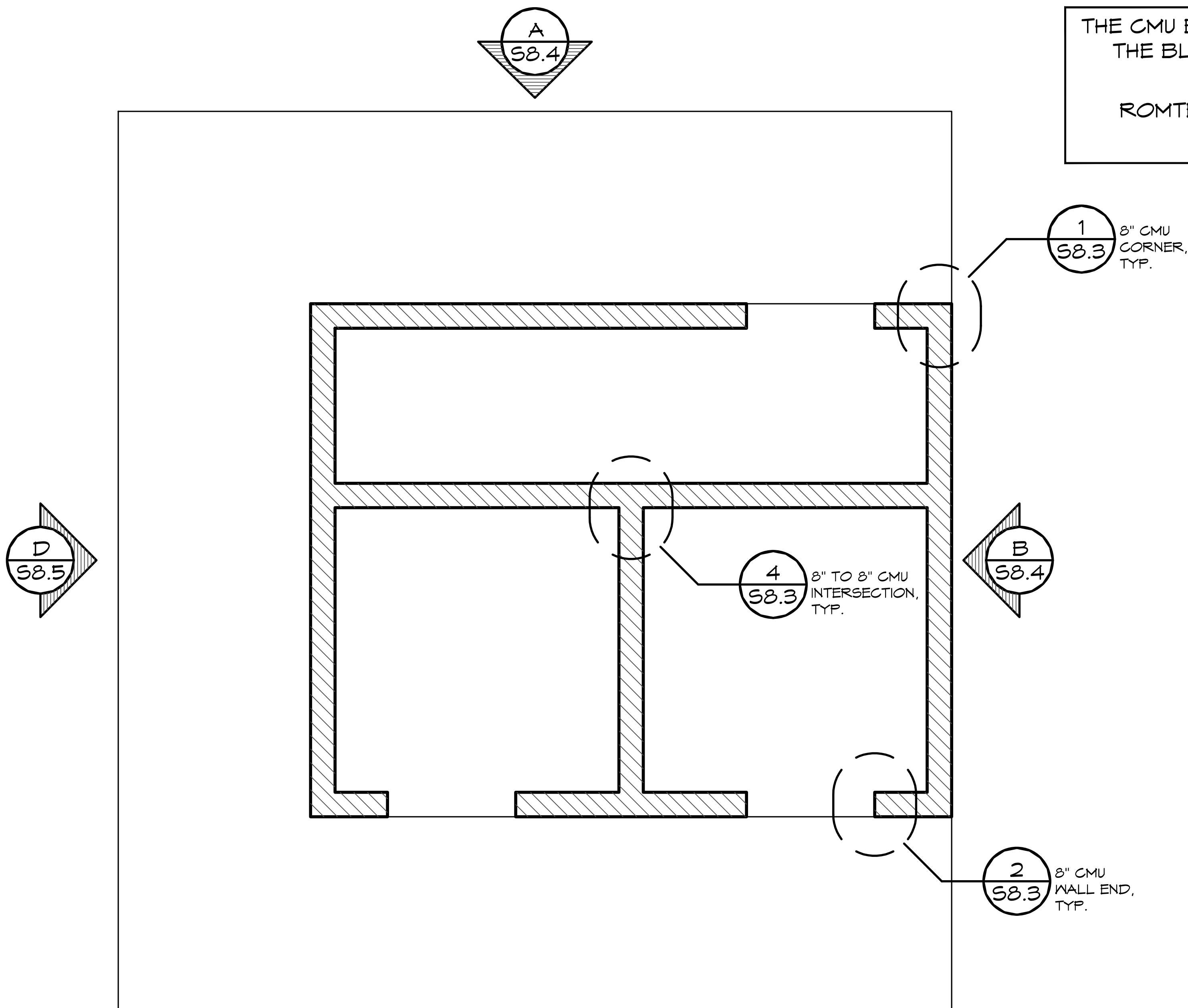
PROJECT:	ARCOLA CREEK PARK RESTROOM		
	MADISON TWP, OHIO		
SHEET TITLE:	STRUCTURAL CMU PLAN		
PROJECT #:	ACPO1		
DATE:	3/4/2025		
DRAWN BY:	ZW		
REV.	DATE:	BY:	
REVISIONS:			
S8.1			
SHEET NO.			

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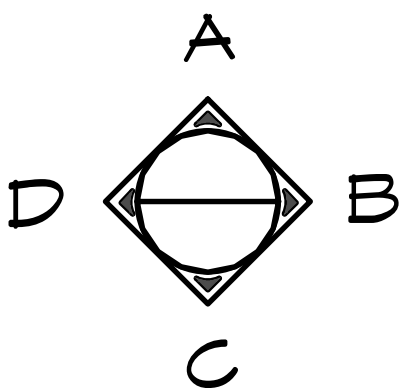
WALL TYPE SCHEDULE

8" REINFORCED CONCRETE
MASONRY BLOCK WALL WITH
MORTAR JOINTS, GROUTED SOLID
ALL CELLS RUNNING BOND PATTERN.

THE CMU BLOCK LAYOUT SHALL BE PER
THE BLOCK LAYOUT PLANS IN THE:
"FINAL"
ROMTEC SCOPE OF SUPPLY AND
DESIGN SUBMITTAL



1 STRUCTURAL CMU PLAN
SCALE: 1/4" = 1'-0"



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ROMTEC 225-041

CMU REBAR SCHEDULE		
REBAR	MIN. LAP	BEND DIAMETER
#4	24"	3" MIN.
#5	30"	3-3/4" MIN.

CMU REBAR NOTES:
- BENDS: MIN. INSIDE BEND DIAMETER SHALL BE NOT LESS THAN 6d AS PER TMS 402-16 SECTION 6.1.8.2
- SPLICES: LAP SPLICES ARE PERMITTED AS PER TMS 402-16 SECTION 6.1.6.1.1

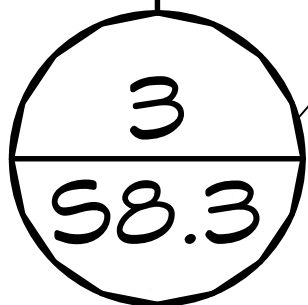
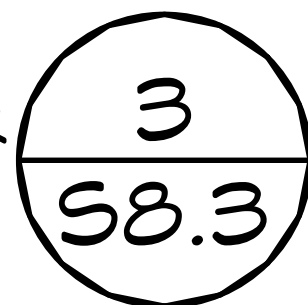
PIPES INSTALLED THROUGH CMU WALL NOTES:
- SUPPLY: THE FIXTURE SUPPLY LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE AND THE PORTION OF PIPE LOCATED IN CMU WALL SHALL BE WRAPPED WITH 10MIL BLACK TAPE
- WASTE PIPE: THE FIXTURE WASTE LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE.

(2) # 5 REBAR @ TOP COURSE

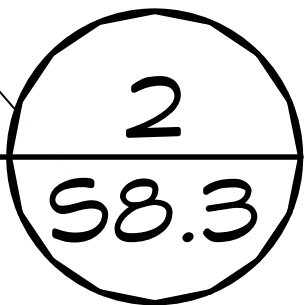
(1) ADDITIONAL 8'-0" # 5 REBAR EXTEND 24" BEYOND DOOR OPENINGS

VERTICAL # 4 REBAR @ 32 "OC
HORIZONTAL # 4 REBAR @ 32 "OC
4 REBAR EACH SIDE OF OPENINGS

CMU CORNER
DETAIL



TYP. REBAR
PLACEMENT DETAIL



CMU END
WALL DETAIL

1ST COURSE
HORIZONTAL
REBAR BEND UP

F.F.

NOT SHOWN: (2) # 4 REBAR ABOVE & BELOW MAJOR OPENINGS EXTEND 24" BEYOND OPENINGS (>2'-0" WIDE EXCEPT DOOR OPENINGS)
NOTE: HORIZONTAL REBAR TO GO AROUND VERTICAL REINFORCEMENT WITH STANDARD BEND AT ALL CORNERS, AND HORZ REBAR TO BEND UP OR DOWN AND LAP VERTICAL REBAR AT ALL OPENING LOCATIONS AS PER DETAILS ON S8.3

1

CMU REBAR LAYOUT DETAIL

SCALE: 1/2" = 1'-0"

PROJECT:

ARCOLA CREEK PARK RESTROOM

MADISON TWP, OHIO

SHEET TITLE:

STRUCTURAL CMU REBAR LAYOUT

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

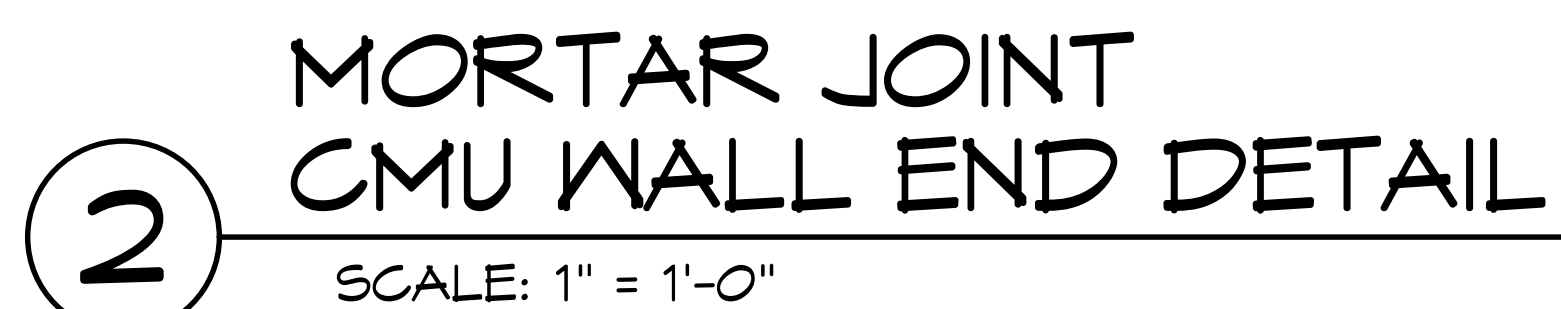
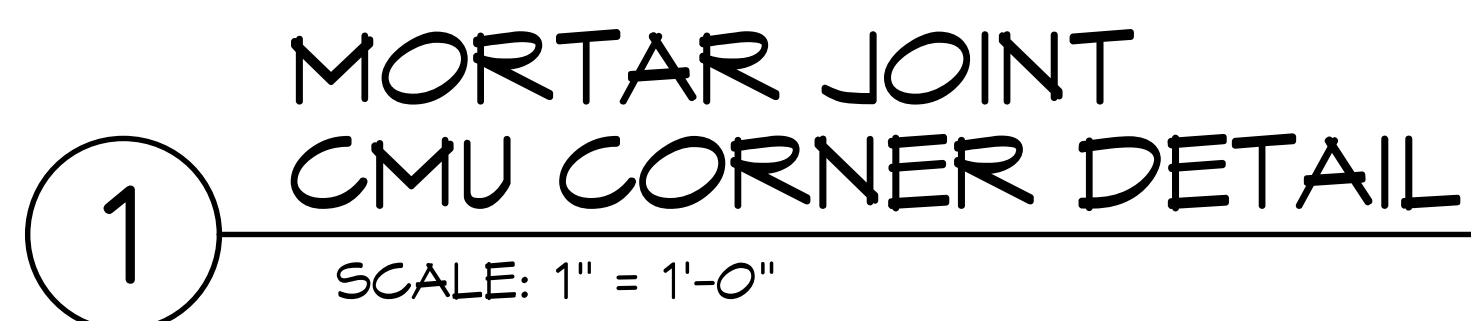
REV.	DATE:	BY:

REVISIONS:

SHEET NO.

S8.2

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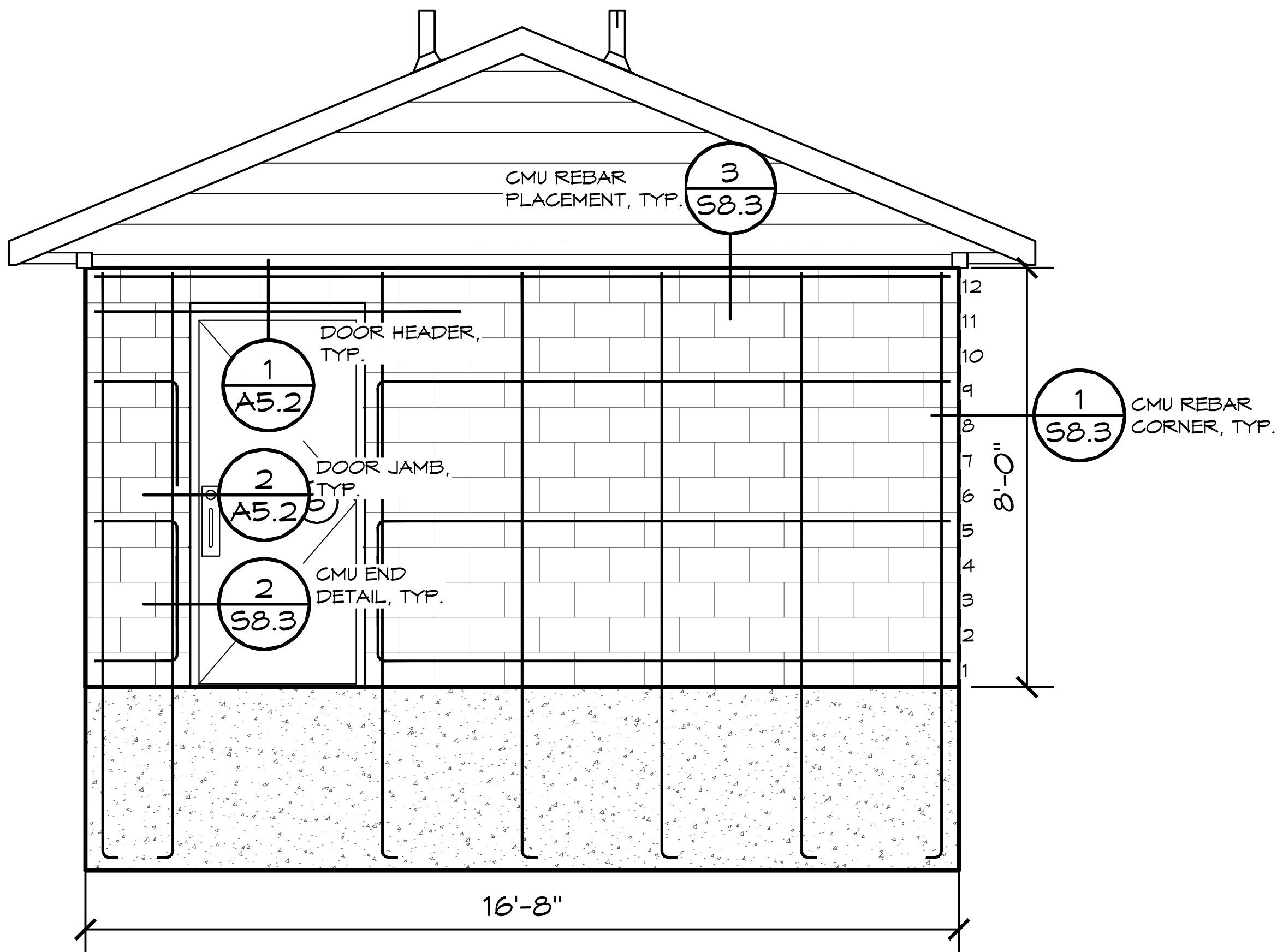
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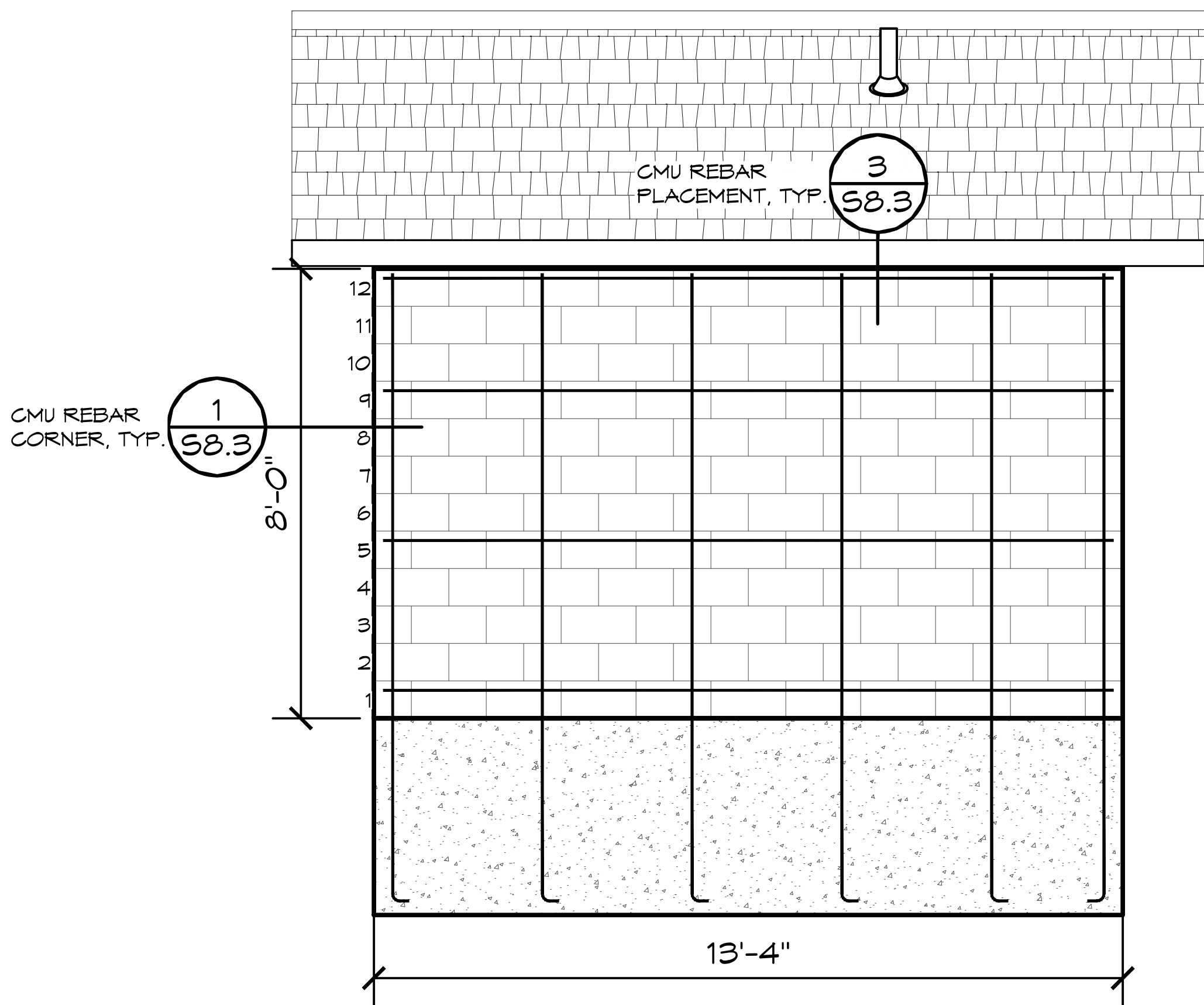
ROMTEC 225-041

PROJECT:	ARCOLA CREEK PARK RESTROOM		
	MADISON TWP, OHIO		
SHEET TITLE:	STRUCTURAL CMU ELEVATION VIEWS		
PROJECT #:	ACPO1		
DATE:	3/4/2025		
DRAWN BY:	ZW		
REV.	DATE:	BY:	
REVISIONS:			
SHEET NO.	S8.4		

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A CMU ELEVATION VIEW
SCALE: 1/4" = 1'-0"

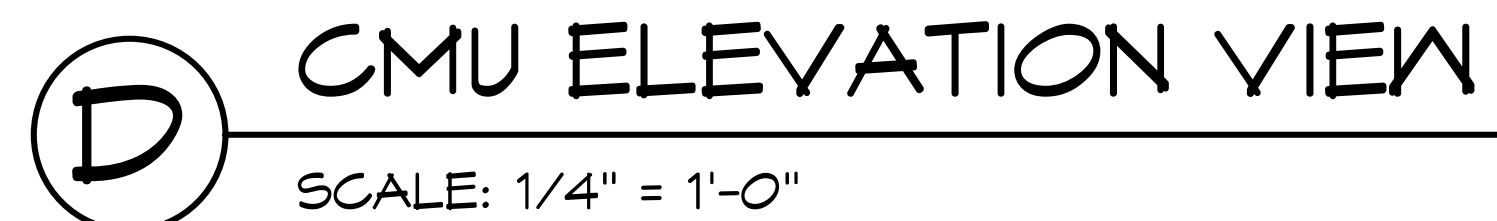
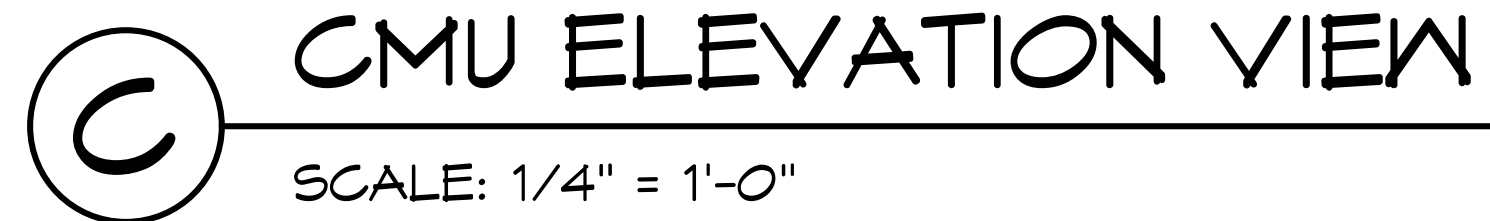


B CMU ELEVATION VIEW
SCALE: 1/4" = 1'-0"

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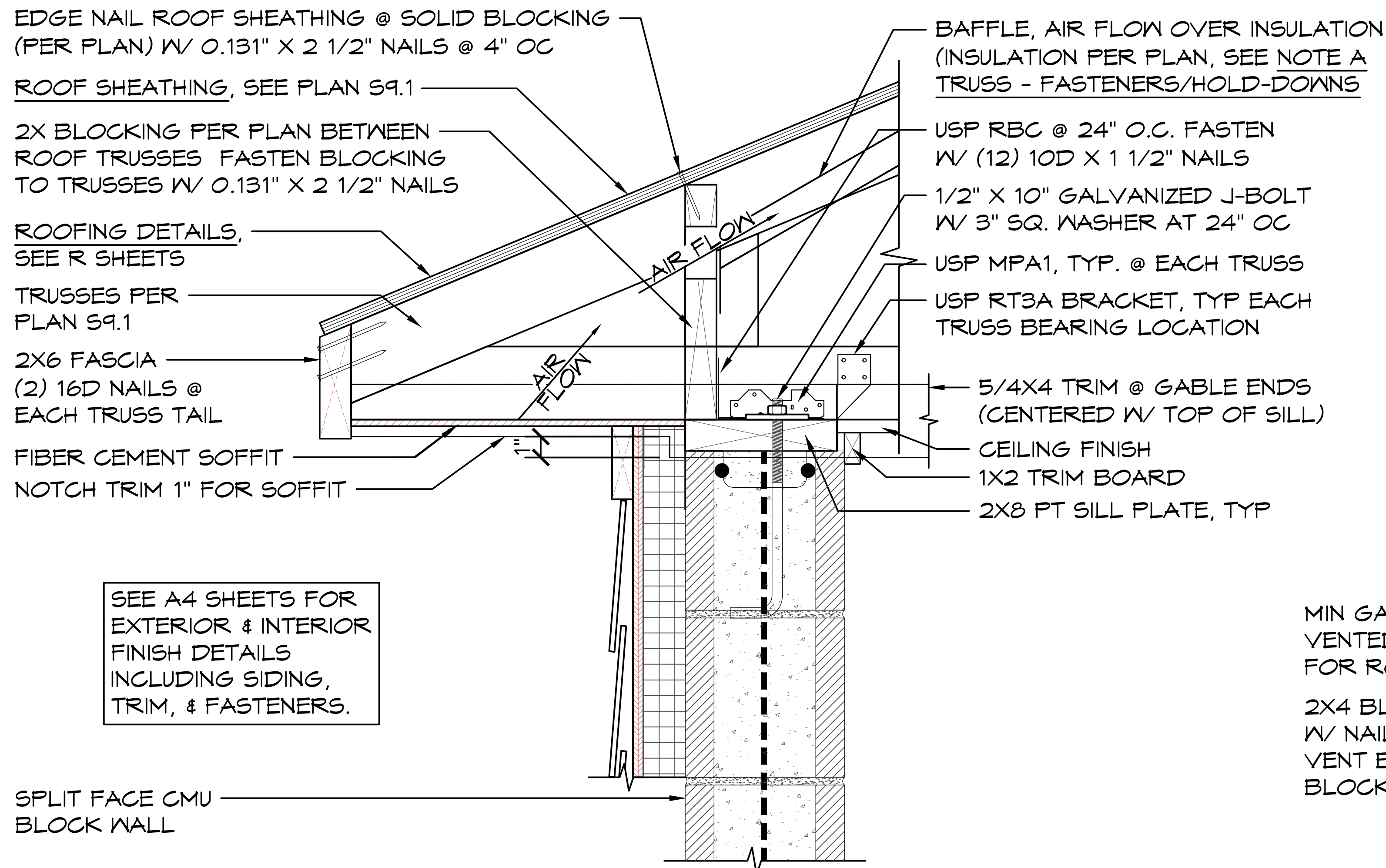


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SHEET NO. 58.5

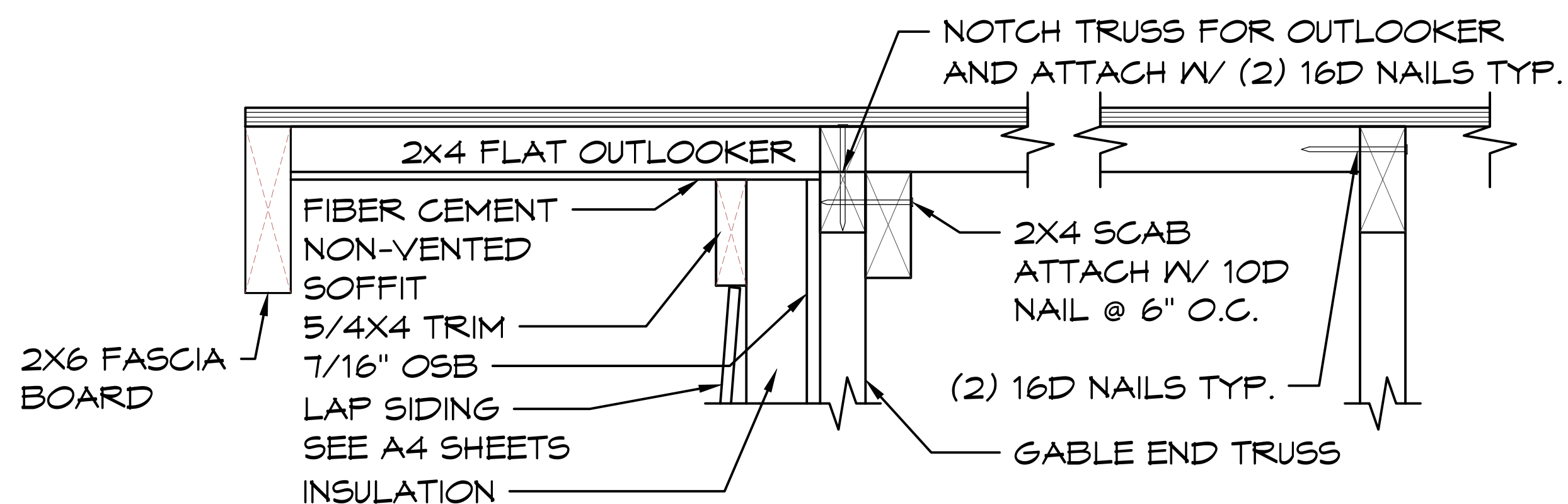
JOB CREATED: 3/12/2025 - LAST SAVED BY: zweiser ON 3/12/2025 - LAST PRINTED: 3/12/2025 - LOCATION: O:\Engineering\Plan Sets\ACPO1 - Arcola Creek Park, OH\ACPO1-Arcola Creek Park-2022, OH 250312.dwg



EAVE OVERHANG W/ TRUSS (ENERGY HEEL)

1

SCALE: 1 1/2" = 1'-0"



GABLE FRAMING DETAIL

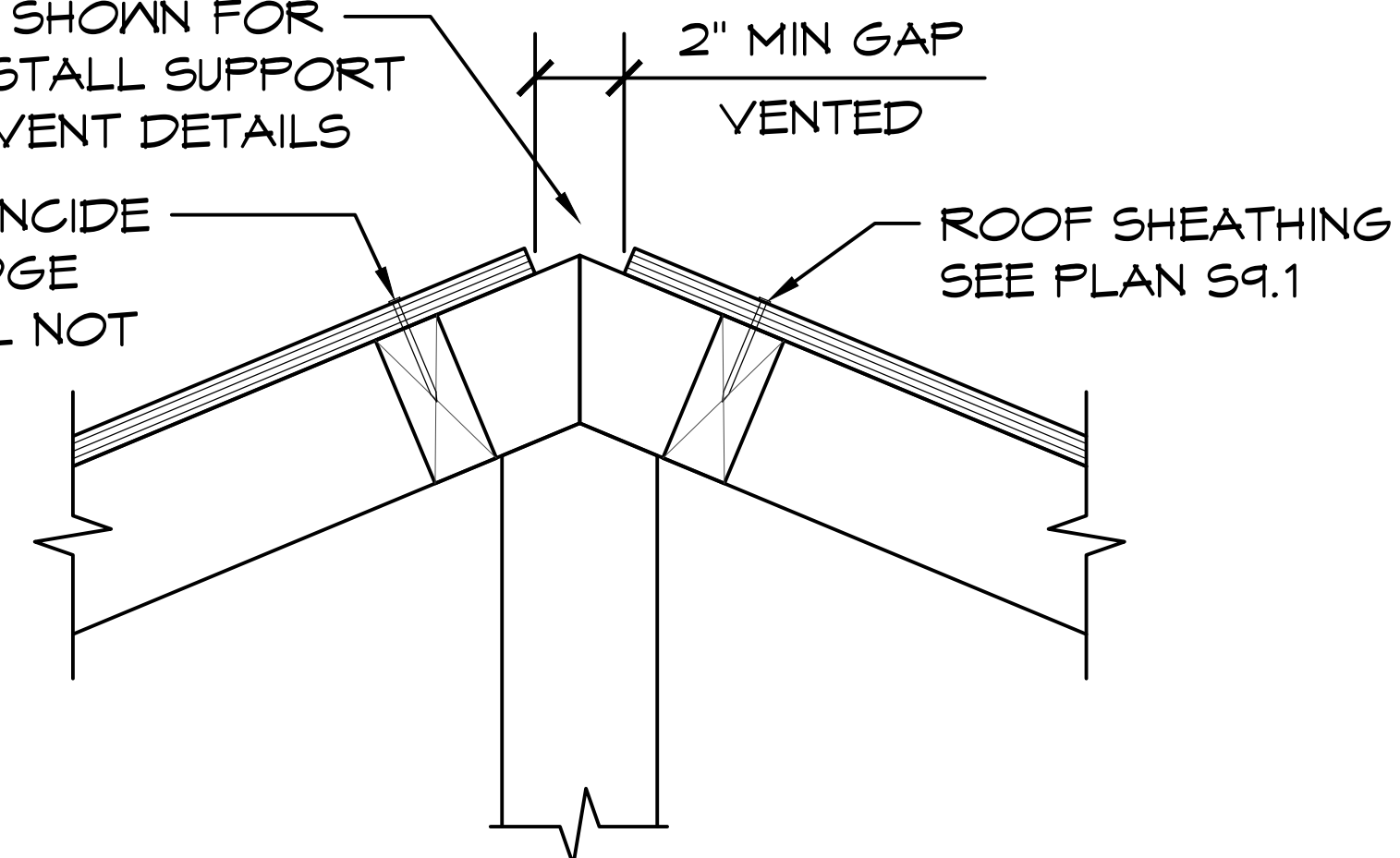
2

SCALE: 1 1/2" = 1'-0"

- A: INSULATION: R38
- B: UNDERLAYMENT REQUIREMENTS: ICE & WATER SHIELD AT RIDGE AND EAVE TO 24" PAST WALL THAN #30 FELT IN FIELD.
- C: CEILING FINISH: 5/8" GREEN GYPSUM BOARD CEILING FASTENED W/ #10 X 1 1/2" DRYWALL SCREWS (INSTALLER SUPPLIED)
- ROOF PITCH: 5:12 = 22.62°

MIN GAP REQUIRED AS SHOWN FOR VENTED RIDGE. SEE INSTALL SUPPORT FOR ROOFING/RIDGE VENT DETAILS

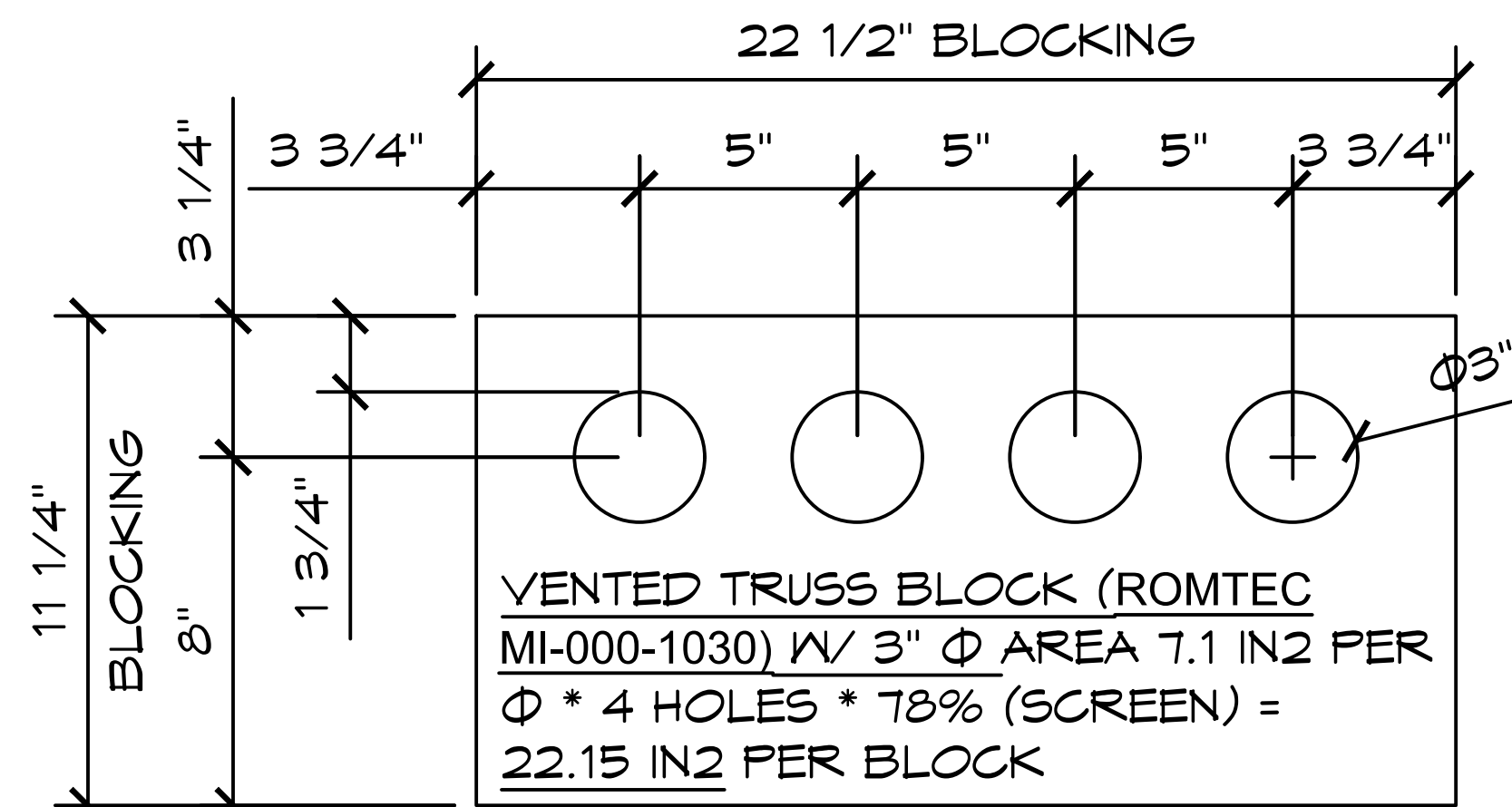
2X4 BLOCKING TO COINCIDE W/ NAILING OF THE RIDGE VENT BLOCKING SHALL NOT BLOCK AIR FLOW.



VENTED RIDGE DETAIL

3

SCALE: 1 1/2" = 1'-0"



2X12 VENTED BLOCK @ EAVES

4

SCALE: 1 1/2" = 1'-0"

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PROJECT: ARCOLA CREEK PARK RESTROOM
MADISON TWP, OHIO
SHEET TITLE: ROOF CONNECTION DETAILS

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV. DATE: BY:

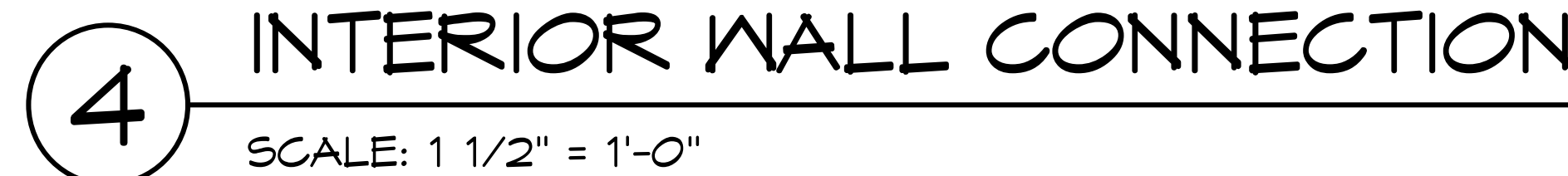
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PROJECT #:	ACPO1	
DATE:	3/4/2025	
DRAWN BY:	ZW	

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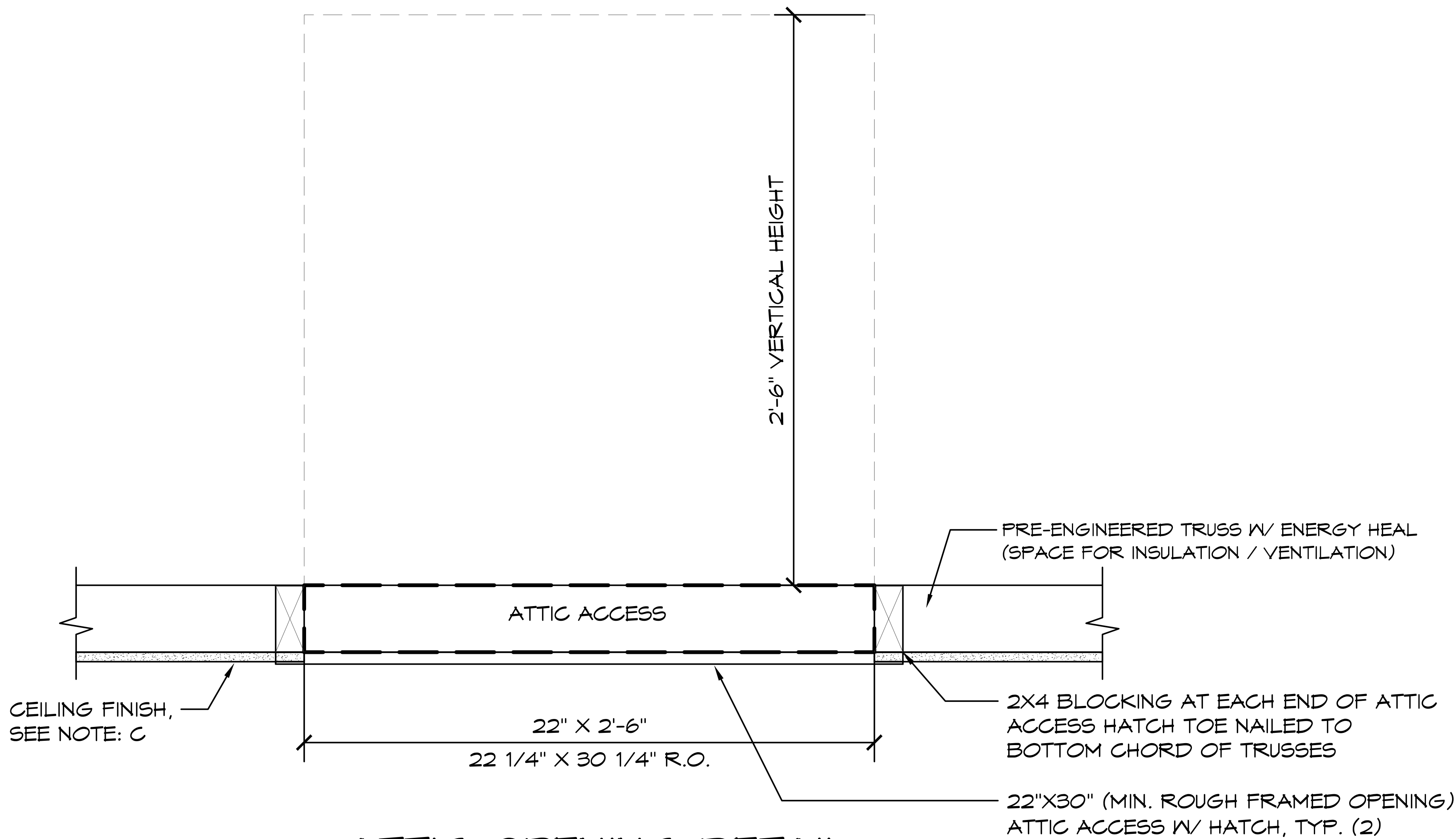
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1 ATTIC OPENING DETAIL
SCALE: 1 1/2" = 1'-0"

PROJECT: ARCOLA CREEK PARK RESTROOM
MADISON TWP, OHIO
SHEET TITLE: ROOF CONNECTION DETAILS

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV.	DATE:	BY:

REVISIONS:

SHEET NO. S10.3

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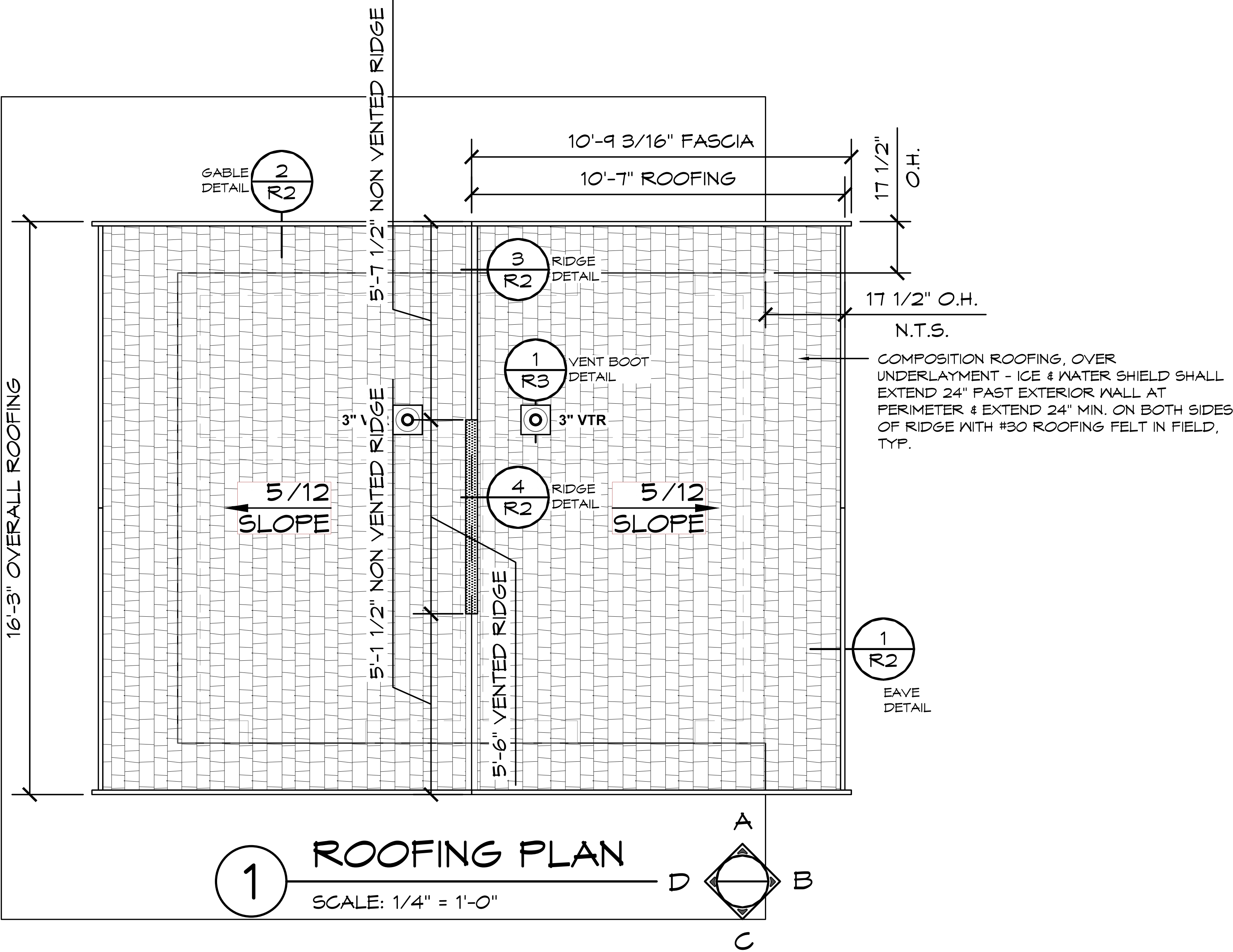
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NOTE:
FLASHING SECTIONS OVER
10'-6" IN LENGTH SHALL BE
OVERLAPPED BY 4" AND
EVERY EFFORT MUST BE
MADE TO ENSURE A
SYMMETRICAL APPEARANCE



PROJECT: ARCOLA CREEK PARK RESTROOM
MADISON TWP, OHIO
SHEET TITLE: ROOFING PLAN

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

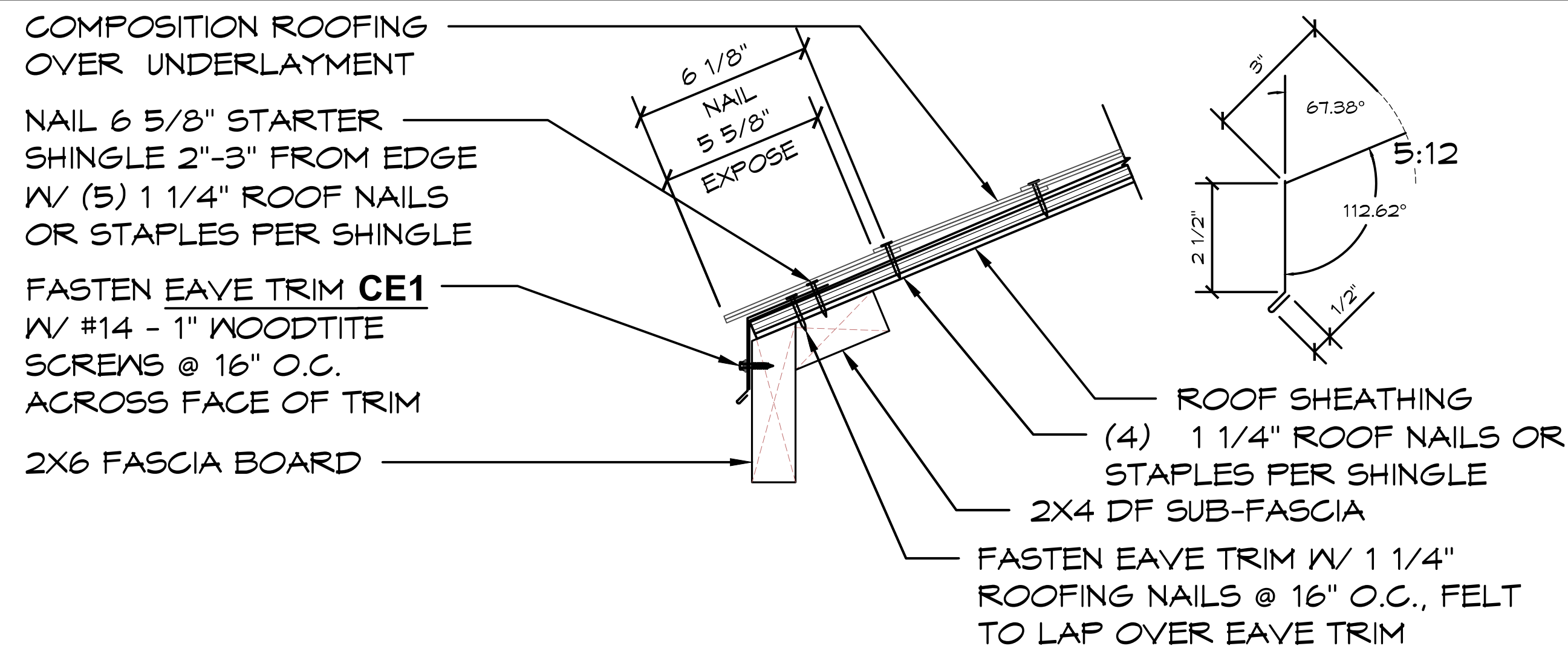
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REVISIONS:

R1

SHEET NO.

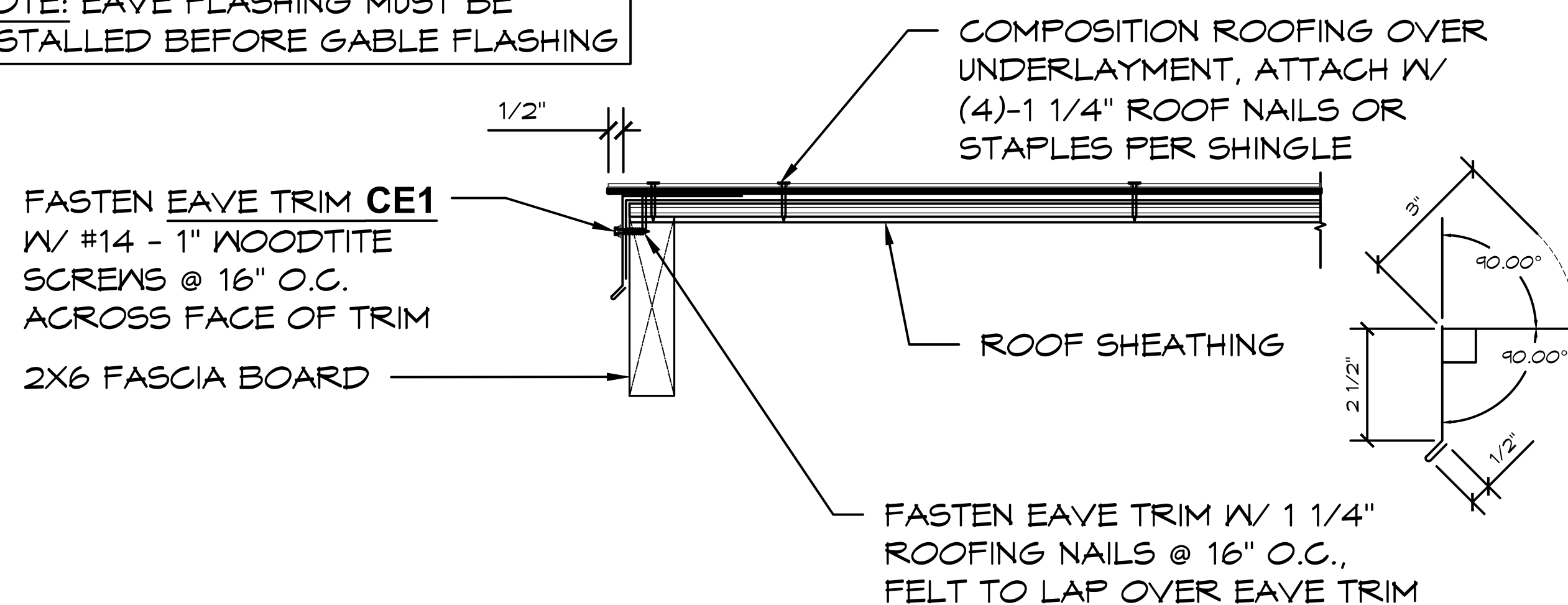
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1 COMPOSITION - EAVE DETAIL

SCALE: 1 1/2" = 1'-0"

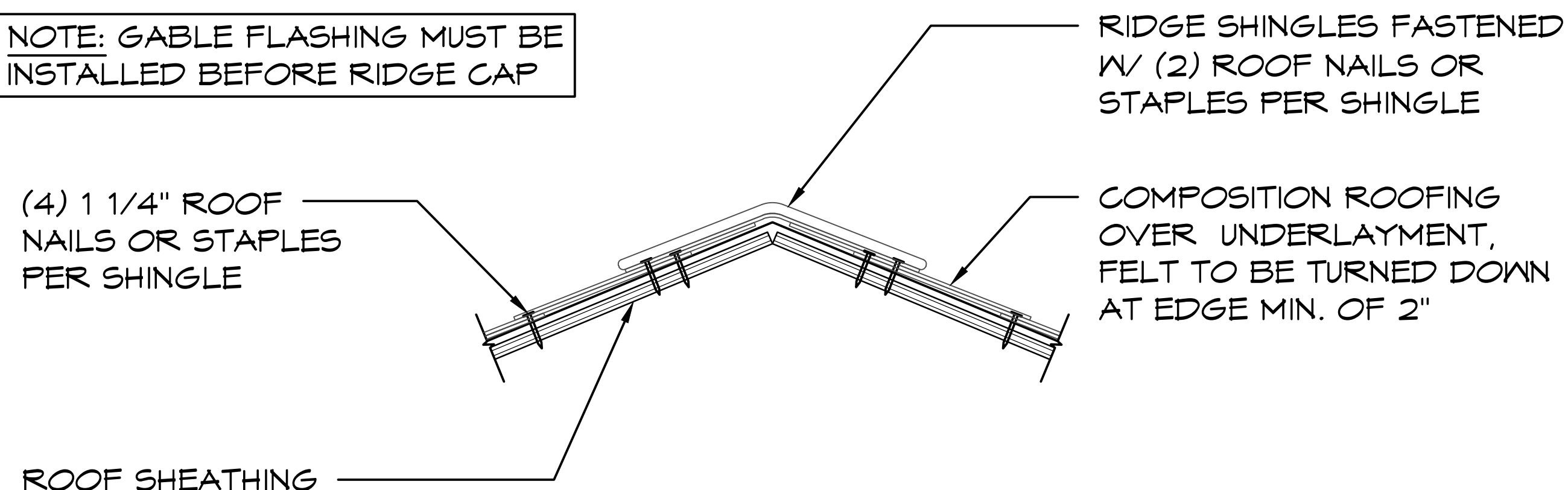
NOTE: EAVE FLASHING MUST BE INSTALLED BEFORE GABLE FLASHING



2 COMPOSITION - GABLE DETAIL

SCALE: 1 1/2" = 1'-0"

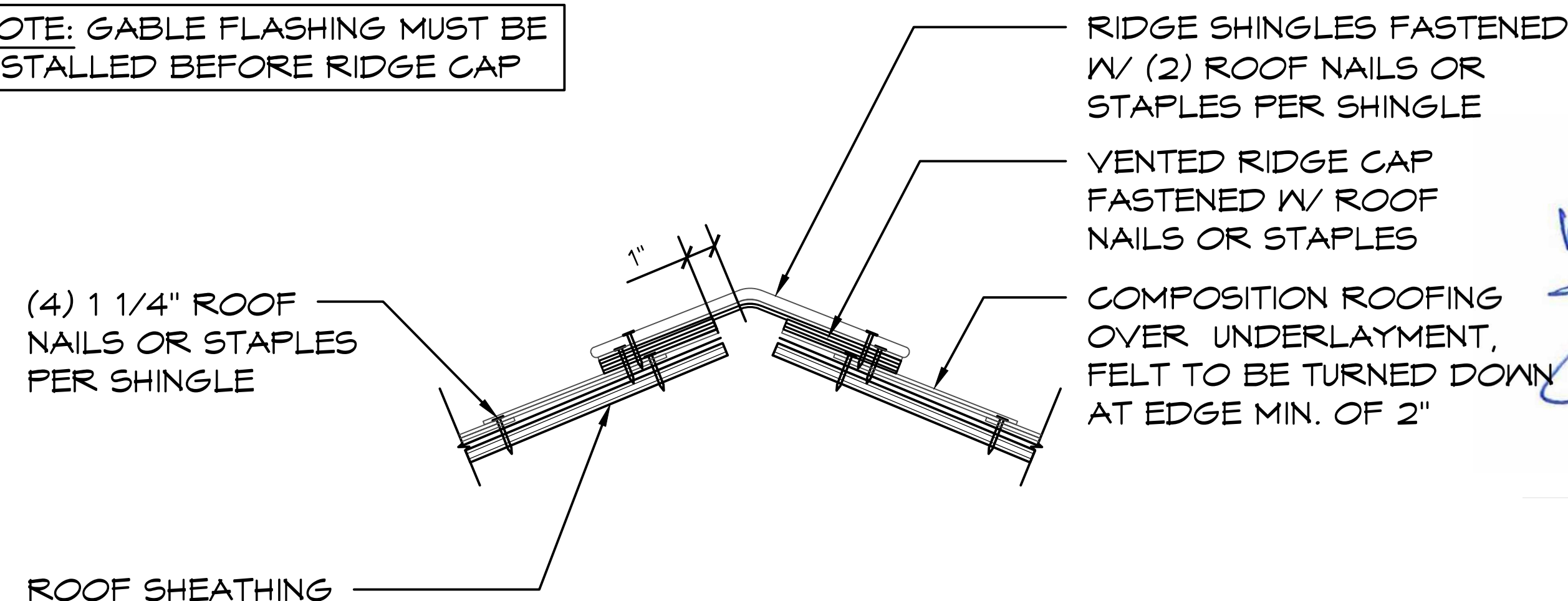
NOTE: GABLE FLASHING MUST BE INSTALLED BEFORE RIDGE CAP



3 COMPOSITION - NON-VENTED RIDGE DETAIL

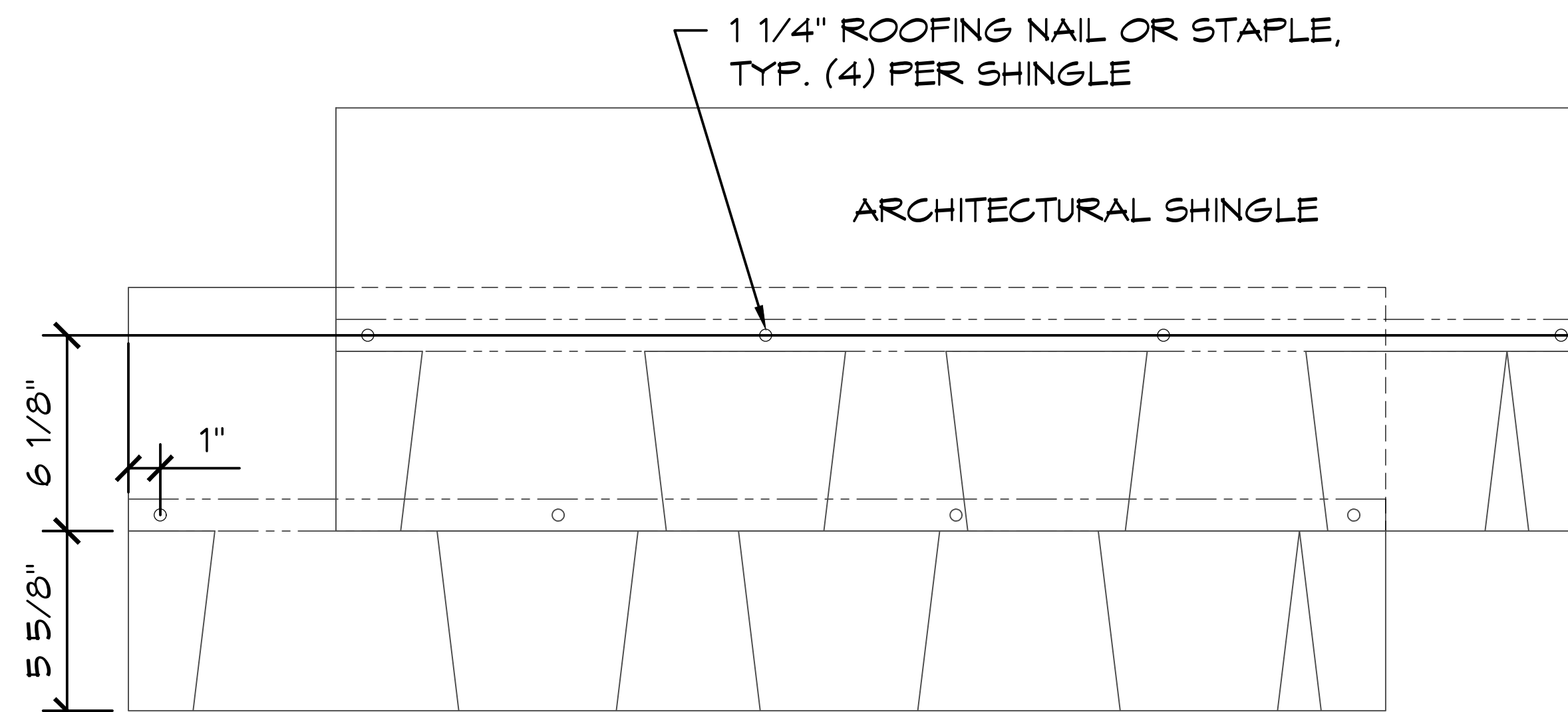
SCALE: 1 1/2" = 1'-0"

NOTE: GABLE FLASHING MUST BE INSTALLED BEFORE RIDGE CAP



4 COMPOSITION - VENTED RIDGE DETAIL

SCALE: 1 1/2" = 1'-0"



5 COMPOSITION - TYP. INSTALL DETAIL

SCALE: 1 1/2" = 1'-0"

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PROJECT: ARCOLA CREEK PARK RESTROOM

MADISON TWP, OHIO

SHEET TITLE: ROOFING DETAILS

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

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REVISIONS:

R2

SHEET NO.

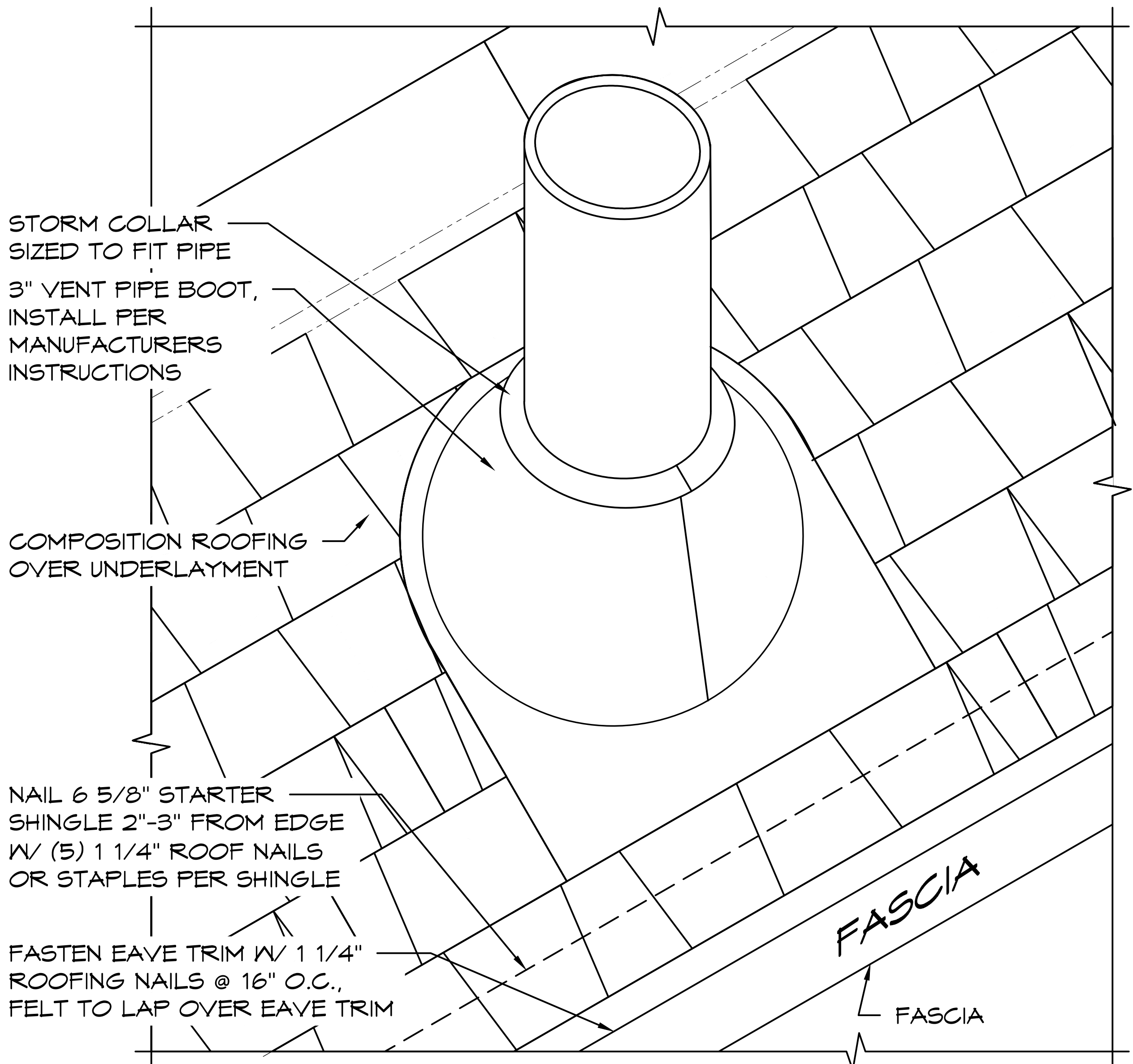
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1 COMPOSITION - 3" VENT BOOT DETAIL
SCALE: N.T.S.

PROJECT: ARCOLA CREEK PARK RESTROOM
MADISON TWP, OHIO
SHEET TITLE: ROOFING DETAILS

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV.	DATE:	BY:

REVISIONS:

R3

SHEET NO.

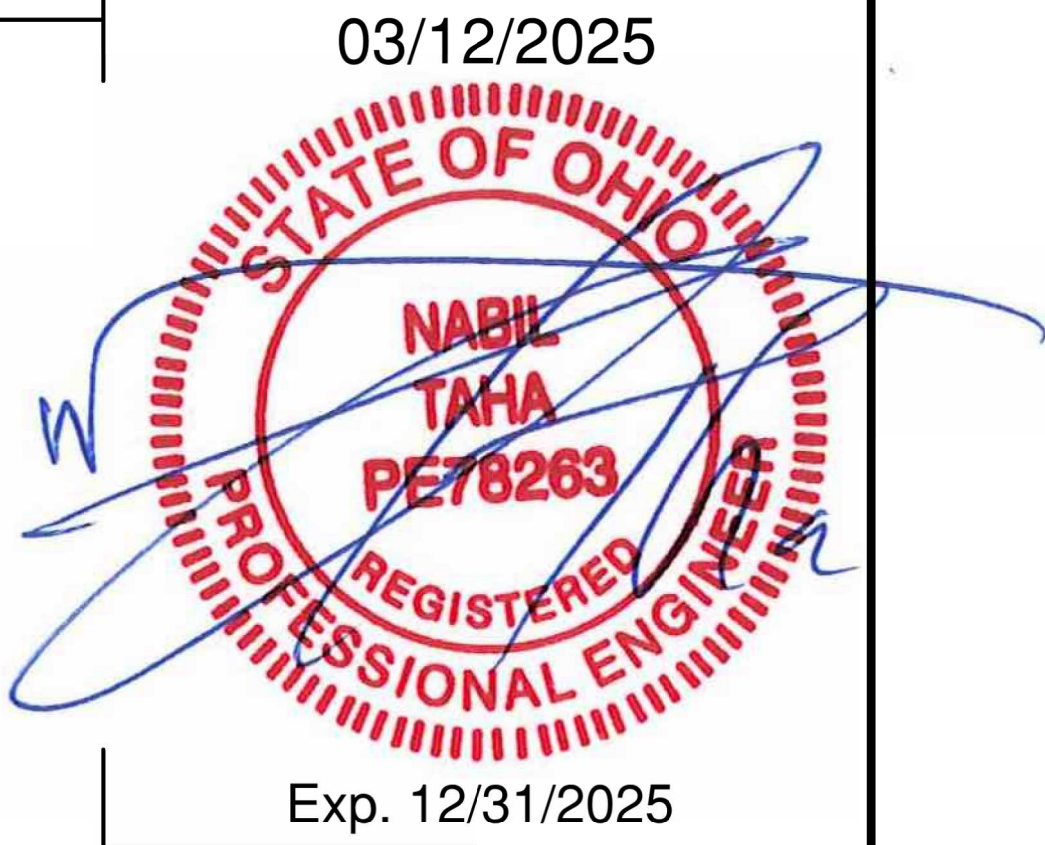
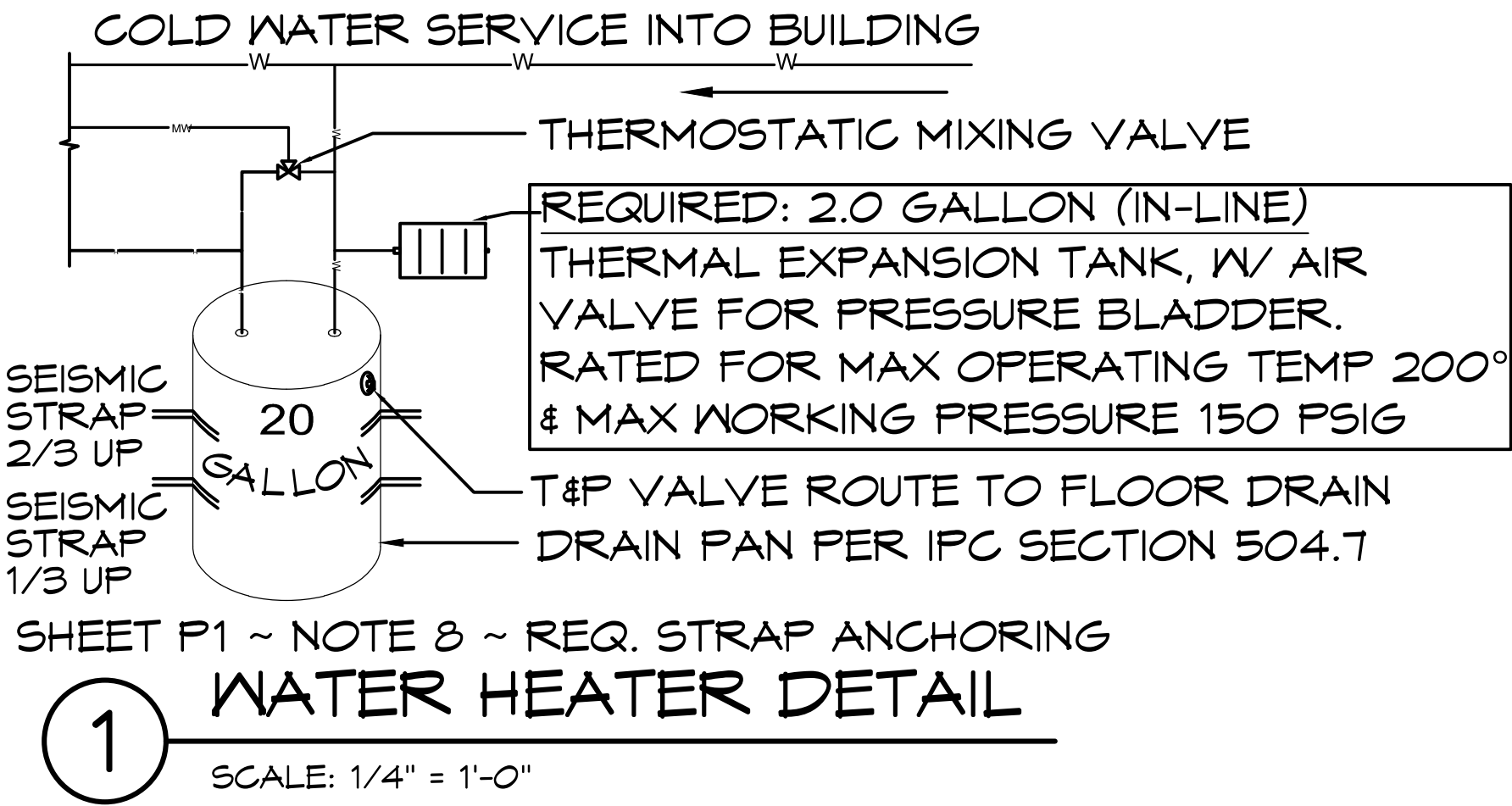
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INTERNATIONAL PLUMBING CODE											
SYM	FIXTURE TYPE	SEWER	VENT	COLD WATER	HOT WATER	MIXED WATER	NO OF FIXT.	W. FIXT. UNITS/EA	TOTAL W. FIXT UNITS	DR. FIXT UNITS	TOTAL DR. FIXT. UNITS
WC-1	ADA TOILET	3"	2"	1"	X	X	2	10	10	4	8
LV-1	HAND SINK	1 1/4"	1 1/2"	1/2"	X	X	2	2	4	1	2
DF-1	DRINKING FOUNTAIN	1 1/2"	1 1/2"	1/2"	X	X	3	.25	.75	.5	1.5
HB-1	WALL HYDRANT ANTI-FREEZE	X	X	3/4"	X	X	1	2	2	NA	NA
HB-2	WALL FAUCET	X	X	1/2"	X	X	1	2	2	NA	NA
WH-1	WATER HEATER (TANK)	X	X	3/4"	3/4"	1/2"	1	NA	NA	NA	NA
FD-1	FLOOR DRAIN	3"	1 1/2"	X	X	X	1	NA	NA	2	2
FD-2	FLOOR DRAIN (EMERGENCY)	3"	1 1/2"	X	X	X	2	NA	NA	NA	NA
								TOTAL	18.75	TOTAL	13.5

SIoux CHIEF
(3" W/6" STRAINER)

GENERAL PLUMBING NOTES:

1. ALL PIPE (WATER, SEWER, VENT), JOINTS, AND WORK SHALL CONFORM TO INTERNATIONAL PLUMBING CODE, STATE CODES, COUNTY AND LOCAL CODES AND ORDINANCES.
2. CONTRACTOR TO CONFIRM LOCATIONS OF SEWER AND WATER TIE-INS
3. CONTRACTOR TO SOLIDLY BRACE ALL PIPING TIGHT AGAINST WALLS. FOR LONG OR COMPLICATED RUNS, SECURELY MOUNT USING UNISTRUT, IN STRAIGHT AND UNIFORM MANNER FOR FINISHED APPEARANCE. PIPING SHOWN IS DIAGRAMMATIC ONLY AND ACTUAL DESIGN BY CONTRACTOR.
4. CONTRACTOR MAY CHANGE PIPE SIZING IN FIELD TO PROVIDE ADEQUATE WATER PRESSURE TO ALL PLUMBING FIXTURES AS APPROVED BY INSPECTOR. ROMTEC BUILDINGS ARE DESIGNED TO HAVE 40-60 PSI WATER PRESSURE FOR THE PLUMBING FIXTURES. IF THE SITE HAS A PRESSURE OTHER THAN THIS, IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE THE PRESSURE REDUCER OR BOOSTER PUMP NECESSARY.
5. CONTRACTOR TO DETERMINE AND PROVIDE MEANS FOR GRAVITY DRAINING ALL PLUMBING FIXTURES TO SEPTIC OR SANITARY SEWER SYSTEM. INSTALLER TO PROVIDE A CLEAN-OUT BENEATH ALL SINKS AND LAVATORY AS REQUIRED BY CODE.
6. CONTRACTOR TO DETERMINE AND PROVIDE MEANS FOR SUPPLYING WATER TO ALL PLUMBING FIXTURES AND INSTALL WATER SERVICE SHUTOFF VALVE; TYPICALLY LOCATED WITHIN THE MECHANICAL ROOM.
7. IF THE SITE REQUIRES AN ACCESSIBLE BACK FLOW PREVENTER AND/OR PRESSURE REDUCER OR BOOSTER PUMP IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE.
8. WHEN INCLUDED WATER HEATERS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ALL STATE, COUNTY, AND LOCAL CODES AND ORDINANCES.
9. FLUSHOMETERS ASSOCIATED WITH TOILETS USE NO MORE THAN 1.6 GALLONS PER FLUSH. FLUSHOMETERS ASSOCIATED WITH URINALS USE NO MORE THAN 1.0 GALLON PER FLUSH. BOTH OF THE ABOVE SHALL MEET PERFORMANCE STANDARDS BY ANSI A112.19.2 H&S CODE, SECTION 17921.3(B)
10. WHEN FIXTURES REQUIRE WALL CARRIERS THE WALL CARRIER SHALL BE SUPPLIED BY CONTRACTOR.
11. UNLESS SPECIFIED IN THE ROMTEC SUBMITTAL, ROMTEC DOES NOT SUPPLY INSULATION OR "FREEZE PROTECTION" FOR PLUMBING. "THE OWNER MAY NEED TO WINTERIZE THEIR BUILDING."





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PROJECT:

ARCOLA CREEK PARK RESTROOM

SHEET TITLE:

PLUMBING SCHEDULE

PROJECT #:

ACPO1

DATE:

3/4/2025

DRAWN BY:

ZW

REV.

DATE:

BY:

REVISIONS:

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ROMTEC 225-041

WATER-PLUMBING LEGEND

—W— COLD WATER
—MW— MIXED WATER
—H— HOT WATER

SEWER-PLUMBING LEGEND

—SS— SANITARY SEWER

*FIXTURES ARE SYMBOLIC ONLY,
REFER TO SPECIFICATIONS &
PRODUCT LITERATURE FOR THE
FIXTURE ROUGH-IN MEASUREMENTS &
INSTALLATION DETAILS.

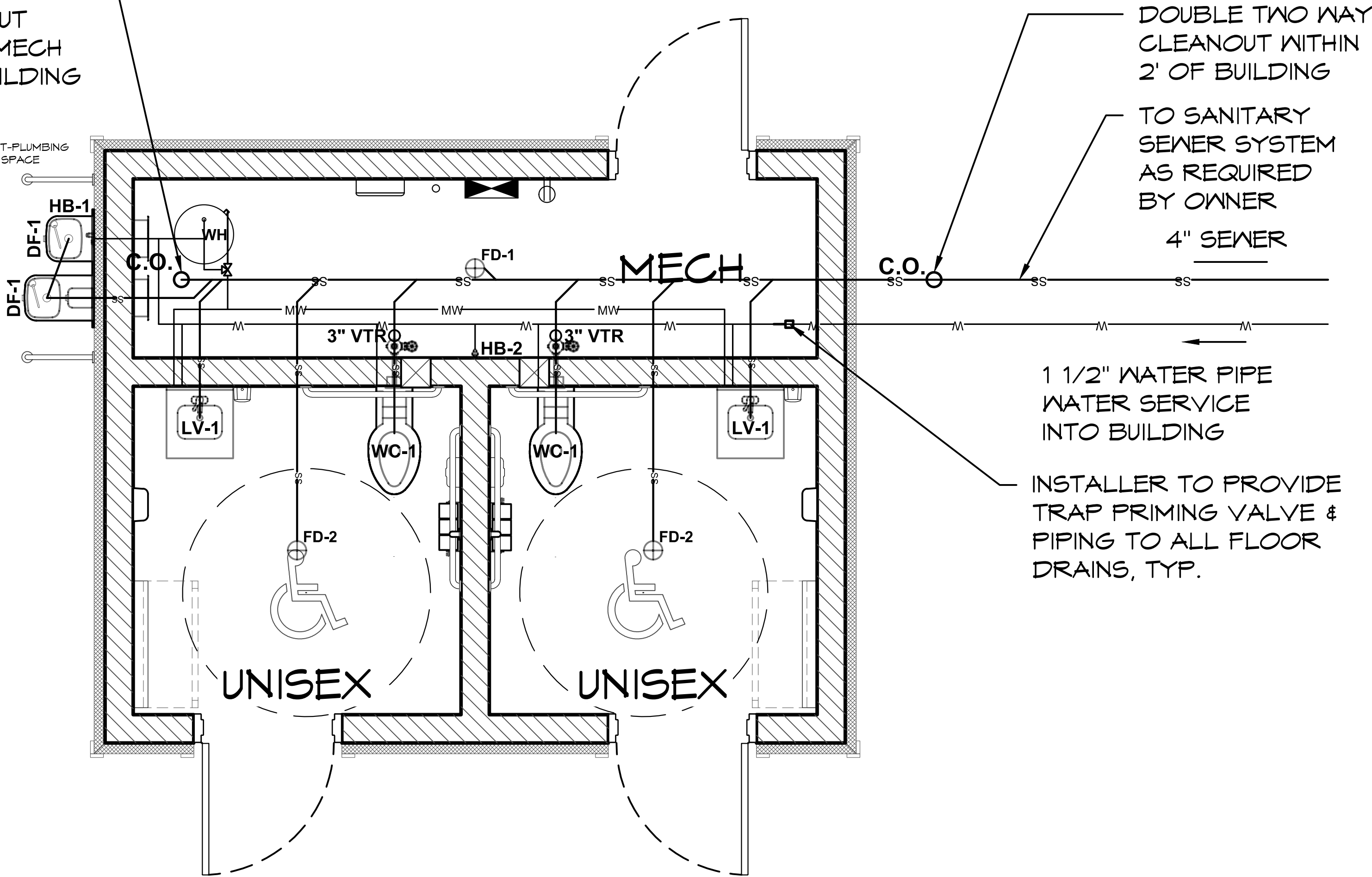
IPC NOTES

NOTES:

1. WATER PIPE SIZE AND PRESSURE REQUIREMENTS MUST BE CONFIRMED BY PLUMBING CONTRACTOR BASED ON LOCAL SUPPLY.
2. FIXTURE & FIXTURE CONNECTIONS ARE SYMBOLIC IN NATURE ONLY. REFER TO MANUFACTURER LITERATURE FOR EXACT FIXTURE SPECIFICATIONS.
3. ALL SANITARY AND DRAIN LINES SHALL BE SCHEDULE 40 PVC OR ABS.
4. ALL WATER LINES SHALL BE COPPER OR PER LOCAL CODE. NO JOINTS BENEATH THE SLAB.
5. WATER PIPE SIZING IS A MINIMUM SUGGESTION. PLUMBING CONTRACTOR WILL MAKE THE FINAL DETERMINATION.

COMBINED TEE-WYE
WITH CLEANOUT
LOCATED IN MECH
ROOM OF BUILDING

NOTE:
FREEZE RESISTANT-PLUMBING
TO BE IN HEATED SPACE



1 PLUMBING PLAN
SCALE: 1/4" = 1'-0"

PROJECT:

ARCOLA CREEK PARK RESTROOM

MADISON TWP, OHIO

SHEET TITLE:

PLUMBING WATER PLAN

PROJECT #: ACP01

DATE: 3/4/2025

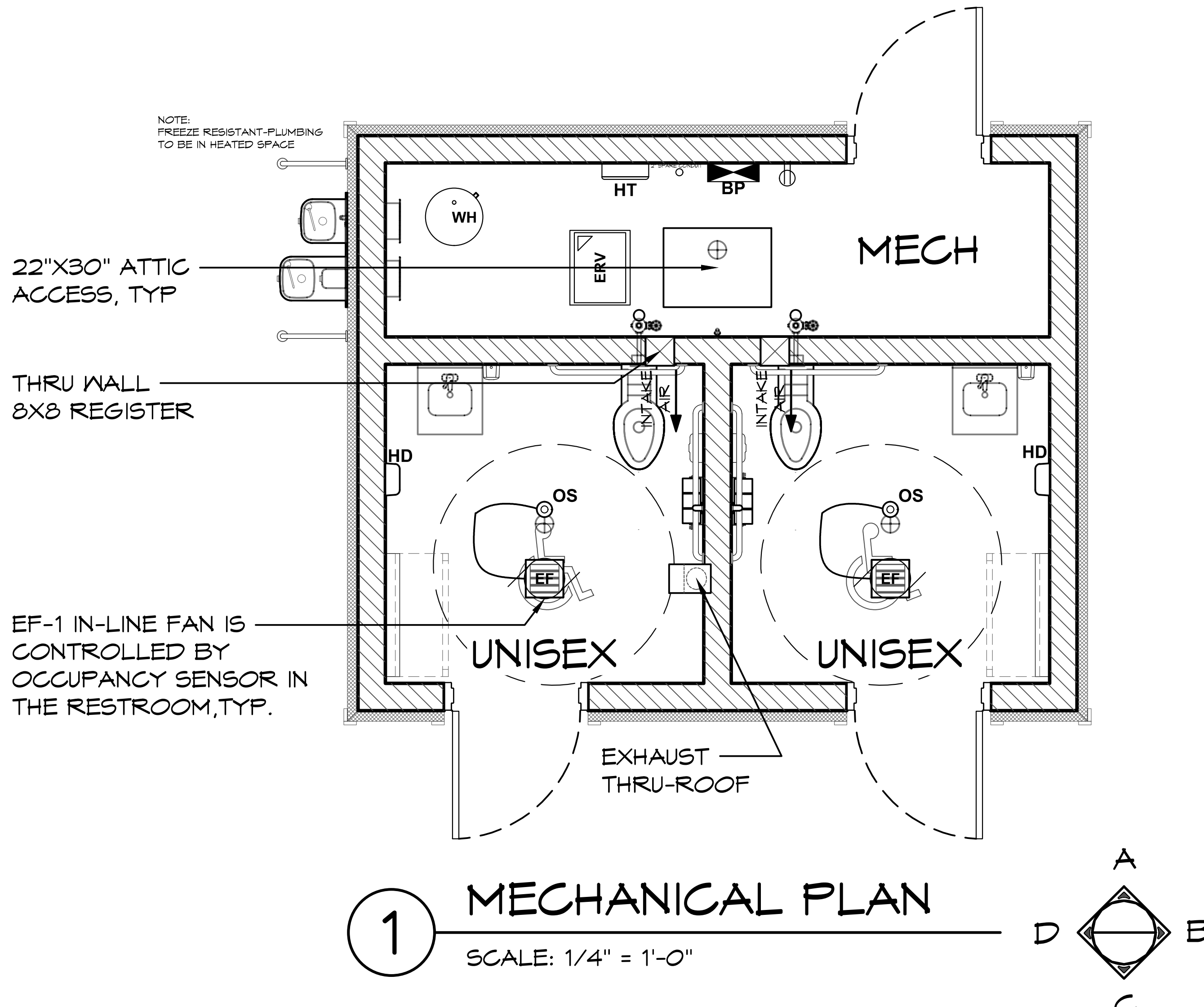
DRAWN BY: ZW

REV.	DATE:	BY:

REVISIONS:

SHEET NO.

P2



NOTE:
FREEZE RESISTANT PLUMBING
TO BE IN HEATED SPACE

22"X30" ATTIC
ACCESS, TYP

THRU WALL
8X8 REGISTER

EF-1 IN-LINE FAN IS
CONTROLLED BY
OCCUPANCY SENSOR IN
THE RESTROOM, TYP.

1 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

MINIMUM VENTILATION RATES:

PUBLIC SPACES

TOILET ROOMS (PER WC OR UR)
EXHAUST AIRFLOW RATE
50 CFM - OPERATES CONTINUOUSLY WHILE OCCUPIED
70 CFM - OPERATES INTERMITTENTLY

MECHANICAL EXHAUST SYSTEM SHALL
BE INSTALLED PER INSTALL
INSTRUCTIONS & DETAILS IN THE:

"FINAL"
ROMTEC SCOPE OF SUPPLY AND
DESIGN SUBMITTAL

- NOTES:
1. EXHAUST FANS AND ALL DUCTING TO BE MOUNTED USING DUCT HANGERS OR EQUIVALENT PER DIRECTIONS FURNISHED BY MANUFACTURE, IN ACCORDANCE WITH THE MECHANICAL CODE AND SMACNA STANDARDS.
 2. ALL DUCTWORK: RIGID DUCT W/ R8.3 INSULATED WRAP (UL LISTED CLASS 1 AIR DUCT). PROVIDE SHEETMETAL FITTINGS AT MAIN DUCT RUNOUTS AND CONNECTIONS WITH A MINIMUM OF THREE SHEETMETAL SCREWS AND TAPED TO PROVIDE AN AIRTIGHT SEAL. SUPPORT FLEX AS DIRECTED BY MANUFACTURER, NOT TO EXCEED 4'-0".
 3. THE DUCT DISCHARGES THRU A ROOF CAP W/ DAMPER, SCREEN AND COLLAR.
 4. BUTTERFLY DAMPER PROVIDED IN THE DUCT LINE TO EACH REGISTER
 5. FANS ARE CONTROLLED BY OCCUPANCY SENSORS LOCATED IN EACH ROOM.

03/12/2025

STATE OF OHIO
NABIL TAHA
PE78263
REGISTERED PROFESSIONAL ENGINEER

Exp. 12/31/2025

ROMTEC
www.romtec.com
(541) 496-3541 FAX (541) 496-0803

PSE Consulting Engineers, Inc.
www.structure1.com
Klamath Falls Office
250 Main Klamath Falls, Oregon 97603
Phone: (541) 850-6300 Fax: (541) 850-6233
info@structure1.com

PROJECT: **ARCOLA CREEK PARK RESTROOM**
SHEET TITLE: **MADISON TWP, OHIO**
MECHANICAL PLAN

PROJECT #: **ACPO1**
DATE: **3/4/2025**
DRAWN BY: **ZW**

REV.	DATE:	BY:

REVISIONS:


M1

SHEET NO.

1. ALL WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.
2. OWNER TO PROVIDE TEMPORARY POWER AS REQUIRED DURING COURSE OF CONSTRUCTION.
3. ELECTRICAL SERVICE EQUIPMENT SUPPLIED BY OTHERS UNDER SEPARATE SUBMITTAL.
4. THE AIC VALUES SHOWN ON THESE ROMTEC PLANS ARE TO BE MADE CLEARLY AVAILABLE TO THE ELECTRICAL ENGINEER OF RECORD THAT WILL DESIGN THE MAIN SERVICE.
5. THE INSTALLER SHALL FURNISH & INSTALL SPECIFICATION GRADE CIRCUIT BREAKERS, WIRING, CONDUIT, SWITCHES AND GFI RECEPTACLES THROUGHOUT. INTERIOR RECEPTACLES & SWITCHES SHALL HAVE STAINLESS STEEL COVERPLATES AND EXTERIOR RECEPTACLES SHALL BE INSTALLED WITH A WEATHERPROOF IN USE COVER.
6. ELECTRICAL CONDUIT IS TO BE RUN WITHIN THE WALL WHEN POSSIBLE, EXCEPT IN THE MECHANICAL ROOM.
7. FOR MECHANICAL ROOM ALL EXPOSED CONDUIT IS TO BE SURFACE MOUNTED AND RUN TIGHT TO CEILING AS REQUIRED.
8. COORDINATE AC OUTLET HEIGHTS WITH OWNER PRIOR TO ROUGH-IN.

QTY	SYMBOL	DESCRIPTION	QTY
1		200 AMP BREAKER PANEL	2
PER PLAN		HOME RUN TO BREAKER PANEL	1
PER PLAN		110 VAC DUPLEX RECEPTACLE, GROUND FAULT PROTECTED MOUNTED MIN OF 15" TO MAX OF 48" ABOVE THE FLOOR CONFIRM EXACT LOCATION & HEIGHT WITH OWNER OR OWNERS REPRESENTATIVE.	
1		SWITCH, SINGLE POLE MOUNTED A MAX OF 48" ABOVE THE FLOOR	
4		LIGHT FIXTURE, WALL MOUNT UL LISTED TO U.S. SAFETY STANDARDS FOR ALL WET LOCATIONS WALL MOUNT, LED DOWN LIGHT, LITHONIA OLLWD: (9W) (.08A)	
3		48" LED VAPOR TIGHT CEILING/WALL MOUNT LIGHT LITHONIA CSVT L48 5000LM 40K 80CRI 4,298LM 40K: (35.3 W) (.2942 A)	
1		PHOTO CELL, w/ WEATHER PROOF COVER	
2		OCCUPANCY SENSOR CEILING MOUNT ACUITY SENSOR SWITCH CM PDT 10 W/ POWER PACK PP20 (INPUT 120/277VAC: OUTPUT 120/277VAC, 20A - GENERAL USE)	
2		HAND DRYER WALL MOUNT, THINAIR TA-SB: (915W) (8.318A)	
1		WALL HEATER WITH THERMOSTAT, SURFACE MOUNT (WALL CAN PART # LPW5MF-WD) KING, LPW1222T-S2-WD-R: (1250-2750W) (10.4-18.7A MAX)	
1		TRANSFORMER SLOAN, EL-154: (50 VA (WATTS)) (.42A)	
1		TANK WATER HEATER (ELECTRIC) PROVIDE A WATER HEATER DISCONNECT CAPABLE OF SIMULTANEOUSLY DISCONNECTING ALL UNGROUND CONDUCTORS. THE DISCONNECTING MEANS SHALL BE WITHIN SIGHT OF. WHERE THE DISCONNECTING MEANS IS OUT OF THE LINE OF SIGHT FROM ANY SECTION THAT IS ABLE TO BE ENERGIZED, THE DISCONNECTING MEANS SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION. 20 GAL TANK, AO SMITH EJCT-20 120 VOLT, 2500 WATTS, NON-SIMULTANEOUS	

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ROMTEC 225-041

ELECTRICAL SCHEDULE

[illegible]

E1

SHEET NO.

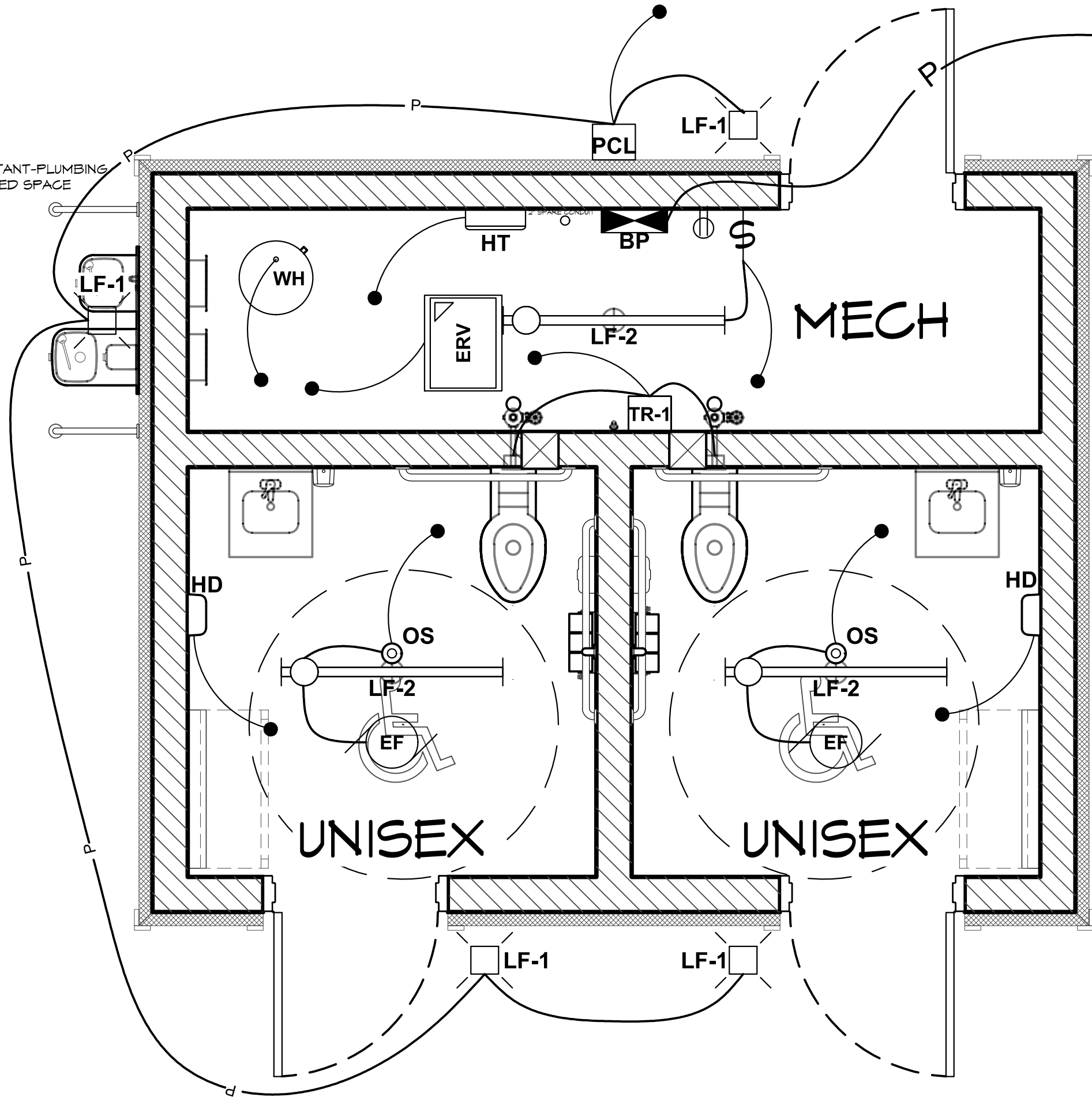
ROMTEC HAS DESIGNED THIS ELECTRICAL SYSTEM TO MEET THE NEEDS OF THIS SPECIFIC FACILITY. SITE DESIGN AND ENGINEERING BY OTHERS. OWNER IS RESPONSIBLE TO PROVIDE ALL SERVICE AND/OR UTILITY ENTRANCE DESIGN. FIELD VERIFY THAT SERVICE CONDUCTOR SIZE IS ADEQUATE FOR VOLTAGE DROP. ANY ADDITIONAL POWER OR LIGHTING LOADS NOT SHOWN ON THESE PLANS SHALL BE ENGINEERED BY OTHERS.

NOTE:
SEE SHEETS A1.4, A2.1, & A2.2
FOR LOCATIONS - HEIGHTS OF
ELECTRICAL FIXTURES.

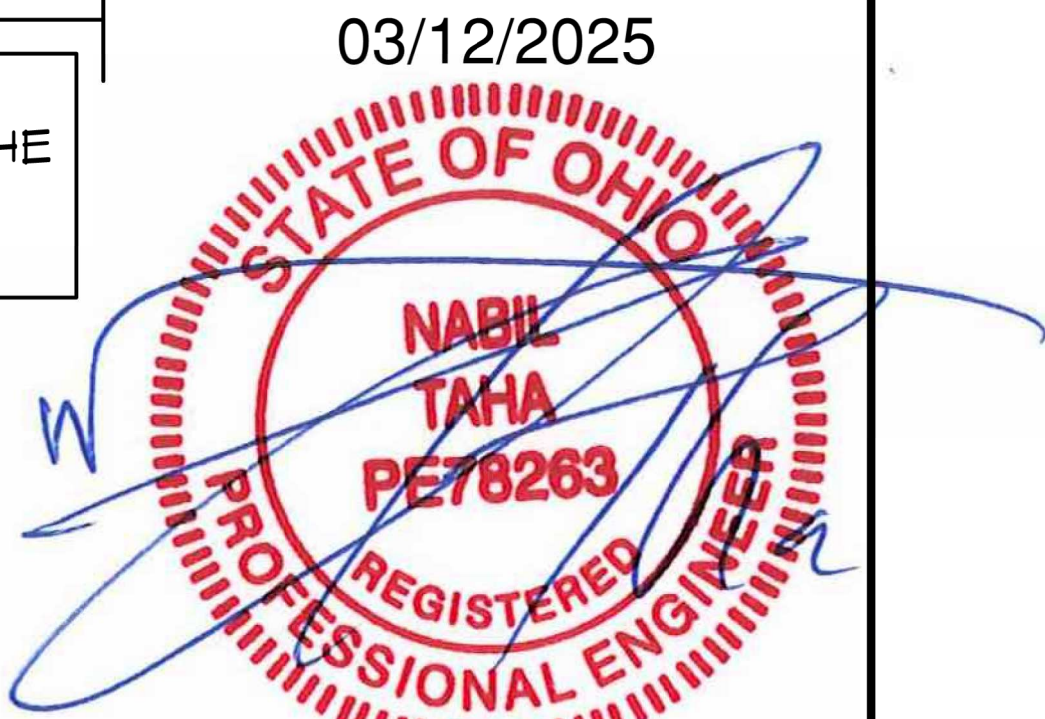
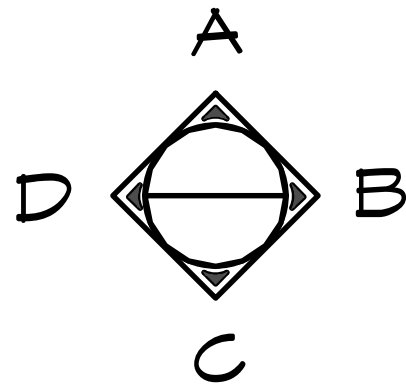
NOTE: BREAKER PANEL MAY BE
RELOCATED AT THE DISCRETION OF THE
INSTALLER, PANEL MUST MAINTAIN ALL
APPLICABLE CODE CLEARANCES.

NOTE:
FREEZE RESISTANT-PLUMBING
TO BE IN HEATED SPACE

UNDERGROUND ELECTRICAL
SERVICE VERIFY REQUIREMENTS
FOR TYING INTO SERVICE UTILITY
EQUIPMENT BY OTHERS.



1 ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



Exp. 12/31/2025

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ROMTEC 225-041

PROJECT: ARCOLA CREEK PARK RESTROOM
MADISON TWP, OHIO
SHEET TITLE: ELECTRICAL PLAN

PROJECT #: ACP01

DATE: 3/4/2025

DRAWN BY: ZW

REV.	DATE:	BY:

REVISIONS:

E2

SHEET NO.

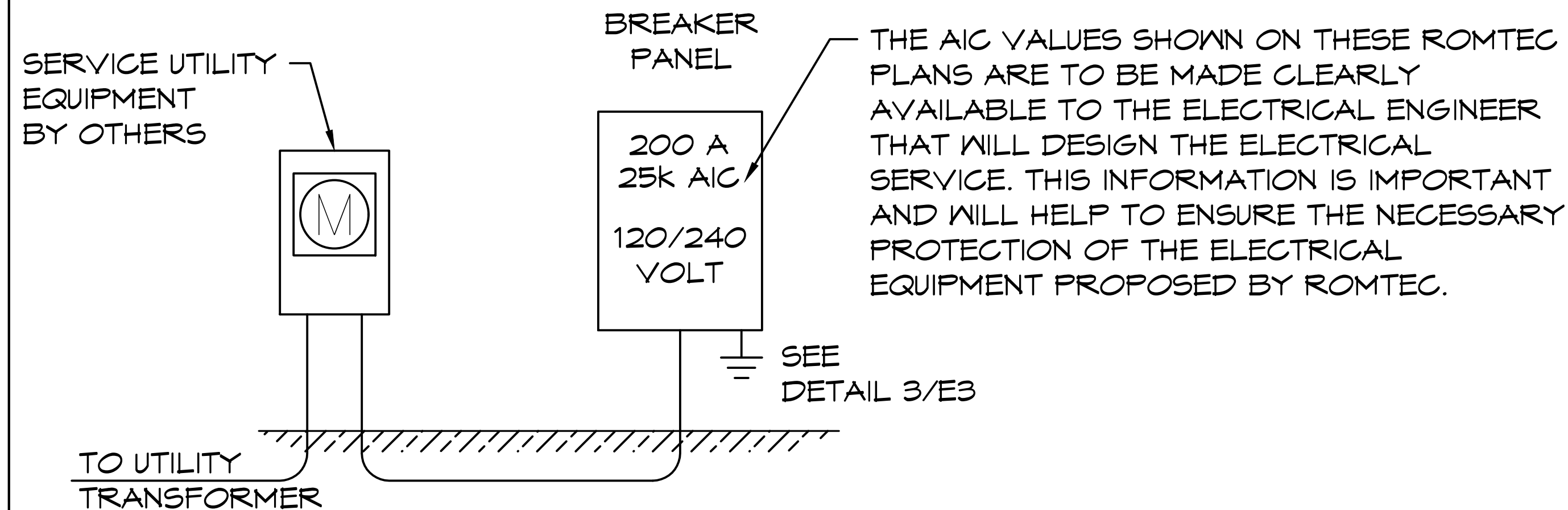
03/12/2025



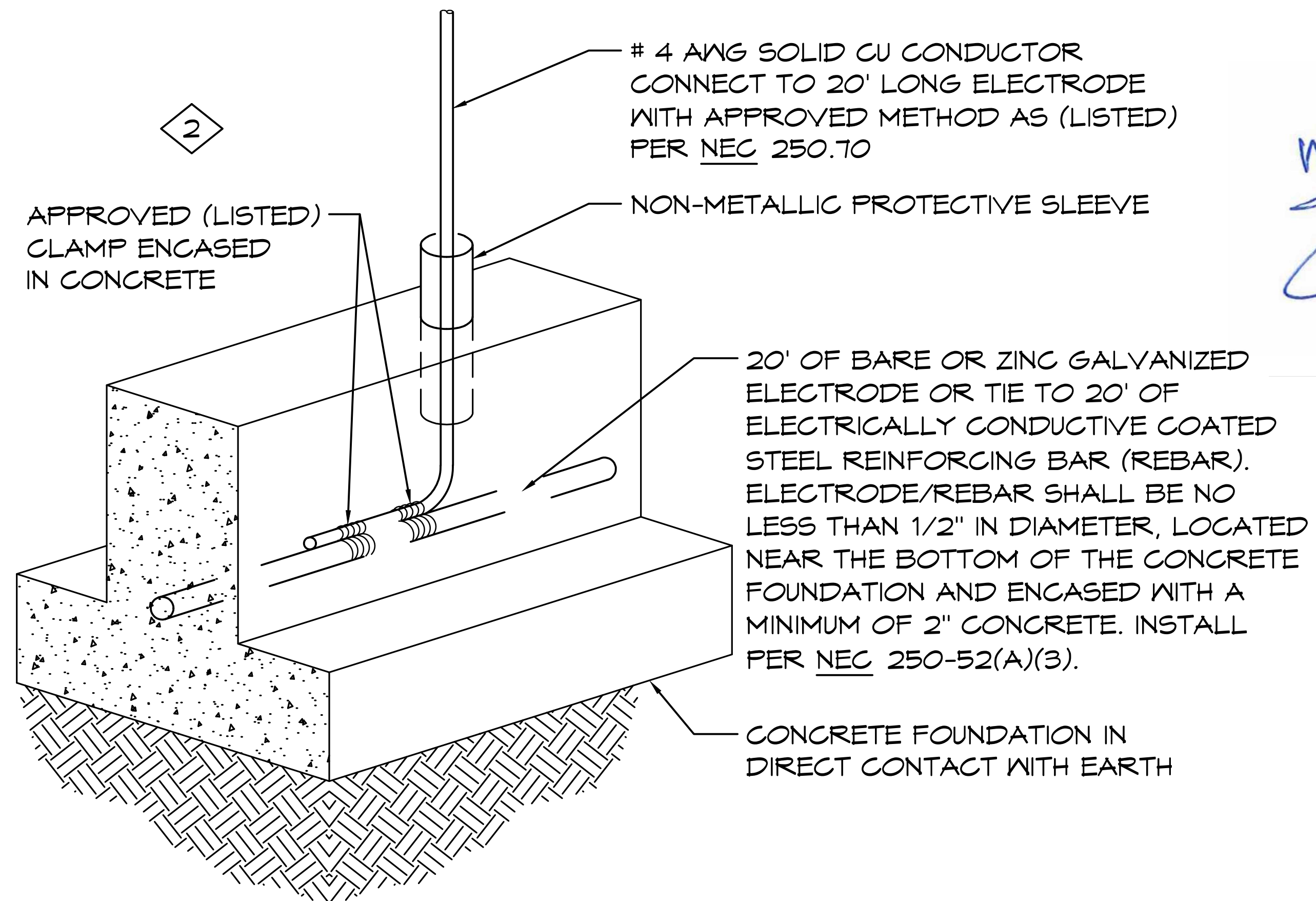
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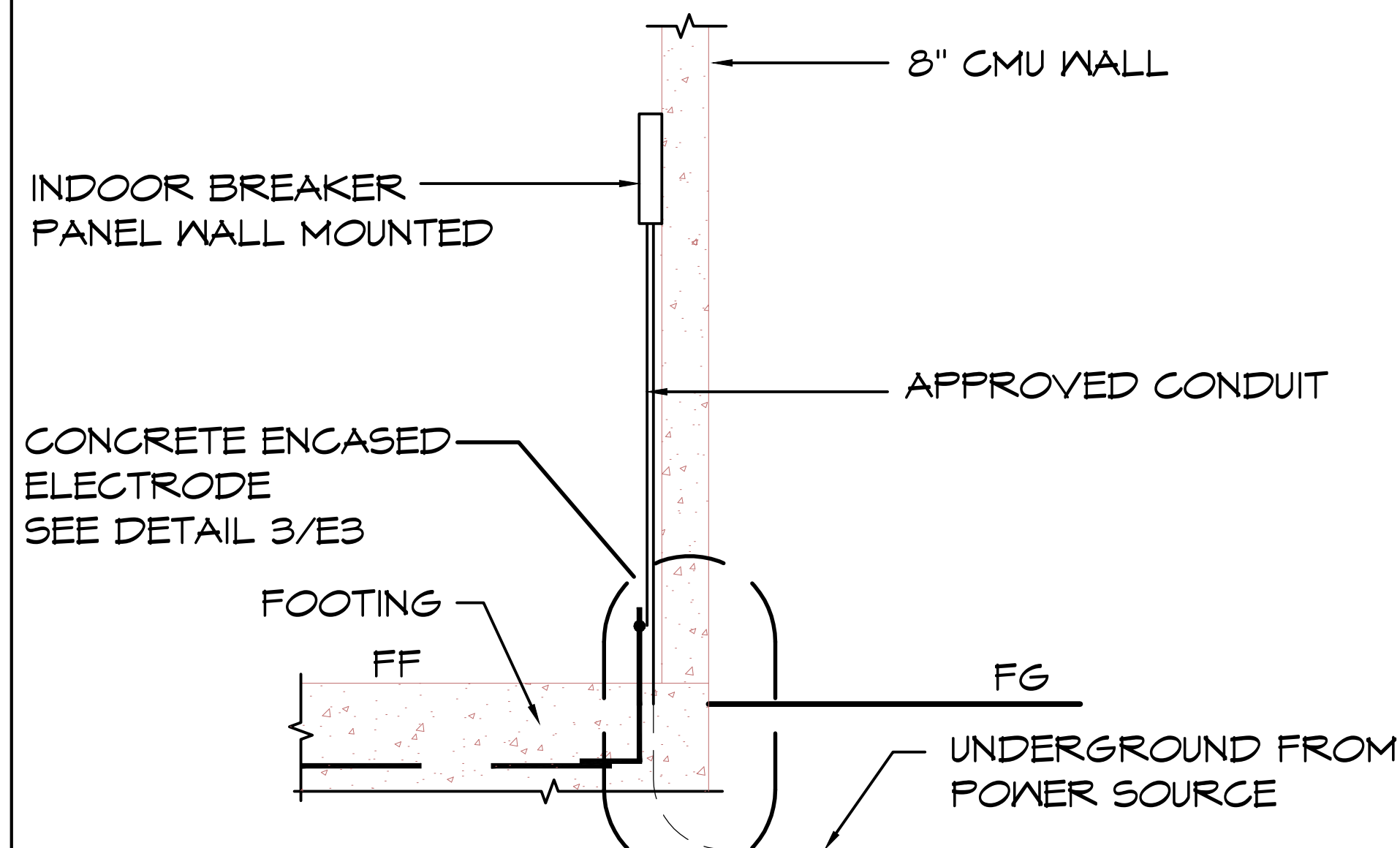
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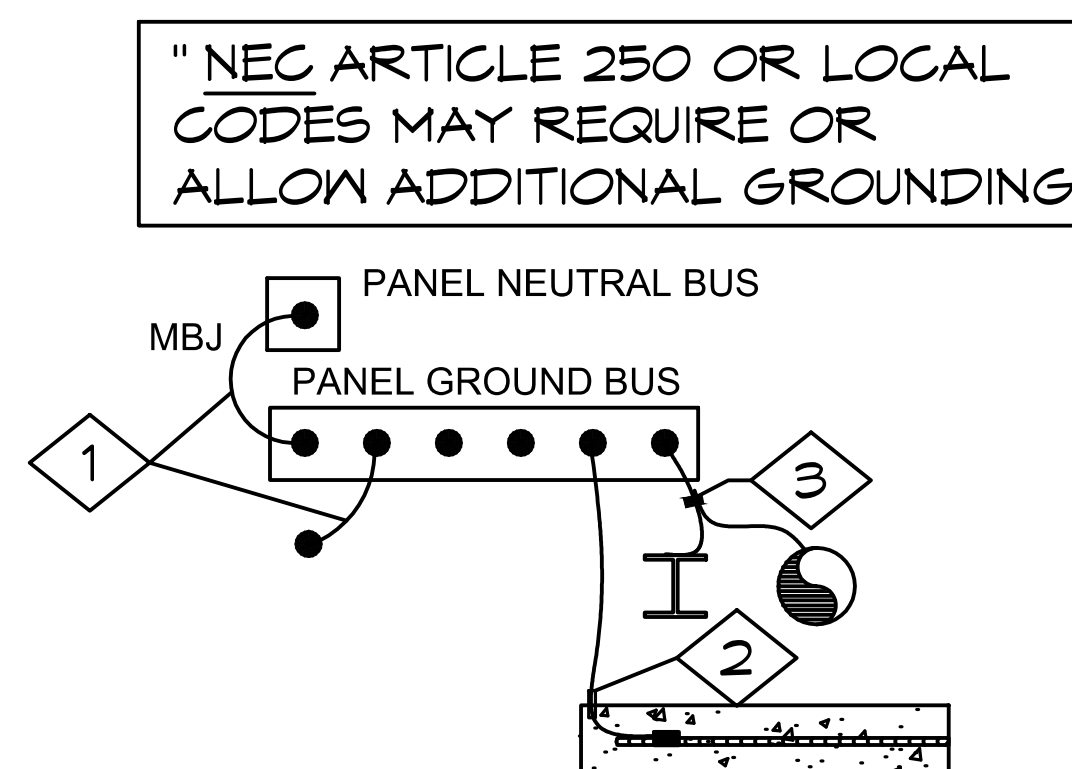
1 ONE-LINE DIAGRAM
SCALE: NONE



3 CONCRETE ENCASED SERVICE GROUND
SCALE: NONE



2 RISER DIAGRAM
SCALE: NONE



4 GROUNDING/BONDING DETAIL
SCALE: NONE

KEYED NOTES

- 1 #4 CU MAIN BONDING JUMPER AND EQUIPMENT BONDING JUMPER PER NEC 250.28(D), 250.102(C) AND TABLE 250.66. DO NOT BOND THE NEUTRAL TO THE GROUND BUS IF THIS IS NOT A SERVICE ENTRANCE
- 2 #4 CU TO CONCRETE ENCASED ELECTRODE PER NEC 250.52(A)(3), 250.66(B) AND 250.70
- 3 WHERE REQUIRED, BOND PIPING SYSTEMS AND EXPOSED STRUCTURAL STEEL PER NEC 250.104

PROJECT: **ARCOLA CREEK PARK RESTROOM**
MADISON TWP, OHIO
SHEET TITLE: **ELECTRICAL RISER DETAILS**

PROJECT #: **ACPO1**
DATE: **3/4/2025**

DRAWN BY: **ZW**

REV.	DATE:	BY:

REVISIONS:

E3

SHEET NO.

PART & MATERIAL LIST

WOOD MATERIAL LIST										
NO. REQ'D	DESCRIPTION	MARK	SIZE	LENGTH	NOM. LAMS	LUMBER	CAMBER	DETAIL ON SHEET	NOTES	LOAD <input checked="" type="checkbox"/>
6	BEAM	B-3OSP	5" WIDE	SEE DETAIL	2"	24F-V3	NONE	1		
12	COLUMN	C-1	6 3/4" x 6 7/8"	13'-0"	2"	24F-V5	NONE	1	1, 2	
8	FASCIA	F-1	2 x 6 NOM.	10'-0" UNT'D.	----	#1 S.Y.P.	NONE	----	3	
10	FASCIA	F-2	2 x 6 NOM.	8'-0" UNT'D.	----	#1 S.Y.P.	NONE	----	3	
12	NAILER	N-1	1 1/2" x 3 1/2"	8'-0" UNT'D.	----	#1 S.Y.P.	NONE	----	3, 4	
8	NAILER	N-2	1 1/2" x 3 1/2"	10'-0" UNT'D.	----	#1 S.Y.P.	NONE	----	3	

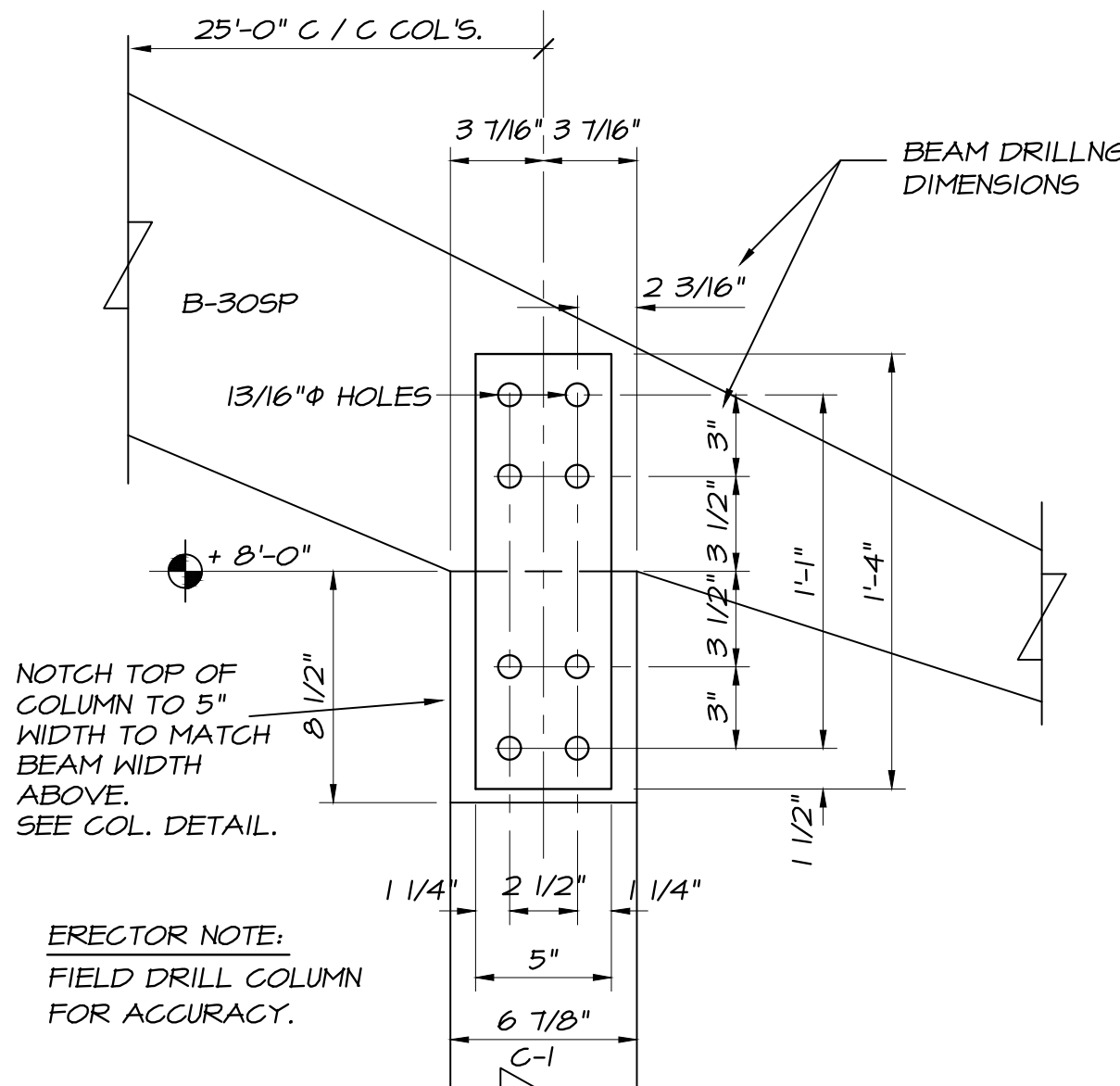
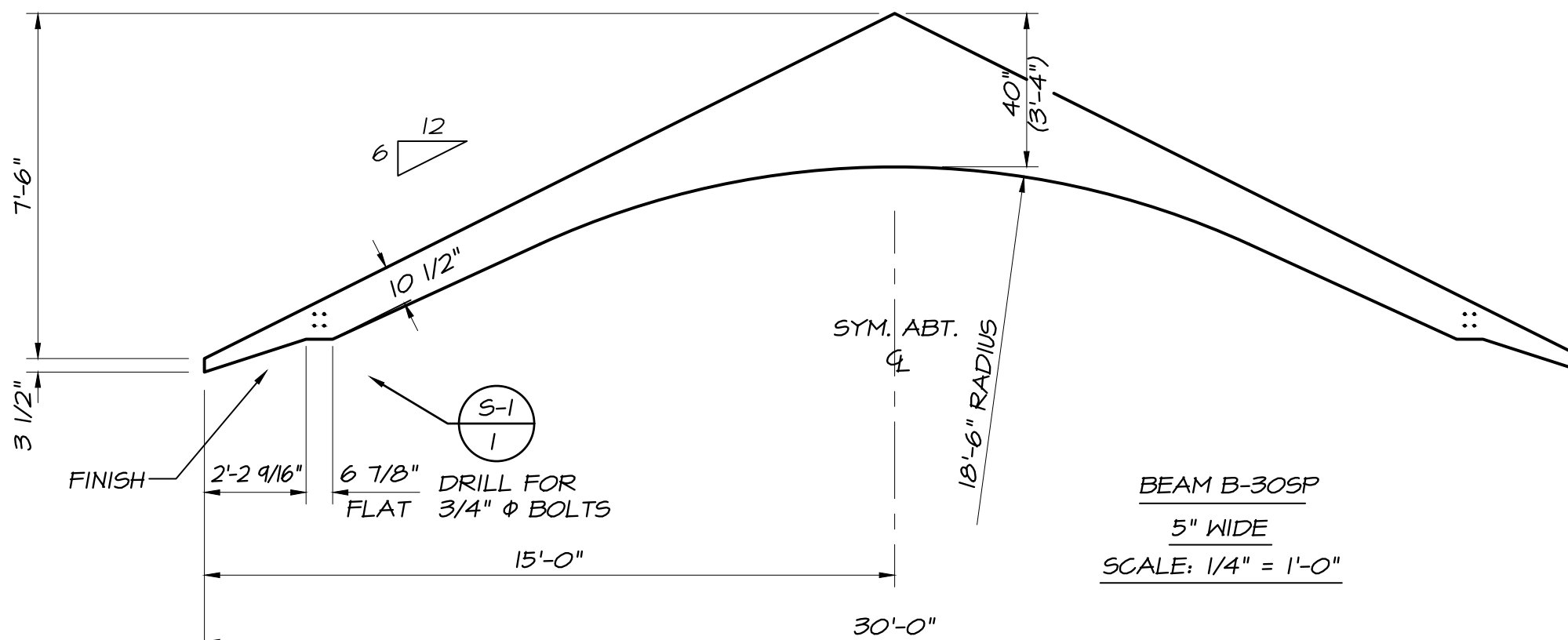
SHOP NOTES

#1 - FABRICATE WITH 0.6 PCF CCA PRESSURE TREATED LUMBER PER AITC 109, GROUND CONTACT.

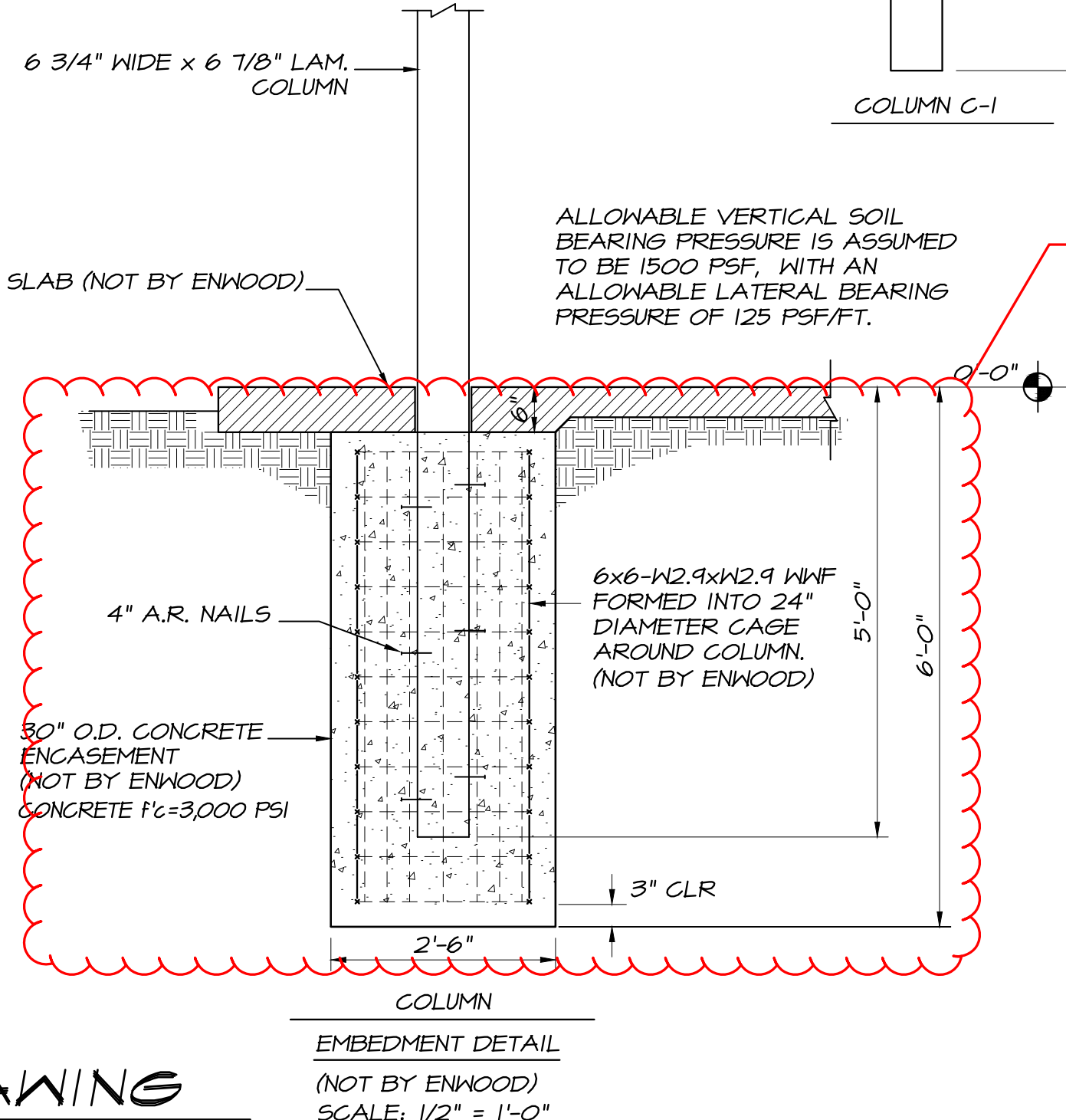
#2 - FINISH FOUR SIDES.

#3 - PRESSURE TREATED PER AITC 109, ABOVE GROUND USE. (UNT'D DENOTES UNTRIMMED. FIELD CUT TO FIT.)

#4 - FAB. WITH 3/4" EAVE CUT (SEE FASCIA DETAIL, THIS SHEET.)



12	CONN S-1 (1 1/2" SCALE)
2	MK-1 (PL 3/8" x 5" x 1'-4")
8	3/4" ϕ x 6 1/2" M. BOLT W/ NUT



APPROVAL DRAWING
NOT FOR CONSTRUCTION

HARDWARE SCHEDULE

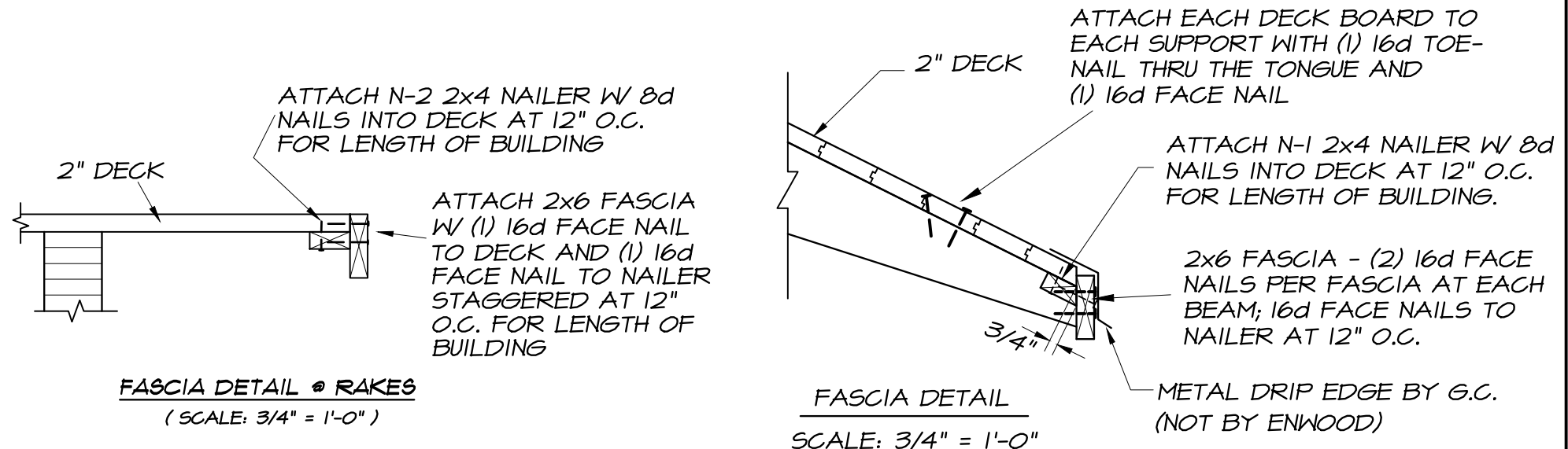
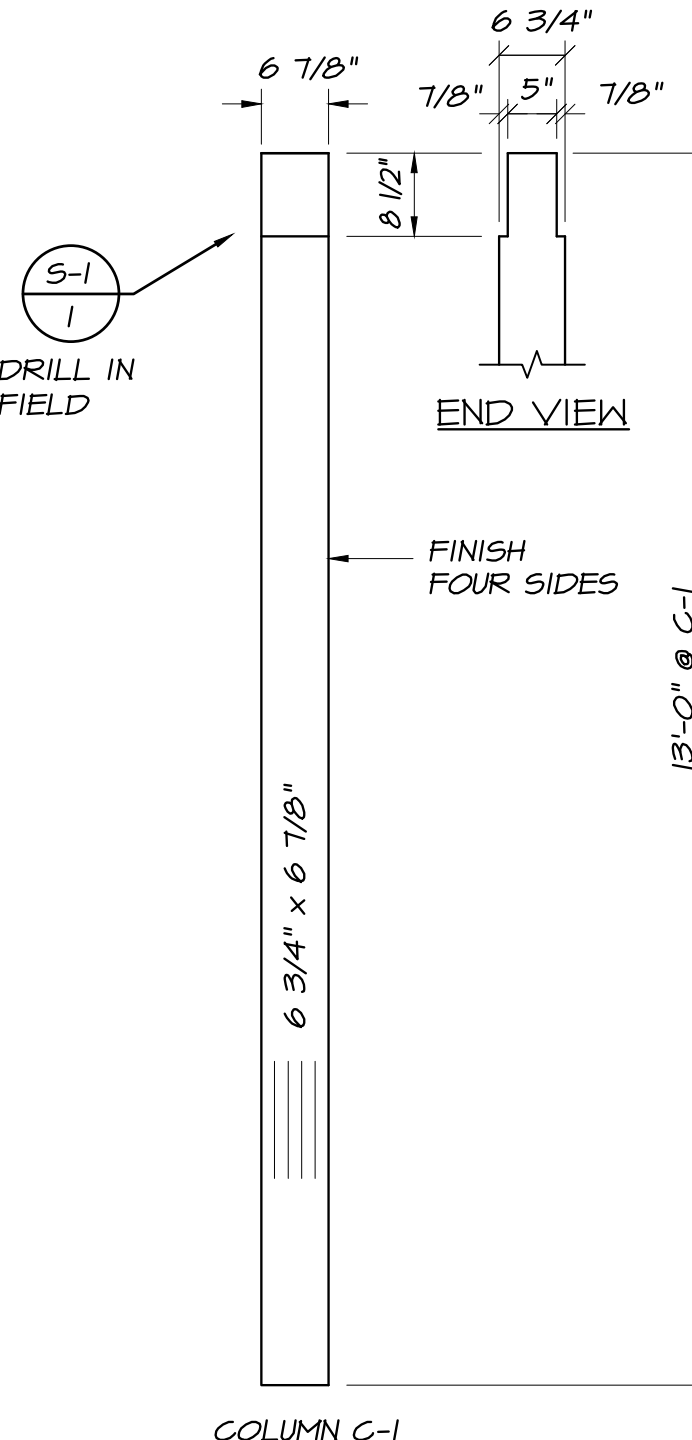
MARK	CONN.	NO.	DESCRIPTION	DETAIL ON SHEET	NOTES	LOAD ✓
MK-1	S-1	24	PL 3/8" x 5" x 1'-4"	I	A	
		96	3/4" ϕ x 6 1/2" BOLT W/ NUT		B	
		72	4" A.R. NAILS		C	

STEEL NOTES

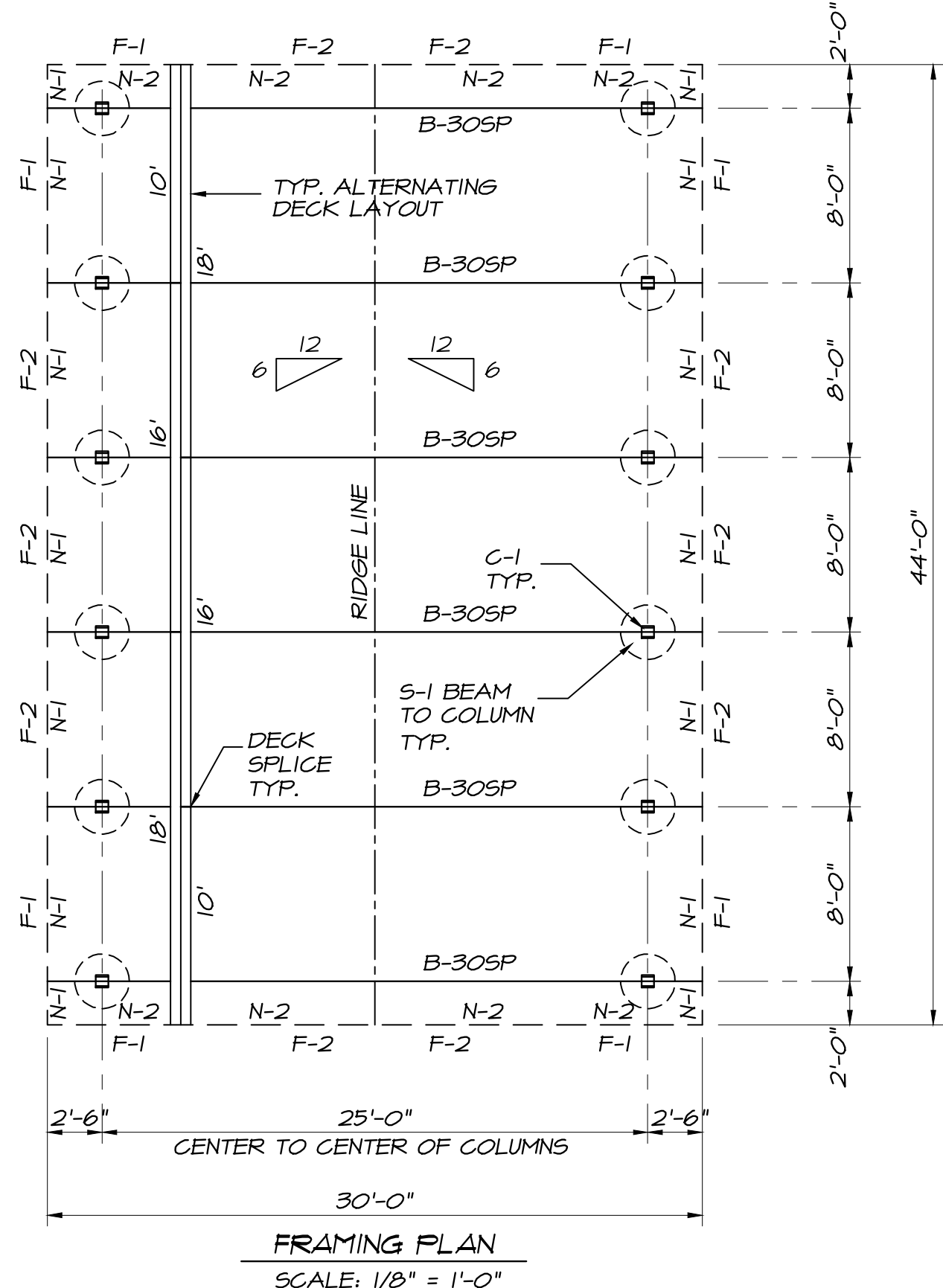
A) TO HAVE SHOP COAT PRIMER.

B) TO BE ELECTROSTATIC ZINC PLATED

C) TO BE HOT-DIP GALVANIZED.

ERECTION NOTES

1. ALL MEMBERS MUST BE PROPERLY BRACED UNTIL THE STRUCTURAL ROOF SYSTEM HAS BEEN COMPLETED.
2. NAIL (6) 4" A.R. NAILS 2" MINIMUM INTO EMBEDDED ENDS OF COLUMNS TYPICAL



"IN THE EVENT OF ERROR, DEFECTIVE MATERIAL, AND/OR WORKMANSHIP, PLEASE NOTIFY THE NEAREST ENWOOD SALES OFFICE IMMEDIATELY. ENWOOD RESERVES THE RIGHT TO INVESTIGATE AND CORRECT ALL ALLEGED ERRORS AND DEFECTS"

CUSTOM 30' x 44' RALEIGH MODEL (6/12 ROOF SLOPE) LA-14988A

A.I.T.C. CERTIFICATE & STAMPS

SEE ATTACHED BUILDING CODE
STRUCTURAL SHEET FOR ADDITIONAL INFO

WEIGHT OF HEAVIEST MEMBER IS 700 LBS. (B-30SP)

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Material: Stress Graded, Kiln Dried
Southern Yellow Pine Lumber
Comb. & Stress Grades
Per A.I.T.C. A190.1

Adhesive: Waterproof
per AITC A190.1

Finish							
Premium							
Architectural							
Industrial							
Rustique							
Seal							
Stain							
Varnish							
Except As Noted							

Protection			
Indiv. Wrap			
Load Wrap			
Bundle Wrap			

Design Data	
RDL = 12 PSF	(OBC 2024)
RLL = 30 PSF	
GSL = 30 PSF	
WL: V = 110 MPH / ASCE 7-16 (EXP. D, OPEN BLDG)	



Clearance Data - Materials		
Height	Length	Width

Drawn	PMK	2-15-25
Checked	PMK	2-21-25

1

Our Job No.
25-PS-5113-A

Approved for
Fabrication

ARCOLA CREEK PARK	
941 DOCK RD, MADISON OH 44057	
Architect	
Contractor	

Sheet
1
of
ONE

PART & MATERIAL LIST

WOOD MATERIAL LIST										
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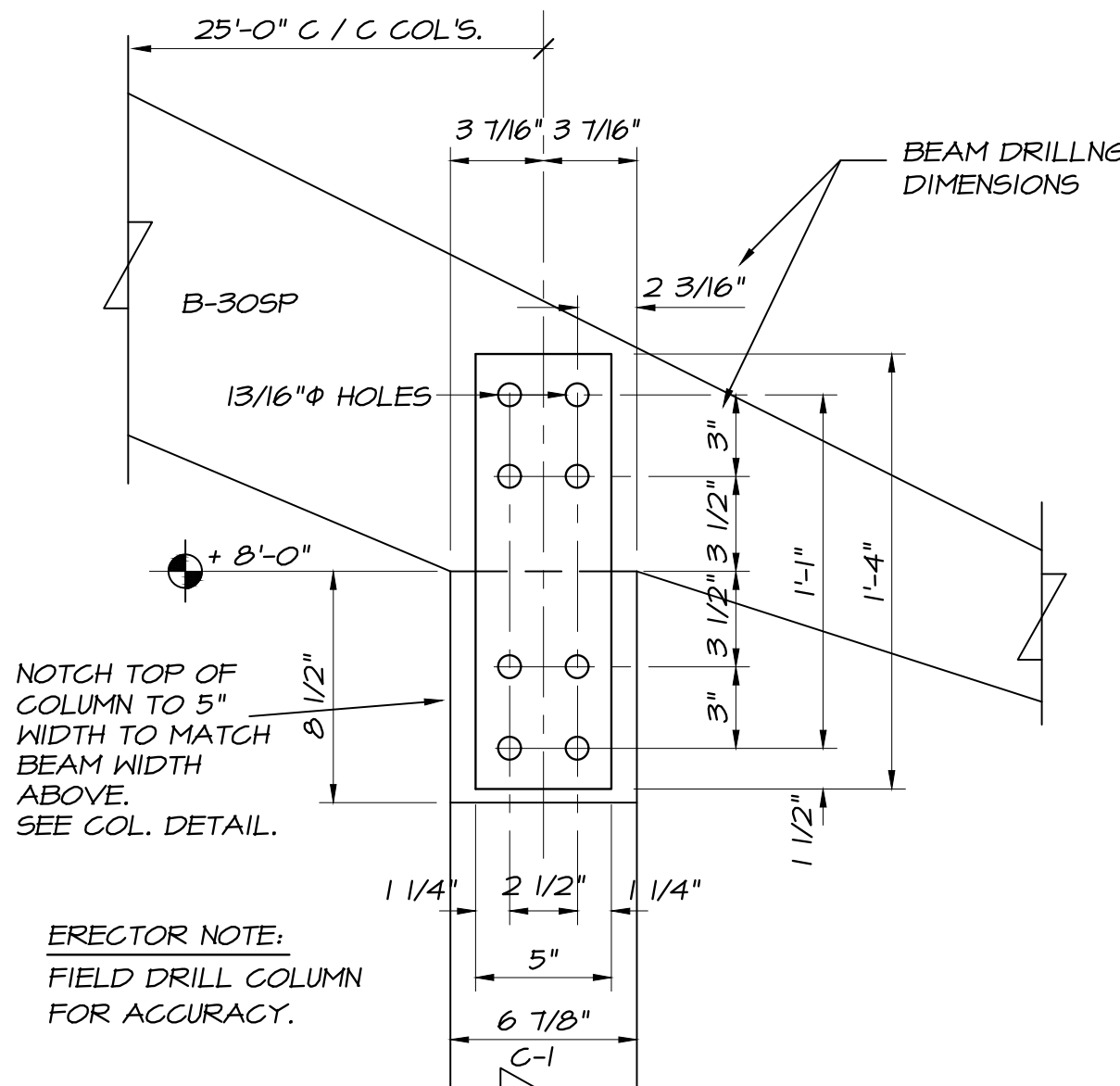
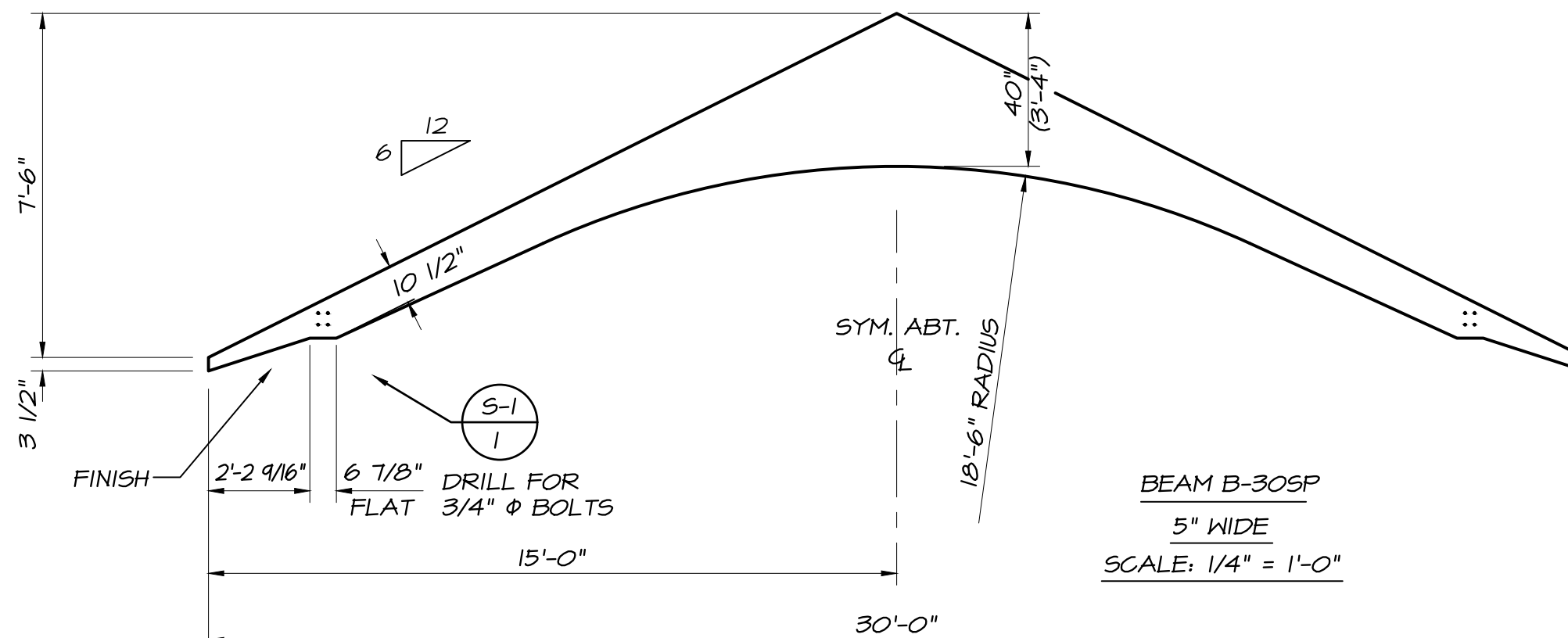
SHOP NOTES

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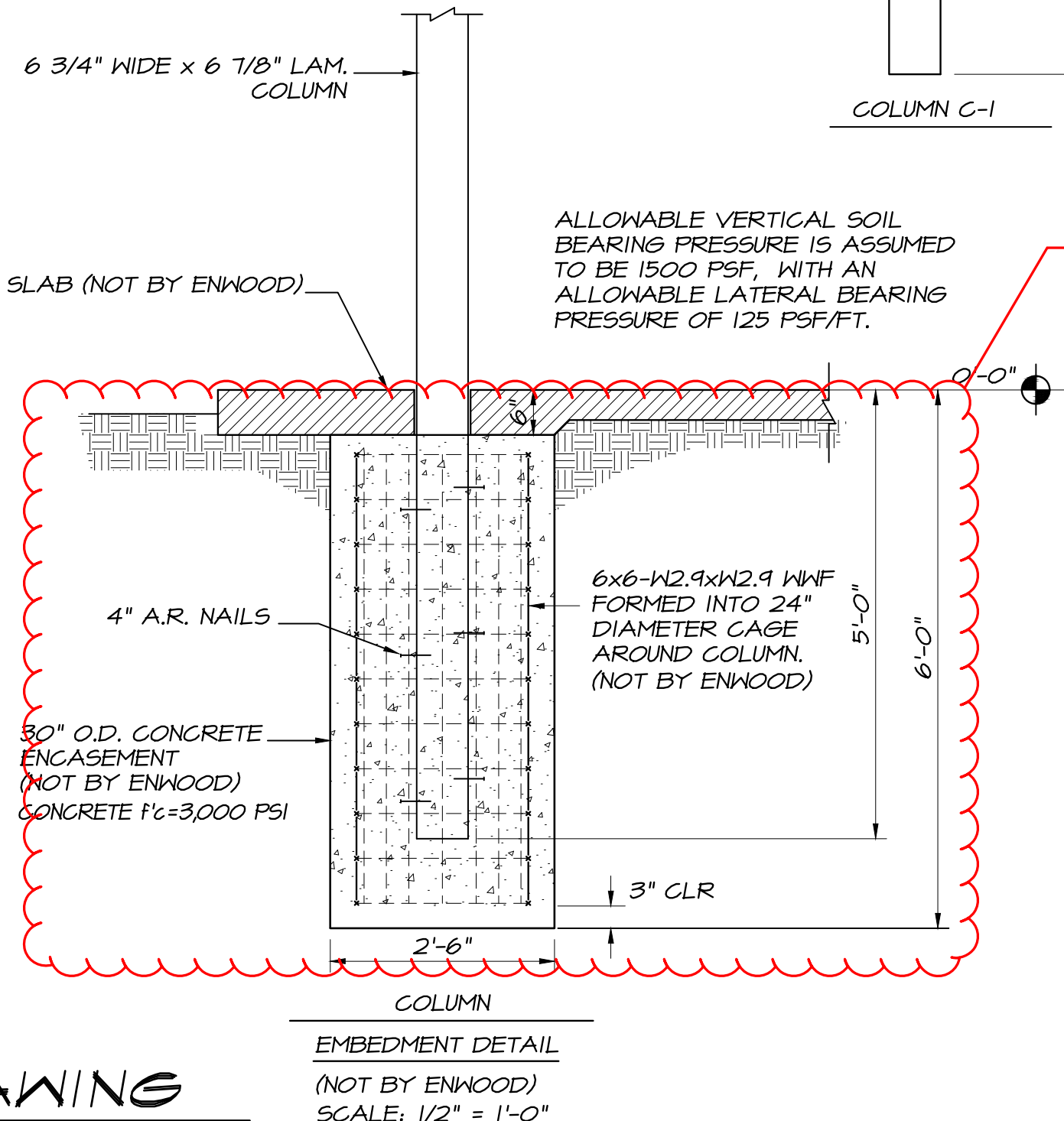
#2 - FINISH FOUR SIDES.

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12	CONN S-1 (1 1/2" SCALE)
2	MK-1 (PL 3/8" x 5" x 1'-4")
8	3/4" ϕ x 6 1/2" M. BOLT W/ NUT



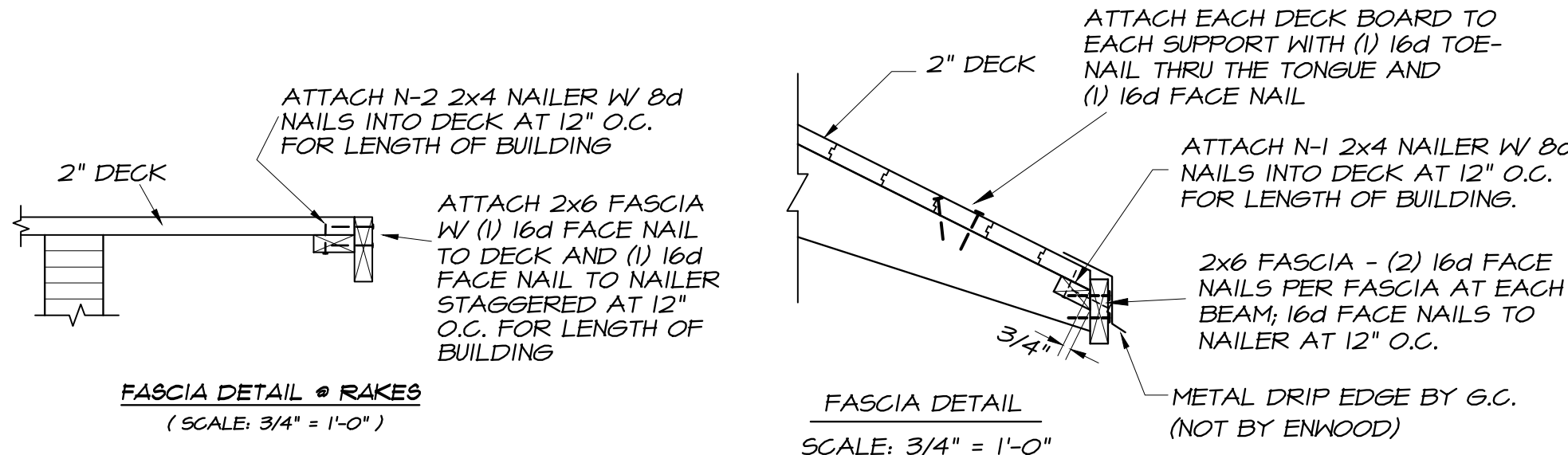
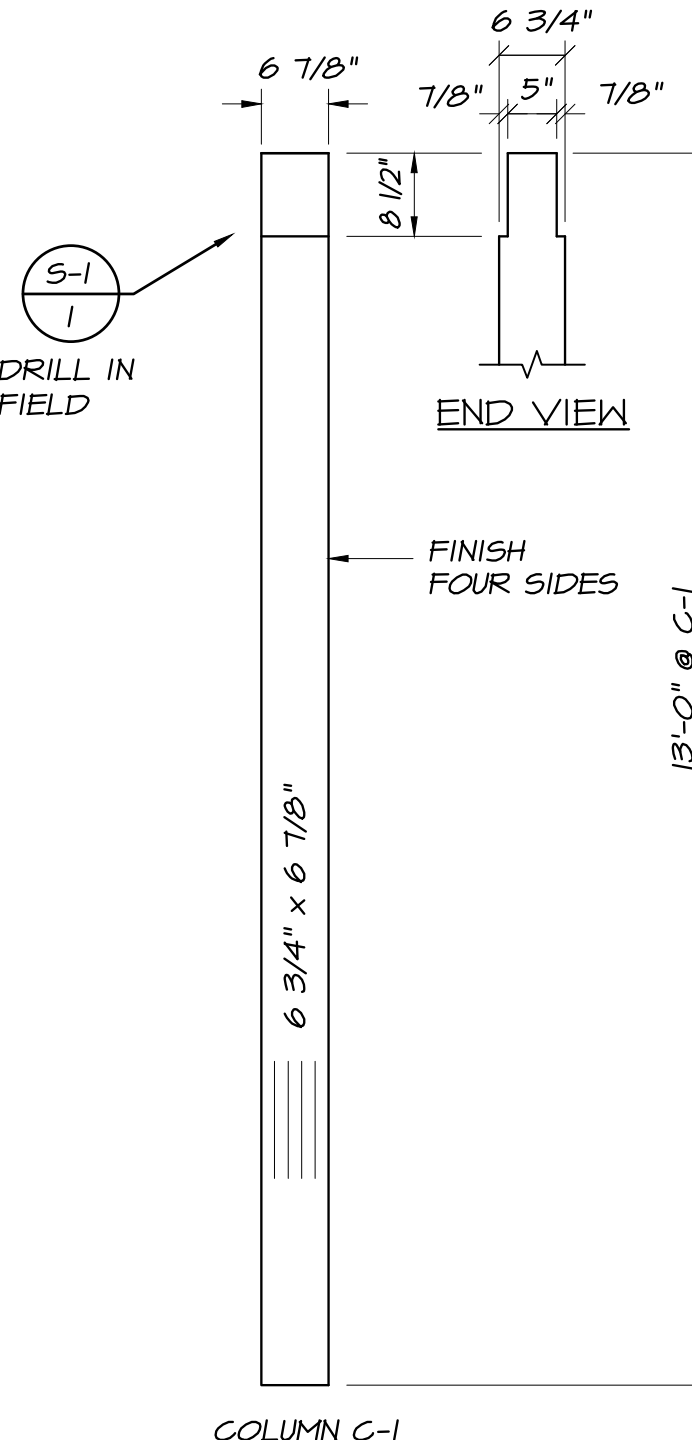
APPROVAL DRAWING
NOT FOR CONSTRUCTION

HARDWARE SCHEDULE

MARK	CONN.	NO.	DESCRIPTION	DETAIL ON SHEET	NOTES	LOAD <input checked="" type="checkbox"/>
MK-1	S-1	24	PL 3/8" x 5" x 1'-4"	I	A	
		46	3/4" ϕ x 6 1/2" BOLT W/ NUT		B	
		72	4" A.R. NAILS		C	

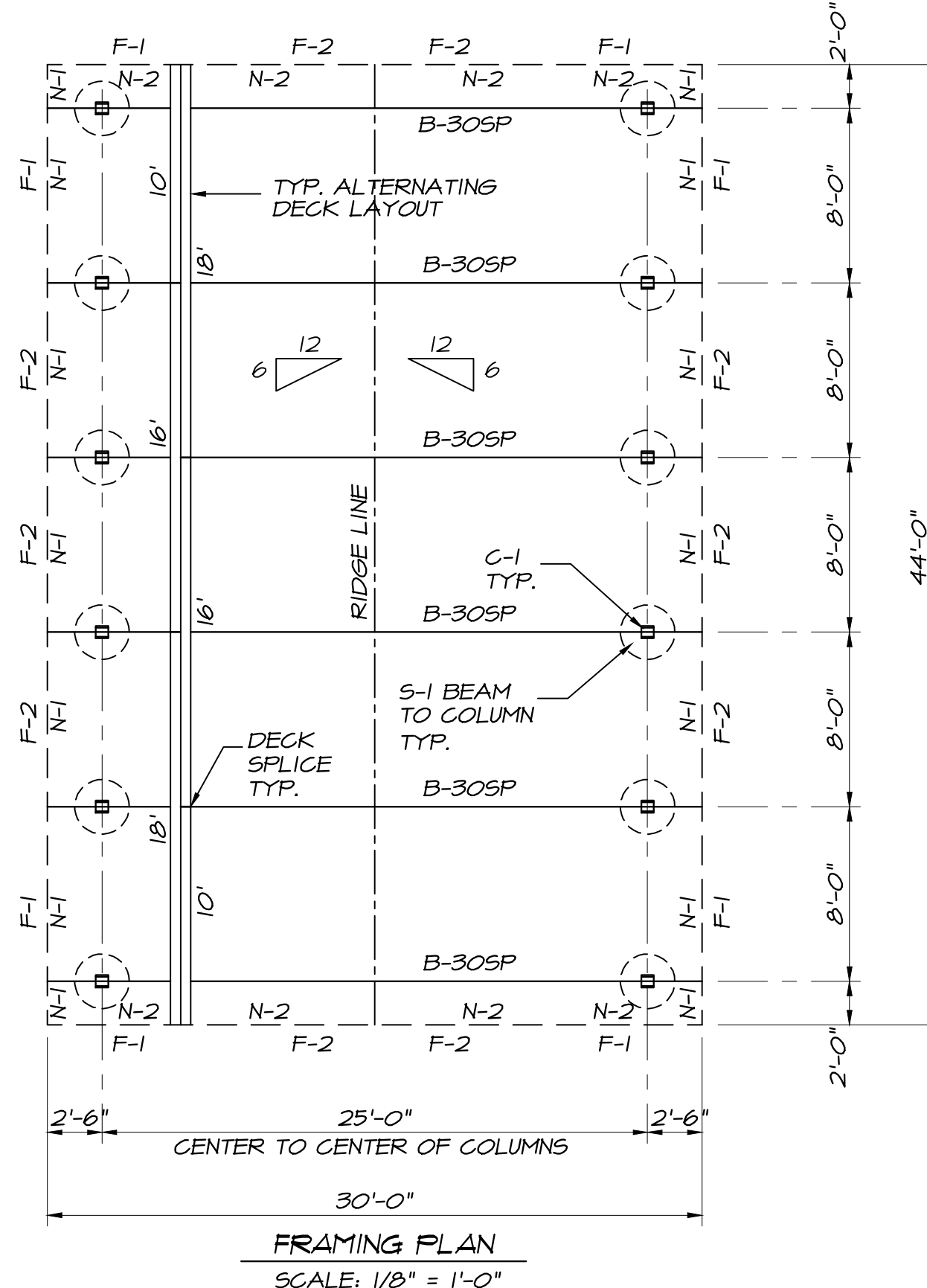
STEEL NOTES

- A) TO HAVE SHOP COAT PRIMER.
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- C) TO BE HOT-DIP GALVANIZED.



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Southern Yellow Pine Lumber
Comb. & Stress Grades
Per A.I.T.C. A190.1

Adhesive: Waterproof
per AITC A190.1

Finish							
Premium							
Architectural							
Industrial							
Rustique							
Seal							
Stain							
Varnish							
Except As Noted							

Protection			
Indiv. Wrap			
Load Wrap			
Bundle Wrap			

Design Data	
RDL = 12 PSF	(OBC 2024)
RLL = 30 PSF	
GSL = 30 PSF	
WL: V = 110 MPH / ASCE 7-16 (EXP. D, OPEN BLDG)	



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Height	Length	Width

Drawn PMK 2-15-25	Checked PMK 2-21-25
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Revisions

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ARCOLA CREEK PARK	
941 DOCK RD, MADISON OH 44057	
Architect	
Contractor	

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