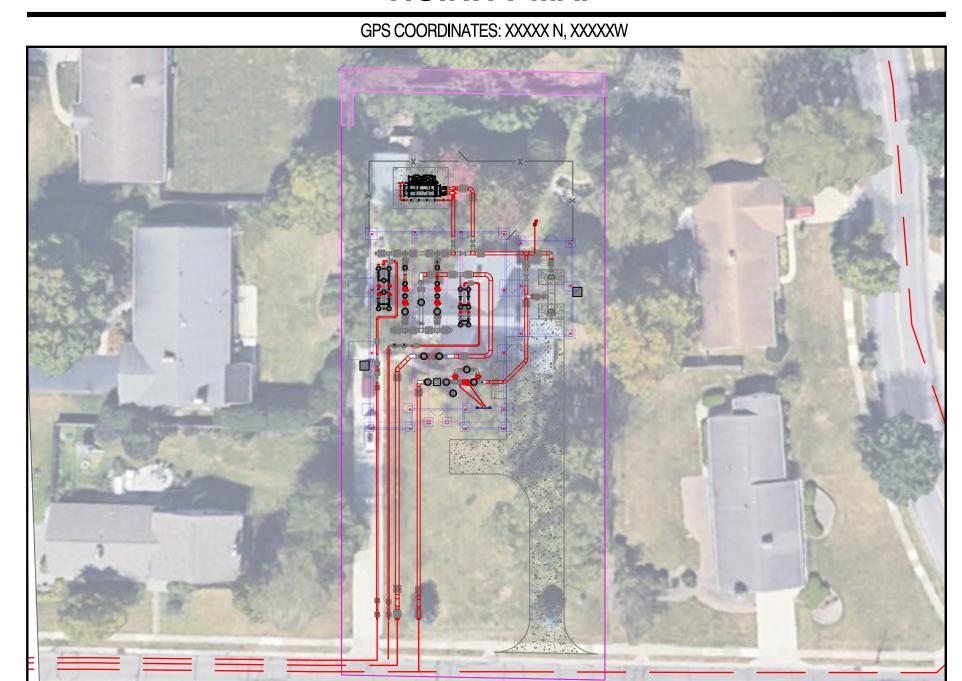


# INSTALLATION ORDER NUMBER 24-0136951-00

# PROJECT ID 21-78790 RIDGEVIEW STATION

**JOB TYPE: PLANT REGULATORS - NEW (573)** 

### **VICINITY MAP**



# PROJECT DESCRIPTION

NEW INSTALL OF RIDGEVIEW STATION

	CHEET INDEV		
ALL IA ADED	SHEET INDEX	DEVICION	DEVICION DATE
NUMBER	PROJECT ELEMENT	REVISION	REVISION DATE
0	COVER SHEET	0	6/16/2025
1	GENERAL NOTES	0	6/16/2025
2	ISOMETRIC	0	6/16/2025
3	SITE OVERVIEW	0	6/16/2025
4	PRESSURE TEST DETAILS	0	6/16/2025
5	GRAVEL LAYOUT	0	6/16/2025
6	FENCE LAYOUT	0	6/16/2025
7	FENCE DETAILS 1	0	6/16/2025
8	FENCE DETAILS 2	0	6/16/2025
9	CONCRETE LAYOUT	0	6/16/2025
10	CONCRETE DIMENSIONS	0	6/16/2025
11	CONCRETE CALLOUTS	0	6/16/2025
12	CONCRETE DETAILS	0	6/16/2025
13	ROV DETAILS	0	6/16/2025
14	TRANSMITTER PIPING DETAILS	0	6/16/2025
15	FILTER DETAILS	0	6/16/2025
16	GENERATOR DETAILS	0	6/16/2025
17	HEATER BLOCK DETAILS	0	6/16/2025
18	HEATER SUPPLY UNIT	0	6/16/2025
19	232 REGULATION	0	6/16/2025
20	232 OUTLET	0	6/16/2025
21	100 REGULATION	0	6/16/2025
22	100 OUTLET	0	6/16/2025
23	077 REGULATION	0	6/16/2025
24	077 OUTLET	0	6/16/2025
25	CORROSION LAYOUT	0	6/16/2025
26	ELECTICAL CLASSIFICATION	0	6/16/2025
27	I&C OVERVIEW	0	6/16/2025
28	вом	0	6/16/2025
29	BOM 2	0	6/16/2025
APPENDIX A	ILLUMINATION PLAN	0	6/16/2025
APPENDIX B	PLMB-0002A	0	6/16/2025
APPENDIX C	SITE CIVIL	0	6/16/2025
APPENDIX D	SITE STRUCTURAL	0	6/16/2025
APPENDIX E	BUILDING ARCHITECTURE	0	6/16/2025
APPENDIX F	BUILDING STRUCTURAL STEEL	0	6/16/2025
APPENDIX G	BUILDING FOUNDATION	0	6/16/2025
ALLENDIA	DOLLDING LOCKDATION		1 0, 10, 2023

## PROJECT INFORMATION

FIELD ENGINEER / PROJECT MANAGER: KAITLIN DYGERT | GREG HARPER

CONSTRUCTION FLL:

MITS: CITY PERMIT

STATE PERMIT ENVIRONMENTAL PERMIT

TCC/LOA: 1324 | COLUMBUS NORTHWEST
COUNTY: COLUMBUS / FRANKLIN

TAX DISTRICT/TOWNSHIP ID: 0250200 | UPPER ARLINGTON

MAP/GRID NUMBER: 7324428E 24 HR. EMERGENCY LINE: 1-800-544-5606

	VALVES PLANNED FOR ABANDONMENT							
				OONED LVE		DISPOS	SITION	
NO.	FACILITY ID	LOCATION DESCRIPTION	INSEF		VALVE REMOVED (NO BOX: ABOVE GROUND	VALVE, VALVE BOX &	VALVE REMAINS IN PLACE; BOX & LID	VALVE REMAINS IN PLACE; BOX FILLED W
			YES* NO	VALVE)	LID REMOVED	REMOVED	CONCRETE	
#								
#								
#								
#								
#	#							
*-IF'	"YES," Al	PPROVAL AND REASON ARE F	REQUIRE	D AND	SHALL BE DO	CUMENTED.		
NOTE	:: IF VAL	VE COULD NOT BE LOCATED,	MAKE A	APPLICA	BLE COMMEN	IT IN ABOVE TA	ABLE.	

### PROJECT SUMMARY TABLE

PROPOSED INSTALLATION			PF	ROPO	OSED ABANDON	NMENT		
LENGTH (FT)	SIZE	(IN)	TYPE		LENGTH (F	T)	SIZE (IN)	TYPE
0'	0"				0'		0"	
0'	TOTAL	INSTALLATION (FEET)			0'		TOTAL ABAND	ONMENT (FEET)
		Pl	ROPOSE	D G	AS SERV	/ICE	S	
REPLACEMENTS TI		IE OVERS	ТО	TAL SERVICES	METER OUTS			
ESTIMATED GAS S	ERVICES							







## **PROPOSED**

		REVISIONS	
1			
0	9/29/23	PRELIMINARY	
REV.#	DATE	DES	CRIPTION
DEGIGNED F			00/44/04 000 500 044

· · · · · · · · · · · · · · · · · · ·	DATE DESCRIPTION				
DESIGNED BY	CRDM	09/11/24	330-596-0111		
DRAWN BY	CRDM	09/11/24	330-596-0111		
CHECKED BY	CAMPOS	XX/XX/XX			
AS-BUILT BY					
	NAME	DATE	PHONE #		

SITE NAME:

INST# 24-0136951-00 ABAN# ----PROJECT ID# 21-78790

> RIDGEVIEW STATION COLUMBUS / FRANKLIN, OI

DRAWING TITLE:

**COVER SHEET** 

DRAWING NO:

\_\_\_\_

### **General Notes**

- Deviation from NiSource CAD Standards is at discretion of reviewing Professional Engineer.
- Refer to project documentation for the associated Environmental Compliance Plan (ECP) and any project-specific documentation.
- The proposed gas facility locations shown are approximate and are subject to change.
- Property lines, structures, street lines, etc. were compiled using the NiSource GIS and are to be considered approximate and not to
- Existing utilities, where shown, have been compiled from above ground evidence only and are to be considered approximate. NiSource does not guarantee the location of the underground utilities shown or that all existing utilities and/or subsurface structures are shown.
- 6. Individual service line designs for services smaller than 3 inches in diameter are not provided by Engineering. These services shall be installed using the standard design criteria and material specified in the NiSource standards. Services 3 inches and larger in diameter shall be designed, reviewed, and represented on a separate plan set as necessary.
- 7. This project will adhere to all applicable federal, state or local permitting requirements for abandonment and installation of natural gas pipelines. All Federal, State, and Local codes and standards will be adhered including, but not limited to, the following:

### Code of Federal Regulations (CFR)

49 CFR 192 Pipeline Safety Regulations

29 CFR 1910 Occupational Safety and Health Administration (OSHA)

### American Society of Mechanical Engineers (ASME)

ASME B31.8 Gas Transmission and Distribution Piping Systems

- All NiSource design codes and standards will be adhered to as applicable.
- Prior to beginning any excavation on site, the person responsible for earth moving shall notify utility owners of their intent to excavate and to have the exact locations of the utility lines marked by contacting the one call center in their state subject to any applicable state advance notification requirements.
- 10. Proposed or completed gas facility installation location references may be indicated by a combination of the following codes:

CLP - CENTER OF PAVEMENT F - FRONT D - DRIVEWAY EDGE BK - BACK CLR - CENTER OF RIGHT-OF-WAY **EP - EDGE OF PAVEMENT** CEL - CENTER OF EASTBOUND LANE ES - EDGE OF SIDEWALK - RIGHT CWL - CENTER OF WESTBOUND LANE PL - PROPERTY LINE **B-BUILDING EDGE** CNL - CENTER OF NORTHBOUND LANE CU - CURB CSL - CENTER OF SOUTHBOUND LANE

11. For transmission projects, ensure compliance of required TVC QA/QC with Gas Standard 1660.040

### **Drawing Revision Conditions:**

- 1. If, during the course of project construction, anticipated changes to project plans result in complex project criteria being met as defined by NiSource Gas Standard 2810.050 "Stakeholder Reviews of Design Capital Projects," the changes shall not be implemented until revised project documentation is reviewed by the Project Engineer and approved by a Professional Engineer as necessary.
- 2. Any additional gas pressure containing material not listed on the project Bill of Materials must be reviewed by the Project Engineer and reviewing Professional Engineer prior to use.
- 3. Any significant changes to proposed primary pipeline installation methods and location must be reviewed by the Project Engineer and reviewing Professional Engineer.
- 4. Any significant changes to proposed project scope must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes to project scope may include changes to proposed design pressure, change of proposed pipe size and material affecting system hydraulics, and the addition or removal of significant amounts of pipeline installation or abandonment.
- 5. Any significant changes to proposed tie-ins must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes may include the following: addition or removal of a tie-in, change in proposed tie-in material, change in proposed tie-in method, and change in tie-in location if system hydraulics may be affected.
- During the course of project construction or procurement, the availability of pipe seam type may change due to procurement issues. Any pipe seam type changes between seamless (SMLS) and electric-weld resistance (ERW)) do not require PE Field Memo Change due to both seam types having the same design factor.

### **Environmental Notes**

- All NiSource construction activities must be completed in accordance with the Environmental Construction Standards (HSE 4440.020) and the project Environmental Compliance Plan (ECP). Said ECP shall be provided by others.
- The project ECP and any site-specific erosion control drawings, must be provided to the contractor with the project drawings for review and planning prior to the start of construction activities. This includes any tree clearing activities required prior to the start of facility construction activities.
- The project ECP and any associated drawings must be reviewed with construction, the contractor, and an environmental representative prior to the start of construction activities.
- These documents must remain on site for the duration of the construction project, and any project scope changes, with the potential to impact the requirements of the ECP or environmental drawings, must be coordinated with an environmental representative prior to completion.

Gas Facility Symbology

 $\otimes$ x"GV

⊗x"PV

○ x"HVTT

○x"SST

Gas Valve

Critical Gas Valve

High Volume Tapping Tee

(Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)

Pressure Control Fitting - ShortStopp Tee

# **MSource**°





### DRAWING LEGEND

Gas Main Material/Pressure Label References MATERIAL CODES Coated Steel Gas Main Weld Treated Gas Main Cast Iron Gas Main BS\* Bare Steel Gas Main Wrought Iron Gas Main High Density Polyethylene Gas Main PM\* PRESSURE CODES Low Pressure Intermediate Pressure Medium Pressure \*HP High Pressure MISCELLANEO Me Gas Main \*-SER Service \*-R Transmission Class Gas Main Installation Method Label References

Attached BH Bridge Hanger **Building Hanger BLGH** DB **Directional Bore** IS Inserted OC Open Cut PB Pneumatic Bore Plowed **Roof Top** RT Existing Proposed Weld Location

Gas Main Tie-in Location Gas Main Abandonment Location

Pressure Control Fitting - Spherical Tee ○ x"SPH Pressure Control Fitting - Mueller Bottom-out ○ x"MF-BO Pressure Control Fitting - Mueller Side-out ○ x"MF-SO ○ x"MF-FT Pressure Control Fitting - Mueller Flange Tee Pressure Control Fitting - ShortStopp  $\square x"SS$ Pressure Control Fitting - Mueller Stopper ¤x"MF ×x"x x" POLYTAP Polytapp Side Saddle Fitting **Transition** End Cap Riser Reducer **Electronic Marker** Flush-mounted Tracer Wire Station Post Pipeline Marker with Tracer Wire Gas Main Marker without Tracer Wire Test Well Regulator Station Single Customer Regulator Meter with Regulator Test Point (Station) Gas Service Tie-over Gas Service Replacement Meter Move Out Swing Tie Symbology Telephone Manhole Drain Manhole Electric Manhole Catch Basis Sewer Manhole Fire Hydrant Utility Pole **Property Marker** Telephone Pedestal

> **Television Pedestal** Unknown Manhole

Electric Pedestal

Water Box

Water Gate

Iron Pin **Light Pole** 

# **PROPOSED**

**REVISIONS** ------ |---\_\_\_ \_\_ --- |---9/29/23 PRELIMINARY REV. # DATE DESCRIPTION

		PHONE #
CAMPOS	XX/XX/XX	
CRDM	09/11/24	330-596-0111
CRDM	09/11/24	330-596-0111
	CRDM	CRDM 09/11/24

SITE NAME:

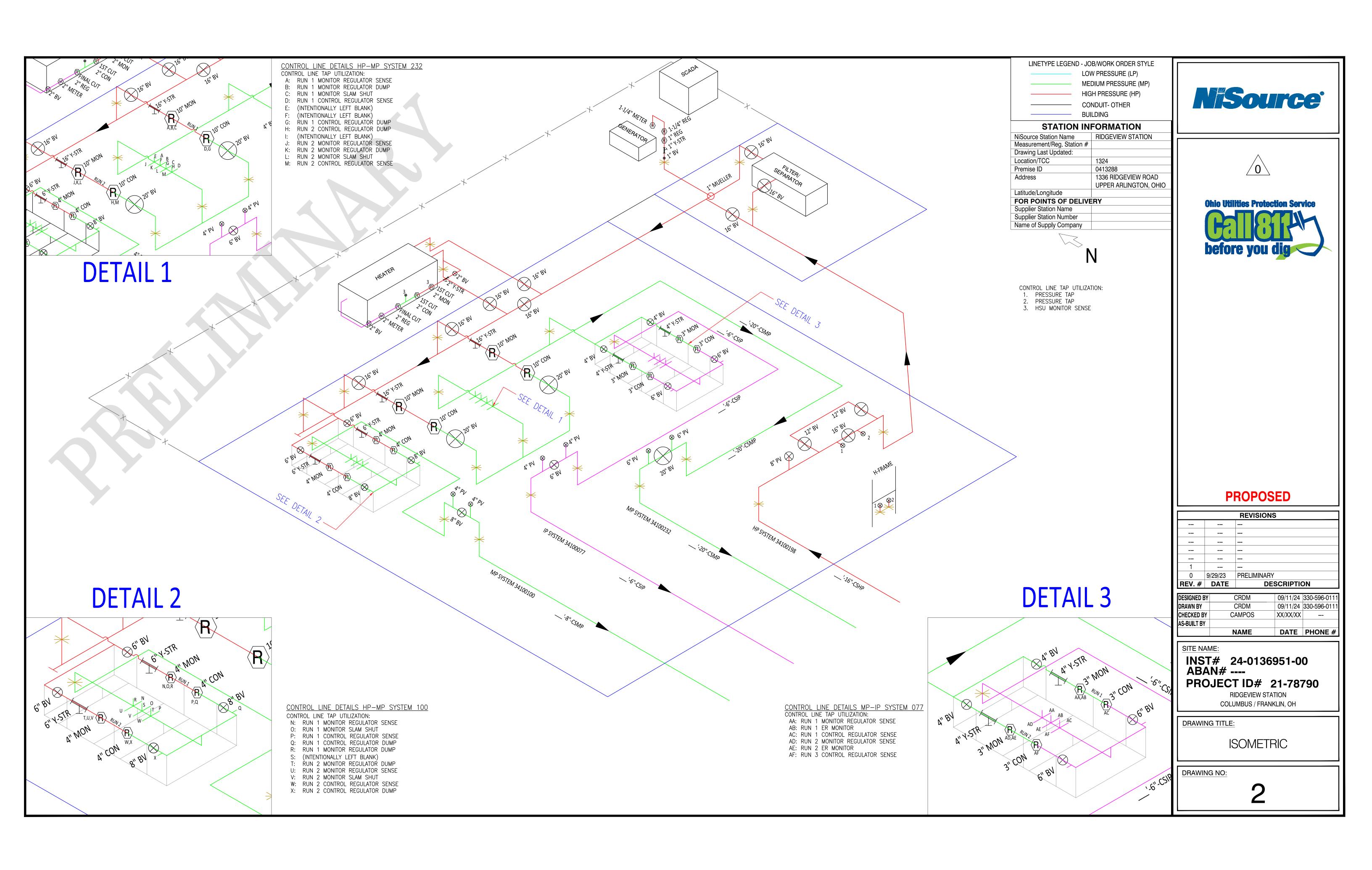
INST# 24-0136951-00 **ABAN#** ----PROJECT ID# 21-78790

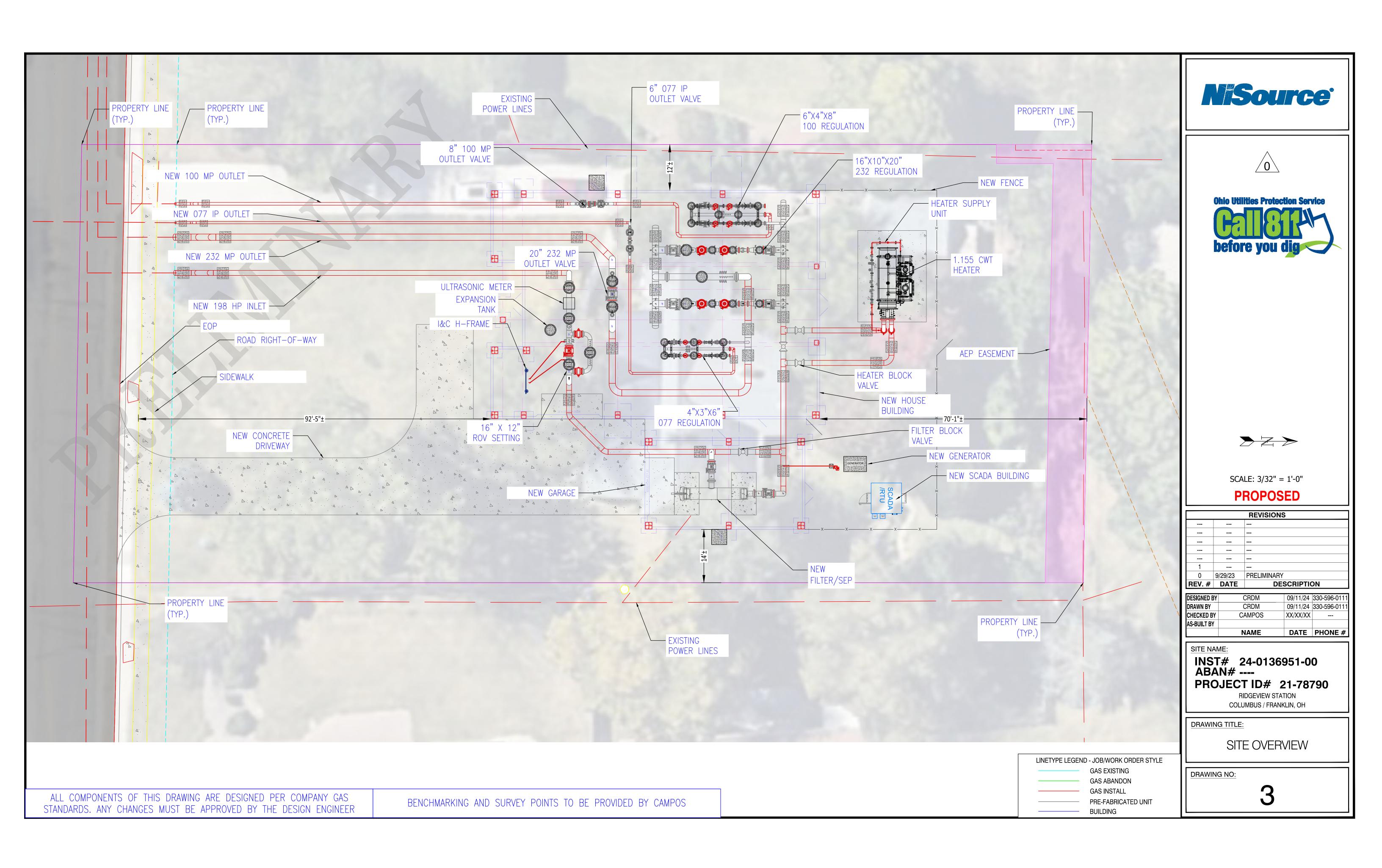
> **RIDGEVIEW STATION** COLUMBUS / FRANKLIN, OH

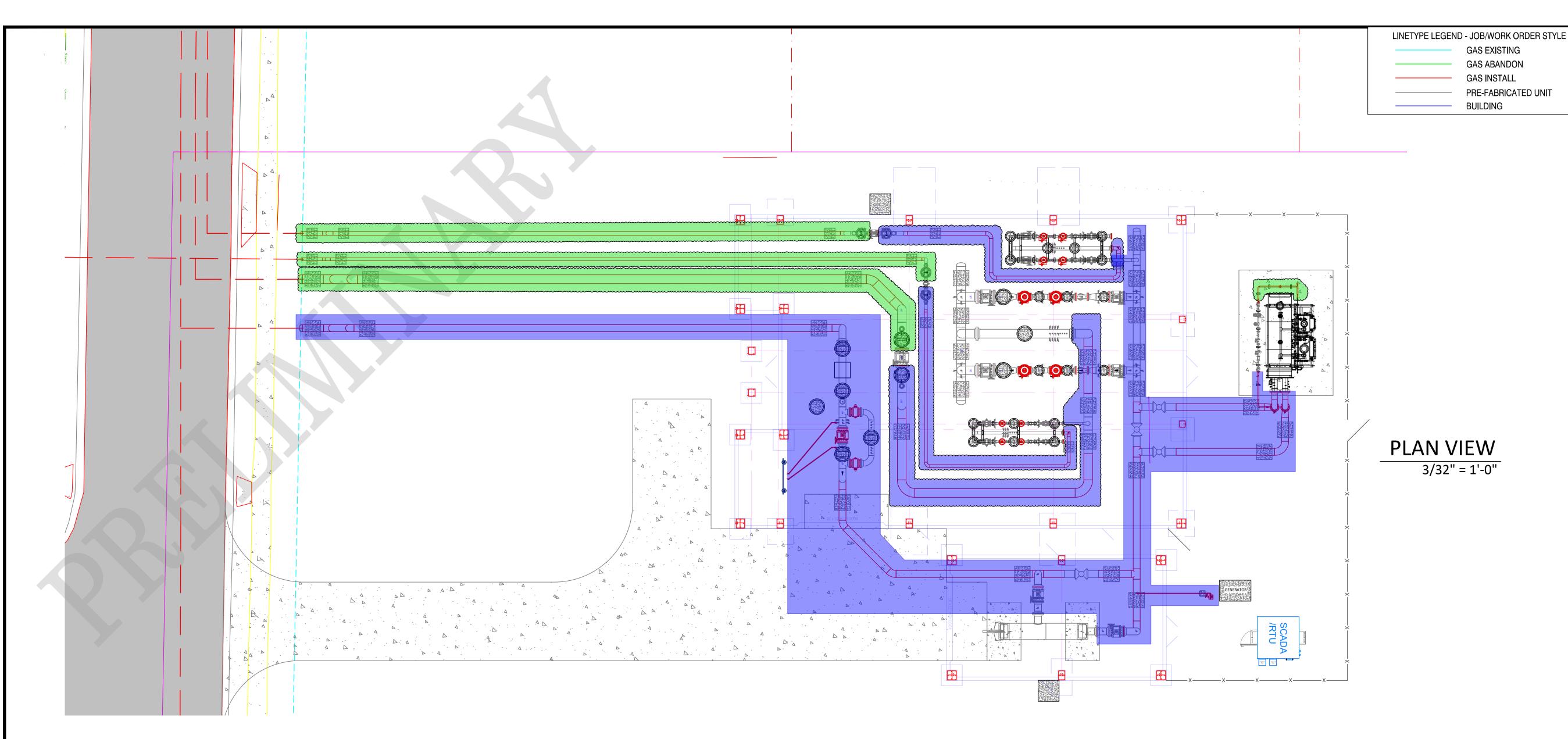
DRAWING TITLE:

**GENERAL NOTES** 

**DRAWING NO:** 







### **DESIGN NOTES:**

- 1. DESIGN ENGINEERING IS NOT RESPONSIBLE FOR PRESSURE TEST DESIGN, OTHER THAN TO STATE THE TEST MEDIUM (AIR OR INERT GAS). PIPELINE CONTRACTOR IS RESPONSIBLE FOR PRESSURE TESTING CONFIGURATION AND ANY ADDITIONAL MATERIALS REQUIRED ARE THE RESPONSIBILITY OF PROJECT MANAGEMENT AND/OR FIELD ENGINEERING.
- 2. PIPING TO BE TESTED ACCORDING TO ANSI 150 PARAMETERS ACCORDING TO ASME B16.5
- 3. ALL INLET AND OUTLET TIE INS ARE NOT A PART OF THIS PLAN SET AND SHALL BE REPRESENTED ON PIPELINE PLAN SET.
- 4. DO NOT SUBJECT THE FOLLOWING COMPONENTS TO PRESSURE TESTING:
- 4.1. KINGTOOL FILTER/SEPARATOR
- 4.2. GENERATOR REGULATORS/METER
- 4.3. HEATER SUPPLY UNIT
- 4.4. 1.155 MBTU HEATER
- 4.5. ALL REGULATORS FOR ALL SYSTEMS
- 4.6. ANY I&C EQUIPMENT
- 5. ALL OUTLETS INCLUDING BOTH MP OUTLETS AND IP OUTLETS DO NOT NEED TO BE TESTED TOGETHER. ALL THREE ARE DIFFERENT SYSTEMS WITH DIFFERENT MAOPS. ALL NEED TO BE TESTED AT 90 PSIG MINIMUM
- 5.1. 340100232 MAOP 50 PSIG
- 5.2. 340100100 MAOP 55 PSIG
- 5.3. 340100077 MAOP 9.5 PSIG
- 6. PROPERTY LINE IS THE TERMINATION OF STATION PRESSURE TESTING. CONTRACTOR TO ASSUME WELD END CAP TO BE INSTALLED AT THE ROAD RIGHT-OF-WAY LINE.

### NEW HP MAINLINE/STATION INLET

	<u> </u>		
	DESIGN DATA		
DESIGN FACTOR:	0.4	REF. CFR 192.111	
DESIGN PRESSURE:	275 PSIG	≥ MAOP	
MINIMUM TEST PRESSURE:	413 PSIG	1.5 x DESIGN PRESSURE	
MAXIMUM TEST PRESSURE:	450 PSIG	PER ANSI B16.5	
MINIMUM TEST DURATION:	FIELD DET.	PER G.S. 1500 SERIES	
PERCENT SMYS AT DESIGN	14.10 %	% SMYS BASED ON:	
PRESSURE:	14.10 %	20", 0.375" WALL, X-52	
PERCENT SMYS AT MINIMUM	21.18 %	% SMYS BASED ON:	
TEST PRESSURE:	21.18 %	20", 0.375" WALL, X-52	
PERCENT SMYS AT MAXIMUM	22.00.0/	% SMYS BASED ON:	
TEST PRESSURE:	23.08 % 20", 0.375" WALL, X-52		
MAOP LIMITING ELEMENT:	PRESSURE TEST		
ASSEMBLED DESIGN PRESSURE:	275 PSIG		
TEST MEDIUM:	AIR (	OR INERT GAS	
PERCENT X-RAY:		100 %	

### MP'S/IP OUTLETS & HEATER FINAL CUT

	DESIGN DATA			
DESIGN FACTOR:	0.4	REF. CFR 192.111		
DESIGN PRESSURE:	60 PSIG	≥ MAOP		
MINIMUM TEST PRESSURE:	90 PSIG	1.5 x DESIGN PRESSURE		
MAXIMUM TEST PRESSURE:	125 PSIG	PER ANSI B16.5		
MINIMUM TEST DURATION:	FIELD DET.	PER G.S. 1500 SERIES		
PERCENT SMYS AT DESIGN	3.08 %	% SMYS BASED ON:		
PRESSURE:	3.06 %	20", 0.375" WALL, X-52		
PERCENT SMYS AT MINIMUM	4.62 %	% SMYS BASED ON:		
TEST PRESSURE:	4.02 %	20", 0.375" WALL, X-52		
PERCENT SMYS AT MAXIMUM	6.41 %	% SMYS BASED ON:		
TEST PRESSURE:	0.41 %	20", 0.375" WALL, X-52		
MAOP LIMITING ELEMENT:	PRI	ESSURE TEST		
ASSEMBLED DESIGN PRESSURE:	60 PSIG			
TEST MEDIUM:	AIR	OR INERT GAS		
PERCENT X-RAY:		100 %		

# NSource<sup>®</sup>







SCALE: 3/32" = 1'-0"

# **PROPOSED**

**REVISIONS** 

1				
0	9/29/23	PRELIMINARY		
REV.#	DATE	DE:	SCRIPTION	NC
DESIGNED E	BY	CRDM	09/11/24	330-596-0111
DRAWN BY		CRDM	09/11/24	330-596-0111

	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	CAMPOS	XX/XX/XX	
DRAWN BY	CRDM	09/11/24	330-596-0111
DESIGNED BY	CRDM	09/11/24	330-596-0111

SITE NAME:

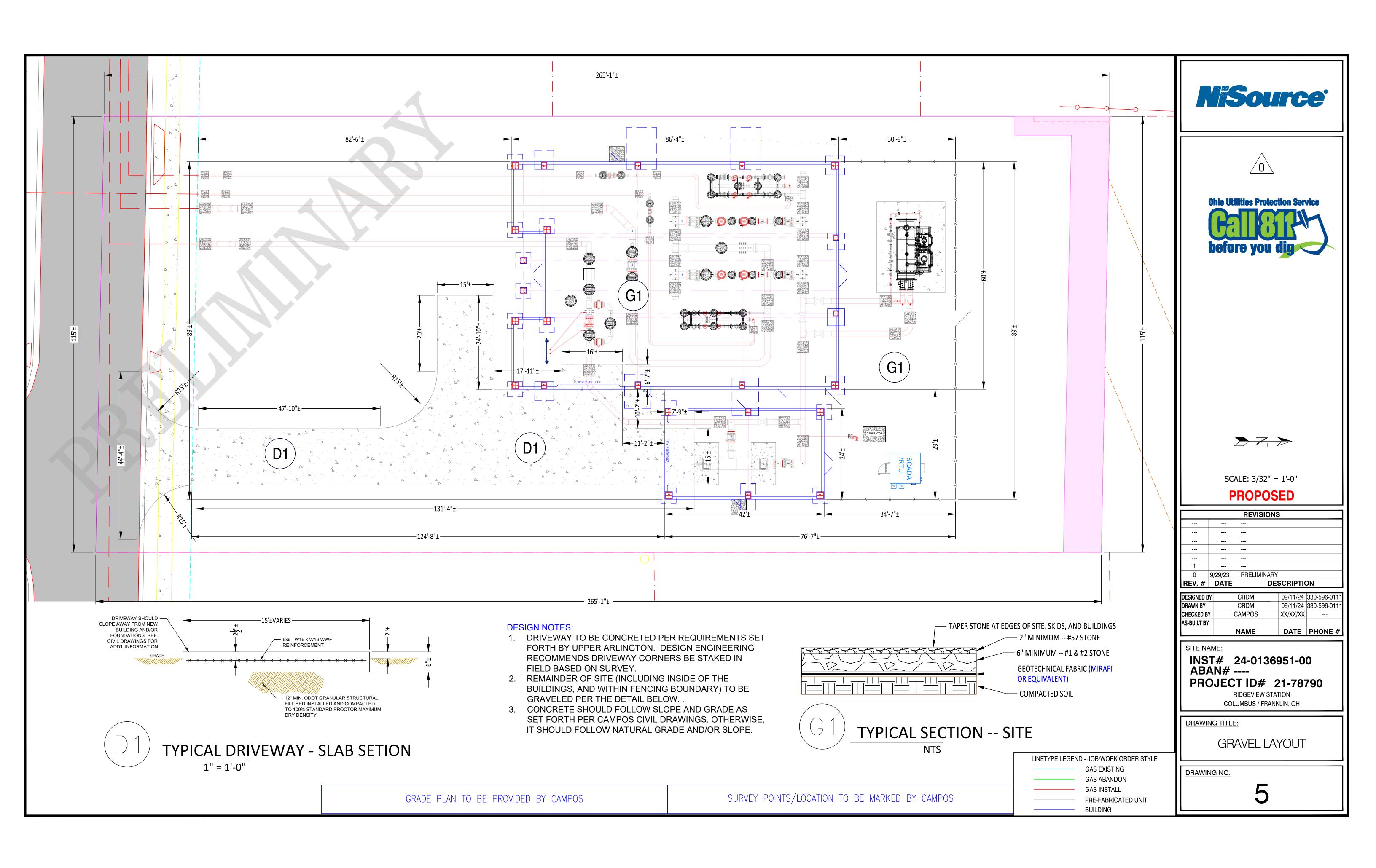
INST# 24-0136951-00 ABAN# ----PROJECT ID# 21-78790

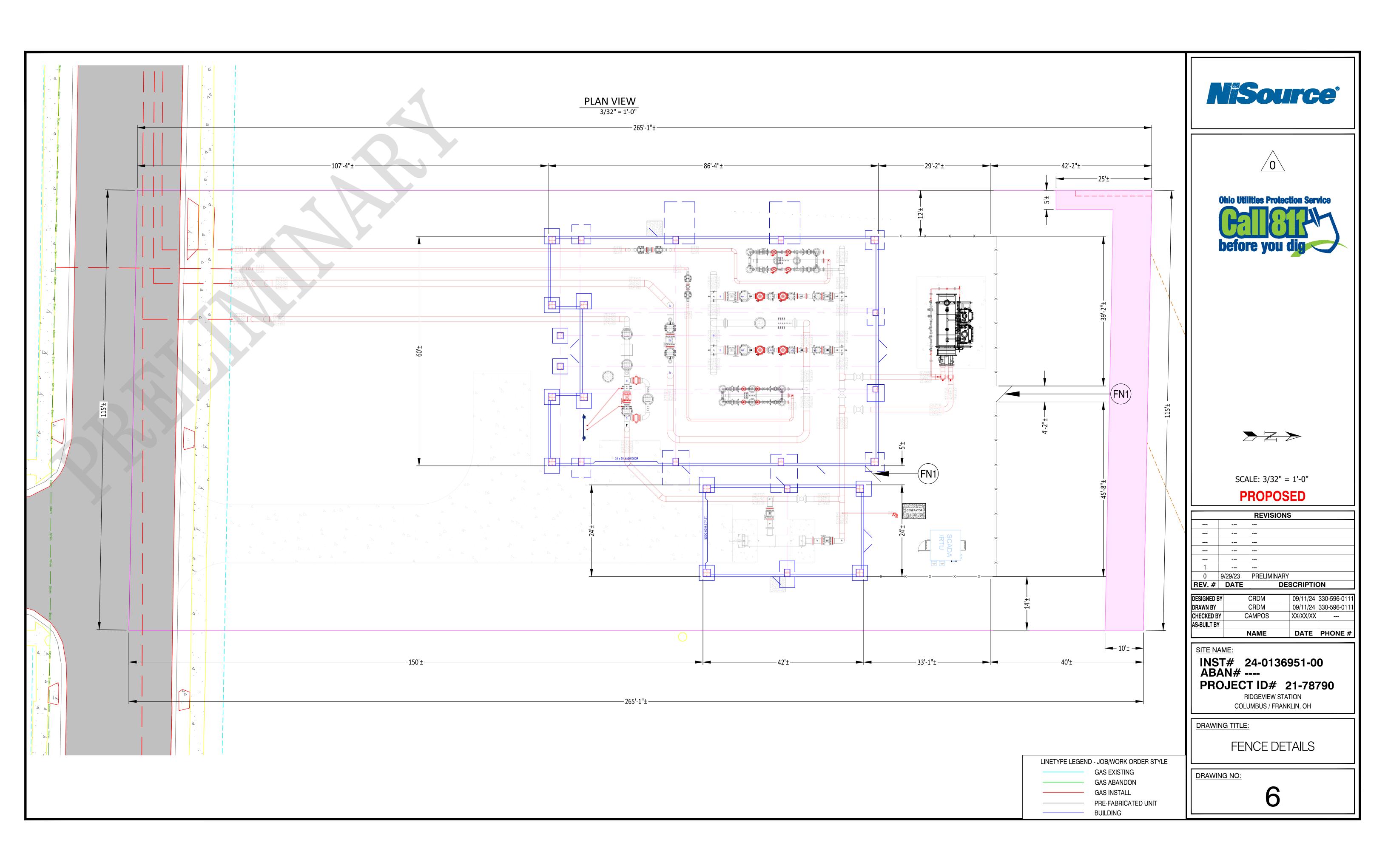
> RIDGEVIEW STATION COLUMBUS / FRANKLIN, OH

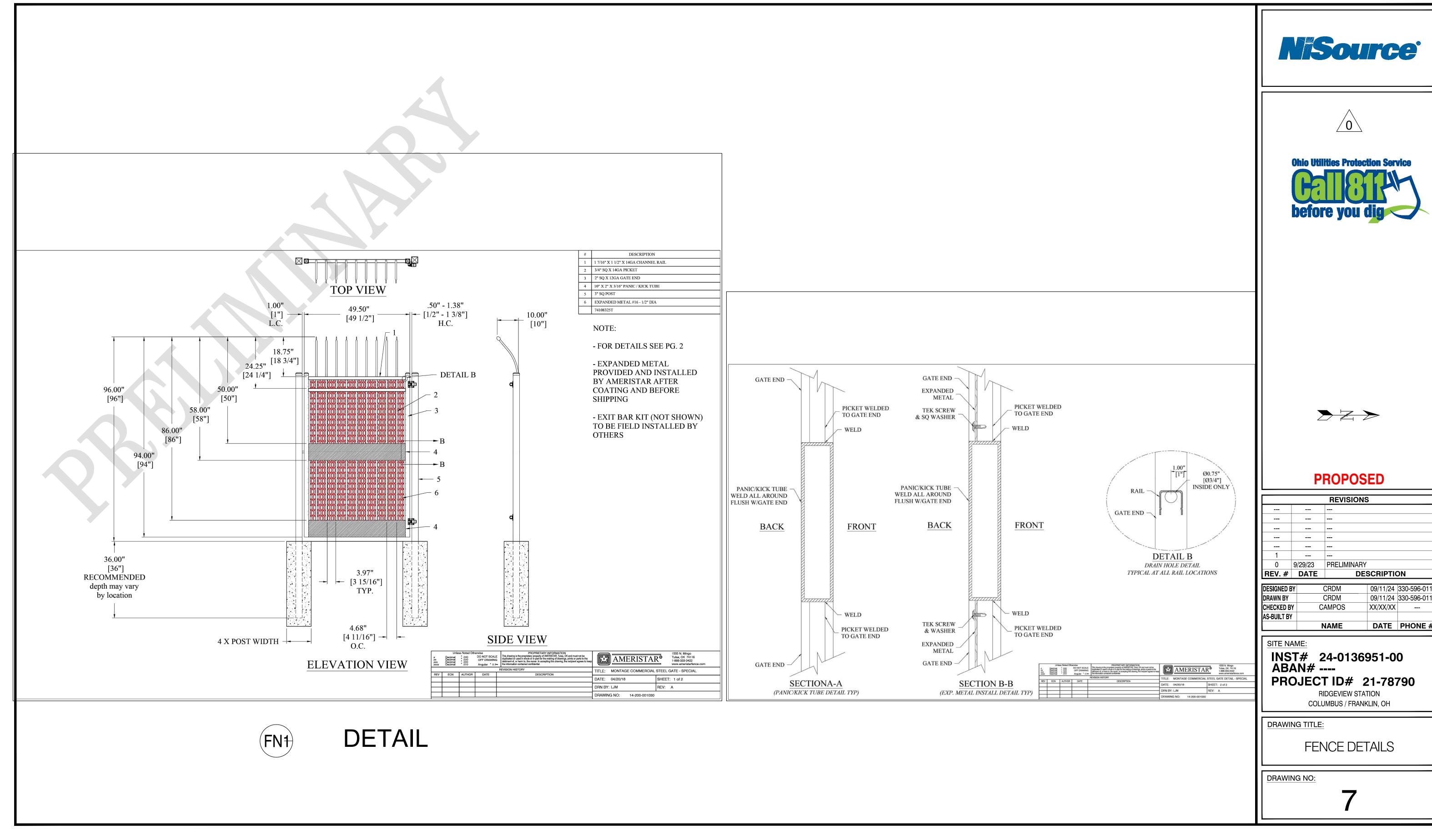
DRAWING TITLE:

PRESSURE TEST DETAILS

DRAWING NO:

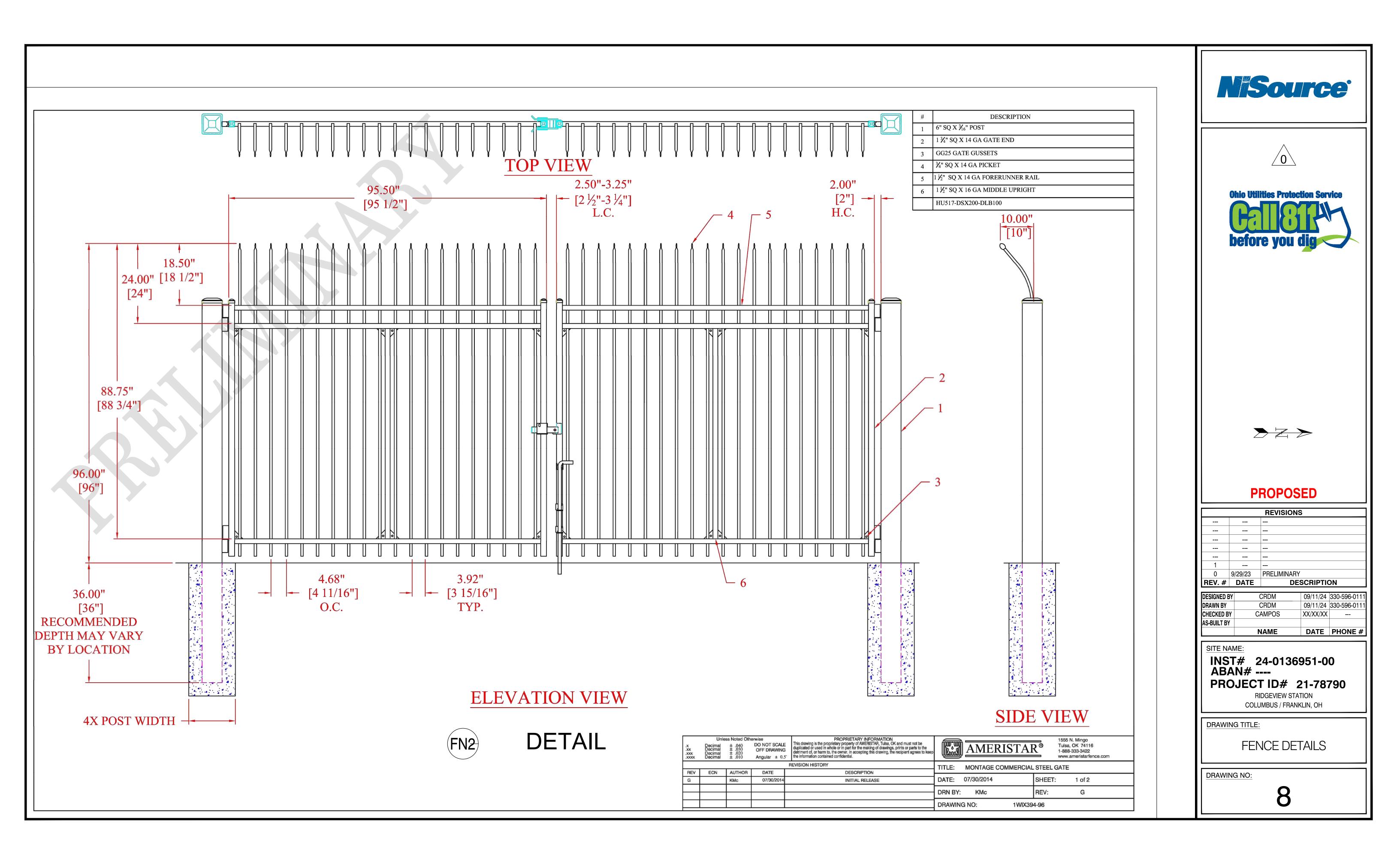


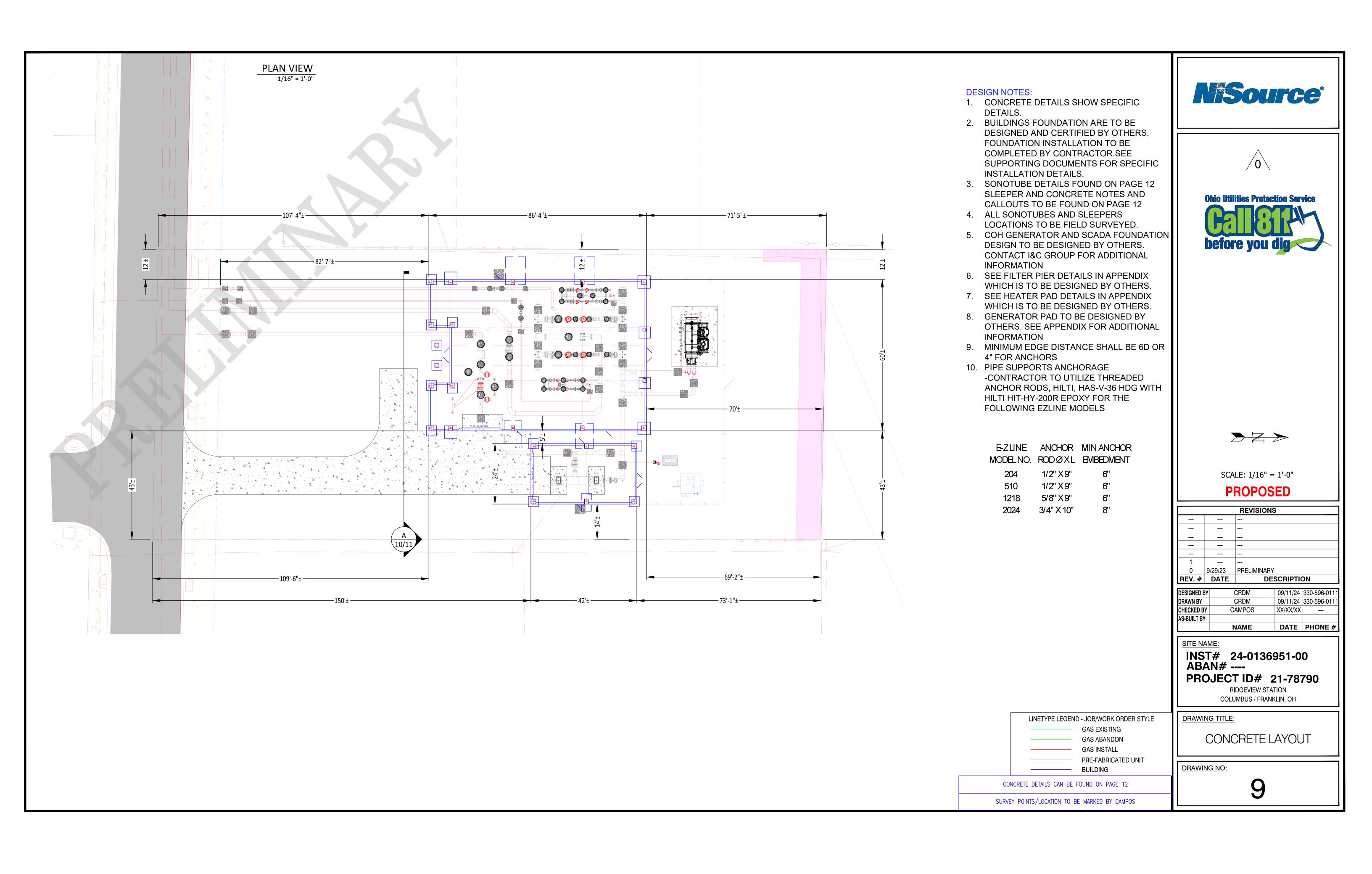


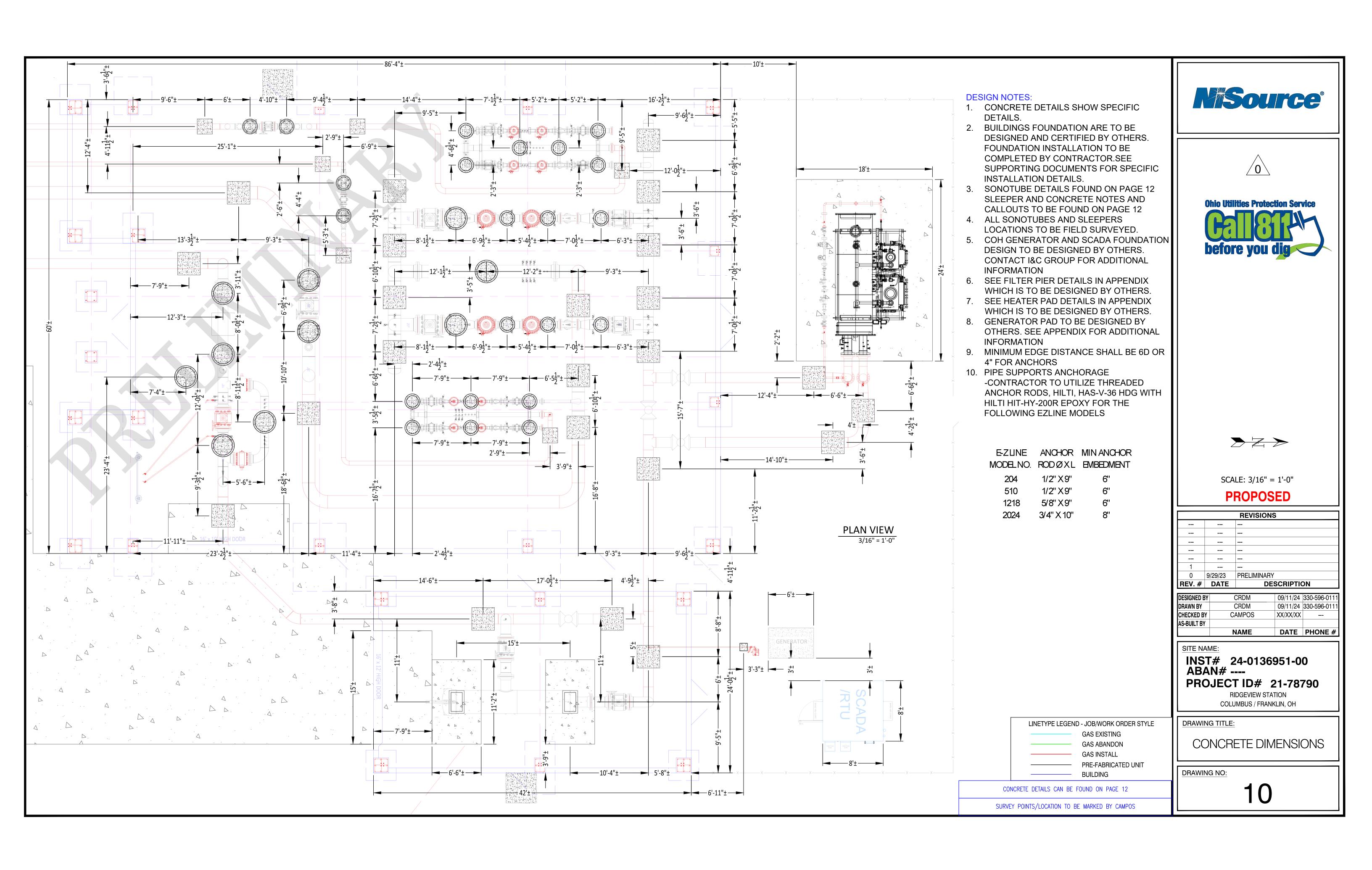


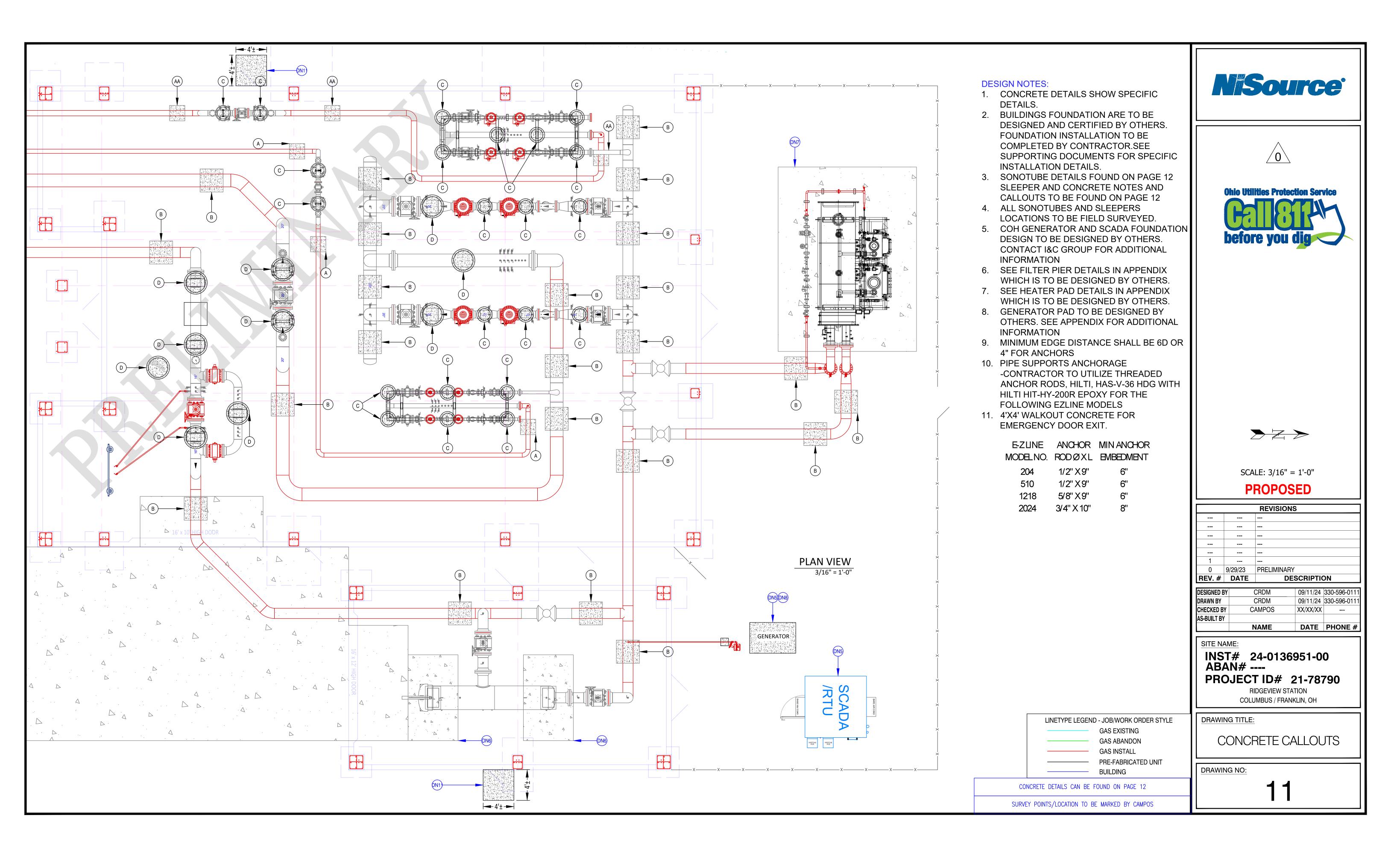
PREL	IMINARY
E	DESCRIPTION

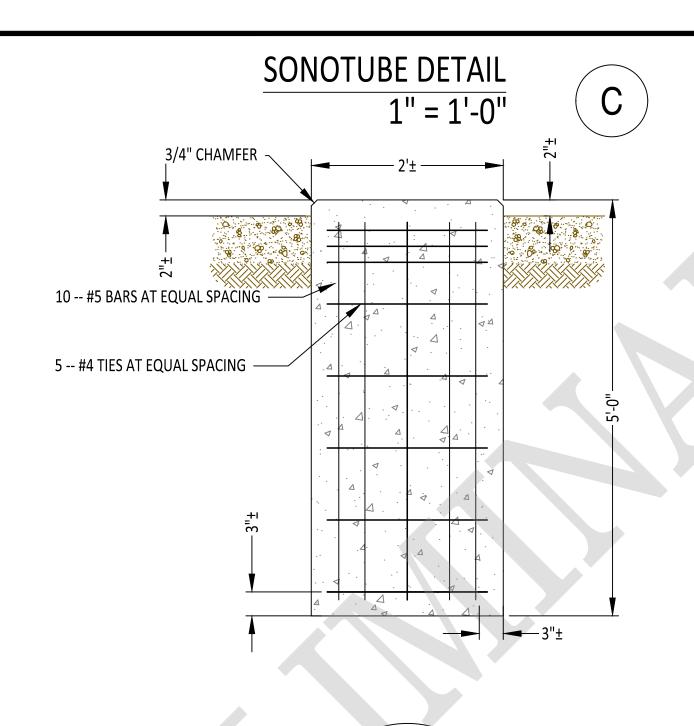
	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	CAMPOS	XX/XX/XX	
DRAWN BY	CRDM	09/11/24	330-596-011
DESIGNED BY	CRDM	09/11/24	330-596-011

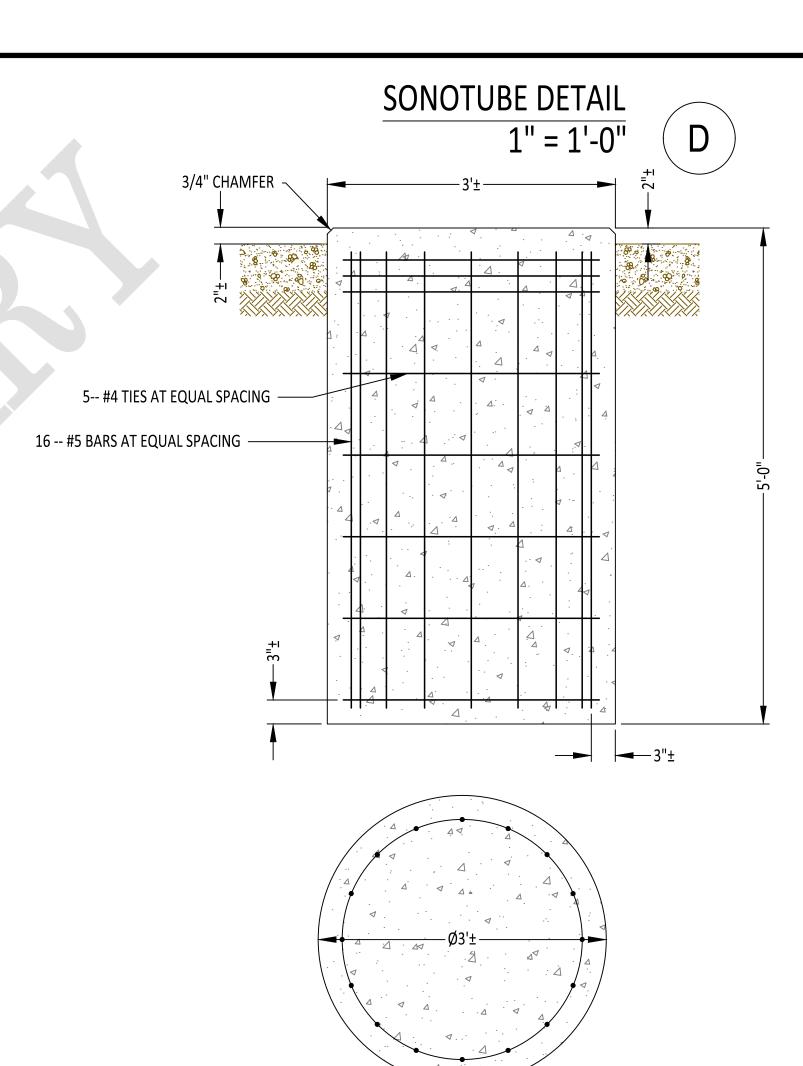




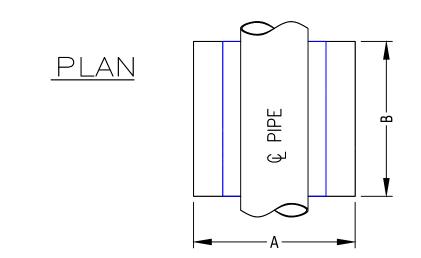


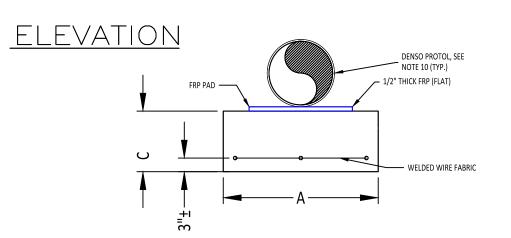






	CONCRETE SLEEPER DETAILS									
CALL	PIPE	FRP	WIDTH 'A'	LENGTH	DEPTH	CU.YARDS	WELDED WIRE FABRIC/MESH			
OUT	SIZE (")	SIZE (")	(FEET)	'B' (FEET)	'C' (FEET)	CONC.	REQUIRED			
	2	12x12	2	2	1	0.15 ±	4"x4"-4/4 WELD WIRE MESH			
	3	12x12	2	2	1	0.15 ±	4"x4"-4/4 WELD WIRE MESH			
	4	12x12	2	2	1	0.15 ±	4"x4"-4/4 WELD WIRE MESH			
А	6	12x12	2	2	1	0.15 ±	4"x4"-4/4 WELD WIRE MESH			
AA	8	12x12	2	2	1	0.15 ±	6"x6"-10/10 WELD WIRE MESH			
	10	12x12	3	3	1	0.33 ±	6"x6"-10/10 WELD WIRE MESH			
	12	12x12	3	3	1 1/2	0.50 ±	6"x6"-10/10 WELD WIRE MESH			
	14	12x12	3	3	1 1/2	0.50 ±	6"x6"-10/10 WELD WIRE MESH			
В	16	12x12	3	3	1 1/2	0.50 ±	6"x6"-10/10 WELD WIRE MESH			
	18	12x12	3	3	1 1/2	0.50 ±	6"x6"-10/10 WELD WIRE MESH			
В	20	12x12	3	3	1 1/2	0.50 ±	6"x6"-10/10 WELD WIRE MESH			
	22	12x12	3	3	1 1/2	0.50 ±	6"x6"-10/10 WELD WIRE MESH			
	24	12x12	4	4	1 1/2	0.89 ±	6"x6"-10/10 WELD WIRE MESH			
	26	12x12	4	4	2	1.19 ±	6"x6"-10/10 WELD WIRE MESH			
	30	12x12	4	4	2	1.19 ±	6"x6"-10/10 WELD WIRE MESH			
	36	12x12	5	5	2 1/2	2.31 ±	6"x6"-10/10 WELD WIRE MESH			
	42	12x12	5 1/2	5 1/2	2 3/4	3.08 ±	6"x6"-10/10 WELD WIRE MESH			





### **CONCRETE NOTE (SLEEPERS)**

- CONTRACTOR TO FURNISH ALL MATERIALS
- 2. CONCRETE SUPPORT CONFIGURATION MAY VARY ACCORDING TO PIPE SIZE & FITTINGS.
- 3. DO NOT PLACE CONCRETE SUPPORTS BENEATH PIPE WELDS
- 3.1. WELDS ARE TO ≥1D AWAY FROM CONCRETE
  4. STEEL REINFORCEMENT BAR SHALL CONFORM TO ASTM A-615, GRADE 60
- 5. ALL REINFORCING DIMENSIONS ARE OUT TO OUT OF BAR
- QUANTITIES REQUIRED IS CONTRACTORS
  RESPONSIBILITY

6. REBAR QUANTITIES SHOWN ARE FOR ONE EACH.

- 7. BOTTOM OF FOOTERS AND/OR SLEEPERS SHALL EXTEND TO UNDISTURBED EARTH; BOTTOM OF CONCRETE TO BE PLACED ON SOLID FOOTING
- 8. WELDED WIRE MESH PER ASTM A1064
- 9. RIGID FORM WORK NOT REQUIRED
- 10. PIPING RESTING ON CONCRETE SUPPORTS SHALL BE COATED WITH DENSO PROTOL 7000/7200, OR 7125 (40MILS THICKNESS) FROM A POINT ±6" PAST THE OUTER EDGE OF THE CONCRETE SUPPORT
- 10.1. DENSO PROTOL MAY BE INSTALLED DIRECTLY OVER EXISTING FBE COATED PIPE
- 10.2. FIBERGLASS REINFORCED PAD (FRP) SHOULD BE INSTALLED BETWEEN THE CONCRETE & THE PIPE, TO LAY FLAT ON THE CONCRETE, NOT WRAPPED AROUND THE PIPE

### **STATION CONCRETE NOTES**

- 1. THE STATION SHALL HAVE BOLLARD PROTECTION INSTALLED PER GS 2300.020 EXHIBIT A. OR AS CALLED OUT ON THIS PLAN SET.
- 2. THE PREPARED PLAN GIVES THE DIMENSIONS BETWEEN THE SONOTUBES. THE FIRST SONOTUBE LOCATION IS RELATIVELY FLEXIBLE AND CAN BE FIELD ADJUSTED AS NEEDED. AFTER THE FIRST TUBE IS POURED, THE REMAINING SONOTUBES MUST BE POURED SQUARE, LEVEL AND BASED ON THE DIMENSIONS FOUND ON THE PREVIOUS PAGE. ANY DEVIATION FROM THIS MUST BE APPROVED BY EITHER PROJECT MANAGEMENT OR M&R ENGINEERING.
- COLUMBIA GAS OF OHIO WILL ACCEPT SONOCO "SONOTUBE" BRAND TUBES OR EQUIVALENT FOR THIS PROJECT.
- EARLY SET HIGH STRENGTH CONCRETE IS ACCEPTABLE TO USE UNDER CERTAIN CONDITIONS:
  - 4.1 THE TUBES MUST BE KEPT DAMP WHILE CURING.
  - 4.2 THE TUBES MUST BE COVERED WITH BLANKETS WHILE CURING.
  - 4.3 THE BLANKETS MUST SLOWLY AND CAREFULLY BE REMOVED TO PREVENT FLASH CURING.
  - 4.4 A FINAL INSPECTION BY COLUMBIA GAS OF OHIO WILL BE PERFORMED TO ENSURE THAT NO SHRINKAGE CRACKING HAS OCCURRED.
  - 4.5 IF SHRINKAGE CRACKING OCCURS, THE TUBE WILL BE REMOVED AND RE-POURED AS DIRECTED BY COLUMBIA GAS OF OHIO.
- IT IS **REQUIRED** THAT ALL SKID UNITS BE **GROUNDED AND ANCHORED**.
- IT IS **REQUIRED** THAT ALL FLANGE INSULATOR KITS INSTALLED INSIDE THE BUILDING BE WIRED TO A GROUNDING CELL, PER COH CORROSION RECOMMENDATION.
- 7. CONCRETE & REBAR SPECIFICATIONS AS SPECIFIED BELOW UNLESS OTHERWISE NOTED:
- 7.1. ACI-301 STD SPECIFICATIONS FOR STRUCTURAL CONCRETE
- 7.2. ACI-318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- 7.3. ACI-305R HOT & COLD WEATHER CONCRETING
- 7.4. ACI-304 GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE
- 7.5. PORTLAND CEMENT PER ASTM C-150 TYPE II (OR ASTM C1157 TYPE HS) W/ AIR ENTRAINING AGENT ADDED (MAY BE ELIMINATED ON FOOTERS OR SLABS BELOW GRADE).
- 7.5.1. NON-HIGH SULFATE RESISTANCE TYPE OF CEMENT MAY BE USED IF IT IS KNOWN THAT CONCRETE WILL NOT BE SUBJECT TO SULFATE ATTACK
- 6. ≥4500 PSI COMPRESSIVE STRENGTH AT OR AFTER 28 DAYS
- 7. MAXIMUM WATER:CEMENT RATIO: 0.45
- B. RECOMMENDED AVERAGE TOTAL AIR CONTENT: 4.5-7.5%
- 9. MAXIMUM AGGREGATE SIZE: 0.75"
- .10. MAXIMUM SLUMP: 3" ± 1.25" [WALLS, COLUMNS, PILES, & BEAMS]; 2.75"
- ± 0.75" [ALL OTHER CONCRETE]

CONCRETE FINISH

- 7.11. ≤25% FLYASH CONTENT BY WEIGHT
- 12. WATER -- PREFERRED POTABLE NATURAL WATER, ALTERNATIVE -- <2000 PPM TOTAL DISSOLVED SOLIDS
- 7.13. MINIMUM CEMENT CONTENT 517 LBS (5-1/2 BAGS) PER CUBIC YARD OF CONCRETE
- 7.14. ALL CONCRETE SHALL BE PROTECTED BY ONE OR MORE CURING MATERIALS, POLYETHYLENE SHEETING WILL BE PERMITTED AS CURING ONLY ON AREAS WHERE INTIMATE CONTACT WITH THE CONCRETE SURFACE CAN BE OBTAINED AND MAINTAINED FOR AT LEAST SEVEN DAYS. MEMBRANE FORMING CURING COMPOUND MAY BE USED IF IMMEDIATELY APPLIED AFTER ACCEPTANCE OF THE
- 7.15. ALL EXPOSED CONCRETE SURFACES SHALL BE A FLOAT FINISH AND STEEL TROWELED TO PRODUCE A SMOOTH, UNIFORM SURFACE. UPON REMOVAL OF FORMS, ALL FINS AND IRREGULAR PROJECTIONS SHALL BE REMOVED. CAVITIES PRODUCED BY FORM TIES AND OTHER HOLES, HONEYCOMB SPOTS, BROKEN CORNERS OR EDGES, AND OTHER DEFECTS SHALL BE REPAIRED AND RUBBED
- 7.16. CONTRACTOR SHALL COMPACT THE GRANULAR BASE DIRECTLY UNDER CONCRETE TO 100% SPMDD
- 7.17. DESIGN, DETAIL, FABRICATE, AND PLACE REINFORCING STEEL PER LASTEST ACI AND CRSI SPECIFICATION WITH ASTM A-615 MATERIAL
- 7.18. STEEL REINFORCMENT BAR SHALL CONFORM TO ASTM A-615, GRADE 60.







### **PROPOSED**

1		
		REVISIONS
1		
0	9/29/23	PRELIMINARY
REV.#	DATE	DESCRIPTION

	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	CAMPOS	XX/XX/XX	
DRAWN BY	CRDM	09/11/24	330-596-0111
DESIGNED BY	CRDM	09/11/24	330-596-0111

SITE NAME:

INST# 24-0136951-00 ABAN# ----PROJECT ID# 21-78790

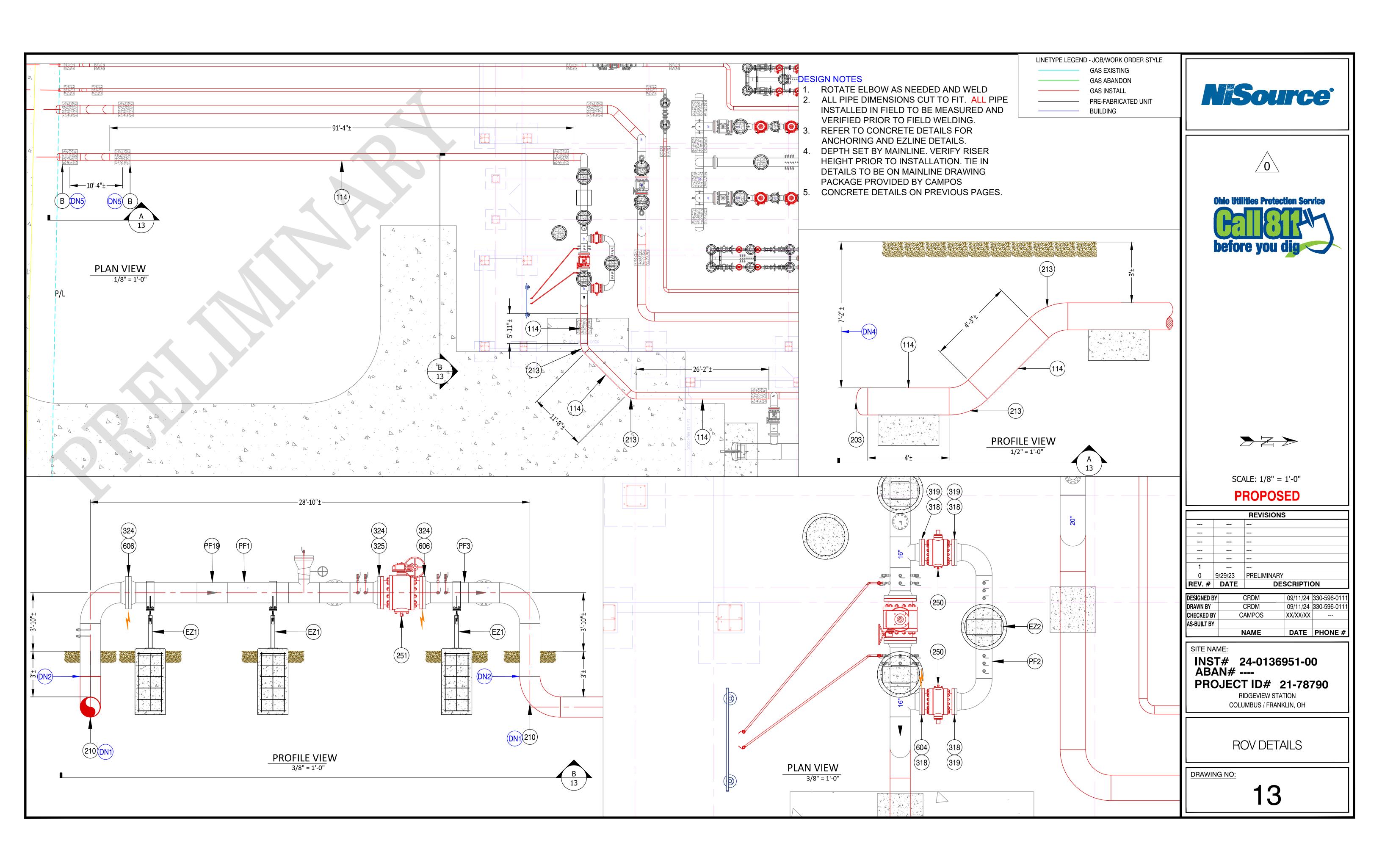
CONCRETE DETAILS

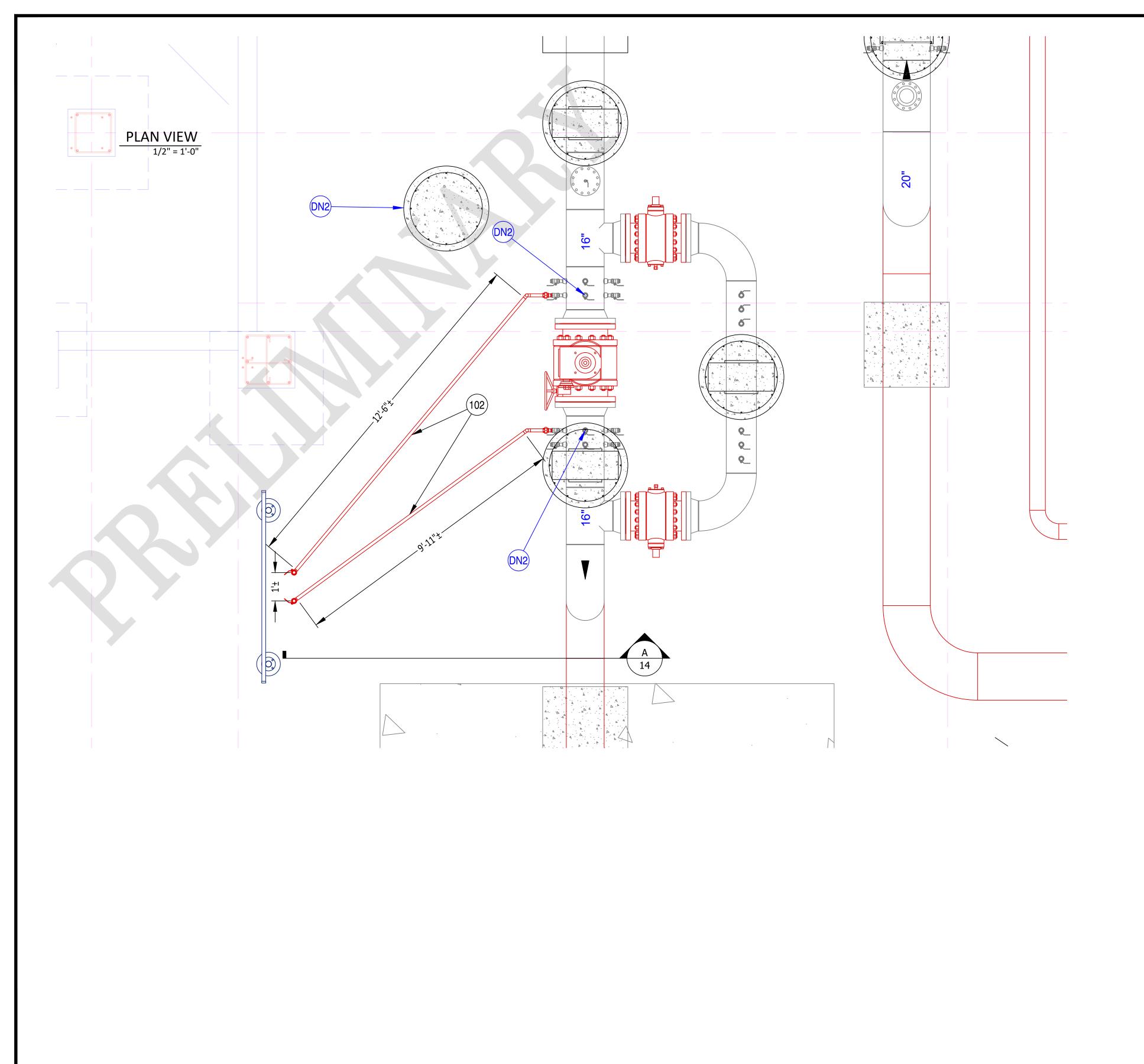
RIDGEVIEW STATION

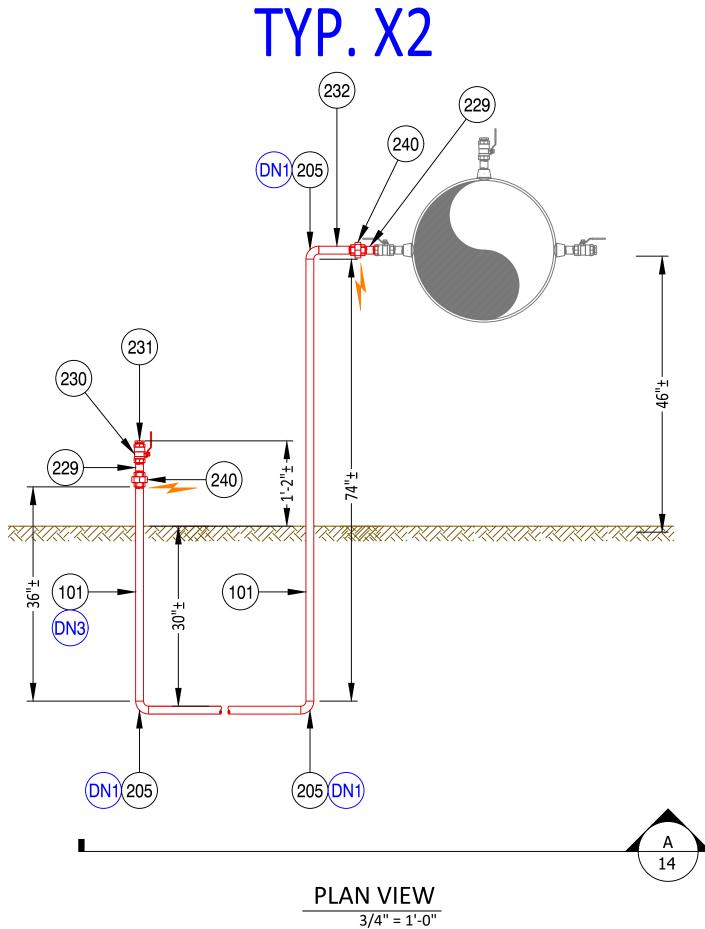
COLUMBUS / FRANKLIN, OH

DRAWING NO:

DRAWING TITLE:

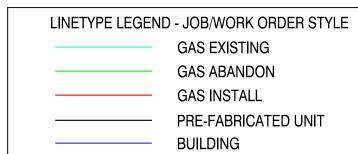






### **DESIGN NOTES**

- 1. ROTATE ELBOW AS NEEDED AND WELD
- 2. TAP DESIGNATED FOR ACTUATOR SUPPLY GAS. ALL ACTUATOR TUBING, CHECK VALVES, AND TANK CONNNECTIONS ARE THE RESPONSIBILITY OF THE I&C GROUP. THIS MATERIAL IS NOT REPRESENTED AS PART OF THIS PLAN SET.
- 3. FIELD THREAD PIPE AS NECESSARY FOR CONNECTION INTO THREADED FITTINGS.
- 4. CONSIDER: TRANSMITTER PIPING TO BE RUN AFTER H-FRAME IS IN PLACE AND BUILDING CONCRETE IS POURED TO AVOID CONFLICTS WITH FOUNDATIONS.











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

# 

	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	CAMPOS	XX/XX/XX	
DRAWN BY	CRDM	09/11/24	330-596-0111
DESIGNED BY	CRDM	09/11/24	330-596-0111

SITE NAME:

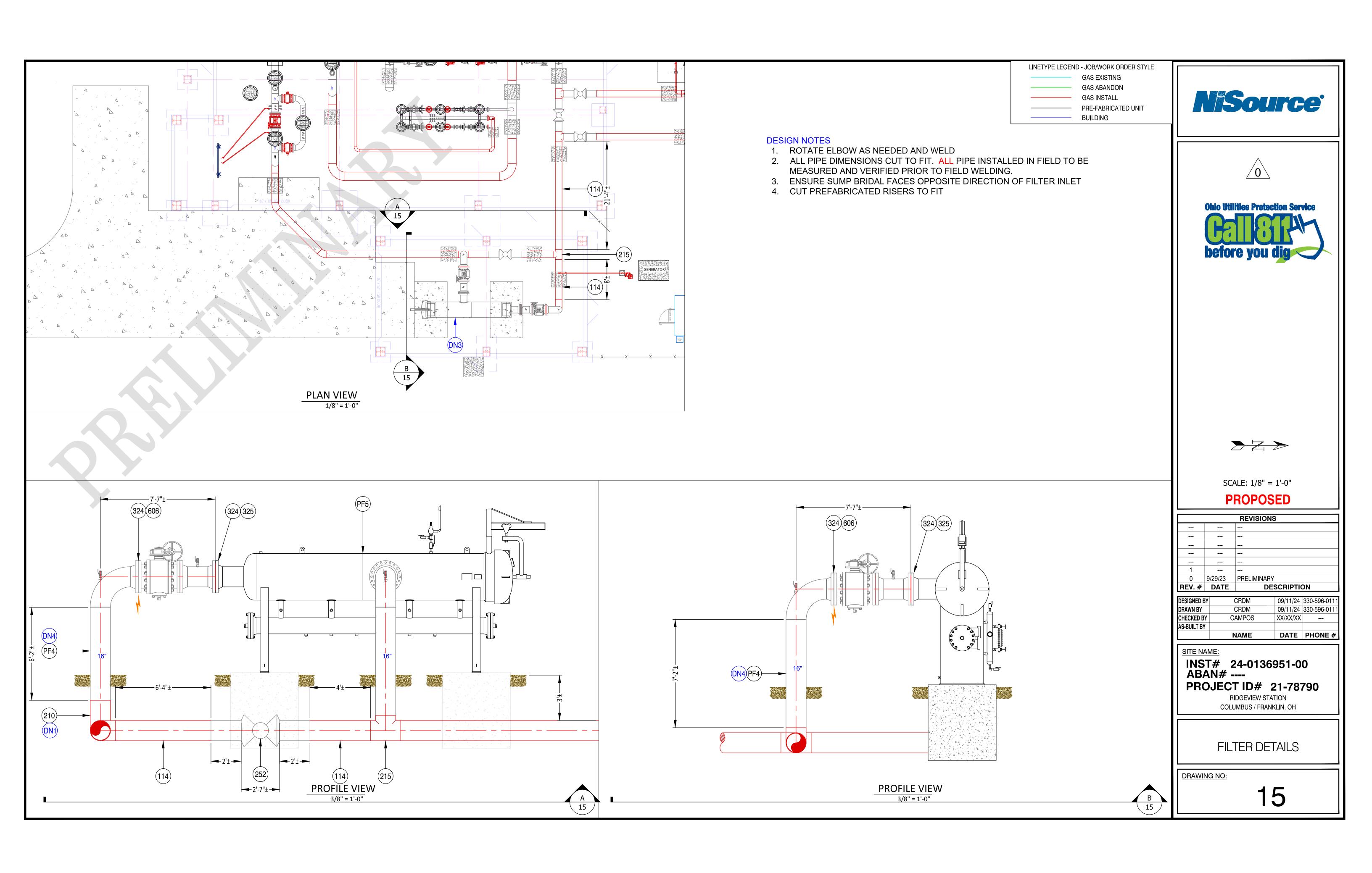
INST# 24-0136951-00 ABAN# ----PROJECT ID# 21-78790

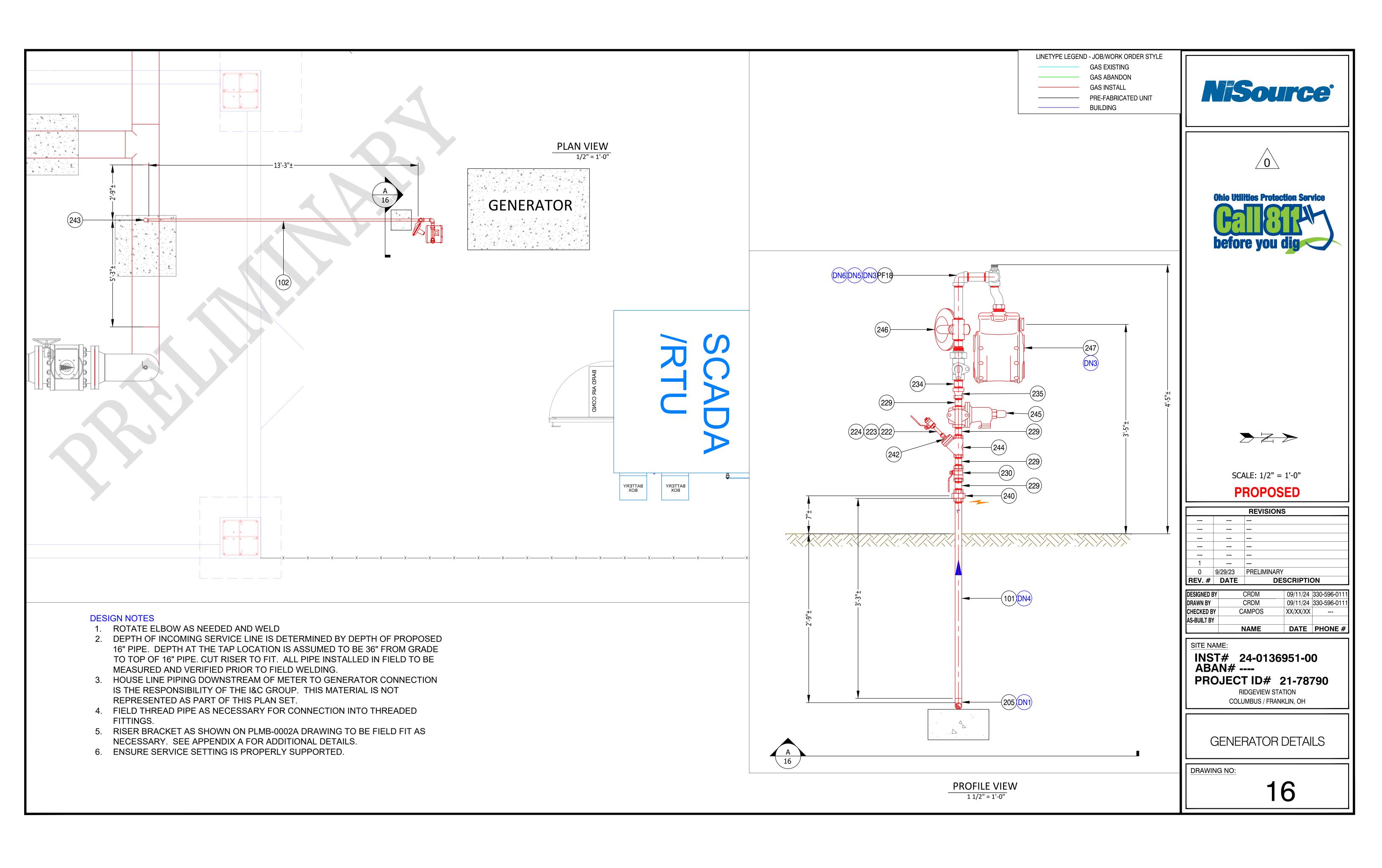
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COLUMBUS / FRANKLIN, OH

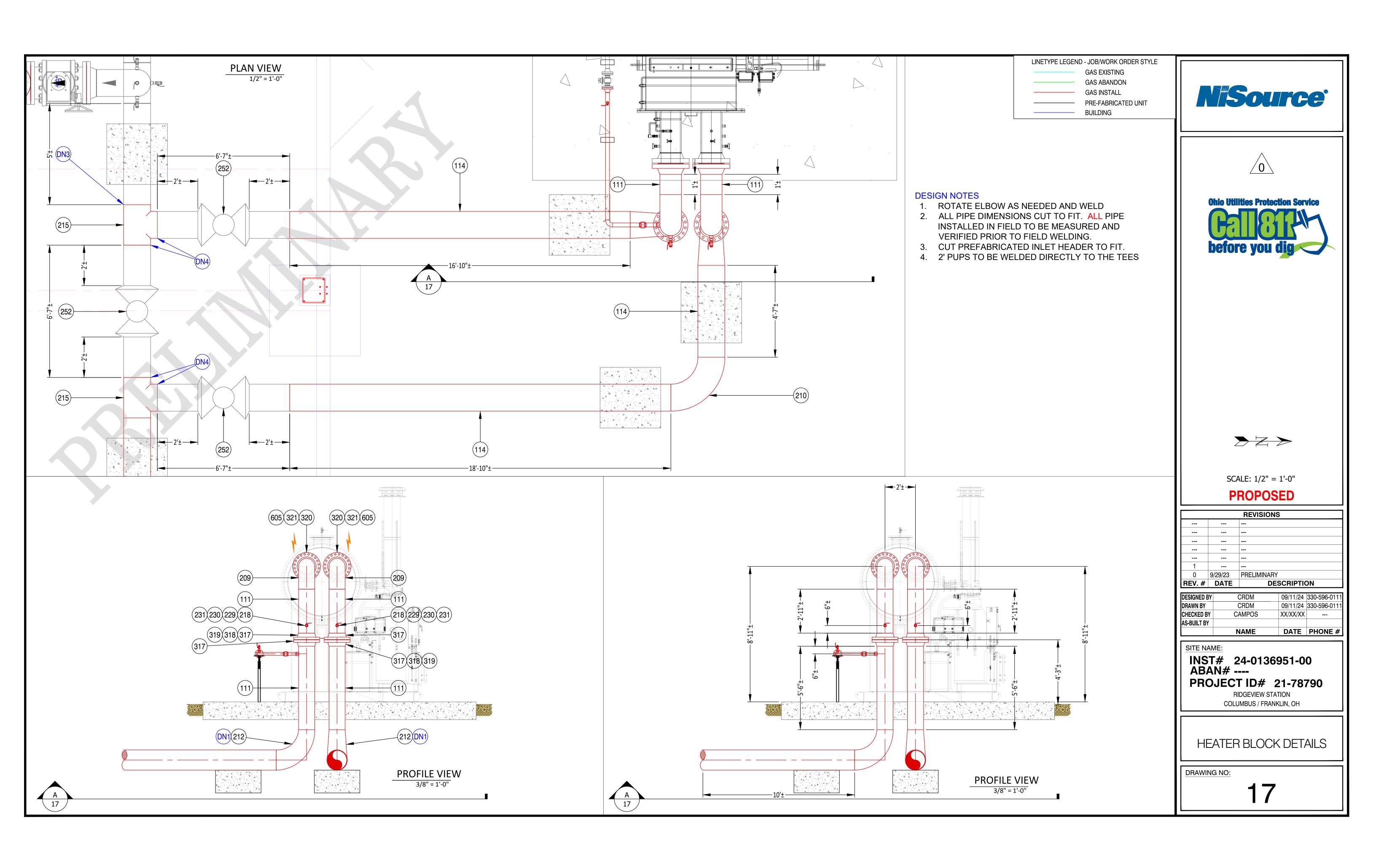
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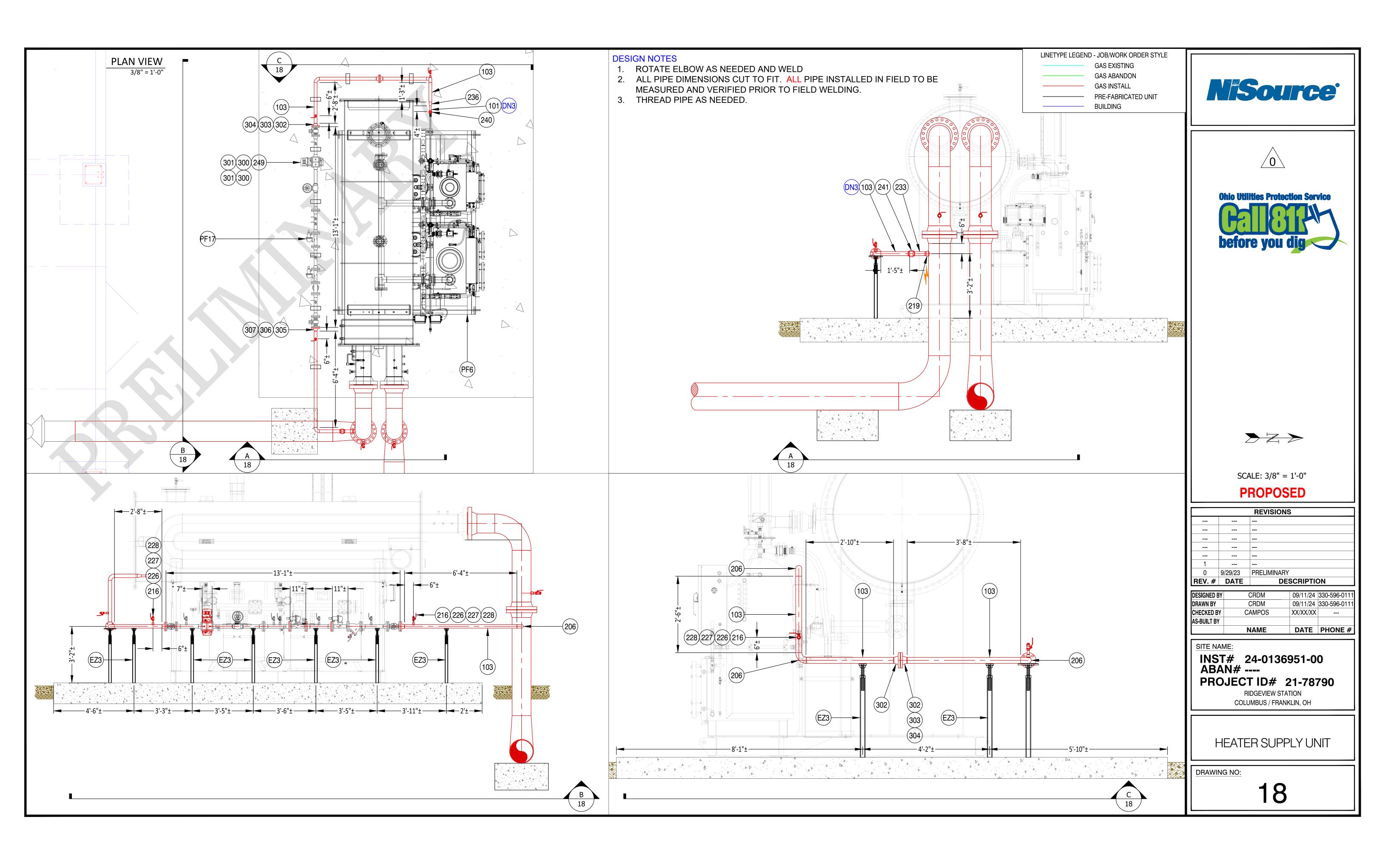
TRANSMITTER PIPING DETAILS

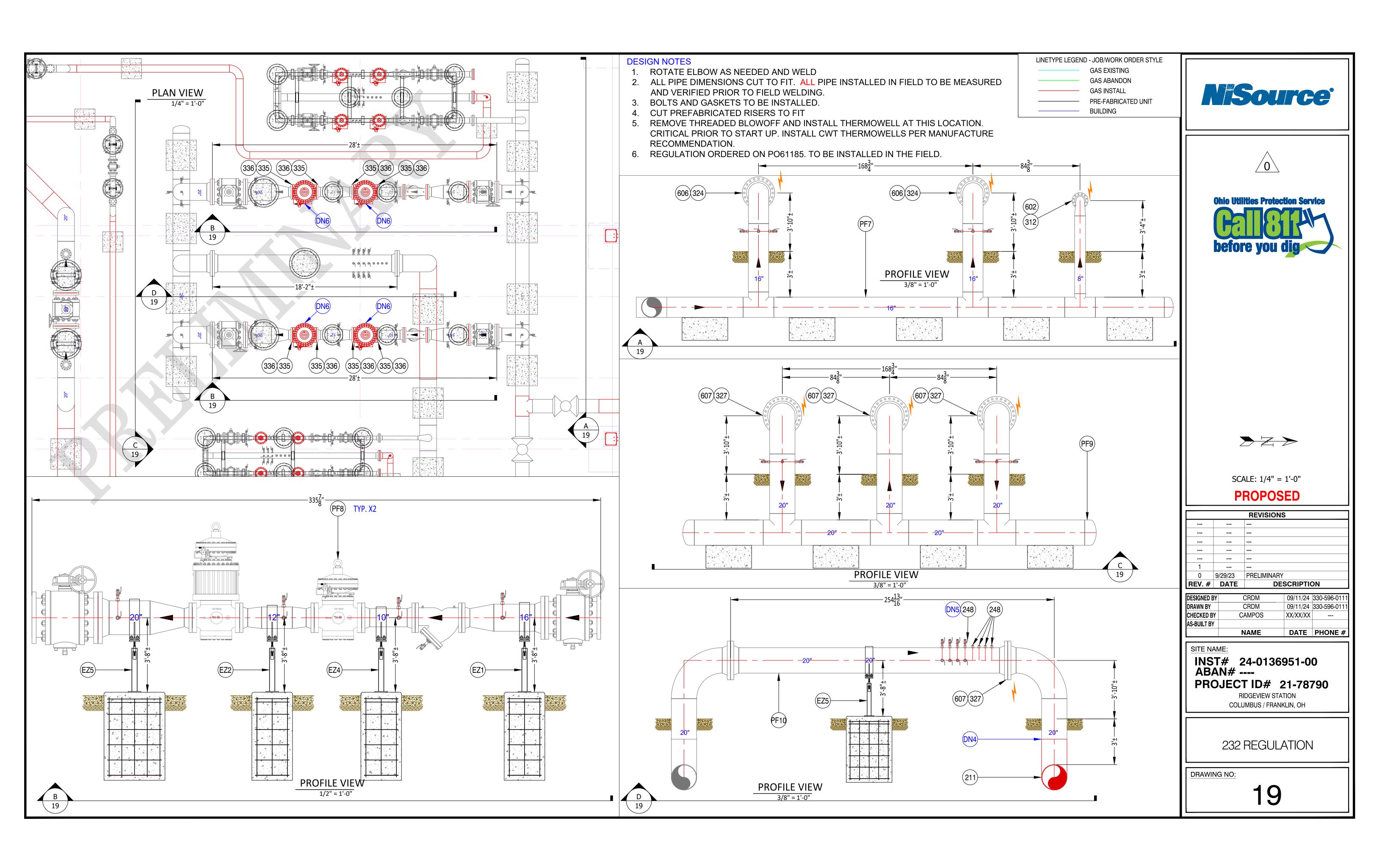
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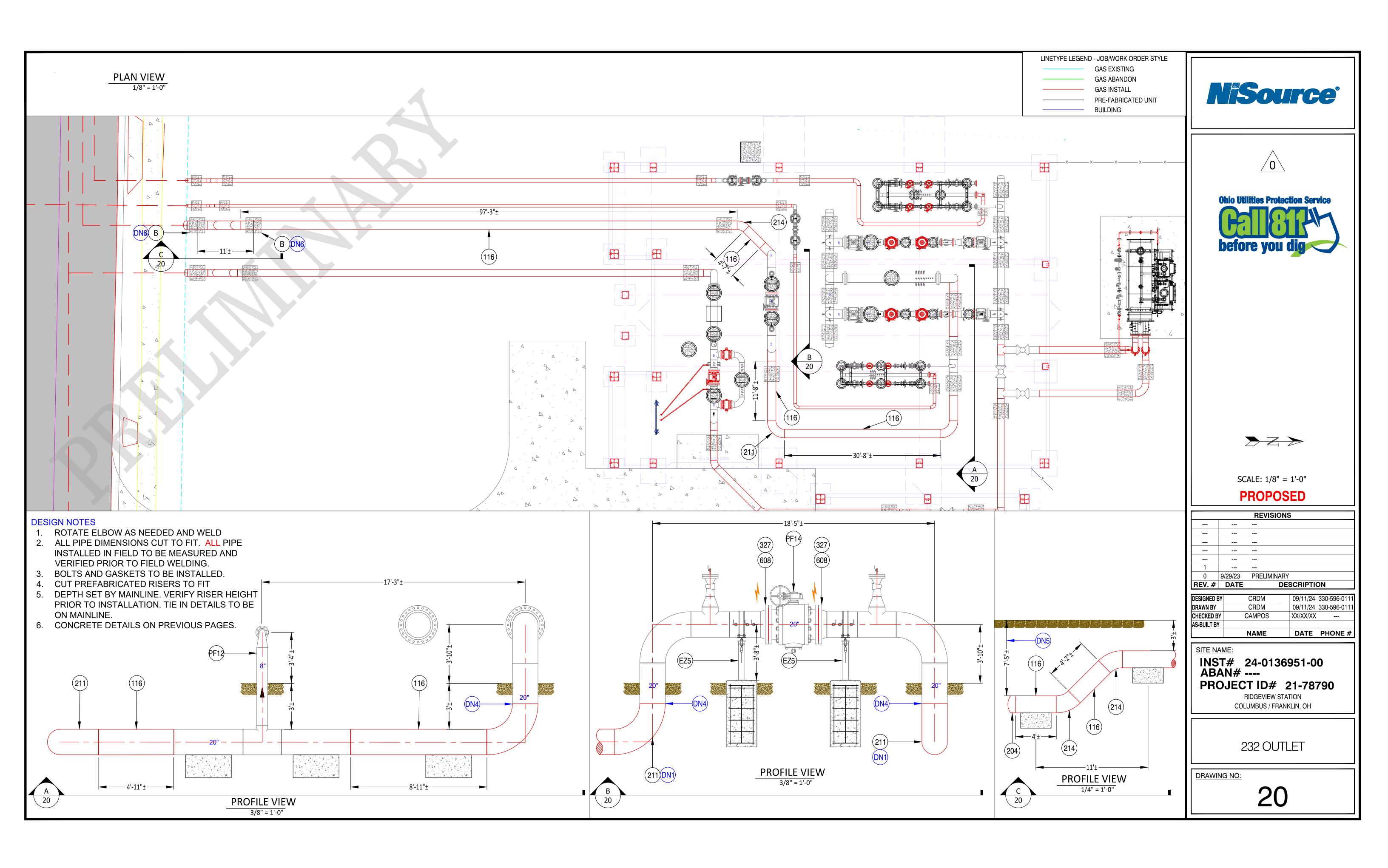


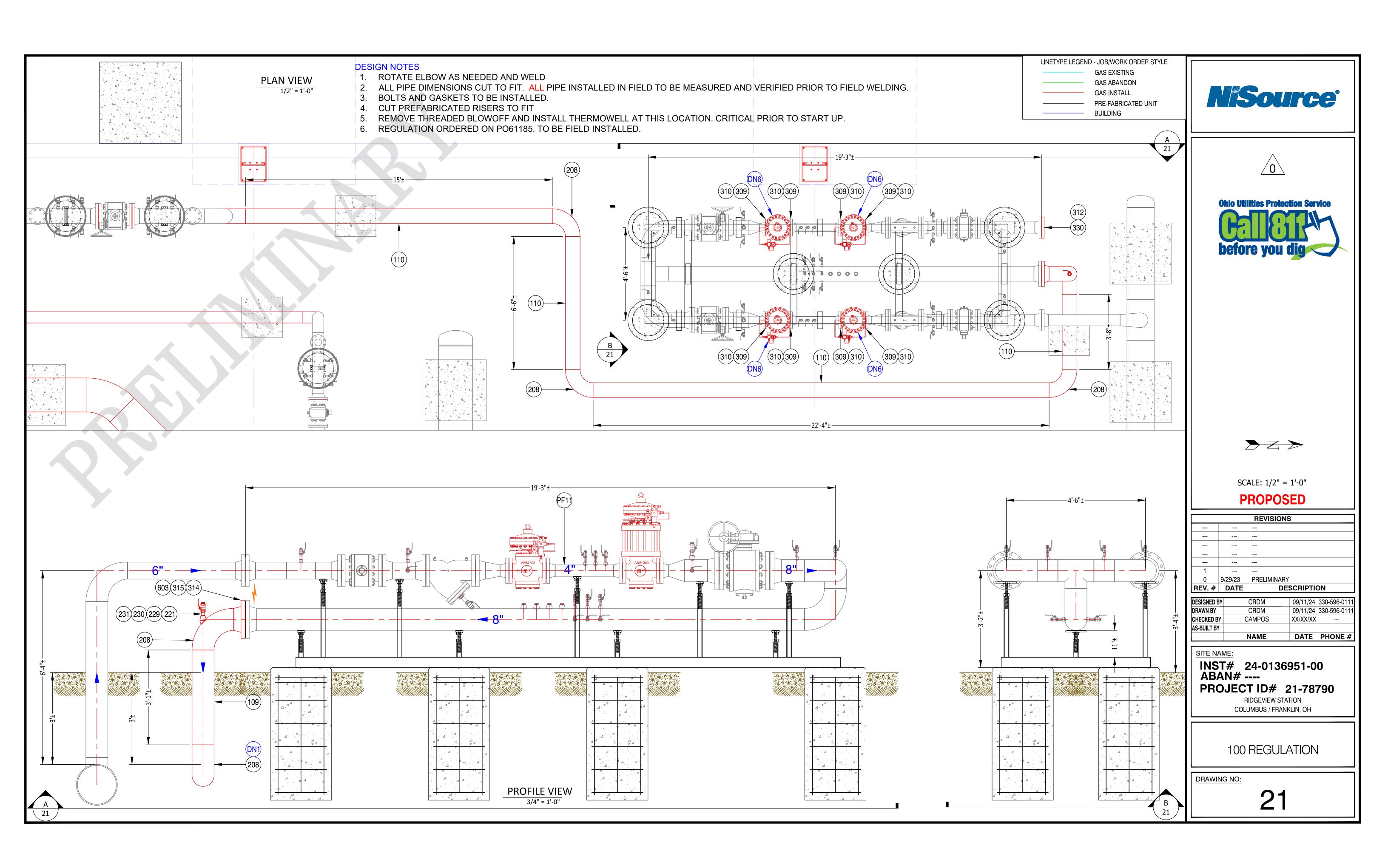


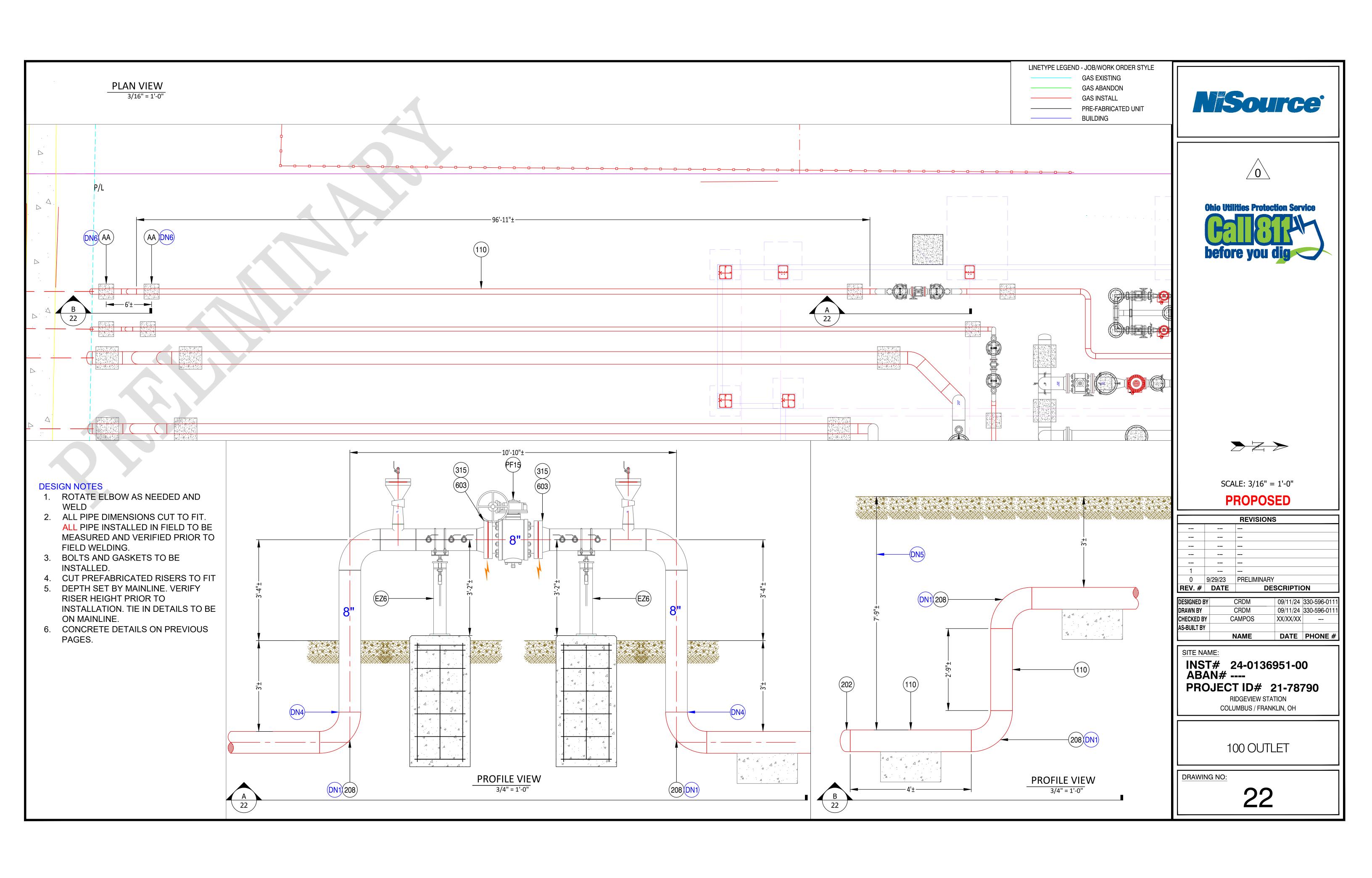


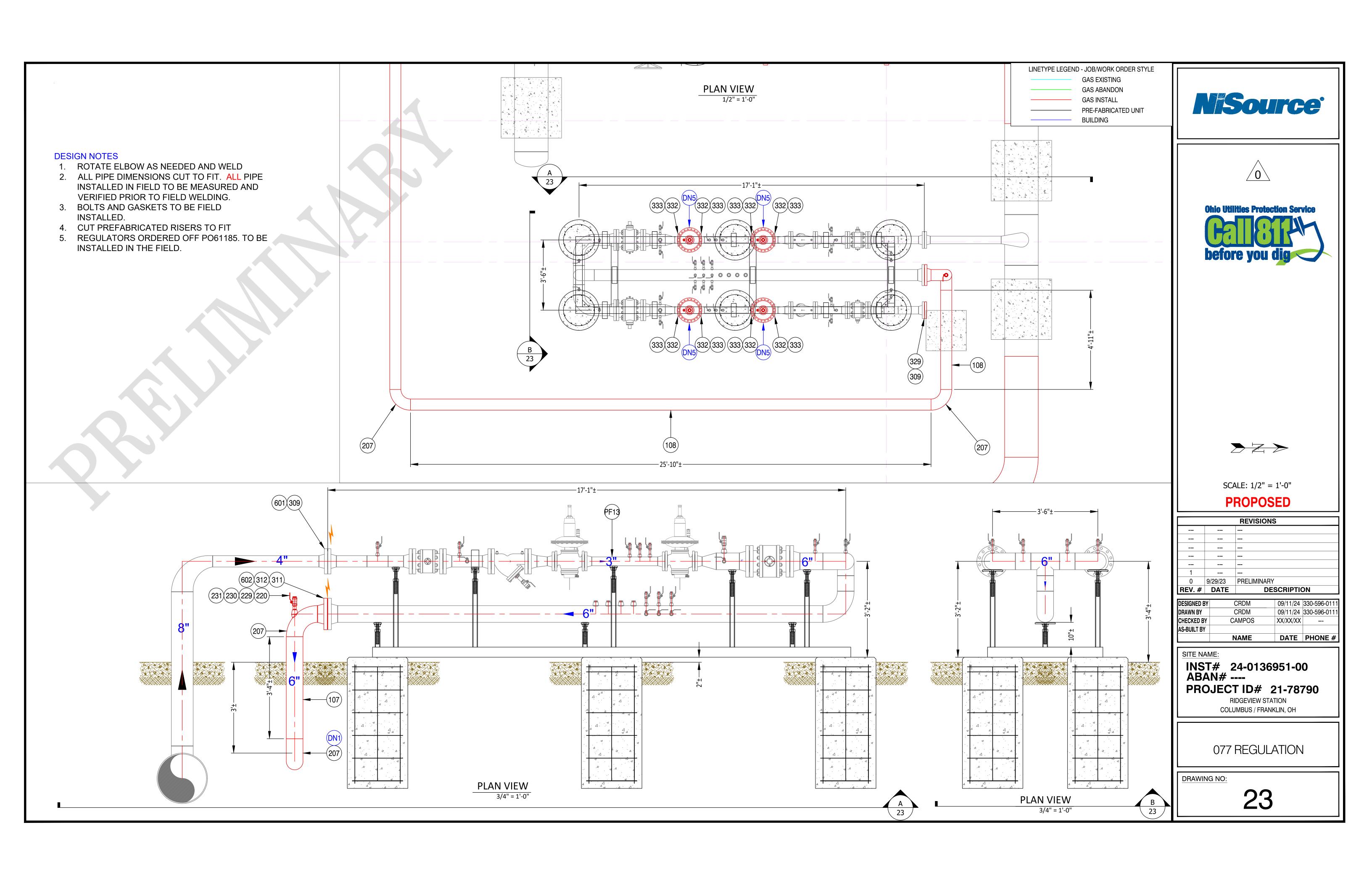


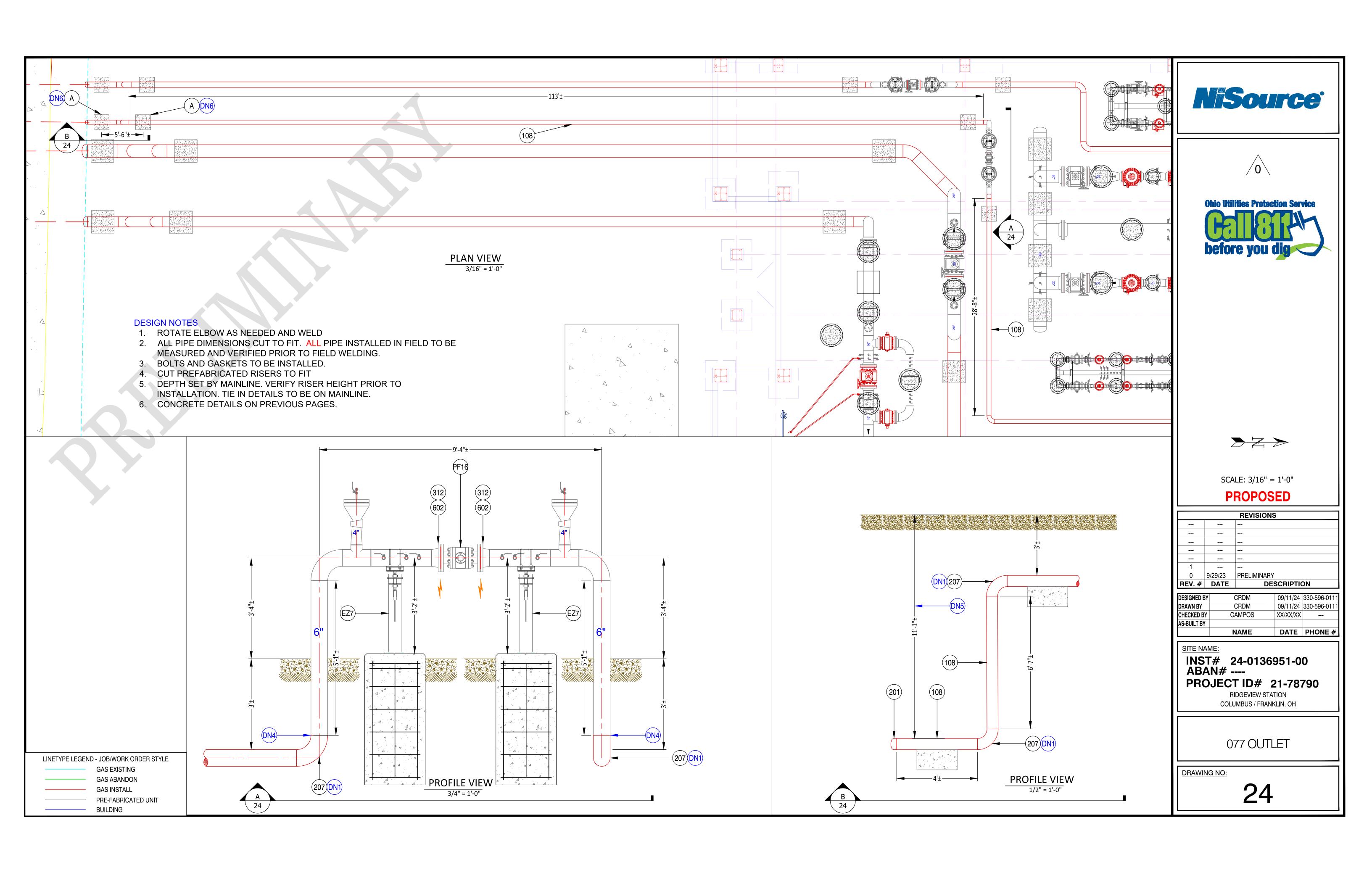


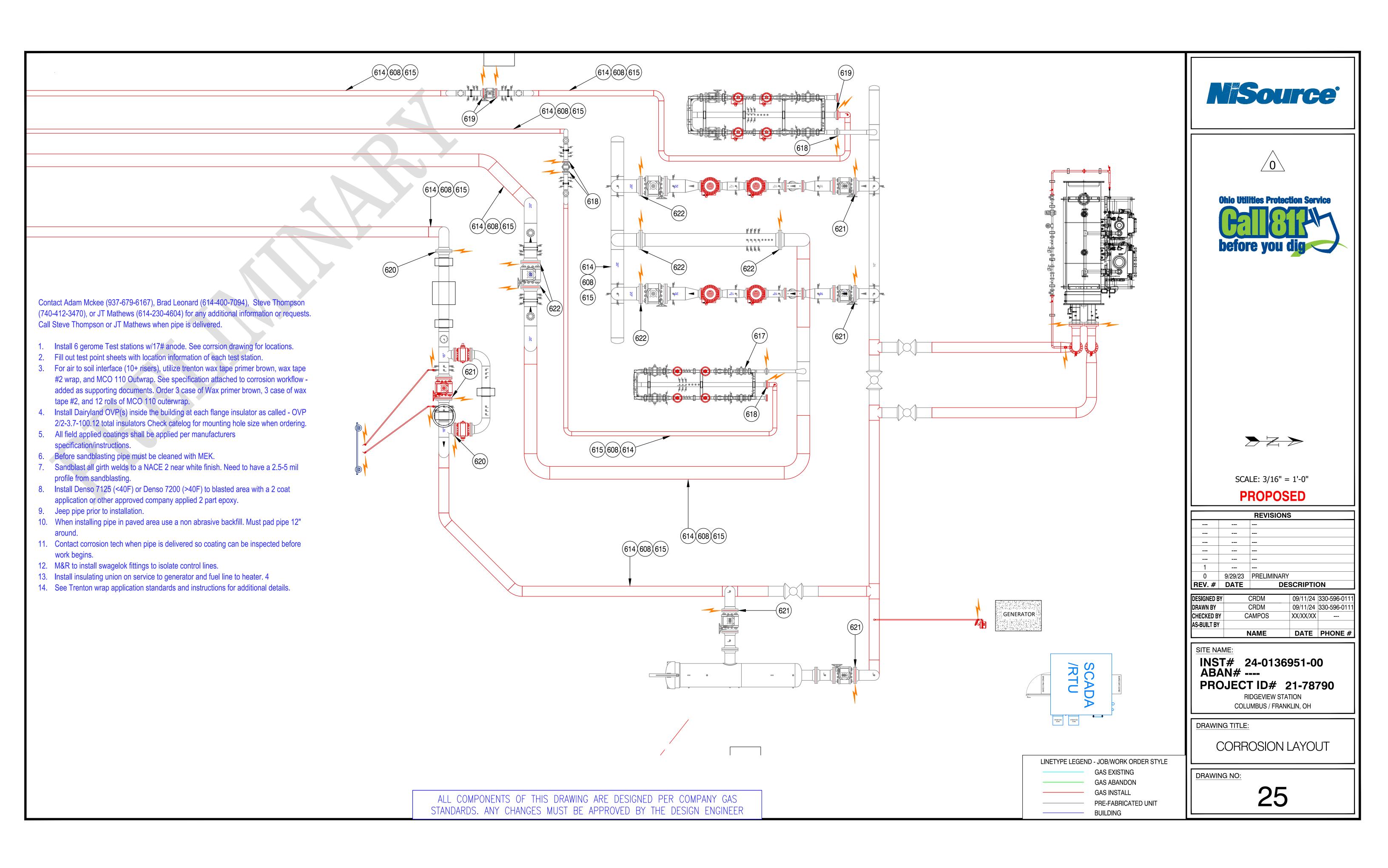


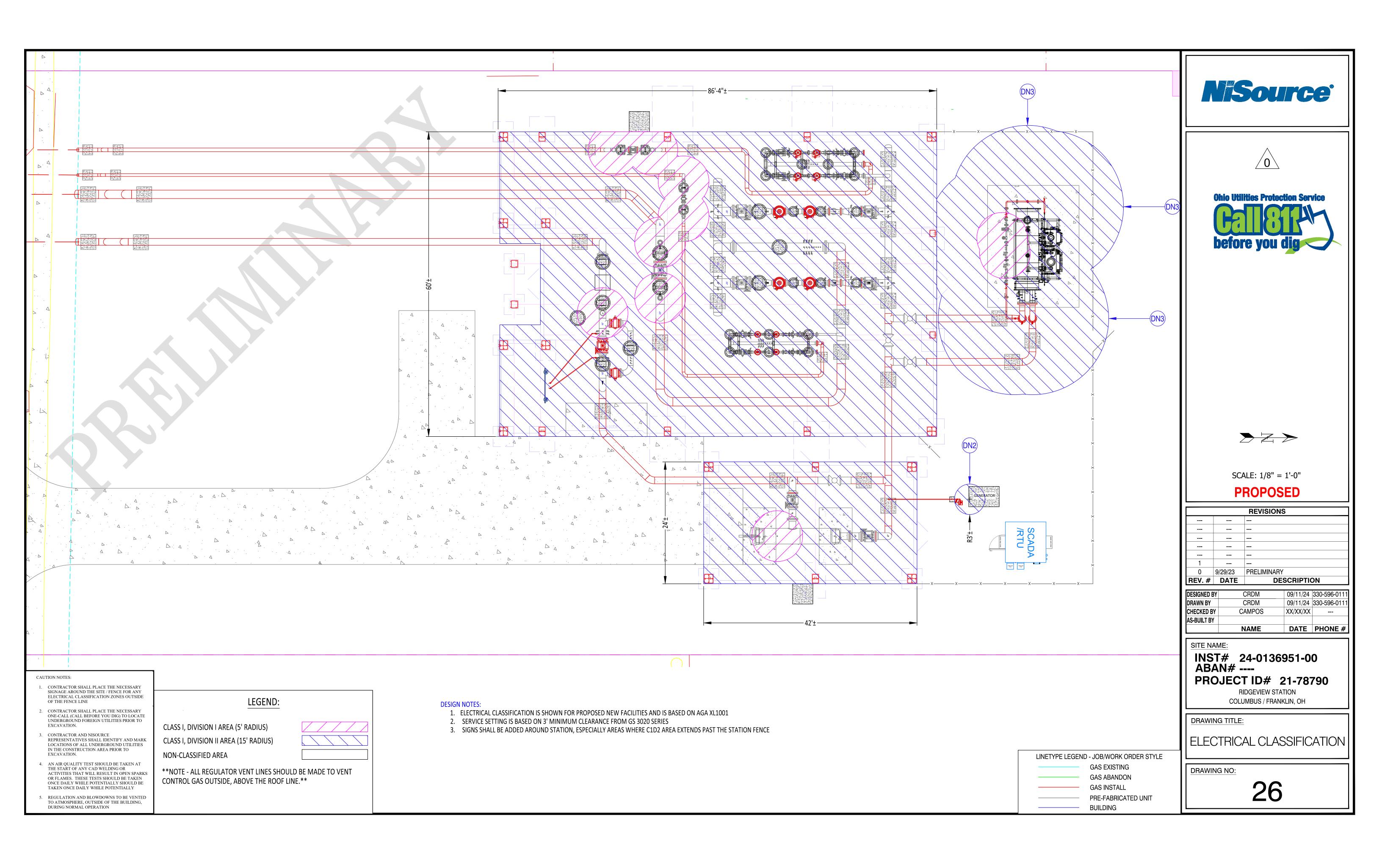


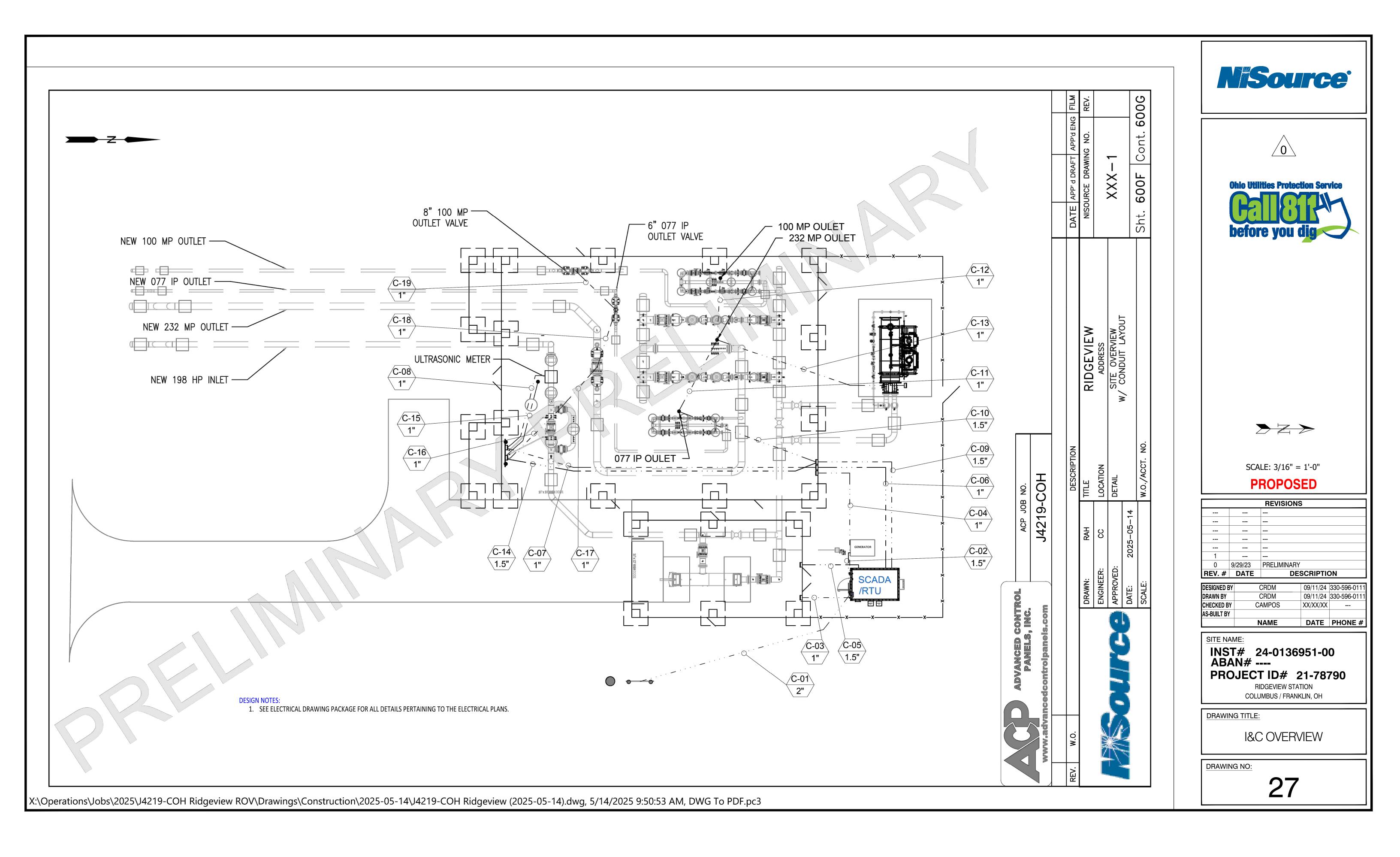












				BILL OF MATERIAL
STOCK NO.	ITEM	QTY.	SIZE	DESCRIPTION
07-42-053	101	24' MIN	1"	PIPE, 0.179" WALL, GB, BARE, SMLS, P.E., C.S., SA106 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
SPEC. ORDER	102	37' MIN	1"	PIPE, 0.179" WALL, GB, COATED, SMLS, P.E., C.S., SA106 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
SPEC. ORDER	103	24' MIN	2"	PIPE, 0.218" WALL, GB, BARE, SMLS, P.E., C.S., SA106 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
07-52-0600	107	4' MIN	6"	PIPE, 0.280" WALL, X-52, BARE, HFW, P.E., C.S., API 5L, PSL-2 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
SPEC. ORDER	108	184' MIN	6"	PIPE, 0.280" WALL, X-52, COATED, HFW, P.E., C.S., API 5L, PSL-2 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
07-52-0800	109	4' MIN	8"	PIPE, 0.322" WALL, X-52, BARE, HFW, P.E., C.S., API 5L, PSL-2 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
SPEC. ORDER	110	153' MIN	8"	PIPE, 0.322" WALL, X-52, COATED, HFW, P.E., C.S., API 5L, PSL-2 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
07-52-1200	111	20' MIN	12"	PIPE, 0.375" WALL, X-52, BARE, HFW, P.E., C.S., API 5L, PSL-2 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
SPEC. ORDER	114	228' MIN	16"	PIPE, 0.375" WALL, X-52, COATED, HFW, P.E., C.S., API 5L, PSL-2 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
SPEC. ORDER	116	169' MIN	20"	PIPE, 0.375" WALL, X-52, COATED, HFW, P.E., C.S., API 5L, PSL-2 SEE CORROSION RECOMMENDATIONS FOR COATING REQUIREMENTS
17-52-0645	201	1	6"	CAP, 0.280" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
17-52-0845	202	1	8"	CAP, 0.322" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
17-52-1645	203	1	16"	CAP, 0.375" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
17-52-2045	204	1	20"	CAP, 0.375" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
SPEC. ORDER	205	7	1"	ELBOW, 90°, LR, 0.179" WALL, GR-B, ASTM 234, B.W., C.S., ASME B16.9
17-15-089	206	4	2"	ELBOW, 90°, LR, 0.218" WALL, GR-B, ASTM 234, B.W., C.S., ASME B16.9
SPEC. ORDER	207	8	6"	ELBOW, 90°, LR, 0.280" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
SPEC. ORDER	208	9	8"	ELBOW, 90°, LR, 0.322" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
SPEC. ORDER	209	2	12"	ELBOW, 90°, LR, 0.375" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
SPEC. ORDER	210	4	16"	ELBOW, 90°, LR, 0.375" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
SPEC. ORDER	211	5	20"	ELBOW, 90°, LR, 0.375" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
SPEC. ORDER	212	2	16" x 12"	ELBOW, REDUCING, 90°, LR, 0.375" x 0.375" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
17-52-1615	213	4	16"	ELBOW, 45°, LR, SEGMENTABLE, 0.375" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
17-52-2015	214	3	20"	ELBOW, 45°, LR, SEGMENTABLE, 0.375" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
17-52-1620	215	4	16"	TEE, 0.375" WALL, Y-52, MSS SP75, B.W., C.S., ASME B16.9
17-88-028	216	3	1/2"	THREDOLET, 3,000#, C.S., GR-B, 2" THRU 2-1/2" PIPE, SA105, MSS SP97, ASME B1.20.1, BONNEY FORGE
SPEC. ORDER	218	2	1"	THREDOLET, 3,000#, C.S., F-52, 12" THRU 36" PIPE, A694, MSS SP97, ASME B1.20.1, BONNEY FORGE
SPEC. ORDER	219	1	2"	THREDOLET, 3,000#, C.S., F-52, 12" THRU 18" PIPE, A694, MSS SP97, ASME B1.20.1, BONNEY FORGE
SPEC. ORDER	220	1	1"	ELBOLET, 3,000#, C.S., F-52, 2" THRU 6" PIPE, A694, MSS SP97, ASME B1.20.1, BONNEY FORGE
SPEC. ORDER	221	1	1"	ELBOLET, 3,000#, C.S., F-52, 8" THRU 36" PIPE, A694, MSS SP97, ASME B1.20.1, BONNEY FORGE
24-02-230	222	1	1/4" x 3"	NIPPLE, PIPE, XH, CS, SMLS, ASTM A106, GR-B, T.B.E., B16.11
16-05-130	223	1	1/4"	VALVE, BALL, KF, FP, THREADED, 316 SS, S8000-M3, LOCKING HANDLE,
			,	2,000# W.O.G
26-58-410	224	1	1/4"	PLUG, HEX HEAD, 6,000#, CS, ASTM A105, GR-B, THD, B16.11
24-04-230	226	3	1/2" x 3"	NIPPLE, PIPE, XH, CS, SMLS, ASTM A106, GR-B, T.B.E., B16.11
16-05-131	227	3	1/2"	VALVE, BALL, KF, FP, THREADED, 316 SS, S8000-M3, LOCKING HANDLE, 2,000# W.O.G
26-58-420	228	3	1/2"	PLUG, HEX HEAD, 6,000#, CS, ASTM A105, GR-B, THD, B16.11
24-06-230	229	12	1" x 3"	NIPPLE, PIPE, XH, CS, SMLS, ASTM A106, GR-B, T.B.E., B16.11
16-05-132	230	7	1"	VALVE, BALL, KF, FP, THREADED, 316 SS, S8000-M3, LOCKING HANDLE, 2,000# W.O.G
26-58-430	231	6	1"	PLUG, HEX HEAD, 6,000#, CS, ASTM A105, GR-B, THD, B16.11
			•	

				BILL OF MATERIAL
STOCK NO.	ITEM	QTY.	SIZE	DESCRIPTION
SPEC. ORDER	232	2	1" x 6"	NIPPLE, PIPE, SCH. 80, CS, SMLS, ASTM A106, GR-B, THREADED x BEVEL
				B16.11
SPEC. ORDER	233	1	2" x 8"	NIPPLE, PIPE, SCH. 80, CS, SMLS, ASTM A106, GR-B, T.B.E., B16.11
SPEC. ORDER	234	1	1-1/4" x 3"	NIPPLE, PIPE, SCH. 80, CS, SMLS, ASTM A106, GR-B, T.B.E., B16.11
26-64-069	235	1	1-1/4" x 1"	REDUCER, THREADED, CONC., BLK CS, 3000#, SA105, THD, B16.11
SPEC. ORDER	236	1	2" x 1"	REDUCER, CONC., 0.218" x 0.179" WALL, GR-B, ASTM 234, B.W., C.S.,
				ASME B16.9
SPEC. ORDER	240	6	1"	INSULATED UNION, THRD, FNPT, BLK CS, SA105, 3000#, MSS SP 83
SPEC. ORDER	241	1	2"	INSULATED UNION, THRD, FNPT, BLK CS, SA105, 3000#, MSS SP 83
SPEC. ORDER	242	1	3/8" x 1/4"	BUSHING, SWAGELOK, REDUCING, 316 STAINLESS STEEL, 3/8" MALE NPT,
				1/4" FEMALE NPT, PART#: SS-6-RB-4, 6,600# MWP
44-78-006	243	1	1"	SERVICE TEE, MUELLER, WELD, CS, NO BLOW CURB VALVE TEE, H17656,
				WELD x WELD, 1,440 PSIG WP
SPEC. ORDER	244	1	1"	Y-STRAINER, TITAN, YS81-CS, THREADED, ASME CLASS 600, 1480# MWP,
				STAINLESS STEEL SCREEN, 3/8" NPT BLOWDOWN, ASME B16.11,
				STAINLESS STEEL SPIRAL WOUND GASKET, FOR GAS APPLICATION,
				OVERALL LENGTH = 4-9/16"
SPEC. ORDER	245	1	1"	REGULATOR, FISHER 627-R, 1000# W.P., DUCTILE IRON THREADED BODY,
				NITRILE DISK, 3/32" ORIFICE, , YELLOW SPRING (5#-20# RANGE),
				SET POINT = 20 PSIG, TAG FIRST CUT
48-04-100	246	1	1-1/4"	REGULATOR, ITRON, B-42R, THREADED, 3/16" ORIFICE, BUNA-N VALVE
				SEAT, 7" w.c. SET POINT, BROWN SPRING (6"w.c - 8"w.c RANGE),
				1-1/4" CAST IRON BODY, 125# W.P.
51-75-161	247	1	1-1/4"	METER, AMERICAN, AL-425TC, DIAPHRAGM, 10 PSIG MAX OPERATING
				PRESSURE, W/ ERT, 30 LT, C/L: 8-1/4"
SPEC. ORDER	5	248	1" x 10-1/2"	THERMOWELL, THR-STR-15875-125, 1" NPS x 1/2" CONN. x
				10-1/2" U LENGTH WITH 0.5 BORE, TECVALCO SUPPLIED
SPEC. ORDER	249	1	2"	METER, DRESSER, 3M, ROTARY SER. B3, 175#, F.F., ANSI 125,
				F/F: 6-3/4"
SPEC. ORDER	250	2	12"	VALVE, BALL, TRUNNION, ANSI 300, FULL PORT, CS, RFFE, CAMERON T-30
				SERIES, GROVE B5, WKM, OR VALBART EQUIV, DPE SEATS, W/HANDWHEEL,
				W/WORM GEAR, API 6D, F/F = 25-1/2", 740# W.P., SEE MRC QUOTE DE0052124-2
SPEC. ORDER	251	1	16"	VALVE, BALL, TRUNNION, ANSI 300, FULL PORT, CS, RFFE, CAMERON T-30,
				GROVE B5, WKM, OR VALBART EQUIVALENT, W/ BETTIS ACTUATOR,
				F/F = 33", W/ HYDRAULIC OVERRIDE, PROXIMITY LIMIT SWITCH,
				4 WAY SOLENOID, CONFIG. FOR REMOTE OPERATION, SEE MRC QUOTE 20240047231 REV 1
SPEC. ORDER	252	4	16"	VALVE, BALL, TRUNNION, ANSI 300, FULL PORT, CS, W.E., 24" LONG PIPE
				PUPS ON EACH END, X52, 0.375" WALL, DPE SEATS, GEAR OPERATED
				W/ HANDWHEEL, API 6D, OR EQUIV VALVE, 80" STEM EXTENSION,
				PRIMED FOR BELOW GRADE SERVICE, SEE MRC QUOTE# DE0052124-2

CTOCK NO	ITEN 4	OTV	CIZE	BILL OF MATERIAL  DESCRIPTION
STOCK NO. SPEC. ORDER	ITEM 300	QTY.	SIZE 2"	DESCRIPTION  GASKET, FULL FACE, ANSI 150, ASME B16.21, 1/8" THICK, VSP, OPRA,
or EC. UNDER	300	۷		EPTFE, TYPE 3, 3,000 PSIG, FINAL COMPRESSION THICKNESS=1/16"
SPEC. ORDER	301	8	5/8" X 1-1/2"	CAP SCREW, HEAVY HEX, FULL THREAD, ASTM 193, B7, PFTE COATED, 11 TPI, FOR 3M METER
SPEC. ORDER	302	3	2"	FLANGE, WELD NECK, R.F., ANSI 150, C.S., BORED TO 0.218" WALL, GB, ASME B16.5, SA105, DP=285 PSIG, 4 BOLTS PER FLANGE
SPEC. ORDER	303	8	5/8" x 3-3/4"	STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS, A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED
SPEC. ORDER	304	2	2"	GASKET, RING, ANSI 150, ASME B16.21, 1/16" THICK, NON-GLASS/ ASBESTOS, GARLOCK, BLUEGARD STYLE 3000, 1,000 PSIG MAX
SPEC. ORDER	305	1	2"	FLANGE, WELD NECK, R.F., ANSI 300, C.S, BORED TO 0.218" WALL, GB ASME B16.5, SA105, DP =740 PSIG, 8 BOLTS PER FLANGE
SPEC. ORDER	306	8	5/8" x 4"	STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS, A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED 2" ANSI 300 BOLT SET
SPEC. ORDER	307	1	2"	GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC, STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING
19-46-036	308	0	4"	FLANGE, WELD NECK, R.F., ANSI 300, C.S., BORED TO 0.237" WALL, F-52, ASME B16.5, A694, MSS SP 44, DP= 740 PSIG, 8 BOLTS PER FLANGE
SPEC. ORDER	309	80	3/4" x 5"	STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS, A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED
SPEC. ORDER	310	8	4"	GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC,
19-46-037	311	1	6"	STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING FLANGE, WELD NECK, R.F., ANSI 300, C.S., BORED TO 0.280" WALL, F-52, ASME B16 5, A604, MSS SB 44, DB= 740 BSIG 13 BOLTS BER ELANGE
SPEC. ORDER	312	36	3/4" x 5-1/2"	ASME B16.5, A694, MSS SP 44, DP= 740 PSIG, 12 BOLTS PER FLANGE STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,
SPEC. ORDER	313	1	6"	A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED  GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC,
19-46-038	314	1	8"	STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING FLANGE, WELD NECK, R.F., ANSI 300, C.S., BORED TO 0.322" WALL, F-52,
			7/8" x 6-1/4"	ASME B16.5, A694, MSS SP 44, DP= 740 PSIG, 12 BOLTS PER FLANGE  STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,
SPEC. ORDER	315	36		A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED
SPEC. ORDER	316	0	8"	GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC, STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING
19-46-040	317	4	12"	FLANGE, WELD NECK, R.F., ANSI 300, C.S., BORED TO 0.375" WALL, F-52, ASME B16.5, A694, MSS SP 44, DP= 740 PSIG, 16 BOLTS PER FLANGE
SPEC. ORDER	318	96	1-1/8" x 7-1/4"	STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS, A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED
SPEC. ORDER	319	5	12"	GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC, STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING
SPEC. ORDER	320	2	12"	FLANGE, WELD NECK, R.F., ANSI 600, C.S., BORED TO 0.375" WALL, F-65, ASME B16.5, A694, MSS SP 44, DP= 1,480 PSIG, 20 BOLTS PER FLANGE
SPEC. ORDER	321	40	1-1/4" x 9-1/4"	STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS, A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED
SPEC. ORDER	322	0	12"	GASKET, SPIRAL WOUND, ANSI 600, ASME B16.20, 1/8" THICK, FLEXITALLIC, STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING
19-46-041	323	0	16"	FLANGE, WELD NECK, R.F., ANSI 300, C.S., BORED TO 0.375" WALL, F-52, ASME B16.5, A694, MSS SP 44, DP= 740 PSIG, 20 BOLTS PER FLANGE
SPEC. ORDER	324	180	1-1/4" x 8-1/4"	STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS, A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED
SPEC. ORDER	325	3	16"	GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC,
SPEC. ORDER	326	0	20"	STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING FLANGE, WELD NECK, R.F., ANSI 300, C.S., BORED TO 0.375" WALL, F-52, ASMERIC F. ACOM, MSS SR 44, DR-740 RSIG 34 ROLTS REP. FLANCE
SPEC. ORDER	327	144	1-1/4" x 9"	ASME B16.5, A694, MSS SP 44, DP= 740 PSIG, 24 BOLTS PER FLANGE STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,
SPEC. ORDER	328	0	20"	A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED  GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC,
19-14-279	329	1	4"	STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING FLANGE, BLIND, R.F., ANSI 300, C.S., GB, ASME B16.5, SA105,
19-14-283	330	1	6"	DP= 740 PSIG, 8 BOLTS PER FLANGE FLANGE, BLIND, R.F., ANSI 300, C.S., GB, ASME B16.5, SA105,
19-65-224	331	0	3"	DP= 740 PSIG, 12 BOLTS PER FLANGE FLANGE, WELD NECK, R.F., ANSI 150, C.S., BORED TO 0.216" WALL, GB,
SPEC. ORDER	332	24	5/8" x 4"	ASME B16.5, SA105, DP=285 PSIG, 4 BOLTS PER FLANGE  STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,
40-73-0441	333	8	3"	A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED  GASKET, RING, ANSI 150, ASME B16.21, 1/16" THICK, NON-GLASS/
		0	10"	ASBESTOS, GARLOCK, BLUEGARD STYLE 3000, 1,000 PSIG MAX FLANGE, WELD NECK, R.F., ANSI 300, C.S., BORED TO 0.365" WALL, F-52,
19-46-039	334			ASME B16.5, A694, MSS SP 44, DP= 740 PSIG, 16 BOLTS PER FLANGE
SPEC. ORDER	335	128	1" x 7"	STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS, A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED
SPEC. ORDER	336	8	10"	GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC, STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING







# **PROPOSED**

		REVISIONS
1		
0	3/6/24	PRELIMINARY
REV.#	DATE	DESCRIPTION

	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	CAMPOS	XX/XX/XX	
DRAWN BY	CRDM	09/11/24	330-596-0111
DESIGNED BY	CRDM	09/11/24	330-596-0111

SITE NAME:

INST# 24-0136951-00 ABAN# ----PROJECT ID# 21-78790

RIDGEVIEW STATION COLUMBUS / FRANKLIN, OH

DRAWING TITLE:

BOM

DRAWING NO:

				BILL OF MATERIAL				ВІ	LL OF MATERIAL - CORROSION
STOCK NO.	ITEM	QTY.	SIZE	DESCRIPTION	STOCK NO.	ITEM	QTY.	SIZE	DESC
SPEC. ORDER	PF1	1	16"	RMV MAIN HEADER, PREFABRICATED 16", ANSI 300, DP = 275# SEE BANGS FABRICATION DRAWING FOR DETAILS	SPEC. ORDER	601	1	4"	INSULATING KIT, TYPE E, ANSI 300, C10 GAS B16.21, ONE FULLE LENGTH G10, INSULATION
SPEC. ORDER	PF2	1	12"	RMV BYPASS, PREFABRICATED 12", ANSI 300, DP = 275# SEE BANGS FABRICATION DRAWING FOR DETAILS					WASHERS, & (2) ASTM F436 HARDER WASH
SPEC. ORDER	PF3	1	16"	RMV OUTLET RISER, PREFABRICATED 16", ANSI 300, DP = 275# SEE BANGS FABRICATION DRAWING FOR DETAILS	SPEC. ORDER	602	4	6"	INSULATING KIT, TYPE E, ANSI 300, C10 GAS B16.21, ONE FULLE LENGTH G10, INSULATII
SPEC. ORDER	PF4	2	16"	FILTER VALVE, PREFABRICATED 16", ANSI 300, DP = 275#					WASHERS, & (2) ASTM F436 HARDER WASH
SPEC. ORDER	PF5	1	16"	SEE BANGS FABRICATION DRAWING FOR DETAILS  FILTER/SEPARATOR, KINGTOOL, 16" A300 FLANGES, 36" BARREL,	SPEC. ORDER	603	3	8"	GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT, TYPE E, ANSI 300, C10 GAS
SPEC. ORDER	PF6	1	12"	12" FLANGED SUMP, 285# W.P., SEE QUOTE 0524-204-R1  1.155 MBTU HEATER, CWT, 12" A600 FLANGES, 12" X-52 COIL,					B16.21, ONE FULLE LENGTH G10, INSULATII WASHERS, & (2) ASTM F436 HARDER WASH
SPEC. ORDER	PF7	1	16"	SEE QUOTE DLH-1155-7A2L-X52-LAC150 232 INLET HEADER, PREFABRICATED 16", ANSI 300, DP = 275#	SPEC. ORDER	604	1	12"	GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT, TYPE E, ANSI 300, C10 GAS
		_		SEE BANGS FABRICATION DRAWING FOR DETAILS					B16.21, ONE FULLE LENGTH G10, INSULATII
SPEC. ORDER	PF8	2	16"x10"x20"	232 TOPWORKS, PREFABRICATED, ANSI 300, DP = 275# SEE BANGS FABRICATION DRAWING FOR DETAILS					WASHERS, & (2) ASTM F436 HARDER WASH GPT, FLEXITALLIC, OR EQUIVALENT INSULAT
SPEC. ORDER	PF9	1	20"	232 OUTLET HEADER, PREFABRICATED, ANSI 300, DP = 275# SEE BANGS FABRICATION DRAWING FOR DETAILS	SPEC. ORDER	605	2	12"	INSULATING KIT, TYPE E, ANSI 600, C10 GAS B16.21, ONE FULLE LENGTH G10, INSULATII
SPEC. ORDER	PF10	1	20"	232 CONTROL SPOOL, PREFABRICATED, ANSI 300, DP = 275# SEE BANGS FABRICATION DRAWING FOR DETAILS					WASHERS, & (2) ASTM F436 HARDER WASH
SPEC. ORDER	PF11	1	6"x4"x8"	100 MP REGULATION, PREFABRICATED, ANSI 300, DP = 275# SEE BANGS FABRICATION DRAWING FOR DETAILS	SPEC. ORDER	606	6	16"	INSULATING KIT, TYPE E, ANSI 300, C10 GAS B16.21, ONE FULLE LENGTH G10, INSULATII
SPEC. ORDER	PF12	1	4"	IP INLET, PREFABRICATED, ANSI 300, DP = 275#					WASHERS, & (2) ASTM F436 HARDER WASH
SPEC. ORDER	PF13	1	4"x3"x6"	SEE BANGS FABRICATION DRAWING FOR DETAILS  IP REGULATION, PREFABRICATED, ANSI 300, DP = 232#	SPEC. ORDER	607	6	20"	GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT, TYPE E, ANSI 300, C10 GAS
SPEC. ORDER	PF14	1	20"	SEE BANGS FABRICATION DRAWING FOR DETAILS  232 OUTLET VALVE, PREFABRICATED, ANSI 300, DP = 275#					B16.21, ONE FULLE LENGTH G10, INSULATII WASHERS, & (2) ASTM F436 HARDER WASH
SPEC. ORDER	PF15	1	8"	SEE BANGS FABRICATION DRAWING FOR DETAILS  100 OUTLET VALVE, PREFABRICATED, ANSI 300, DP = 275#	42-31-217	608	6	17 LB	GPT, FLEXITALLIC, OR EQUIVALENT INSULAT ANODE, MAGNESIUM, HI POTENTIAL, W/ 10
or Ec. ONDER	11113	_		SEE BANGS FABRICATION DRAWING FOR DETAILS	42-09-925	609	20		PROFILING PETROLATUM MASTIC, DENSO, 4
SPEC. ORDER	PF16	1	6"	IP OUTLET VALVE, PREFABRICATED, ANSI 300, DP = 275#	42-11-303	610	16	4" x 100'	UTILITY TAPE, ALL-PURPOSE, DENSO
				SEE BANGS FABRICATION DRAWING FOR DETAILS	42-11-106	611	30	6" x 25'	PRIMER-INTEGRATED COLOR PETROLATUM
SPEC. ORDER	PF17	1	2"	HEATER FUEL TRAIN, PREFABRICATED, ANSI 300, DP = 275#	42-09-971	612	30		EPOXY, DENSO 7125 PROTOL, BURSH GRAD
				SEE BANGS FABRICATION DRAWING FOR DETAILS	42-09-972	613	30		EPOXY, DENSO 7200 PROTOL, BURSH GRAD
SPEC. ORDER	PF18	1	1-1/4"	METER SETTING, PREFABRICATED, PLMB-0002A DRAWING, SEE APPENDIX A FOR ADDITIONAL DETAILS	42-32-0611	614	6	3"	TEST STATION, GEROME, #107, FOR 3" CON
SPEC. ORDER	PF19	1	16"	METER, USM, FLEXIM CLAMP-ON, SEE QUOTE FOR ADDITIONAL DETAILS.	74-47-506	615	1	#12	WIRE, BLACK, SOLID, COPPER, TW WIRE, 50
SPEC. ORDER		5	16" PIPE	SUPPORT, EZ LINE, 16" PIPE, MODEL 1218, FIG. F, 120Ø CRADLE,	42-09-105	616	12		DENSO PASTE S105 5.5#TUB, WET APPLCIA
				W/ 4 SLOTTED HOLES, W/ 2 U-BOLTS, W/ I-CLIP LINER, 1218-F, D = 44"	SPEC. ORDER	617	2	4"	OVP, DAIRYLAND, 2/2-3.7-100
SPEC. ORDER	EZ2	3	12" PIPE	SUPPORT, EZ LINE, 12" PIPE, MODEL 1218, FIG. F, 120Ø CRADLE, W/ 4 SLOTTED HOLES, W/ 2 U-BOLTS, W/ I-CLIP LINER, 1218-F, D = 44"	SPEC. ORDER	618	5	6"	MOUNTING BRACKET - 4" ANSI 300 FLANGE OVP, DAIRYLAND, 2/2-3.7-100
SPEC. ORDER	EZ3	8	2" PIPE	SUPPORT, EZ LINE, 2" PIPE, MODEL 204, FIG. F, 120Ø CRADLE, W/ 4 SLOTTED HOLES, W/ 2 U-BOLTS, W/ I-CLIP LINER, 204-F, D = 38"	SPEC. ORDER	619	3	8"	MOUNTING BRACKET - 6" ANSI 300 FLANGE OVP, DAIRYLAND, 2/2-3.7-100
SPEC. ORDER	EZ4	2	10" PIPE	SUPPORT, EZ LINE, 10" PIPE, MODEL 510, FIG. F, 120Ø CRADLE, W/ 4 SLOTTED HOLES, W/ 2 U-BOLTS, W/ I-CLIP LINER, 510-F, D = 44"	SPEC. ORDER	620	3	12"	MOUNTING BRACKET - 8" ANSI 300 FLANGE OVP, DAIRYLAND, 2/2-3.7-100
SPEC. ORDER	EZ5	5	20" PIPE	SUPPORT, EZ LINE, 20" PIPE, MODEL 2024HD, FIG. F, 120Ø CRADLE			_		MOUNTING BRACKET - 12" ANSI 300 FLANG
SPEC. ORDER	EZ6	2	8" PIPE	W/ 4 SLOTTED HOLES, W/2 U-BOLTS, W/ I-CLIP LINER, 2024-F, D=44"  SUPPORT, EZ LINE, 8" PIPE, MODEL 510, FIG. F, 120Ø CRADLE,	SPEC. ORDER	621	6	16"	OVP, DAIRYLAND, 2/2-3.7-100 MOUNTING BRACKET - 16" ANSI 300 FLANG
SPEC. ORDER	EZ7	2	6" PIPE	W/ 4 SLOTTED HOLES, W/ 2 U-BOLTS, W/ I-CLIP LINER, 510-F, D = 38"  SUPPORT, EZ LINE, 6" PIPE, MODEL 510, FIG. F, 120Ø CRADLE,	SPEC. ORDER	622	4	20"	OVP, DAIRYLAND, 2/2-3.7-100  MOUNTING BRACKET - 20" ANSI 300 FLANG
				W/ 4 SLOTTED HOLES, W/ 2 U-BOLTS, W/ I-CLIP LINER, 510-F, D = 38"	SPEC. ORDER	623	3 CASES		TRENTON WAX TAPE, PRIMER BROWN, SEE
		1	1	, , , , , , , , , , , , , , , , , , ,	SPEC. ORDER	624	3 CASES		TRENTON WAX TAPE # 2 BROWN, SEE APPE
					SPEC. ORDER	625	12 ROLLS		TRENTON MCO 110 OUTER WRAP, SEE APP
					SPEC. ORDER	626	3	2"	FLANGE PROTECTOR, STAINLESS STEEL, ADV
								_	316L, ANSI 150, SSFP-02-150, (1/4 CART./FL
					SPEC. ORDER	627	8	2"	FLANGE PROTECTOR, STAINLESS STEEL, ADV

STOCK NO.	ITEM	QTY.	SIZE	DESCRIPTION
SPEC. ORDER	601	1	4"	INSULATING KIT, TYPE E, ANSI 300, C10 GASKET W/ VITON SEAL, ASME
				B16.21, ONE FULLE LENGTH G10, INSULATING SLEEVE, TWO INSULATING
				WASHERS, & (2) ASTM F436 HARDER WASHERS P/BOLTS, ASME B16.5,
DEC ODDED	602	4	CII	GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT
PEC. ORDER	602	4	6"	INSULATING KIT, TYPE E, ANSI 300, C10 GASKET W/ VITON SEAL, ASME
				B16.21, ONE FULLE LENGTH G10, INSULATING SLEEVE, TWO INSULATING
				WASHERS, & (2) ASTM F436 HARDER WASHERS P/BOLTS, ASME B16.5,
				GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT
PEC. ORDER	603	3	8"	INSULATING KIT, TYPE E, ANSI 300, C10 GASKET W/ VITON SEAL, ASME
				B16.21, ONE FULLE LENGTH G10, INSULATING SLEEVE, TWO INSULATING
				WASHERS, & (2) ASTM F436 HARDER WASHERS P/BOLTS, ASME B16.5,
				GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT
PEC. ORDER	604	1	12"	INSULATING KIT, TYPE E, ANSI 300, C10 GASKET W/ VITON SEAL, ASME
				B16.21, ONE FULLE LENGTH G10, INSULATING SLEEVE, TWO INSULATING
				WASHERS, & (2) ASTM F436 HARDER WASHERS P/BOLTS, ASME B16.5,
				GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT
PEC. ORDER	605	2	12"	INSULATING KIT, TYPE E, ANSI 600, C10 GASKET W/ VITON SEAL, ASME
				B16.21, ONE FULLE LENGTH G10, INSULATING SLEEVE, TWO INSULATING
				WASHERS, & (2) ASTM F436 HARDER WASHERS P/ BOLTS, ASME B16.5,
				GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT
PEC. ORDER	606	6	16"	INSULATING KIT, TYPE E, ANSI 300, C10 GASKET W/ VITON SEAL, ASME
I LC. ONDLN	000		10	B16.21, ONE FULLE LENGTH G10, INSULATING SLEEVE, TWO INSULATING
				WASHERS, & (2) ASTM F436 HARDER WASHERS P/ BOLTS, ASME B16.5,
DEC OPPER	CO7		2011	GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT
PEC. ORDER	607	6	20"	INSULATING KIT, TYPE E, ANSI 300, C10 GASKET W/ VITON SEAL, ASME
				B16.21, ONE FULLE LENGTH G10, INSULATING SLEEVE, TWO INSULATING
				WASHERS, & (2) ASTM F436 HARDER WASHERS P/ BOLTS, ASME B16.5,
				GPT, FLEXITALLIC, OR EQUIVALENT INSULATING KIT
42-31-217	608	6	17 LB	ANODE, MAGNESIUM, HI POTENTIAL, W/ 10' OF #12 RED LEAD WIRE
42-09-925	609	20		PROFILING PETROLATUM MASTIC, DENSO, 4 LB BLK
42-11-303	610	16	4" x 100'	UTILITY TAPE, ALL-PURPOSE, DENSO
42-11-106	611	30	6" x 25'	PRIMER-INTEGRATED COLOR PETROLATUM TAPE, GRAY, DENSO, 48 MILLS
42-09-971	612	30		EPOXY, DENSO 7125 PROTOL, BURSH GRADE, TWO PART EPOXY, 1L KIT
42-09-972	613	30		EPOXY, DENSO 7200 PROTOL, BURSH GRADE, TWO PART EPOXY, 1L KIT
42-32-0611	614	6	3"	TEST STATION, GEROME, #107, FOR 3" CONDUIT W/ COL. GAS EMBLEM
				5 TERM
74-47-506	615	1	#12	WIRE, BLACK, SOLID, COPPER, TW WIRE, 500' SPOOL
42-09-105	616	12		DENSO PASTE S105 5.5#TUB, WET APPLCIATION PASTE
SPEC. ORDER	617	2	4"	OVP, DAIRYLAND, 2/2-3.7-100
				MOUNTING BRACKET - 4" ANSI 300 FLANGE
SPEC. ORDER	618	5	6"	OVP, DAIRYLAND, 2/2-3.7-100
			-	MOUNTING BRACKET - 6" ANSI 300 FLANGE
SPEC. ORDER	619	3	8"	OVP, DAIRYLAND, 2/2-3.7-100
OF EC. ONDEN	019		U	MOUNTING BRACKET - 8" ANSI 300 FLANGE
SPEC. ORDER	620	3	12"	OVP, DAIRYLAND, 2/2-3.7-100
JEC. UNDEK	020	)	12	
CDEC OBDES	C24		4.011	MOUNTING BRACKET - 12" ANSI 300 FLANGE
SPEC. ORDER	621	6	16"	OVP, DAIRYLAND, 2/2-3.7-100
				MOUNTING BRACKET - 16" ANSI 300 FLANGE
SPEC. ORDER	622	4	20"	OVP, DAIRYLAND, 2/2-3.7-100
				MOUNTING BRACKET - 20" ANSI 300 FLANGE
SPEC. ORDER	623	3 CASES		TRENTON WAX TAPE, PRIMER BROWN, SEE APPENDIX C FOR DETAILS
SPEC. ORDER	624	3 CASES		TRENTON WAX TAPE # 2 BROWN, SEE APPENDIX C FOR DETAILS
SPEC. ORDER	625	12 ROLLS		TRENTON MCO 110 OUTER WRAP, SEE APPENDIX C FOR DETAILS
SPEC. ORDER	626	3	2"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,
				316L, ANSI 150, SSFP-02-150, (1/4 CART./FLG)
SPEC. ORDER	627	8	2"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,
				316L, ANSI 300, SSFP-02-300, (1/4 CART./FLG)
SPEC. ORDER	628	8	3"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,
I. IO ONDER			•	316L, ANSI 150, SSFP-03-150, (1/2 CART./FLG)
SPEC. ORDER	629	22	4"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,
JEC. UKUEK	029		4	316L, ANSI 300, SSFP-04-300, (1/2 CART./FLG)
CDEC ODDED	(20	10	6"	
SPEC. ORDER	630	19	b''	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,
	_			316L, ANSI 300, SSFP-06-300, (3/4 CART./FLG)
SPEC. ORDER	631	8	8"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,
				316L, ANSI 300, SSFP-08-300, (1 CART./FLG)
SPEC. ORDER	632	12	10"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,
				316L, ANSI 300, SSFP-10-300, (1 CART./FLG)
SPEC. ORDER	633	6	12"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,
				316L, ANSI 300, SSFP-12-300, (1-1/2 CART./FLG)
	60.4	2	12"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,
SPEC. ORDER	634	<u> </u>	12	TEANOL FROTECTOR, STAINLESS STELL, ADVANCE FRODUCTS, SERIES 7100,

BILL OF MATERIAL - CORROSION						
STOCK NO.	ITEM	QTY.	SIZE	DESCRIPTION		
SPEC. ORDER	635	13	16"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,		
				316L, ANSI 300, SSFP-16-300, (2 CART./FLG)		
SPEC. ORDER	636	8	20"	FLANGE PROTECTOR, STAINLESS STEEL, ADVANCE PRODUCTS, SERIES 7100,		
				316L, ANSI 300, SSFP-20-300, (2-3/4 CART./FLG)		
SPEC. ORDER	637	1	120 LB DRUM	GREASE, ADVANCED KLEERGEL, CORROSION INHIBITING		

BILL OF MATERIAL - PRESSURE TESTING MATERIALS

DP=285 PSIG, 4 BOLTS PER FLANGE

DP= 740 PSIG, 8 BOLTS PER FLANGE

DP= 740 PSIG, 8 BOLTS PER FLANGE

DP= 740 PSIG, 12 BOLTS PER FLANGE

DP= 740 PSIG, 12 BOLTS PER FLANGE

DP= 1,480 PSIG, 20 BOLTS PER FLANGE

DP= 740 PSIG, 16 BOLTS PER FLANGE

DP= 740 PSIG, 24 BOLTS PER FLANGE

FLANGE, BLIND, R.F., ANSI 150, C.S., GB, ASME B16.5, SA105,

A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED

STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,

A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED

STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,

A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC,

STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING

A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC,

STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING

A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED

STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,

A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED GASKET, SPIRAL WOUND, ANSI 600, ASME B16.20, 1/8" THICK, FLEXITALLIC,

STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING

STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,

A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC,

STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING

A194, BOLTS (FTF), NUTS, AND WASHERS (IF REQ'D) TO BE PTFE COATED

GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC,

STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING

GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC, STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING

GASKET, SPIRAL WOUND, ANSI 300, ASME B16.20, 1/8" THICK, FLEXITALLIC, STYLE CGI, OUTER RING C.S., INNER RING 316L, 316L/FLEXICARB WINDING

GASKET, RING, ANSI 150, ASME B16.21, 1/16" THICK, NON-GLASS/

ASBESTOS, GARLOCK, BLUEGARD STYLE 3000, 1,000 PSIG MAX FLANGE, BLIND, R.F., ANSI 300, C.S., GB, ASME B16.5, SA105,

FLANGE, BLIND, R.F., ANSI 300, C.S., GB, ASME B16.5, SA105,

FLANGE, BLIND, R.F., ANSI 300, C.S., GB, ASME B16.5, SA105,

FLANGE, BLIND, R.F., ANSI 300, C.S., GB, ASME B16.5, SA105,

FLANGE, BLIND, R.F., ANSI 600, C.S., GB, ASME B16.5, SA105,

FLANGE, BLIND, R.F., ANSI 300, C.S., GB, ASME B16.5, SA105,

FLANGE, BLIND, R.F., ANSI 300, C.S., GB, ASME B16.5, SA105,

1-1/4" x 9" STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,

UNION, THRD, FNPT, BLK CS, SA105, 3000#, MSS SP 83

UNION, THRD, FNPT, BLK CS, SA105, 3000#, MSS SP 83

CAP, THREADED, 3000#, C.S., ASTM A105, GRADE B, THD, B16.11

PLUG, HEX HEAD, 6,000#, CS, ASTM A105, GR-B, THD, B16.11

3/4" x 5-1/2" STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,

7/8" x 6-1/4" STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,

5/8" x 3-3/4" STUD BOLT, A-193, GRADE B7, THREADED ENTIRE LENGTH, W 2-2H NUTS,

DESCRIPTION

ITEM QTY.

T1 1

T3 3

T4 1

3/4" x 5"

1-1/4" x 9-1/4"

1-1/4" x 8-1/4"

1-1/4"

1-1/4"

STOCK NO.

19-14-071

40-73-0321

19-14-271

19-14-279

SPEC. ORDER | T2 | 8

SPEC. ORDER T5 16

SPEC. ORDER T6 3

SPEC. ORDER | T8 | 16

SPEC. ORDER T9 3

19-14-283 T10 4

SPEC. ORDER | T11 | 60

SPEC. ORDER T12 6

SPEC. ORDER T14 48

SPEC. ORDER | T15 | 5

SPEC. ORDER T17 60

SPEC. ORDER T18 4

19-14-295 T19 4

SPEC. ORDER T20 80

SPEC. ORDER T21 6

19-14-299 T22 3

SPEC. ORDER T23 96

SPEC. ORDER T24 5

26-87-027 T25 1

SPEC. ORDER T27 2

26-58-430 T28 1

T26 1

26-87-043

19-14-531 T16 2

T13 3

19-14-287

# NSource<sup>®</sup>





**PROPOSED** 

REVISIONS					
1					
0	3/6/24	PRELIMINARY			
REV.#	DATE	DESCRIPTION			

	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	CAMPOS	XX/XX/XX	
DRAWN BY	CRDM	09/11/24	330-596-0111
DESIGNED BY	CRDM	09/11/24	330-596-0111

SITE NAME:

INST# 24-0136951-00 **ABAN#** ----PROJECT ID# 21-78790

> RIDGEVIEW STATION COLUMBUS / FRANKLIN, OH

DRAWING TITLE:

BOM 2

DRAWING NO:

Mounting Height: various Reflectance: Outdoors

Date:6/11/2025 Page 1 of 10 Workplane: n/a Point Spacing: 5'



Farmingdale, NJ (732) 919-3119

Luminaire Schedule								
Symbol	Qty	Label	Description	LLF	LLD	LDD	Lumens	Mnt Ht
<del>-</del>	9	LPD3C4D2P	2' Linear	0.950	0.950	1.000	3691	9
+	1	LPD3C4M2P	4' Linear	0.950	0.950	1.000	7135	13

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Back Entrance	Illuminance	Fc	1.49	6.9	0.0	N.A.	N.A.
Back of Garage	Illuminance	Fc	2.99	8.1	0.3	9.97	27.00
Entrance	Illuminance	Fc	2.32	7.5	0.1	23.20	75.00
Garage Entrance	Illuminance	Fc	2.69	11.0	0.1	26.90	110.00
Garage Side	Illuminance	Fc	1.96	8.0	0.1	19.60	80.00
North Side	Illuminance	Fc	1.03	7.7	0.0	N.A.	N.A.
Between House and Garage	Illuminance	Fc	5.41	11.0	1.3	4.16	8.46

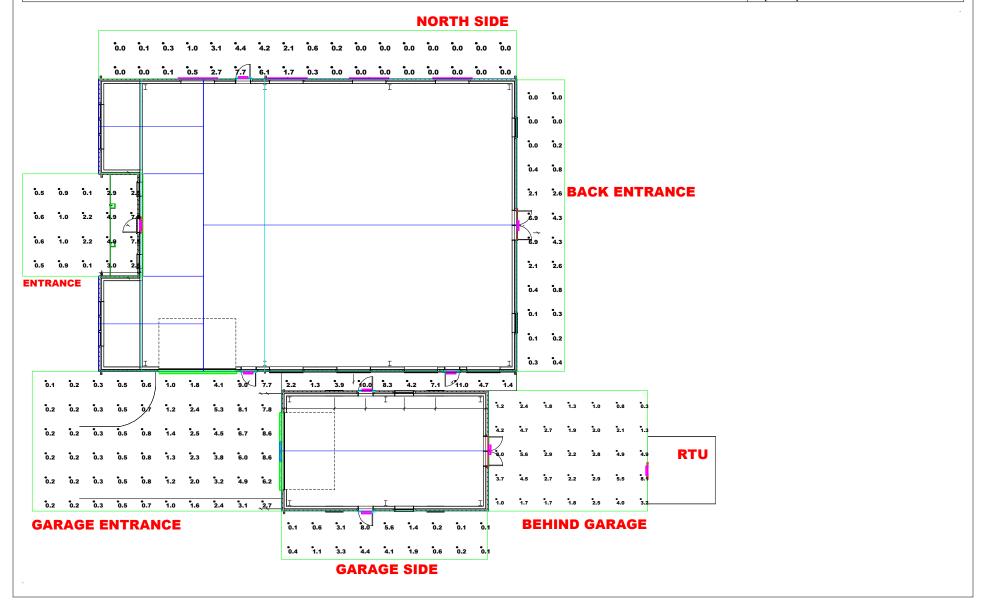
Lumen and wattage values are typical, with a tolerance of +/- 10%. All designs and information provided are based upon Dialight's interpretation of information provided by the client or accepted by the client at the time. It remains the responsibility of the client to determine that the design is fit for purpose and that the parameters of the design are maintained to ensure continued compliance. This includes, but is not limited to: light fixture positions, quantities and mounting heights, room conditions (such as reflectance's and equipment locations if considered at the time), use and supplementary task lighting if used. Dialight cannot accept responsibility in respect of the design provided if these design parameters are not maintained and shall in no way be liable to the client or to any third parties for any direct, indirect or consequential damage, loss or expense arising from any defect in the design, or arising from the actual design provided, save where such damage, loss or expense arises as a result of Dialight's negligence.

This design and the information provided is done so in confidence, for the sole purpose of the recipient and may not be disclosed to any non-related third party or used for any other purpose without the express written permission of Dialight.

Mounting Height: various Reflectance: Outdoors

Date:6/11/2025 Page 2 of 10 Workplane: n/a Point Spacing: 5'

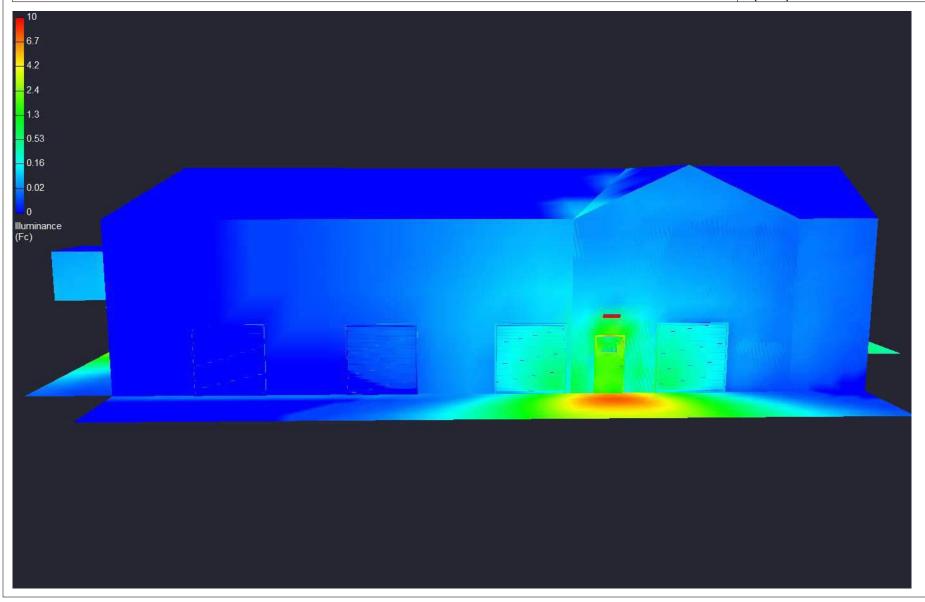




Mounting Height: various Reflectance: Outdoors

Date:6/11/2025 Page 3 of 10 Workplane: n/a Point Spacing: 5'

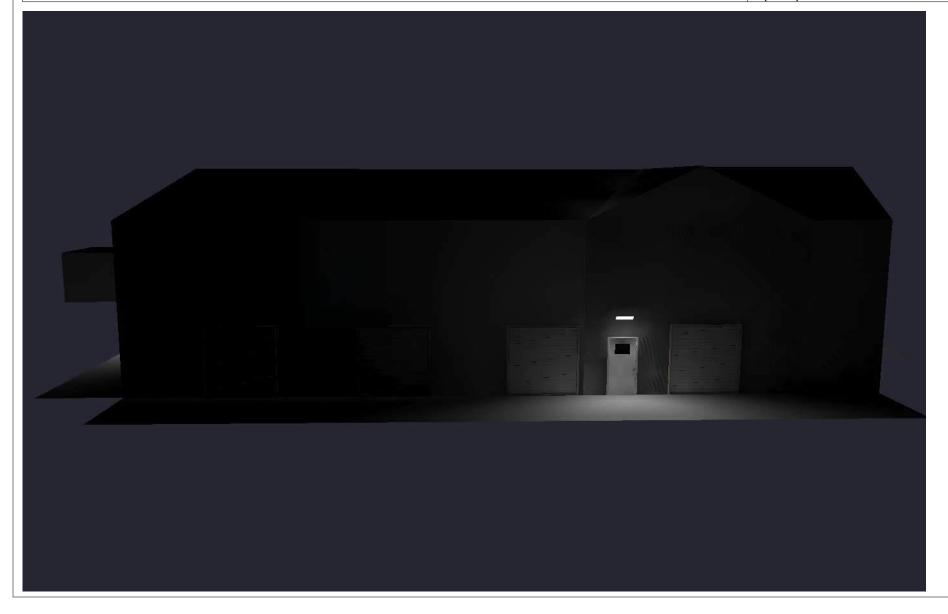




Mounting Height: various Reflectance: Outdoors

Date:6/11/2025 Page 4 of 10 Workplane: n/a Point Spacing: 5'

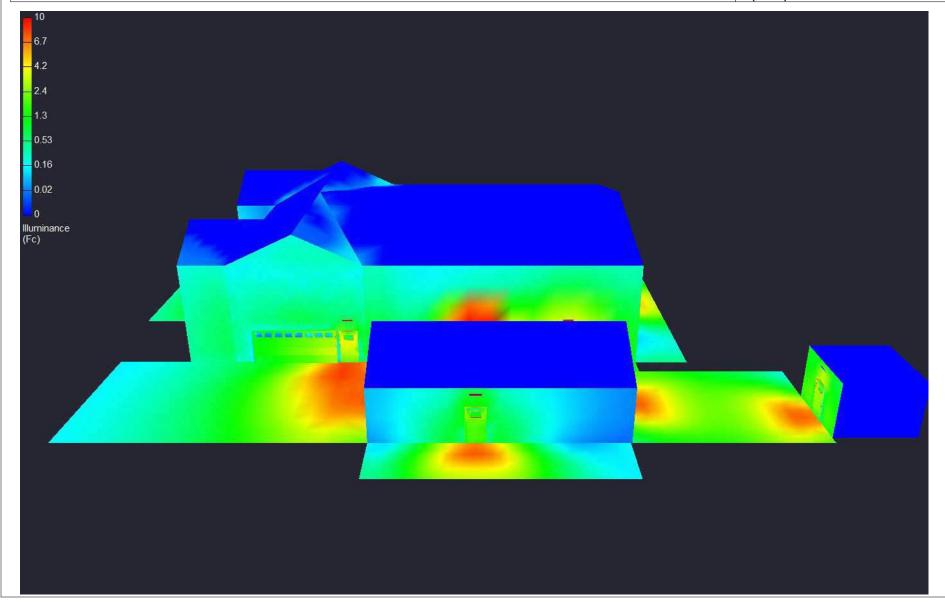




Mounting Height: various Reflectance: Outdoors

Date:6/11/2025 Page 5 of 10 Workplane: n/a Point Spacing: 5'

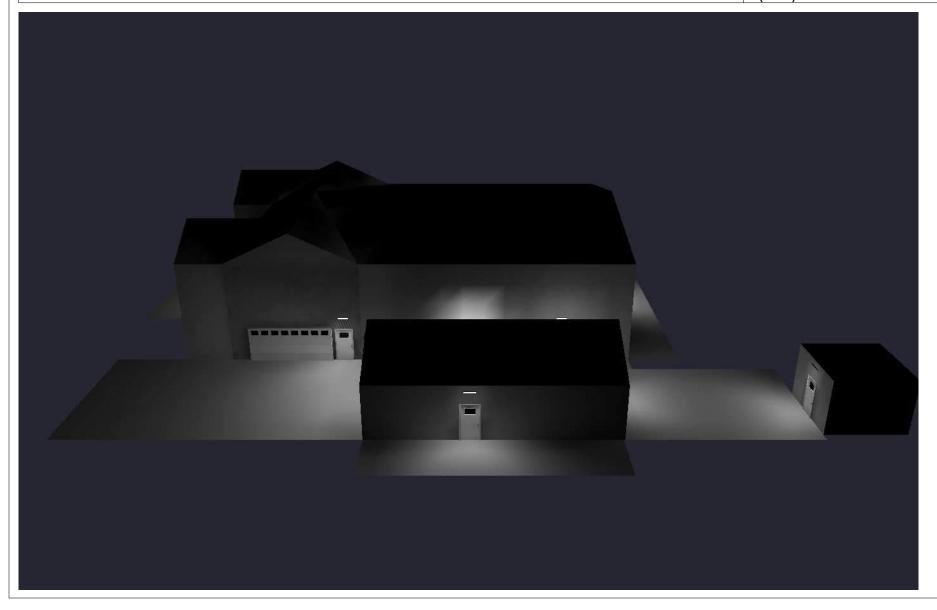




Mounting Height: various Reflectance: Outdoors

Date:6/11/2025 Page 6 of 10 Workplane: n/a Point Spacing: 5'





Mounting Height: various Reflectance: Outdoors

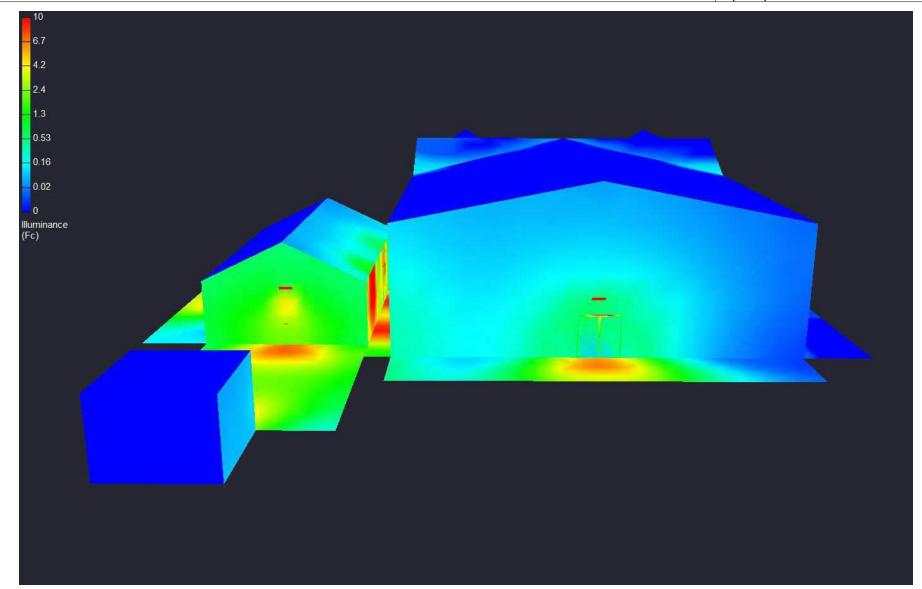
Date:6/11/2025 Page 7 of 10

Workplane: n/a Point Spacing: 5'



**Dialight Corporation** 

Farmingdale, NJ (732) 919-3119



Mounting Height: various Reflectance: Outdoors

Date:6/11/2025 Page 8 of 10 Workplane: n/a Point Spacing: 5'



Farmingdale, NJ (732) 919-3119

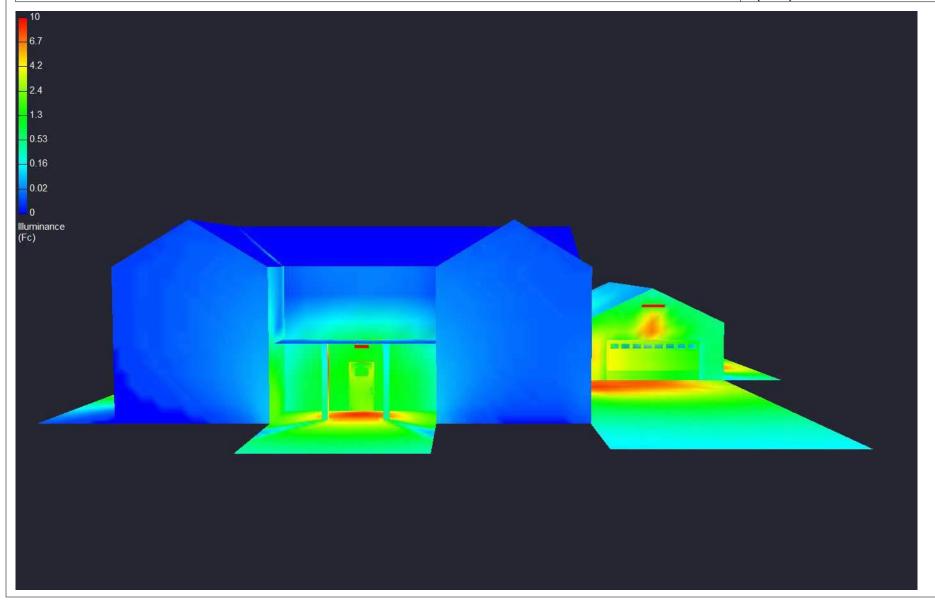


Mounting Height: various Reflectance: Outdoors

Date:6/11/2025 Page 9 of 10 Workplane: n/a Point Spacing: 5'



Farmingdale, NJ (732) 919-3119

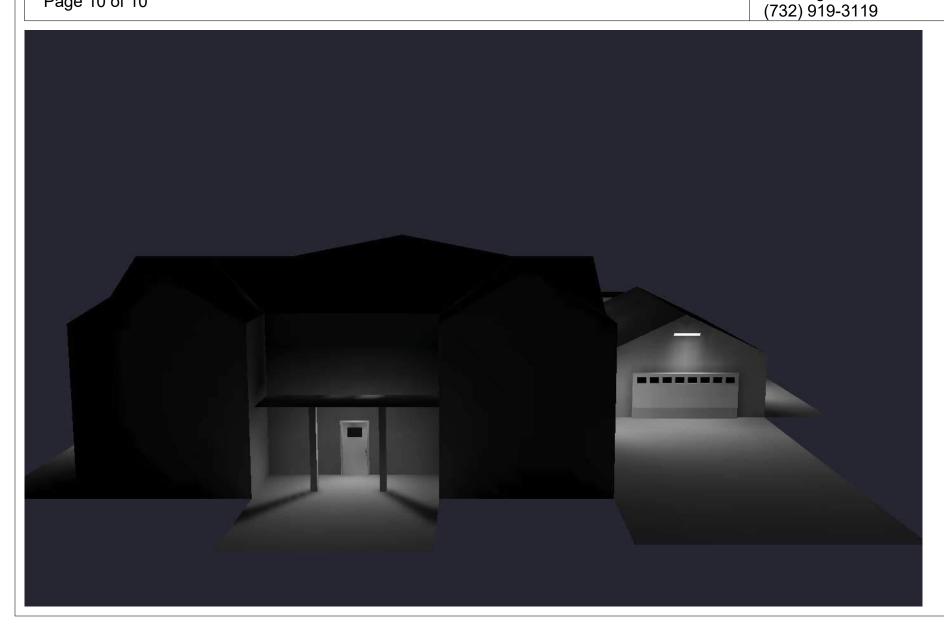


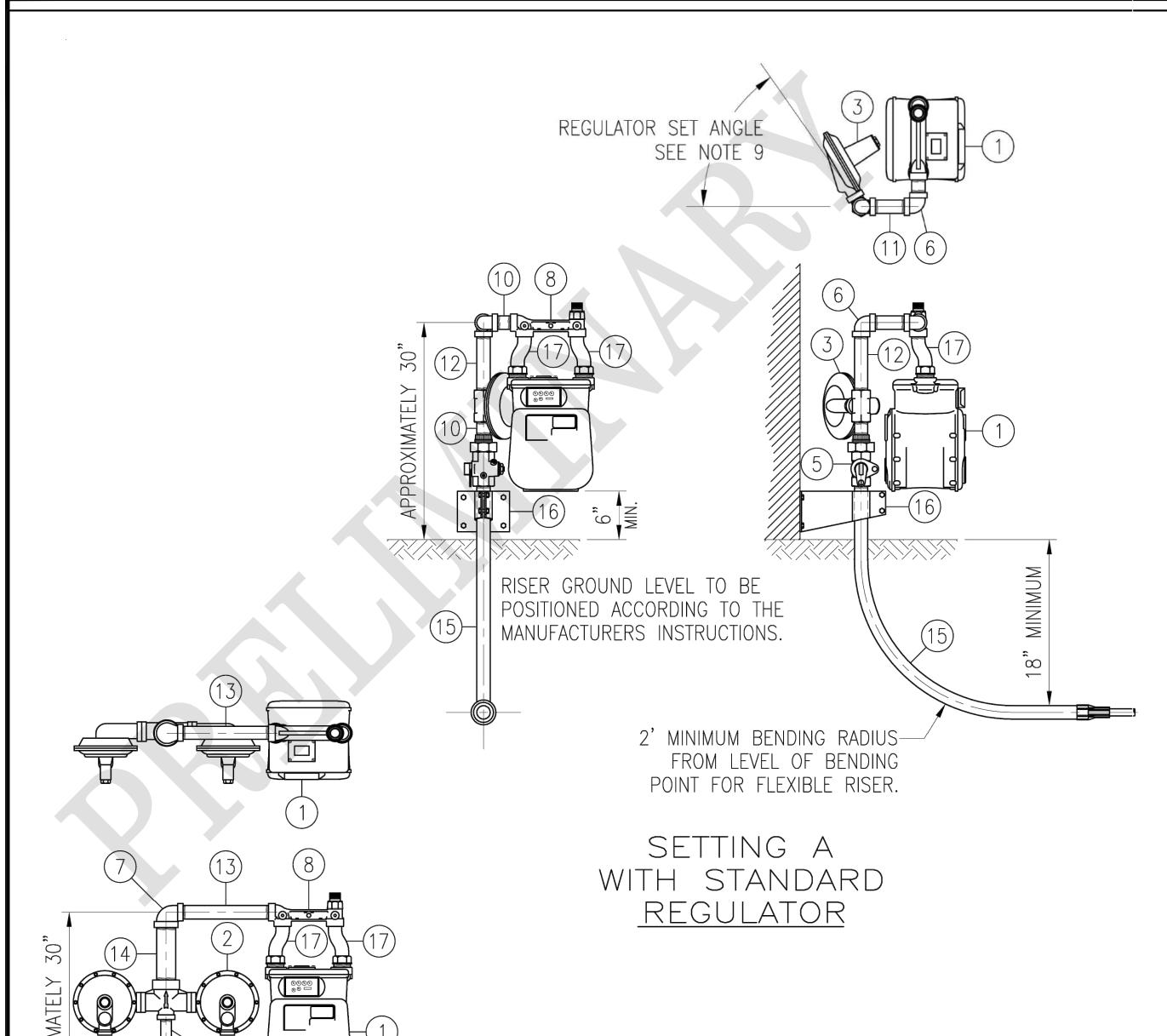
Mounting Height: various Reflectance: Outdoors

Date:6/11/2025 Page 10 of 10 Workplane: n/a Point Spacing: 5'



Farmingdale, NJ





THE STANDARD DRAWING DEPICTED HERE HAS BEEN DESIGNED IN ACCORDANCE WITH USDOT PIPELINE SAFETY STANDARDS SET FORTH AT 49 CFR PART 192, AND THE REQUIREMENTS OF NFPA 54. DEVIATION FROM THIS DRAWING, EITHER IN MATERIALS OR SPECIFICATIONS, WITHOUT THE WRITTEN APPROVAL OF THE NISOURCE INC. DESIGN ENGINEER IS NOT AUTHORIZED, AND NISOURCE, INC. WIL CONSULTED FOR PROPER INSTALLATION AND/OR TESTING OF THIS FACILITY, AND NEITHER NISOURCE, INC. NOR ANY AFFILIATE OR SUBSIDIARY OF NISOURCE, INC.

**Resource** 

NiSource Energy Distribution

RISER GROUND LEVEL TO BE

SETTING B

WITH 1" X 2"

REGULATOR

POSITIONED ACCORDING TO THE

MANUFACTURERS INSTRUCTIONS.

400 AN	ND 630	CLASS	MEIER	3
WN ARTLEY-CLARK	DATE 5-25-05	DRAWING NO. PLMB-	-0002	ISS
CKED	DATE	SHEET NO.	f 2	$ $ $\angle$

OUTSIDE METER SETTING USING

#### BILL OF MATERIAL SET & QTY SIZE DESCRIPTION 1 1/4" METER, DIAPHRAM, TO BE PROVIDED BY COLUMBIA GAS (METER BAR: 44-11-080) 1" X 2" REGULATOR, INTERNAL MONITOR, TO BE PROVIDED BY COLUMBIA GAS 1 1/4" REGULATOR, INTERNAL RELIEF, TO BE PROVIDED BY COLUMBIA GAS VALVE, METER STOP, INSULATED UNION, LOCKWING, USE ONLY APPROVED MFG. 1 1/4" VALVE, METER STOP, INSULATED UNION, LOCKWING, USE ONLY APPROVED MFG. 1 1/4" ELBOW, 90 DEG., THREADED, MALLEABLE IRON, STANDARD, CLASS 150 2" X 1 1/4" ELBOW, REDUCING, 90 DEG., THREADED, MALLEABLE IRON, STANDARD, CLASS 150 1 1/4" METER BAR, WITH INSULATED UNION OUTLET, USE ONLY APPROVED MANUFACTURERS 1" X 4" NIPPLE, PIPE, STEEL, GRADE B, EX. HVY., THREAD BOTH ENDS 1 1/4" X 3" NIPPLE, PIPE, STEEL, GRADE B, EX. HVY., THREAD BOTH ENDS 1 1/4" X 5" NIPPLE, PIPE, STEEL, GRADE B, EX. HVY., THREAD BOTH ENDS 1 1/4" X 8" NIPPLE, PIPE, STEEL, GRADE B, EX. HVY., THREAD BOTH ENDS 1 1/4" X 12" NIPPLE, PIPE, STEEL, GRADE B, EX. HVY., THREAD BOTH ENDS 2" X 8" NIPPLE, PIPE, STEEL, GRADE B, THREAD BOTH ENDS

WHEN SPECIFYING THE 2" B-34-IMR, USE SETTING "A" BILL OF MATERIALS, AND SUBSITUTE (1) ITEM 10 & (1) ITEM 12 WITH THE FOLLOWING ITEMS

SWIVEL, METER OFFSET, MALLEABLE IRON WITH 30LT NUT

RISER, APPROVED ANODELESS, STUB OR ENCASED OR FLEX CASING PRE-BENT STEEL

1C	1	1" X 2"	NIPPLE, PIPE, STEEL, GRADE B, EX. HEAVY, THREAD BOTH ENDS
2C	2	2" X 4"	NIPPLE, PIPE, STEEL, GRADE B, THREAD BOTH ENDS
3C	1	2" X 1"	REDUCER, THREADED, MALLEABLE IRON, STANDARD, CLASS 150

RISER BRACKET

# NOTES

- 1. REFER TO COLUMBIA GAS STANDARDS FOR CUSTOMER SERVICE LINES, METERS, AND SERVICE REGULATORS (PLUMBER'S GUIDE) FOR PROPER METER SET INSTALLATION INSTRUCTIONS.
- 2. APPROVED METER SUPPORT MUST BE USED.

SEE NOTE 7

SEE NOTE 7

1 1/4"

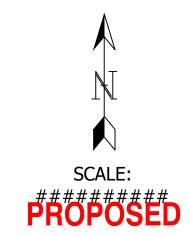
- 3. IF THE SERVICE LINE IS STEEL, CONTACT COLUMBIA GAS PERSONNEL FOR SPECIFIC INSTALLATION INSTRUCTIONS.
- 4. PREFABRICATED RISERS AND BRACKETS MUST BE INSTALLED AND SECURED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 5. THE METER MUST BE INSTALLED IN A LEVEL POSITION.
- 6. NO SCREW FITTINGS ARE TO BE USED BELOW GROUND.
- 7. THESE ITEMS MUST BE APPROPRIATELY SIZED FOR THE SPECIFIC CONDITIONS.
- 8. WHEN MEASURING FROM A LOW PRESSURE SYSTEM, THE REGULATOR (ITEM 3) & 2 PIPE NIPPLES (ITEMS 11 & 13) ARE REPLACED WITH A SINGLE PIPE NIPPLE 13 5/8" LONG.
- 9. REGULATOR ASSEMBLY SET ANGLE IS 60° FOR 4" DIAPHRAGM AND 70° FOR 6" DIAPHRAGM.

L.HARTLEY-CLARK	5-25-05	PLMB-0002	IS
CHECKED	DATE	SHEET NO. 2	









**REVISIONS** --- |---9/29/23 PRELIMINARY REV. # DATE DESCRIPTION

	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	CAMPOS	XX/XX/XX	
DRAWN BY	CRDM	09/11/24	330-596-0111
DESIGNED BY	CRDM	09/11/24	330-596-0111

SITE NAME:

**DRAWING TITLE:** 

INST# 24-0136951-00 **ABAN#** ----

PROJECT ID# 21-78790 **RIDGEVIEW STATION** 

COLUMBUS / FRANKLIN, OH

PLMB-0002A



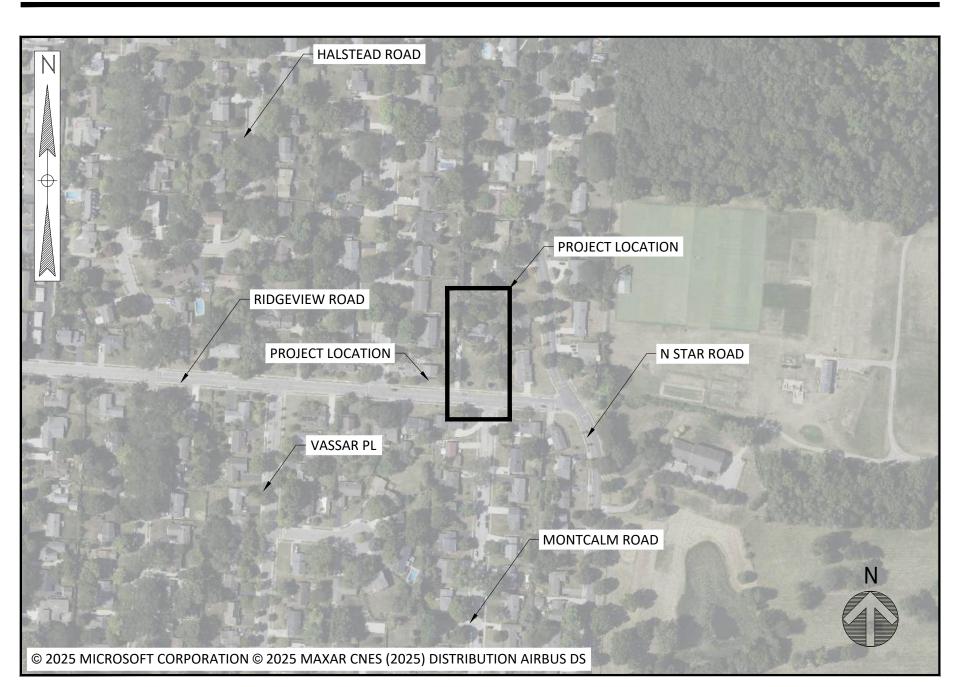


A NiSource Company

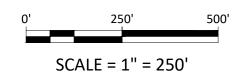
# INSTALLATION ORDER NUMBER 24-0136951-00 PROJECT ID 21-78790 SITE IMPROVEMENT

JOB TYPE: 000

**VICINITY MAP** 



**VICINITY MAP (NTS)** 



# **SHEET INDEX**

OHEET INDEX			
DWG.	DESCRIPTION		
T-01	TITLE SHEET		
C-01	GENERAL NOTES		
C-02	GENERAL NOTES		
C-03	EXISTING CONDITIONS & DEMO PLAN		
C-04	SITE PLAN		
C-05	GRADING PLAN		
C-06	PROFILES & DETAILS		
C-07	PROFILES & DETAILS		
C-08	EROSION CONTROL PLAN NOTES		
C-09	EROSION CONTROL PLAN NOTES		
C-10	EROSION CONTROL PLAN		
C-11	EROSION CONTROL PLAN DETAIL		









# **ISSUED FOR PERMIT**

	REVISIONS		
0	06/18/25	ISSUED FOR PERMIT	
REV. #	DATE	DESCRIPTION	

	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	D. BORCHERDING	06/18/25	303-623-3345
DESIGNED BY	J. ANDERSON	06/18/25	303-623-3345
INTERNAL ENG.	C. MCCULLOUGH	06/18/25	330-596-0111

SITE NAME:

INST# 24-0136951-00 ABAN# ----

PROJECT ID# 21-78790

RIDGEVIEW STATION
UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

FFEN ANLINGTON, FNANKLII

DRAWING TITLE:

TITLE SHEET

DRAWING NO:

T-01

### CIVIL / GRADING NOTES

### GENERAL

- 1. CAMPOS EPC ISSUES THESE DRAWINGS FOR CONSTRUCTION UNDER THE ASSUMPTION THAT ALL REQUIRED FEDERAL, STATE, AND LOCAL PERMITS HAVE BEEN ACQUIRED BY THE OWNER/CONTRACTOR PRIOR ANY CONSTRUCTION ACTIVITIES UNLESS EXPLICITLY APPROVED OTHERWISE.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY OF HIS OWN PERSONNEL, ALL VISITORS TO THE SITE AND THE GENERAL
- 3. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER OF RECORD.
- CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT DRAWINGS WITH ALL CHANGES IDENTIFIED TO BE SUBMITTED TO THE ENGINEER OR RECORD AT PROJECT COMPLETION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALL 811 OR APPLICABLE UTILITY MARKING SERVICE PRIOR TO CONSTRUCTION AS REQUIRED BY LAW TO ENSURE SAFE DIGGING CONDITIONS.
- 5. UTILITY LOCATIONS SHOWN ON PLANS SHOULD BE FIELD VERIFIED AND MARKED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE NOTED TO THE ENGINEER OF RECORD.
- THERE SHALL BE NO EARTH DISTURBING ACTIVITY OUTSIDE THE LIMITS DESIGNATED ON THESE PLANS.
- S. FIELD VERIFY PROPERTY BOUNDARIES, LEASE BOUNDARIES, EASEMENT LIMITS, AND ALL OTHER DIMENSIONS PRIOR TO STARTING CONSTRUCTION. BRING ANY DISCREPANCIES TO THE INSPECTOR'S ATTENTION AND RECONCILE WITH THE ENGINEER PRIOR TO CONSTRUCTION. ALL DIMENSIONS ARE DECIMAL-FEET AND OR FEET-INCHES AND ALL ELEVATIONS ARE IN FEET UNLESS NOTED OTHERWISE
- 9. THE CONTRACTOR SHALL REPAIR ALL EXISTING DISTURBED AREAS, FENCES, WALLS, SHEDS OR OTHER STRUCTURES DAMAGED DURING CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER CONDITIONS.
- 10. THE FINISHED GRADE SURFACE AND DRAINAGE PATTERN SHALL ROUGHLY MAINTAIN THE EXISTING NATURAL GRADE EXCEPT WHERE INDICATED WITHIN THESE PLANS.

#### SUBSURFACE INVESTIGATION

11. SITE SPECIFIC GEOTECHNICAL INVESTIGATION WAS NOT PERFORMED FOR THIS SITE. THE OWNER WILL PROVIDE THE CONTRACTOR WITH A COPY OF THE GEOTECHNICAL ENGINEERING REPORT WHICH INCLUDES BORING AND SOILS DATA. THE OWNER DOES NOT REPRESENT THAT THE BORING LOGS AND OTHER TEST DATA INDICATE THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED THROUGHOUT THE SITES. THE BORING LOGS AND TEST DATA ONLY INDICATE THE CONDITIONS AT THE PARTICULAR LOCATIONS OF THE BORINGS OR TESTING LOCATIONS. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY INTERPRETATION AND CONCLUSIONS WHICH MAY BE MADE AS TO THE NATURE OF THE MATERIALS TO BE ENCOUNTERED AND THE DIFFICULTY OF PERFORMING THE WORK.

#### 3011121

12. SURVEY LOCATION DATA DEPICTED IN THIS DRAWING PACKAGE IS FOR INFORMATIONAL PURPOSES ONLY AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION. SURVEY LOCATION DATA, BENCHMARKS, AND ALL LINEWORK (EASEMENTS, ROW, U/G) DEPICTED ON THESE PLANS PROVIDED BY PUBLICLY AVAILABLE SOURCES ONLINE OR SITE RECONNAISSANCE.

#### BASIS OF COORDINATES AND BEARINGS

- 13. THE HORIZONTAL DATUM FOR COORDINATE DATA DEPICTED IN THIS DRAWING PACKAGE IS THE OHIO, STATE PLANE SOUTH ZONE, US SURVEY FOOT, NAD83 (OH83-SF) AS DETERMINED LOCALLY BY ONLINE POSITIONING USE SYSTEM (OPUS) DERIVED FROM GEODETIC VALUES PUBLISHED BY THE NATIONAL GEODETIC SURVEY (NGS).
- 14. THE VERTICAL DATUM FOR COORDINATE DATA DEPICTED IN THIS DRAWING PACKAGE IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS DETERMINED LOCALLY BY ONLINE POSITIONING USE SYSTEM (OPUS) AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE NATIONAL GEODETIC SURVEY (NGS).

# WEATHER

15. UNLESS APPROVED COMPENSATORY MEASURES ARE IN PLACE, NO EXCAVATION, GRADING OR OTHER WORK SHALL BE PERFORMED IN INCLEMENT WEATHER CONDITIONS WHICH PREVENT ATTAINING SATISFACTORY CONSTRUCTION AS SPECIFIED HEREIN.

# ENVIRONMENTAL PROTECTION

### GENERAL

- 16. THE CONTROL OF ENVIRONMENTAL POLLUTION WHICH COULD RESULT FROM CONSTRUCTION OPERATIONS UNDER THIS CONTRACT REQUIRES CONSIDERATION OF LAND, WATER AND AIR QUALITY AT THE SITE.
- 17. EROSION CONTROL PLANS ARE BY OTHERS. ALL PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY OTHER EARTH DISTURBING ACTIVITY. ALL OTHER STRUCTURAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS SOON AS THE CONSTRUCTION ACTIVITIES, AROUND WHICH THEY ARE BASED, COMMENCE AND MAINTAINED BY OTHERS UNTIL PROJECT ACCEPTANCE AND FINAL COMPLETION OCCURS.
- 18. THE CONTRACTOR AND SUBCONTRACTORS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS CONCERNING ENVIRONMENTAL POLLUTION CONTROL OR ABATEMENT. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS AND COMPLY WITH SUCH PERMITS CONCERNING ENVIRONMENTAL PROTECTION.
- 19. THE OWNER AND THE CONTRACTOR SHALL ESTABLISH THE CRITERIA FOR COMPLIANCE AND ADMINISTRATION OF THE ENVIRONMENTAL POLLUTION CONTROL PROGRAM PRIOR TO COMMENCEMENT OF WORK.
- 20. THE OWNER WILL NOTIFY THE CONTRACTOR IN WRITING OF ANY NONCOMPLIANCE WITH THIS SPECIFICATION AND THE ACTION TO BE TAKEN. THE CONTRACTOR SHALL IMMEDIATELY TAKE CORRECTIVE ACTION

# PROTECTION OF LAND RESOURCES

- 21. LAND RESOURCES ADJACENT TO THE PROJECT BOUNDARIES SHALL BE PRESERVED IN THEIR PRESENT CONDITION OR RESTORED TO A NATURAL APPEARANCE PRIOR TO FINAL ACCEPTANCE OF PROJECT.
- 22. THE CONTRACTOR SHALL NOT INJURE OR DESTROY TREES OR SHRUBS ADJACENT TO THE PROJECT SITE. CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO THE AREA SHOWN ON THE PLANS.
- 23. THE CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS AND APPROVAL PRIOR TO REMOVAL OF ANY TREES REQUIRED BY THE PROPOSED WORK SHOWN IN THESE PLANS.
- 24. TEMPORARY ROADS, EMBANKMENTS OR EXCAVATIONS SHALL BE RESTORED TO NATURAL GRADE AND SEEDED PRIOR TO COMPLETION OF CONSTRUCTION. VEGETATION MUST BE ESTABLISHED ON ALL EXPOSED SOILS PRIOR TO FINAL ACCEPTANCE OF PROJECT.

# PROTECTION OF WATER RESOURCES

- 25. THE CONTRACTOR SHALL NOT ADVERSELY AFFECT THE EXISTING WATER QUALITY WITHIN OR ADJACENT TO THE PROJECT SITE. NO CONSTRUCTION WASTES OR OTHER HARMFUL MATERIALS WILL BE PERMITTED TO ENTER THESE WATER RESOURCES.
- 26. SURFACE DRAINAGE FROM CUTS AND FILLS SHALL BE PROTECTED BY AN EFFECTIVE EROSION AND SEDIMENT CONTROL PLAN OR SHALL BE GRADED TO CONTROL EROSION WITHIN ACCEPTABLE LIMITS. THESE MEASURES SHALL BE DESIGNED AND MAINTAINED BY OTHERS AND SHALL BE MAINTAINED UNTIL PERMANENT DRAINAGE AND EROSION CONTROL FACILITIES ARE COMPLETED.

# CONTROL OF AIR POLLUTANTS

# 27. NO FIRES SHALL BE ALLOWED TO DISPOSE OF DEBRIS.

- THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE AND ACCESS ROADS FREE FROM DUST WHICH WOULD CAUSE A HAZARD OR NUISANCE TO OTHERS. REFER TO JURISDICTIONAL REQUIREMENTS FOR DUST CONTROL MEASURES.
- 29. THE CONTRACTOR SHALL OBTAIN DUST PERMIT FROM AUTHORITY HAVING JURISDICTION AND PAY ALL ASSOCIATED FEES PRIOR TO STARTING WORK.

# PRODUCTS

# GENERAL

30. ALL PRODUCTS/MATERIALS USED DURING THE CONSTRUCTION OF THESE PLANS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO PURCHASING, DELIVERY, AND INSTALLATION.

### GEOTEXTILE

- 31. SEPARATION AND REINFORCEMENT GEOSYNTHETIC SHALL BE TENCATE MIRAFI RS380I OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. EQUIVALENT GEOSYNTHETICS SHALL MEET STRENGTH AND FILTRATION CHARACTERISTICS OF SPECIFIED PRODUCTS. WHERE STRICTLY SEPARATION GEOSYNTHETIC IS CALLED FOR, THE CONTRACTOR MAY UTILIZE TENCATE MIRAFI 180N, UNLESS NOTED OTHERWISE. PROVIDE GEOSYNTHETIC ROLLS WITH SUITABLE WRAPPING FOR PROTECTION AGAINST MOISTURE, AND EXTENDED ULTRAVIOLET EXPOSURE PRIOR TO PLACEMENT. EACH ROLL SHALL BE LABELED TO PROVIDE PRODUCT IDENTIFICATION SUFFICIENT FOR INVENTORY AND QUALITY CONTROL PURPOSES. STORE ROLLS IN A MANNER, WHICH PROTECTS THEM FROM THE ELEMENTS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. ELEVATE GEOSYNTHETICS STORED OUTDOORS AND PROTECT WITH WATERPROOF COVER.
- 32. GEOSYNTHETICS SHALL BE INSTALLED AS INDICATED ON THE PLANS AND OUTLINED HEREIN. THE MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, SPLICE LENGTHS/LAP WIDTHS, TENSIONING, AND ORIENTATION. THE GEOSYNTHETICS SHALL BE INSTALLED TO MINIMIZE CUTTING AND WASTAGE. CARE SHALL BE TAKEN TO NOT RIP THE GEOSYNTHETIC MATERIALS. TEARS SHALL BE COVERED WITH PIECES OF GEOSYNTHETIC MATERIAL WITH AT LEAST 12 INCHES OF OVERLAP OR PER MANUFACTURER'S SPECIFIED INSTRUCTIONS. THE GEOSYNTHETIC MATERIALS SHALL NOT REMAIN EXPOSED LONGER THAN 24 HOURS, OR AS OTHERWISE SPECIFIED IN THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

#### FILI

- 33. THE NATIVE SOILS ON SITE SHALL BE TESTED FOR COMPLIANCE OR DETERMINED TO BE COMPLIANT BY A COMPETENT INDIVIDUAL WITH THE GENERAL BACKFILL OR ENGINEERED FILL CRITERIA BELOW PRIOR TO USE.
- 34. EACH UNIQUE FILL SOURCE (ON-SITE BORROW OR IMPORT LOCATION) AND/OR IF A CHANGE IN MATERIAL TYPE OCCURS, LABORATORY TESTING INCLUDING MOISTURE CONTENT (ASTM D2216), GRAIN SIZE DISTRIBUTION (ASTM D6193), ATTERBERG LIMITS (ASTM D4318), AND MODIFIED PROCTOR (ASTM D1557) SHOULD BE PERFORMED. THE RESULTS SHOULD BE EVALUATED TO CONFIRM THE SUITABILITY OF THE FILL SOURCE PRIOR TO BEING USED ONSITE.
- 35. NATIVE SOILS MAY BE APPROVED FOR USE AS GENERAL FILL PROVIDED THE MATERIALS ARE FREE OF DEBRIS, SIGNIFICANT ORGANICS, OR OTHER DELETERIOUS MATERIALS AND COMPLY WITH THE SPECIFICATIONS IN THE TABLE BELOW.
- 36. PROJECT FILL AND BACKFILL MATERIALS SHALL MEET THE REQUIREMENTS NOTED IN THE FOLLOWING TABLE:

MATERIAL	MATERIAL PROJECT LOCATION FOR SPECIFIED SOIL GRAIN SIZE		IN SIZE	OTHER REQUIREMENTS
		SIEVE	PERCENT FINER	
GENERAL BACKFILL - (IMPORTED SOILS OR		3"	100	
CRITERIA FOR APPROVAL OF NATIVE SOILS AS GENERAL	GENERAL BACKFILL WHERE APPROVED FOR USE	NO. 4	30-100	PI LESS THAN OR EQUAL TO 30 LL OF 50 OR LESS. NO ORGANIC
BACKFILL)		NO. 200	0-30	
ENGINEERED FILL -		3"	100	PI LESS THAN OR EQUAL TO 15; LL 40 OR LESS. SAND EQUIVALENT
(IMPORTED SOILS OR CRITERIA FOR APPROVAL OF NATIVE SOILS AS ENGINEERED FILL)	AS INDICATED ON PLANS	NO. 4	20-65	VALUE NO LESS THAN 20. RESISTIV SUBMITTED FOR CORROSION
SOILS AS ENGINEERED FILL)		N. 200	EVE PERCENT FINER  8" 100  0. 4 30-100  200 0-30  8" 100  0. 4 20-65  200 0-8  7/2" 100  1" 80-100  7/2" 55-80  0. 4 35-60  200 5-10  1" 95-100  7/2" 25-60  0. 4 0-10  7/2" 100  1" 100  1" 100  1" 100  1" 100  1" 100  1" 100  1" 75-95  10. 4 0-15	REVIEW.
		1 1/2"	100	
		1"	80-100	THE LL SHALL NOT EXCEED 25 (35 SLAG) AND THE PI SHALL NOT EXCE
AGGREGATE BASE COURSE - (#4 LIMESTONE)	ROADWAYS OR AREAS SUBJECT TO VEHICLE TRAFFIC	1/2"	55-80	5. THE LL SHALL BE DETERMINED ACCORDANCE WITH AASHTO T-8
		NO. 4	35-60	AND THE PI IN ACCORDANCE W AASHTO T-90.
		NO. 200	5-10	
	BARRIER BENEATH PADS -	1-1/2"	100	
CRUSHED ROCK (#57) - (#57 STONE ASTM D448 PER		1"	95-100	RESISTIVITY SUBMITTED FOR
AASHTO M43)	TRENCH BEDDING & BACKFILL	1/2"	25-60	CORROSION REVIEW
		NO. 4	0-10	
		1/2"	100	
TRENCH BEDDING/SHADING - (AASHTO M-6 SAND)	UTILITY CORRIDOR BEDDING/SHADING	NO. 4	40-75	RESISTIVITY SUBMITTED FOR CORROSION REVIEW
		NO. 200	0-10	
		1"	100	
	BACKFILL FOR UNDERGROUND	3/4"	75-95	
<b>WASHED STONE</b> (#8 WASHED)	DETENTION STORAGE VOLUME, UNDER DRAINS, AND	1/2"	40-70	RESISTIVITY SUBMITTED FOR CORROSION REVIEW-
	EROSION CONTROL BMP'S	NO. 4	0-15	
		NO. 8	0-10	

# OPERATIONS:

# CLEARING AND GRUBBING

- 37. ALL PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY OTHER EARTH DISTURBING ACTIVITY. ALL OTHER STRUCTURAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS SOON AS THE CONSTRUCTION ACTIVITIES, AROUND WHICH THEY ARE BASED, COMMENCE.
- 38. ALL AREAS REQUIRING NEW CUT AND FILL OPERATIONS SHALL BE GRUBBED TO REMOVE ANY GRASS, ROOTS, ORGANIC MATERIAL, EXISTING FILL, OR OTHER DEBRIS. STRIPPED MATERIAL SHALL BE DISPOSED OF OUTSIDE THE SITE AT AN APPROPRIATE DISPOSAL FACILITY OR STOCKPILED ON SITE FOR USE DURING RESTORATION ACTIVITIES PER THE ENGINEER'S DIRECTION. MANAGEMENT AND COSTS OF MATERIAL DISPOSAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

# PROOF-ROLLING

39. ALL OPERATIONS SHALL BE PERMORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SPECIFIED GEOTECHNICAL REPORT IF AVAILABLE, FOR SITUATIONS NOT SPECIFIED WITHIN THE REPORT OR IF NO REPORT IS PROVIDED, REFER TO THE FOLLOWING SPECIFICATIONS.

- 40. PROOF-ROLLING SHALL BE PERFORMED AT AREAS OF PROPOSED FILL PLACEMENT, PROPOSED STRUCTURE FOOTPRINTS, PROPOSED ACCESS OR SERVICE ROADS SUBJECT TO VEHICLE LOADING, AND SLAB SUBGRADES FOR THE PROJECT.
- 41. PRIOR TO PLACEMENT OF FILL, SUBGRADE SURFACES SHALL BE CLEANED OF DEBRIS, ORGANIC MATTER, MUD, LOOSE SOIL AND OTHER UNSUITABLE MATERIAL. AFTER THE AREAS OF THE SITE HAVE BEEN STRIPPED AND UNSUITABLE MATERIALS HAVE BEEN REMOVED, AT-GRADE AREAS, AND AREAS THAT ARE TO RECEIVE FILL SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR PNEUMATIC-TIRED VEHICLE WITH A MINIMUM LOADED WEIGHT OF 10 TONS. PROOF-ROLLING CONSISTS OF APPLYING REPEATED PASSES TO THE SUBGRADE WITH THIS EQUIPMENT. SUBGRADES IN AREAS OF CUT SHOULD BE SIMILARLY PROOF-ROLLED SUBSEQUENT TO EXCAVATION. THE PROOF-ROLLING OPERATION SHALL BE PERFORMED UNDER THE OBSERVATION OF THE OWNER'S DESIGNATED REPRESENTATIVE. ANY AREAS WHICH DEFLECT, RUT, OR PUMP UNDER THE PROOF-ROLLING, AND FAIL TO BE REMEDIED WITH SUCCESSIVE PASSES AS DETERMINED BY THE OWNER, SHALL BE STABILIZED OR UNDERCUT TO MORE STABLE SOILS DEPENDING ON THE SITE CONDITIONS AT THE TIME OF CONSTRUCTION. ALL MATERIAL UNDERCUT SHALL BE REPLACED AND COMPACTED WITH AN APPROVED FILL.

#### SUBGRADE STABILIZATION

42. WET AND UNSTABLE EXPOSED SUBGRADE SOILS, IF ENCOUNTERED, MAY BE STABILIZED IN LIEU OF UNDERCUTTING AND SOIL REPLACEMENT WHEN DIRECTED BY THE ENGINEER.

#### PRFPARATION

43. AFTER PROOF-ROLLING AND BEFORE PLACING FILL MATERIAL, THE SUBGRADE SOIL SURFACE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 8 INCHES, WETTED OR DRIED TO PRODUCE 2% HIGHER MOISTURE CONTENT THAN OPTIMUM MOISTURE CONTENT, AND RECOMPACTED TO AT LEAST 90% OF M.D.D. PER ASTM D-1557 FOR GRANULAR SOILS OR TO AT LEAST 95% OF M.D.D. PER D-698 FOR COHESIVE, FINE-GRAINED SOILS.

#### COMPACTIC

44. COMPACTION SHALL BE PERFORMED BY ROLLING WITH APPROVED TAMPING ROLLERS, PNEUMATIC-TIRED ROLLERS, THREE-WHEEL POWER ROLLERS OR OTHER APPROVED EQUIPMENT SUITABLE FOR THE SOIL AND COMPACTION SPECIFIED. MATERIAL SHALL BE MOISTENED OR AERATED AS NECESSARY TO PROVIDE THE MOISTURE CONTENT THAT WILL READILY FACILITATE OBTAINING THE SPECIFIED COMPACTION WITH THE EQUIPMENT USED. EACH LAYER SHALL BE COMPACTED TO NOT LESS THAN THE PERCENTAGE OF MAXIMUM DENSITY AND SHOULD BE MOISTURE CONDITIONED AS NOTED BELOW.

MATERIAL	COMPACTION REQUIREMENT	MAX LIFT THICKNESS
GENERAL BACKFILL	90% OF MDD BY MODIFIED PROCTOR (ASTM D-1557) OR 95% OF MDD BY STD. PROCTOR (ASTM D-698) M.C. ±2% OF OPTIMUM M.C.	8" LOOSE LIFT MAX IF USING LARGE COMPACTION EQUIPMENT. 6" LOOSE LIFT MAX IF USING WALK BEHIND OR HAND OPERATED EQUIPMENT
ENGINEERED FILL	90% OF MDD BY MODIFIED PROCTOR (ASTM D-1557) OR 95% OF MDD BY STD. PROCTOR (ASTM D-698) M.C. ±2% OF OPTIMUM M.C.	8" LOOSE LIFT MAX IF USING LARGE COMPACTION EQUIPMENT. 6" LOOSE LIFT MAX IF USING WALK BEHIND OR HAND OPERATED EQUIPMENT
AGGREGATE BASE COURSE	90% OF MDD BY MODIFIED PROCTOR (ASTM D-1557) OR 95% OF MDD BY STD. PROCTOR (ASTM D-698) M.C. ±2% OF OPTIMUM M.C.	8" LOOSE LIFT MAX IF USING LARGE COMPACTION EQUIPMENT. 6" LOOSE LIFT MAX IF USING WALK BEHIND OR HAND OPERATED EQUIPMENT
CRUSHED ROCK (#57)	90% OF MDD BY MODIFIED PROCTOR (ASTM D-1557) OR 95% OF MDD BY STD. PROCTOR (ASTM D-698) M.C. ±2% OF OPTIMUM M.C.	8" LOOSE LIFT MAX IF USING LARGE COMPACTION EQUIPMENT. 6" LOOSE LIFT MAX IF USING WALK BEHIND OR HAND OPERATED EQUIPMENT
TRENCH BEDDING/SHADING	90% OF MDD BY MODIFIED PROCTOR (ASTM D-1557) OR 95% OF MDD BY STD. PROCTOR (ASTM D-698) M.C. ±2% OF OPTIMUM M.C.	8" LOOSE LIFT MAX IF USING LARGE COMPACTION EQUIPMENT. 6" LOOSE LIFT MAX IF USING WALK BEHIND OR HAND OPERATED EQUIPMENT
WASHED STONE	90% OF MDD BY MODIFIED PROCTOR (ASTM D-1557) OR 95% OF MDD BY STD. PROCTOR (ASTM D-698) M.C. ±2% OF OPTIMUM M.C.	8" LOOSE LIFT MAX IF USING LARGE COMPACTION EQUIPMENT. 6" LOOSE LIFT MAX IF USING WALK BEHIND OR HAND OPERATED EQUIPMENT

# SLOPED SURFACES

- 45. PLACEMENT OF FILL AGAINST SLOPED SURFACES STEEPER THAN 4 HORIZONTAL-TO-1 VERTICAL SHALL BE STEPPED OR BENCHED INTO COMPETENT SUBGRADE MATERIAL AS DETERMINED BY THE ONSITE GEOTECHNICAL ENGINEER, SCARIFIED AND COMPACTED AS DESCRIBED ABOVE
- 46. AN 18" MIN. DEPTH BY 5' MIN. WIDTH KEYWAY SHALL BE EXCAVATED INTO COMPETENT NATIVE SOILS AT THE BASE OF THE EXISTING SLOPE.
- 47. VERTICAL SIDES FOR EACH BENCH SHALL BE APPROXIMATELY 3' IN HEIGHT WITH A 4' MAXIMUM HEIGHT. EACH HORIZONTAL CUT SHALL BEGIN AT THE INTERSECTION OF THE EXISTING GROUND AND THE VERTICAL SIDES OF THE PREVIOUS BENCH.
- 48. THE BENCHING SHALL COMPLY WITH MAXIMUM ALLOWABLE SLOPES FOR THE SITE SPECIFIC SOIL TYPE PER OSHA GUIDANCE AND RECOMMENDATIONS WITHIN THE GEOTECHNICAL REPORT IF AVAILABLE.

# PLACEMENT

- 49. FILL SHALL NOT BE PLACED UNTIL THE EXCAVATION AND SUBGRADE PREPARATION (OR PORTIONS THEREOF) HAVE BEEN COMPLETED, INSPECTED, AND APPROVED BY THE ENGINEER. FILL SHALL BE PLACED ON A SCARIFIED AND RECOMPACTED SURFACE IN HORIZONTAL LIFTS NOT EXCEEDING THE LIFT THICKNESS INDICATED IN THE COMPACTION TABLE AND THEN COMPACTED TO RELATIVE COMPACTION AS NOTED IN THE TABLE TO BRING THE AREA UP TO GRADE ELEVATION. MATERIALS PLACED BY DUMPING IN PILES OR WINDROWS SHALL BE SPREAD UNIFORMLY BEFORE BEING COMPACTED. NO MATERIAL SHALL BE PLACED ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST.
- 50. MAINTAIN POSITIVE DRAINAGE ACROSS THE SITE THROUGHOUT THE PROJECT. PROVIDE LOCALIZED GRADING AROUND ALL EXISTING AND PROPOSED FOUNDATIONS/FLATWORK TO ENSURE RUNOFF IS NOT DIRECTED TOWARD FOUNDATIONS/FLATWORK AND PONDING IS PREVENTED. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.

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CHECKED BY	D. BORCHERDING	06/18/25	303-623-3345
DESIGNED BY	J. ANDERSON	06/18/25	303-623-3345
INTERNAL ENG.	C. MCCULLOUGH	06/18/25	330-596-0111

SITE NAME:

INST# 24-0136951-00
ABAN# ---PROJECT ID# 21-78790
RIDGEVIEW STATION
UPPER ARLINGTON, FRANKLIN COUNTY. OHIO

DRAWING TITLE:

**GENERAL NOTES** 

DRAWING NO:

#### CIVIL / GRADING NOTES

#### **OPERATIONS (CONTINUED):**

#### INSPECTION- GENERAL COMPACTION TESTING REQUIREMENTS

- 51. ALL REQUIRED INSPECTIONS SHALL BE PERFORMED, RECORDED, AND APPROVED PRIOR TO PROCEEDING TO A SUBSEQUENT TASK. INSPECTIONS SHALL BE PERFORMED AT A MINIMUM FOR SUBGRADE PREPARATION, COMPACTION, BACKFILL, FINISHED GRADES OF ALL FEATURES, AND TEMPORARY AND PERMANENT DRAINAGE BMP'S. INSPECTIONS ARE PERMITTED TO BE PERFORMED BY A THIRD PARTY PROVIDED INSPECTION REPORTS ARE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO ACCEPTANCE.
- 52. THE ON-SITE FIELD GEOTECHNICAL ENGINEER SHALL HAVE AUTHORITY TO MODIFY THE TESTING FREQUENCIES BELOW AS FIELD CONDITIONS WARRANT. VALUES LISTED BELOW ARE MINIMUM CRITERIA RECOMMENDED BY CAMPOS EPC.
- 53. IN-SITU DENSITY TESTING OF THE SOILS SHOULD BE TESTED WITH EITHER THE SAND CONE (ASTM D1556) OR NUCLEAR DENSITY TEST
- 54. COMPACTION TESTING FREQUENCIES FOR ALL ROADS AND UTILITY TRENCHES TO BE ONE (1) TEST PER 150 FT OF OF LENGTH, OR FRACTION THEREOF PER 8" LIFT.
- 55. COMPACTION TESTING FREQUENCIES FOR ALL AREAS SCHEDULED FOR FOUNDATIONS OR ANY OTHER ITEM SENSITIVE TO LOCALIZED SETTLEMENT TO BE ONE (1) TEST PER 500 SF OR FRACTION THEREOF PER 8" LIFT.
- 56. COMPACTION TESTING FREQUENCIES FOR ALL FILL EMBANKMENTS TO BE ONE (1) TEST PER 1,000 SF OR FRACTION THEREOF PER 8" LIFT.
- 57. COMPACTION TESTING FREQUENCIES FOR ALL REMAINING AREAS TO BE ONE (1) TEST PER 5,000 SF, OR FRACTION THEREOF PER 8" LIFT.

### CONCRETE

- 58. GENERAL USE CONCRETE SHALL HAVE A 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
- 59. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE SPECIFICATIONS AND DETAILS.

### CRACK CONTROL JOINTS

- 60. SAW CUT CONTROL JOINTS 1/8" TO 1/4" WIDE AS SOON AS PRACTICAL TO AVOID RAVELING EDGE.
- 61. CONTROL JOINTS TO BE CUT TO A QUARTER OF THE PLACED CONCRETE THICKNESS IN DEPTH.
- 62. SPACING OF JOINTS SHALL BE BETWEEN 24 TO 30 TIMES THE PLACED CONCRETE THICKNESS. THE ASPECT RATIO FOR UNREINFORCED PANELS OR UNLESS NOTED OTHERWISE SHALL BE A MAXIMUM OF 1.5 TO 1. IRREGULAR SHAPES SUCH AS "L'S" OR "T'S" SHALL BE AVOIDED.

#### ROLLED EROSION CONTROL PRODUCTS (RECP)

- 63. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- 64. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP x 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF GREEN STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF GREEN STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
- 65. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING GREEN STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAKING PATTERN GUIDE. STAKING PATTERNS SHALL FOLOW THE INSTALLATION DETAIL IN THESE PLANS.
- 66. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" 5' OVERLAP DEPENDING ON RECP'S TYPE.
- 67. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH.

  NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.
- 68. ALL EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN (NAG) SC150 BN BIODEGRADABLE BLANKET OR ENGINEER APPROVED EQUIVALENT.

#### EARTHWORK CALCULATIONS:

- a. ASSUMPTIONS:
- TOPSOIL THICKNESS OF XX" TO BE CLEARED FROM LIMITS OF GRADING & STOCKPILED.
- VOLUMES NOT MODIFIED FOR SHRINKAGE, SWELLING, NOR COMPACTION OF SOIL.

<ul> <li>b. SOIL QUANTITIES:</li> <li>TOPSOIL STRIPPED &amp; STOCKPILED</li> <li>TOPSOIL VOLUME SPOILED OR DISPERSED OUTSIDE OF GRADING LIMITS</li> <li>USABLE TOPSOIL VOLUME ON BANKS &amp; SWALES</li> <li>AGGREGATE BASE COURSE</li> <li>CRUSHED ROCK (#57)</li> </ul>	500 C.Y. 50 C.Y. 335 C.Y.
c. OTHER MATERIAL QUANTITIES:  • CONCRETE  • GEOTEXTILE  • STATION FENCING.	AS REQUIRED

d. MODEL VOLUMES	
MODEL CUT VOLUME	70 C.Y.
MODEL FILL VOLUME	680 C.Y.
• MODEL NET (FILL)	610 C.Y.
e. SUMMARY	

#### 

EXAMPLE: MODEL CUT - MODEL FILL + TOTAL IMPORT =ADDITIONAL IMPORT (NEG) OR LEFTOVER USABLE CUT (POS)

#### ABBREVIATION LIST:

N:	NORTHING
E:	EASTING
FC:	FENCE CORNER
GB:	GRADE BREAK
TOC:	TOP OF CONCRETE
TOP:	TOP OF POND
BOP:	BOTTOM OF POND
PC:	POINT OF CURVATURE
PT:	POINT OF TANGENCY
PU:	EXISTING GRADE
PG:	PROPOSED GRADE
FES:	FLARED END SECTION
FFE:	FINISHED FLOOR ELEVATION
BW:	BACK OF WALK
TBC:	TOP BACK OF CURB
FL:	FLOW LINE
TOW:	TOP OF WALL
BOW:	BOTTOM OF WALL









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DESIGNED BY	GNED BY J. ANDERSON		303-623-3345
NTERNAL ENG.	C. MCCULLOUGH	06/18/25	330-596-0111

SITE NAME:

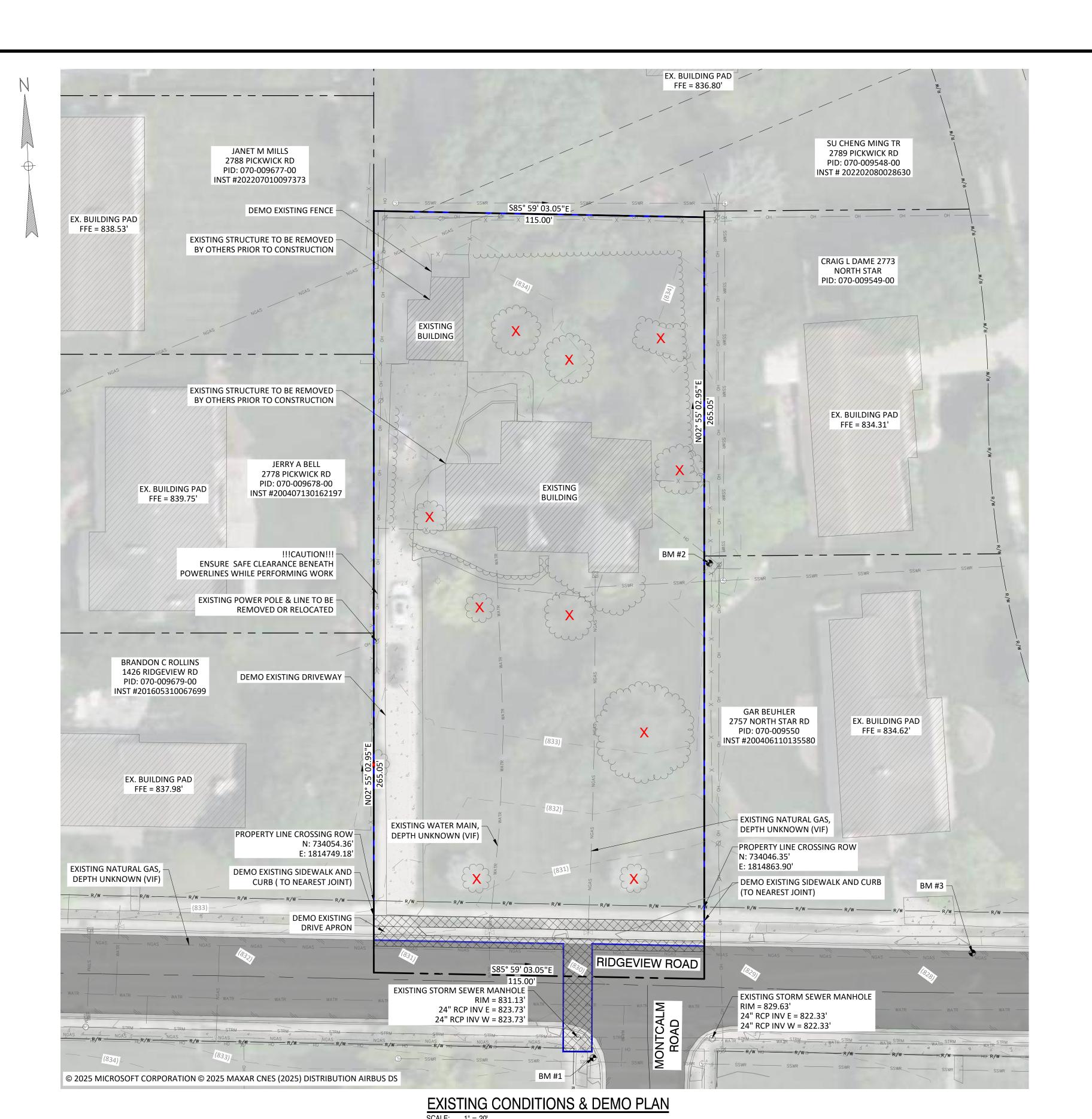
INST# 24-0136951-00 ABAN# ----PROJECT ID# 21-78790

RIDGEVIEW STATION
UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:

**GENERAL NOTES** 

DRAWING NO:



SURVEY	LEGEND:

			PROPERTY LINE
			- ADJACENT PROPERTY LINE
			EXISTING ROAD CENTERLINE
R/W	R/W	— R/W ———	EXISTING ROAD RIGHT OF WAY LINE
			EXISTING EASEMENT
×	_ × × _	X	EXISTING FENCE LINE
			EXISTING EDGE OF ROAD
—— ОН ——	—— ОН ———	— он —	EXISTING OVERHEAD WIRE
— Е —	– Е ——— Е —	Е —	EXISTING ELECTRIC
NGAS	NGAS	NGAS	EXISTING NATURAL GAS
SSWR —	SSWR —	SSWR —	EXISTING SEWER
STRM —	STRM —	STRM	EXISTING STORM
TELE —	TELE —	TELE —	EXISTING TELEPHONE LINE
WATR —	WATR —		EXISTING WATER
	(2.1-)		EMOTING VEGETATION
	(345)		EXISTING MAJOR CONTOUR (5' INTERVAL
	— (341) —		EXISTING MINOR CONTOUR (1' INTERVALS
			LIMITS OF GRADING (0.67 AC)
Δ Δ	Δ Δ Δ	Δ. Δ. Δ. ΔΔ .	EXISTING CONCRETE
			EXISTING ASPHALT
			EXISTING BUILDING
			PAVEMENT AND SIDEWALK DEMOLITION
	- <del>-</del> -		EXISTING LIGHT
	G		EXISTING POWER POLE
	Ħ		EXISTING FIRE HYDRANT
	W		EXISTING WATER VALVE
	Ø		EXISTING UTILITY POLE
	-0		EXISTING STREET SIGN
	~		EXISTING GUY WIRE
	(S)		EXISTING SEWER MANHOLE
	© §T)		EXISTING STORM MANHOLE
	CB		EXISTING CATCH BASIN
	<b>V</b>		BENCHMARK
	$\{\mathbf{x}\}$		TREE REMOVAL
	( 🗾 🔪		

BENCHMARK TABLE						
POINT #	POINT # DESCRIPTION ELEV NORTHING EASTIN					
BENCHMARK 1	СРТ	829.99'	733995.91'	1814822.59'		
BENCHMARK 2	FIP PINCH 3/4" (+0.40')	833.41'	734165.74'	1814871.74'		
BENCHMARK 3	СРТ	827.61'	734025.63'	1814956.21'		









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DESIGNED BY J. AN		IDERSON	06/18/25	303-623-3345	
CHECKED BY D. BOF		RCHERDING	06/18/25	303-623-3345	
AS-BUILT BY					

SITE NAME:

INST# 24-0136951-00 ABAN# ----

NAME DATE PHONE #

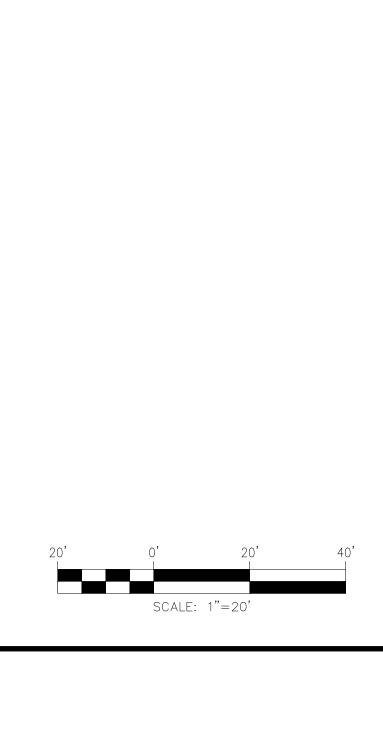
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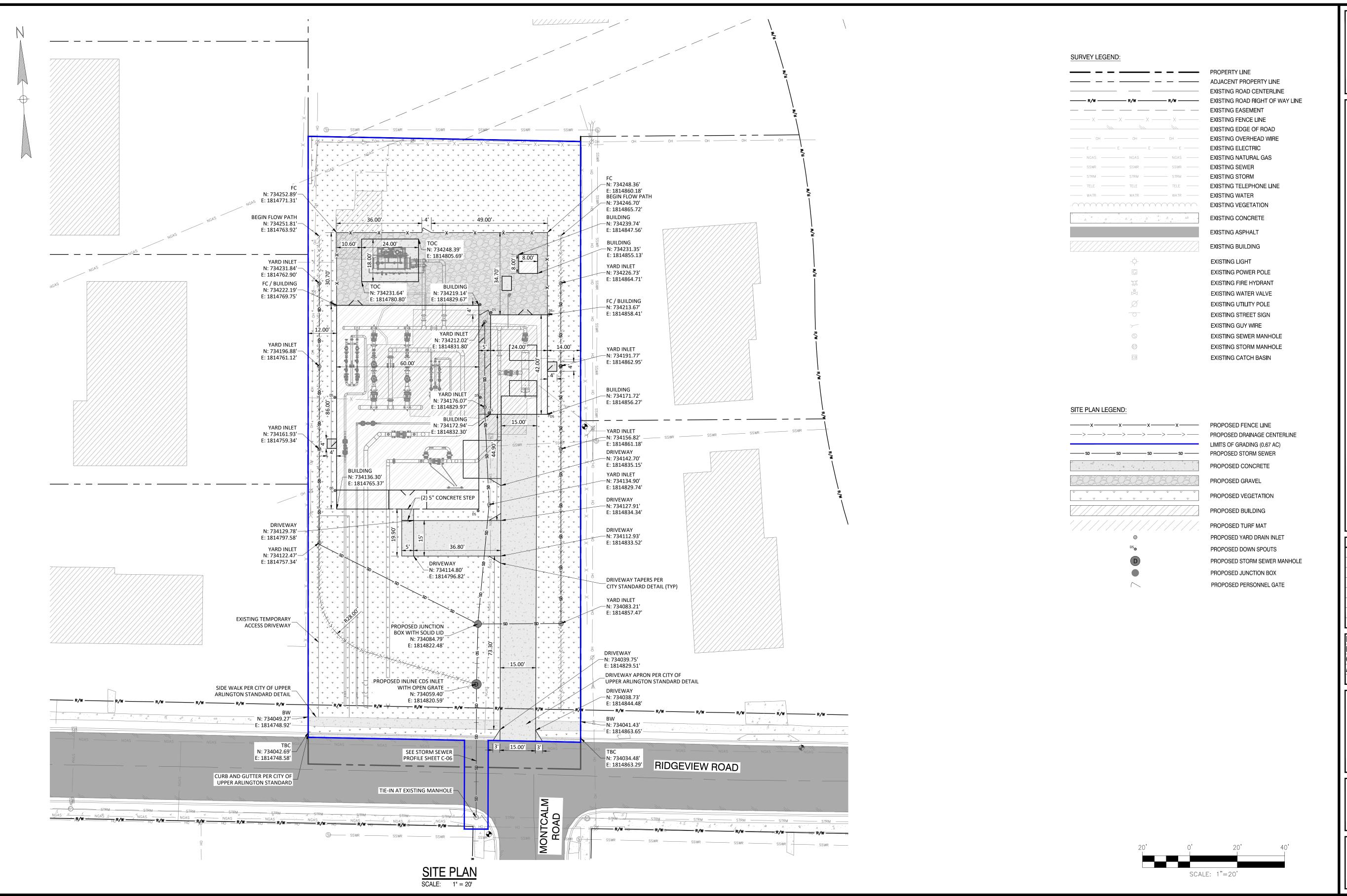
RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

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**EXISTING CONDITIONS** & DEMO PLAN

DRAWING NO:













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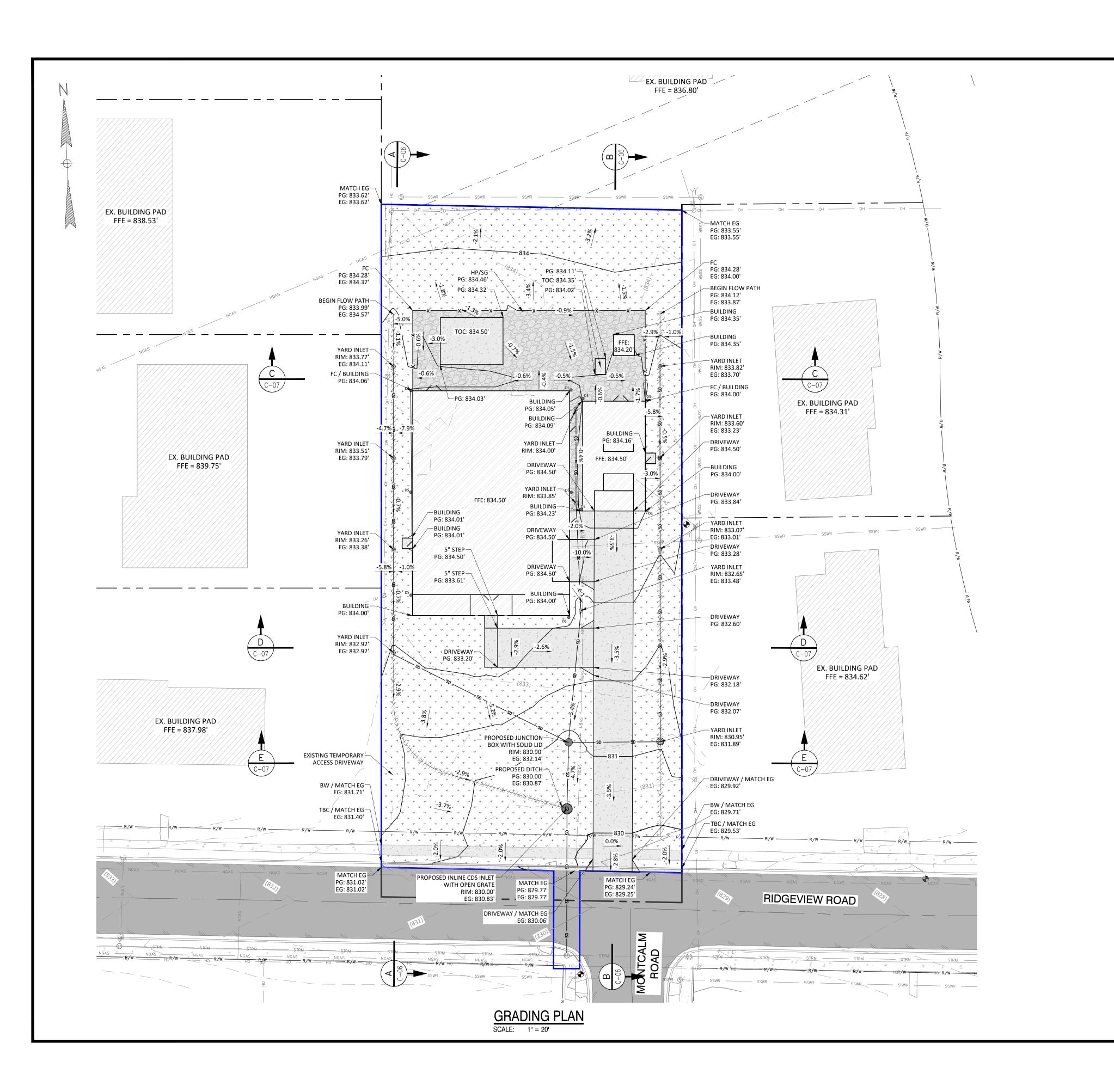
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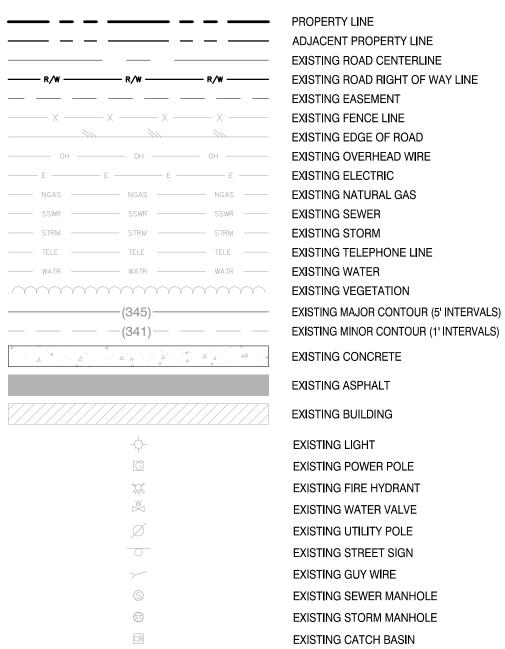
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SITE PLAN

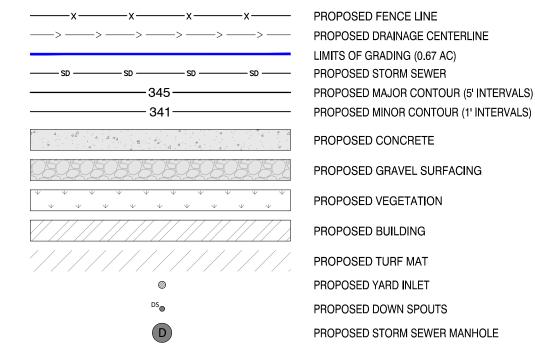
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#### GRADING LEGEND:



PROPOSED JUNCTION BOX

PROPOSED PERSONNEL GATE

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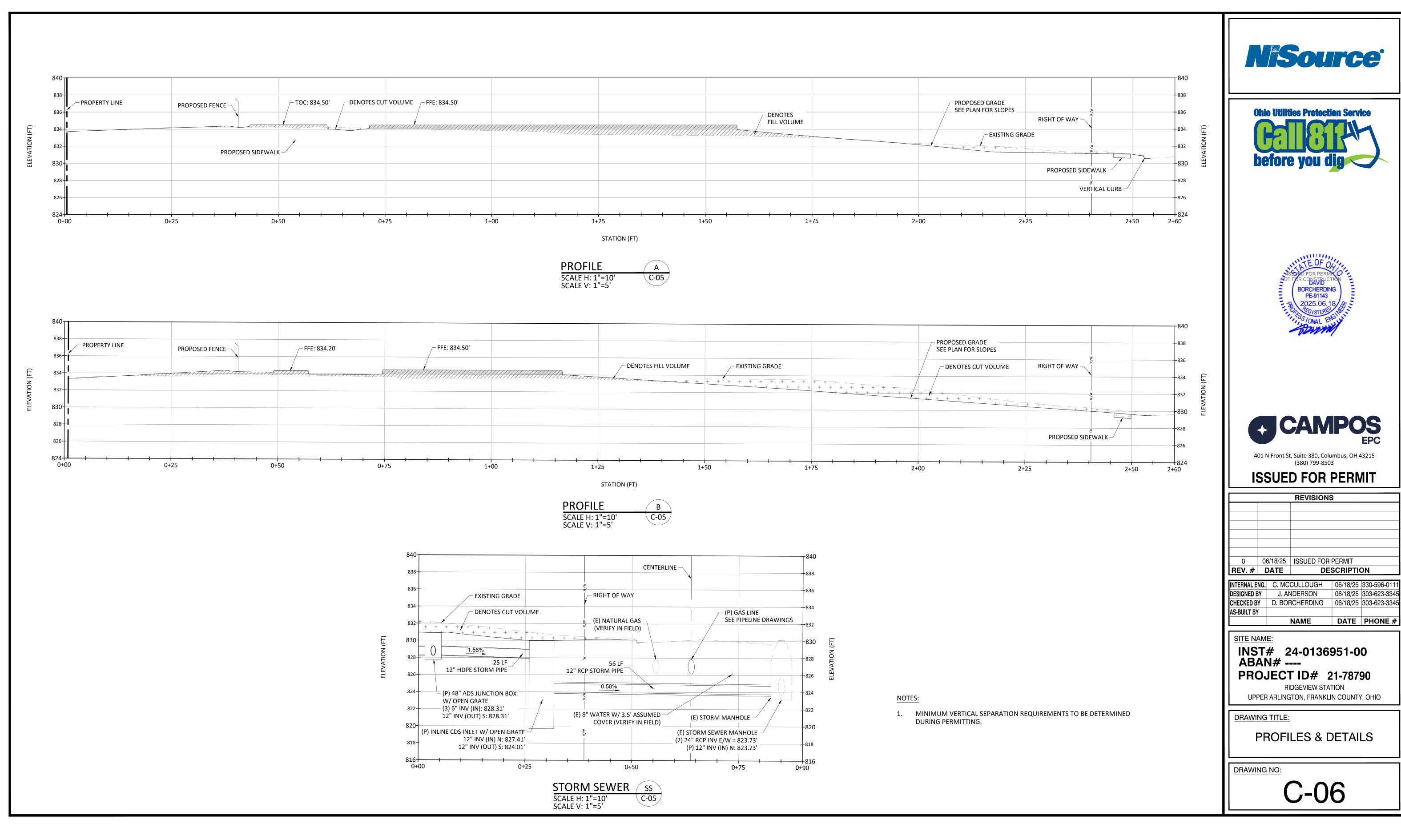
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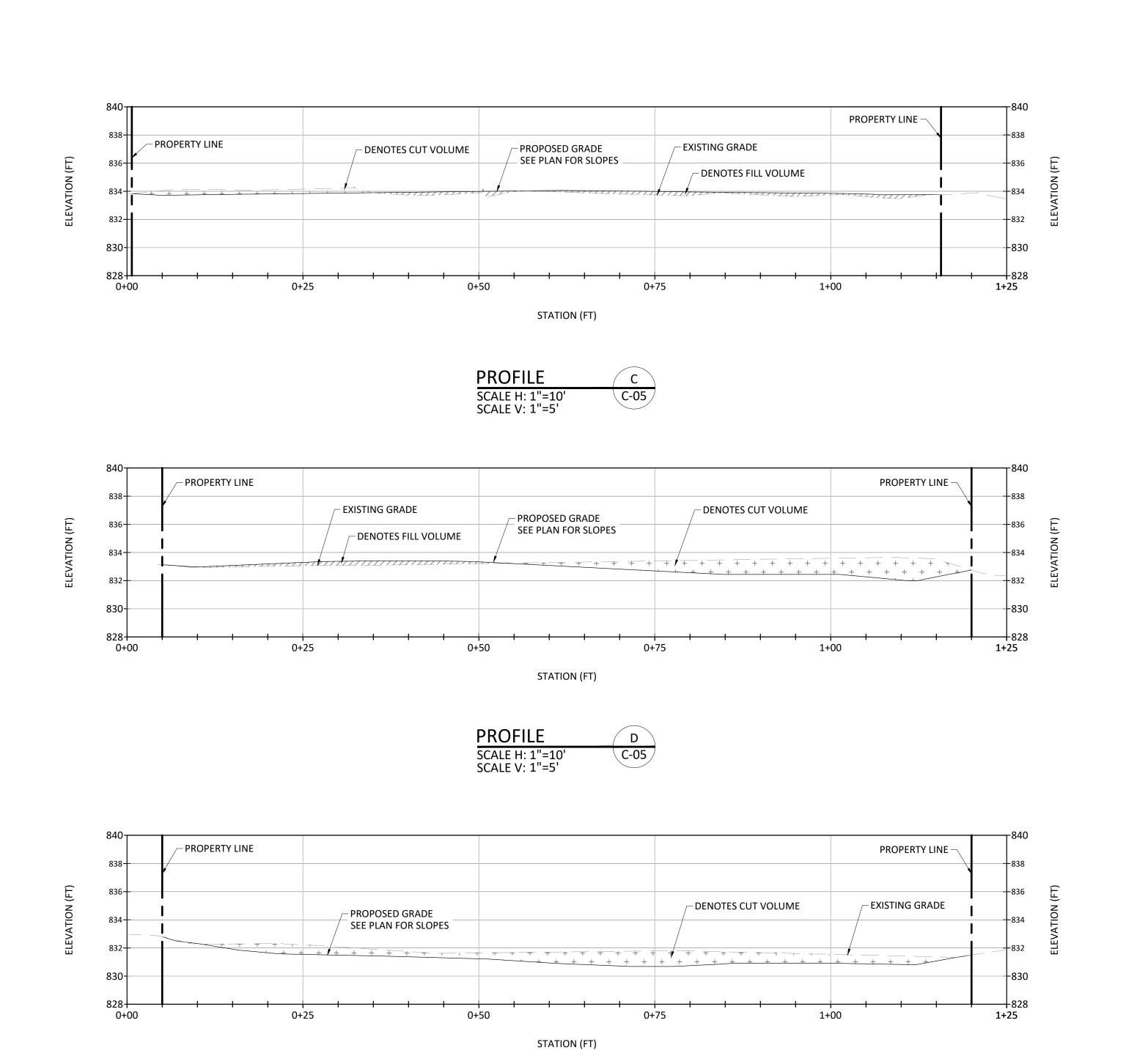
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**GRADING PLAN** 

DRAWING NO:

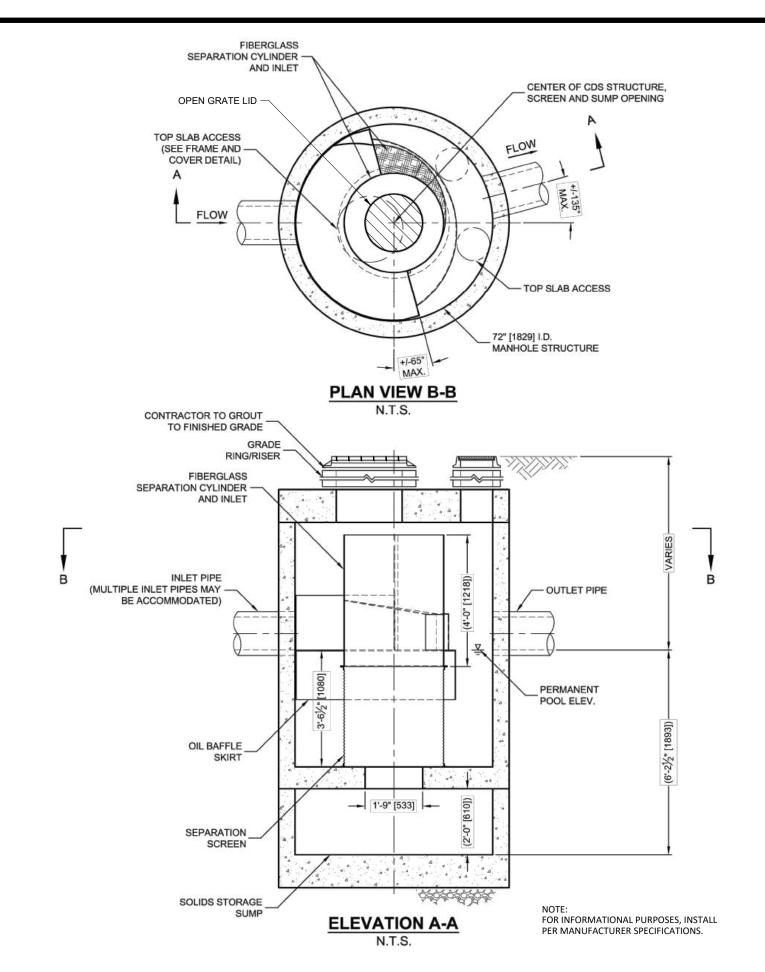


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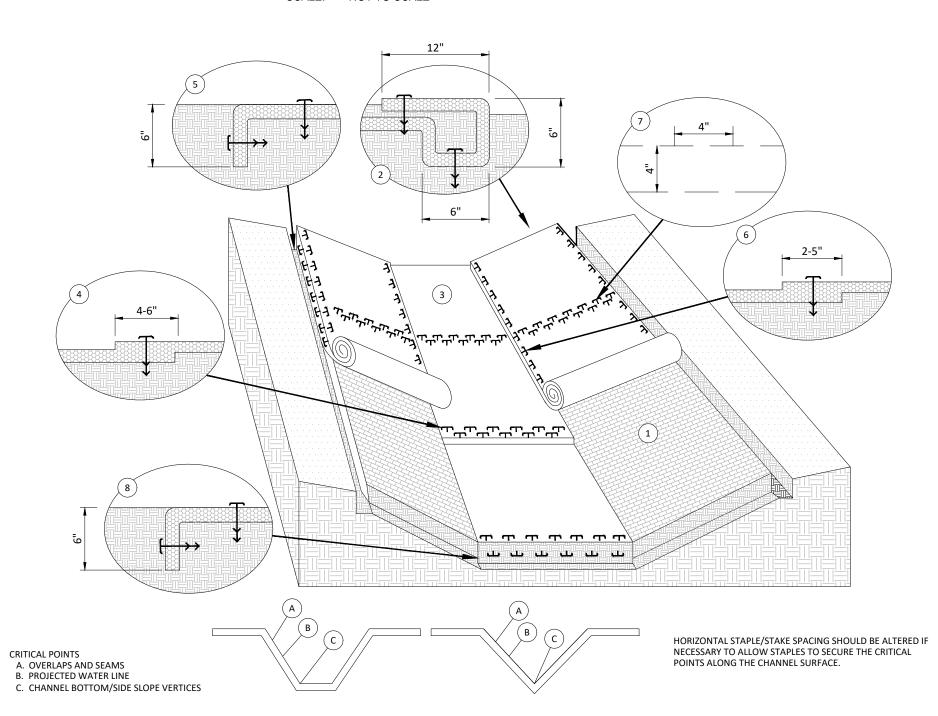


PROFILE

SCALE H: 1"=10' SCALE V: 1"=5' C-05



# CONTECH INLINE CDS STANDARD DETAIL SCALE: NOT TO SCALE



ROLLED EROSION CONTROL PRODUCTS (RECP) TURF REINFORCEMENT MAT (FOR CHANNELS AND SWALES)
SCALE: NOT TO SCALE









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	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	D. BORCHERDING	06/18/25	303-623-3345
DESIGNED BY	J. ANDERSON	06/18/25	303-623-3345
INTERNAL ENG.	C. MCCULLOUGH	06/18/25	330-596-0111

SITE NAME:

INST# 24-0136951-00 ABAN# ----

PROJECT ID# 21-78790

RIDGEVIEW STATION
UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:

PROFILES & DETAILS

DRAWING NO:

### **EROSION AND SEDIMENT CONTROL GENERAL NOTES**

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, PCSM PLAN PREPARER, AND A REPRESENTATIVE FROM THE CITY OF COLUMBUS TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- AT LEAST 48 HOURS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE OHIO UTILITIES PROTECTION SERVICE SHALL BE NOTIFIED AT 1-800-362-2764 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- IT IS THE RESPONSIBILITY OF THE SITE OWNER TO NOTIFY THE CITY OF COLUMBUS TWO WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING, AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATION TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER AND REGULATORY MANAGEMENT SECTION AT (614)-654-6311. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE REGULATION FOR CONTROL OF STORMWATER POLLUTION FROM LAND DISTURBANCE. FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION.
- ALL EARTH DISTURBANCE SHOULD PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. THE SEQUENCE MAY CHANGE.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE
- 10. GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION.
- 12. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN AND FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- CLEAN FILL.
- .4. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- 15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 16. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- 17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORMSEWER, OR SURFACE WATER.
- 18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- 19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES-6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL. EROSION AND SEDIMENT CONTROL GENERAL NOTES
- 20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENTS SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

#### 24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

- 25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER
- 26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE: CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- 27. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN SEVEN DAYS OF REACHING FINAL GRADE. TEMPORARY STABILIZATION OF DISTURBED AREAS THAT WILL BE REWORKED, BUT NOT FOR 14 DAYS OR MORE FROM THE DATE THEY WERE LAST DISTURBED, MUST BE INITIATED WITHIN SEVEN DAYS OF LAST DISTURBANCE.
- 28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- 29. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE
- 30. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- WHEN POSSIBLE, CLEAN ALL CONSTRUCTION EQUIPMENT AND VEHICLES THOROUGHLY BEFORE THEY ARE BROUGHT ON SITE TO REMOVE POTENTIAL INVASIVE PLANT SEEDS THAT MAY HAVE BEEN PICKED UP AT OTHER SITES.
- 32. IF TEMPORARY CONSTRUCTION ENTRANCES (TCES) ARE NEEDED FOR THE PROJECT, THE LOCATION WILL BE DETERMINED AT THE TIME OF CONSTRUCTION. SEE DETAILS IN SECTION 2.5.5 AND FIGURE 16 OF THE NISOURCE ENVIRONMENTAL CONSTRUCTION STANDARDS.
- 33. THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMSC), 2018 EDITION, REVISION (03/01/2018), INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE. [NOTE REVISION AS PER DPU ADMINISTRATOR 10/3/2018]
- 34. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 24-HOURS IN ADVANCE OF ANTICIPATED START OF CONSTRUCTION:

DIVISION OF SEWERAGE AND DRAINAGE (614) 645-7102 DIVISION OF DESIGN AND CONSTRUCTION (CONSTRUCTION SECTION) (614) 645-0433

- 35. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEASE 48 HOURS TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
- 36. CONSTRUCTION OF THIS PROJECT MAY NOT BEGIN UNTIL THE EASEMENTS INDICATED HAVE BEEN RECORDED BY THE CITY.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS 37. THE DEVELOPER/OWNER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION AND WHERE REQUIRED A REPAVING
  - 38. ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ADMINISTRATOR OF THE DIVISION OF SEWERAGE AND DRAINAGE.
  - 39. EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON SHEET NO. EC-01 OF THIS PLAN. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA. 40. IT IS THE RESPONSIBILITY OF THE SITE OWNER TO NOTIFY THE CITY OF COLUMBUS A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATION TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER MANAGEMENT OFFICE AT (614) 645-6700, OR FAX AT (614) 645-1506. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE EROSION AND SEDIMENT POLLUTION CONTROL REGULATION (ADOPTED JUNE 1, 1994). FAILURE TO COMPLY MAY RESULT IN ENFOREMENT ACTION AS DETAILED IN THE COLUMBUS CITY CODES SECTION 1145.80.
  - THE AMOUNT OF FILL WITHIN DESIGNATED FEMA FLOODPLAIN AREAS ONSITE IS O C.Y. THE AMOUNT OF FILL COMPENSATED WITHIN DESIGNATED FEMA FLOODPLAIN AREAS ONSITE IS 0
  - 42. THE PONDING OR DETENTION AREAS ON THE PLANS ARE A PART OF THE STORM SEWER FACILITIES. THE DEVELOPER/OWNER WILL ASSUME THE RESPONSIBILITY TO MAINTAIN THE PONDING OR DETENTION AREAS SO AS NOT TO REDUCE THE WATER STORAGE AREAS. IF THE OWNER DOES NOT MAINTAIN THE PONDING AND DETENTION AREAS, THE PLAN WILL BECOME VOID AND THE CITY WILL PLUG THE SEWER AT THE OUTLET.
  - 43. AS A CONDITION OF FINAL ACCEPTANCE, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT SURVEYS TO TO VERIFY THE FINAL GRADES AND ELEVATIONS OF STORM WATER DETENTION BASINS AND WETLANDS THAT ARE TO BE OWNED AND OPERATED BY THE CITY. AT THE COMPLETION OF HOME CONSTRUCTION, THE OWNER/DEVELOPER SHALL FIELD SURVEY THE STORM WATER DETENTION FACILITY TO VERIFY THAT THE FACILITIES ARE CONSTRUCTED ACCORDING TO APPROVED PLANS. SHOULD A DISCREPANCY BETWEEN THE PLANS AND CONSTRUCTED GRADES EXIST, THE DESIGN STORAGE OF THE DETENTION FACILITY SHALL BE RESTORED BY THE OWNER/DEVELOPER AS DIRECTED BY THE CITY OF COLUMBUS.
  - 44. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.

### INSPECTION AND MAINTENANCE

- NO SOLID OR LIQUID WASTE, INCLUDING BUILDING MATERIALS OR THEIR PACKAGING, SHALL BE DISCHARGED IN STORMWATER RUNOFF.
- CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT DIRECTLY INTO STORM SEWERS, STREAMS OR DRAINAGE CHANNELS.
- WASTE DISPOSAL VIA OPEN BURNING IS PROHIBITED WHERE NOT PERMITTED UNDER THE STATE OF OHIO OPEN BURNING LAWS.
- CONTAMINATED SOILS OR SOILS WHERE CONSTRUCTION SITE CHEMICALS HAVE BEEN SPILLED MUST BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
- STORMWATER THAT COMES IN CONTACT WITH CONTAMINATED SOILS, OR SOLID AND INDUSTRIAL WASTE MUST BE COLLECTED AND DISPOSED OF AS A WASTEWATER.
- 6. FUEL TANKS AND DRUMS OR OTHER CONTAINERS HOLDING CONSTRUCTION SITE CHEMICALS MUST BE STORED WITHIN A DIKED AREA
- SEDIMENT-LADEN TRENCH OR GROUNDWATER MUST PASS THROUGH A SEDIMENT-SETTLING POND, OR BE DEWATERED IN PLACE USING A SUMP PIT, FILTER BAG OR OTHER COMPARABLE METHOD, PRIOR TO BEING DISCHARGED FROM THE SITE.
- GROUND WATER FREE FROM SEDIMENT OR OTHER POLLUTANTS MAY BE DISCHARGED WITHOUT TREATMENT, PROVIDED THIS WATER DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.

### REQUIREMENTS FOR CONTROLS OF OTHER WASTES

- ALL BMPS MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UPSLOPE AREAS THEY CONTROL ARE PERMANENTLY RESTABILIZED.
- QUALIFIED PERSONNEL (PROVIDED BY THE OWNER) MUST INSPECT ALL BMPS AT LEAST ONCE EVERY 7 DAYS AND PRIOR TO AND BY THE END OF THE NEXT CALENDAR DAY (EXCLUDING WEEKENDS AND HOLIDAYS) FOR ANY STORM EVENT WITH GREATER THAN 0.5 INCHES OF RAIN PER 24 HOURS AND DETERMINE IF THE SWP3 HAS BEEN PROPERLY IMPLEMENTED.
- WRITTEN REPORTS SUMMARIZING INSPECTION RESULTS MUST BE MADE AVAILABLE UPON REQUEST. REPORTS MUST INCLUDE: DATE OF INSPECTION, NAME AND QUALIFICATIONS OF THE INSPECTOR, WEATHER CONDITIONS, LOCATIONS WHERE IN-STREAM OR OFF-SITE SEDIMENTATION WAS OBSERVED, LOCATIONS OF BMPS NEEDING MAINTENANCE, LOCATIONS OF BMPS FAILING TO OPERATE CORRECTLY OR PROVIDE ADEQUATE PROTECTION, OR LOCATION OF AREAS IN NEED OF ADDITIONAL BMPS NOT IN PLACE AT THE TIME OF INSPECTION.
- 4. THE REPORTS MUST IDENTIFY INCIDENCES OF NON-COMPLIANCE WITH THE NPDES PERMIT. WHERE A REPORT DOES NOT IDENTIFY INCIDENCES OF NON-COMPLIANCE, THE REPORT MUST CONTAIN A CERTIFICATION THAT THE SITE IS IN COMPLIANCE AT THE TIME OF INSPECTION.
- MAINTENANCE OR REPAIR OF BMPS MUST BE COMPLETED WITHIN 3 DAYS OF THE DATE OF THE INSPECTION THAT REVEALED THEY WERE DEFICIENT. FOR SEDIMENT PONDS, REPAIR OR MAINTENANCE IS REQUIRED WITHIN 10 DAYS OF THE DATE OF THE INSPECTION.
- 6. WHEN INSPECTIONS REVEAL THAT A BMP IS NOT EFFECTIVE AND THAT ANOTHER, MORE APPROPRIATE BMP IS REQUIRED, THE SWP3 MUST BE AMENDED AND THE MORE APPROPRIATE BMP MUST BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION THAT REVEALED THE DEFICIENCY.
- 7. WHEN THE INSPECTION REVEALS THAT A BMP DEPICTED ON THE SWP3 HAS NOT BEEN INSTALLED, BUT IS REQUIRED TO PROVIDE ADEQUATE CONTROL AT THE SITE, IT MUST BE INSTALLED PRIOR TO THE NEXT STORM EVENT, WHICH PRODUCES RUNOFF, BUT IN NO CASE LATER THAN 10 DAYS FROM THE DATE OF INSPECTION, WHICH REVEALED THE DEFICIENCY.
- 8. THE REPORTS MUST BE MAINTAINED FOR THREE (3) YEARS FOLLOWING THE SUBMITTAL OF A NOTICE OF TERMINATION.

#### PAVEMENT CUTTING, SAWING AND EXCAVATION **OPERATIONS NOTE:**

ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT-CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON-STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF ITS MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM). THE REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW-CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV/S) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES. EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

#### **TEMPORARY MAINTENANCE**

IMMEDIATELY SEED DISTURBED AREAS UPON COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR STAGE. UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED SEVEN DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES. SEED TOPSOIL STORAGE AREAS AND STOCKPILES. REFER TO OHIO E&S STANDARDS FOR STORMWATER MANAGEMENT LAND DEVELOPMENT AND URBAN STREAM PROTECTION FOR GUIDANCE TO INCREASE SOIL SUPPLEMENTS BEYOND THE AMOUNTS ESTABLISHED IN THIS PLAN.

#### INLET FILTER PROTECTION

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

#### PERMANENT MAINTENANCE

- 1. PLANT PERMANENT SEED MIXTURES ONLY DURING THE CALENDAR PERIODS IDENTIFIED FOR
- SEEDING. 2. RESEED AREAS THAT DO NOT SHOW ESTABLISHED GROWTH AFTER THIRTY (30) DAYS OF

# PLANTING.

- 1. INSTALL PERMANENT TRENCH PLUGS AT THE LOCATIONS INDICATED ON THE PLANS.
- 2. FILL BAGS WITH APPROVED MATERIAL. DO NOT USE TOPSOIL TO FILL BAGS. IMPERVIOUS TRENCH PLUGS ARE REQUIRED FOR ALL STREAM, RIVER, WETLAND, OR OTHER WATER BODY
- 3. THE PROPERTY OWNER, ITS ADMINISTRATORS, EXECUTORS, SUCCESSORS, HEIRS OR ASSIGNS SHALL MAINTAIN THE STORMWATER CONTROL FACILITY OR FACILITIES IN GOOD WORKING CONDITION ACCEPTABLE TO THE CITY AND IN ACCORDANCE WITH THE SCHEDULE OF LONG-TERM MAINTENANCE ACTIVITIES IN THE STORMWATER CONTROL FACILITY MAINTENANCE PLAN. THE PROPERTY OWNER SHALL MAINTAIN COPIES OF COMPLETE, DATED AND SIGNED INSPECTION CHECKLISTS IN A MAINTENANCE INSPECTION LOG, ALONG WITH RECORDED DATES AND DESCRIPTIONS OF MAINTENANCE ACTIVITIES PERFORMED BY THE PROPERTY OWNER TO REMEDY THE DEFICIENCIES OBSERVED DURING PRIOR INSPECTIONS. THE MAINTENANCE INSPECTION LOG SHALL BE KEPT ON THE PROPERTY AND SHALL BE MADE AVAILABLE TO THE CITY UPON REQUEST. A COPY OF THE MAINTENANCE INSPECTION LOG SHALL BE SUBMITTED ANNUALLY BY DECEMBER 31ST OF EACH YEAR; MAINTENANCE INSPECTION LOGS SHALL BE SUBMITTED TO: CITY OF COLUMBUS DIVISION OF SEWERAGE AND DRAINAGE,

STORMWATER AND REGULATORY MANAGEMENT SECTION 1250 FAIRWOOD AVENUE, COLUMBUS, OHIO 43206

# **NSource**







(380) 799-8503

401 N Front St, Suite 380, Columbus, OH 43215

# **ISSUED FOR PERMIT**

	REVISIONS		
0	06/18/25	ISSUED FOR PERMIT	
REV. #	DATE	DESCRIPTION	

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	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	D. BORCHERDING	06/18/25	303-623-3345
DESIGNED BY	J. ANDERSON	06/18/25	303-623-3345
INTERNAL ENG.	C. MCCULLOUGH		330-596-0111

SITE NAME:

INST# 24-0136951-00 **ABAN#** ----PROJECT ID# 21-78790

RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE: **EROSION CONTROL PLAN NOTES** 

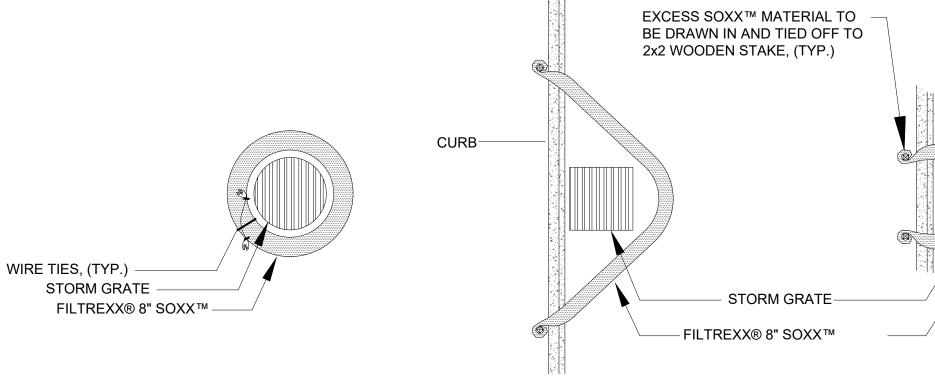
**DRAWING NO:** 

# EROSION AND SEDIMENT CONTROL NARRATIVE

PLAN DESIGNER	CAMPOS EPC 401N. FRONT ST. COLUMBUS, OHIO 43215 CONTACT: LIZ ROCKOW EMAIL: ELIZABETH.ROCKOW@CAMPOSEPC.COM PHONE: 815-641-9294
SITE OWNER	NISOURCE CONTACT INFORMATION: MICHAEL ULKOKO PHONE: 614-981-0661
SITE CONTRACT	BEN LONG BLONG@NISOURCE.COM/ 574.286.6234
PROJECT DESCRIPTION	NISOURCE HAS PURCHASED 214 W WEBER RD, COLUMBUS, OH 43202 AND THE VACANT LOT DIRECTLY TO ITS WEST. IN ADDITION, NISOURCE WILL BE INSTALLING PIPING IN THE CITY OF COLUMBUS' RIGHT OF WAY ON DORRIS AVE., WEST WEBER ROAD, NEIL AVE., AND WEST TULANE ROAD. THE LIMIT OF DISTURBANCE IS 1.58 ACRES. ACTIVITIES WILL INCLUDE DEMOLITION OF CURRENT PROPERTIES ON PARCELS, CLEARING, GRUBBING, GRADING, CONSTRUCTION OF NEW STATIONS, PIPELINE INSTALLATION, ROAD RESTORATION, SEEDING AND STABILIZATION. THE PURPOSE OF THIS SITE IS TO IMPROVE THE NATURAL GAS INFRASTRUCTURE IN THE CITY OF COLUMBUS. PERMANENT INSTALLATION IS EXPECTED DURING THIS PROJECT IN THE FORM OF PIPING, GRAVEL, AND ACCESS DRIVES.
ADJACENT AREA	THE SITE IS SURROUNDED RESIDENTIAL AREA TO THE NORTH, SOUTH, EAST AND WEST
PROJECT SITE AREA	SITE AREA: 0.67 AC TOTAL DISTURBED AREA: 0.67 AC PRE-DEVELOPED IMPERVIOUS AREA: 0.14 AC POST DEVELOPMENT IMPERVIOUS AREA: 0.21 AC
EXISTING SITE CONDITIONS	SITE HAS EXISTING RESIDENTIAL STRUCTURE, LOT TO THE DIRECT WEST IS VACANT AND SEEDED WITH GRASS. ROW AREA IS PAVED WITH SEEDED GRASS ON EITHER SIDE.
SOILS	BENNINGTON-URBAN LAND COMPLEX
RECEIVING STREAM	OLENTANGY RIVER
EROSION AND SEDIMENT CONTROL MEASURES	SEDIMENT FENCE, SEDIMENT SOCK, CONCRETE WASHOUT, CONSTRUCTION ENTRANCE, AND INLET PROTECTIONS WILL BE USED. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE SUBJECT TO CHANGE BASED OF FIELD CONDITIONS
PERMANENT STABILIZATION	THE SITE WILL BE STABILIZED BY THE USE OF SEEDING IN GRASS AREAS, GRAVEL WILL BE USED TO PERMANENTLY STABILIZE THE SITE.
POST-CONSTRUCTION STORM WATER MANAGEMENT	SITE WILL BE PERMANENTLY STABILIZED AND RESEEDED AS NEEDED.
CONSTRUCTION RUNOFF DESTINATION	DRAINAGE AREA IS GOING TO EXISTING INLETS WITHIN ROW. INLET PROTECTION WILL USED FOR ALL INLET IN THE VICINITY OF THE PROJECT. EACH INLET WILL HAVE LESS THAN 1 ACRE OF DRAINAGE AREA.
CONSTRUCTION SEQUENCE  OEPANPDES PERMIT	DEMOLITION OF EXISTING STRUCTURE WILL TAKE PLACE; SITE WILL HAVE A NATURAL GAS STATION INSTALLED. NATURAL GAS STATION WILL HAVE PIPING AND ASSOCIATED SUPPORT STRUCTURES AND ACCESS DRIVE INSTALLED. SITE WILL BE REGRADED AND PERMANENTLY STABILIZED. BEFORE DISTURBANCE, SILT FENCE, CONSTRUCTION ENTRANCE, CONCRETE WASHOUT, AND INLET PROTECTION WILL BE INSTALLED. THE VEGETATION WILL BE CLEARED, EROSION CONTROL BLANKETS WILL BE PLACED AS NEEDED, CONSTRUCTION WILL BEGIN. POST-CONSTRUCTION THE SITE WILL BE PERMANENTLY STABILIZED. ACTIVITIES ON THIS SITE WILL BE INSTALLATION OF A PERIMETER FENCE, SEDIMENT BASINS, SILT FENCE, CONCRETE WASHOUT AND A CONSTRUCTION ENTRANCE UTILIZING THE EXISTING TURN OFF. AFTER STATION IS CONSTRUCTED PIPELINE INSTALLATION IN THE RIGHT OF WAY WILL BEGIN. BEFORE DISTURBANCE, INLET PROTECTION AND SOCK FILTER WILL BE PLACED. DURING CONSTRUCTION, BMP'S WILL BE REGULARLY EVALUATED, MAINTAINED, AND REPLACED AS NEEDED. AFTER INSTALLATION, AREA WILL BE REPAVED/RESEEDED DEPENDING ON THE AREA. BMP'S WILL BE REMOVED FOLLOWING STABILIZATION OF ROW. THE SEQUENCE OF EVENTS:  'THE CONTRACTOR SHALL PLACE THE REQUIRED FENCE, CONSTRUCTION ENTRANCE, AND SEDIMENT FENCE PRIOR TO ANY CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE PLAN DETAILS. 'THE CONTRACTOR SHALL PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL AT ALL TIMES DURING CONSTRUCTION OPERATIONS.  'THE CONTRACTOR SHALL PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL AT ALL TIMES DURING CONSTRUCTION OPERATIONS.  'THE CONTRACTOR SHALL PROPERLY MAINTAIN ALL EROSION DEVICES ONLY AFTER ALL AREAS HAVE BEEN STABILIZED AND RESEEDED. THE CONTRACTOR SHALL CLEAN ALL EXISTING INLETS AND STORM SEWER INLETS. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION DEVICES ONLY AFTER ALL AREAS HAVE BEEN STABILIZED AND RESEEDED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION DEVICES ONLY AFTER ALL AREAS HAVE BEEN STABILIZED AND RESEEDED. THE CONTRACTOR SHALL CLEAN ALL EXISTING INLETS AND STORM SEWER INLETS.
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#### NOTES:

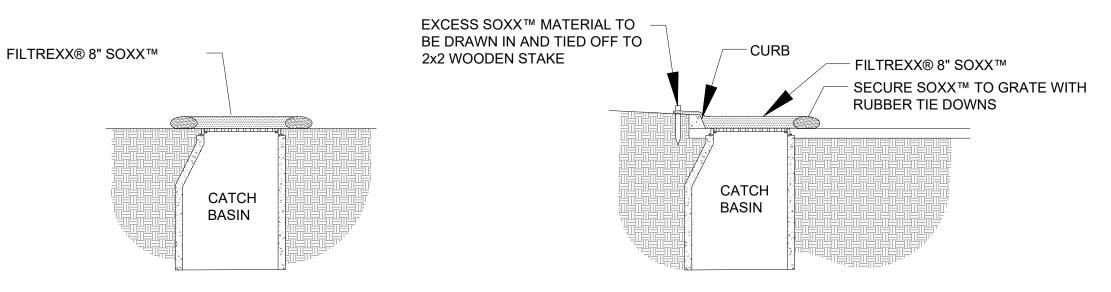
- 1. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.
- 2. THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT. APPLIES TO ALL SWP3 PLAN REVIEW PAGES.
- 3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
- 4. UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING OR SIMILAR GEO-TEXTILE.
- 5. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE
- DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA. 6. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE
- APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL. 7. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.
- 8. THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL
- 9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE. ADDITIONALLY: THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE, THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.
- 10. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW





**CURBSIDE OPTION "A" PLAN** 

**CURBSIDE OPTION "B" PLAN** 



# **DRAIN INLET SECTION**

# **CURBSIDE SECTION**

- 1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
- 2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS. 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
- FILTREXX® INLET PROTECTION









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401 N Front St, Suite 380, Columbus, OH 43215 (380) 799-8503

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		REVISIONS
	06/18/25	ISSUED FOR PERMIT
REV. #	DATE	DESCRIPTION

	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	D. BORCHERDING	06/18/25	303-623-3345
DESIGNED BY	J. ANDERSON	06/18/25	303-623-3345
INTERNAL ENG.	C. MCCULLOUGH	06/18/25	330-596-0111

SITE NAME:

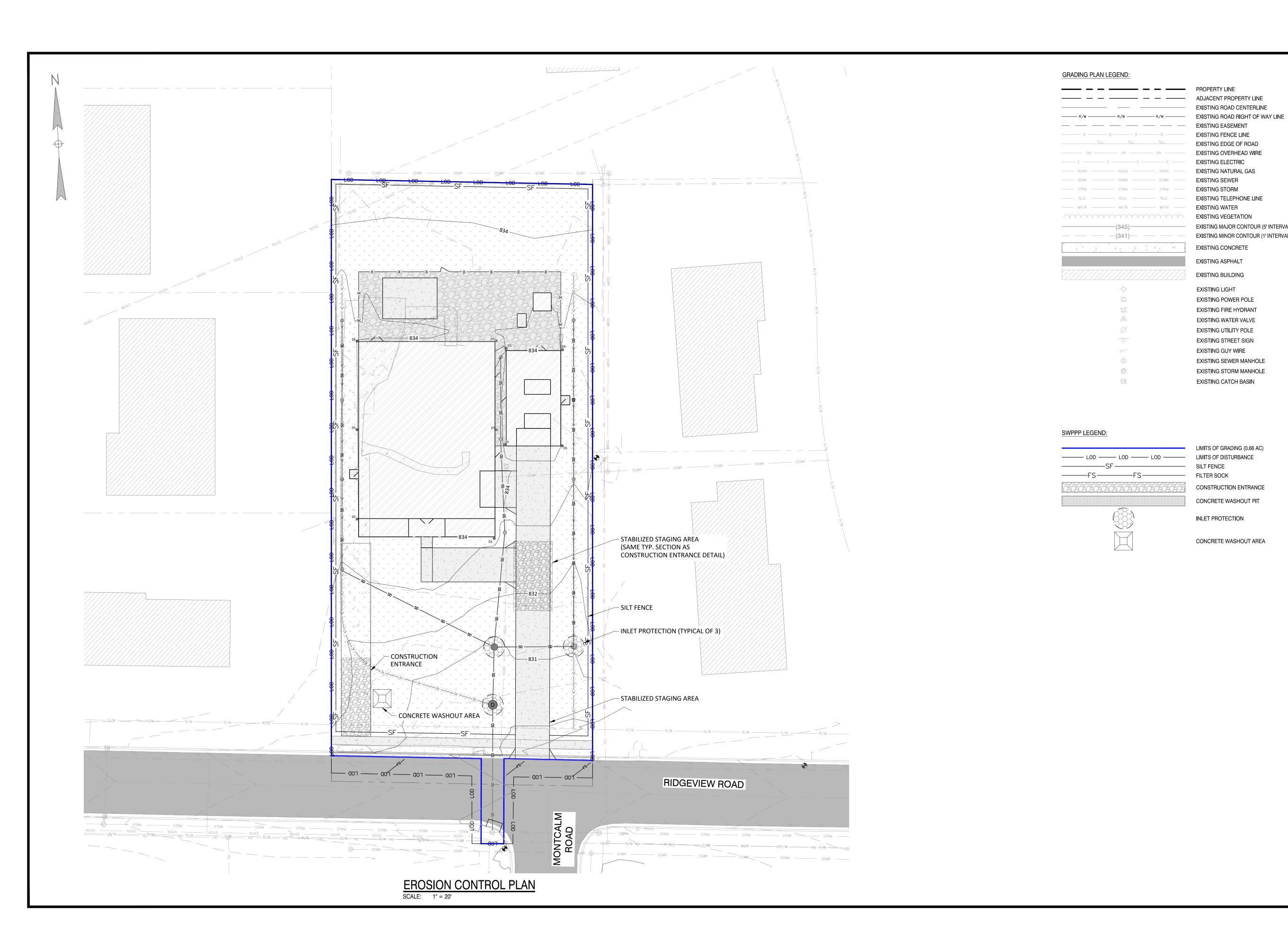
INST# 24-0136951-00 **ABAN#** ----PROJECT ID# 21-78790

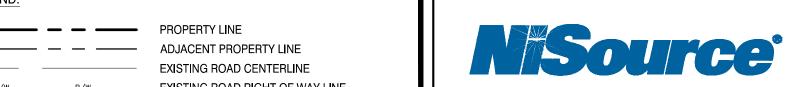
RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE: **EROSION CONTROL** 

DRAWING NO:

PLAN NOTES





EXISTING ROAD CENTERLINE

EXISTING EDGE OF ROAD EXISTING OVERHEAD WIRE EXISTING ELECTRIC EXISTING NATURAL GAS EXISTING SEWER EXISTING STORM

EXISTING TELEPHONE LINE

EXISTING MAJOR CONTOUR (5' INTERVALS) EXISTING MINOR CONTOUR (1' INTERVALS)

EXISTING VEGETATION

EXISTING CONCRETE

EXISTING ASPHALT

EXISTING BUILDING

**EXISTING POWER POLE** EXISTING FIRE HYDRANT EXISTING WATER VALVE EXISTING UTILITY POLE EXISTING STREET SIGN EXISTING GUY WIRE

EXISTING SEWER MANHOLE EXISTING STORM MANHOLE EXISTING CATCH BASIN

CONSTRUCTION ENTRANCE

CONCRETE WASHOUT AREA

CONCRETE WASHOUT PIT

INLET PROTECTION

EXISTING LIGHT







401 N Front St, Suite 380, Columbus, OH 43215 (380) 799-8503

**ISSUED FOR PERMIT** 

		REVISION	S	
0	06/18/25	ISSUED FOR	PERMIT	
REV.#	DATE	DE	SCRIPTION	ON
INTERNAL E	NG. C. MC	CULLOUGH	06/18/25	330-596-0111

J. ANDERSON 06/18/25 303-623-3345 D. BORCHERDING 06/18/25 303-623-3345 NAME DATE PHONE #

SITE NAME:

INST# 24-0136951-00 ABAN# ----

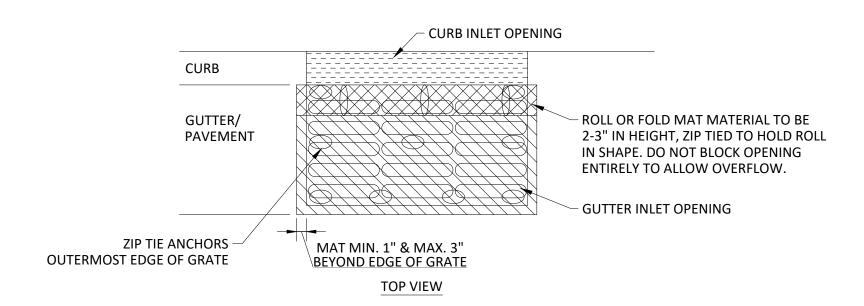
PROJECT ID# 21-78790

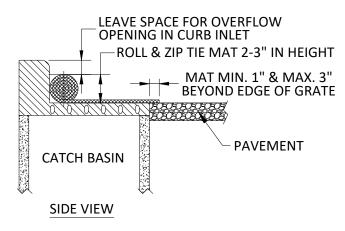
RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:

**EROSION CONTROL PLAN** 

DRAWING NO:





#### NOTES

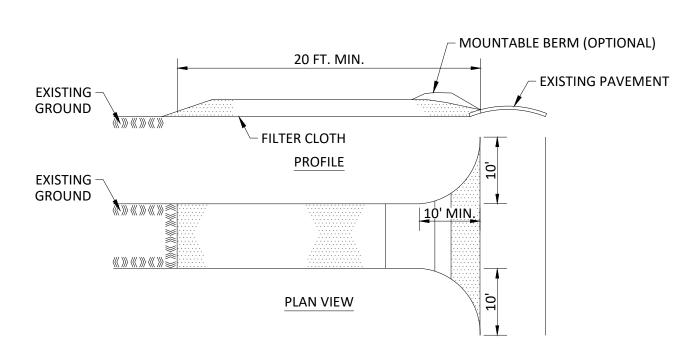
1. THE NUMBER OF ZIP TIES REQUIRED VARIES DEPENDING ON SIZE OF GRATE. FOLLOW MFG. INSTRUCTIONS FOR QUANTITY AND/OR SPACING OF TIES.

2. THE ROLLED OR FOLDED PORTION OF MAT PROTECTING THE CURB OPENING MUST BE AS TIGHT AGAINST THE CURB AS POSSIBLE TO PREVENT RUN-OFF FROM FLOWING BEHIND OR UNDER FILTER MEDIA

3. DO NOT COMPLETELY OBSTRUCT THE CURB INLET WITH ROLLED OR FOLDED PORTION OF MAT TO ALLOW FOR OVERFLOW.

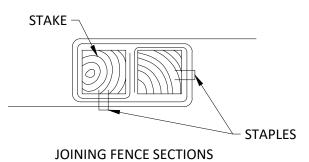
4. WHERE FREQUENT STREET FLOODING OCCURS OR IS A CONCERN, AN OVERFLOW HOLE MAY BE CUT INTO THE CENTER OF THE MAT WITH WRITTEN APPROVAL OF MS4 & NISOURCE ENVIRONMENTAL.

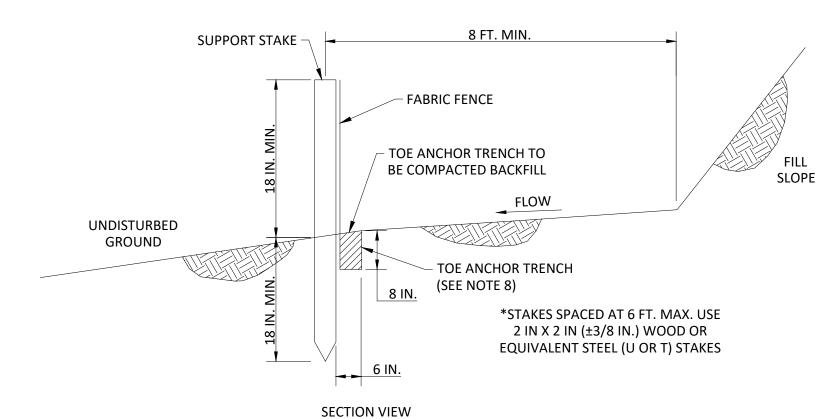
5. USE OF MATS WITH OVERFLOW HOLES MANUFACTURED AND INTEGRAL TO THE DESIGN OF THE MAT ARE APPROVED FOR USE.



# CONSTRUCTION SPECIFICATIONS

- 1. STONE SIZE USE 2 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. LENGTH AS REQUIRED.
- 2. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 3. WIDTH TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 4. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 5. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 6. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 7. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.





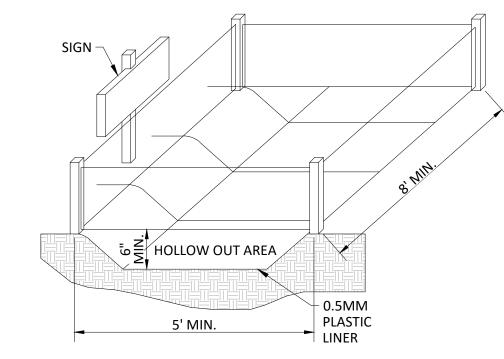
# MAXIMUM SLOPE LENGTH FOR SILT FENCE

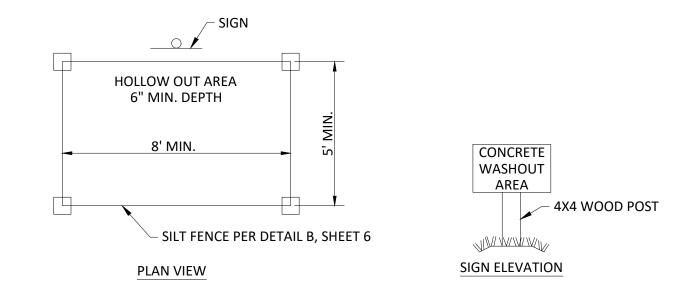
W/ WIII OW SECTE LENGTH FOR SIET FERGE			
MAXIMUM SLOPE LENGTH (FT.) ABOVE FENCE			
STANDARD (18" HIGH) SILT FENCE			
100			
50			
25			
15			
10			

#### NOTES

- 1. FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS REQUIRED BY STATE SPECIFIC SPECIFICATIONS. FABRIC SHALL BE IN USE NO LONGER THAN THE MANUFACTURERS RECOMMENDED LIFE SPAN AND SHALL BE REPLACED WITH NEW FABRIC AFTER THE LIFE SPAN HAS BEEN EXCEEDED.
- 2. FABRIC WIDTH SHALL BE 30 IN. MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.
- 3. SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
- 4. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.
- 5. ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (FIGURE 18).
- 6. FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.
- 7. SILT FENCE THAT HAS BECOME CLOGGED WITH SEDIMENT AND CAN NO LONGER BE CLEANED SHALL BE REPLACED.
- TOE ANCHOR TRENCH MEASUREMENTS MAY BE REDUCED IN STATE SPECIFIC INSTANCES: VIRGINIA = 4" VERT. x 4" HORZ.
  PENNSYLVANIA & KENTUCKY = 6" VERT. x 6" HORZ.
  INDIANA = 8" VERT. x 4" HORZ.

OHIO, MASSACHUSETTS & MARYLAND = 8" VERT.





### NOTES:

- 1. CONCRETE TRUCKS SHALL UTILIZE AREAS TO WASHOUT TRUCKS.
- 2. ACCUMULATED CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED PROPERLY.
- 3. PLACE PLASTIC LINER OVER THE ENTIRE HOLLOW OUT AREA PRIOR TO USE.
- 4. PROVIDE ITEMS NOTED ABOVE INCLUDING REMOVAL OF CONCRETE WASHOUT UPON COMPLETION OF THE PROJECT AS NOTED IN THE BID PRICE FOR THE PROJECT.
- 5. FILL HOLLOW AREA TO A DEPTH OF 4 TO 6 INCHES WITH CMSC ITEM 703 AGGREGATE, SIZE #57, #2, OR #4.
- 6. USE OF ROLL AWAY OR OTHER PORTABLE CONTAINERS IS AN ACCEPTABLE ALTERNATIVE (AND HIGHLY ENCOURAGED) PROVIDED THEY ARE USED IN ACCORDANCE WITH NPDES GUIDELINES ON CONCRETE WASHOUT.









# **ISSUED FOR PERMIT**

(380) 799-8503

		REVISIONS		
0	06/18/25	ISSUED FOR PERMIT		
REV. #	DATE	DESCRIPTION		

D. BORCHERDING	06/18/25	303-623-3345
J. ANDERSON	06/18/25	303-623-3345
C. MCCULLOUGH	06/18/25	330-596-0111
-	J. ANDERSON	J. ANDERSON 06/18/25

SITE NAME:

INST# 24-0136951-00 ABAN# ----

PROJECT ID# 21-78790

RIDGEVIEW STATION
UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:
EROSION CONTROL

DRAWING NO:

C-11

**DETAILS** 

# **APPENDIX D - STRUCTURAL DRAWINGS**

STRUCTURAL DRAWING INDEX			
DWG No.	REV	DRAWING TITLE	
D-01	0	STRUCTURAL DRAWING INDEX	
D-02	0	STRUCTURAL GENERAL NOTES	
D-03	0	STRUCTURAL BILL OF MATERIAL	
D-04	0	OVERALL STRUCTURAL PLAN	
D-05	0	DRIVEWAY AND SIDEWALK ENLARGED DETAILED PLAN	
D-06	0	STRUCTURAL SECTIONS AND DETAILS - FILTER SEPARATOR SUPPORT	
D-07	0	STRUCTURAL SECTIONS AND DETAILS - BOILER/HEATER	
D-08	0	STRUCTURAL SECTIONS AND DETAILS - SCADA BUILDING PAD	
D-09	0	STRUCTURAL SECTIONS AND DETAILS - GENERATOR PAD	







(303) 623-3345

**PROPOSED** 

		REVISIONS
0	06/18/2025	ISSUED FOR BID
REV.#	DATE	DESCRIPTION

	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	A. TOMBO	09/13/24	772-801-9684
DESIGNED BY	H.ROQUE	09/13/24	470-322-4636
INTERNAL ENG.	H.ROQUE	09/13/24	470-322-4636

SITE NAME:

INST# 24-0136951-00 ABAN# XX-XXXXXXXX-XX PROJECT ID# 21-78791

NEW BRANDON ROAD, RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:

STRUCTURAL DRAWING INDEX

DRAWING NO:

D-01

### EARTHWORK AND CONCRETE CONSTRUCTION NOTES / SPECIFICATIONS

### A. GENERAL SITE INFORMATION

- DESIGN CODE = 2024 OHIO BUILDING CODE, RISK CATEGORY = IV. FRANKLIN COUNTY, OH.
- 2. SNOW LOAD = 20 PSF
- 3. WIND SPEED = V = 119 MPH; EXPOSURE = "C" (CONSERVATIVE) ULT
- 4. SITE CLASS = "D" S<sub>s</sub>: 0.119 F<sub>a</sub>: 1.6 S<sub>D1</sub>: 0.096  $\gt$  SEISMIC DESIGN CATEGORY (SDC) = C; I = 1.50 6. SEISMIC DESIGN ENVELOPE PARAMETERS; S<sub>1</sub>: 0.06 F<sub>V</sub>: 2.4 S<sub>DS</sub>: 0.127
- EARTHWORK AND FOUNDATION CONSTRUCTION
- FOUNDATION CONSTRUCTION AND SITE PREPARATION METHODS SHALL FOLLOW RECOMMENDATIONS OUTLINED IN THE 2024 OHIO BUILDING CODE. SPECIFIC REQUIREMENTS ARE AS FOLLOWS:
- a. FOUNDATION SYSTEM: SHALLOW SPREAD FOOTINGS.
- b. FROST DEPTH: 32 IN.
- c. SOIL ENGINEERING DESIGN PARAMETERS: NO SITE SPECIFIC GEOTECH REPORT EXISTS. IT IS POSSIBLE THE SITE NATIVE SOILS MAY EXHIBIT SHRINKAGE/SWELLING DEPENDING ON WATER LEVEL ON SOIL. CONTRACTOR SHALL NOTIFY ENGINEERING OF SOILS ENCOUNTERED DURING EXCAVATION ACTIVITIES FOR FOOTERS TO DETERMINE IF ADDITIONAL EXCAVATION AND BACKFILL IS REQUIRED TO MITIGATE SHRINK/SWELL POTENTIAL
- d. PRESUMPTIVE CLAY AS PER TABLE IBC 1806.2 CLASS 5 (1,500 psf.). CONTRACTER SHALL NOTIFY ENGINEERING OF SITE SOIL CONDITIONS THAT MAY AFFECT FOUNDATION PERFORMANCE NEGATIVELY SUCH AS BUT NOT LIMITED TO: MUDDY OR SATURATED SOIL, FROZEN SOIL, ORGANICS, PEAT OR UNPREPARED FILL.
- COMPACTION CRITERIA FOR FOUNDATIONS: UNLESS OTHERWISE DICTATED BY ONSITE GEOTECHNICAL PERSONNEL, MINIMUM COMPACTION CRITERIA FOR PREPARED SUBGRADE SHALL BE 100% STANDARD PROCTOR MAXIMUM DRY DENSITY. FOOTINGS SHALL BEAR ON A 12" THICK MIN. LAYER OF ODOT ITEM 304 GRANULAR MATERIAL FILL UNLESS NOTED OTHERWISE.

#### EXCAVATION AND BACKFILL:

- a. ALL EXCAVATION AND GRADING WORK FOR FOUNDATIONS SHALL CONFORM TO THE SPECIFICATIONS HEREIN AND ALL LOCAL, COUNTY, STATE, AND FEDERAL LAWS AND REGULATIONS. ENTIRE AREA AROUND EACH FOUNDATION MUST BE THOROUGHLY PROBED FOR UNDERGROUND PIPE, CONDUIT, HIGH PRESSURE LINES, ETC. BEFORE ANY EXCAVATION BEGINS.
- b. WHENEVER POSSIBLE, EXCAVATION FOR CONCRETE FOUNDATION SHALL BE NEATLY CUT TO THE EXACT SIZE SPECIFIED.
- c. IF THE GROUND WATER LEVEL IS FOUND TO BE ABOVE THE BOTTOM OF THE FOUNDATION EXCAVATION, THE FOLLOWING PROCEDURE SHALL BE FOLLOWED:
- I. EXCAVATE THE FOUNDATION 1' BELOW THE BOTTOM OF THE CONCRETE FOUNDATION AND 1' BEYOND THE FOUNDATION BASE ON EACH SIDE.
- II. THE WATER SHALL BE REMOVED FROM THE EXCAVATED FOUNDATION. CONTRACTOR SHALL KEEP EXCAVATED FOUNDATION FREE OF
- WATER AT ALL TIMES UNTIL THE BASE HAS BEEN PREPARED TO THE FINISHED ELEVATION OF THE FOUNDATION BASE.
- III. PLACE WOVEN GEOTEXTILE FABRIC MIRAFI 600X OR EQUAL 1' BEYOND THE FOUNDATION BASE ON EACH SIDE. IV. PLACE 12" OF CLASS II AGGREGATE BASE IN TWO SEPARATE 6" LIFTS, COMPACT TO 95% OF THE MAX DRY DENSITY PER ASTM D1557.
- V. BEFORE PLACING THE FORMS, REBAR AND CONCRETE POUR, THE CONTRACTOR SHALL KEEP THE EXCAVATED FOUNDATION FREE OF WATER.
- d. DURING AND UPON COMPLETION OF THE INSTALLATION OF ANY FOUNDATION, THE WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER OR THEIR REPRESENTATIVE BEFORE THE EXCAVATION IS BACKFILLED. AFTER SUCH APPROVAL, THE EXCAVATION, UNLESS REQUIRED TO BE LEFT OPEN FOR GOOD CAUSE, SHALL BE PROMPTLY BACKFILLED IN A SATISFACTORY MANNER PROVIDED THE FOUNDATION HAS ATTAINED SUFFICIENT STRENGTH.
- e. FORMS SHALL NOT BE STRIPPED UNTIL 3 DAYS AFTER THE POUR OR CONCRETE STRENGTH REACHES 75% F'C. WHICHEVER OCCURS LATER.
- STRUCTURAL BACKFILL SHALL CONSIST OF GRANULAR NON-EXPANSIVE SAND, GRAVEL AND SAND-GRAVEL MIXTURES, WITH PLASTICITY INDEX OF 15% OR LESS, WITH 100% LESS THAN 4" SIZE ROCK AND MAX. 30% PASSING NO. 200 SIEVE. IT SHALL BE PLACED IN 8" MAX. LIFTS.
- SUBGRADE CONDITIONS SHOULD BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF ANY CONCRETE. STRUCTURAL FILL SHALL BE INSPECTED AND TESTED.

EXPOSURE CATEGORY & CLASS									
	C CORROSION PROTECTION		P PERMEABILITY	f 'c AT 28 DAYS	CEMENT TYPE	W/C RATIO (MAX.)	AIR CONTENT	MAX SLUMP	OTHER PROVISIONS
F2	C1	S0	P0 TO P1	4500 psi	ll ll			ALL CONC DRILLED PIERS	

# LEAN CONCRETE SHALL BE (F'C) <1500 psi

- AGGREGATES SHALL BE CRUSHED STONE CONFORMING TO "SPECIFICATION FOR CONCRETE AGGREGATES" ASTM C33.
- WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.
- REINFORCING BARS SHALL BE DEFORMED, INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO ASTM A615 (ASTM A706 OR ASTM A615 MEETING THE REQUIREMENTS OF ACI-318, SECTION 21.1.5.2) GRADE 60. FIELD SPLICES AND DEVELOPMENT LENGTH SHALL COMPLY WITH THE FOLLOWING SCHEDULE, UNLESS NOTED OTHERWISE:

BAR SIZE	BAR	TOP	OTHER
DAR SIZE	DIA	BAR	OTHER
#3	.375"	15"	12"
#4	.500"	20"	15"
#5	.625"	26"	20"
#6	.750"	29"	23"
#7	.875"	47"	36"
#8	1.00"	61"	47"
#9	1.125"	77"	59"
#10	1.27"	97"	75"
#11	1.41"	120"	92"

# REINFORCEMENT SHALL BE INSPECTED BEFORE CONCRETE IS PLACED

- 7. CONCRETE PROTECTION FOR REINFORCEMENT CLEAR DISTANCE FROM FACE OF CONCRETE TO BAR SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.
- a. CONCRETE DEPOSITED AGAINST GROUND OR VOID FORM: 3".
- b. CONCRETE SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH GROUND AFTER REMOVAL OF FORMS: 1 1/2" FOR #5 BARS AND SMALLER, 2. B.O.C. EL. INDICATES BOTTOM OF CONCRETE ELEVATION.
- c. SURFACES NOT EXPOSED TO GROUND OR WEATHER: 3/4" FOR SLABS AND WALLS WITH #11 AND SMALLER BARS. 1 5/8" FOR BEAMS AND COLUMNS.
- 8. EXPANSION JOINT MATERIAL FOR EXPANSION OR ISOLATION JOINTS SHALL BE PREMOLDED, BITUMINOUS IMPREGNATED FIBERBOARD.CONFORMING TO ASTM D994. JOINT THICKNESS SHALL BE 1/2" UNLESS NOTED OTHERWISE ON DESIGN DRAWINGS.
- 9. JOINT SEALANT FOR ALL CONCRETE CONTROL, CONSTRUCTION AND ISOLATION JOINTS SHALL BE SIKAFLEX-1A BY SIKA CORP., OR APPROVED EQUAL.
- 10. GROUT USED FOR VARIOUS APPLICATIONS SHALL BE AS FOLLOWS:
- a. GROUT USED FOR STRUCTURAL STEEL COLUMN BASE PLATES SHALL BE PREPACKED, HIGH-FLUIDITY NON-SHRINK, NATURAL AGGREGATE GROUT SUCH AS "MASTERFLOW 713 PLUS" BY BASF (FORMERLY MASTER BUILDERS) OR APPROVED EQUAL. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. SPACE BETWEEN THE ANCHOR RODS AND OVERSIZED HOLES IN THE BASE PLATE SHALL BE FULLY GROUTED WITH NON-SHRINK GROUT TO ASSURE PROPER SHEAR TRANSFER. GROUTING SHALL BE PERFORMED ONE BOLT AT A TIME, WHILE OTHER BASE PLATE RODS ARE FULLY TIGHTENED.
- b. GROUT USED FOR GROUTING COMPRESSORS, TURBINES, LARGE PUMPS, AND OTHER RECIPROCATING OR ROTATING EQUIPMENT THAT REQUIRES EPOXY GROUTING AS SHOWN ON DESIGN DRAWINGS SHALL BE "FIVE STAR HP" EPOXY GROUT BY FIVE STAR PRODUCTS, INC. OR APPROVED EQUAL, FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.
- c. GROUT USED FOR DRILLED AND EPOXY-GROUTED REBARS SHALL BE HILTI HIT-RE-500-SD EPOXY OR APPROVED EQUAL.
- 11. COLUMN BASE PLATE GROUT PROCEDURE:
- SELECT A NON-SHRINK, NON-METALLIC GROUT DESIGNED FOR DAMP PACKING, BASF CONSTRUCTION GROUT OR OWNER APPROVED EQUAL. FOLLOW ALL MFGR.'S INSTRUCTIONS. APPLY GROUT BETWEEN THE TEMPERATURE RANGE OF 50 TO 90 DEG. F.
- b. BUSH HAMMER AND CLEAN CONCRETE SURFACE WHERE GROUT WILL BE APPLIED.
- c. CLEAN ALL SURFACES TO BE GROUTED.
- d. SATURATE CONCRETE SURFACES WITH CLEAN WATER 24 HOURS BEFORE GROUTING, REMOVE WATER IMMEDIATELY BEFORE APPLICATION.
- e. PLACE TIGHT AND SECURE FORMS ON ALL SIDES EXCEPT THE SIDE WHERE THE GROUT WILL BE APPLIED.
- f. MIX THE GROUT FOLLOWING MFGR.'S INSTRUCTIONS, THE GROUT SHOULD BE DAMP ENOUGH THAT IT CAN BE MOLDED INTO A BALL, THE BAL SHOULD NEITHER SLUMP NOR CRUMBLE DUE TO LACK OF MOISTURE.
- g. PLACE GROUT IMMEDIATELY AFTER MIXING, RAMMING UNDER THE BASE PLATE WITH A WOODEN DOWEL, WORKING AT AN ANGLE TO THE CORNERS TO ENSURE EVEN COMPACTION.
- h. REMOVE FORMS, SHAPE 45 DEG. BEVEL TO CONCRETE SURFACE ALL SIDES.
- i. CURE 8 HOURS KEEPING MOIST WITH BURLAP, ETC.
- 12. VOID FORM MATERIAL SHALL BE "SURE VOID" OR APPROVED EQUAL. KEEP VOID FROM MATERIAL DRY DURING PLACEMENT AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. VOID FORM SHALL BE BIODEGRADABLE AND CAPABLE OF SUPPORTING THE FLUID WEIGHT OF THE CONCRETE.
- 13. ALL WELDING PROCEDURES, INCLUDING STUD WELDING, AND QUALIFICATIONS SHALL BE IN ACCORDANCE WITH AWS D1.1.
- 14. ALL WALKS AND EXTERIOR SLABS SHALL BE LIGHT BROOM FINISHED AFTER CONCRETE HAS RECEIVED A FLOAT FINISH. FOLLOW ACI 301 PROCEDURES.
- 15. EXPOSED CORNERS SHALL BE CHAMFERED 3/4" UNLESS NOTED.
- 16. CHECK ALL ELECTRICAL, MECHANICAL AND PIPING DRAWINGS FOR EMBEDDED ITEMS (PIPE, CONDUIT, ETC.) AND BLOCKOUTS BEFORE PLACING CONCRETE.
- 17. IF REINFORCING OR MESH IS FIELD CUT FOR SMALL OPENINGS, CONDUIT, ELECTRICAL BOXES, ETC. CUT REINFORCING SHALL BE REPLACED WIT AN EQUIVALENT AREA OF STEEL. ALL SUCH BARS SHALL EXTEND 24" MINIMUM (OR MESH LAP 2") BEYOND CORNER OR EDGE OF OPENING IF NECESSARY. REINFORCING SHALL BE BENT TO PROVIDE THIS MINIMUM EMBEDMENT. MAKE ALL BARS CONTINUOUS AROUND CORNERS.
- 18. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT ANCHOR ROD DIMENSIONS AGAINST THE CERTIFIED EQUIPMENT DRAWINGS BEFORE PLACING CONCRETE. TOLERANCES FOR ANCHOR ROD LOCATIONS AND ELEVATIONS SHALL BE AS DEFINED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) CODE OF STANDARD PRACTICE.
- 19. ALL WATER STOP SHALL BE BENTONITE FLEXIBLE STRIP WATERSTOP BY VOLCLAY OR APPROVED EQUAL
- 20. CONCRETE MIX DESIGN AND REBAR SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER-OF-RECORD FOR APPROVAL PRIOR TO CONSTRUCTIO
- CONTRACTOR'S MEANS AND METHODS.
- THE STRUCTURAL DRAWINGS AND NOTES REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. FO THIS REASON, DURING ERECTION OF THE STRUCTURE AND/OR THE DEMOLITION OF THE STRUCTURE OR PORTIONS OF THE STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY BRACING TO WITHSTAND ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING LATERAL LOADS, EXCAVATIONS, SHORING, STOCKPILES OF MATERIALS AND EQUIPMENT, IN ADDITION TO ANY WORKER SAFETY REQUIREMENTS. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS IT MAY BE REQUIRED FOR SAFETY AND UNTIL ALL STRUCTURAL FRAMING AND DIAPHRAGMS ARE IN PLACE WITH CONNECTIONS COMPLETED DISCOVERY.
- 2. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS OR AS BUILT DIMENSIONS WHICH ARE NOT NOW KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION (DISCOVERY). SUCH CONDITIONS MAY INTERFERE WITH CONSTRUCTION OR REQUIRE PROTECTION AND / OR SUPPORT OF EXISTING WORK DURING CONSTRUCTION, OR MAY CONSIST OF DAMAGE OR DETERIORATION TO THE STRUCTURAL MATERIALS OR COMPONENTS WHICH COULD JEOPARDIZE THE INTEGRITY OF THE STRUCTURE(S) RELATED TO SUCH DISCOVERIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCOVERY HE OR SHE IDENTIFIES THAT MAY INTERFERE WITH THE PROPER EXECUTION OF THE WORK OR JEOPARDIZE THE INTEGRITY OF THE STRUCTURE(S) PRIOR TO PROCEEDING WITH WORK RELATED TO SUCH DISCOVERIES.

# D. CONTRACTOR'S COORDINATION

- 1. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BETWEEN ALL TRADES, SUBCONTRACTORS AND VENDOR SUPPLIED EQUIPMENT PRIOR TO COMMENCING ANY CONSTRUCTION. THE STRUCTURAL ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY INCONSISTENCIES RELATING TO THE STRUCTURE. FAILURE TO DO SO SHALL RELIEVE THE STRUCTURAL ENGINEER OF ALL CONSEQUENCES RELATED TO THE INCONSISTENCY.
- 2. SEE MECHANICAL, ELECTRICAL AND OTHER DISCIPLINE'S DRAWINGS FOR ADDITIONAL INFORMATION RELATING TO THE STRUCTURE.

#### DRAWING CONVENTIONS

- T.O.C. EL. INDICATES TOP OF CONCRETE ELEVATION.
- SCALES NOTED ON DRAWINGS ARE ACCURATE FOR FULL-SIZE (24x 36) DRAWINGS ONLY.

#### SCHEDULE OF CIVIL INSPECTIONS / SPECIAL INSPECTIONS (AS APPLICABLE)

INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. IF A TASK IS TO TAKE LONGER THAN THREE (3) DAYS, PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, AND THE ENGINEER OF RECORD. INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN/HOW RESOLVED.

CIVIL INSPECTIONS ARE DEFINED HEREIN AS INSPECTIONS OF EARTHWORK, FOUNDATION CONSTRUCTION AND CONCRETE CONSTRUCTION.

### INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION

			FREQUENCY	OF INSPECTION	
L	INSPECTION REQUIRED Y/N	VENIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED		REFERENCED STANDARD
	Y	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT.		Х	ACI 318: 3.5, 26.6
	N	2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.		Х	AWS D1.4 ACI 318: 26.6.4
	Υ	3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.		Х	ACI 318: 26.7
	Y	4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		Х	ACI 318: 26.7
	Υ	5. VERIFICATION OF ANCHOR MATERIAL CERTIFICATIONS.		Х	AISC 360
	Υ	6. VERIFYING USE OF REQUIRED DESIGN MIX.		Х	ACI 318: 26.4
Η	Υ	7. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х		ASTM C 172 ASTM C 31 ACI 318: 26.12,26.13
	Υ	8. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х		ACI 318: 26.5
	Y	9. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		Х	ACI 318: 26.5.3
٧.	Y	10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORING AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		Х	ACI 318: 26.11
R	Υ	11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		Х	ACI 318: 26.11

# INSPECTION AND VERIFICATION OF SOILS

		FREQUENCY OF	INSPECTION
INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
Υ	1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE DESIRED BEARING CAPACITY.		Х
Υ	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	1	Х
Υ	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		Х
Υ	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	
Υ	5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		Х







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			•
	NAME	DATE	PHONE #
AS-BUILT BY			
CHECKED BY	A. TOMBO	09/13/24	772-801-968
DESIGNED BY	H. ROQUE	09/13/24	470-322-463
NTERNAL ENG.	H. ROQUE	09/13/24	470-322-463

SITE NAME:

INST# 24-0136951-00 ABAN# XX-XXXXXXXXXXXX PROJECT ID# 21-78791 NEW BRANDON ROAD, RIDGEVIEW STATION

UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:

STRUCTURAL GENERAL NOTES

DRAWING NO:

				PIPE SUPPORT BILL OF MATERIALS	
ITEM	QTY	UNIT	SIZE	DESCRIPTION	MECH. B.O.M ITEM
400	AS REQ'D	CY	4,500 PSI	CONCRETE, 4,500 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH	-
401	AS REQ'D	LB	#4	REBAR, ASTM A615, GR60	-
402	AS REQ'D	LB	#5	REBAR, ASTM A615, GR60	-
403	AS REQ'D	LB	#6	REBAR, ASTM A615, GR60	-
404	8	EA	2"	E-Z LINE, MODEL NO. 204 ADJUSTABLE PIPE SUPPORT; REF. MECH. B.O.M.	-
405	36	EA	1/2"x8"	HILTI HAS-V-36, HOT DIP GALVANIZED, ANCHOR ROD W/ HILTI HIT-RE-500 V3	-
406	72	EA	1/2"	HEAVY HEX NUT, ASTM A563 GR C	-
407	36	EA	1/2"	WASHER, ASTM F436	-
408	12	EA	5/8"x12"	HILTI HAS-V-36, HOT DIP GALVANIZED, ANCHOR ROD W/ HILTI HIT-RE-500 V3	
409	24	EA	5/8"	HEAVY HEX NUT, ASTM A563 GR C	-
410	12	EA	5/8"	WASHER, ASTM F436	-
411	4	EA	1"x14"	HILTI HAS-V-36, HOT DIP GALVANIZED, ANCHOR ROD W/ HILTI HIT-RE-500 V3	-
412	8	EA	1"	HEAVY HEX NUT, ASTM A563 GR C	-
413	4	EA	1"	WASHER, ASTM F436	-







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	NAME	DATE	PHONE #
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CHECKED BY	A. TOMBO	09/13/24	772-801-9684
DESIGNED BY	H. ROQUE	09/13/24	470-322-4636
INTERNAL ENG.	H.ROQUE	09/13/24	470-322-4636

SITE NAME:

# INST# 24-0136951-00 ABAN# XX-XXXXXXXX-XX PROJECT ID# 21-78791

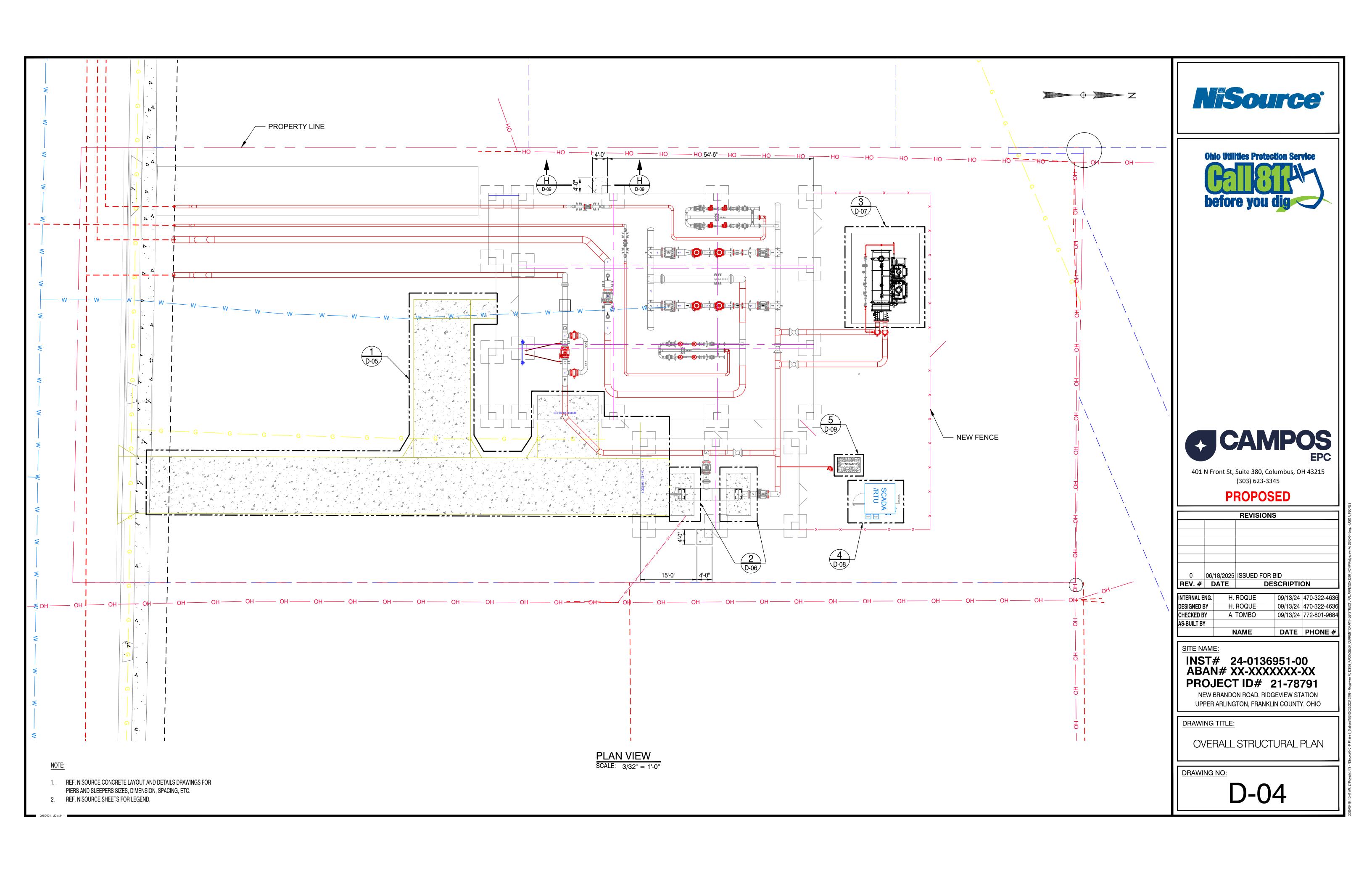
NEW BRANDON ROAD, RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:

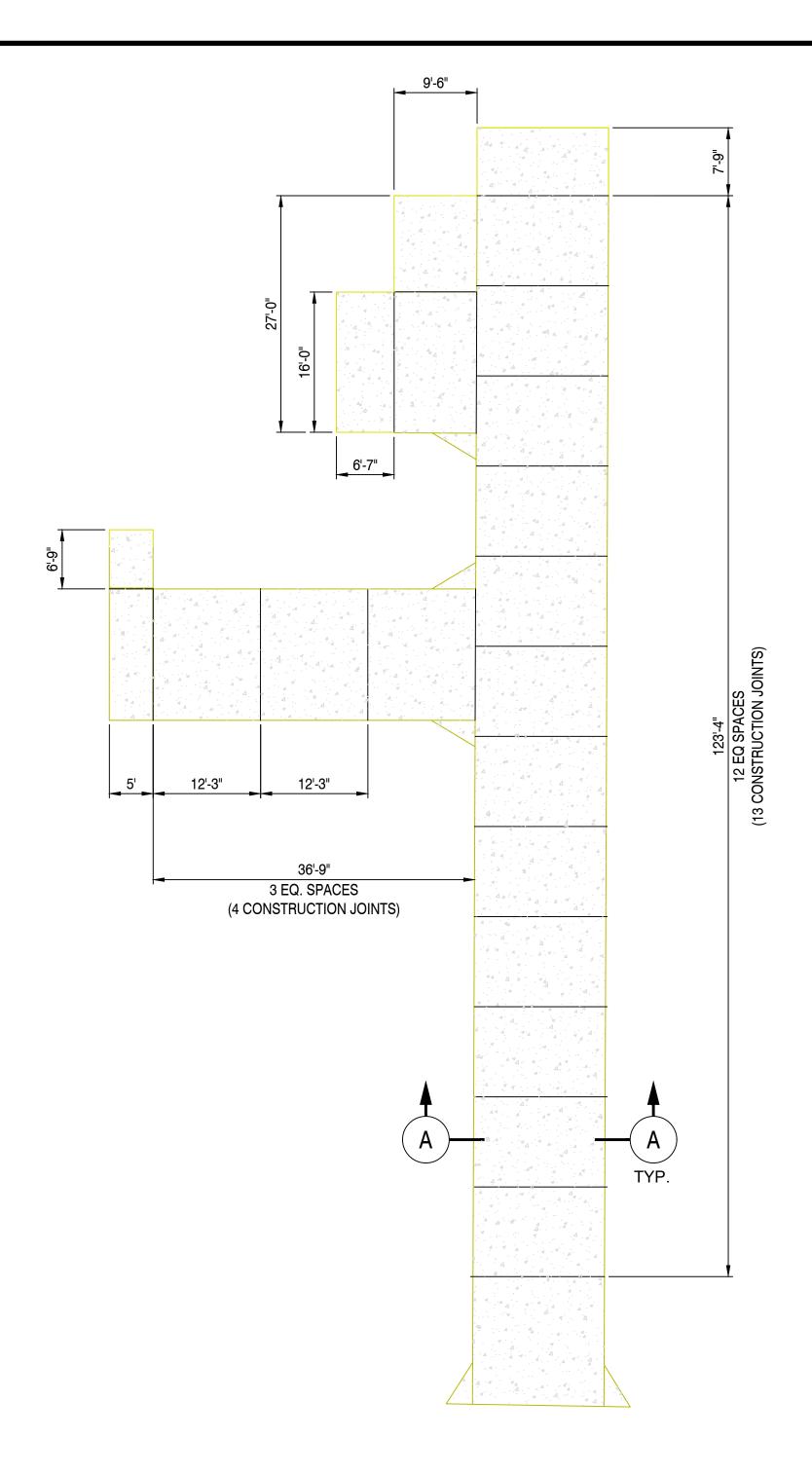
STRUCTURAL BILL OF MATERIALS

DRAWING NO:

D-03







BUILDING AND/OR
FOUNDATIONS. REF.
CIVIL DRAWINGS FOR
ADD'L INFORMATION

GRADE

GRADE

15'-0" MAX.

6x6 - W16 x W16 WWF
REINFORCEMENT

12" MIN. ODOT GRANULAR STRUCTURAL
FILL BED INSTALLED AND COMPACTED
TO 100% STANDARD PROCTOR MAXIMUM
DRY DENSITY.

DRIVEWAY SHOULD -

SLOPE AWAY FROM NEW

TYP. DRIVEWAY SLAB SECTION
SCALE: 1-1/2" = 1'-0"
SEE NOTE 1







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ı	AS-BUILT BY			
ı	CHECKED BY	A. TOMBO	09/13/24	772-801-9684
	DESIGNED BY	H. ROQUE	09/13/24	470-322-4636
ı	INTERNAL ENG.	H. ROQUE	09/13/24	470-322-4636

SITE NAME:

# INST# 24-0136951-00 ABAN# XX-XXXXXXXXX-XX PROJECT ID# 21-78791

NEW BRANDON ROAD, RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:

DRIVEWAY AND SIDEWALK ENLARGED DETAILED PLAN

DRAWING NO:

D-05

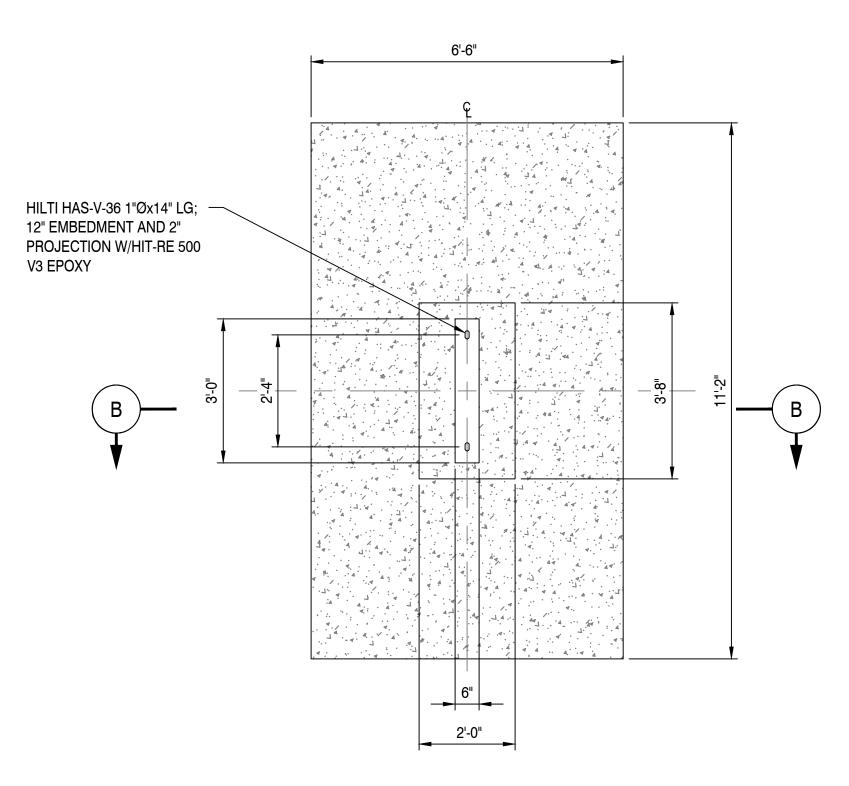
DRIVEWAY AND SIDEWALK ENLARGED DETAIL

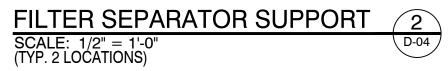
SCALE: 3/32" = 1'-0"

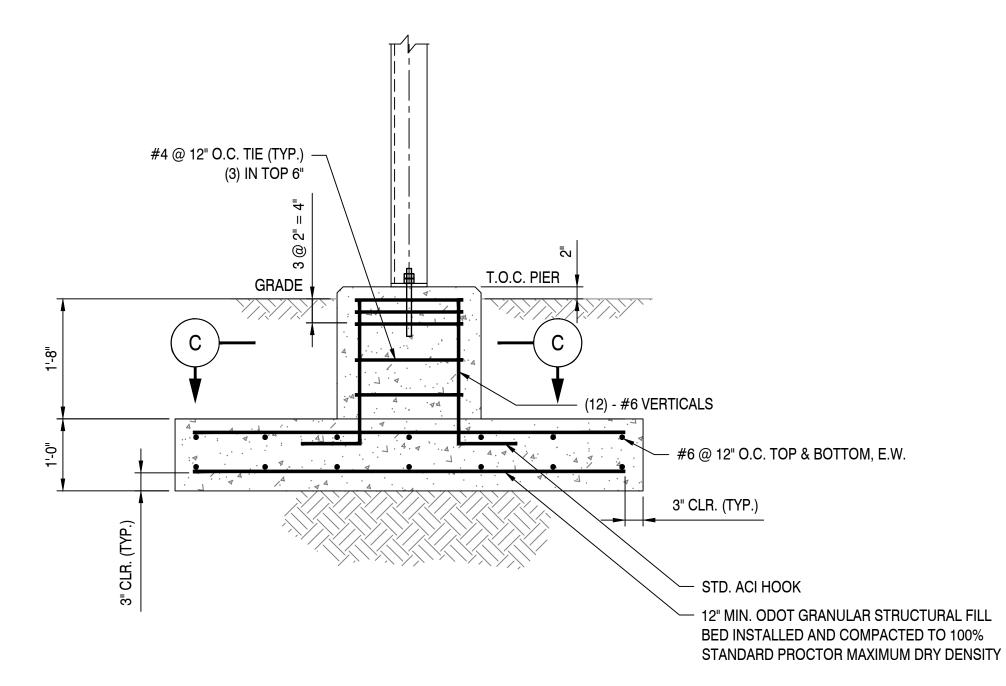
D-04

NOTE:

 CONCRETE SHOULD FOLLOW SLOPE AND GRADES AS SET FORTH PER CIVIL DRAWINGS. OTHERWISE, IT SHOULD FOLLOW NATURAL GRADE AND/OR SLOPE AWAY FROM STRUCTURE.

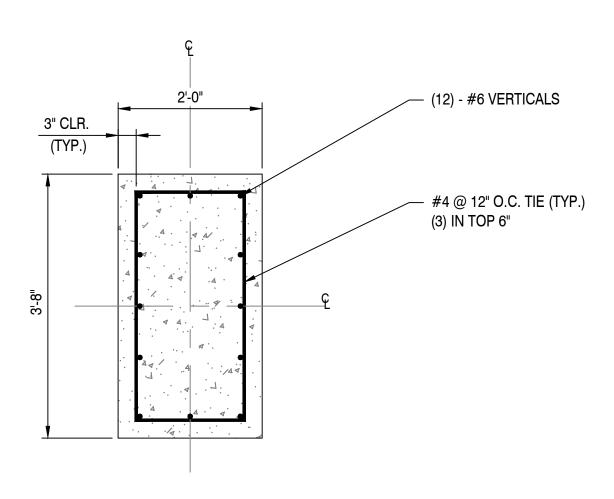






FILTER SEPARATOR SUPPORT SECTION
SCALE: 3/4" = 1'-0"

B



FILTER SEPARATOR PEDESTAL SECTION

SCALE: 3/4" = 1'-0"







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# **PROPOSED**

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AS-BUILT BY			
CHECKED BY	A. TOMBO	09/13/24	772-801-9684
DESIGNED BY	H. ROQUE	09/13/24	470-322-4636
INTERNAL ENG.	H.ROQUE	09/13/24	470-322-4636

SITE NAME:

# INST# 24-0136951-00 ABAN# XX-XXXXXXXXX-XX PROJECT ID# 21-78791

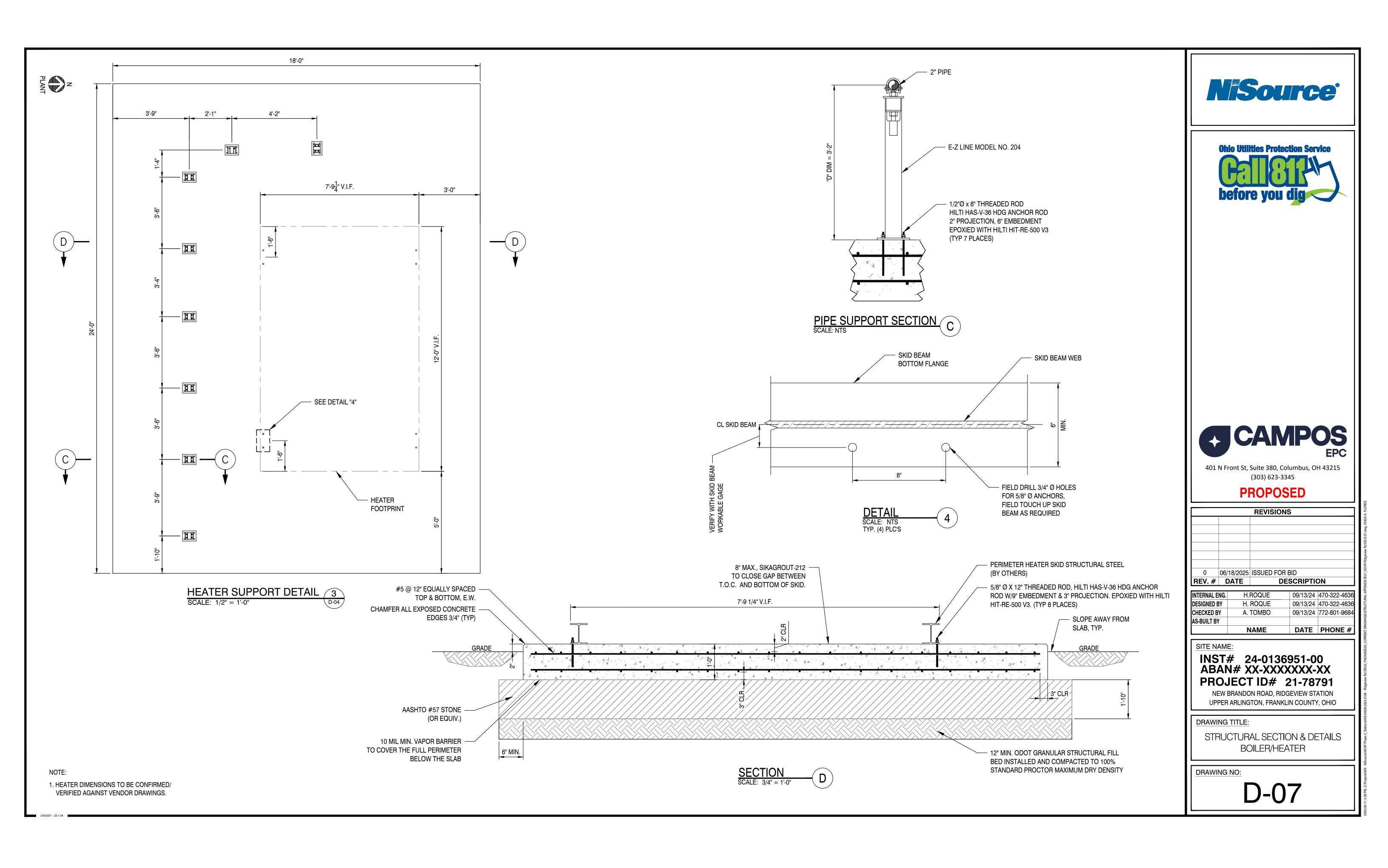
NEW BRANDON ROAD, RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

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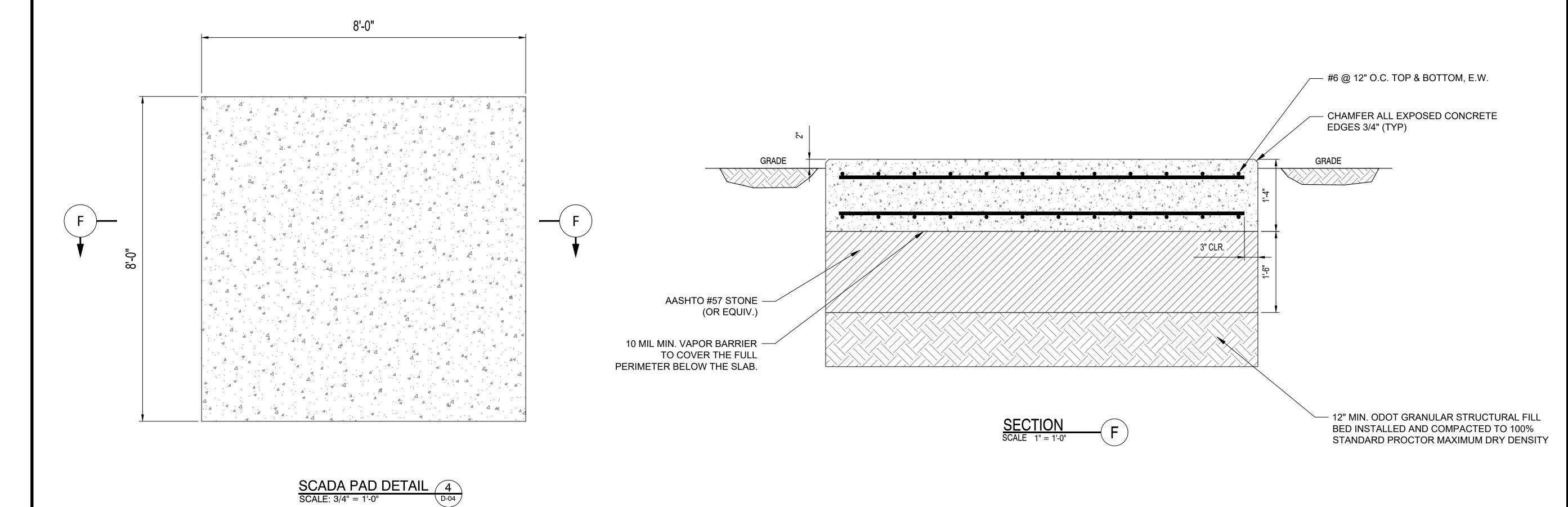
STRUCTURAL SECTION AND DETAILS -FILTER SEPARATOR SUPPORT

DRAWING NO:

D-06













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REV.#	DATE	DESCRIPTION			

SITE NAME:

INST# 24-0136951-00 ABAN# XX-XXXXXXXXXXXPROJECT ID# 21-78791

NEW BRANDON ROAD, RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:

STRUCTURAL SECTIONS AND DETAILS
SCADA BUILDING PAD

DRAWING NO:

D-08

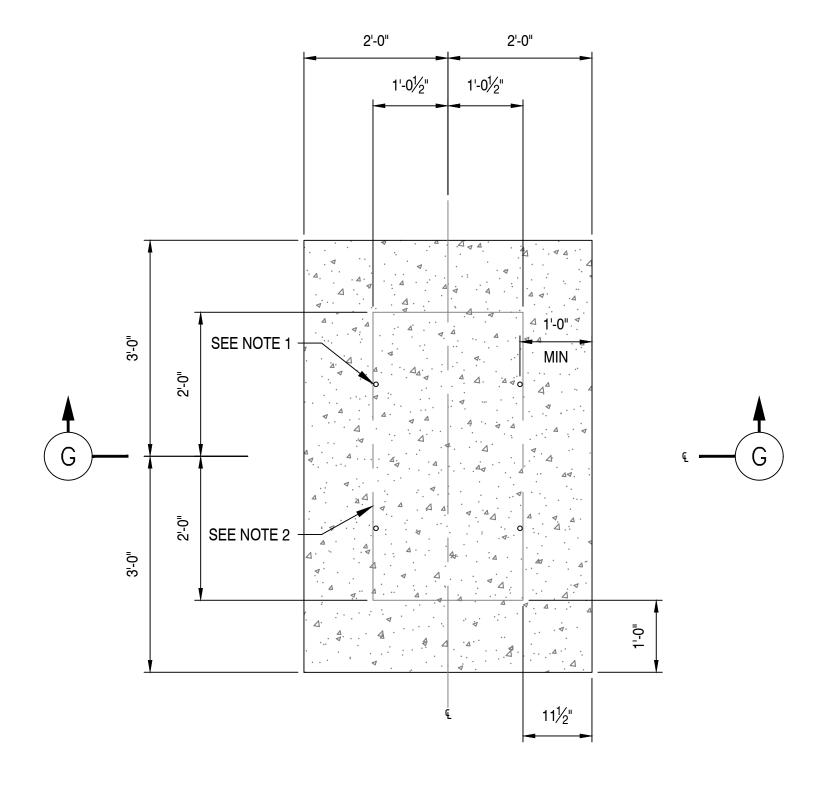
NOTES:

1. BUILDING NOT SHOWN FOR CLARITY

2. BUILDING DIMENSIONS (8'-0" x 8'-0") TO BE FIELD VERIFIED/CONFIRMED.

3. BUILDING ANCHOR TO BE SETFORTH BY OTHERS (BUILDING DESIGNER/CONTRACTOR)





GENERATOR SKID
NOT SHOWN FOR CLARITY

GRADE

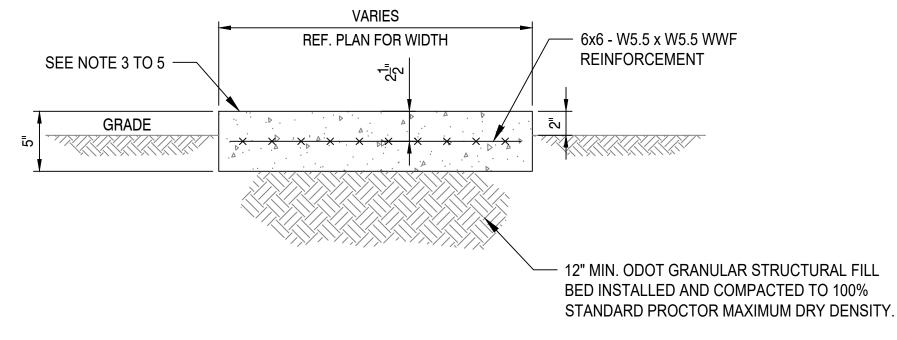
10 MIL MIN. VAPOR BARRIER
TO COVER THE FULL PERIMETER
BELOW THE SLAB.

AASHTO #57 STONE
(OR EQUIV.)

12" MIN. ODOT GRANULAR STRUCTURAL FILL
BED INSTALLED AND COMPACTED TO 100%
STANDARD PROCTOR MAXIMUM DRY DENSITY

SECTION
SCALE: 3/4" = 1'-0"

GENERATOR PAD DETAIL 5
SCALE: 3/4" = 1'-0"



TYP. SIDEWALK AND LANDING PAD SECTION (H) SCALE: 1-1/2" = 1'-0"

# NOTES:

- ANCHOR INSTALLATION PER MANUFACTURER RECOMMENDATION, CONTACT EOR, SHALL CONNECTION NEED ADDITIONAL DESIGN.
- 2. GENERAC GENERATOR, CENTERED IN SLAB, REF. MECHANICAL DRAWINGS OR CONTRACT DOCUMENTS FOR ADDITIONAL MODEL INFO.
- 3. SIDEWALK SHOULD SLOPE AWAY FROM NEW BUILDING AND/OR FOUNDATIONS.
- 4. MAX. LENGTH TO BE AS NECESSARY PER FIELD CONDITIONS. MAX. DISTANCE BETWEEN CONSTRUCTION/CONTROL JOINT SHOULD NOT EXCEED 12 FT.
- 5. USE 1/2" EXPANSION JOINT WHEN POURING ADJACENT TO NEW BUILDING (BY OTHERS).







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**PROPOSED** 

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CHECKED BY	A. TOMBO	09/13/24	772-801-9684
DESIGNED BY	H. ROQUE	09/13/24	470-322-4636
INTERNAL ENG.	H. ROQUE	09/13/24	470-322-4636

SITE NAME:

# INST# 24-0136951-00 ABAN# XX-XXXXXXXX-XX PROJECT ID# 21-78791

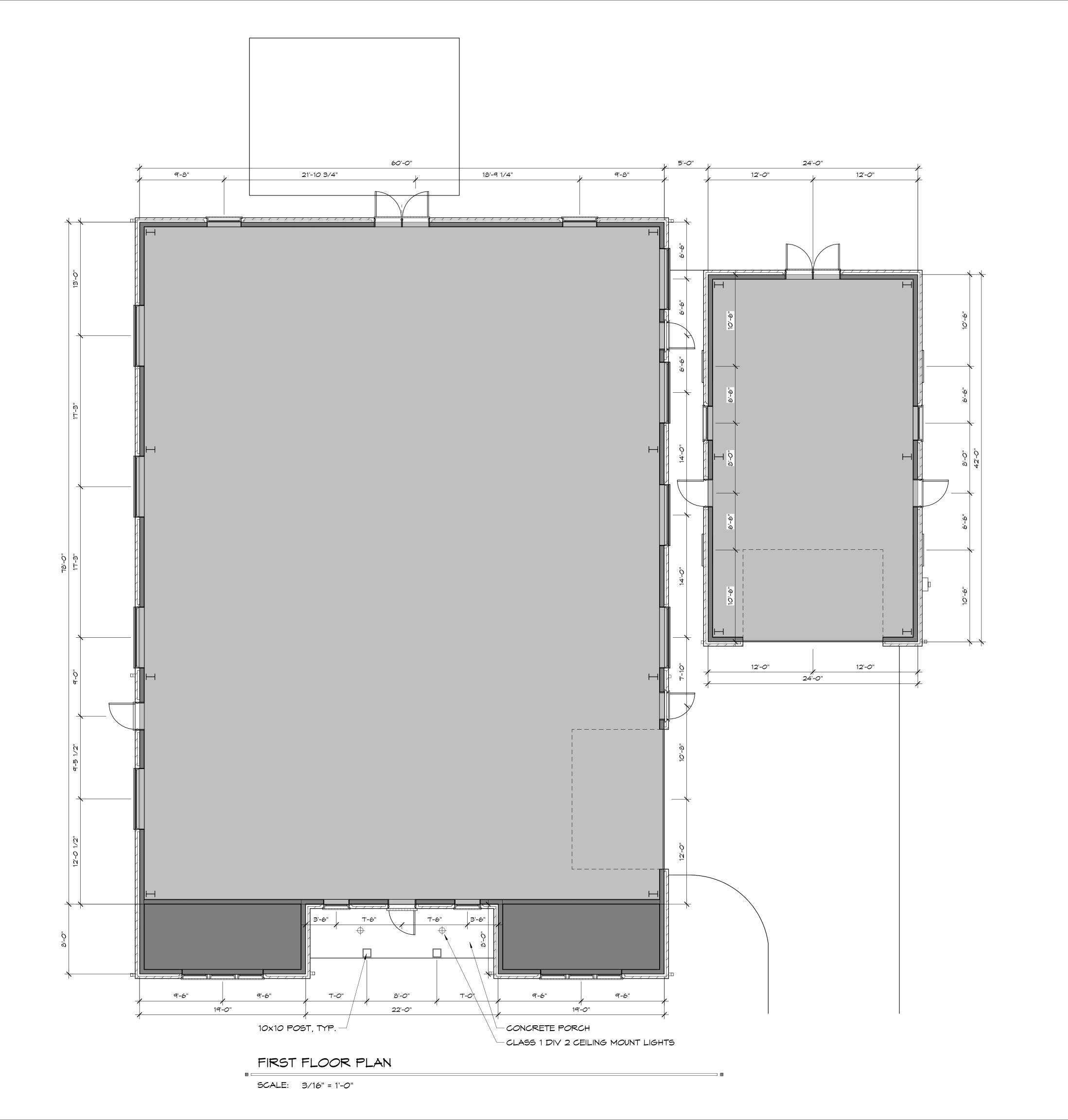
NEW BRANDON ROAD, RIDGEVIEW STATION UPPER ARLINGTON, FRANKLIN COUNTY, OHIO

DRAWING TITLE:

STRUCTURAL SECTIONS AND DETAILS
GENERATOR PAD

DRAWING NO:

D-09





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4740 REED ROAD, SUITE 201 UPPER ARLINGTON, OHIO 43220 INFO@NEW-AVENUE.NET

614 . 884 . 8888

DESIGN SET : 06/11/2025

Columbia Gas/ NiSource Utility Building Architectural Design Consulting

> 1336 Ridgeview Road Upper Arlington, Ohio

NOT FOR CONSTRUCTION

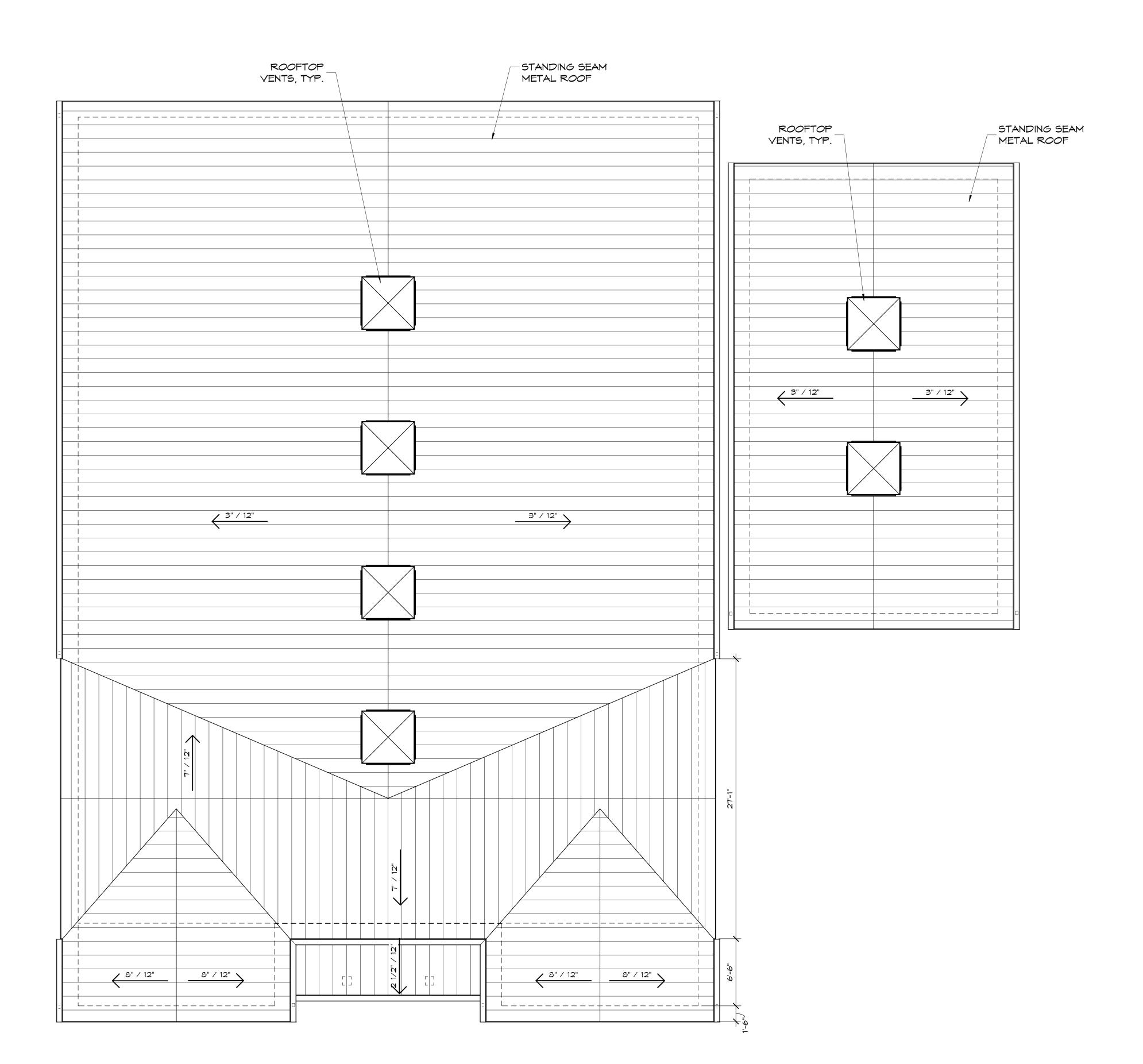
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Project No:

25-0014

FIRST FLOOR PLAN

A1.1



ROOF PLAN

SCALE: 3/16" = 1'-0"



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25-0014

ROOF PLAN

A1.2





FRONT ELEVATION

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



A5.1

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New Avenue

architects · engineers

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Project No:

EXTERIOR

25-0014







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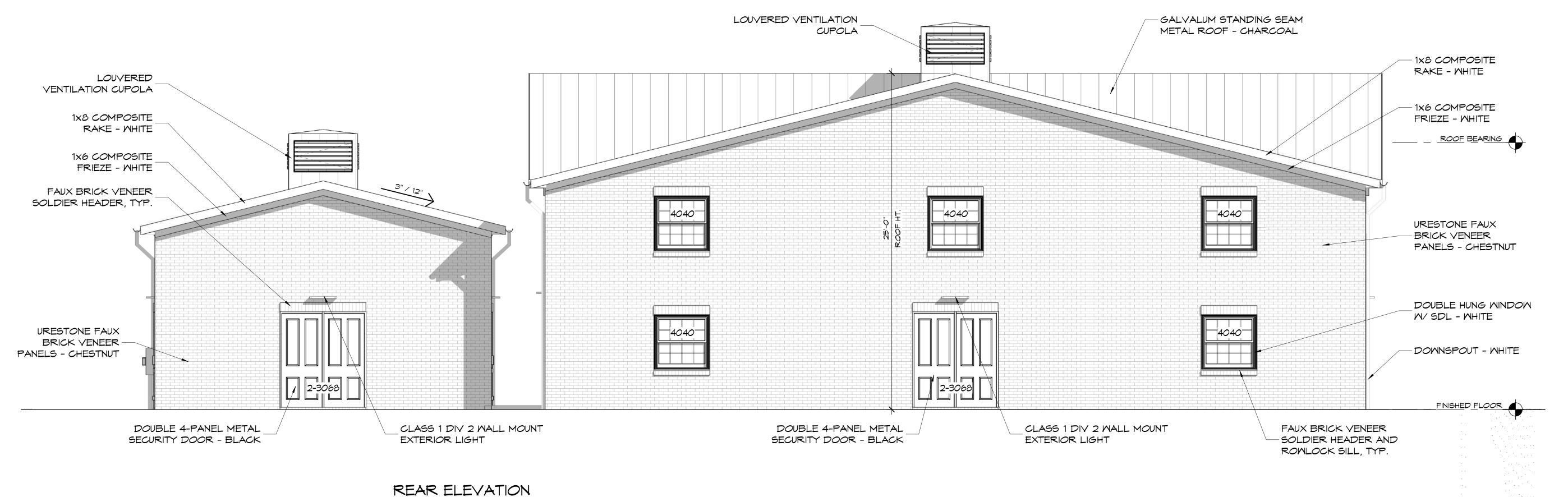
Project No:

EXTERIOR

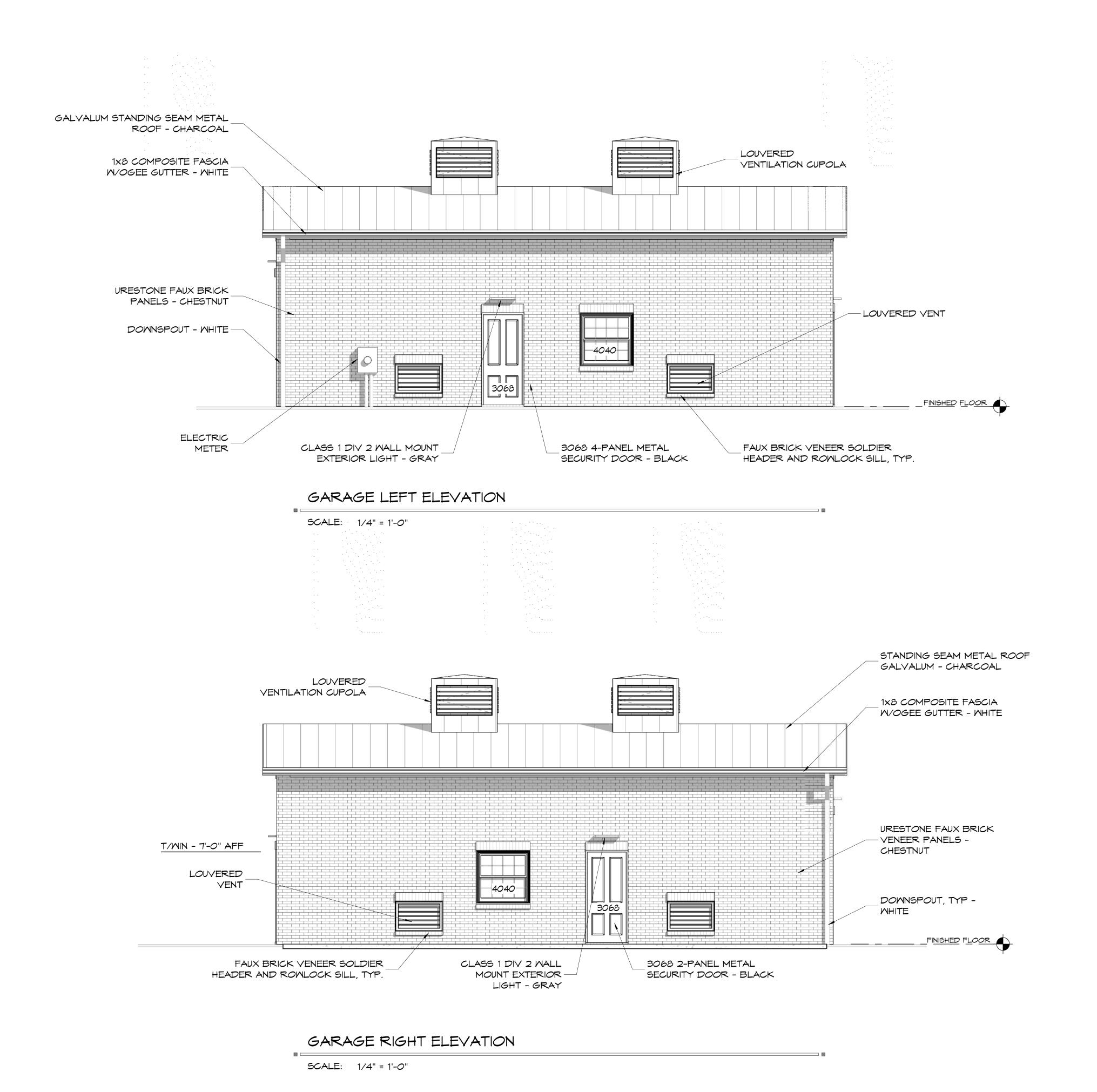
25-0014

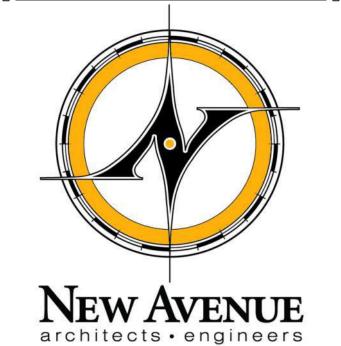
ELEVATIONS

A5.2



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





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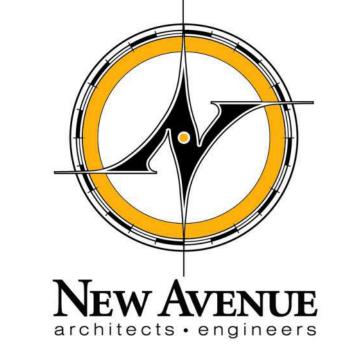
25-0014

GARAGE ELEVATIONS

A5.3







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Project No:

25-0014

3D VIEWS

A15.1





RIDGEVIEW STATION
PERSPECTIVE
RENDERING

Project No:

25-0014

Date:

2025-06-11

R1





RIDGEVIEW STATION
PERSPECTIVE
RENDERING

Project No:

25-0014

Date: 2025-06-11

R2

#### GENERAL NOTES

1.1 Fabrication shall be in accordance with R.G.B. standard practices in compliance with the applicable sections, relating to design requirements and allowable stresses of the latest edition of the "AWS Structural Welding Code D1.1 and D1.3". R.G.B. manufacturing procedures are certified by:

Certification numbers Reference

R.G.B. Houston #456

1.2 MATERIALS ASTM DESIGNATION MIN. YIELD STRENGTH Hot Rolled Steel Shapes (W, S, C & L)
Hot Rolled Steel Shapes (W)
Round Structural Tubing (HSS)
Square/Rect. Structural Tubing (HSS) Fy = 50 KSI Fy = 50 KSI Fy = 42 KSI A572/A529 A500 Fy = 46 KSI Fy = 55 KSI Fy = 55 KSI A500 Structural Steel Web Plate Structural Steel Flange Plates/Bars A572/A1011 A529/A572 Cold Formed Light Gage A653/A1011 Fv = 55 KSIRoof and Wall Sheets A792/A653 Fv = 50, 80 KSL

MIN. TENSILE STRENGTH

Machine Bolts & Nuts High Strength Bolts (1"ø and less) High Strength Bolts (>1"ø to 1 1/2"ø) A307 Fu = 60 KSI F3125/Gr. A325-TYPE 1 Fu = 120 KSI F3125/Gr. A325-TYPE 1 Fu = 105 KSI A36/A307/F1554 Gr.36 Fu = 58-80 KSI

Anchor Bolts (if supplied) 1.3 PRIMER

Shop primer paint is a rust inhibitive primer which meets the end Shop primer point is a rust inhibitive primer which meets the end performance of Federal Specification SSPC No. 15 and is R.G.B. Red or Gray Oxide color. This point is not intended for long term exposure to the elements. R.G.B. is not responsible for any deterioration of the shop primer point as a result of improper handling and/or jobsite storage. R.G.B. shall not be responsible for any field applied paint and/or coatings. (Section 6.5 AISC Code of Standard Practice, 16th Edition). Nominal thickness of primer will be 1 mil unless otherwise specified in contract documents. ecified in contract documents.

1.4 GALVANIZED OR SPECIAL COATINGS:

1.5 ALL BOLTS ARE 1/2" x 0'-1" A307 (snug-tightened) EXCEPT:

a) Eave strut connection  $-1/2^*$  ø x 0'-1 1/4" A307 without washer (unless noted otherwise) b) Endwall rafter splice  $-5/8^*$  ø x 0'-1 3/4" F3125/Gr. A325-N with washer c) Endwall column to rafter connection  $-1/2^*$  ø x 0'-1 1/4" F3125/Gr. A325-N without washer d) Main frame moment splice connections - F3125/Gr. A325-N with washer,

SEE CROSS SECTION for dimensions. NOTE: One (01) washer is supplied on main frame moment splice and to A325 bolts unless noted otherwise on drawing

1.6 F3125/Gr. A325 BOLT TIGHTENING REQUIREMENTS

All high strength bolts are F3125/Gr. A325-b unless specifically noted otherwise. Structural bolts shall be tightened by the turn-of-the-nut or calibrated wrench methods in accordance with the 16th Edition AISC/RCSC. "Specification For Structural Joints using ASTM F3125/Gr. A325 or A490 Bolts." Washers are supplied separately from High Strength Bolts, hower assembly with washers are required before erection. Installaltion inspection is recommended and be based on Section 9.1 and 9.2 of AISC/RCSC.

Snug—tight is permitted EXCEPT for the following conditions:
a) Building located in high seismic areas; Seismic Design Categories D, E, F
b) Building supporting cranes

Building supporting craries

Building supporting machinery that creates vibration, impact or stress reversal Connections using ASTM A490

connections using ASIM A490
 connections using slip-critical condition
 f) or as prohibited in the contracts/specifications

1.7 CLOSURE STRIPS ARE FURNISHED FOR APPLICATION:

INSIDE— Under roof panels at eave OUTSIDE — Between endwall panels and rake trim — Under continuous ridge vent skirts

1.8 ERECTION NOTE:

All bracing, strapping, & bridging shown and provided by R.G.B. for this building is required and shall be installed by the erector as a permanent part of the structure. If additional bracing is required for stability during erection, it shall be the erector's responsibility to determine the amount of such bracing and to procure and install as needed.

1.9 FRECTION AND UNLOADING NOT BY R.G.B.

1.10 SHORTAGES

Any claims or shortages by buyer must be made to R.G.B. within five (5) working days after delivery, or such claims will be considered to have been waived by the customer and disallowed.

1.11 CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10) CORRECTIONS OF ERRORS AND REPAIRS (MBMA 5.10)
Claims for correction of alleged missifts will be disallowed unless R.G.B. shall have received prior notice thereof and allowed reasonable inspection of such misfits. The correction of minor misfits by the use of drift pins to draw the components into line, moderate amounts of reaming, chipping and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim. No part of the Building may be returned for alleged misfits without the prior approval of R.G.B.

#### BUYER/END USE CUSTOMER RESPONSIBILITIES

- It is the responsibility of the BUYER/END USE CUSTOMER to obtain appropriate approvals and secure necessary permits from City, County, State, or Federal Agencies as required, and to advise/release R.G.B. to fabricate
- 2.2 Rigid Global Buildings (hereafter referred to as R.G.B.) Rigid Global Bulldings (hereafter referred to as R.G.B.) standard specifications apply unless stipulated otherwise in the Contract Documents. R.G.B. design, fabrication, quality criteria, standards, practice, methods and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both Parties that the BUYER/END USE CUSTOMER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications.
- In case of discrepancies between R.G.B. structural steel plans and plans for other trades, R.G.B. plans shall govern. (Section. 3 AISC Code of Standard Practices, 16th Edition)
- Approval of R.G.B. drawings and calculations indicates that R.G.B. has correctly interpreted and applied the Contract Documents. This approval constitutes the contractor/owners acceptance of the R.G.B. design concepts, assumptions, and loading. (Section 4 AISC Code 15th Edition and MBMA 3.3.3)
- Once the BUYER/END USE CUSTOMER has signed R.C.B. Approval Package and the project is released for fabrication, changes shall be billed to the BUYER/END USE CUSTOMER including material, engineering and other costs. An additional fee may be charged if the project must be moved from the fabrication and shipping schedule.



#### 100 SOUTHPOINTE SQUARE LANE → CANONSBURG, PA 15317 PH: 724.225.2202 INFO@STEELNATION.COM

20						
	SN # 1471					
RIDGEVIE	SN # 1471 RIDGEVIEW STATION HOUSE (NISOURCE CG UTILITY BUILDING					
SALES NO.	82361 JOB NO. 173424 BUILDING A (Utility Building)					
CUSTOMER	STEEL NATION BUILDINGS, INC.					
END USER COLUMBIA GAS (NISOURCE UTILITY BUILDING)						
END USE UTILITY BUILDING						
STREET 1336 RIDGEVIEW ROAD						
CITY ST ZIP UPPER ARLINGTON, OH 43221						
COUNTY FRANKLIN						

#### THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING AS INDICATED:

DESIGN LOADS:			BUILDING DESCRIPTION:		
Design Code		: IBC 21	Width (ft) : 60		
Dead Load (psf)		: Metal building structure only by RGB	Length (ft) : 78		
Collateral Load (psf)		: 5.00	Eave Ht. at BSW (ft) : 17.5		
Wind Load		. 0.00	Eave Ht. at FSW (ft) : 17.5		
Basic Design Wind Speed		: V (3 sec. gust) = 115 mph mph	Roof Slope at BSW : 3.0:12		
Allowable Stress Design Wind Spe	-eed	: Vasd (3 sec. gust) = 89.08 mph	Roof Slope at FSW : 3.0:12		
Risk Category	seu	: II - Normal	Bay Spacing FROM LEFT TO RGHT (ff): 1 at 25 1 at 27.5		
• •		: II - Normal : C	1 at 27.5 1 at 25.5		
Wind Exposure Internal Pressure Coefficient, GCF	D:	: C : 0.18 / -0.18	COVERING AND TRIMS:		
	-1				
Design Wind Pressure For Wall		: Based on Allowable Stress Design Wind Speed	Roof Panels & Trims		
Components Wind Pressure	(psf)	: 14.48	Panel Type : 24 Ga. Platinum (16" V	Nide) SSR	
Components Wind Suction	(psf)	: -16.00	Panel Color : S3000 Kynar		
Claddings Wind Pressure	(psf)	: 17.98	Trim Colors		
Claddings Wind Suction	(psf)	: -19.51	Eave Trim : Glvm.Plus		
Live Load		: 20.00	Eave Gutter : Sculptured Gutter		
Primary Framing (psf) Trib. Area Reduction		: 20.00 : No	Gable Trim : S3000 Standard		
Secondary Framing (psf)		: 20.00	Wall Panel & Trims		
Snow Load		. 20.00			
Ground Snow Load, Pg (psf)		: 20.0000	Panel Type : 26 Ga. RPBM		
Roof Snow Load, Pf (psf)		: 20.00	Panel Color : Glvm.Plus		
Sloped Roof Snow Load, Ps (psf)	,	: 20.00	Trim Colors		
Snow Exposure Factor, Ce		: 1.0000	Corner Trims : Glvm.Plus		
Snow Importance Factor, Is		: 1.0000	Opening Trims : S3000 Standard		
Thermal Factor, Ct		: 1.00	Downspouts : Box Downspout		
Sloped Factor, Cs		: 1.0000	Base Trim : None		
Seismic Load			Mas. Flash : N/A		
Seismic Importance Factor, le		: 1.00			
Seismic Occupancy Category		: II - Normal	Special Requirements: NONE		
Site Class		: d	CONT.		
Mapped Spectral Response Accel	leration	: Ss = 0.1195 : S1 = 0.0600			
Spectral Response Coefficients		: Sds = 0.1275 : Sd1 = 0.0960	: BLDGC (PORCH CANOPY) LOADS		
Seismic Design Category		: B	: TOP RUNNING CRANE LOAD - (1) 3T (CMAA Class C)		
Basic Force Resisting Systems Us	sed	: Steel System Not Specifically Detailed For Seismic Resistance	: DEFLECTION LIMIT:		
		: Rigid Frames	Rafter - L/240 (LL), L/180 (DL+LL)		
		: Braced Frames	Purlins - L/240 (LL), L/180 (DL+LL)	- 1	
Total Design Base Shear, V (kips)	)	: Longitudinal = 4.90 Transverse= 4.94	Girts - L/240	1	
Response Modification Factors, R	Į.	: Rigid Frames = 3.00	Endwall Column - L/240		
		: SW Wind Bent = 3.00	Lateral Drift - H/200	1 1	
Seismic Response Coefficient, Cs	غ	: Rigid Frames = 0.043	Crane Beam:	\ _	
A sharin Dan and ann Hand		: SW Wind Bent = 0.043	Vertical - L/600		
Analysis Procedure Used		: Equivalent Lateral Force Procedure	Lateral - L/400 : EAVE AND GABLE EXTENTION-2'-0"		
Rainfall Intensity		: 6.06 (in/hr)			
DESIGN and DETAIL REQUIREM	1ENTS	: UNBALANCED SNOW LOAD : SNOW DRIFT LOAD AT BLDGC	: (4) CUPOLA (BY OTHERS) - 350 LB EA		
		: SLIDING SNOW LOAD AT BLDGC	: ROOF IS 24 Ga PLATINUM-16 WITH QUAD-LOK		
		PLING BURY CARLE/HIDDED RUMD OUT LOAD			

: BLDG-B&B1 (GABLE/HIPPED BUMP-OUT) LOADS

The BUYER/END USE CUSTOMER is responsible for overall project coordination. All The BUYER/END USE CUSTOMER is responsible for overall project coordination. All interface, compatibility, and design considerations concerning any materials not furnished by R.C.B. and R.G.B. steel system are to be considered and coordinated by the BUYER/END USE CUSTOMER. Specific design criteria concerning this interface between materials must be furnished before release for fabrication or R.G.B. assumptions will govern (Section 4 and Commentary, AISC Code of Standard Practice, 16th Edition)

It is the responsibility of the BUYER/END USE CUSTOMER to ensure that R.G.B. It is the responsibility of the BUYEN/END USE CUSTOMER to ensure that plans comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that R.G.B. or its design engineers are acting as the engineer of record or design professional for a construction project. These drawings are sealed only to certify the design of the structural components furnished by R.G.B.

The BUYER/END USE CUSTOMER is responsible for setting of anchor bolts and erection of steel in accordance with R.G.B. "For Construction" drawings only. Temporary supports such as guys, braces, falsework, cribbing or other elements required for the erection operation shall be determined furnished and installed by the erector. No items should be purchased from a preliminary set of drawings, including anchor bolts. Use only final "FOR CONSTRUCTION DRAWINGS" for this use. (Section 7 AISC Code of Standard Practice, 16th Edition.) Standard Practice, 16th Edition.)

Rigid Global Buildings is responsible for the design of the anchor bolt to

Rigid Global Buildings is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing and tension, but is not responsible for the transfer of anchor bolt forces to the concrete, anchor bolt embedment or the adequacy of the anchor bolt in relation to the concrete.

Unless otherwise provided in the Order Documents, R.G.B. does not design and is not responsible for the design, material and construction of the foundation or foundation embedments. The END USE CUSTOMER should assure himself that adequate provisions are made in the foundation design for loads imposed by column reactions of the building, other imposed loads, and bearing capacity of the soil and other conditions of the building site. t is recommended that the anchorage/anchor bolt embedment and foundation of the building t

designed by a Registered Professional Engineer experienced in the design of such structures. (Chapter IV Section 3.2.2 Metal Building Systems Manual 2021 Edition)

Normal erection operations include the corrections of minor misfits by moderate amounts of reaming, chipping, welding or cutting, and the drawing of elements into line through the use of drift pins. Errors which cannot be corrected by the foregoing means or which require major changes in member configuration are to be reported immediately to R.G.B. by the BUYER/END USE CUSTOMER, to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others. (Section 7 AISC Code of Standard Practice, 16th Edition)

Neither the fabricator nor the BUYER/END USE CUSTOMER will cut, drill or otherwise after his work, or the work of other trades, to accommodate other trades, unless such work is clearly specified in the contract documents. Whenever such work is specified, the BUYER/END USE CUSTOMER is responsible for furnishing complete information as to materials, size, location and number of alterations prior to preparation of shop drawings. (Section 7 AISC Code of Standard Practice, 16th Edition)

<u>WARNING</u> In no case should Galvalume steel panels be used in conjunction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume alloy coating when they are in contact with Galvalume steel panels. Even run-off from copper flashing, wiring, or tubing onto Galvalume should be avoided.

SAFETY COMMITMENT Rigid Global Buildings has a commitment to manufacture quality building components that can be safely erected 2.13 However, the safety commitment and job site practices of the erector are beyond the control of R.G.B.

are beyond the control of R.C.B.
It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Local, State, and Federal safety and health standards should always be followed to help insure workers safety. Make certain all employees know the safest and most productive way of erecting a building. Emergency procedures

should be known to all employees.

Daily meetings highlighting safety procedures are also recommended. The use of hard hats, rubber sole shoes for roof work, proper equipment for handling material, and safety nets where applicable, are recommended.

Roof drainage systems (gutter, downspouts, etc.) must be free of any obstruction to ensure smooth operation at any given time.

It is recommended by Factory Mutual (Reference: B2.44) that roofs be cleared of snow when half of the maximum snow depth is reached. The maximum snow depth can be estimated based on the design snow load and the density of snow and/or ice buildup. See Chart below.

ROOF SNOW LOAD (IN PSF)	EQUIVALENT SNOW HEIGHT AT ROOF (IN INCHES)	RECOMMENDED SNOW HEIGHT WHEN SNOW REMOVAL SHOULD START (IN INCHES)
20	16.60	8.30
30	17.90	8.95
40	19.20	9.60
50	20.50	10.25
60	21.80	10.90
70	23.10	11.55
80	24.40	12.20
NOTE:		^

NOTE:
For Snow/Ice Removal Procedure, Refer to Metal Building System Manus 2021 Edition

<sup>№</sup>.82361

Before erecting your building, please see the Rigid Erection & Safety Manual at rigidbuilding.com/document-library 5/29/2025

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT RIGID GLOBAL ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT, ONLY THE PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY RIGID IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN RIGID ARE SPECIFICALLY EXCLIDED. NO INSPECTION OR SUPERVISION IS

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STEEL NATION BUILDINGS, INC.

GOSTER

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A (Utility Building)

FOR ACCOLO OF 4 SOME

A (Utility Building) 173424

# **LEGENDS & ABBREVIATIONS**

					LEGENDS
DESIGN:				DRAWINGS:	
Accel.	Α	cceleration		AB, A.B.	Anchor Bolt
Coeff.	C	Coefficient		AS, As Shown	As Shown
CL, Collat	C	Collateral Load		Aux.	Auxiliary
DL, Dead		ead Load		BLDG., Bldg.	Building
H, Horz, Horiz	H	lorizontal		B.P., Base PL	Base Plate
L	L	eft		BOTT., Bott.	Bottom
LL, Live		ive Load		Bott. Base PL, B.O.B.P	Bottom Of Base Plate
LnWnd, LnWind		ongitudinal Wind Load		B.O.S.	Bottom Of Steel
Min, min		/linimum		BSW	Back Sidewall
Max, max		Maximum		BY OTHERS	By Other Supplier or Not By Rigid
R		Right		C/C	Center to Center
SL		Snow Load		C.I.P.	Cast-In-Place
Slide SEIS, Seis		Sliding Snow Load		CL, Q CLR.	Center Line
U Snow		Seismic Load Inbalance Snow Load		CMU	Clear, Clearance Concrete Masonry Unit
V, Vert		rertical		COL., Col.	Column
WL, Wind L		Vind Load Left		CONC., Conc.	Concrete
WR, Wind_L		Vind Load Left Vind Load Right		CONT.	Continuous, Continuation
WP, Wind P		Vind Pressure		DET.	Detail
WS, Wind_S		Vind Suction		DIA., Dia., Ø	Diameter
, ••ma_0	V			DIM., Dim.	Dimension
ENGLISH UNIT	ΓS			DWG., Dwg.	Drawing
Acre		Acres		EH, E.H.	Eave Height
FT, ft		eet		EJ, Exp. Jt.	Expansion Joint
GA, Ga, ga		Sage		EL, Elev.	Elevation
Gal		Sallons		EP	End Plate
IN, in		nches		ES, E.S.	Eave Strut
K, k		lips		EW	Endwall
KSI, ksi		(ips Per Square-Inches		EW COL, EC	Endwall Column
lb, #		Pounds		EW RAF	Endwall Rafter
MPH, mph	N	files Per Hour		Exp. Bolt	Expansion Bolt
PLF, plf, lb/ft	F	ounds Per Linear-Foot		FFL, Fin. Flr.	Finish Floor Line
PSF, psf, lb/ft <sup>2</sup>	F	ounds Per Square-Feet		FLG., FLGE., Flg., Flge.	Flange
TON, ton	Т	ons		FNB, F.N.B.	Fin Neck Bolt
Yd	Y	'ard		FO, F.O.	Framed Opening
METRICLINIT	2			FRM., Frm.	Frame
METRIC UNITS	<u>S</u>			FSW	Front Sidewall
cm	C	Centimeters		GA, Ga.	Gage
Hec	F	lectares		GALV., Galv.	Galvanized
liter	L	iters		G.O.L.	Gage of Outstanding Leg
m	N	/leters		H, Ht.	Height
mm	N	Millimeters		HED,HEDS	High Eave Double Slope
N		lewtons		HES,HESS	High Eave Single Slope
km		(ilometers		Horz, Horiz	Horizontal
kN		(ilonewtons		HSB, H.S.B.	High Strength Bolt
kN/m²		(ilonewtons Per Square-	meter	HSS	Hollow Structural Section
kPa		(ilopascals		INT., Int.	Interior, Intermediate
kph		(ilometers Per Hour		I/S	Inside
Pa	F	Pascals		LED,LEDS	Low Eave Double Slope
USEFUL CON	/FRSION			LES,LESS	Low Eave Single Slope
		Matria Ta	Matria	LEW	Left Endwall
English To	English	Metric To	Metric	LHI	Left Hand In
1 mile 1 Yd	1760 Yd 3 Ft	1 km	1000 m 100 cm	LHO LL	Left Hand Out Long Life
1 Ft	3 Ft 12 in	1 m 1 cm	100 cm 10 mm	LLH	Long Life Long Leg Horizontal
1 in	12 III 16/16 in	1 kN	10 mm	LLV	Long Leg Honzontal  Long Leg Vertical
1 Ton (English)	2 Kips	1 kg	9.8066 N	LT	Lean-To
1 Kip	1000 lb	1 Ton (Metric)	1000 kg	LT COL	Lean-To Column
1 lb	16 ounces	1 Hec	10,000 kg	LT RAF	Lean-To Rafter
1 Acre	43560 Ft <sup>2</sup>	1 m <sup>3</sup>	1000 liter	LG., Lg.	Long
1 Ft <sup>3</sup>	7.4805 Gal	1 kPa	1 kN/m <sup>2</sup>	L, Lt.	Length
	7.4003 Gai	i Ni d	I KIN/III	L x W x H	Length x Width x Height
English To	Metric	Metric To	English	MAX., max.	Maximum
1 in	2.54 cm	1 cm	0.3937 in	MIN., min.	Minimum
1 ft	0.3048 m	1 m	3.2808 ft	MKD., MK'D.	Marked
1 lb	0.4536 kg	1 kg	2.2046 lb	MB, M.B.	Machine Bolt
1 Ton (English)	907.18 kg	1 Ton (Metric)	2204.6 lb	MEZZ., Mezz.	Mezzanine
1 Kip	4.4482 kN	1 kN	0.2248 kip	N.A., N/A	Not Applicable
1 mile	1.6093 km	1 km	0.6213 mile	NO., No.	Number
1 Acre	0.4046 Hec	1 Hec	2.4715 Acres	NS/FS, NS&FS	Near Side and Far Side
1 lb/ft <sup>2</sup>	0.0478 kPa	1 kPa	20.8854 lb/ft <sup>2</sup>	O.C.	On Center
	5.5 .7 5 Ki G	4	20.000 / 10/10	0/S	Outside
Fraction To	Decimal	Fraction To	Decimal	OH, Opp Hand	Opposite Hand (Mirror Image)
1/16	0.0625	9/16	0.5625	OHD, O.H.D.	Over-Head Door
1/8	0.1250	5/8	0.6250	0/0	Out to Out
3/16	0.1875	11/16	0.6875	PF COL	Portal Frame Column (Wind Bent Column)
1/4	0.2500	3/4	0.7500	PF RAF	Portal Frame Rafter (Wind Bent Rafter)
5/16	0.3125	13/16	0.8125	PL, P	Plate
3/8	0.3750	7/8	0.8750	OTY Oty	Quantity

3/8

1/2

7/16

0.3750

0.4375

0.5000

7/8

15/16

16/16

0.8750

0.9375

1 0000

QTY., Qty.

REF., Ref.

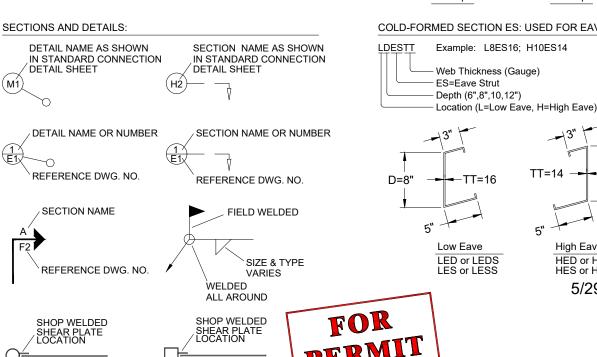
RFW

Quantity

Refer, Reference

Right Endwall

#### DRAWINGS: RHB Round Head Bolt RHI Right Hand In RHO Right Hand Out REINF. Reinforced REQ'D., REQD., Required REV., Rev. Revised, Revision RF, R.F. Rigid Frame RF COL Rigid Frame Column RF RAF Rigid Frame Rafter RUD, R.U.D. Roll-Up Door SC Slip Critical Self-Drilling Screws SDS SECT., Sect. Section SHTG., Shtg. Sheeting Sol Col Soldier Column SP Splice Plate SSR Standing Seam Roof SST Stainless Steel ST COL Straight Column STIFF. Stiffener STD. Standard STS Self-Tapping Screws SW Sidewall SYM., Sym., SYMM., Symm. Symmetry, Symmetrical TBE To Be Established TBD To Be Determined TC Tension Control THK., Thk. Thick TOC, T.O.C. Top Of Concrete TOS. T.O.S. Top Of Steel T & B, TOP & BOTT Top and Bottom TYP., Typ., typ. Typical UN, U.N.O. Unless Noted, Unless Noted Otherwise Vert. Vertical WD Walk Door W, Wd. Width W.P. Work Point, Working Point



BEAM OR JOIST

ISSUE DESCRIPTION

A APPROVAL/PERMIT

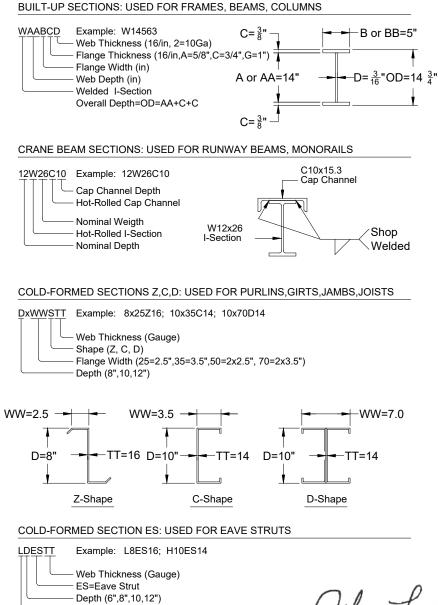
PLACEMENT

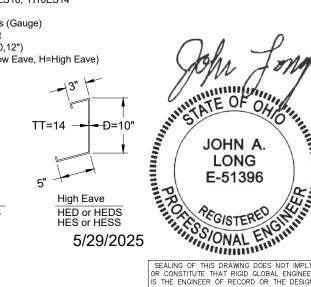
TUBE COLUMN

BEAM OR JOIST

PLACEMENT

PIPE COLUMN





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		100 SOUTHPOINTE SQUARE LANE CANONSBURG, PA 15317 PH: 724.225.2202 PHPO@STEELNATION.COM	STR
		, · ·	CITY

DATE DRN. CHK. DES.

05/00/25 LNT

IMPLIED.						
DESCRIPTION	LEGENDS & ABBR	LEGENDS & ABBREVIATIONS				
CUSTOMER	STEEL NATION BU	STEEL NATION BUILDINGS, INC.				
END USER	COLUMBIA GAS (N	COLUMBIA GAS (NISOURCE UTILITY BUILDING)				
END USE	UTILITY BUILDING BUILDING A (Utility Building)					
STREET	1336 RIDGEVIEW ROAD					
CITY ST ZIP	UPPER ARLINGTON, OH 43221					
82361	CO2 OF 4 SSUE N.T.S. DWG. NO.: CO2 OF 4 A					

#### DWG.NO. **ISSUE** DWG.NO. **ISSUE** DRAWING TITLE **COVER SHEET** C01 E19 WIND FRAME ELEVATION: FRAME LINE -A H /4-5 C02 LEGENDS AND ABBREVIATIONS E20 Α **DETAIL DRAWINGS** C03 DRAWING INDEX E21 DETAIL DRAWINGS UNLOADING HANDLING AND STORING OF MATERIALS C04 E22 **DETAIL DRAWINGS** E23 **DETAIL DRAWINGS** F01 COLUMN LAYOUT PLAN E24 **DETAIL DRAWINGS** F02 ANCHOR BOLT DETAILS E25 **DETAIL DRAWINGS** F03 ANCHOR BOLT REACTIONS F04 ANCHOR BOLT REACTIONS F05 ANCHOR BOLT REACTIONS F06 ANCHOR BOLT REACTIONS F07 ANCHOR BOLT REACTIONS F08 ANCHOR BOLT REACTIONS E01 **ROOF FRAMING PLAN** E02 **ROOF SHEETING PLAN** E03 SIDEWALL FRAMING & SHEETING ELEVATION-LINE A E04 SIDEWALL FRAMING & SHEETING ELEVATION-LINE H E05 **ENDWALL FRAMING & SHEETING ELEVATION-LINE 1** E06 **ENDWALL FRAMING & SHEETING ELEVATION-LINE 5** E07 SIDEWALL FRAMING & SHEETING ELEVATION-LINE G & B E08 SIDEWALL FRAMING & SHEETING ELEVATION-LINE 2 / B & G E09 **CRANE BEAM LAYOUT** E10 CRANE DETAILS RIGID FRAME ELEVATION: FRAME LINE -3 & 4 E11 E12 RIGID FRAME ELEVATION: FRAME LINE -5 E13 RIGID FRAME ELEVATION: FRAME LINE - H A / 3-2 E14 RIGID FRAME ELEVATION: FRAME LINE -H G - 1 E15 RIGID FRAME ELEVATION: FRAME LINE -H G - 2 E16 RIGID FRAME ELEVATION: FRAME LINE -B A -1 E17 RIGID FRAME ELEVATION: FRAME LINE -B A -2 E18 RIGID FRAME ELEVATION: FRAME LINE -D E /1.1-2

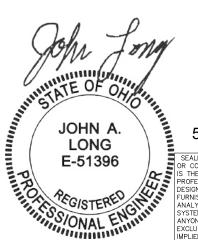


**DRAWING INDEX** 

**DRAWING TITLE** 

	DES.	CHK.	DRN.	DATE	DESCRIPTION	ISSUE
	RDL	FFF	LNT	05/00/25	APPROVAL/PERMIT	Α
81						
٠.						
100 SOUTH						
STACK BULL						

DWG.NO. ISSUE



DRAWING TITLE

DESCRIPTION	DRAWING INDEX				
CUSTOMER	STEEL NATION BU	IILDINGS, IN	NC.		
END USER	COLUMBIA GAS (N	IISOURCE U	JTILITY BUIL	DING)	
END USE	UTILITY BUILDING	i	BUILDING	A (Utility	Building)
STREET	1336 RIDGEVIEW I	ROAD			
CITY ST ZIP	UPPER ARLINGTO				
ALES NO.:	JOB NO.: 4.70.40.4	SCALE: 1 TO	DWG. NO.:		ISSUE:

# UNLOADING, HANDLING AND STORING OF MATERIALS

#### **STRUCTURAL**

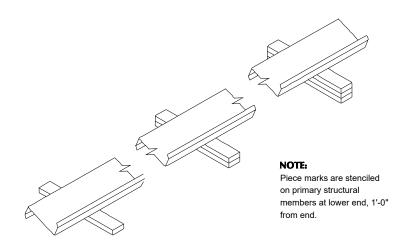
A great amount of time and trouble can be saved if the building site is according to a pre-arranged plan. Proper location and handling of components will eliminate unnecessary

Inspect all shipments prior to releasing the tie-downs for loads that may have shifted during transit, REMEMBER, SAFETY FIRST!

Blocking under the columns and rafters protects the splice plates and the slab from damage during the unloading process. It also facilitates the placing of slings or cables around the members for later lifting and allows members to be bolted together into sub-assemblies while on the ground. Extra care should always be exercised in the unloading operations to prevent injuries from handling the steel and to prevent damage to materials and the concrete slabs

If water is allowed to remain for extended periods in bundles of primed parts such as girts, purlins etc., the pigment will fade and the paint will gradually soften, reducing the bond to the steel. Therefore, upon receipt of a job, all bundles of primed parts should be stored at an angle to allow any trapped water to drain away and permit air circulation for drying. Puddles of water should not be allowed to collect and remain on columns, rafters or beams

All Primer should be touched up as required before erection!



#### WALLS AND ROOF PANELS

RIGID's wall and roof panels including color coated, galvalume and galvanized, provide excellent service under widely varied conditions. All unloading and erection personnel should fully understand that these panels are quality merchandise which merit cautious care in

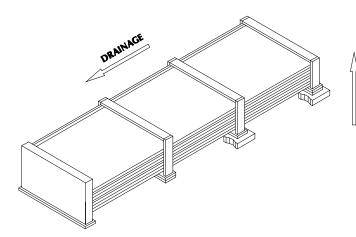
Under no circumstances should panels be handled roughly. Packages of sheets should be lifted off the truck with extreme care taken to insure that no damage occurs to ends of the sheets or to side ribs. The packages should be stored off the ground sufficiently high to allow air circulation underneath the packages. This avoids ground moisture and deters people from walking on the packages. One end of the package should always be elevated to encourage drainage in case of rain.

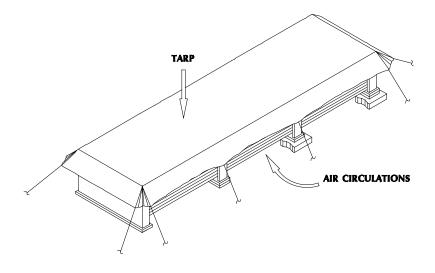
All stacked metal panels are subject, to some degree, to localized discoloration or stain when water is trapped between their closely nested surfaces. RIGID exercises extreme caution during fabricating and shipping operations to insure that all panel stock is kept dry. However, due to climatic conditions, water formed by condensation of humid air can be trapped between stacked sheets. Water can also be trapped between stacked sheets when exposed to rain. This discoloration caused by trapped moisture is often called wet storage

The stain is usually superficial and has little effect on the appearance or service life of the panels as long as it is not permitted to remain on the panels. However, moisture in contact with the surface of the panels over an extended period can severely attack the finish and reduce the effective service life. Therefore, it is imperative that all panels be inspected for moisture upon receipt of the order. If moisture is present, dry the panels at once and store

CAUTION: Care should always be taken when walking on panels. Use saftey lines and nets when necessary! Panels are slippery. Oil or wax applied to the roof and wall panels for protection against weather damage will make them a very slippery surface. Wipe dry any oil that has puddled from bundles stored on a slope. Dew, frost, or other forms of moisture greatly increase the slipperiness of the panels. Always assume panel surface is slippery and act accordingly. Think safety!!

Use wood blocking to elevate and slope the panels in a manner that will allow moisture to drain. Wood blocking placed between bundles will provide additional air circulation. Cover the stacked bundles with a tarp or plastic cover leaving enough opening at the bottom for air





When handling or uncrating the panels, lift, rather than slide, them apart. Burred edges may scratch the coated surfaces when sheets are slid over one another. Never allow panels to be walked on while on the ground.

Rough and improper handling of a panel is inexcusable and a prime example of poor job supervision.

#### NOTE:

Use gloves when handling metal panels to prevent hand injuries. Be aware, of the dangers of handling panels on a windy day. A large panel can catch enough wind to knock a worker off his feet, even at ground level!!

1. OIL CANNING OF PANELS IS NOT A CAUSE OF OIL CANNING OF PANELS IS NOT A CAUSE/OF REJECTION.
 EXTREME CARE MUST BE EXERCISED OF RIVER PIE ERECTION.
 TRIMS. FOOT TRAFFIC MAY RESULT IN DERMANENT PANEL DISTORTION AND FINISH ABRASION.

TE OF

John A.

LONG

E-51396

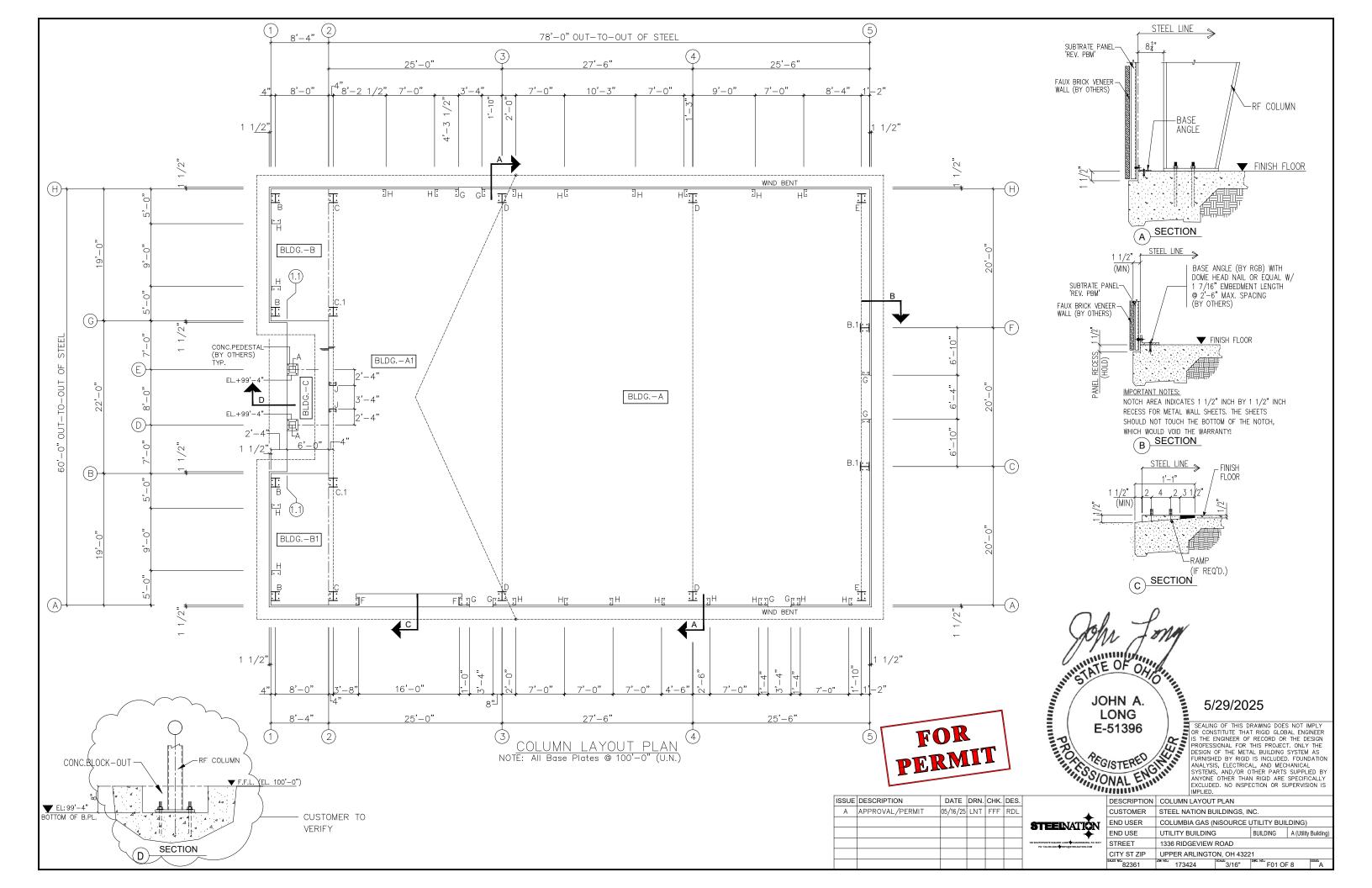
ISSUE DESCRIPTION DATE DRN CHK DES A APPROVAL/PERMIT 05/00/25 LNT FFF RDL

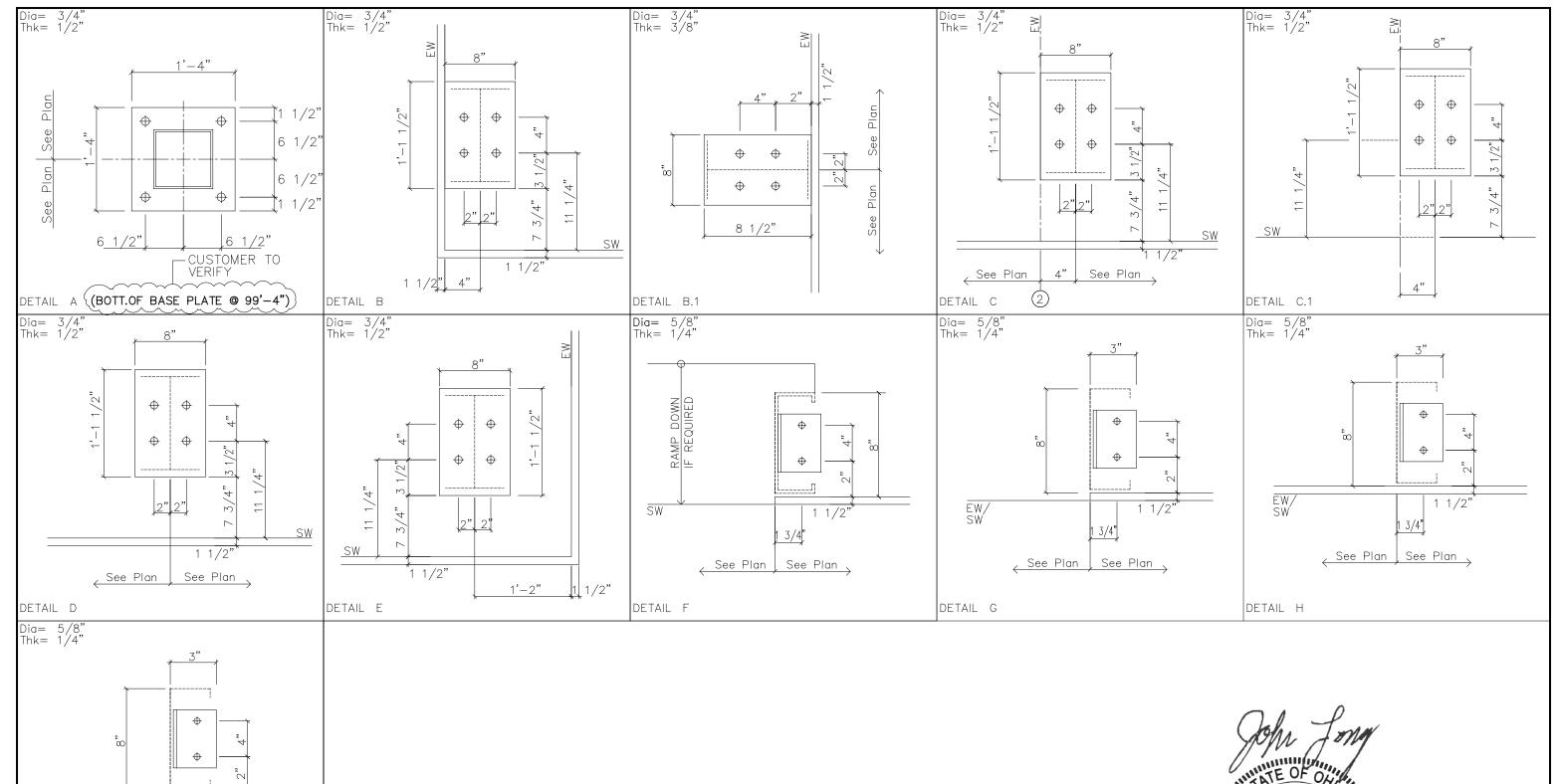
# 5/29/2025

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT RIGID GLOBAL ENGINEER S THE ENGINEER OF RECORD OR THE DESIGN FURNISHED BY RIGID IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY
ANYONE OTHER THAN RIGID ARE SPECIFICALLY
EXCLUDED. NO INSPECTION OR SUPERVISION IS



		HVIF LIED.					
DESCRIPTION	LEGENDS	& ABBR	EVIATIONS				
CUSTOMER	STEEL NA	TION BU	JILDINGS, IN	NC.			
END USER	COLUMBIA	A GAS (N	NISOURCE U	JTILITY BU	ILDING)		
END USE	UTILITY BUILDING BUILDING A (Utility Build						
STREET	1336 RIDG	EVIEW	ROAD				
CITY ST ZIP			N, OH 4322				
ES NO.: 82361	JOB NO.: 17343	24	N T S	DWG. NO.: CO4 C	)F 4	ISSUE:	







ISSUE DESCRIPTION

A APPROVAL/PE

JOHN A.
LONG
E-51396

SEALING OF THIS DRAWING DOES NOT IMPLY
OR CONSTITUTE THAT RIGID GLOBAL ENGINEER
IS THE ENGINEER OF RECORD OR THE DESIGN
PROFESSIONAL FOR THIS PROJECT. ONLY THE
DESIGN OF THE METAL BUILDING SYSTEM AS
FURNISHED BY RIGID IS INCLUDED. FOUNDATION
ANALYSIS, ELECTRICAL, AND MECHANICA
SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY
ANYONE OTHER THAN RIGID ARE SPECIFICALLY
EXCLUDED. NO INSPECTION OR SUPERVISION IS
IMPLIED.

DESCRIPTION ANCHOR BOLT DETAILS

# GENERAL NOTES:

DETAIL J

EW

GENERAL NOTES:

(1) THE ANCHOR BOLT DETAILS SHOWN ON THIS DRAWING LOCATE THE ANCHOR BOLTS IN REFERENCE TO BOTH THE BUILDING STEEL LINE AND THE OUTSIDE OF RIGID'S SUGGESTED PANEL RECESS OF 1-1/2".

(2) THE ANCHOR BOLT SETTING PLAN LOCATES ANCHOR BOLTS IN REFERENCE TO THE OUTSIDE OF THE PANEL RECESS SHOWN. IF THE ACTUAL PANEL RECESS IS DIFFERENT FROM WHAT IS SHOWN ON THE ANCHOR BOLT SETTING PLAN, THEN ALL REFERENCE DIMENSIONS FROM THE OUTSIDE OF THE PANEL RECESS MUST BE DETERMINED BY THE CUSTOWER. 3) BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION.

(UNLESS NOTED)

See Plan

3/4"

See Plan 、

ONLY ANCHOR BOLTS SETTING PLAN ISSUED & STAMPED "FOR CONSTRUCTION" SHALL BE USED IN SETTING ANCH BOLTS. 'RIGID GLOBAL BUILDINGS' SHALL NOT BE RESPONSIBLE FOR ERROR OR DISCREPANCY IF THE DRAWING US

_	0	+	1/2"	1"	ANCHOR BOLT PROJECTION	DETAIL OF AN
D	64	<del>+</del>	5/8"	2"	"PROJ." IS MEASURED FROM	BOLT AS PER
HOR	72	+	3/4"	2 1/2"	BOTTOM OF BASE PLATE	SUPPLIER
DN- SED	0	+	7/8"	2 3/4"		
JLD	0	+	1"	3"	LENGTH OF "PROJ." SHOWN IS	NUTS & WASI
	0	+	1 1/8"	3 1/2"	FOR ONE NUT + ONE WASHER	BY SUPPLIER
	0	+	1 1/2"	3 1/2"	ANCHOR BOLTS NOT BY RIGID GLO	BAL BUILDINGS

QTY. SYMBOL DIA. PROJ. ANCHOR BOLT DETAIL ANCHOR BOLT PROJECTION "PROJ." IS MEASURED FROM BOTTOM OF BASE PLATE

DETAIL OF ANCHOR BOLT AS PER THE SUPPLIER

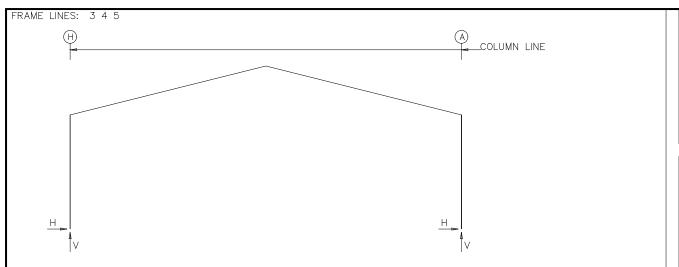
LENGTH OF "PROJ." SHOWN IS NUTS & WASHERS FOR ONE NUT + ONE WASHER BY SUPPLIER

	RDL	FFF	LNT	05/16/25	ERMIT
STEEDNATK					
100 SOUTHPOINTE SQUARE LANE CANONSBUR					

DATE DRN. CHK. DES.



18606665	IMPLIED				
DESCRIPTION	ANCHOR BOLT D	ETAILS			
CUSTOMER	STEEL NATION B	UILDINGS, IN	NC.		
END USER	COLUMBIA GAS	NISOURCE U	JTILITY BUII	LDING)	
END USE	UTILITY BUILDIN	G	BUILDING	A (Utility	Building
STREET	1336 RIDGEVIEW	ROAD			
CITY ST ZIP	UPPER ARLINGT				
82361	173424	N.T.S.	F02 OF	- 8	A A



RIGID	FRAN	1E:	MAXIMUI	M REAC	ΠΟΝS,	ANCHOR	BOLTS,	& E	BASE PL	ATES			
Frm Line	Col Line		Hmax H	umn_Re V Vmax		s(k) - Hmin H	V Vmin		It(in) Dia	Base Width	e_Plate(i Length	in) Thick	Grout (in)
3*	Н	1 21	11.6 10.9	25.2 28.8	6 10	-5.7 -0.2	-9.5 -10.1	4	0.750	8.000	13.50	0.500	0.0
3*	Α	7 22	5.7 -10.9	-9.5 28.8	1 12	-11.6 0.2	25.2 -10.1	4	0.750	8.000	13.50	0.500	0.0
3*	Frame	lines:	3 4										

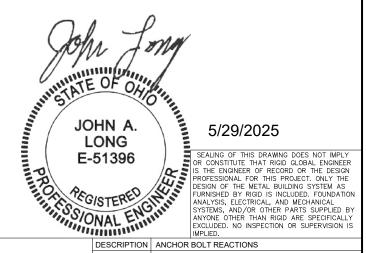
RIGID	FRAM	1E:	MAXIMU	M REAC	ΠΟΝS,	ANCHOR	R BOLTS,	& E	BASE PL	ATES			
Frm Line	Col Line	Load Id	—— Coli Hmax H	umn_Re V Vmax	action: Load Id	s(k) - Hmin H	V Vmin	Bol Qty	t(in) Dia	Base Width	e_Plate(i Length	in) Thick	Grout (in)
5	Н	26 24	6.5 6.5	15.7 19.4	6 10	-4.2 -0.5	-7.1 -8.5	4	0.750	8.000	13.50	0.500	0.0
5	А	7 25	4.2 -6.5			-6.5 0.5		4	0.750	8.000	13.50	0.500	0.0

ENDW	VALL (	COLUN	MN:	BASIC (	COLUMN	I REAC	TIONS (k	)						
Line L	Col Dec Line Ver C 0. F 0.	ad F -t F 3 -	Wind Press Horz -5.2 -5.2	Wind Suct Horz 5.8 5.8	Seis Long Horz 0.1 0.1	3								
ENDW	VALL (	COLUN					ANCHOR	BOLT	ΓS, & Β <i>ι</i>	ASE PLA	TES			
Frm Line		Load Id	Hmax H	umn_Re V Vmax		Hmin H	V Vmin	Bo Qty	It(in) Dia	Base Width	e_Plate(i Length	n) Thick	Grout (in)	
5	С	31 14	3.5 -0.1	0.2 0.3	30	-3.1	0.2	4	0.750	8.000	8.500	0.375	0.0	
5	F	31 14	3.5 -0.1	0.2 0.3	30	-3.1	0.2	4	0.750	8.000	8.500	0.375	0.0	

RIGID	FRAN	ЛЕ: в	ASIC COL	LUMN REA	ACTIONS	(k )								
Frame Line 3* 3*	Column Line H A	Horz	-Dead Vert 3.8 3.8		ateral— Vert 4.4 4.4	 Horz 7.8 -7.8	-Live Vert 17.0 17.0	 Horz 7.8 -7.8	-Snow Vert 17.0 17.0	———Wind Horz —11.1 1.1	─Vert -19.6		Ŭert −12.8	
Frame Line 3* 3*	Column Line H A	Wind Horz -10.1 0.1	_Left2- Vert -12.3 -5.5	Horz	Right2- Vert -5.5 -12.3	Horz	Verť	Wind Horz -3.6 1.9	d_Long2- Vert -18.4 -20.6	-Seism Horz -0.7 -0.7	ic_Left Vert -0.4 0.4	Seismic Horz 0.7 0.7	_Right Vert 0.4 -0.4	
Frame Line 3* 3*	Column Line H A	Horz	ic_Long Vert -1.1 -2.1	Horz	NOW Vert 17.0 17.0	Horz	Vert 10.1 5.5	Horz	Vert 10.5 5.0	-F2CRN Horz 0.5 -1.6	Vert		Vert 5.5	
Frame Line 3* 3*	Column Line H A	Horz	SL_L- Vert 16.4 9.2	F2UNB_ Horz 6.3 -6.3	_SLR- Vert 9.2 16.4									
Frame Line 5 5	Column Line H A	Horz	-Dead Vert 2.5 2.5	Horz	ateral— Vert 2.4 2.4	 Horz 4.4 -4.4	-Live Vert 9.8 9.8	Horz 4.4 –4.4		Wind Horz -7.9 1.4	_ Vert −14.4		Vert −9.6	
Frame Line 5 5	Column Line H A	Horz		Horz	Right2— Vert -5.4 -10.2	Horz	Vert −16.7	−−Wind Horz −3.2 1.8	l_Long2- Vert -14.9 -16.7	Horz -0.6	Vert −0.3		_Right Vert 0.3 -0.3	
Frame Line 5 5		Horz	Vert	Horz	NOW Vert 9.8 9.8	Horz	Vert 9.1 4.6	Horz	Vert 9.5 4.1	Horz	Vert 4.1 9.5		Vert	
Frame Line 5 5	Column Line H A	Horz	Vert	3.5	_SL_R- Vert 5.3 9.5									
3* F	Frame lin	es:	3 4											
a - 0ı	ut-Of-Pl	ane Hori:	zontal Lo	ad										



SSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
Α	APPROVAL/PERMIT	05/16/25	LNT	FFF	RDL	



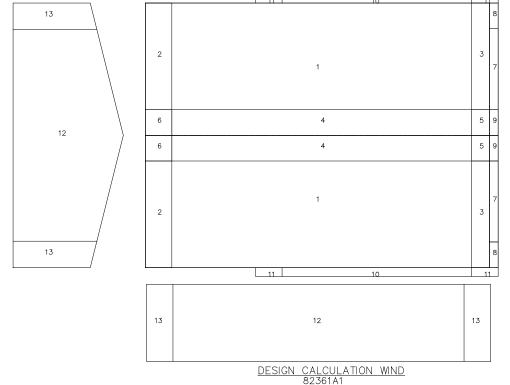


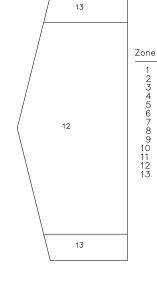
1110000		IMPLIED.								
DESCRIPTION	ANCHOR	BOLT RE	EACTIONS							
CUSTOMER	STEEL NATION BUILDINGS, INC.									
END USER	COLUMBI	COLUMBIA GAS (NISOURCE UTILITY BUILDING)								
END USE	UTILITY BUILDING BUILDING A (Utility Buildin									
STREET	1336 RIDO	SEVIEW	ROAD							
CITY ST ZIP	UPPER ARLINGTON, OH 43221									
82361	1734	24	N.T.S.	ржа. No.: F03 C	)F 8	ISSUE:				

#### COLUMN: BASIC COLUMN REACTIONS (k ) Wind Seis Frm Col Press Suct Long Vert 0.3 Line Line Horz Horz Horz -5.25.8 5.8 0.1 ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES —Column\_Reactions(k ) nax V Load Hmin I Vmax Id H Frm Col Load Hmax Bolt(in) Base\_Plate(in) Grout Line Line Vmin Qty Dia Width Length Thick 31 14 0.2 0.3 30 5 С -3.14 0.750 8.000 8.500 0.375 0.0 -0.13.5 -0.1 30 5 4 0.750 8.000 8.500 0.375 0.0

BUILD	OINC	BRA	ACING	RE	ACTI	ONS			
Wall		Col Line	Wi	nd —		śmic –	(lb)	/ft)	Note
L_EW F_SW R_EW	2 A 5	4,5	4.0	5.2	1.6	2.1			(h) (b) (h)
B_SW	Ĥ	4,5	4.0	5.2	0.8	1.1			(b)
(b)Wind (h)Rigid	l fran	ne at é	ndwall						
——Wall Loc L		Col	Reacti Cro Horz	ne	)				
F_SW A B_SW H	۸ ا	4 ,5 5 ,4	1.0 1.0	0.4 0.4					
Reaction Reaction						force,	Eh		







# Dead+Collateral+Snow+Slide\_Snow Dead+Collateral+0.75Live+0.45Wind\_Long1R Dead+Collateral+0.75Live+0.45Wind\_Long2L Dead+Collateral+0.75Snow+0.45Wind\_Left1+0.75Snow\_Drift Dead+Collateral+0.75Snow+0.45Wind\_Left1+0.75Slide\_Snow 0.6Dead+0.6Wind\_Left1

Importance — Seismin Seismic Design Category = B
Seismic Design (Sms) = 0.19

0.6Dead+0.6Wind\_Right1 0.6Dead+0.6Wind\_Left2 0.6Dead+0.6Wind\_Right2 0.6Dead+0.6Wind\_Long1L 0.6Dead+0.6Wind\_Long1F

NOTES FOR REACTIONS

opposite directions.

Eave Height Roof Slope

Live Load

Snow Load Wind Speed Wind Code

Exposure

5. Loading conditions are:

Closure

Roof Dead Load

Collateral Load

Internal Wind Coeff

Risk Category Importance — Wind Importance — Seismic

Length

corresponding H or V are reported.

12 0.6Dead+0.6Wind\_Long2L 13 0.6Dead+0.6Wind\_Long2R 14 1.02Dead+1.02Collateral+0.7Seismic\_LongR

15 Dead+Collateral+F1CRNA\_2

15 Dead+Collateral+F1CRNA\_3
16 Dead+Collateral+F1CRNA\_3
17 Dead+0.75Snow+0.3Wind\_Left1+0.75F1CRNA\_1
18 Dead+0.75Snow+0.3Wind\_Right1+0.75F1CRNA\_4
19 Dead+Collateral+F1UNB\_SL\_L

Dead+Collateral+F10NB\_SL\_R
Dead+Collateral+F10NB\_SL\_R
Dead+Collateral+O.75Snow+O.75Slide\_Snow+O.75F2CRNA\_2
Dead+Collateral+O.75Snow+O.75Slide\_Snow+O.75F2CRNA\_3
Dead+Collateral+O.75Snow+O.75Slide\_Snow+O.75F3CRNA\_1

1. All loading conditions are examined and only maximum/minimum H or V and the

= OBC 24 (IBC 21)

= Enclosed

=-0.18, +0.18

=II - Normal = 1.00 = 1.00

2. Positive reactions are as shown in the sketch. Foundation loads are in

3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.

e based on the following but (ft) = 60.0 (ft) = 78.0 (ft) = 17.5 / 17.5 (rise/12) = 3.00 / 3.00 (psf) = 3.0

(psf) = 20.0 (psf) = 5.0 (psf) = 20.0 (mph) = 115.0

4. Building reactions are based on the following building data:

24 Dead+Collateral+0.75Snow+0.75Slide\_Snow+0.75F3CRNA\_2 25 Dead+Collateral+0.75Snow+0.75Slide\_Snow+0.75F3CRNA\_3 26 Dead+Collateral+0.75Snow+0.75Slide\_Snow+0.75F3CRNA\_4 27 0.6Dead+0.6Wind\_Left1+0.6Wind\_Suction

28 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long1L 29 0.6Dead+0.6Wind\_Right1+0.6Wind\_Suction 30 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long2L

31 0.6Dead+0.6Wind\_Right2+0.6Wind\_Suction

#### onto 0. Claddina (Fastarad)

		Compone	nts & Cl	adding (F	actored)
Width (ft)	Length (ft)	Pressure( Member	psf ) Panel	Suction() Member	
6.00 6.00 6.00 18.92 6.00 6.00 2.06 2.06	6.00 4.00 6.00 2.00 2.00 2.00 43.00 6.00	10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 14.48	11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 11.45 10.08 17.98 17.98	-10.36 -20.10 -20.10 -20.10 -30.15 -30.15 -48.39 -60.62 -22.86 -25.60 -16.00 -17.12	-33.22 -48.50 -48.50 -57.47 -57.47 -53.49 -62.46 -71.76 -38.10 -62.48 -19.51 -23.99
		(+) wind	towards	surface	

(-) wind away from surface

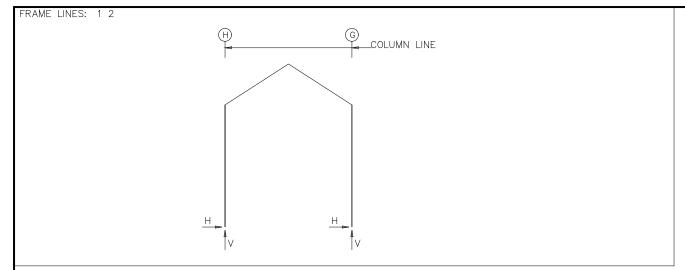
ISSUE	DESCRIPTION	DATE				
Α	APPROVAL/PERMIT	05/16/25	LNT	FFF	RDL	
						١,
						1



# 5/29/2025



48884444		IMPLIED.				
DESCRIPTION	ANCHOR	BOLT RE	ACTIONS			
CUSTOMER	STEEL NA	TION BU	JILDINGS, IN	IC.		
END USER	COLUMBI	A GAS (N	NISOURCE U	JTILITY BU	ILDING)	
END USE	UTILITY B	UILDING	i	BUILDING	A (Utility	Building)
STREET	1336 RID	SEVIEW	ROAD			
CITY ST ZIP			N, OH 4322			
82361	1734	24	N.T.S.	F04 C	)F 8	A A



RIGID	FRAN	RAME: MAXIMUM REACTIONS, ANCHOR BOLTS,							& BASE PLATES					
Frm Line		Load	Hmax H	V	Load	s(k ) - Hmin H	V Vmin	Bo Qty	It(in) Dia	Base_Plate( Width Length	in) Thick	Grout (in)		
1	Н	2 3	1.2 0.4	1.7 4.8		-1.4 0.6	-1.0 -4.4	4	0.750	8.000 13.50	0.500	0.0		
1	G	6 3	1.4 -0.4	-1.0 4.8	1 7	-1.2 -0.6	1.7 -4.4	4	0.750	8.000 13.50	0.500	0.0		

RIGID	FRAM	IE:	MAXIMU	M REACT	TONS,	ANCHOF	R BOLTS,	& E	BASE PL	ATES			
Frm Line	Col Line	Load Id	Hmax H	umn_Red V Vmax	action Load Id	s(k ) - Hmin H	V Vmin	Bol Qty	t(in) Dia	Bas Width	e_Plate(i Length	in) Thick	Grout (in)
2	Н	2 8	2.3 1.7	2.9 10.0	5 4	-2.6 -1.9	-2.1 -2.8	4	0.750	8.000	13.50	0.500	0.0
2	G	6 3	2.6 -0.8	-2.1 6.2	1 7	-2.3 -1.2	2.9 -5.0	4	0.750	8.000	13.50	0.500	0.0

BUILDING BRACING REACTIONS	
± Reactions(k ) Panel_Shear —Wall — Col —Wind — —Seismic — (lb/ft) Loc Line Line Horz Vert Horz Vert Wind Seis N	Note
L_EW 1 F_SW G 1,2 2.9 6.1 0.2 0.5 R_EW 2.1 <b>Braced to BldgA</b> B_SW H <b>Braced to BldgA</b>	(h)
(h)Rigid frame at endwall	
Reactions for seismic represent shear force, Eh Reaction values shown are unfactored	

RIGID FRAME: BASIC	COLUMN REACTIONS (k )		
Frame ColumnDeac Line Line Horz Ver 1 H 0.0 C 1 G 0.0 C	t Horz Vert Horz Vert	SnowWind_Left1- Horz Vert Horz Vert 0.1 1.5 -1.6 -3.0 -0.1 1.5 -1.8 0.9	-Wind_Right1- Horz Vert 1.8 0.9 1.6 -3.0
Frame Column ——Wind_Lef Line Line Horz Ver 1 H —2.1 —2 1 G —1.3 1	t Horz Vert Horz Vert 2.5 1.3 1.5 1.0 -7.9	Wind_Long2Seismic_Left Horz Vert Horz Vert 0.6 -6.0 -0.1 -0.1 -0.6 -6.0 -0.1 0.1	Seismic_Right Horz Vert 0.1 0.1 0.1 -0.1
Frame         Column         —Seismic_Lo           Line         Line         Horz         Ver           1         H         0.0         —0           1         G         0.0         —0		Wind_Left4-       -Wind_Right4-         Horz       Vert       Horz       Vert         -2.3       -2.3       1.5       2.3         -1.5       2.3       2.3       -2.3	-MIN_SNOW Horz Vert 0.1 1.5 -0.1 1.5
Frame ColumnDeac Line Line Horz Ver 2 H 0.1 C 2 G -0.1 C	t Horz Vert Horz Vert	SnowWind_Left1- Horz Vert Horz Vert 0.2 2.5 -3.2 -5.6 -0.2 2.5 -3.4 2.1	-Wind_Right1- Horz Vert 3.4 2.1 3.2 -5.6
Frame Column ——Wind_Lef Line Line Horz Ver 2 H —4.1 —4 2 G —2.5 3	rt Horz Vert Horz Vert	Wind_Long2Seismic_Left Horz Vert Horz Vert 1.2 0.1 -0.2 -0.5 -1.2 -6.0 -0.2 0.5	Seismic_Right Horz Vert 0.2 0.5 0.2 —0.5
Frame Column —Seismic_Lo Line Line Horz Ver 2 H 0.0 C 2 G 0.0 —C	rt Horz Vert Horz Vert	Wind_Left4Wind_Right4- Horz Vert Horz Vert -4.5 -4.4 2.9 4.5 -2.9 4.5 4.5 -4.4	-MIN_SNOW Horz Vert 0.2 2.5 -0.2 2.5
Frame Column -F2CRNA_1-Line Line Horz Ver 2 H 0.3 7 2 G -0.8 2	t Horz Vert Horz Vert	-F2CRNA_4 Horz Vert 0.6 3.8 -0.1 0.3	

## NOTES FOR REACTIONS

- 1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- 2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- 3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.

from the braced bay. The vertical reaction is downward.

4. Building reactions are based on the following building data:

Width

Length

Eave Height

Roof Slope

(rise/12) = 7.74 / 7.74

Roof Dead Load

(psf) = 2.7

Live Load

Collateral Load

Snow Load

Wind Speed

Wind Speed

Wind Code

Exposure

Closure

Live Load

Collateral Load

Exposure

Box Now Load

Collateral Load

Co Closure
Internal Wind Coeff
Risk Category
Importance — Wind
Importance — Seismic = Enclosed = -0.18, +0.18 = II - Normal = 1.00 = 1.00 Seismic Design Category = B Seismic Coeff (Sms) = 0.19

5. Loading conditions are:

Dead+0.6Wind\_Left3

Dead+0.6Wind\_Right3
Dead+Collateral+0.75Snow+0.45Wind\_Long2R+0.75Slide\_Snow

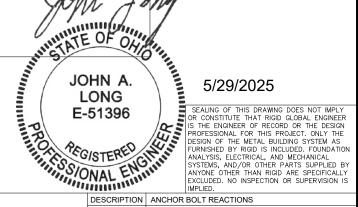
0.6Dead+0.6Wind\_Left1

0.6Dead+0.6Wind\_Left4

5 0.6Dead+0.6Wind\_Lett4
6 0.6Dead+0.6Wind\_Right4
7 0.6Dead+0.6Wind\_Long1L
8 Dead+0.75Snow+0.3Wind\_Right2+0.75Slide\_Snow+0.75F2CRNA\_2
9 0.6Dead+0.6Wind\_Suction+0.6Wind\_Long1L
10 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long1L
11 Dead+Collateral+CRANEA1

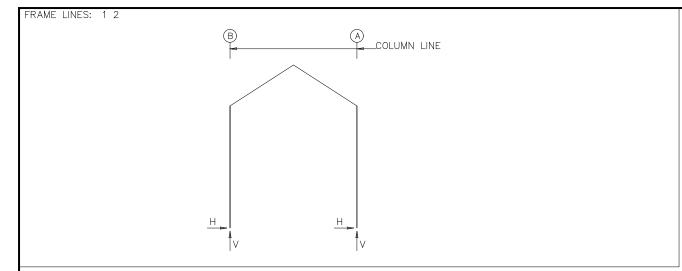


ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Α	APPROVAL/PERMIT	05/16/25	LNT	FFF	RDL





80000-		IMPLIED.				
DESCRIPTION	ANCHOR	BOLT RE	ACTIONS			
CUSTOMER	STEEL NA	TION BL	JILDINGS, IN	NC.		
END USER	COLUMBI	A GAS (N	NISOURCE U	JTILITY BUI	LDING)	
END USE	UTILITY B	UILDING	i	BUILDING	A (Utility	Building)
STREET	1336 RID	SEVIEW	ROAD			
CITY ST ZIP			N, OH 4322			
ES NO.: 82361	JOB NO.: 1734	24	N.T.S.	F05 OI	- 8	issue: A



RIGID	FRAN	1E:	MAXIMUI	M REAC	TIONS,	ANCHO	R BOLTS,	& E	BASE PL	ATES			
Frm Line	Col Line	Load Id	Hmax H	umn_Re V Vmax	action Load Id	s(k) - Hmin H	V Vmin	Bol Qty	t(in) Dia	Bas Width	e_Plate(i Length	n) Thick	Grout (in)
1	В	2 3	1.2 0.4	1.7 4.8	5 7	-1.4 0.6	-1.0 -4.4	4	0.750	8.000	13.50	0.500	0.0
1	Α	6	1.4	-1.0 4.8	1 7	-1.2 -0.6	1.7 -4.4	4	0.750	8.000	13.50	0.500	0.0

RIGID	FRAN	1E:	MAXIMUI	M REAC	TIONS,	ANCHO	R BOLTS,	&c E	BASE PL	ATES			
Frm Line	Col Line	Load Id	Hmax H	umn_Re V Vmax	actions Load Id	s(k) - Hmin H	V	Bo Qty	It(in) Dia	Bas Width	e_Plate(i Length	n) Thick	Grout (in)
2	В	2 3	2.3 0.8				-2.1 -5.0					0.500	
2	Α	6 8	2.6 -1.7	-2.1	1 4	-2.3 1 9	2.9 -2.8	4	0.750	8.000	13.50	0.500	0.0

BUILDING	BRA	CING R	EACTI	ONS		
——Wall —— Loc Line	Col Line	± Read Wind - Horz Vert	ctions(k — —Sei — Horz — —	) ismic — Vert - ——	Panel_Sher (lb/ft) Wind Seis	ar Note
L_EW 1 F_SW A R_EW 2.1 B_SW B	Braced Braced 2,1	to BldgA to BldgA 2.9 6.1	0.2	0.5		(h)
(h)Rigid fram						
Reactions fo Reaction valu	r seism ues sho	ic represen wn are unf	t shear actored	force,	Eh	

RIGID FRAME: BASIC C	COLUMN REACTIONS (k )		
Frame ColumnDead- Line Line Horz Vert 1 B 0.0 0.6 1 A 0.0 0.6	Horz Vert Horz Vert 0.0 0.4 0.1 1.5	SnowWind_Left1- Horz Vert Horz Vert 0.1 1.5 -1.6 -3.0 -0.1 1.5 -1.8 0.9	-Wind_Right1- Horz Vert 1.8 0.9 1.6 -3.0
Frame Column ——Wind_Left2 Line Line Horz Vert 1 B —2.1 —2.5 1 A —1.3 1.5	Horz Vert Horz Vert 5 1.3 1.5 1.0 -7.9	Wind_Long2Seismic_Left Horz Vert Horz Vert 0.6 -6.0 -0.1 -0.1 -0.6 -6.0 -0.1 0.1	Seismic_Right Horz Vert 0.1 0.1 0.1 -0.1
Frame         Column         —Seismic_Lon           Line         Line         Horz         Vert           1         B         0.0         -0.5           1         A         0.0         -0.5	™ Horz Vert Horz Vert 5 —1.8 —2.8 2.0 1.8	Wind_Left4-       -Wind_Right4-         Horz       Vert       Horz       Vert         -2.3       -2.3       1.5       2.3         -1.5       2.3       2.3       -2.3	-MIN_SNOW Horz Vert 0.1 1.5 -0.1 1.5
Frame ColumnDead- Line Line Horz Vert 2 B 0.1 0.9 2 A -0.1 0.9	Horz Vert Horz Vert	SnowWind_Left1- Horz Vert Horz Vert 0.2 2.5 -3.2 -5.6 -0.2 2.5 -3.4 2.1	-Wind_Right1- Horz Vert 3.4 2.1 3.2 -5.6
Frame Column ——Wind_Left2 Line Line Horz Vert 2 B —4.1 —4.5 2 A —2.5 3.1	Horz Vert Horz Vert 5 2.5 3.1 1.9 -9.2	Wind_Long2Seismic_Left Horz Vert Horz Vert 1.2 -6.0 -0.2 -0.5 -1.2 0.1 -0.2 0.5	Seismic_Right Horz Vert 0.2 0.5 0.2 -0.5
Frame Column —Seismic_Lon- Line Line Horz Vert 2 B 0.0 -0.5 2 A 0.0 0.0	™ Horz Vert Horz Vert 5 —3.5 —5.5 3.8 3.4	Wind_Left4Wind_Right4- Horz Vert Horz Vert -4.5 -4.4 2.9 4.5 -2.9 4.5 4.5 -4.4	-MIN_SNOW Horz Vert 0.2 2.5 -0.2 2.5
Frame Column -F2CRNA_1 Line Line Horz Vert 2 B 0.1 0.3 2 A -0.6 3.8	Horz Vert Horz Vert 0.5 1.1 0.5 1.2	-F2CRNA_4 Horz Vert 0.8 2.0 -0.3 7.6	

## NOTES FOR REACTIONS

- 1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- 2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- 3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- 4. Building reactions are based on the following building data:

  Width

  Length

  Eave Height

  Roof Slope

  Roof Dead Load

  Width

  (ft) = 19.0

  (ft) = 19.4

  (ft) = 18.3 / 18.3

  (rise/12) = 7.74 / 7.74

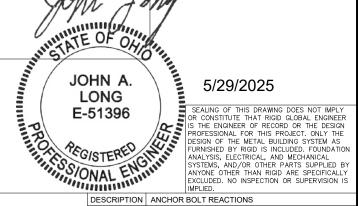
  (psf) = 2.7 (pst) = 2.7 (psf) = 20.0 (psf) = 5.0 (psf) = 20.0 (mph) = 115.0 = OBC 24 (IBC 21) = C = Enclosed = -0.18, +0.18 = II - Normal = 1.00 = 1.00 Live Load Collateral Load Snow Load Wind Speed Wind Code Exposure Closure Internal Wind Coeff Risk Category = II - N Importance - Wind = 1.00 Importance - Seismic = 1.00 Seismic Design Category = B Seismic Coeff (Sms) = 0.19
- 5. Loading conditions are:
  - Dead+0.6Wind\_Left3

  - Dead+0.6Wind\_Left3
    Dead+0.6Wind\_Right3
    Dead+Collateral+0.75Snow+0.45Wind\_Long2R+0.75Slide\_Snow
    0.6Dead+0.6Wind\_Right1
    0.6Dead+0.6Wind\_Left4
- 5 0.6Dead+0.6Wind\_Lert4
  6 0.6Dead+0.6Wind\_Right4
  7 0.6Dead+0.6Wind\_Long1L
  8 Dead+0.75Snow+0.3Wind\_Left2+0.75Slide\_Snow+0.75F2CRNA\_3
  9 0.6Dead+0.6Wind\_Suction+0.6Wind\_Long1L
  10 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long1L

- 11 Dead+Collateral+CRANEA1

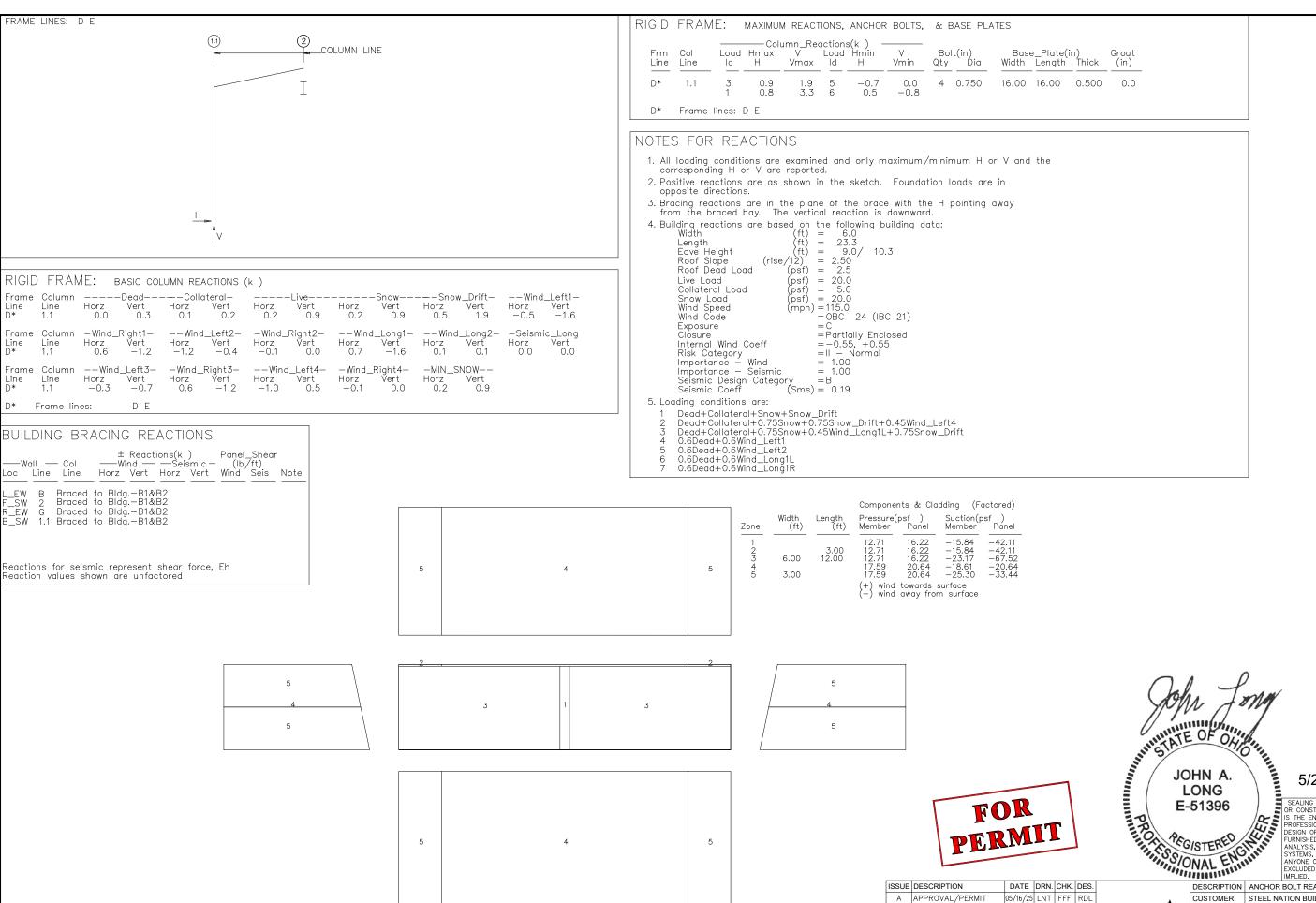


ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Α	APPROVAL/PERMIT	05/16/25	LNT	FFF	RDL





1111111111		IMPLIED.					
DESCRIPTION	ANCHOR	BOLT RE	ACTIONS				
CUSTOMER	STEEL NA	TION BU	JILDINGS, IN	IC.			
END USER	COLUMBI	COLUMBIA GAS (NISOURCE UTILITY BUILDING)					
END USE	UTILITY B	UTILITY BUILDING BUILDING A (Utility Build					
STREET	1336 RID	GEVIEW I	ROAD				
CITY ST ZIP		UPPER ARLINGTON, OH 43221					
82361	1734	24	N.T.S.	F06 O	F 8	A A	



DESIGN CALCULATION WIND 82361C

# 5/29/2025

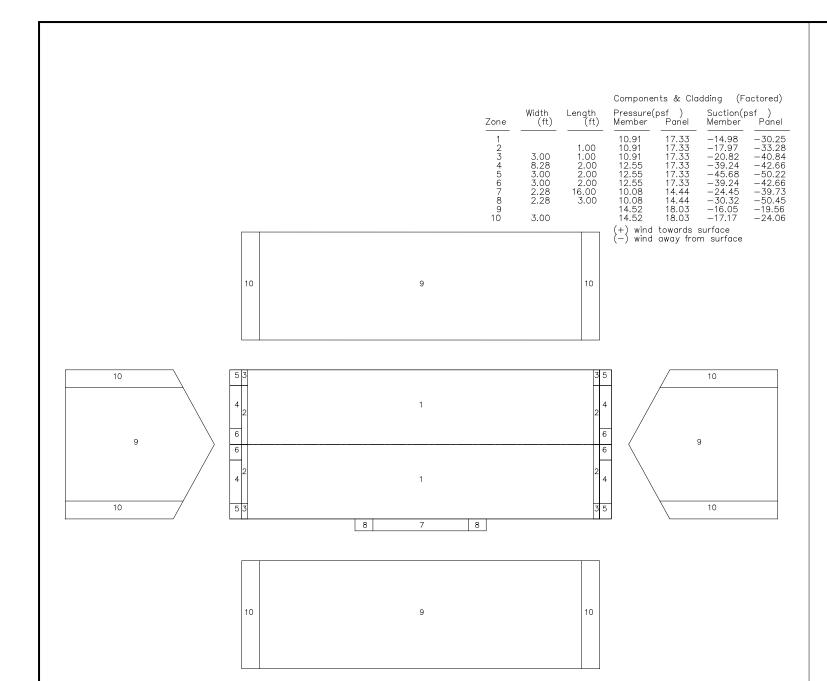
SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT RIGID GLOBAL ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY RIGID IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN RIGID ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.



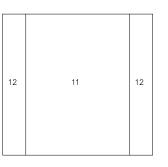
05/16/25 LNT FFF RDL

A APPROVAL/PERMIT

188800	IMPLIED	).			
ESCRIPTION	ANCHOR BOLT F	REACTIONS			
USTOMER	STEEL NATION E	BUILDINGS, IN	NC.		
ND USER	COLUMBIA GAS (NISOURCE UTILITY BUILDING)				
ND USE	UTILITY BUILDING BUILDING A (Utility Building				
TREET	1336 RIDGEVIEW	/ ROAD			
TY ST ZIP	UPPER ARLINGT	. ,			
82361	173424	N.T.S.	F07 OF	8	A A

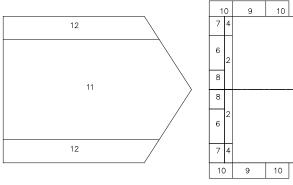


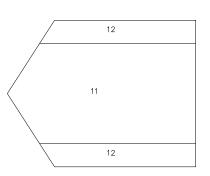
DESIGN CALCULATION WIND 82361A1

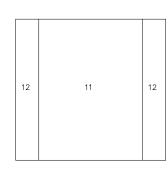


			Compone	nts & Cl	adding (F	actored)
Zone	Width (ft)	Length (ft)	Pressure( Member	psf ) Panel	Suction(p Member	osf ) Panel
1 2 3 4 5 6 7 8 9 10 11	3.00 3.00 5.30 3.00 3.00 2.38 2.38 3.00	1.00 3.00 1.00 3.00 2.00 2.00 2.00 4.33 3.00	10.89 10.89 10.89 10.89 10.13 10.13 10.13 10.08 10.08 13.20 (+) wind	17.30 17.30 17.30 17.30 17.30 17.30 17.30 14.41 14.41 16.48 16.48	-14.95 -17.94 -17.94 -20.77 -20.77 -39.16 -45.59 -39.16 -24.40 -30.26 -14.29 -21.44	-30.20 -33.22 -33.22 -40.77 -40.77 -42.58 -50.13 -42.58 -39.66 -50.37 -16.48 -30.15

(-) wind away from surface







5

DESIGN CALCULATION WIND 82361B

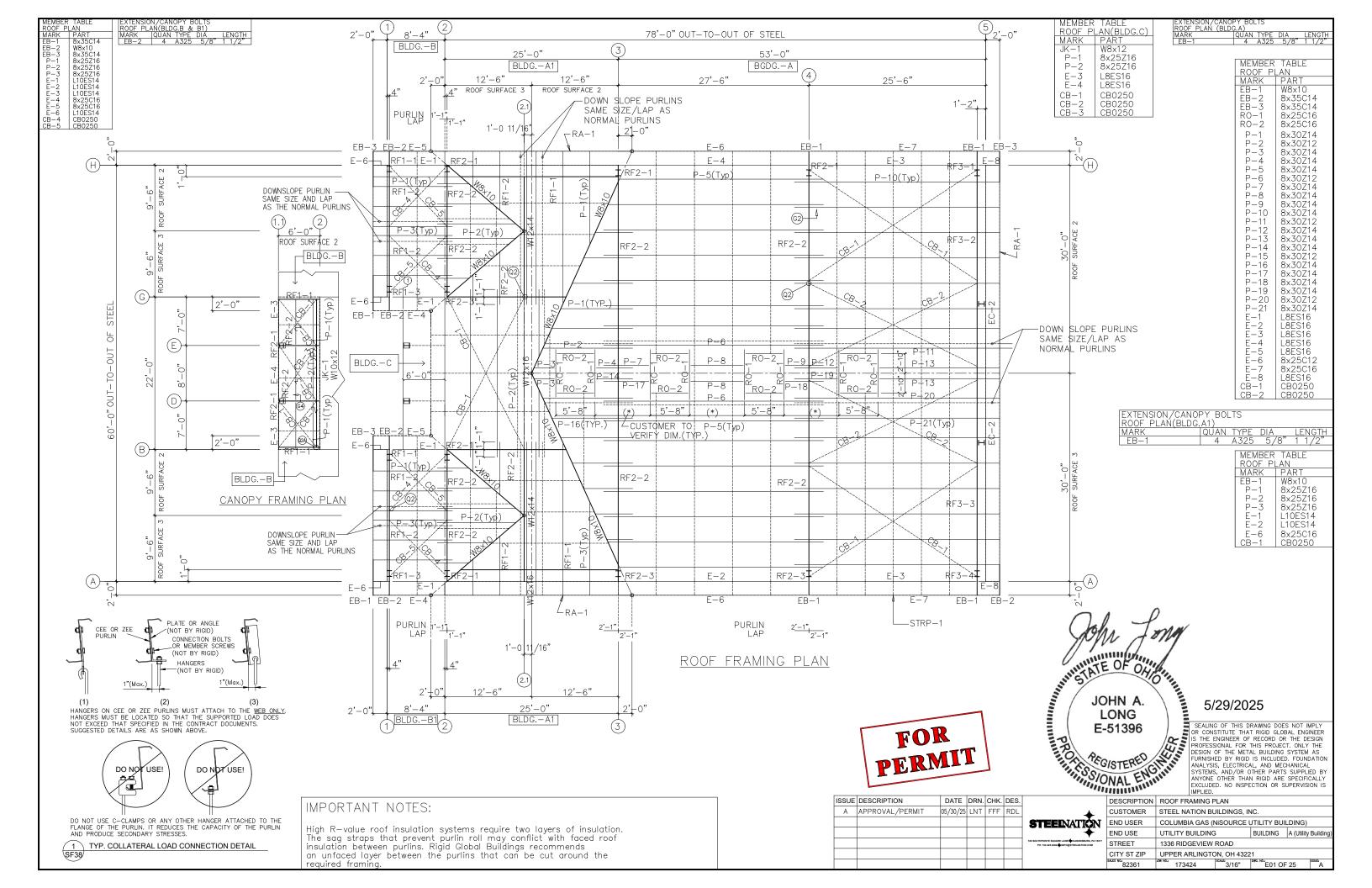


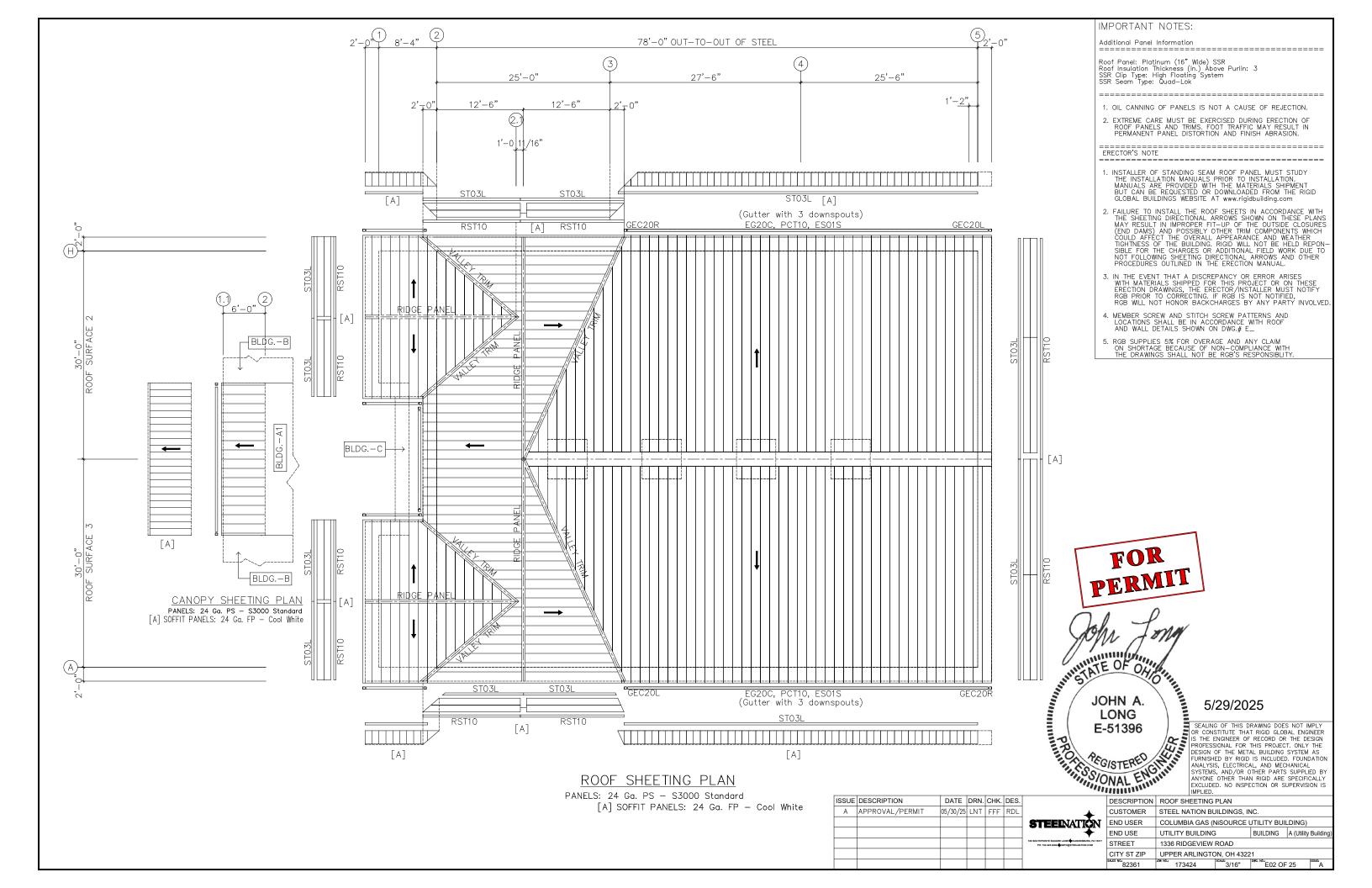
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Α	APPROVAL/PERMIT	05/16/25	LNT	FFF	RDL	
						8
						100 54

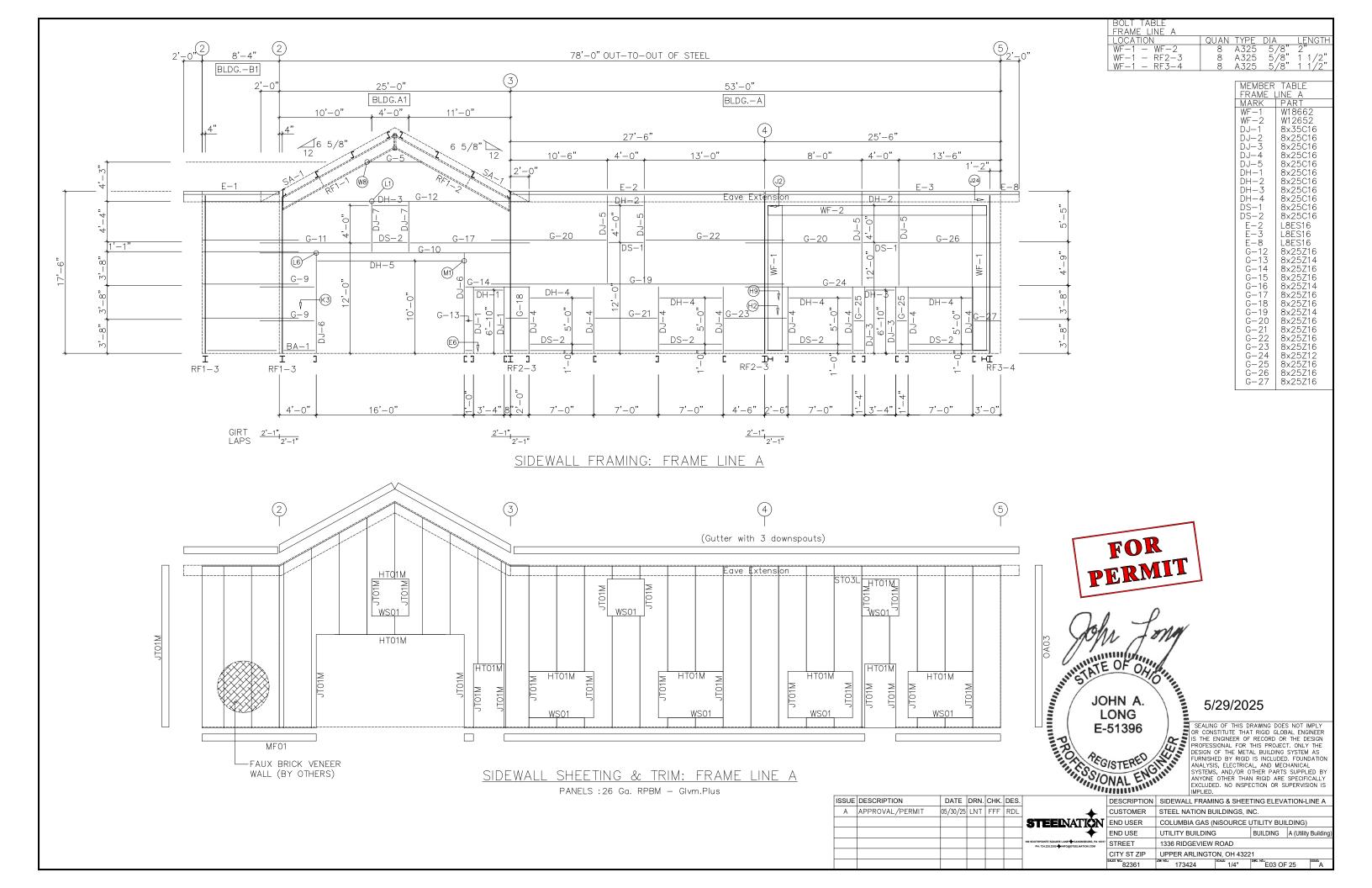


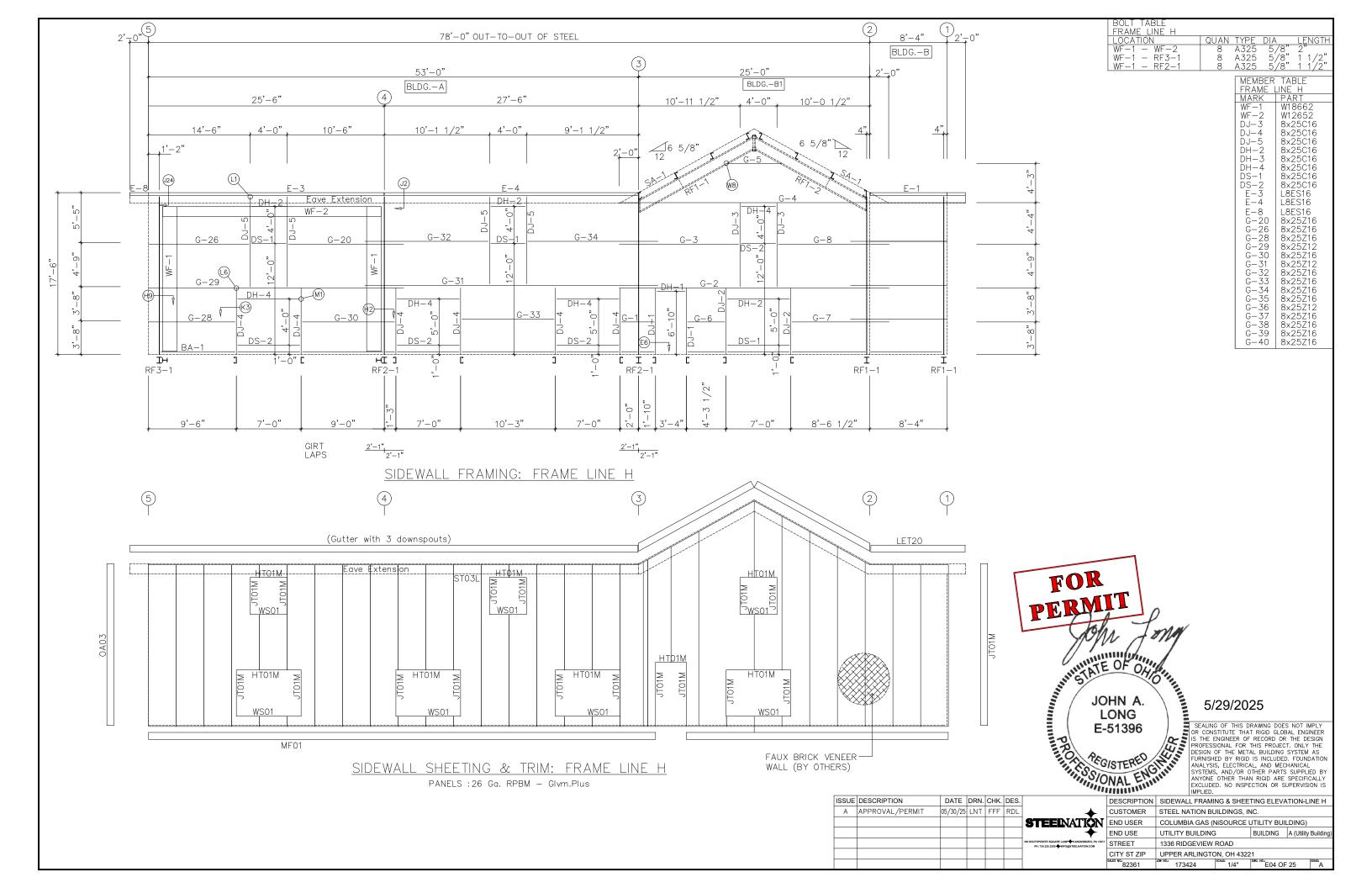


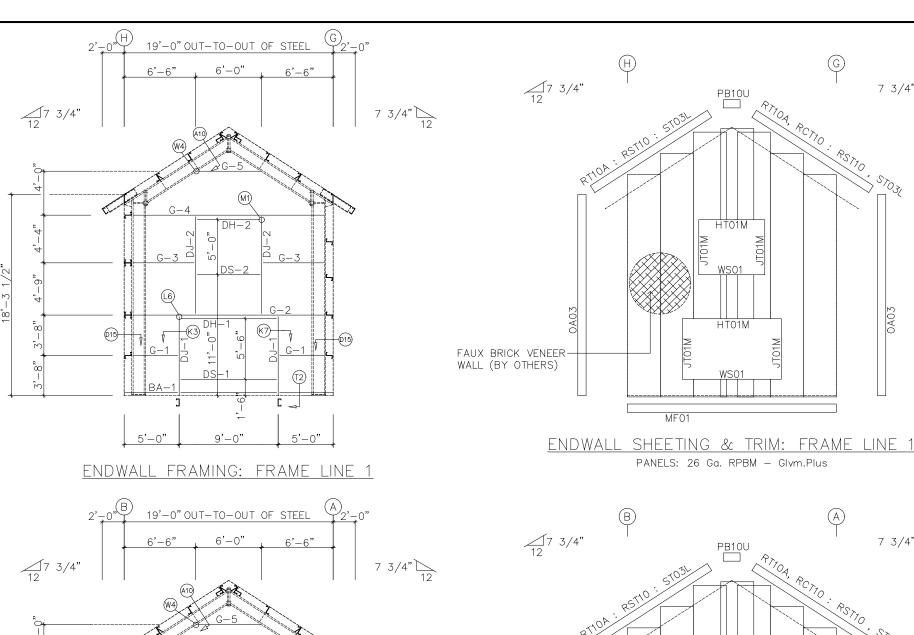
988664		IMPLIED.				
DESCRIPTION	ANCHOR	BOLT REA	ACTIONS			
CUSTOMER	STEEL NA	TION BUI	LDINGS, IN	IC.		
END USER	COLUMBI	A GAS (Ni	SOURCE (	JTILITY BUIL	DING)	
END USE	UTILITY B	UILDING		BUILDING	A (Utility	Building)
STREET	1336 RID	SEVIEW R	OAD			
CITY ST ZIP		RLINGTO	N, OH 4322			
82361	1734	24	N.T.S.	F08 OF	8	issue:











FAUX BRICK VENEER: WALL (BY OTHERS)

ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. RPBM - Glvm.Plus

JOHN A.
LONG
E-51396

SECONSTERED

CONTROL

CONT

# 5/29/2025

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT RIGID GLOBAL ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY RIGID IS INCLUDED, FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN RIGID ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

8x25C16 8x25C16 8x25C16 8x25C16 8x25C16 8x25C16 8x25C16 8x25Z16 8x25Z16 8x25Z16 8x25Z16 8x25Z16 8x25Z16

DJ-2 DH-1 DH-2 DS-1 DS-2 G-1 G-2 G-3

ISSUE DESCRIPTION DATE DRN. CHK. DES. A APPROVAL/PERMIT 05/30/25 LNT FFF RDL STEELN

FOR PERMIT

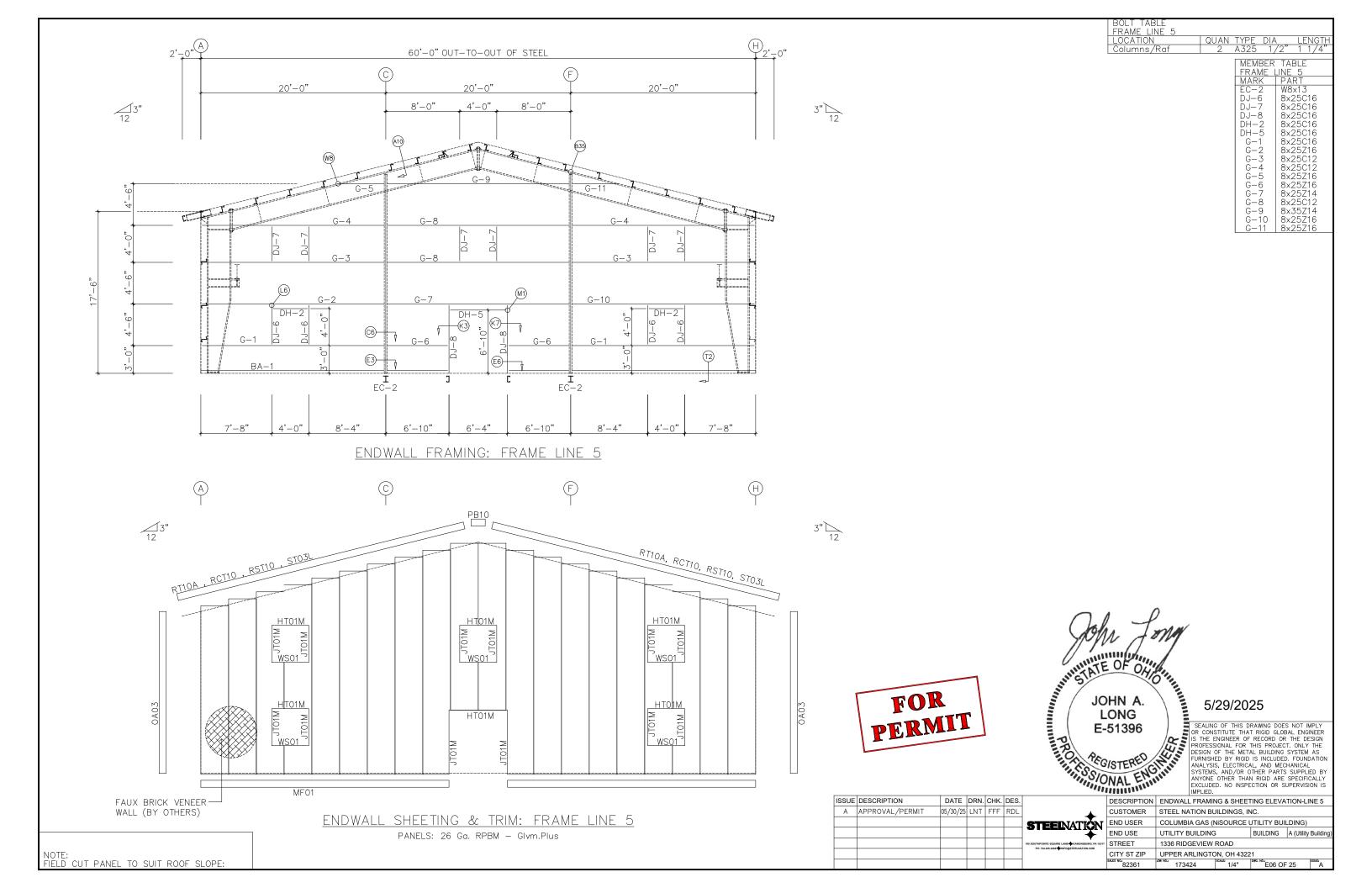
	DESCRIPTION	ENDWALL
	CUSTOMER	STEEL NAT
ATION	END USER	COLUMBIA
TI IOI	END USE	UTILITY BU
CANONSBURG, PA 15317	STREET	1336 RIDGE
gareeenineeou	CITY ST ZIP	UPPER ARI
	SALES NO.:	JOB NO.: 470.40

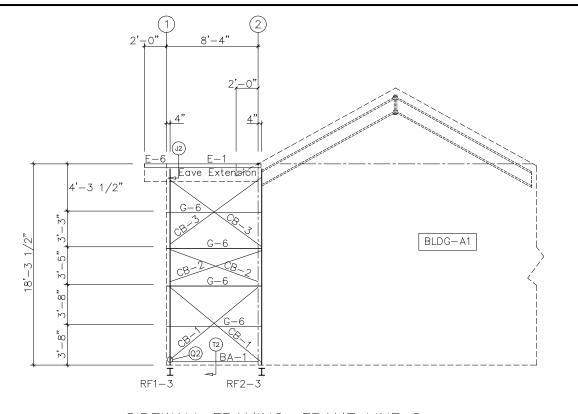
FIELD CUT PANEL TO SUIT ROOF SLOPE:

DH-2

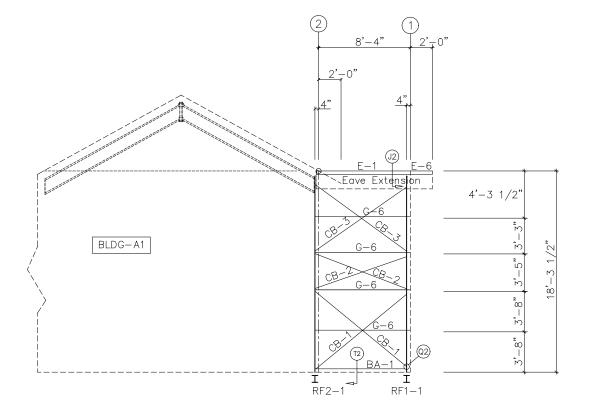
ENDWALL FRAMING: FRAME LINE 1

FRAMING & SHEETING ELEVATION- LINE 1 TION BUILDINGS, INC. JILDING BUILDING A (Utility Buildin RLINGTON, OH 43221 24 | SCALE 1/4" | DWG. NGJ. E05 OF 25 | SSUE A

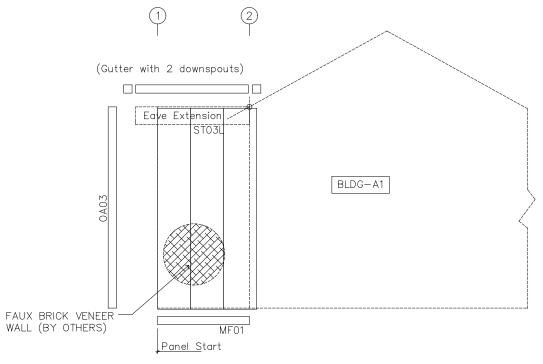




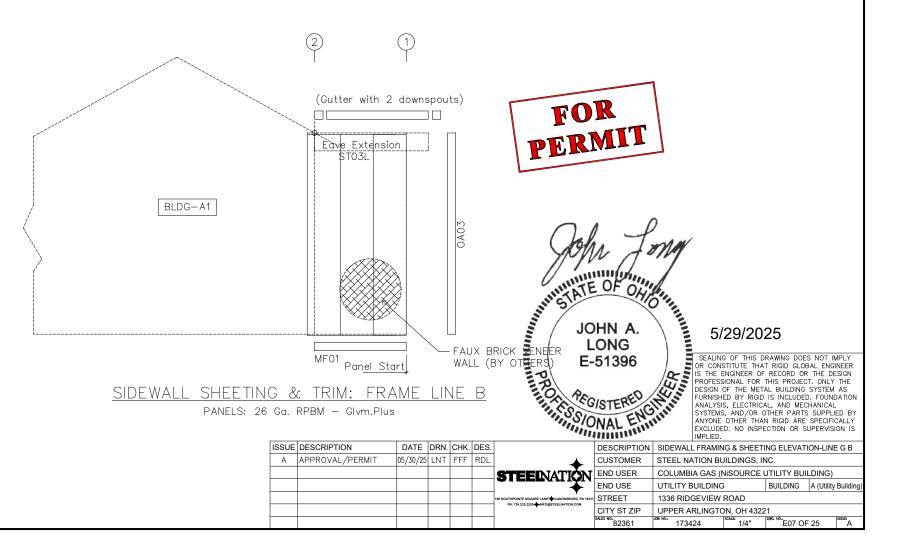
# SIDEWALL FRAMING: FRAME LINE G



SIDEWALL FRAMING: FRAME LINE B



## SIDEWALL SHEETING & TRIM: FRAME LINE G PANELS: 26 Ga. RPBM — Glvm.Plus



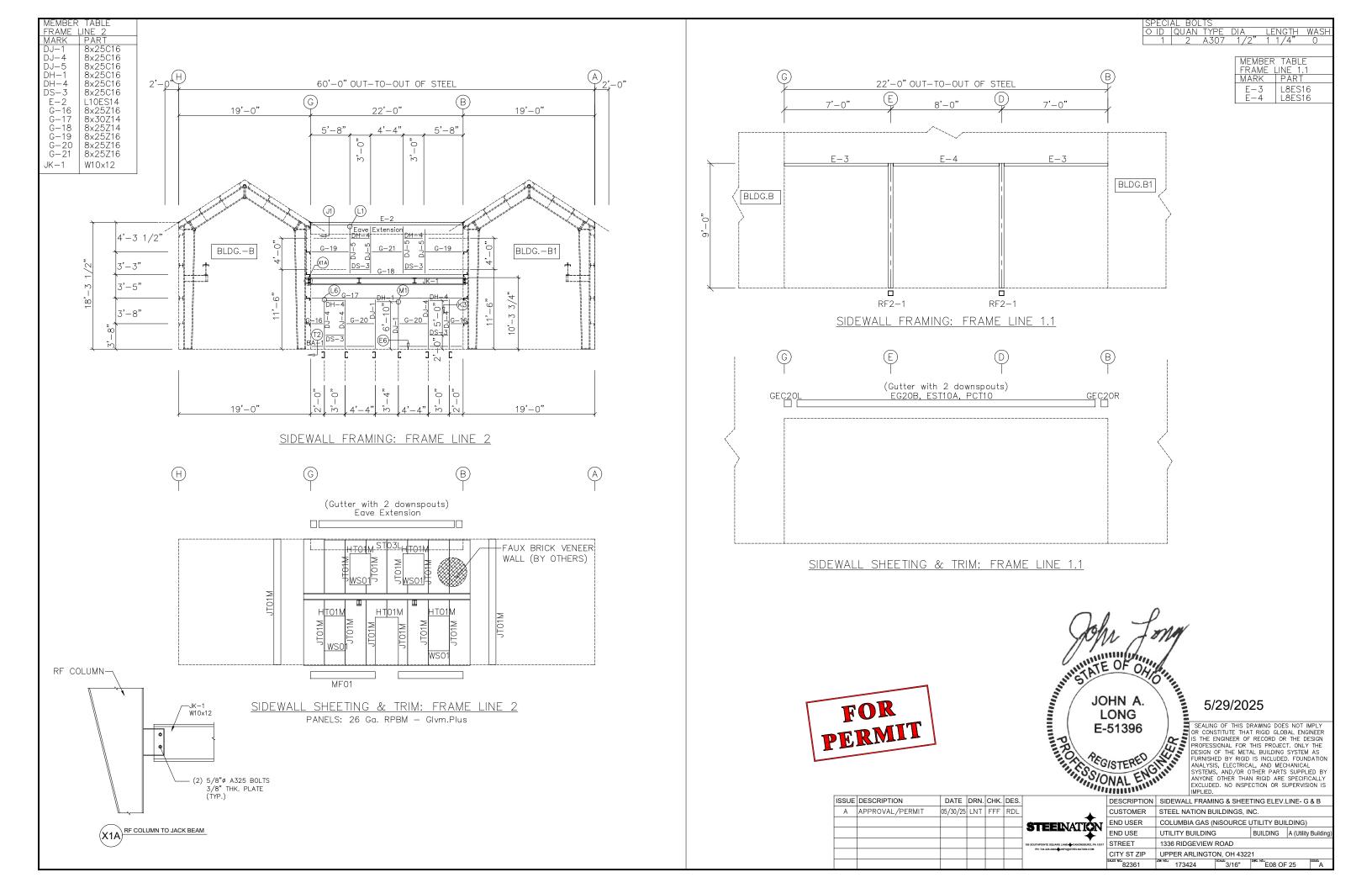
MEMBER TABLE FRAME LINE G MARK PART E-1 L10ES E-2 L10ES E-6 L10ES G-6 8x25; G-7 8x25; CB-1 CB02 CB-2 CB02 CB-2 CB02

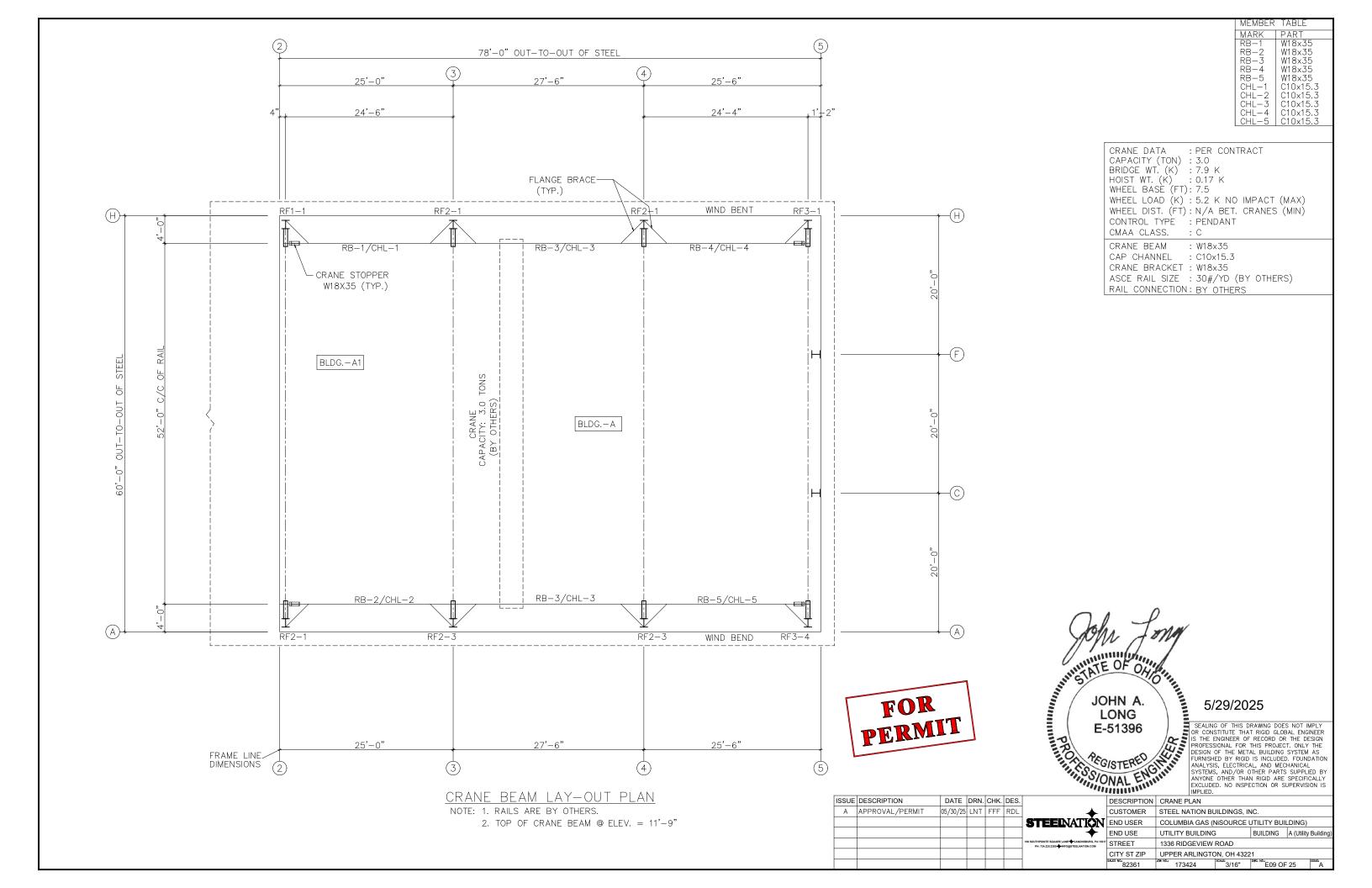
MEMBER TABLE FRAME LINE B MARK PART E-1 L10ES14 E-3 L10ES14 E-6 L10ES14 G-6 8×25Z16 G-7 8×25Z16 CB-1 CB0250 CB-2 CB0250 CB-3 CB0250

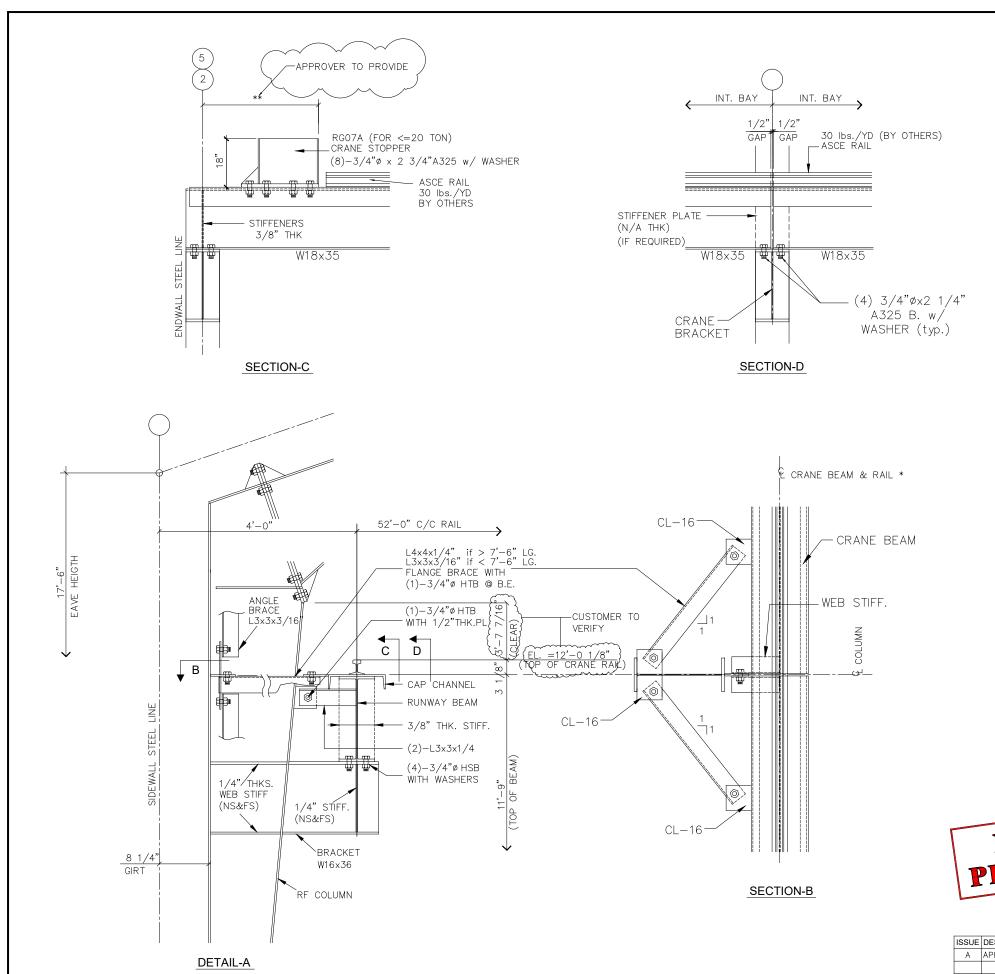
L10ES14 L10ES14 L10ES14 8x25Z16 8x25Z16 CB0250 CB0250

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.		
Α	APPROVAL/PERMIT	05/30/25	LNT	FFF	RDL	▲ [	
						STEEDNATION	
						<b>4</b>	
						100 SOUTHPOINTE SQUARE LANE CANONSBURG, PA 15317	
						PH: 724.225.2202 INFO@STEELNATION.COM	
						i F	Ś

	44100000	IMPLIED.				
	DESCRIPTION	SIDEWALL FRAMING & SHEETING ELEVATION-LINE G B				
	CUSTOMER	STEEL NATION BUILDINGS, INC.				
	END USER	COLUMBIA GAS (NISOURCE UTILITY BUILDING)				
	END USE	UTILITY BUILDING BUILDING A (Utility Bu				Building)
,	STREET	1336 RIDGEVIEW	ROAD			
	CITY ST ZIP	UPPER ARLINGTON, OH 43221				
	82361	173424	1/4"	E07 OF	25	A A





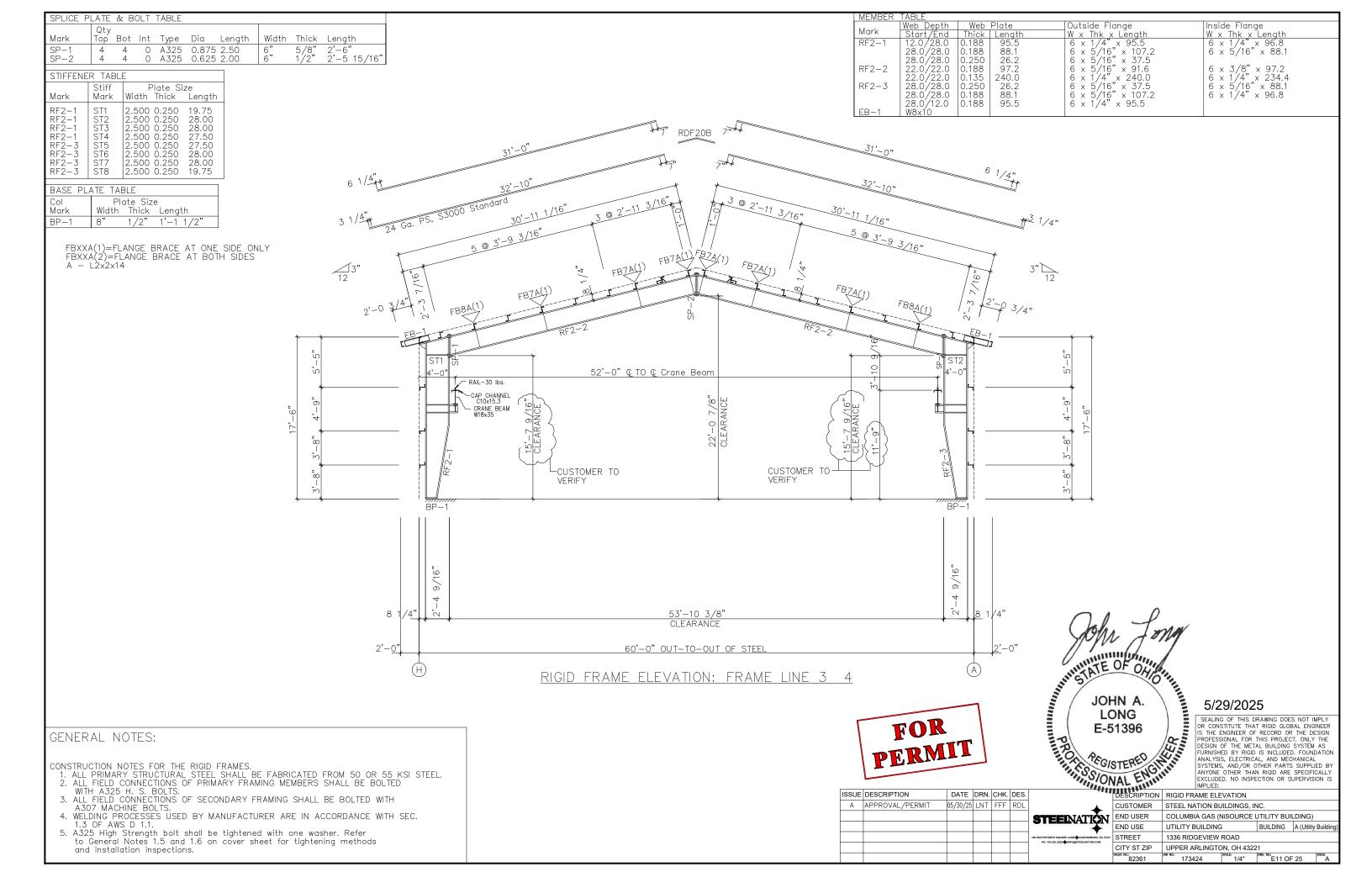




	ISSUE	DESCRIPTION	DATE				
I	Α	APPROVAL/PERMIT	05/30/25	LNT	FFF	RDL	
I							ST
I							'
I							100 SOUTHPO PH: 72
I							
ı							



	DESCRIPTION	CRANE DETAILS	CRANE DETAILS						
	CUSTOMER	STEEL NATION BUILDINGS, INC.							
ľ	END USER	COLUMBIA GAS (N	NISOURCE L	JTILITY BUIL	LDING)				
	END USE	UTILITY BUILDING	UTILITY BUILDING BUILDING A (Utility Bui						
17	STREET	1336 RIDGEVIEW	ROAD						
	CITY ST ZIP	UPPER ARLINGTON, OH 43221							
	82361	173424	3/16"	E10 OF	25	issue:			



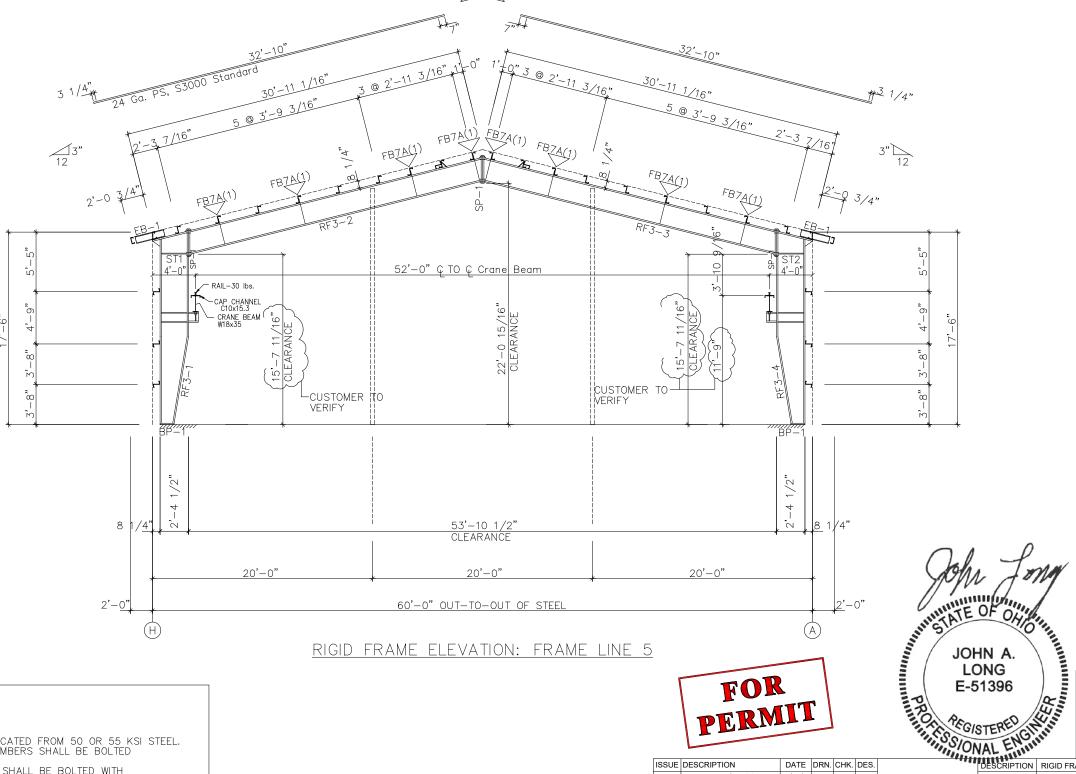
SPLICE F	PLATE	& B	OLT	TABLE					
Mark	Qty Top	Bot	Int	Туре	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	0.625	2.00	6"	1/2"	2'-5 15/16"
STIFFENE	R TAI	BLE							
	Stiff		Р	late Siz	'e				

STIFFENER TABLE								
Mark	Stiff Mark	Plate Size Width Thick Length						
RF3-1 RF3-1 RF3-1 RF3-2 RF3-2 RF3-3 RF3-4 RF3-4 RF3-4 RF3-4	ST1 ST2 ST3 ST4 ST5 ST6 ST7 ST8 ST9 ST10	2.500 0.250 19.75 2.500 0.250 28.00 2.500 0.250 28.00 2.500 0.250 27.50 3.500 0.375 17.01 3.500 0.375 27.50 2.500 0.250 27.50 2.500 0.250 28.00 2.500 0.250 28.00 2.500 0.250 19.75						

BASE PLATE TABLE							
Col Mark		ate Size Thick	e Length				
BP-1	8"	1/2"	1'-1 1/2"				

FBXXA(1)=FLANGE BRACE AT ONE SIDE ONLY FBXXA(2)=FLANGE BRACE AT BOTH SIDES A - L2x2x14

MEMBER	TABLE				
	Web Depth	Web	Plate	Outside Flange	Inside Flange
Mark	Start/Ėnd	Thick	Length	W x Thk x Lenath	W x Thk x Length
RF3-1	12.0/28.0	0.188	95.5	6 x 1/4" x 202.8 6 x 1/4" x 37.6 5 x 1/4" x 331.8	6 x 1/4" x 96.8
		0.188	114.4	6 x 1/4" x 37.6	6 x 1/4" x 88.2
RF3-2	22.0/22.0	0.135	240.0	5 x 1/4" x 331.8	6 x 1/4" x 88.2 5 x 1/4" x 331.8
	22.0/22.0	0.135	97.4		
RF3-3	22.0/22.0	0.135	97.4	5 x 1/4" x 331.8	5 x 1/4" x 331.8
		0.135	240.0		,
RF3-4	28.0/28.0	0.188	114.4	6 x 1/4" x 37.6 6 x 1/4" x 202.8	6 x 1/4" x 88.2
	28.0/12.0	0.188	95.5	6 x 1 <sup>′</sup> /4" x 202.8	6 x 1/4" x 88.2 6 x 1/4" x 96.8
TD 1	WQ√1′∩			/	,



GENERAL NOTES:

CONSTRUCTION NOTES FOR THE RIGID FRAMES.

1. ALL PRIMARY STRUCTURAL STEEL SHALL BE FABRICATED FROM 50 OR 55 KSI STEEL.

2. ALL FIELD CONNECTIONS OF PRIMARY FRAMING MEMBERS SHALL BE BOLTED WITH A325 H. S. BOLTS.

3. ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A307 MACHINE BOLTS.

4. WELDING PROCESSES USED BY MANUFACTURER ARE IN ACCORDANCE WITH SEC. 1.3 OF AWS D 1.1.

5. A325 High Strength bolt shall be tightened with one washer. Refer to General Notes 1.5 and 1.6 on cover sheet for tightening methods and installation inspections.

FOR

# 5/29/2025

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT RIGID GLOBAL ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY RIGID IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN RIGID ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

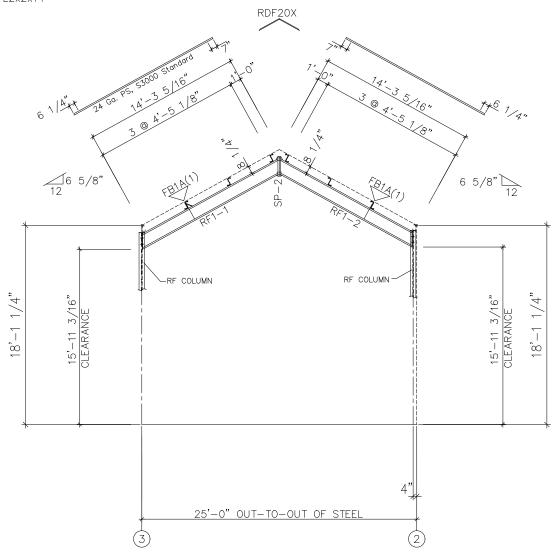
ISSUE DESCRIPTION DATE DRN. CHK. DES. 05/30/25 LNT FFF RDL A APPROVAL/PERMIT STEENAI

	DESCRIPTION	RIGID FRAME ELE	VATION		
_	CUSTOMER	STEEL NATION BU	JILDINGS, IN	IC.	
TION	END USER	COLUMBIA GAS (N	NISOURCE (	JTILITY BUIL	DING)
***	END USE	UTILITY BUILDING	i	BUILDING	A (Utility E
NONSBURG, PA 15317	STREET	1336 RIDGEVIEW	ROAD		
	CITY ST ZIP	UPPER ARLINGTO	N, OH 4322	1	
	82361	JOB NO.: 173424	1/4"	E12 OF	25

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Туре	Dia	Length	Width	Thick	Length
SP-1 SP-2	2 4	2 4		A325 A325			" 6"	" 1/2"	1'-1 11/16" 1'-10"

MEMBER	TABLE			
	Web Depth	Web Plate	Outside Flange	Inside Flange
Mark	Start/End	Thick Length	W x Thk x Length	W x Thk x Length
RF1-1	12.0/12.0	0.135   177.4	6 x 1/4" x 170.6	6 x 1/4" x 170.6
RF1-2	12.0/12.0	0.135   177.4	6 x 1'/4" x 170.6	6 x 1'/4" x 170.6

FBXXA(1)=FLANGE BRACE AT ONE SIDE ONLY FBXXA(2)=FLANGE BRACE AT BOTH SIDES A - L2x2x14



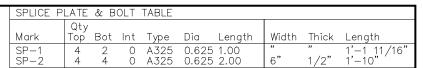
RIGID FRAME ELEVATION: FRAME LINE H A

### GENERAL NOTES:

- CONSTRUCTION NOTES FOR THE RIGID FRAMES.

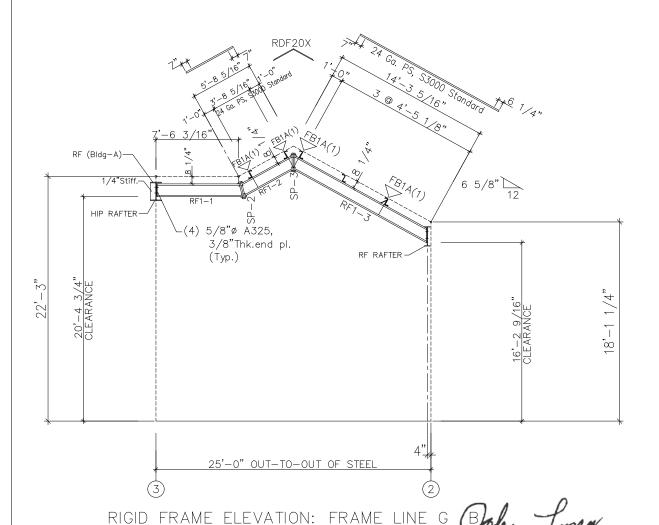
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- 3. ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A307 MACHINE BOLTS.
- 4. WELDING PROCESSES USED BY MANUFACTURER ARE IN ACCORDANCE WITH SEC. 1.3 OF AWS D 1.1.
- 5. A325 High Strength bolt shall be tightened with one washer. Refer to General Notes 1.5 and 1.6 on cover sheet for tightening methods and installation inspections.



FBXXA(1)=FLANGE BRACE AT ONE SIDE ONLY FBXXA(2)=FLANGE BRACE AT BOTH SIDES A - L2x2x14

MEMBER	TABLE			
	Web Depth	Web Plate	Outside Flange	Inside Flange
Mark	Start/Énd	Thick Length	W x Thk x Length	W x Thk x Length
RF1-1	12.0/12.0	0.135   177.4	6 x 1/4" x 170.6	6 x 1/4" x 170.6
RF1-2	12.0/12.0	0.135   177.4	6 x 1/4" x 170.6	6 x 1 <sup>′</sup> /4" x 170.6





JOHN A.
LONG
E-51396

SEALING OF THIL
OR CONSTITUTE THA
IS THE ENGINEER OF INPROFESSIONAL FOR THIS
DESIGN OF THE METAL BUILL
FURNISHED BY RIGID IS INCLUL
ANALYSIS, ELECTRICAL, AND MEC.
SYSTEMS, AND/OR OTHER PARTS S.
ANYONE OTHER THAN RIGID ARE SPEC.
EXCLUDED. NO INSPECTION OR SUPERVIS,
IMPLIED.

CUSTOMER STEEL NATION BUILDINGS, INC.
END USER COLUMBIA GAS (NISOURCE UTILITY BUILDING)
ND USE UTILITY BUILDING BUILDING A (Utility

"T] 1336 RIGID EVENT ROAD

"UPPER ARLINGTON, OH 43221

"MINING TAXABLE PROFESSION AND THE METAL BUILDING A (Utility

"T] UPPER ARLINGTON, OH 43221 ISSUE DESCRIPTION DATE DRN. CHK. DES. 05/30/25 LNT FFF RDL A APPROVAL/PERMIT

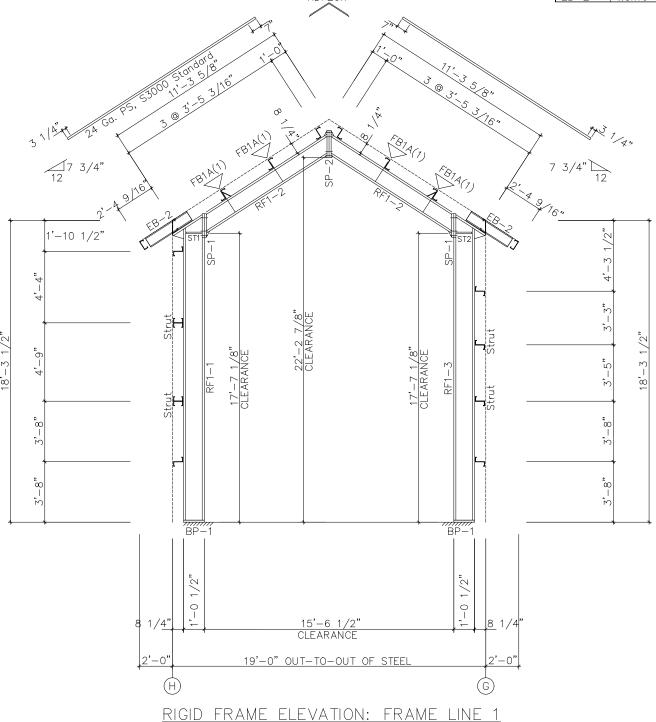
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top		Int	Туре	Dia	Length	Width	Thick	Length
SP-1 SP-2	2 4	4 4	0	A325 A325			6" 6"	1/2" 1/2"	1'-5 3/16" 1'-8 3/16"

STIFFENER TABLE								
Stiff Plate Size								
Mark	Mark	Width	Thick	Length				
RF1-1 RF1-3	ST1 ST2	2.410 2.410	0.313 0.313	11.50 11.50				

BASE PLA	ATE TAE	BLE	
Col Mark	Plo Width	ate Size Thick	
BP-1	8"	1/2"	1'-1 1/2"

FBXXA(1)=FLANGE BRACE AT ONE SIDE ONLY FBXXA(2)=FLANGE BRACE AT BOTH SIDES A - L2x2x14

MEMBER	TABLE				
	Web Depth	Web	Plate	Outside Flange	Inside Flange
Mark	Start/Ènd		Length	W x Thk x Length	W x Thk x Length
RF1-1	12.0/12.0	0.135	222.1	5 x 1/4" x 214.2	5 x 1/4" x 206.4
	·			6 x 1/4" x 24.2	·
RF1-2 RF1-3	10.0/10.0	0.135	115.9	5 x 1/4" x 109.3	5 x 1/4" x 109.3 5 x 1/4" x 206.4
RF1-3	10.0/10.0 12.0/12.0	0.135	222.1	6 x 1/4" x 24.2 5 x 1/4" x 214.2	5 x 1/4" x 206.4
	<b>'</b>			5 x 1/4" x 214.2	,
EB-2	W8x10			,	



## GENERAL NOTES:

- CONSTRUCTION NOTES FOR THE RIGID FRAMES.

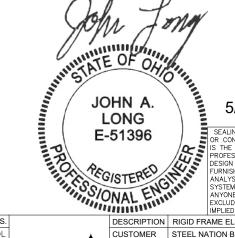
  1. ALL PRIMARY STRUCTURAL STEEL SHALL BE FABRICATED FROM 50 OR 55 KSI STEEL.

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	DES.	CHK.	DRN.	DATE	DESCRIPTION	SSUE
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# 5/29/2025



""	1880888888		IMPLIED.						
	DESCRIPTION	RIGID FR	AME ELE	VATION: FF	RAME LINE-	H G /1			
	CUSTOMER	STEEL NA	STEEL NATION BUILDINGS, INC.						
N	END USER	JTILITY BUIL	LDING)						
. 4	END USE	UTILITY B	UILDING	i	BUILDING	A (Utility Building)			
15317	STREET	1336 RIDGEVIEW ROAD							
	CITY ST ZIP	UPPER ARLINGTON, OH 43221							
	SALES NO.: Q2261	JOB NO.: 172/	24	SCALE: 2/Q"	DWG. NO.:	25 ISSUE: A			

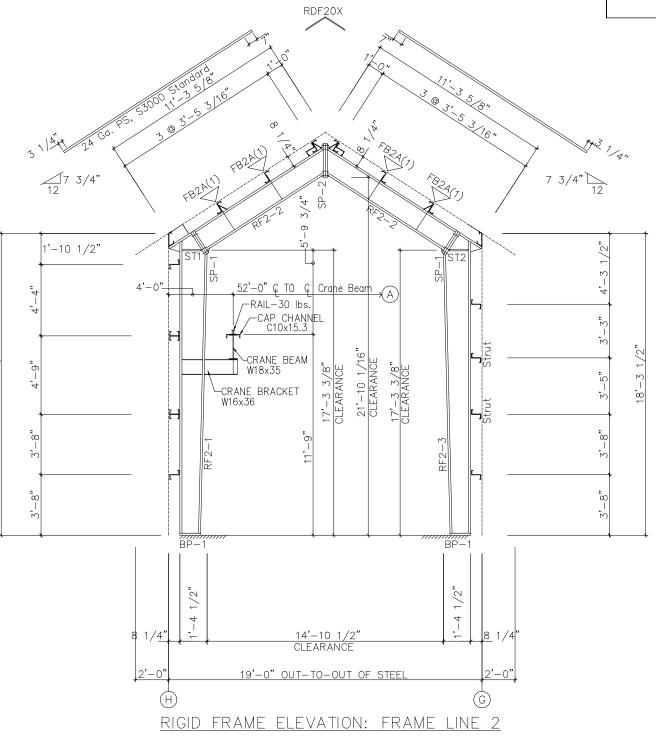
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Туре	Dia	Length	Width	Thick	Length
SP-1 SP-2	2 4	4 4	0	A325 A325			6" 6"	1/2" 1/2"	1'-6 7/8" 2'-0 15/16"

STIFFENER TABLE							
	Stiff	Plate Si	ze				
Mark	Mark	Width Thick	Length				
RF2-1 RF2-1 RF2-1 RF2-1 RF2-3 RF2-3	ST1 ST2 ST3 ST4 ST5 ST6	2.500 0.250 2.500 0.250 2.500 0.250 2.500 0.250 2.500 0.250 2.500 0.250	13.33 14.18 14.53 14.27 14.27 13.33				

BASE PLA	ATE TABLE
Col Mark	Plate Size Width Thick Length
BP-1	8" 1/2" 1'-1 1/2"

 $\label{eq:fbxxa} \begin{array}{ll} \text{FBXXA(1)=FLANGE BRACE AT ONE SIDE ONLY} \\ \text{FBXXA(2)=FLANGE BRACE AT BOTH SIDES} \end{array}$ 

MEMBER	TABLE				
	Web Depth				Inside Flange
Mark	Start/Énd				W x Thk x Length
RF2-1	12.0/16.0	0.188	218.3	6 x 1/4" x 214.2	6 x 1/4" x 203.1
				6 x 1/4" x 17.3	·
RF2-2 RF2-3	14.0/14.0 16.0/12.0	0.135	116.6	5 x 1/4" x 116.6	5 x 1/4" x 107.4
RF2-3	16.0/12.0	0.188	218.3	6 x 1/4" x 17.3	6 x 1/4" x 203.1
	,			6 x 1'/4" x 214.2	,



## GENERAL NOTES:

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  A307 MACHINE BOLTS.
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  5. A325 High Strength bolt shall be tightened with one washer. Refer to General Notes 1.5 and 1.6 on cover sheet for tightening methods and installation inspections.



	DES.	CHK.	DRN.	DATE	DESCRIPTION	ISSUE
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# 5/29/2025



Ø,	1900000000		IMPLIED.						
	DESCRIPTION	RIGID FRA	AME ELE	VATION					
	CUSTOMER	STEEL NA	STEEL NATION BUILDINGS, INC.						
r	END USER	COLUMBI	COLUMBIA GAS (NISOURCE UTILITY BUILDING)						
•	END USE	UTILITY B	UILDING	i	BUILDING	A (Utility	Building		
117	STREET	1336 RIDO	GEVIEW I	ROAD					
	CITY ST ZIP			N, OH 4322					
	SALES NO.:	JOB NO.: 470.4	24	SCALE:	DWG. NO.:	- 05	ISSUE:		

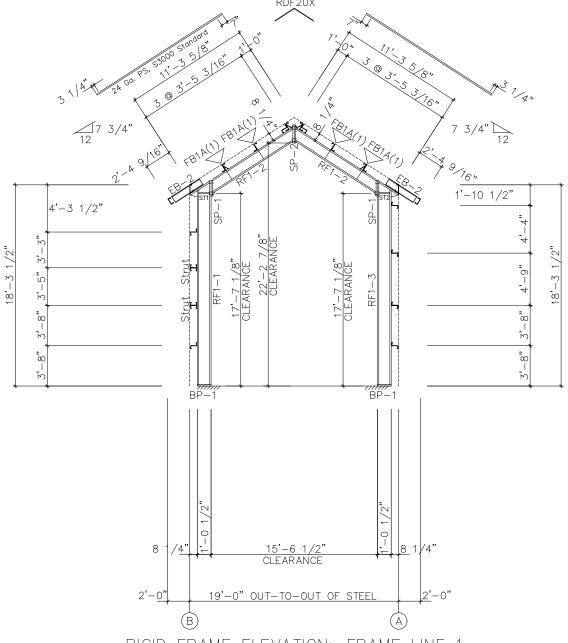
SPLICE P	SPLICE PLATE & BOLT TABLE								
Mark	Qty Top	Bot	Int	Туре	Dia	Length	Width	Thick	Length
SP-1 SP-2	2 4	4 4	0	A325 A325	0.625 0.625		6" 6"	1/2" 1/2"	1'-5 3/16" 1'-8 3/16"

STIFFENER TABLE								
Mark	Stiff Mark	Plate Size Width Thick						
RF1-1 RF1-3	ST1 ST2	2.410 0.313 2.410 0.313	11.50 11.50					

BASE PLATE TABLE							
Col	Plo	ate Size	Э				
Mark	Width	Thick	Length				
BP-1	8"	1/2"	1'-1 1/2"				

FBXXA(1)=FLANGE BRACE AT ONE SIDE ONLY FBXXA(2)=FLANGE BRACE AT BOTH SIDES A - L2x2x14

I MEMBER	TABLE				
	Web Depth	Web	Plate	Outside Flange	Inside Flange
Mark	Start/Énd		Length		W x Thk x Length
RF1-1	12.0/12.0	0.135	222.1	5 x 1/4" x 214.2	5 x 1/4" x 206.4
	· .			6 x 1/4" x 24.2	·
RF1-2	10.0/10.0 12.0/12.0	0.135	115.9	5 x 1/4" x 109.3	5 x 1/4" x 109.3 5 x 1/4" x 206.4
RF1-3	12.0/12.0	0.135	222.1	6 × 1/4" × 24.2	5 x 1/4" x 206.4
				5 x 1'/4" x 214.2	·
EB-2	W8x10			,	



RIGID FRAME ELEVATION: FRAME LINE 1

## GENERAL NOTES:

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  5. A325 High Strength bolt shall be tightened with one washer. Refer to General Notes 1.5 and 1.6 on cover sheet for tightening methods and installation inspections.



	DEC	CHK	DDN	DATE	DESCRIPTION	ICCLIE
	DES.	CHK.	DKIN.	DATE	DESCRIPTION	ISSUE
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# 5/29/2025



ı,	1900000000	IMPLIED.					
	DESCRIPTION	RIGID FRAME ELEVATION : FRAME LINE-B A / 1					
CUSTOMER STEEL NATION BUILDINGS, INC.  FIND USER COLUMBIA GAS (NISOURCE UTILITY BUILDING)							
•	END USE	UTILITY BUILDING	i	BUILDING	A (Utility	Building)	
317	STREET	1336 RIDGEVIEW ROAD  UPPER ARLINGTON, OH 43221					
	CITY ST ZIP						
	82361	173424	1/4"	E16 OF	25	A A	

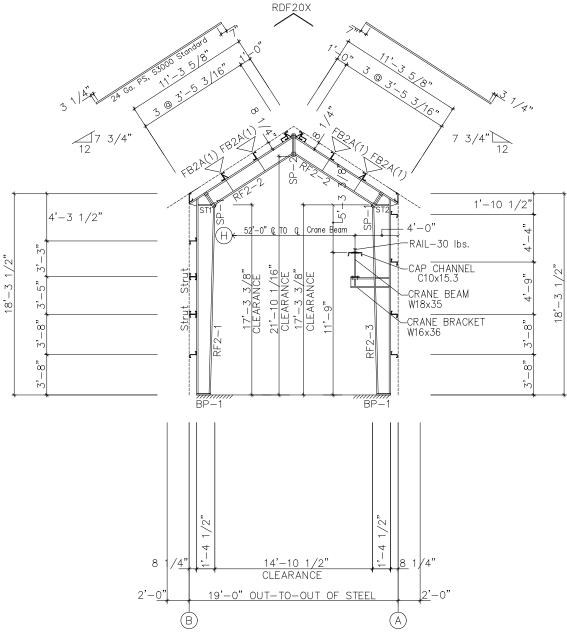
SPLICE P	LATE	& B	OLT	TABLE					
Mark	Qty Top	Bot	Int	Туре	Dia	Length	Width	Thick	Length
SP-1 SP-2	2 4	4 4	0	A325 A325			6" 6"	1/2" 1/2"	1'-6 7/8" 2'-0 15/16"

STIFFENE	R TABL	E	
	Stiff	Plate Si	
Mark	Mark	Width Thick	Length
RF2-1 RF2-1 RF2-3 RF2-3 RF2-3 RF2-3	ST1 ST2 ST3 ST4 ST5 ST6	2.500 0.250 2.500 0.250 2.500 0.250 2.500 0.250 2.500 0.250 2.500 0.250	13.33 14.27 14.27 14.53 14.18 13.33

BASE PLA	ATE TABLE
Col Mark	Plate Size Width Thick Length
BP-1	8" 1/2" 1'-1 1/2"

 $\label{eq:fbxxa} \begin{array}{ll} \text{FBXXA(1)=FLANGE BRACE AT ONE SIDE ONLY} \\ \text{FBXXA(2)=FLANGE BRACE AT BOTH SIDES} \end{array}$ 

MEMBER	TABLE				
	Web Depth	Web	Plate	Outside Flange	Inside Flange
Mark	Start/Énd				W x Thk x Length
RF2-1	12.0/16.0	0.188	218.3	6 x 1/4" x 214.2	6 x 1/4" x 203.1
	,			6 x 1/4" x 17.3	,
RF2-2 RF2-3	14.0/14.0	0.135	116.6	l 5 × 1/4" × 1166	5 x 1/4" x 107.4
RF2-3	16.0/12.0	0.188	218.3	6 x 1/4" x 17.3	6 x 1/4" x 203.1
	,			6 x 1/4" x 214.2	,
FB-2	W8×10			,	



RIGID FRAME ELEVATION: FRAME LINE 2

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ISSUE	DESCRIPTION	DATE		-		
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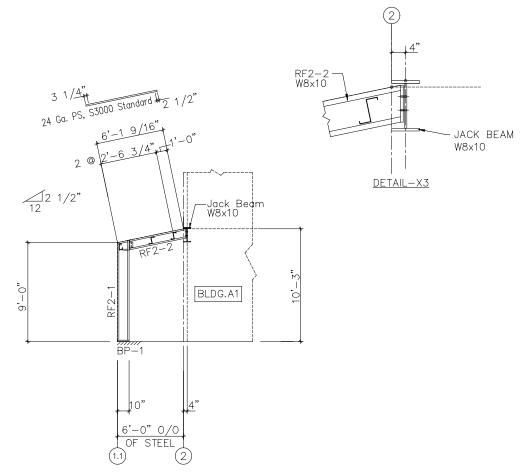


8	18000000000	IMPLIED.					
	DESCRIPTION	RIGID FRAME ELEVATION : FRAME LINE- B A / 2					
	CUSTOMER	STEEL NATION BUILDINGS, INC.					
r	END USER	COLUMBIA GAS (NISOURCE UTILITY BUILDING)					
l	END USE	UTILITY BUILDING	BUILDING	A (Utility	Building)		
17	STREET	1336 RIDGEVIEW	1336 RIDGEVIEW ROAD				
	CITY ST ZIP		UPPER ARLINGTON, OH 43221				
	82361	173424	1/4"	E17 OF	25	A A	

STIFFENER TABLE					
	Stiff Plate Size				
Mark	Mark	Width Thick	Length		
RF2-1	ST1	4.880 0.313	9.152		

BASE PLA	ATE TAE	BLE		
Col Mark		ate Size	e Length	
MULK				
BP-1	1'-2"	1/2"	1'-5"	

MARK MEMBER LENG	TH
RF2-1 HSS10x10x316 9'-0 RF2-2 W8x10 5'-2	" 13/16"



RIGID FRAME ELEVATION: FRAME LINE D E

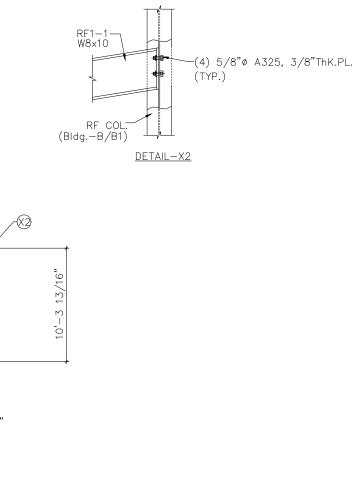
# Top Bot Int Type Dia Length SP-1 0 A325 0.625 1.00 -RF1-1 W8×10 RF COL (Bldg.-B/B1) DETAIL-X1 <u>12</u> 1/2" RF COL.(Bldg.B/B1)-RIGID FRAME ELEVATION: FRAME LINE B G

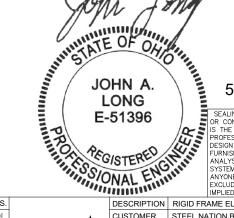
PLATE & BOLT TABLE

Width Thick Length

((1)

WEWREK 2	IZE TABLE	
MARK	MEMBER	LENGTH
RF1-1	W8x10	6'-1 9/16"
		•





5/29/2025

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ISSUE DESCRIPTION DATE DRN. CHK. DES. A APPROVAL/PERMIT 05/30/25 LNT FFF RDL

6'-0" 0/0

OF STEEL

10001555		IMPLIED.				
ESCRIPTION	RIGID FR	RIGID FRAME ELEVATION : FRAME LINE- D E / 1.1-2				
USTOMER	STEEL NA	STEEL NATION BUILDINGS, INC.				
ND USER	COLUMBIA GAS (NISOURCE UTILITY BUILDING)					
ND USE	UTILITY BUILDING			BUILDING	A (Utility	Building
TREET	1336 RIDO	1336 RIDGEVIEW ROAD				
ITY ST ZIP	UPPER ARLINGTON, OH 43221					
82361	1734	24	1/4"	E18 OF	25	A A

## GENERAL NOTES:

CONSTRUCTION NOTES FOR THE RIGID FRAMES.

1. ALL PRIMARY STRUCTURAL STEEL SHALL BE FABRICATED FROM 50 OR 55 KSI STEEL.

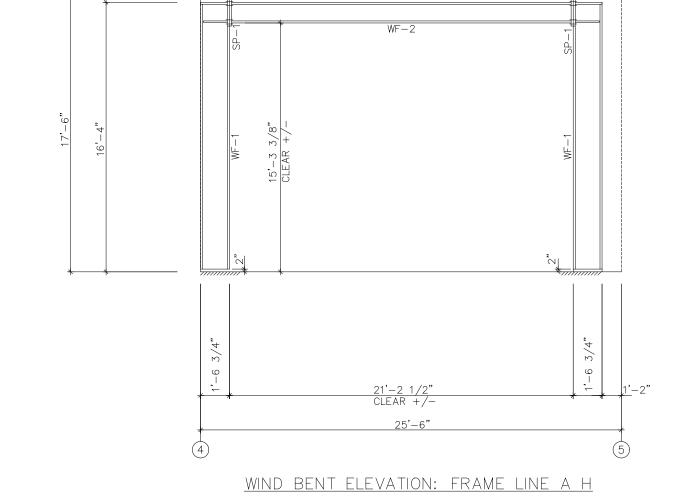
2. ALL FIELD CONNECTIONS OF PRIMARY FRAMING MEMBERS SHALL BE BOLTED WITH A325 H. S. BOLTS.

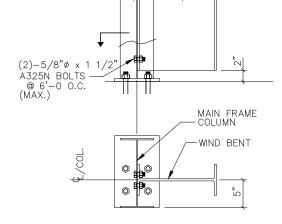
3. ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A307 MACHINE BOLTS.

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 A325 High Strength bolt shall be tightened with one washer. Refer to General Notes 1.5 and 1.6 on cover sheet for tightening methods and installation inspections.

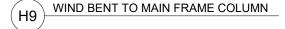
SPLICE B	OLTS				
Splice Mark	Quar			Bol	t
Mark	Top/	Bot	Туре	Dia	Length
SP- 1	4	4	A325	0.625	2.00

MEMBER S	IZE TABLE	
MARK	MEMBER	LENGTH
WF-2 WF-1	W12652 W18662	21'-2 1/4" 16'-2"





£/col.



## GENERAL NOTES:

- CONSTRUCTION NOTES FOR THE RIGID FRAMES.

  1. ALL PRIMARY STRUCTURAL STEEL SHALL BE FABRICATED FROM 50 OR 55 KSI STEEL.

  2. ALL FIELD CONNECTIONS OF PRIMARY FRAMING MEMBERS SHALL BE BOLTED WITH A325 H. S. BOLTS.

  3. ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A307 MACHINE BOLTS.

  4. WELDING PROCESSES USED BY MANUFACTURER ARE IN ACCORDANCE WITH SEC.

  1.3 OF AWS D 1.1.

  5. A325 High Strength bolt shall be tightened with one washer. Refer to General Notes 1.5 and 1.6 on cover sheet for tightening methods and installation inspections. and installation inspections.

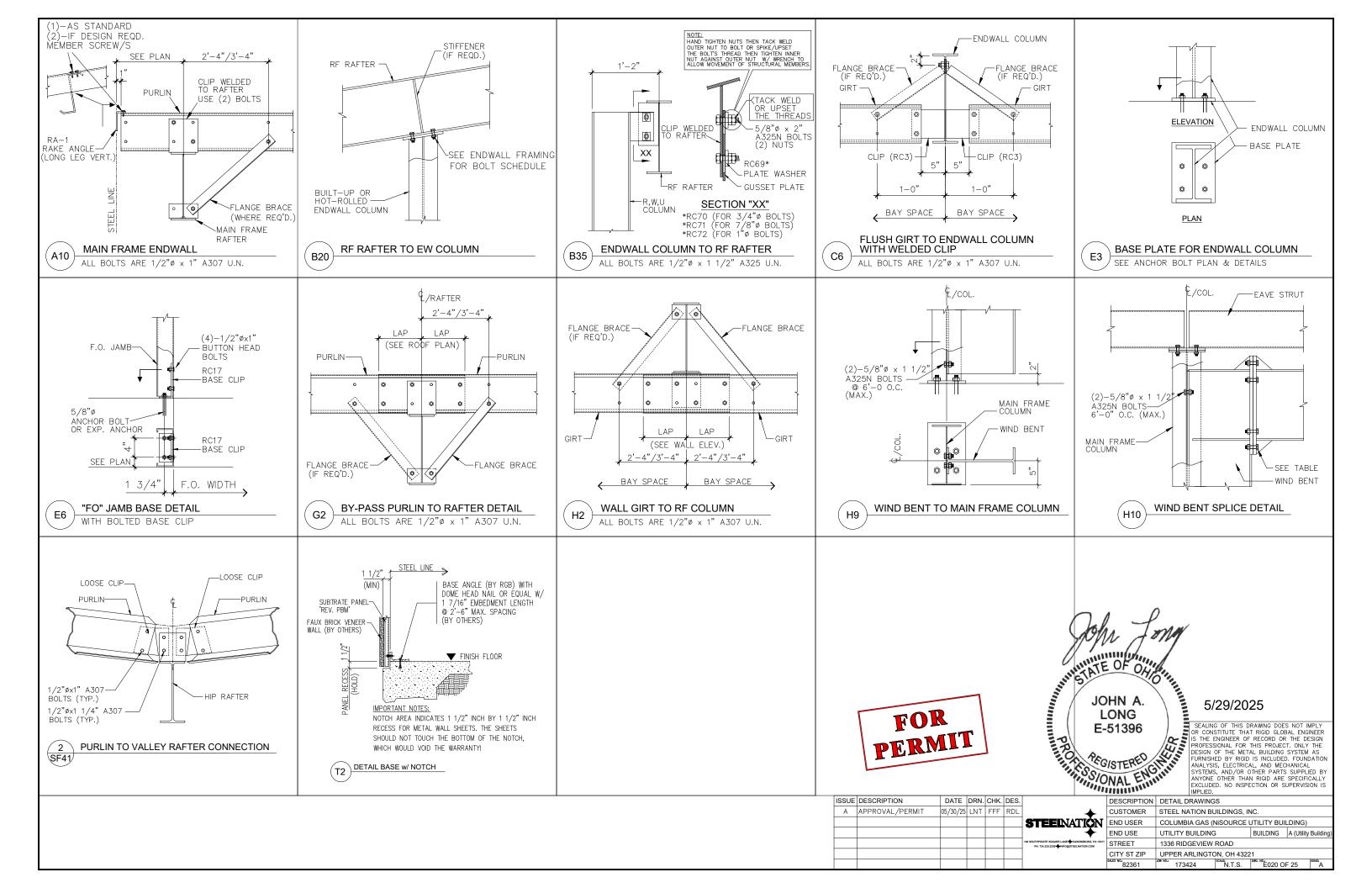


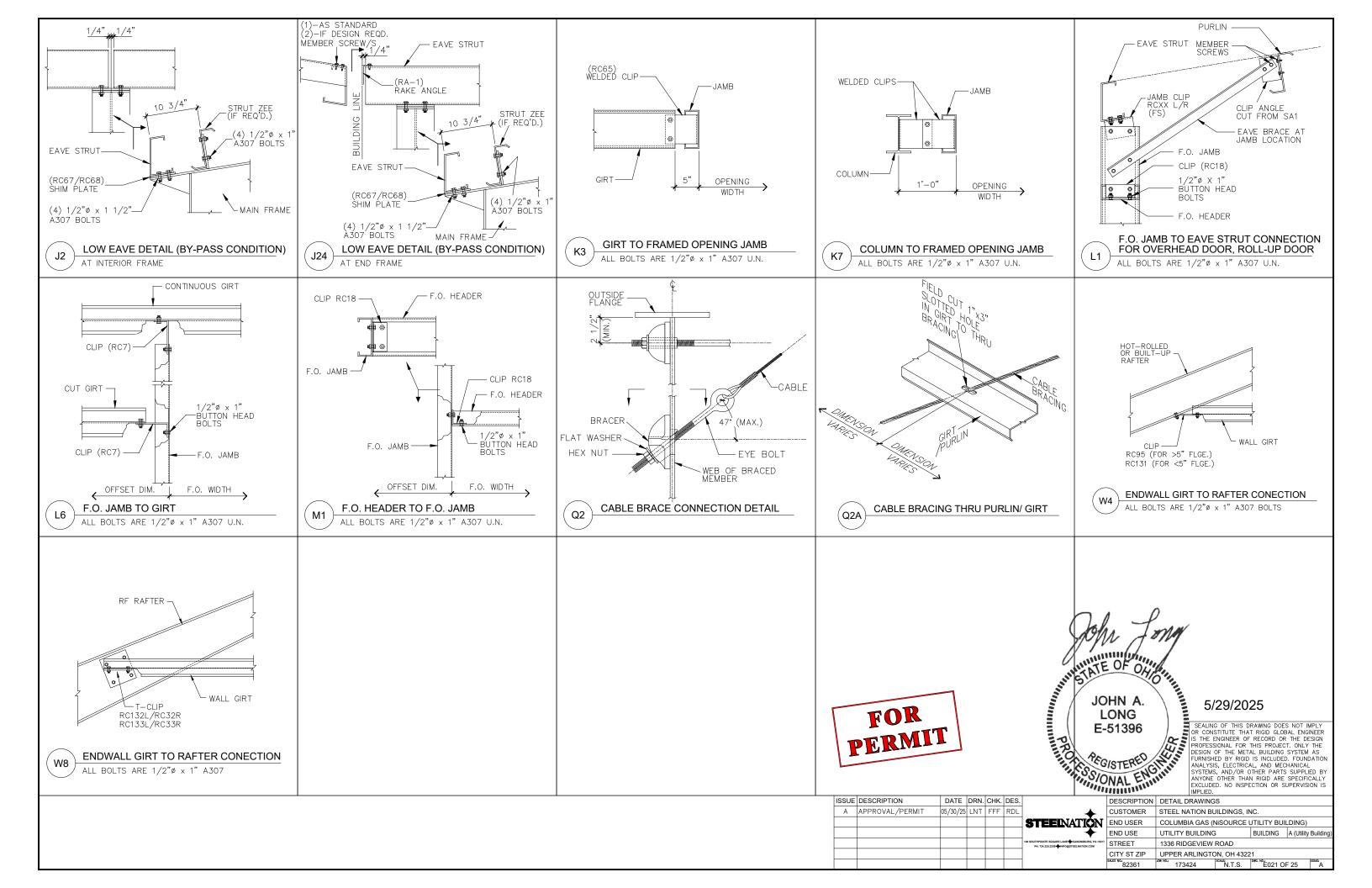
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
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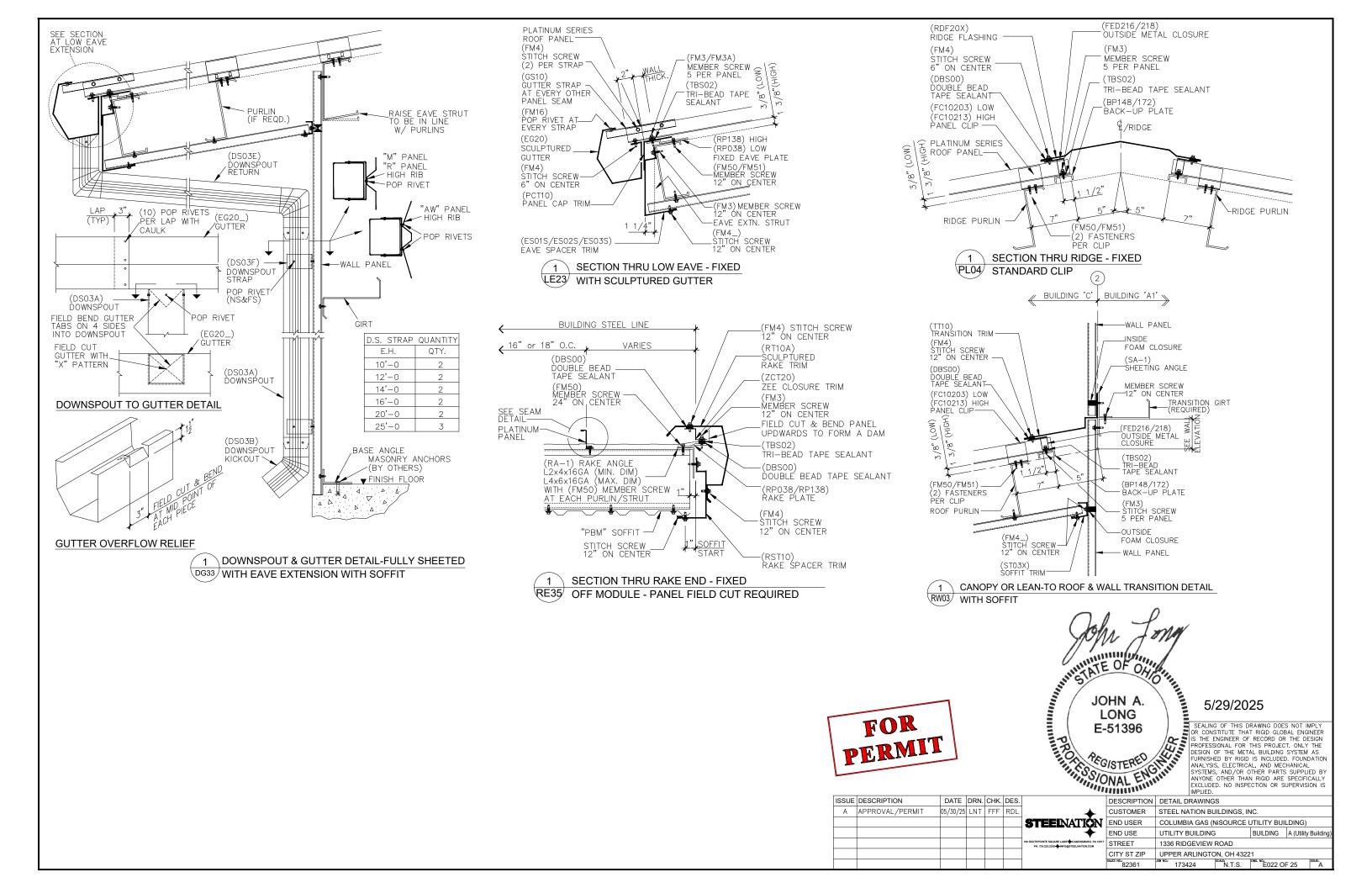


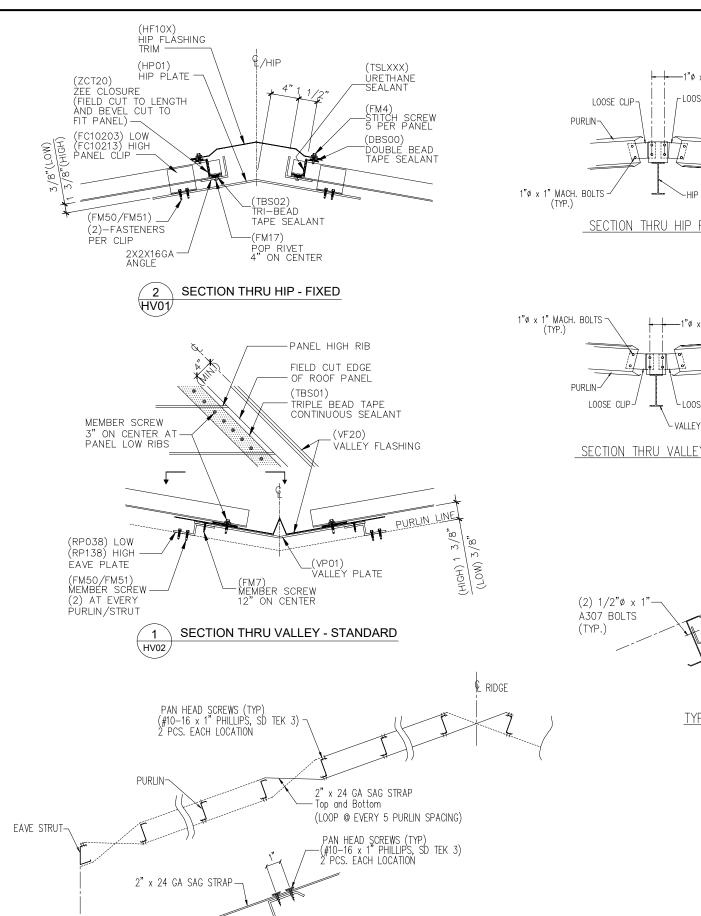


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ESCRIPTION	WIND FRA	WIND FRAME ELEVATION				
USTOMER	STEEL NA	STEEL NATION BUILDINGS, INC.				
ND USER	COLUMBIA GAS (NISOURCE UTILITY BUILDING)					
ND USE	UTILITY B	UILDING	i	BUILDING	A (Utility	Building)
TREET	1336 RIDO	GEVIEW I	ROAD			
ITY ST ZIP	UPPER ARLINGTON, OH 43221					
ES NO.:	JOB NO.: 4 7 0 4		SCALE:	DWG. NO.:	05	ISSUE:





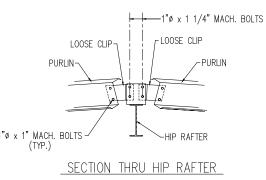


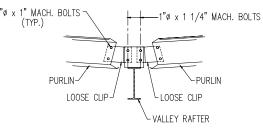


-PURLIN / EAVE STRUT

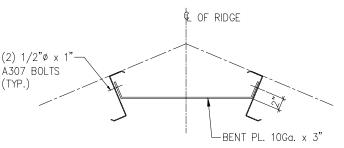
TYPICAL SAG STRAP CONNECTION DETAIL

(BRACED AT TOP & BOTTOM OF PURLINS / SIDE BY SIDE)

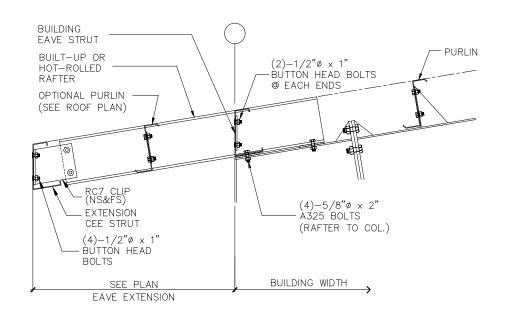




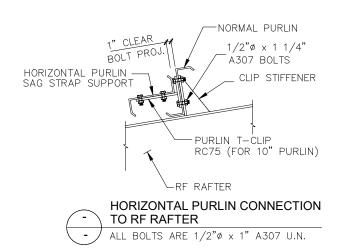
SECTION THRU VALLEY RAFTER



TYPICAL RIDGE TIE DETAIL



BUILT-UP/HOT-ROLLED EAVE EXTENSION DETAIL ALL BOLTS ARE 1/2"ø x 1" A307 U.N.





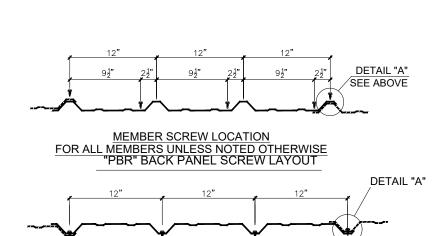


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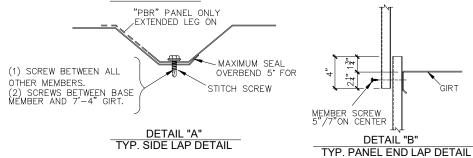
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DATE	DRN.	CHK.	DES.	
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				STEENATION
				<b>*</b>
				100 SOUTHPOINTE SQUARE LANE CANONSBURG, PA 15317 PH: 724.225.2202 INFO@STEELNATION.COM

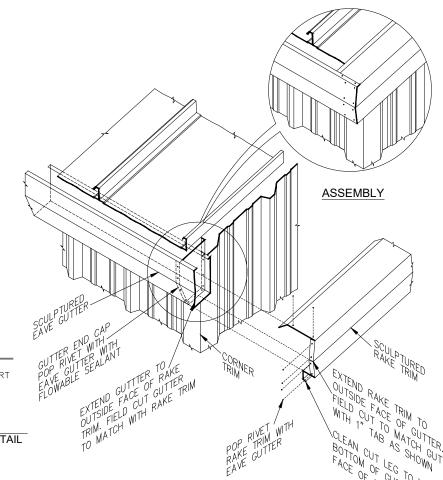
1800000000	IMI	PLIED.				
DESCRIPTION	DETAIL DRAWINGS					
CUSTOMER	STEEL NATION BUILDINGS, INC.					
END USER	COLUMBIA GAS (NISOURCE UTILITY BUILDING)					
END USE	UTILITY BUILDING			BUILDING	A (Utility	Building)
STREET	1336 RIDGEVIEW ROAD					
CITY ST ZIP	UPPER ARLINGTON, OH 43221					
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# MEMBER SCREW LOCATION ALL MEMBERS



REVERSE "PBR" WALL PANEL SCREW LAYOUT



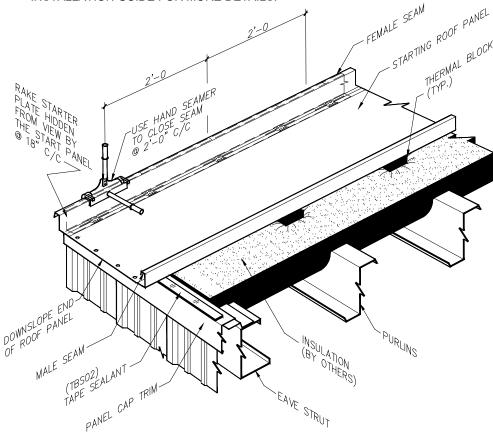
SCULPTURED GUTTER & RAKE TRIM JOINT DETAIL

WITH "PLATINUM" ROOF PANEL

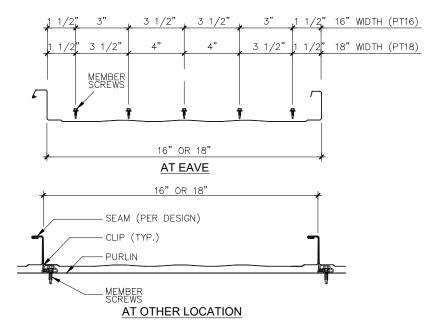
NOTE:

SEAM STARTING ROOF PANEL WITH MANUAL SEAMING TOOL AT RAKE STARTER PLATE (2'-0" C/C).

\* REFER TO SECTION 9.3.4 OF THE PLATINUM ROOF SYSTEM INSTALLATION GUIDE FOR MORE DETAILS.

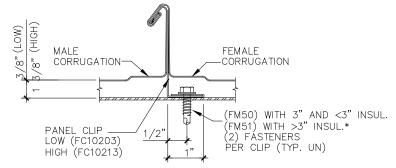


1 SEAMING DETAIL (HC) @ RAKE START WITH "PLATINUM" STARTING ROOF PANEL



PLATINUM PANEL FASTENER LOCATION

1 PT01



QUAD-LOK SEAM WITH FIXED CLIP
SL01 \* SUPPLY SPECIAL LENGHT FASTENER FOR >6" THICK INSULATION



HILLIAM DE OF OHOLING	
JOHN A. LONG E-51396	
JOHN A. LONG E-51396  ROSTERED  ROST	PROF DESIG FURN ANAL SYSTI ANYO EXCLI

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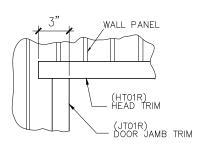
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STEEL						
100 SOUTHPOINTE SQUARE LANE PH: 724.225.2202						
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	DESCRIPTION
•	CUSTOMER
NATION	END USER
*	END USE
ANE CANONSBURG, PA 15317	STREET
	CITY ST ZIP
	SALES NO.:

18606665	IMPLIED.				
DESCRIPTION	DETAIL DRAWINGS				
CUSTOMER	STEEL NATION BUILDINGS, INC.				
END USER	COLUMBIA GAS (NISOURCE UTILITY BUILDING)				
END USE	UTILITY BUILDING	BUILDING	A (Utility	Building)	
STREET	1336 RIDGEVIEW ROAD				
CITY ST ZIP	UPPER ARLINGTON, OH 43221				
82361	173424	N.T.S.	E024 OF	- 25	A A

#### NOTES:

- 1. FOR 3070, 4070, 6070 WALK DOORS ONLY
- 2. ALL DOORS ARE FIELD LOCATED UNLESS SHOWN IN A.B. PLAN 3. ★ DIMENSION VARIES. SEE WALL ELEVATION IF REQUIRED.



DETAIL "E"
HEAD/JAMB TRIMS CORNER DETAIL



- Place head section and jambs on flat surface (floor) with door side up. Install bolts and nuts connecting head to jambs. Be sure that head is tight to jambs so that the proper door opening is obtained.
- 2. Install door leaf in frame, check for 1/8" clearance at head and 3/32" clearance at stricker jamb.
- 3. Tilt up the entire assembly and anchor <u>hinge</u> jamb to floor. Plumb hinge jamb and assembly. Field cut girts if required.
- Anchor head and striker jamb to building structure, floor and entire frame to panel skins (field cut). Install optional threshold anchor if desired. Install jamb extensions (if req'd).
- 5. Install lockset. Install (optional) weatherstrip, head member first. Adjust so that vinyl <u>just</u> contacts door when in the closed position. <u>Do not force</u> vinyl against door as this will interfere with the latching and will not improve the weather seal.
- 6. Refer also to Door Manufacturer Installation Manual for more details.

"R" OR "PBR" WALL PANEL—	F.O. HEADER	
		2,
(HT01R) HEAD TRIM	DOOR HEADER	7 HT.
DOOR LEAF	DOOK HEADER	7'-0"

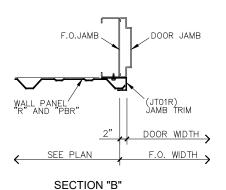
 DOOR TRIM TABLE

 SIZE
 HT01R
 JT01R

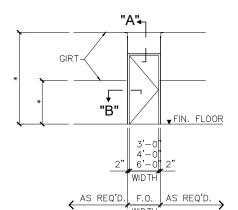
 3070
 3'-6"
 7'-5"

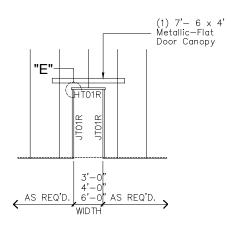
 4070
 4'-6"
 7'-5"

 6070
 6'-6"
 7'-5"

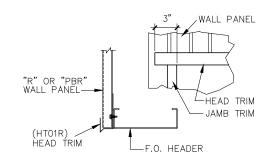


SECTION "A"

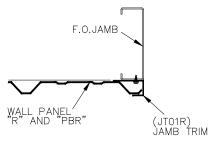




TYPICAL WALK DOOR DETAIL WITH FRAMED OPENING: REQUIRED QUANTITY = 0



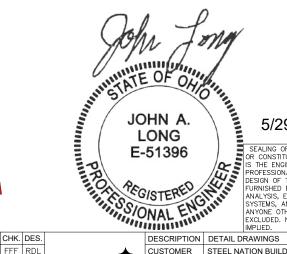




5 F.O. JAMB TRIM DETAIL



	DES.	CHK.	DRN.	DATE	DESCRIPTION	ISSUE
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*	END (
OINTE SQUARE LANE CANONSBURG, PA 15317 724 225 2202 INFO@STEELNATION.COM	STRE
,	CITY

18888800	IMPLIED.				
DESCRIPTION	DETAIL DRAWINGS				
CUSTOMER	STEEL NATION BUILDINGS, INC.				
END USER	COLUMBIA GAS (NISOURCE UTILITY BUILDING)				
END USE	UTILITY BUILDING	BUILDING	A (Utility	Building)	
STREET	1336 RIDGEVIEW ROAD				
CITY ST ZIP	UPPER ARLINGTON, OH 43221				
82361	173424	N.T.S.	E025 OF	- 25	A

# **GENERAL NOTES**

Houston

1.1 Fabrication shall be in accordance with S.N. standard practices in compliance with the applicable sections, relating to design requirements and allowable stresses of the latest edition of the "AWS Structural Welding Code D1.1 and D1.3". S.N. manufacturing procedures are certified by:

Certification numbers Reference

1.2	MATERIALS	<b>ASTM DESIGNATION</b>	MIN. YIELD STRENGTH
	Hot Rolled Steel Shapes (W, S, C & L)	A572/A529	Fy = 50 KSI
	Hot Rolled Steel Shapes (W)	A992	Fy = 50 KSI
	Round Structural Tubing (HSS)	A500	Fy = 42 KSI
	Square/Rect. Structural Tubing (HSS)	A500	Fy = 46 KSI
	Structural Steel Web Plate	A572/A1011	Fy = 55 KSI
	Structural Steel Flange Plates/Bars	A529/A572	Fy = 55 KSI
	Cold Formed Light Gage	A653/A1011	Fy = 55 KSI
	Roof and Wall Sheets	A792/A653	Fy = 50, 80 KSI
	Cable Brace	A475	Extra High Strength
	Rod Brace	A36	Fy = 36 KSI

S.N.

#456

MIN. TENSILE STRENGTH

Machine Bolts & Nuts Fu = 60 KSI High Strength Bolts (1"Ø and less) F3125/Gr. A325-TYPE 1 Fu = 120 KSI High Strength Bolts (>1"Ø to 1 1/2"Ø) F3125/Gr. A325-TYPE 1 Fu = 105 KSI A36/A307/F1554 Gr.36 Fu = 58-80 KSI Anchor Bolts (if supplied) 1.3 PRIMER

Shop primer paint is a rust inhibitive primer which meets the end performance of Federal Specification SSPC No. 15 and is S.N. Red or Gray Oxide color. This paint is not intended for long term exposure to the elements. S.N. is not responsible for any deterioration of the shop primer paint as a result of improper handling and/or jobsite storage. S.N. shall not be responsible for any field applied paint and/or coatings. (Section 6.5 AISC Code of Standard Practice. 16th Edition). Nominal thickness of primer will be 1 mil unless otherwise specified in contract documents.

1.4 GALVANIZED OR SPECIAL COATINGS: See Contract Documents

1.5 ALL BOLTS ARE 1/2"Ø x 0'-1" A307 (snug-tightened) EXCEPT

a) Eave strut connection - 1/2"Ø x 0'-1 1/4" A307 without washer (unless noted otherwise) b) Endwall rafter splice - 5/8"Ø x 0'-1 3/4" F3125/Gr. A325-N with washer c) Endwall column to rafter connection - 1/2"Ø x 0'-1 1/4" F3125/Gr. A325-N without washer d) Main frame moment splice connections - F3125/Gr. A325-N with washer, SEE CROSS SECTION for dimensions.

NOTE: One (01) washer is supplied on main frame moment splice and to A325 bolts unless noted otherwise on drawing

1.6 F3125/Gr. A325 BOLT TIGHTENING REQUIREMENTS

All high strength bolts are F3125/Gr. A325-N unless specifically noted otherwise. Structural bolts shall be tightened by the turn-of-the-nut or calibrated wrench methods in accordance with the 16th Edition AISC/RCSC "Specification For Structural Joints using ASTM F3125/Gr. A325 or A490 Bolts". Washers are supplied separately from High Strength Bolts, however, assembly with washers are required before erection. Installaltion inspection is recommended and be based on Section 9.1 and 9.2 of AISC/RCSC.

Snug-tight is permitted EXCEPT for the following conditions: a) Building located in high seismic areas; Seismic Design Categories D, E, F b) Building supporting cranes

c) Building supporting machinery that creates vibration, impact or stress reversal d) Connections using ASTM A490 e) Connections using slip-critical condition

1.7 CLOSURE STRIPS ARE FURNISHED FOR APPLICATION: INSIDE- Under roof panels at eave

OUTSIDE - Between endwall panels and rake trim - Under continuous ridge vent skirts

f) or as prohibited in the contracts/specifications

1.8 ERECTION NOTE: All bracing, strapping, & bridging shown and provided by S.N. for this building is required and shall be installed by the erector as a permanent part of the structure. If additional bracing is required for stability during erection, it shall be the erector's responsibility to determine the amount of such bracing and to procure and install as needed.

1.9 ERECTION AND UNLOADING NOT BY S.N.

1.10 SHORTAGES

Any claims or shortages by buyer must be made to S.N. within five (5) working days after delivery, or such claims will be considered to have been waived by the customer and disallowed.

1.11 CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10) Claims for correction of alleged misfits will be disallowed unless S.N. shall have received prior notice thereof and allowed reasonable inspection of such misfits. The correction of minor misfits by the use of drift pins to draw the components into line, moderate amounts of reaming, chipping and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim. No part of the Building may be returned for alleged misfits without the prior approval of S.N.

# **BUYER/END USE CUSTOMER RESPONSIBILITIES**

2.1 It is the responsibility of the BUYER/END USE CUSTOMER to obtain appropriate approvals and secure necessary permits from City, County, State, or Federal Agencies as required, and to advise/release S.N. to fabricate upon receiving such.

Steel Nation (hereafter referred to as S.N.) standard specifications apply unless stipulated otherwise in the Contract Documents. S.N. design, fabrication, quality criteria, standards, practice, methods and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both Parties that the BUYER/END USE CUSTOMER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications.

In case of discrepancies between S.N. structural steel plans and plans for other trades, S.N. plans shall govern. (Section. 3 AISC Code of Standard Practices, 16th Edition)

Approval of S.N. drawings and calculations indicates that S.N. has correctly interpreted and applied the Contract Documents. This approval constitutes the contractor/owners acceptance of the S.N. design concepts, assumptions, and loading. (Section 4 AISC Code 16th Edition and MBMA 3.3.3)

Once the BUYER/END USE CUSTOMER has signed S.N. Approval Package and the project is released for fabrication, changes shall be billed to the BUYER/ END USE CUSTOMER including material, engineering and other costs. An additional fee may be charged if the project must be moved from the fabrication and shipping schedule.



PH: 724.225.2202 **♦ INFO@STEELNATION.COM** 



		C.V.	I # 1 <i>1</i> 72		
SN # 1472 Ridgeview Station Garage (NiSource CG Garage Building)					
	Tageview	Otation Can	- INOUGICE	Joseph Dallage Balla	
SALES NO.	82397	JOB NO.	173430	BUILDING	Α
CUSTOMER	Steel Natio	Steel Nation Buildings, Inc.			
END USER	Columbia Gas (NiSource CG Utility Building)				
END USE	Garage Building				
STREET	1336 Ridgeview Road (40.014367, -83.048681)				
CITY ST ZIP	Upper Arlington, OH 43221				
COUNTY	Franklin				

# THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING AS INDICATED:

DESIGN LOADS:		BUILDING DESCRIPTI
Design Code	: IBC 21	Width (ft)
Dead Load (psf)	: Metal building structure only by Steel Nation	Length (ft)
Collateral Load (psf)	: 5.00	Eave Ht. at BSW (ft)
Wind Load		Eave Ht. at FSW (ft)
Basic Design Wind Speed	: Vult (3 sec. gust) = 115 mph	Roof Slope at BSW
Allowable Stress Design Wind Speed	: Vasd (3 sec. gust) = 89.08 mph	Roof Slope at FSW
Risk Category	: II - Normal	Bay Spacing (ft)
Wind Exposure	: C	
Internal Pressure Coefficient, GCPi	: 0.18 / -0.18	COVERING AND TRIM
Design Wind Pressure For Wall	: Based on Allowable Stress Design Wind Speed	
Components Wind Pressure (psf) asd	: 13.61	Roof Panels & Trims
Components Wind Suction (psf) asd		Panel Type
Claddings Wind Pressure (psf) asd		ь т
Claddings Wind Suction (psf) asd		Pan Type
Enclosure	: Enclosed	Clips Type
Live Load		Thermal Blocks
Primary Framing (psf)	: 20.00	Lok Seam
Trib. Area Reduction	: Yes	Panel Color
Secondary Framing (psf)	: 20.00	Trim Colors
Snow Load Ra (not)	. 20.00	Eave Trim
Ground Snow Load, Pg (psf)	: 20.00	Eave Gutter
Roof Snow Load, Ps (psf)	: 20.00 : 20.00	Gable Trim
Sloped Roof Snow Load, Ps (psf) Snow Exposure Factor, Ce	: 1.00	Gable IIIII
Snow Exposure Factor, Ce Snow Importance Factor, Is	: 1.00	Wall Panel & Trims
Thermal Factor, Ct	: 1.00	Panel Type
Sloped Factor, Cs	: 1.00	, ss <b>,</b> , , ,
Seismic Load	. 1.00	Panel Color
Seismic Importance Factor, le	: 1.00	Trim Colors
Seismic Occupancy Category	: II - Normal	Corner Trims
Site Class	: D	
Mapped Spectral Response Acceleration	: Ss = 0.1200 : S1 = 0.0620	Opening Trims
Spectral Response Coefficients	: $Sds = 0.1280$ : $Sd1 = 0.0992$	Box Downspouts
Seismic Design Category	: B	Base Trim
Basic Force Resisting Systems Used	: Steel System Not Specifically Detailed	Mas. Flash
	For Seismic Resistance	Special Requirements
	: Rigid Frames : Braced Frames	
Total Design Base Shear, V (kips)	: Longitudinal= 3.09 Transverse=3.42	
Response Modification Factors, R	: Rigid Frames = 3.00	
•	: SW X-Bracing = 3.00	
Seismic Response Coefficient, Cs	: Rigid Frames = 0.043	Before ere
	: SW X-Bracing = 0.043	see the Ri
Analysis Procedure Used	: Equivalent Lateral Force Procedure	at rigidbui
Rainfall Intensity (in/hr)	: 6.0600	SEALING C OR CONSTI

TION:

: 24 : 42 14 14 3.0.12 3.0:12 : 1 at 22 1 at 20

MS:

: 24 Ga. Platinum (16" Wideï¼+ SSR : Striated

: 3 3/8" High Floating : 3/8" Thk

: Quad-Lok : S3000 Standard (KYNAR)

S3000 Standard : S3000 Standard : S3000 Standard

: 26 Ga. Rev. PBM

(36" Wide) Screw Down : Glvm.Plus

: Glvm.Plus : S3000 Standard ıts : S3000 Standard

: --: --: NONE

> erecting your building, please Rigid Erection & Safety Manual uilding.com/document-library

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT RIGID GLOBAL ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY RIGID IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN RIGID ARE SPECIFICALLY **EXCLUDED. NO INSPECTION OR SUPERVISION IS** IMPLIED.

The BUYER/END USE CUSTOMER is responsible for overall project coordination. All interface, compatibility, and design considerations concerning any materials not furnished by S.N. and S.N. steel system are to be considered and coordinated by the BUYER/END USE CUSTOMER. Specific design criteria concerning this interface between materials must be furnished before release for fabrication or S.N. assumptions will govern (Section 4 and Commentary, AISC Code of Standard Practice, 16th Edition)

It is the responsibility of the BUYER/END USE CUSTOMER to ensure that S.N. plans comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that S.N. or its design engineers are acting as the engineer of record or design professional for a construction project. These drawings are sealed only to certify the design of the structural components furnished by S.N.

The BUYER/END USE CUSTOMER is responsible for setting of anchor bolts and erection of steel in accordance with S.N. "For Construction" drawings only. Temporary supports such as guys, braces, falsework, cribbing or other elements required for the erection operation shall be determined furnished and installed by the erector. No items should be purchased from a preliminary set of drawings, including anchor bolts. Use only final "FOR CONSTRUCTION DRAWINGS" for this use. (Section 7 AISC Code of Standard Practice, 16th Edition.)

Steel Nation is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing and tension, but is not responsible for the transfer of anchor bolt forces to the concrete, anchor bolt embedment or the adequacy of the anchor bolt in relation to the concrete. Unless otherwise provided in the Order Documents, S.N. does not design and is not responsible for the design, material and construction of the foundation or foundation embedments. The END USE CUSTOMER should assure himself that adequate provisions are made in the foundation design for loads imposed by column reactions of the building, other imposed loads, and bearing capacity of the soil and other conditions of the It is recommended that the anchorage/anchor bolt embedment and foundation of the building be designed by a Registered Professional Engineer experienced in the design

of such structures. (Chapter IV Section 3.2.2 Metal Building Systems Manual 2018 Edition)

Normal erection operations include the corrections of minor misfits by moderate amounts of reaming, chipping, welding or cutting, and the drawing of elements into line through the use of drift pins. Errors which cannot be corrected by the foregoing means or which require major changes in member configuration are to be reported immediately to S.N. by the BUYER/END USE CUSTOMER, to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others. (Section 7 AISC Code of Standard Practice, 16th Edition)

Neither the fabricator nor the BUYER/END USE CUSTOMER will cut, drill or otherwise alter his work, or the work of other trades, to accommodate other trades, unless such work is clearly specified in the contract documents. Whenever such work is specified, the BUYER/END USE CUSTOMER is responsible for furnishing complete information as to materials, size, location and number of alterations prior to preparation of shop drawings. (Section 7 AISC Code of Standard Practice, 16th Edition)

WARNING In no case should Galvalume steel panels be used in conjunction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume alloy coating when they are in contact with Galvalume steel panels. Even run-off from copper flashing, wiring, or tubing onto Galvalume should be avoided.

SAFETY COMMITMENT Steel Nation has a commitment to manufacture quality building components that can be safely erected. However, the safety commitment and job site practices of the erector are beyond the control of S.N. It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Local, State, and Federal safety and health standards should always be followed to help insure workers safety. Make certain all employees know the safest and most productive way of erecting a building. Emergency procedures should be known to all employees. Daily meetings highlighting safety procedures are also recommended. The use of hard hats, rubber sole shoes for roof work, proper equipment for

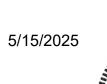
handling material, and safety nets where applicable, are recommended. Roof drainage systems (gutter, downspouts, etc.) must be free of any obstruction

to ensure smooth operation at any given time.

It is recommended by Factory Mutual (Reference: B2.44) that roofs be cleared of snow when half of the maximum snow depth is reached. The maximum snow depth can be estimated based on the design snow load and the density of snow and/or ice buildup. See Chart below.

RECOMMENDED SNOW HEIGHT ROOF SNOW LOAD **EQUIVALENT SNOW HEIGHT AT ROOF** WHEN SNOW REMOVAL SHOULD START (IN PSF) (IN INCHES) (IN INCHES) 8.30 17.90 8.95 19.20 9.60 20.50 10.25 10.90 21.80 11.55 23.10 12.20 24.40

NOTE: For Snow/Ice Removal Procedure, Refer to Metal Building System Manual 2018 Edition, Section A9.4



STEEL NATION BUILDINGS, INC.

82397 173430 C001

LONG

E-51396

# UNLOADING, HANDLING AND STORING OF MATERIALS



## STRUCTURAL

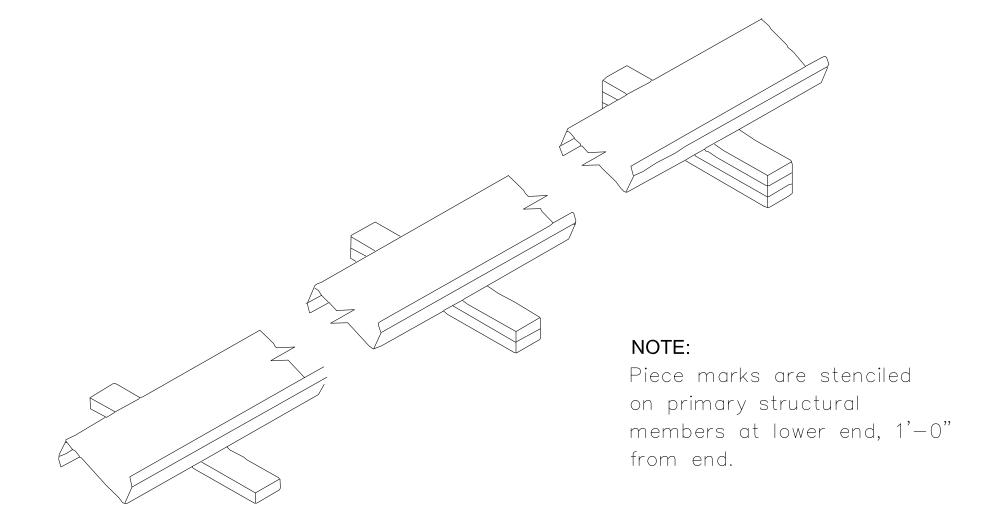
A great amount of time and trouble can be saved if the building site is according to a pre—arranged plan. Proper location and handling of components will eliminate unnecessary handling.

Inspect all shipments prior to releasing the tie—downs for loads that may have shifted during transit, **REMEMBER**, **SAFETY FIRST!** 

Blocking under the columns and rafters protects the splice plates and the slab from damage during the unloading process. It also facilitates the placing of slings or cables around the members for later lifting and allows members to be bolted together into sub—assemblies while on the ground. Extra care should always be exercised in the unloading operations to prevent injuries from handling the steel and to prevent damage to materials and the concrete slabs.

If water is allowed to remain for extended periods in bundles of primed parts such as girts, purlins etc., the pigment will fade and the paint will gradually soften, reducing the bond to the steel. Therefore, upon receipt of a job, all bundles of primed parts should be stored at an angle to allow any trapped water to drain away and permit air circulation for drying. Puddles of water should not be allowed to collect and remain on columns, rafters or beams for the same reason.

### All Primer should be touched up as required before erection!



## WALLS AND ROOF PANELS

RIGID's wall and roof panels including color coated, galvalume and galvanized, provide excellent service under widely varied conditions. All unloading and erection personnel should fully understand that these panels are quality merchandise which merit cautious care in handling.

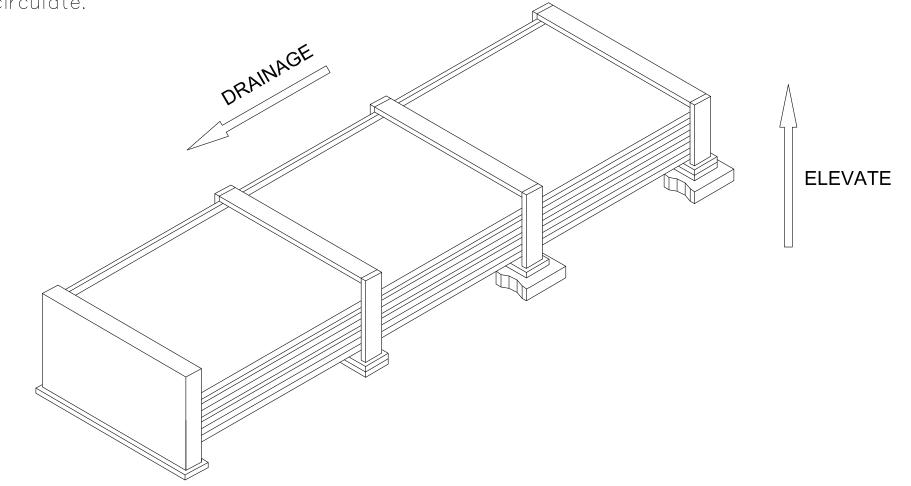
Under no circumstances should panels be handled roughly. Packages of sheets should be lifted off the truck with extreme care taken to insure that no damage occurs to ends of the sheets or to side ribs. The packages should be stored off the ground sufficiently high to allow air circulation underneath the packages. This avoids ground moisture and deters people from walking on the packages. One end of the package should always be elevated to encourage drainage in case of rain.

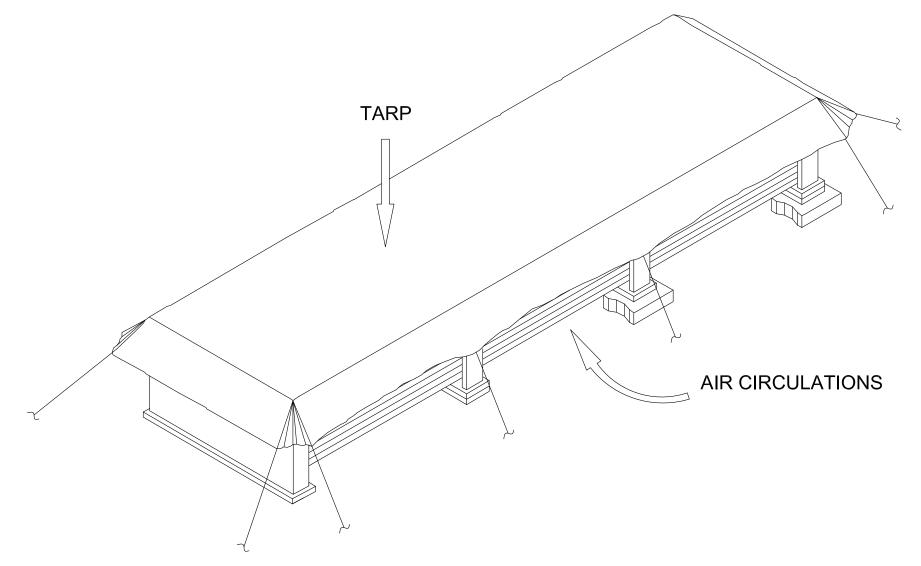
All stacked metal panels are subject, to some degree, to localized discoloration or stain when water is trapped between their closely nested surfaces. RGB exercises extreme caution during fabricating and shipping operations to insure that all panel stock is kept dry. However, due to climatic conditions, water formed by condensation of humid air can be trapped between stacked sheets. Water can also be trapped between stacked sheets when exposed to rain. This discoloration caused by trapped moisture is often called wet storage stain.

The stain is usually superficial and has little effect on the apperance or service life of the panels as long as it is not permitted to remain on the panels. However, moisture in contact with the surface of the panels over an extended period can severely attack the finish and reduce the effective service life. Therefore, it is imperative that all panels be inspected for moisture upon receipt of the order. If moisture is present, dry the panels at once and store in a dry, warm place.

CAUTION: Care should always be taken when walking on panels. Use saftey lines and nets when necessary! Panels are slippery. Oil or wax applied to the roof and wall panels for protection against weather damage will make them a very slippery surface. Wipe dry any oil that has puddled from bundles stored on a slope. Dew, frost, or other forms of moisture greatly increase the slipperiness of the panels. Always assume panel surface is slippery and act accordingly. Think safety!!

Use wood blocking to elevate and slope the panels in a manner that will allow moisture to drain. Wood blocking placed between bundles will provide additional air circulation. Cover the stacked bundles with a tarp or plastic cover leaving enough opening at the bottom for air to circulate.





When handling or uncrating the panels, <u>lift, rather than slide, them apart.</u> Burred edges may scratch the coated surfaces when sheets are slid over one another. Never allow panels to be walked on while on the ground.

Rough and improper handling of a panel is inexcusable and a prime example of poor job supervision.

### NOTE:

Use gloves when handling metal panels to prevent hand injuries. Be aware, of the dangers of handling panels on a windy day. A large panel can catch enough wind to knock a worker off his feet, even at ground level!! Safety first!

## **GENERAL NOTE:**

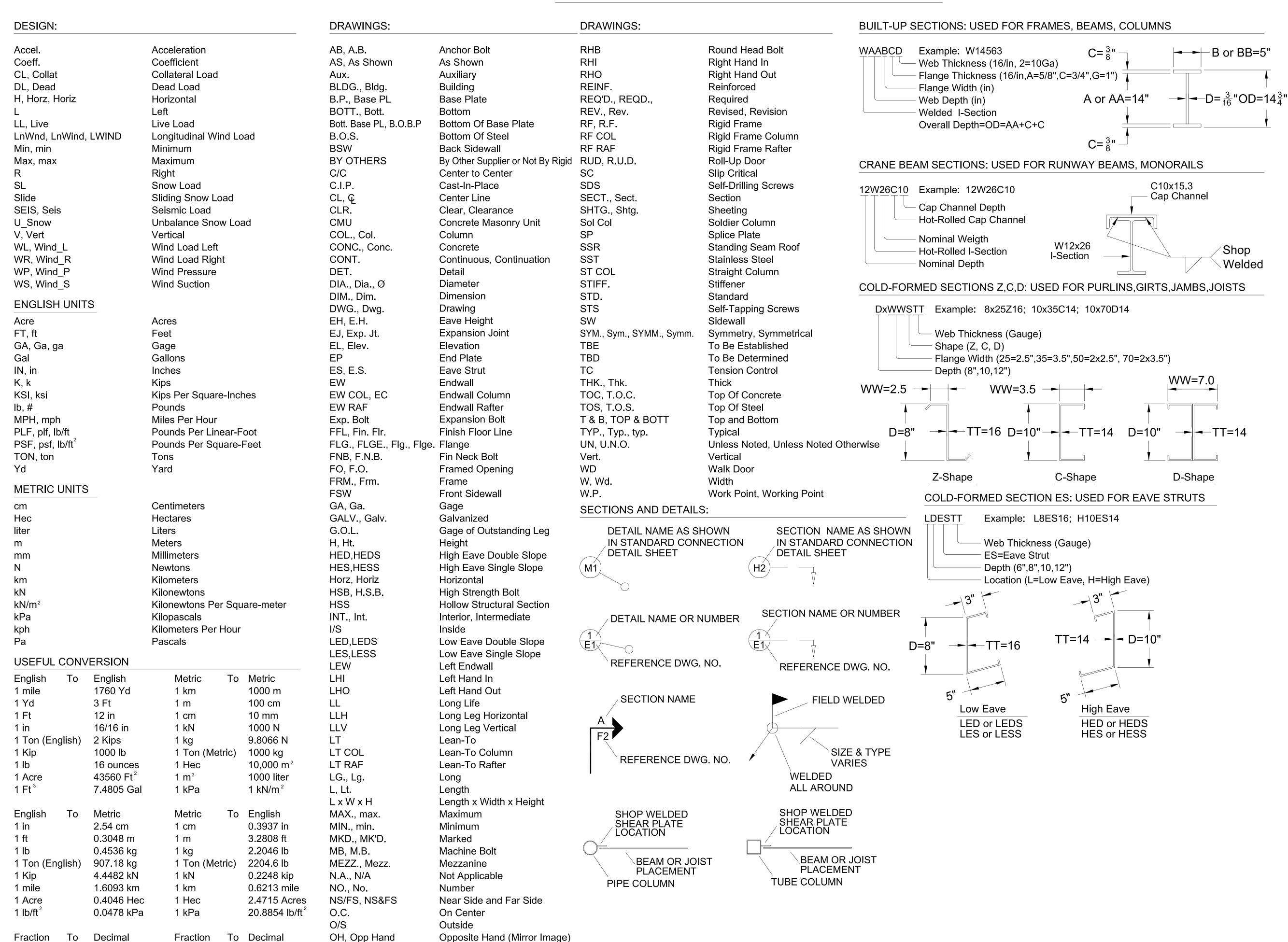
- 1. OIL CANNING OF PANELS IS NOT A CAUSE OF REJECTION.
- 2. EXTREME CARE MUST BE EXERCISED DURING THE ERECTION OF ROOF PANELS AND TRIMS. FOOT TRAFFIC MAY RESULT IN PERMANENT PANEL DISTORTION AND FINISH ABRASION.



3/						
	DES.	CHK.	DRN.	DATE	DESCRIPTION	UE
<b>A</b>	YHL	MDL	ZGL	05/15/25	APPROVAL/PERMIT	7
STEELNATION						
100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15 PH: 724.225.2202 ♦ INFO@STEELNATION.COM						
				<del> </del>		

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	DESCRIPTION	UNLOADII	NG, HAN	DLING AND	STORING C	F MATE	ERIALS
	CUSTOMER	STEEL NATION BUILDINGS, INC.					
N	END USER	Columbia (	Gas (NiS	ource CG Ut	ility Building)		
T 4	END USE	Garage Bu	ilding		BUILDING	P	4
A 15317	STREET	1336 Ridg	eview Ro	ad (40.0143	67, -83.0486	81)	
	CITY ST ZIP	Upper Arlir					
	82397	лов No.: 1734	30	N.T.S.	DWG. NO.: C002		ISSUE:

# LEGENDS & ABBREVIATIONS



1/16

1/8

3/16

1/4

5/16

3/8

7/16

1/2

0.0625

0.1250

0.1875

0.2500

0.3125

0.3750

0.4375

0.5000

9/16

5/8

3/4

7/8

11/16

13/16

15/16

16/16

0.5625

0.6250

0.6875

0.7500

0.8125

0.8750

0.9375

1.0000

OHD, O.H.D.

O/O

PF COL

PF RAF

QTY., Qty.

REF., Ref.

PL, P

REW

Over-Head Door

Refer, Reference

Right Endwall

Portal Frame Column (Wind Bent Column)

Portal Frame Rafter (Wind Bent Rafter)

Out to Out

Plate

Quantity





	DES.	CHK.	DRN.	DATE	DESCRIPTION	ISSUE
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NATION	END USER	Columbia (	Gas (NiS	ource CG Ut	tility Building)	
	END USE	Garage Bu	ilding		BUILDING	Α
ARE LANE ♦ CANONSBURG, PA 15317 • ♦ INFO@STEELNATION.COM	STREET	1336 Ridge	eview Ro	ad (40.0143	67, <b>-</b> 83.04868	1)
	CITY ST ZIP	Upper Arlir	ngton, Ol	Ⅎ 43221		
	82397	JOB NO.: 1734:	30	NTS	DWG. NO.:	IS

# DRAWING INDEX

DWG. NO.	ISSUE	DRAWING TITLE	DWG. NO. ISSUE	DRAWING TITLE
C001	A	COVER SHEET		
C002	A	UNLOADING, HANDLING AND STORING OF MATERIALS		
C003	A	LEGENDS AND ABBREVIATIONS		
C004	A	DRAWING INDEX		
C005	A	BUILDING ISOMETRIC VIEW		
F001	A	COLUMN LAYOUT PLAN		
F002	A	ANCHOR BOLT DETAILS		
F003	A	ANCHOR BOLT REACTIONS		
F004	A	WIND LOAD DIAGRAM		
E001	A	ROOF FRAMING PLAN		
E002	A	ROOF SHEETING PLAN		
E003	A	RIGID FRAME ELEVATION		
E004	A	RIGID FRAME ELEVATION		
E005	A	ENDWALL FRAMING & SHEETING ELEVATION		
E006	A	ENDWALL FRAMING & SHEETING ELEVATION		
E007	A	SIDEWALL FRAMING & SHEETING ELEVATION		
E008	A	SIDEWALL FRAMING & SHEETING ELEVATION		
E009	A	DETAIL DRAWINGS		
E010	A	DETAIL DRAWINGS		
E011	A	DETAIL DRAWINGS		
E012	A	DETAIL DRAWINGS		
E013	A	DETAIL DRAWINGS		
E014	A	DETAIL DRAWINGS		
E015	A	DETAIL DRAWINGS		





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ANYONE OTHER THAN S.N. ARE SPECIFICALLY
EXCLUDED. NO INSPECTION OR SUPERVISION IS

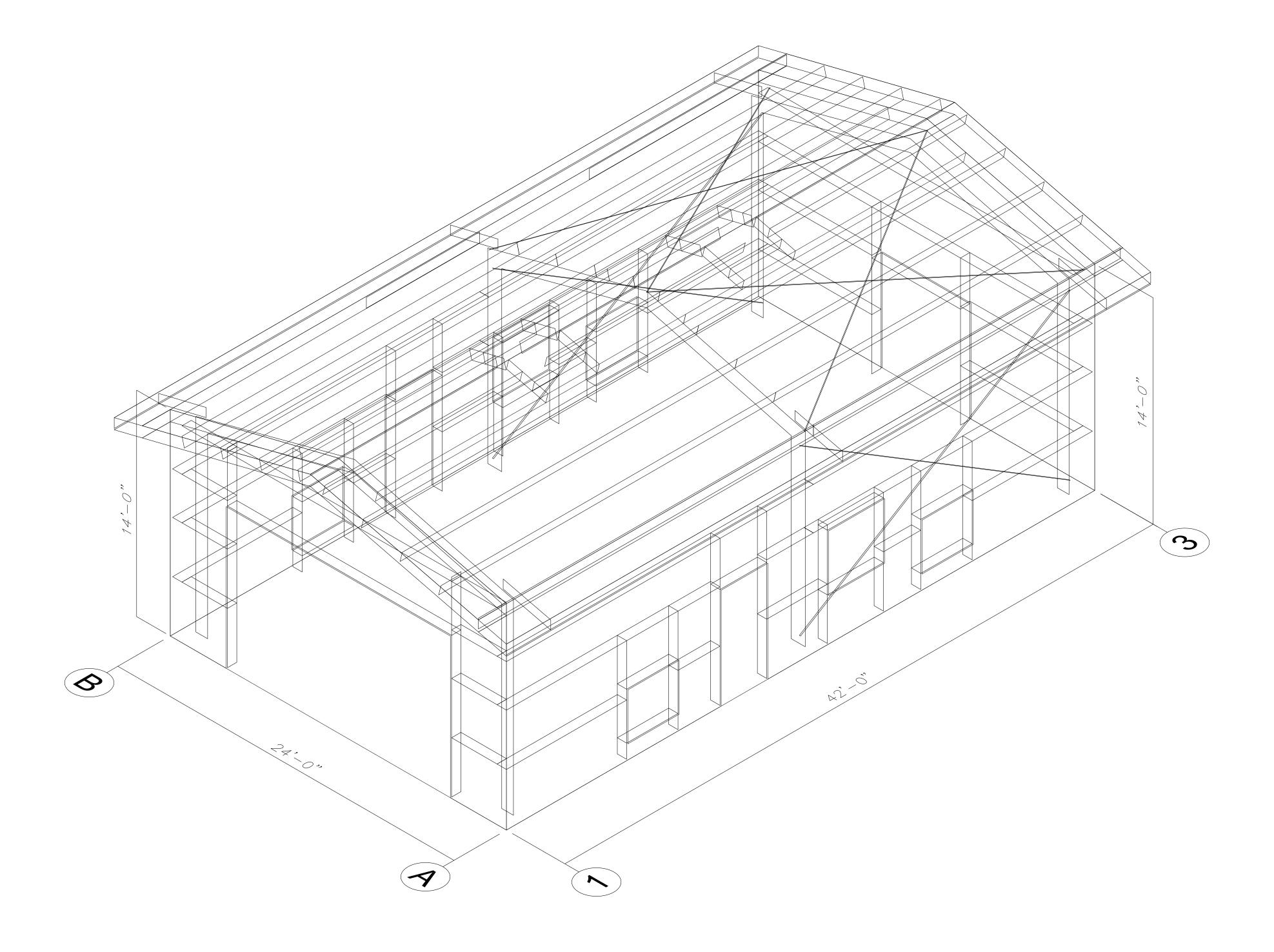
DATE DRN. CHK. DES. 05/15/25 ZGL MDL YHL STEELNATION 100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM

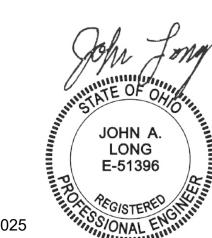
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DESCRIPTION	DRAWING IN	DEX		
CUSTOMER	STEEL NATIO	N BUILDINGS, IN	NC.	
END USER	Columbia Gas	(NiSource CG U	tility Building)	
END USE	Garage Buildir	ng	BUILDING	Α
STREET	1336 Ridgevie	w Road (40.0143	67, -83.0486	81)
CITY ST ZIP	Upper Arlingto	on, OH 43221		
82397	JOB NO.: 173430	N.T.S.	DWG. NO.: C004	A ISSUE:







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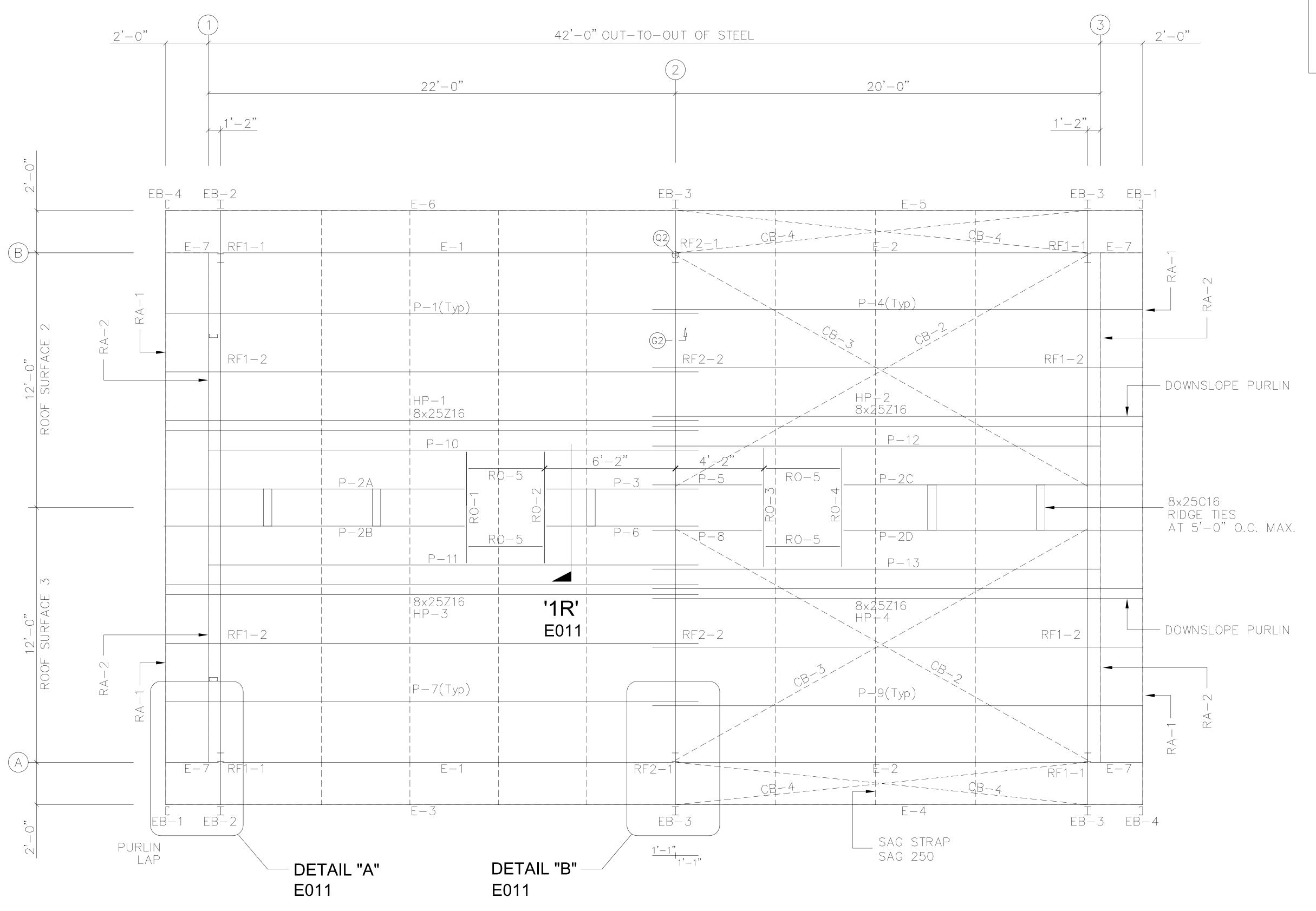
**BUILDING ISOMETRIC VIEW** 

FOR GENERAL OVERVIEW ONLY SEE ROOF FRAMING, WALL ELEVATION, AND RIGID FRAME CROSS SECTION FOR DETAILS

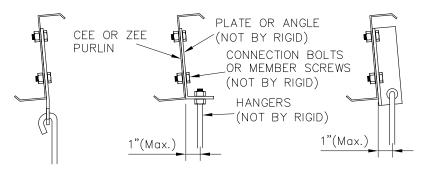
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
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	STEELNATION
	100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM

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	DESCRIPTION	BUILDING	ISOMETR	IC VIEW		
	CUSTOMER STEEL NATION BUILDINGS, INC.					
	END USER Columbia Gas (NiSource CG Utility Building)					
	END USE Garage Building BUILDING A				Α	
	STREET 1336 Ridgeview Road (40.014367, -83.048681)					
	CITY ST ZIP Upper Arlington, OH 43221					
	SALES NO.: <b>82397</b>	JOB NO.: 1734;	30	N.T.S.	DWG. NO.: C005	S ISSUE:



# ROOF FRAMING PLAN



(1) (2) (3)

HANGERS ON CEE OR ZEE PURLINS MUST ATTACH TO THE WEB ONLY.

HANGERS MUST BE LOCATED SO THAT THE SUPPORTED LOAD DOES

NOT EXCEED THAT SPECIFIED IN THE CONTRACT DOCUMENTS.

SUGGESTED DETAILS ARE AS SHOWN ABOVE.



|| || || DO NOT USE C-CLAMPS OR ANY OTHER HANGER ATTACHED TO THE FLANGE OF THE PURLIN. IT REDUCES THE CAPACITY OF THE PURLIN AND PRODUCE SECONDARY STRESSES.

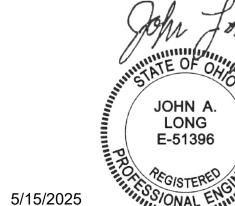
1 TYP. COLLATERAL LOAD CONNECTION DETAIL SF38

## IMPORTANT NOTES:

High R-value roof insulation systems require two layers of insulation. The sag straps that prevent purlin roll may conflict with faced roof insulation between purlins. Rigid Global Buildings recommends an unfaced layer between the purlins that can be cut around the required framing.

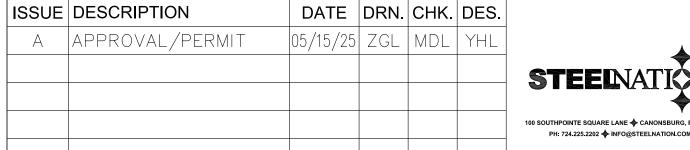


MEMBER ROOF PL	
MARK	PART
EB-1 EB-2 EB-3 EB-4 RO-1 RO-2 RO-3 RO-4 RO-5	8x35C14 W8x10 W8x10 8x35C14 8x35C14 8x35C14 8x35C14 8x35C14 8x35C14 8x25C16
P-1 P-2A P-2B P-2D P-3 P-3 P-5 P-7 P-10 P-11 P-13 HP-1 HP-3 HP-4	8x25Z16 8x25Z16 8x25Z16 8x25Z16 8x25Z16 8x25Z16 8x25Z16 8x25Z16 8x25Z16 8x25Z16 8x35Z14 8x35Z14 8x35Z14 8x35Z14 8x35Z14 8x35Z14 8x35Z16 8x25Z16 8x25Z16 8x25Z16
E-1 E-2 E-3 E-4 E-5 E-6 E-7	L8ES16 L8ES16 8x35C16 8x35C16 8x35C16 8x35C16 L8ES16
CB-2 CB-3 CB-4	CB0250 CB0250 CB0250



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DESIGN OF THE METAL BUILDING SYSTEM AS
FURNISHED BY S.N. IS INCLUDED. FOUNDATION
ANALYSIS, ELECTRICAL, AND MECHANICAL
SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY
ANYONE OTHER THAN S.N. ARE SPECIFICALLY
EXCLUDED. NO INSPECTION OR SUPERVISION IS

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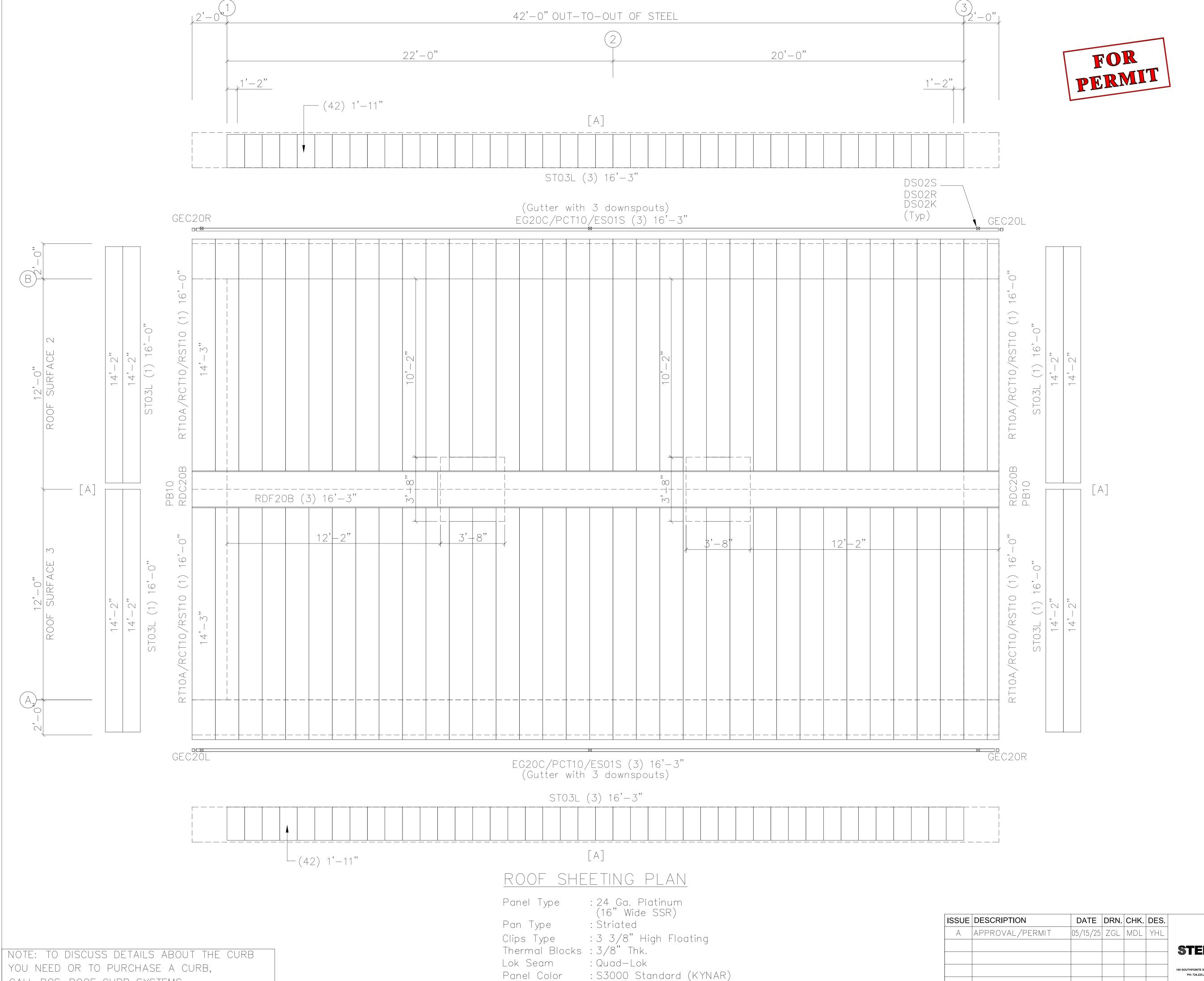
	•
	DESCRIPTION
•	CUSTOMER
EDNATION	END USER
	END USE
UARE LANE  CANONSBURG, PA 15317 02  INFO@STEELNATION.COM	STREET
	CITY ST ZIP

)25 PROPERTY OF THE PROPERTY O	STERED ONE STERED	SYSTEMS, AND/OR OF ANYONE OTHER THAT EXCLUDED. NO INSPIRED.	N S.N. ARE	SPECIFICALLY	
DESCRIPTION	ROOF FRA	AMING PLAN			
CUSTOMER	STEEL NA	TION BUILDINGS, IN	1C.		
END USER	ND USER Columbia Gas (NiSource CG Utility Building)				
END USE Garage Bu		ilding	BUILDING	А	
TREET 1336 Ridgeview Road (40.014367, -83.048681)					

N.T.S.

Upper Arlington, OH 43221

173430



[A] SOFFIT PANELS: 24 Ga. RFP - Cool White

CALL RCS-ROOF CURB SYSTEMS

AT SALES@ROOFCURB.COM OR 1-800-683-5848

## IMPORTANT NOTES:

Additional Panel Information

Roof Panel: Platinum (16" Wide) SSR
Roof Insulation Thickness (in.) Above Purlin:

SSR Clip Type: High Floating System

SSR Seam Type: Quad—Lok

- 1. OIL CANNING OF PANELS IS NOT A CAUSE OF REJECTION.
- 2. EXTREME CARE MUST BE EXERCISED DURING ERECTION OF ROOF PANELS AND TRIMS. FOOT TRAFFIC MAY RESULT IN PERMANENT PANEL DISTORTION AND FINISH ABRASION.

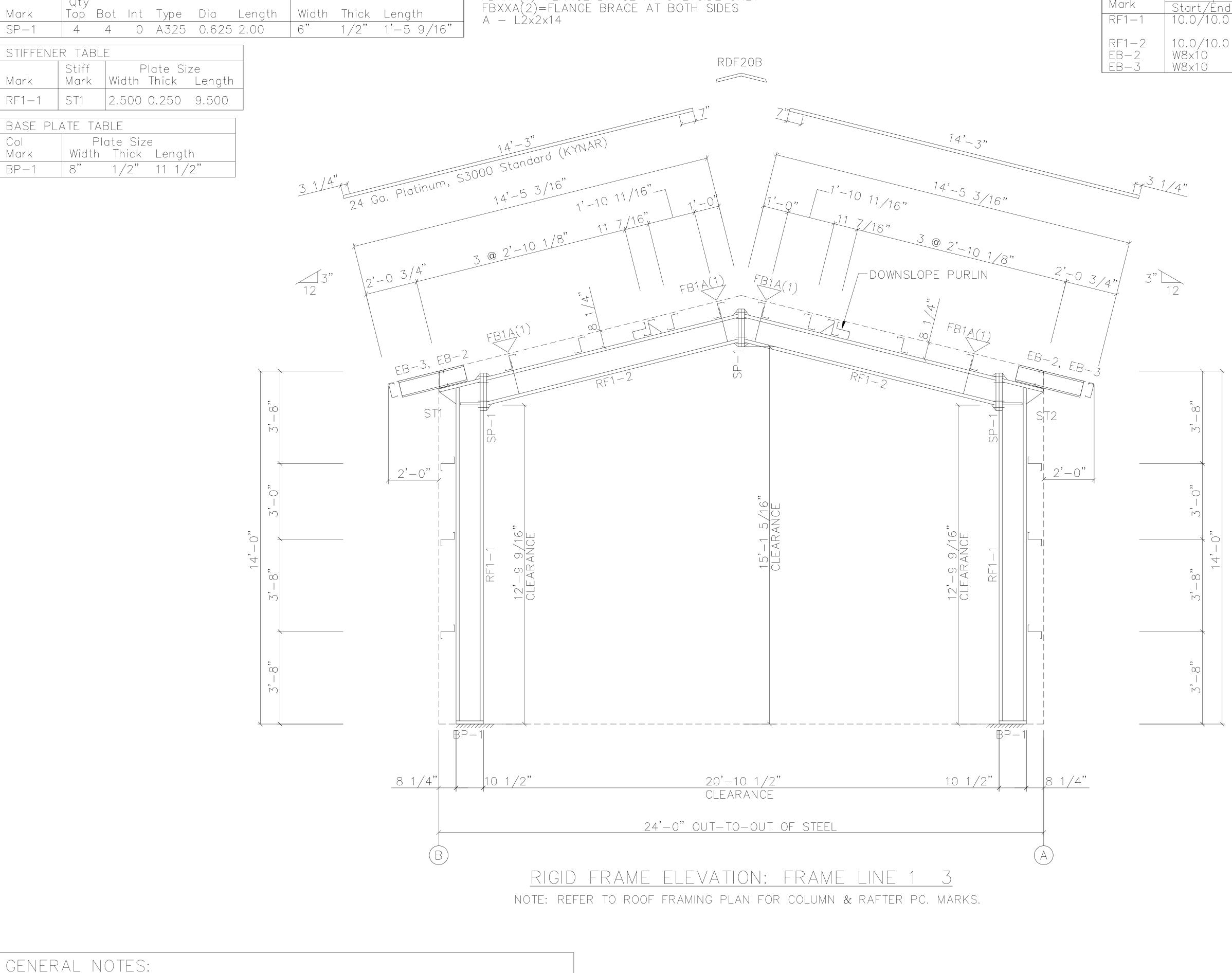
#### FRECTOR'S NOTE

- 1. INSTALLER OF STANDING SEAM ROOF PANEL MUST STUDY
  THE INSTALLATION MANUALS PRIOR TO INSTALLATION.
  MANUALS ARE PROVIDED WITH THE MATERIALS SHIPMENT BUT
  CAN BE REQUESTED OR DOWNLOADED FROM THE
  WEBSITE AT www.rigidbuilding.com
- 2. FAILURE TO INSTALL THE ROOF SHEETS IN ACCORDANCE WITH THE SHEETING DIRECTIONAL ARROWS SHOWN ON THESE PLANS MAY RESULT IN IMPROPER FIT—UP OF THE OUTSIDE CLOSURES (END DAMS) AND POSSIBLY OTHER TRIM COMPONENTS WHICH COULD AFFECT THE OVERALL APPEARANCE AND WEATHER TIGHTNESS OF THE BUILDING. S.N. WILL NOT BE HELD RESPON—SIBLE FOR THE CHARGES OR ADDITIONAL FIELD WORK DUE TO NOT FOLLOWING SHEETING DIRECTIONAL ARROWS AND OTHER PROCEDURES OUTLINED IN THE ERECTION MANUAL.
- 3. IN THE EVENT THAT A DISCREPANCY OR ERROR ARISES WITH MATERIALS SHIPPED FOR THIS PROJECT OR ON THESE ERECTION DRAWINGS, THE ERECTOR/INSTALLER MUST NOTIFY S.N. PRIOR TO CORRECTING. IF RGB IS NOT NOTIFIED, S.N. WILL NOT HONOR BACKCHARGES BY ANY PARTY INVOLVED.
- 4. MEMBER SCREW AND STITCH SCREW PATTERNS AND LOCATIONS SHALL BE IN ACCORDANCE WITH ROOF AND WALL DETAILS SHOWN ON DWG. # E012
- 5. S.N. SUPPLIES 5% OVERAGE FOR SCREWS AND ANY CLAIM ON SHORTAGE BECAUSE OF NON—COMPLIANCE WITH THE DRAWINGS SHALL NOT BE S.N.'S RESPONSIBLITY.





Thinks S/O	VAL ENGINEER		ED. NO INSP	ECTION OR S		
SCRIPTION	ROOF SHE	ETING	PLAN			
STOMER	STEEL NA	STEEL NATION BUILDINGS, INC.				
O USER	Columbia Gas (NiSource CG Utility Building)					
O USE	Garage Bu	ilding		BUILDING	P	4
REET	1336 Ridge	view Ro	ad (40.0143	67, -83.0486	81)	
Y ST ZIP	Upper Arlington, OH 43221					
°.:82397	лов NO.: 17343	30	N.T.S.	DWG. NO.: <b>E002</b>	)	ISSUE:



FBXXA(1)=FLANGE BRACE AT ONE SIDE ONLY

SPLICE PLATE & BOLT TABLE

CONSTRUCTION NOTES FOR THE RIGID FRAMES.

1. ALL PRIMARY STRUCTURAL STEEL SHALL BE FABRICATED FROM 50 OR 55 KSI STEEL.

2. ALL FIELD CONNECTIONS OF PRIMARY FRAMING MEMBERS SHALL BE BOLTED

WITH A325 H. S. BOLTS.

3. ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH

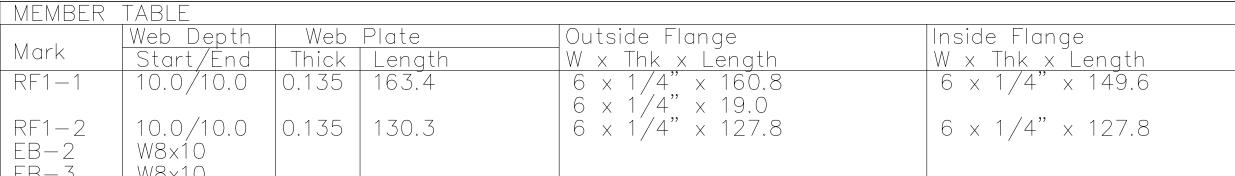
5. A325 High Strength bolt shall be tightened with one washer. Refer

to General Notes 1.5 and 1.6 on cover sheet for tightening methods

4. WELDING PROCESSES USED BY MANUFACTURER ARE IN ACCORDANCE WITH SEC.

A307 MACHINE BOLTS.

and installation inspections.





JOHN A. LONG E-51396

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
А	APPROVAL/PERMIT	05/15/25	ZGL	MDL	YHL

DES.	
YHL	<b>.</b>
	STEEDATION
	100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM

2025	IMPLIED.		ECHON OR S	SUPERVISION IS	
DESCRIPTION	RIGID FRAME ELEVATION				
CUSTOMER	STEEL NATION BUILDINGS, INC.				
END USER	Columbia Gas (NiSource CG Utility Building)				
END USE	Garage Building		BUILDING	Α	
STREET	1336 Ridgeview Road (40.014367, -83.048681)				
CITY ST ZIP	Upper Arlington, OH 43221				
82397	ЈОВ NO.: 17343	30	N.T.S.	DWG. NO.: <b>E003</b>	S A

SPLICE PLATE & BOLT TABLE Top Bot Int Type Dia Length | Width Thick Length Mark 1/2" 1'-7 5/8" SP-1O A325 0.625 2.00

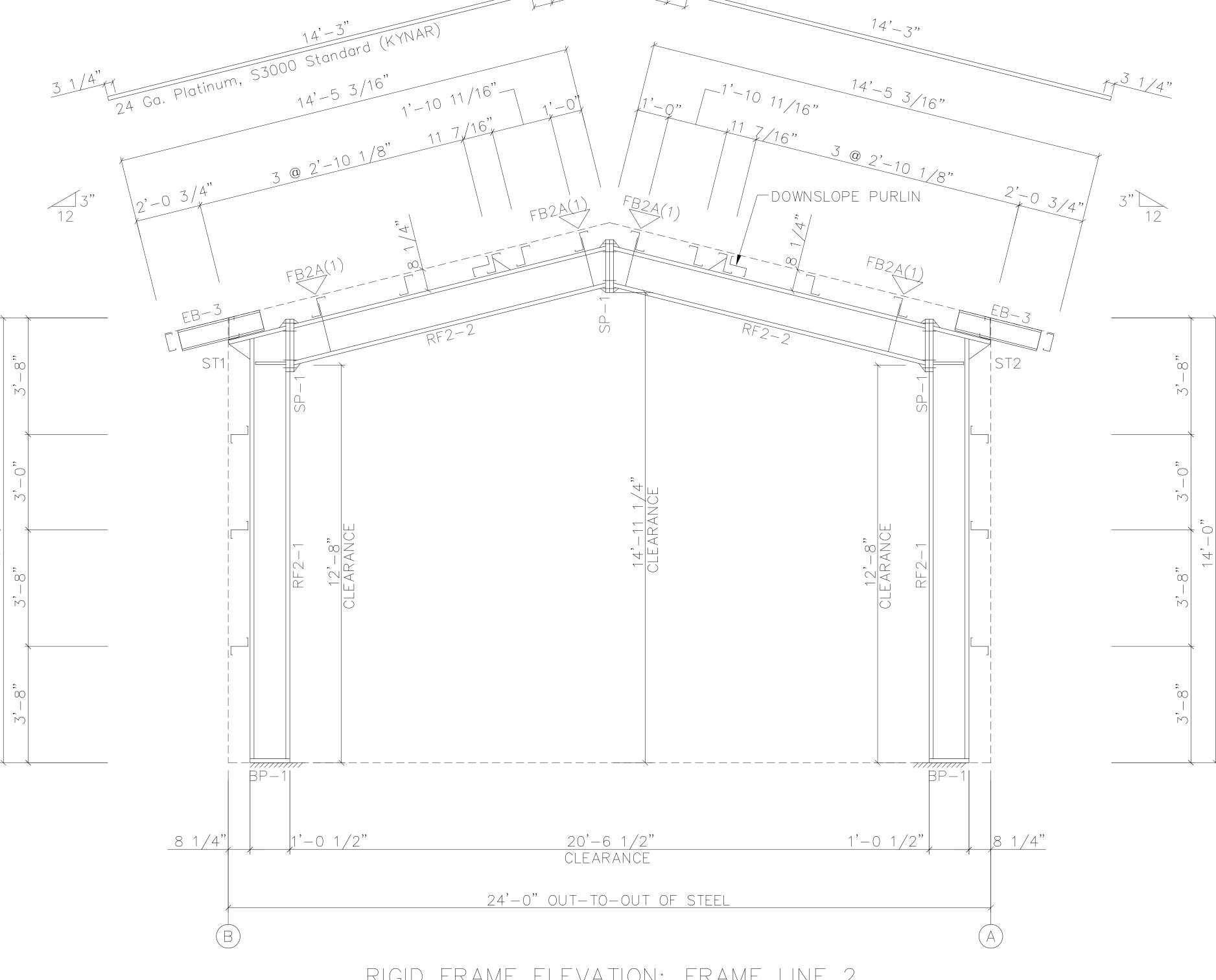
STIFFENER TABLE Stiff Plate Size Mark Width Thick Length Mark RF2-1 ST1 2.500 0.250 11.50

BASE PLATE TABLE Plate Size Col Mark Width Thick Length BP-1 1/2" 1'-1 1/2"

FBXXA(1)=FLANGE BRACE AT ONE SIDE ONLY FBXXA(2)=FLANGE BRACE AT BOTH SIDES A - L2x2x14

MEMBER TABLE Web Depth Web Plate Start/End Thick Length Outside Flange Inside Flange Mark W x Thk x Length W x Thk x Length 6 x 1/4" x 160.8 6 x 1/4" x 21.1 6 x 1/4" x 125.7 RF2-1 12.0/12.0 0.135 163.9 6 × 1/4" × 148.0  $6 \times 1/4$ " × 125.7 12.0/12.0 | 0.135 | 128.8

FOR PERMIT



RDF20B

RIGID FRAME ELEVATION: FRAME LINE 2

NOTE: REFER TO ROOF FRAMING PLAN FOR COLUMN & RAFTER PC. MARKS.

## GENERAL NOTES:

- CONSTRUCTION NOTES FOR THE RIGID FRAMES.

  1. ALL PRIMARY STRUCTURAL STEEL SHALL BE FABRICATED FROM 50 OR 55 KSI STEEL.

  2. ALL FIELD CONNECTIONS OF PRIMARY FRAMING MEMBERS SHALL BE BOLTED WITH A325 H. S. BOLTS.

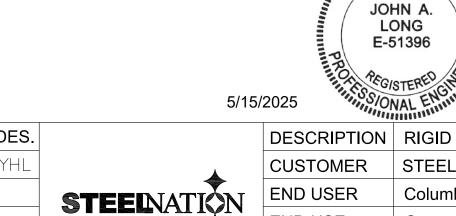
  3. ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A307 MACHINE BOLTS.

  4. WELDING PROCESSES USED BY MANUFACTURER ARE IN ACCORDANCE WITH SEC.
  - 5. A325 High Strength bolt shall be tightened with one washer. Refer to General Notes 1.5 and 1.6 on cover sheet for tightening methods and installation inspections.

DATE DRN. CHK. DES. ISSUE DESCRIPTION 05/15/25 ZGL MDL YHL A APPROVAL/PERMIT

EB-3

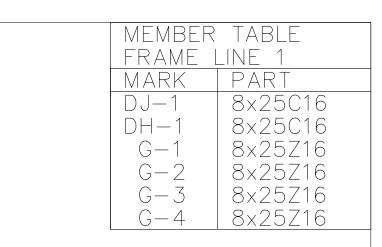
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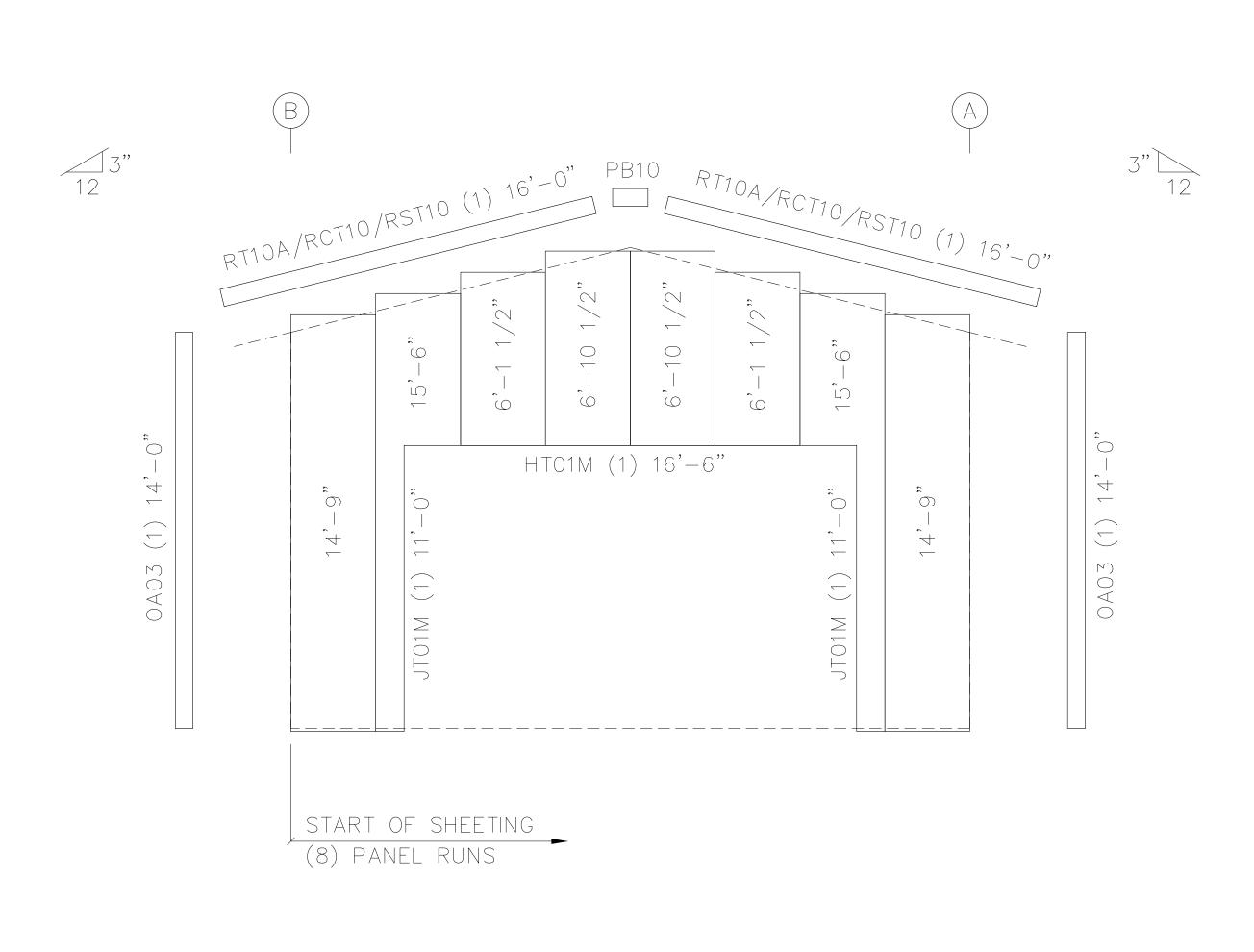
PH: 724.225.2202 
INFO@STEELNATION.COM

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		Milling.	IMPLIED.				
	DESCRIPTION	RIGID FRA	ME ELE	VATION			
	CUSTOMER	MER STEEL NATION BUILDINGS, INC.					
	END USER	Columbia Gas (NiSource CG Utility Building)					
	END USE	Garage Bu	ilding		BUILDING	А	
STREET 1336 Ridgeview Road (40.014367, -83.048681)					31)		
	CITY ST ZIP	Upper Arlington, OH 43221					
	SALES NO.: 82397	JOB NO.: 1734:		SCALE: NTS	DWG. NO.:	ISSUE:	







24'-0" OUT-TO-OUT OF STEEL

SLOT HOLES -1/8" DOWN -1/8" UP

G - 3

DH-1

16'-0"

ENDWALL FRAMING: FRAME LINE 1

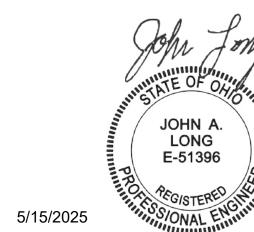
4'-0"

SAG STRAP —

\_\_2'-0"

12

ENDWALL SHEETING & TRIM: FRAME LINE 1 PANELS: 26 Ga. Rev. PBM — Glvm.Plus



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LONG
E-51396

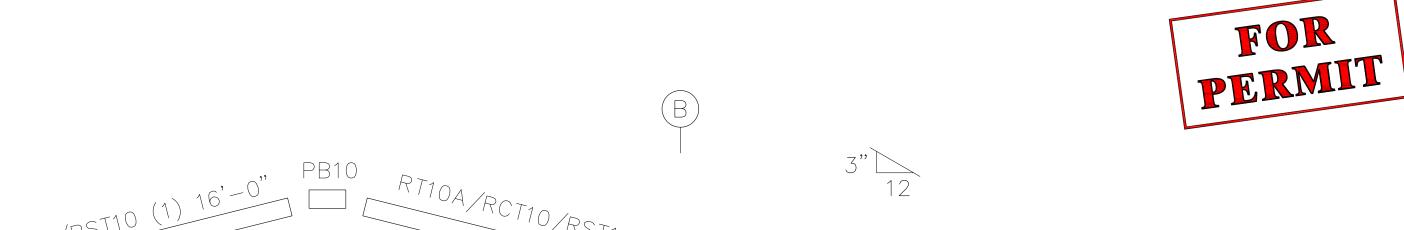
FOR THE ENGINEER OF RECORD OR THE DESIGN
PROFESSIONAL FOR THIS PROJECT. ONLY THE
DESIGN OF THE METAL BUILDING SYSTEM AS
FURNISHED BY S.N. IS INCLUDED. FOUNDATION
ANALYSIS, ELECTRICAL, AND MECHANICAL
SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY
ANYONE OTHER THAN S.N. ARE SPECIFICALLY

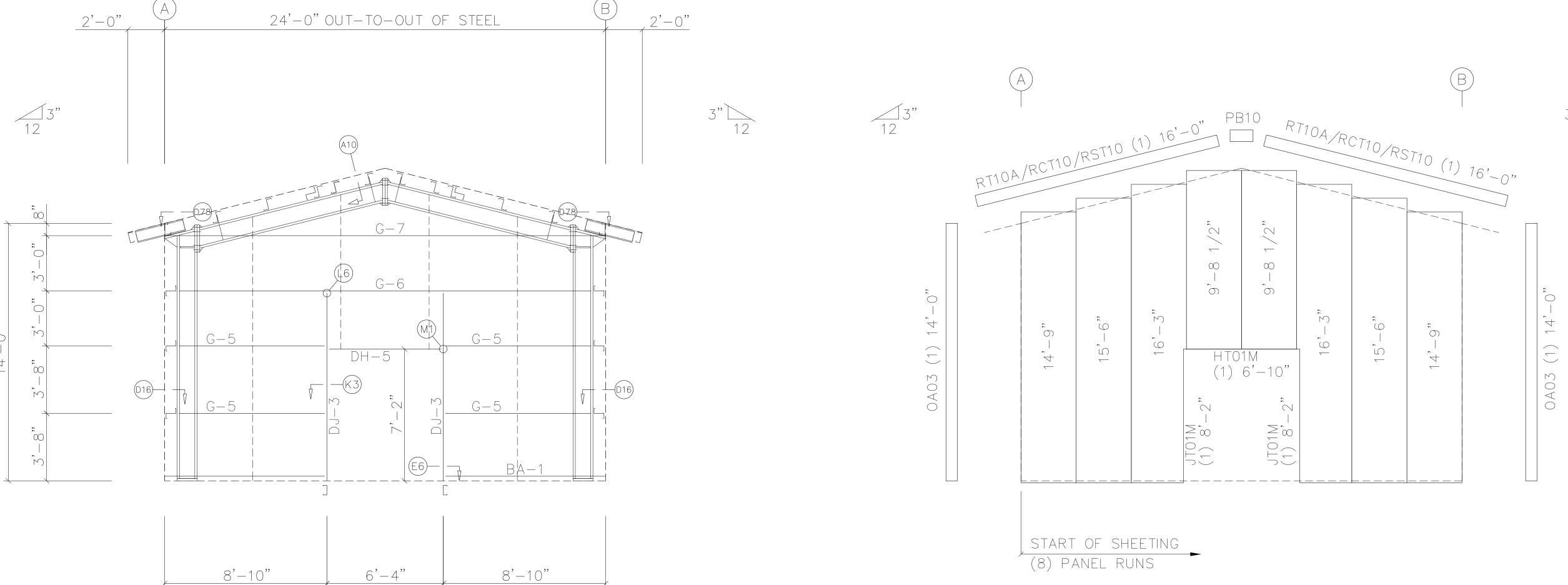
	DES.	CHK.	DRN.	DATE	DESCRIPTION	ISSUE
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	100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM	S
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/2025	VAL ENGILITIES	EXCLUD IMPLIED		ECTION OR S	UPERVIS	ION IS
DESCRIPTION	TION ENDWALL FRAMING & SHEETING ELEVATION					
CUSTOMER STEEL NATION BUILDINGS, INC.						
END USER	Columbia Gas (NiSource CG Utility Building)					
END USE	Garage Building			BUILDING	Д	١
STREET	1336 Ridgeview Road (40.014367, -83.048681)					
CITY ST ZIP	ST ZIP Upper Arlington, OH 43221					
82397	JOB NO.: 173430	)	N.T.S.	DWG. NO.: <b>E005</b>		ISSUE:

MEMBER	TABLE
FRAME L	LINE 3
MARK	PART
DJ-3	8x25C16
DH-5	8x25C16
G - 5	8x25Z16
G-6	8x25Z26
G-7	8x35Z16

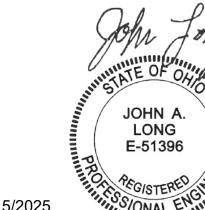




ENDWALL FRAMING: FRAME LINE 3

## ENDWALL SHEETING & TRIM: FRAME LINE 3

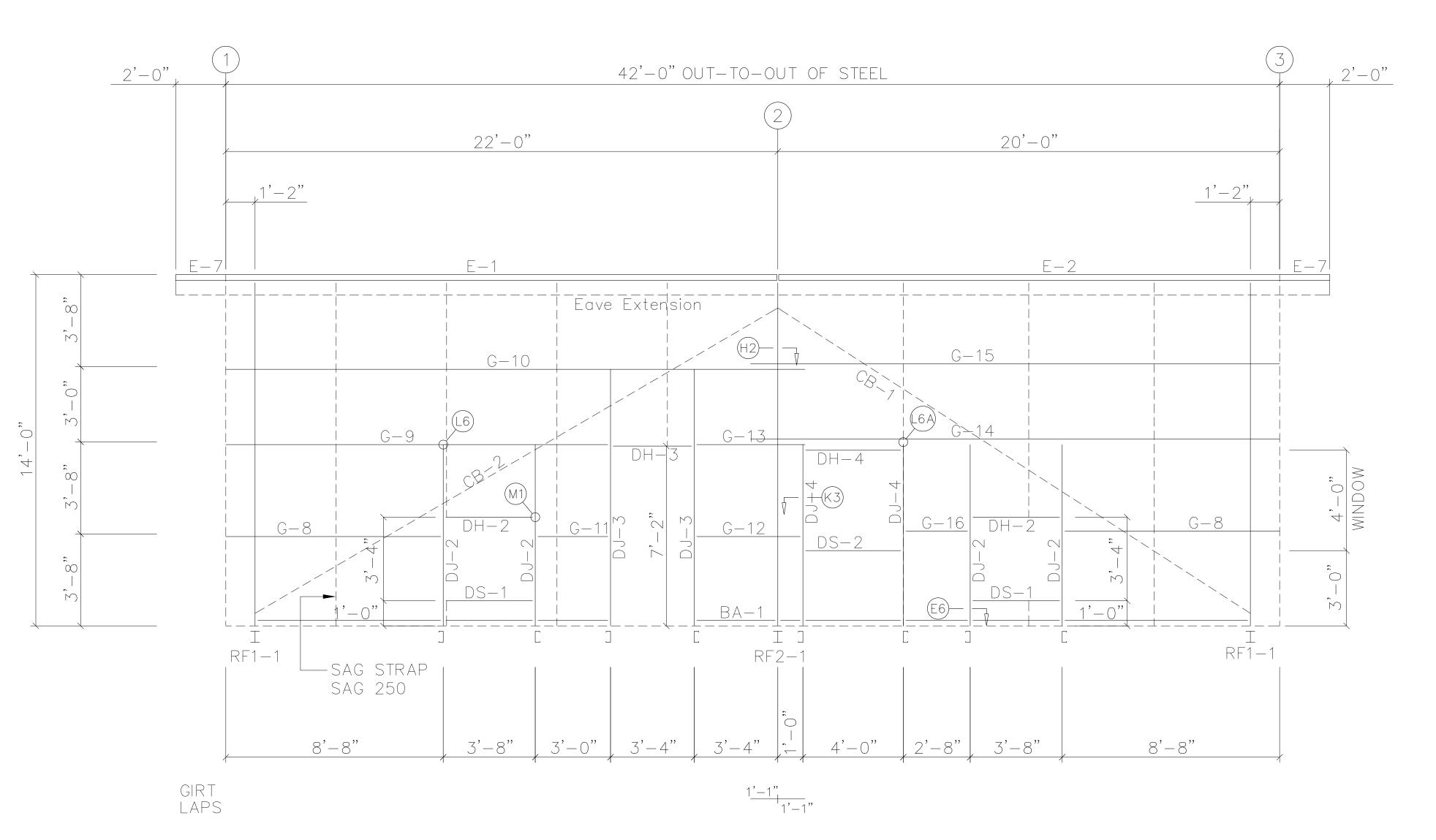
PANELS: 26 Ga. Rev. PBM — Glvm.Plus



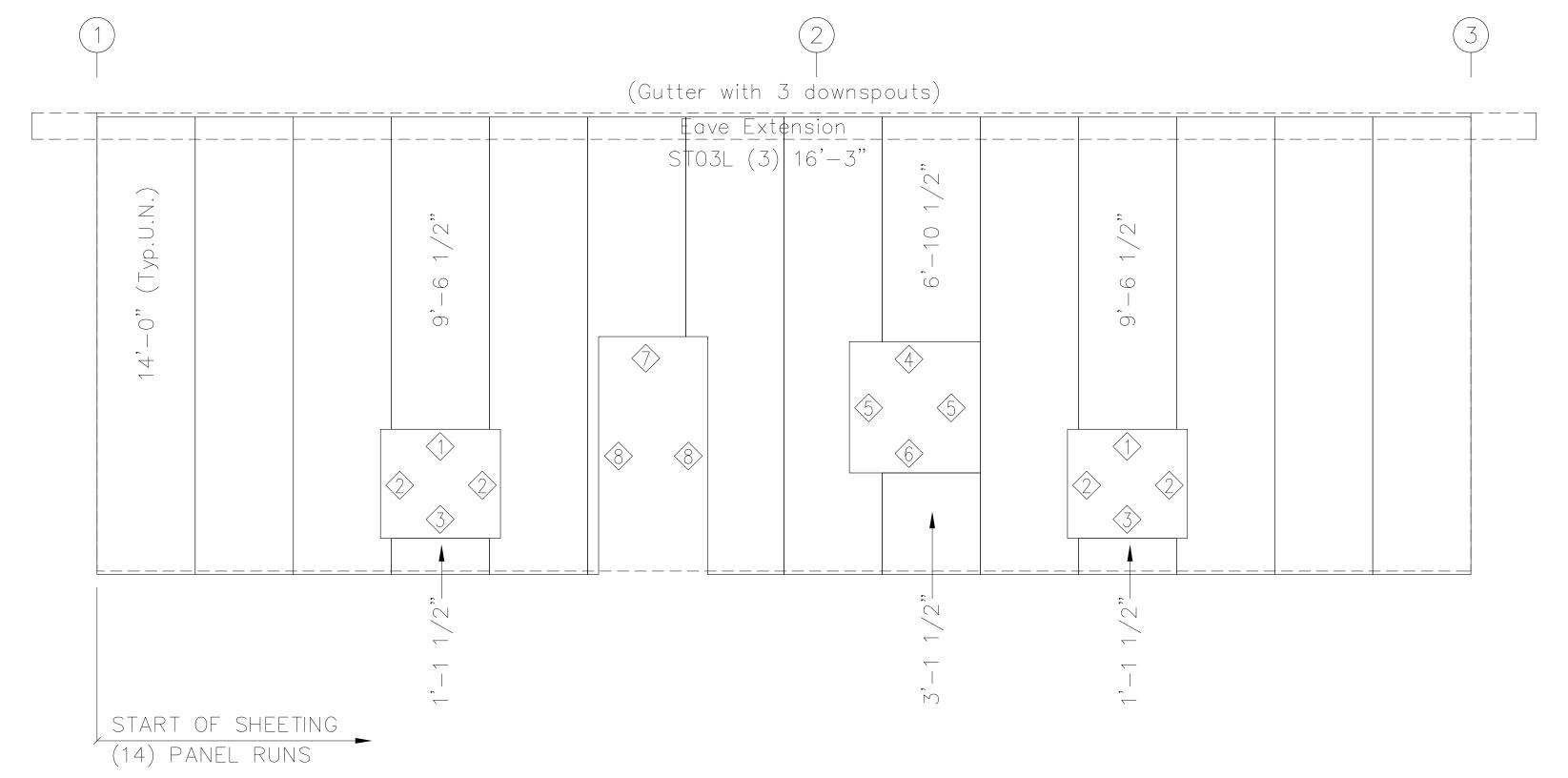
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
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	STEELNATION	Е
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	100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM	S
		C

2025	VAL	IMPLIED	•			
DESCRIPTION	ENDWALL FRAMING & SHEETING ELEVATION					
CUSTOMER	STEEL NATION BUILDINGS, INC.					
END USER	Columbia Gas (NiSource CG Utility Building)					
END USE	Garage Building			BUILDING	Α	
STREET	1336 Ridgeview Road (40.014367, -83.048681)					
CITY ST ZIP	Upper Arlington, OH 43221					
82397	JOB NO.: 17343	30	N.T.S.	DWG. NO.:	S A	





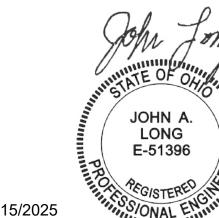


SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 Ga. Rev. PBM - Glvm.Plus



MEMBER	<u></u>
FRAME L	
MARK	PART
DJ-2	8x25C16
DJ-3	8x25C16
DJ-4	8x25C16
DH-2	8x25C16
DH-3	8x25C16
DH-4	8x4E16
	OPEN CEE
DS-1	8x25C16
DS-2	8x25C16
$\begin{bmatrix} -1 & -1 \\ E-1 \end{bmatrix}$	L8ES16
$\begin{bmatrix} -1 \\ E-2 \end{bmatrix}$	L8ES16
$\begin{bmatrix} E-7 \end{bmatrix}$	L8ES16
G-8	8x25Z16
G-9	8x25Z16
G-10	8×25Z16
G-11	8×25Z16
$\begin{bmatrix} G-12 \\ 0 \end{bmatrix}$	8x25Z16
G-13	8x25Z16
G-14	8×25Z16
G-15	8×25Z16
G-16	8x25Z16
CB-1	CB0313
CB-2	CB0313

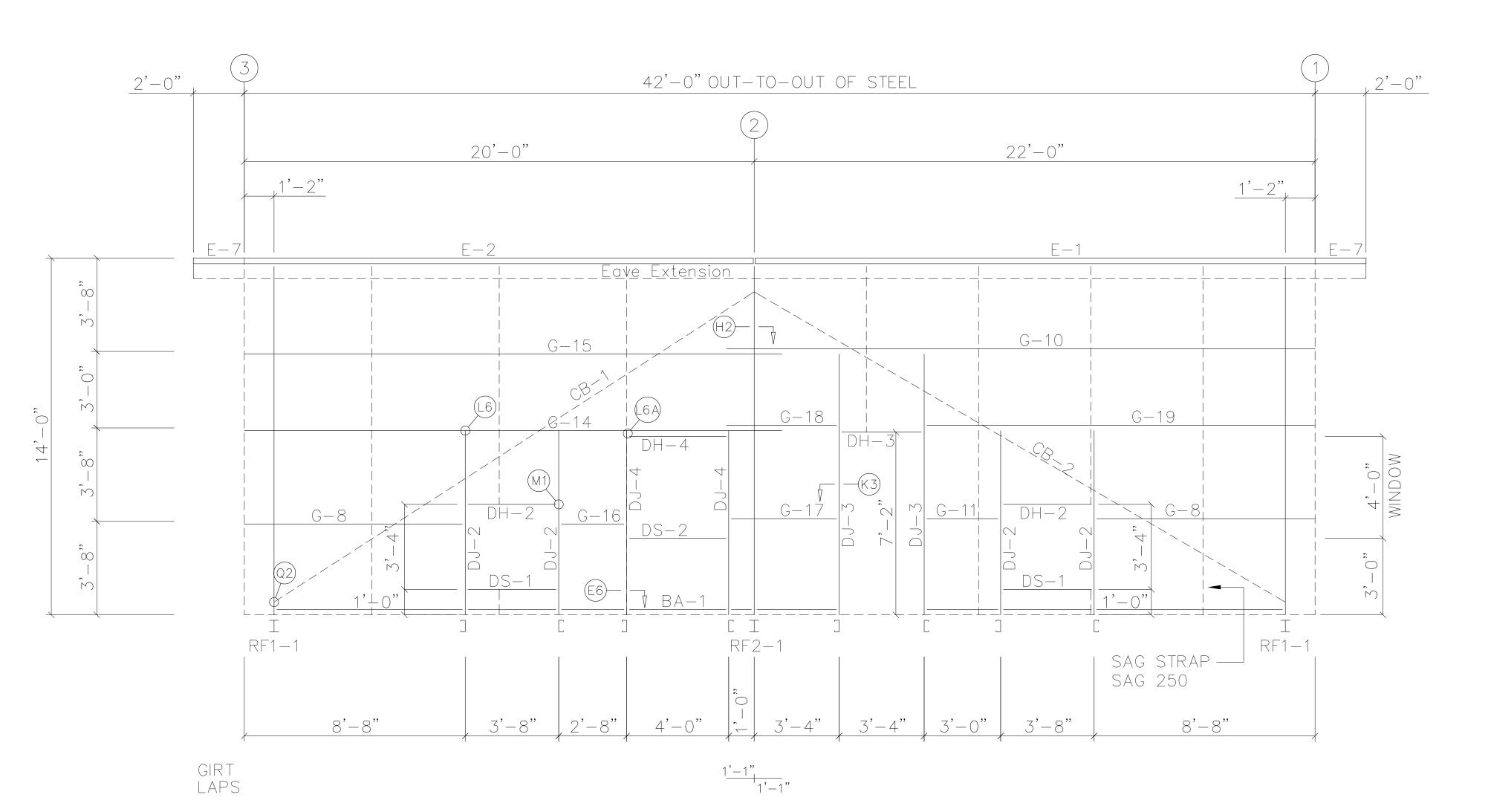
TRI	M TABLE	
FR,	AME LINE /	<u> </u>
$\Diamond ID$	MARK	LENGTH
1	HTO1M	4'-2"
2	JT01M	3'-7"
3	WS01	3'-11"
4 5	HTO1M	4'-2"
5	JT01M	3'-7"
6	WS01	3'-11"
7	HTO1M	3'-10"
8	JTO1M	7'-5"
	0101111	,



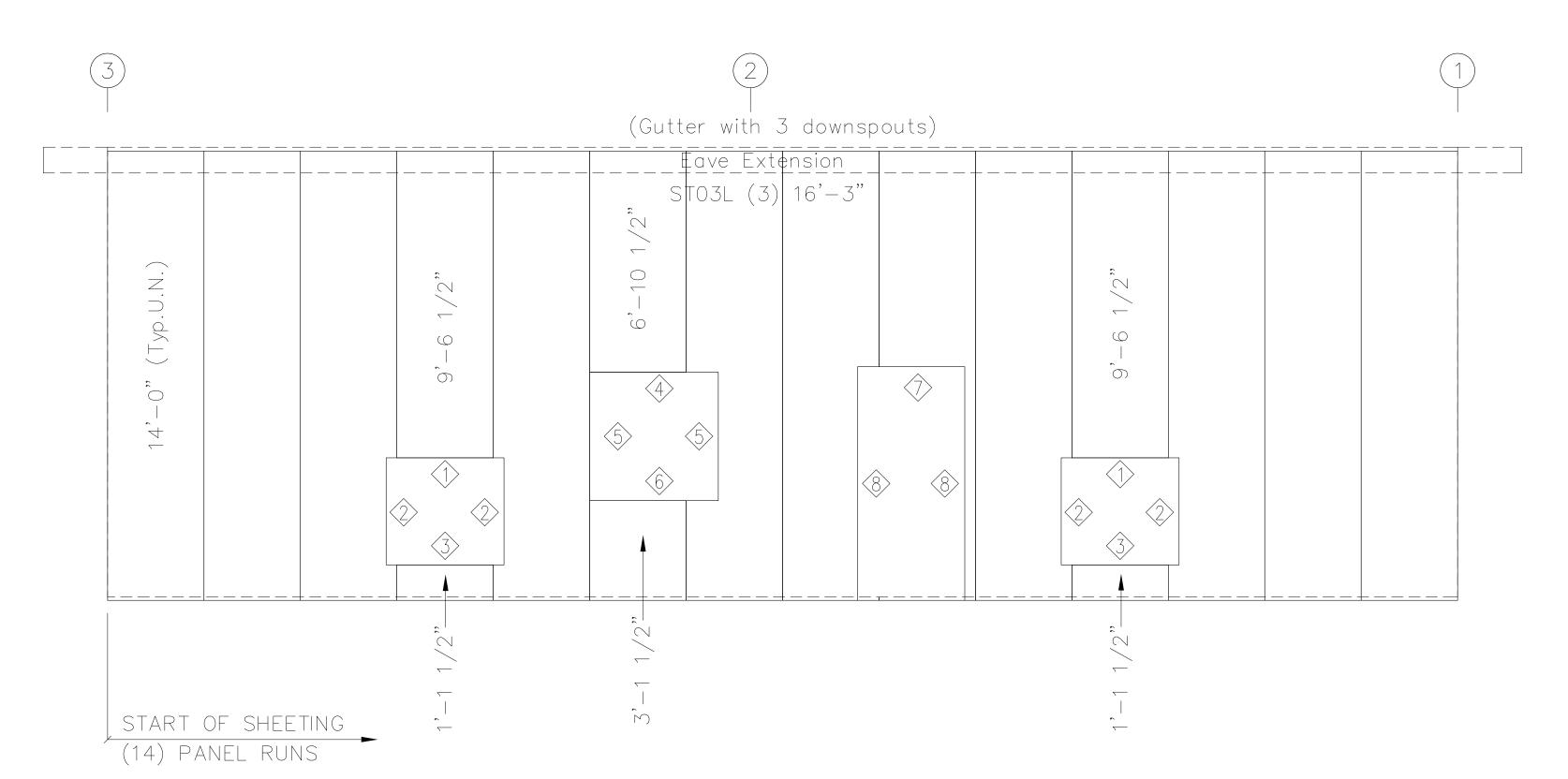
	DES.	CHK.	DRN.	DATE	DESCRIPTION	ISSUE
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	<b>A</b>	(
	STEELNATION	ı
	100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM	
		(

	2025	IMPLIED.					
	DESCRIPTION	SIDEWALL FRAMING & SHEETING ELEVATION					
	CUSTOMER	STEEL NATION BUILDINGS, INC.					
	END USER	Columbia Gas (NiSource CG Utility Building)					
	END USE	Garage Building BUILDING A					
STREET 1336 Ridgeview Road (40.014367, -83.048681)							
	CITY ST ZIP	Upper Arlington, OH 43221					
	SALES NO.: <b>82397</b>	JOB NO.: 173430 SCALE: DWG. NO.: E007 ISSUE: A					







## <u>SIDEWALL SHEETING & TRIM: FRAME LINE B</u>

PANELS: 26 Ga. Rev. PBM — Glvm.Plus

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
А	APPROVAL/PERMIT	05/15/25	ZGL	MDL	YHL	
						STEEINATK
						100 SOUTHPOINTE SQUARE LANE ♦ CANONSBUF PH: 724.225.2202 ♦ INFO@STEELNATION.



MEMBER FRAME I MARK DJ-2 DJ-3 DJ-4 DH-2 DH-3 DH-4	TABLE _INE B PART 8×25C16 8×25C16 8×25C16 8×25C16 8×25C16 8×25C16 0PEN CEE
DS-1 DS-2 E-1 E-2 E-7 G-8 G-10 G-11 G-14 G-15 G-16 G-17 G-18 G-19 CB-1 CB-2	8×25C16 8×25C16 L8ES16 L8ES16 L8ES16 8×25Z16 8×25Z16 8×25Z16 8×25Z16 8×25Z16 8×25Z16 8×25Z16 8×25Z16 8×25Z16 CBO313 CBO313

FOR PERMIT

TRI	M TABLE	
FR,	AME LINE	В
$\Diamond ID$	MARK	LENGTH
1	HTO1M	4'-2"
2	JT01M	3'-7"
3	WS01	3'-11"
4 5 6	HTO1M JTO1M WSO1	4'-2" 3'-7" 3'-11"
7 8	HTO1M JTO1M	3'-10" 7'-5"

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT STEEL NATION ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY S.N. IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN S.N. ARE SPECIFICALLY

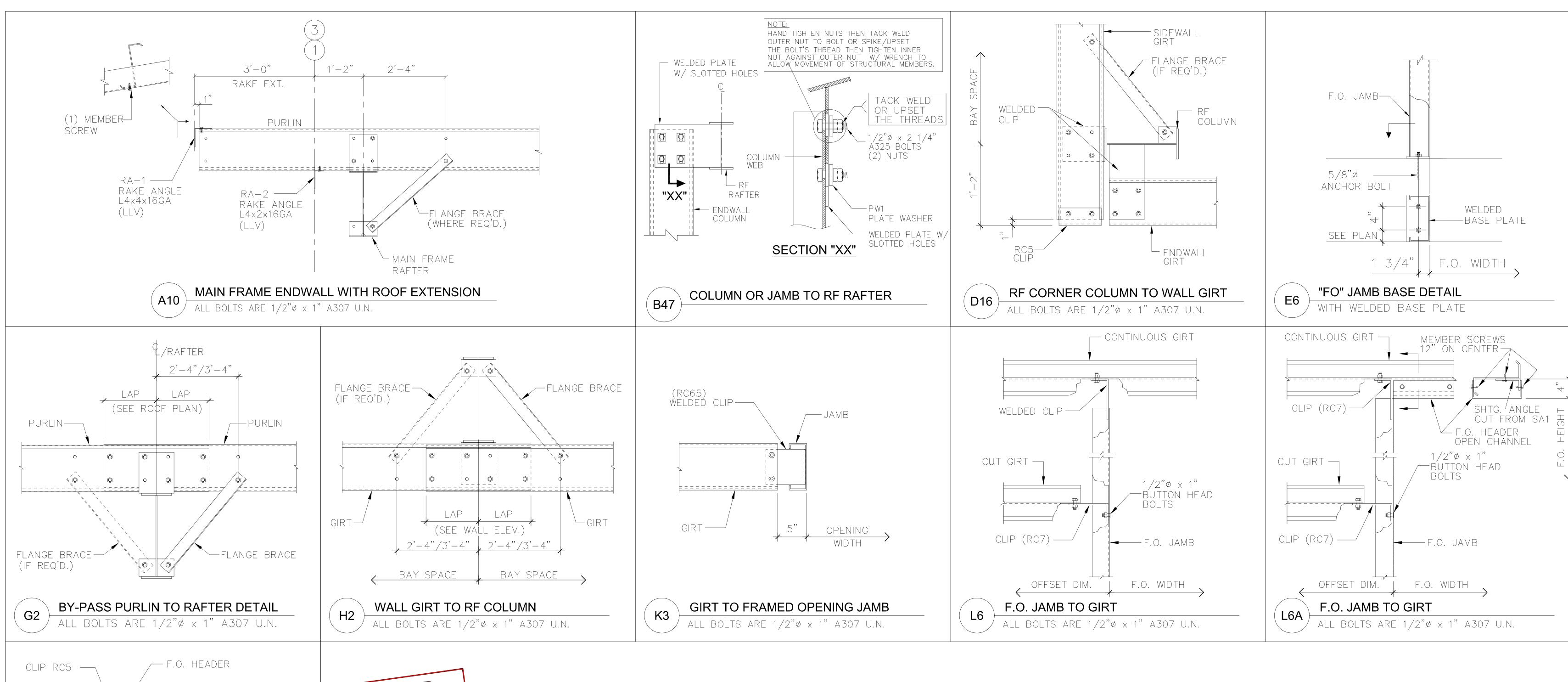
25 77,55/01	VAL ENGINE	EXCLUDED. NO INSP IMPLIED.	ECTION OR S	SUPERVISION IS			
ESCRIPTION SIDEWALL		FRAMING & SHEE	TING ELEVA	TION			
USTOMER	STEEL NA	STEEL NATION BUILDINGS, INC.					
ND USER	Columbia (	Columbia Gas (NiSource CG Utility Building)					
ND USE	Garage Building BUILDIN		BUILDING	Α			
TREET 1336 Ridg		eview Road (40.0143	67, -83.0486	81)			
ITY ST ZIP	Upper Arlington, OH 43221						

173430

N.T.S.

E008

JOHN A.





— CLIP RC5

 $1/2" \phi \times 1"$ 

F.O. WIDTH

- BUTTON HEAD BOLTS

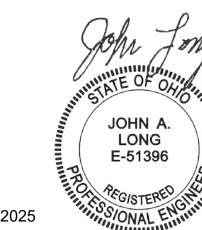
- F.O. HEADER

F.O. JAMB —

F.O. JAMB —

F.O. HEADER TO F.O. JAMB

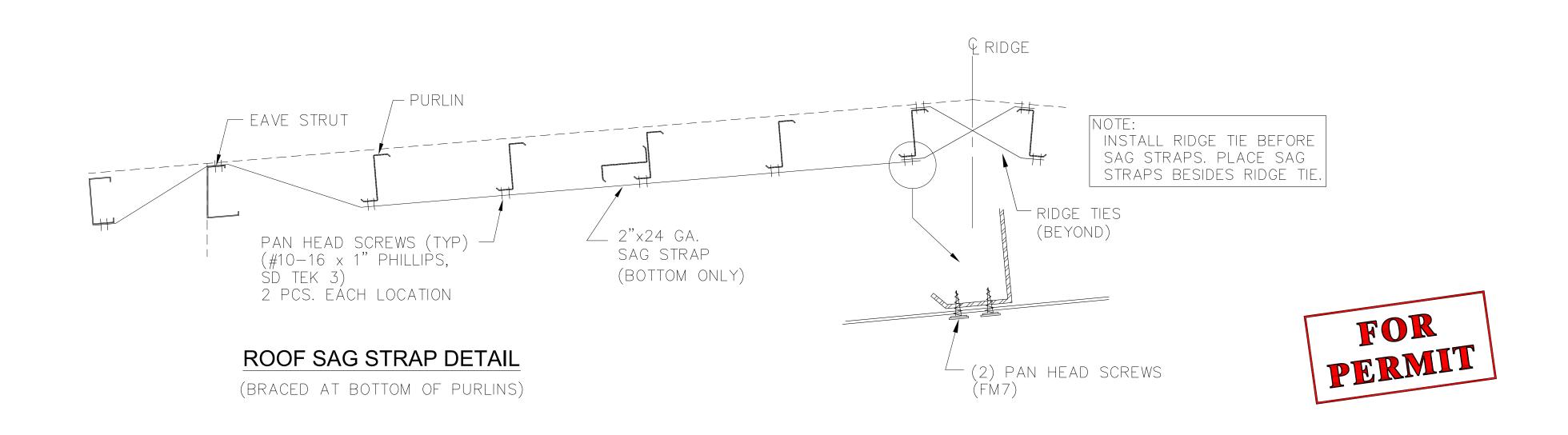
ALL BOLTS ARE 1/2"ø x 1" A307 U.N.

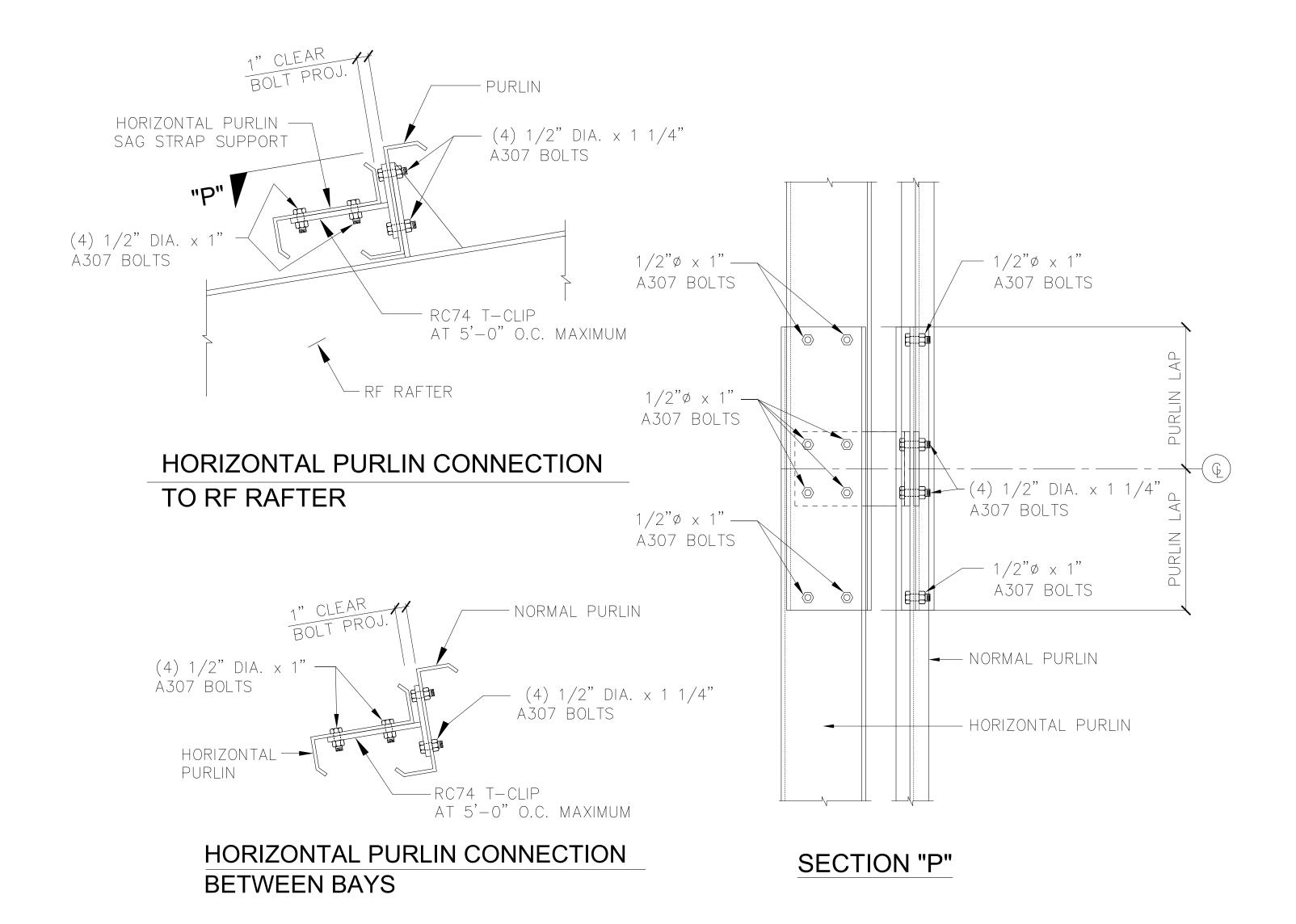


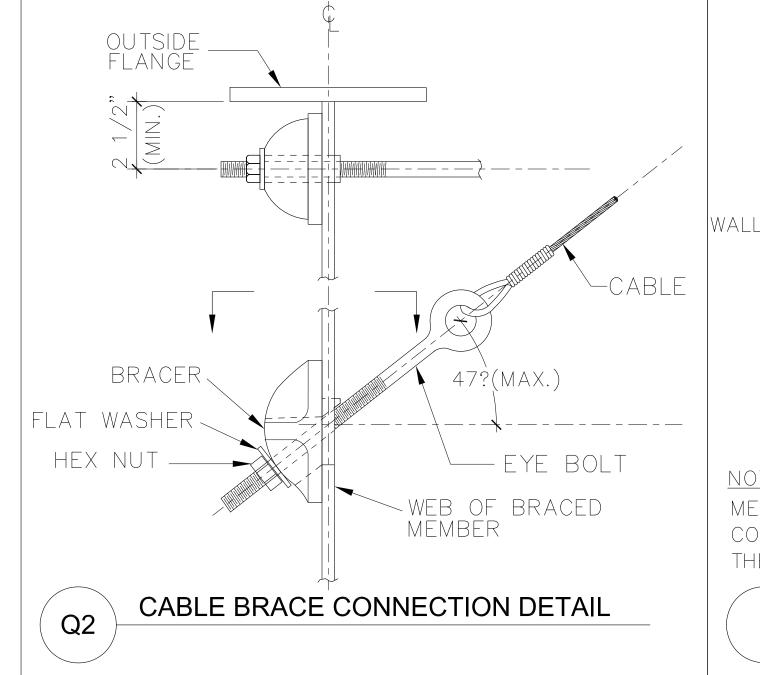
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
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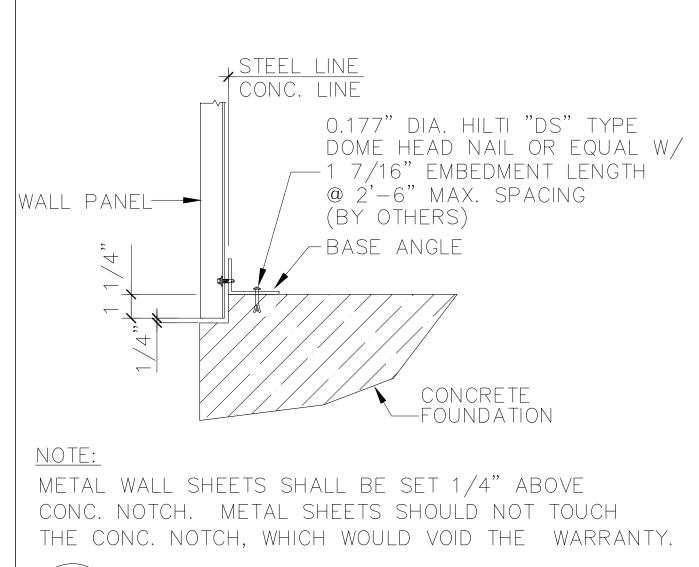
	G/ 16/	2020
		DESCRIPTIO
-	<b>.</b>	CUSTOMER
	STEEINATION	END USER
		END USE
	100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM	STREET
		CITY ST ZIP

IMPLIED.						
DESCRIPTION	DETAIL DRAWINGS					
CUSTOMER	R STEEL NATION BUILDINGS, INC.					
END USER	Columbia Gas (NiSource CG Utility Building)					
END USE	Garage Building		BUILDING	Α		
STREET 1336 Ridgeview Road (40.014367, -83.048681)				81)		
CITY ST ZIP	Upper Arlington, OH 43221					
82397	JOB NO.: 173430	N.T.S.	DWG. NO.: <b>E009</b>	) A		









DETAIL BASE w/ NOTCH

ID 1303-R0; T3\_NOTCH; NO TRIM-ANGLE-NOTCH

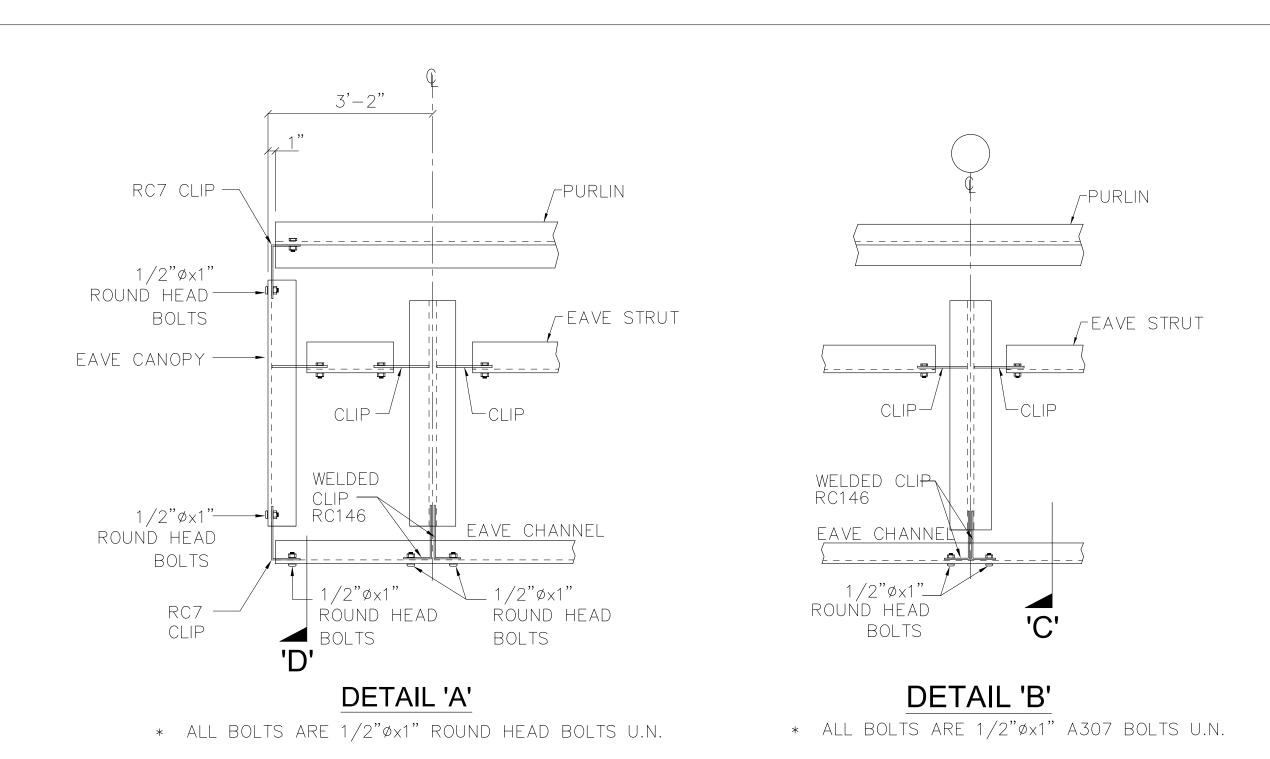
JOHN A. LONG E-51396

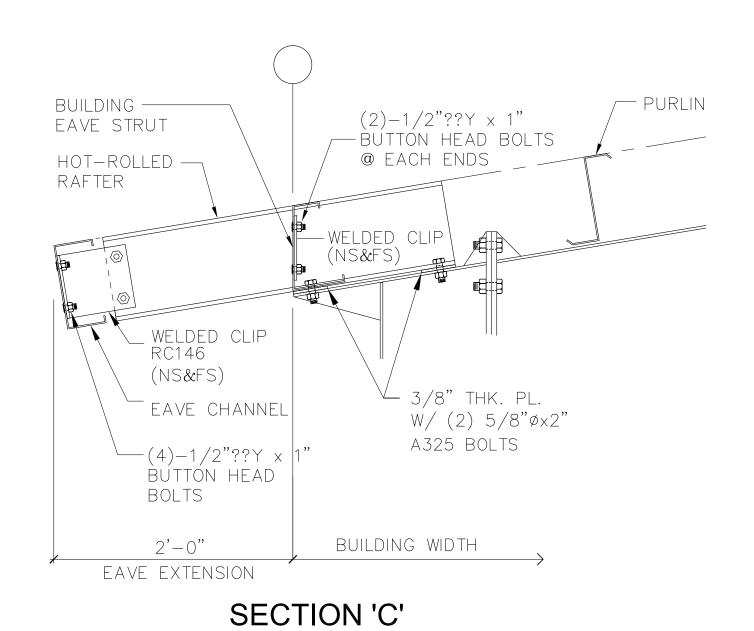
5/15/2025

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00 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM	ST
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J,	2025	VAL	IMPLIED	•					
	DESCRIPTION	DETAIL DRAWINGS							
	CUSTOMER	STEEL NATION BUILDINGS, INC.							
	END USER	Columbia Gas (NiSource CG Utility Building)							
	END USE	Garage Bu	ilding		BUILDING	Α			
	STREET	1336 Ridgeview Road (40.014367, -83.048681)							
	CITY ST ZIP	Upper Arlington, OH 43221							
	SALES NO.: 82397	JOB NO.: 17343	30	N.T.S.	DWG. NO.: <b>E010</b>	ISSUE:			





HOT-ROLLED EAVE EXTENSION DETAIL

ALL BOLTS ARE 1/2"ø x 1" A307 U.N.





BUILDING WIDTH

RC126L/R CLIP

BUILDING ——

EAVE STRUT

8x35C16 — RAFTER

RC7 CLIP (NS)

2'-0"

EAVE EXTENSION

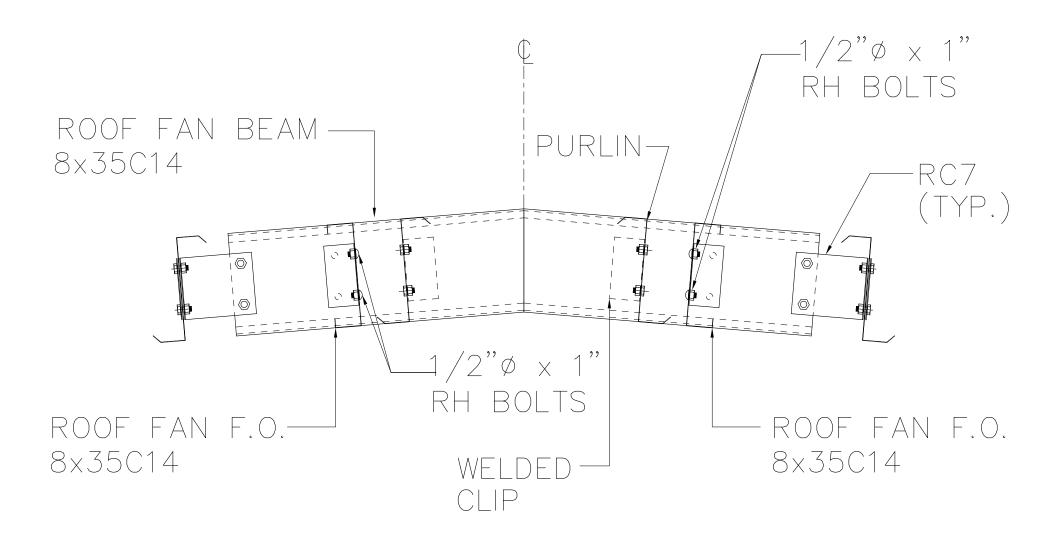
EAVE CHANNEL

/ PURLIN

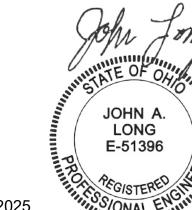
∟RC7 CLIP

(NS)

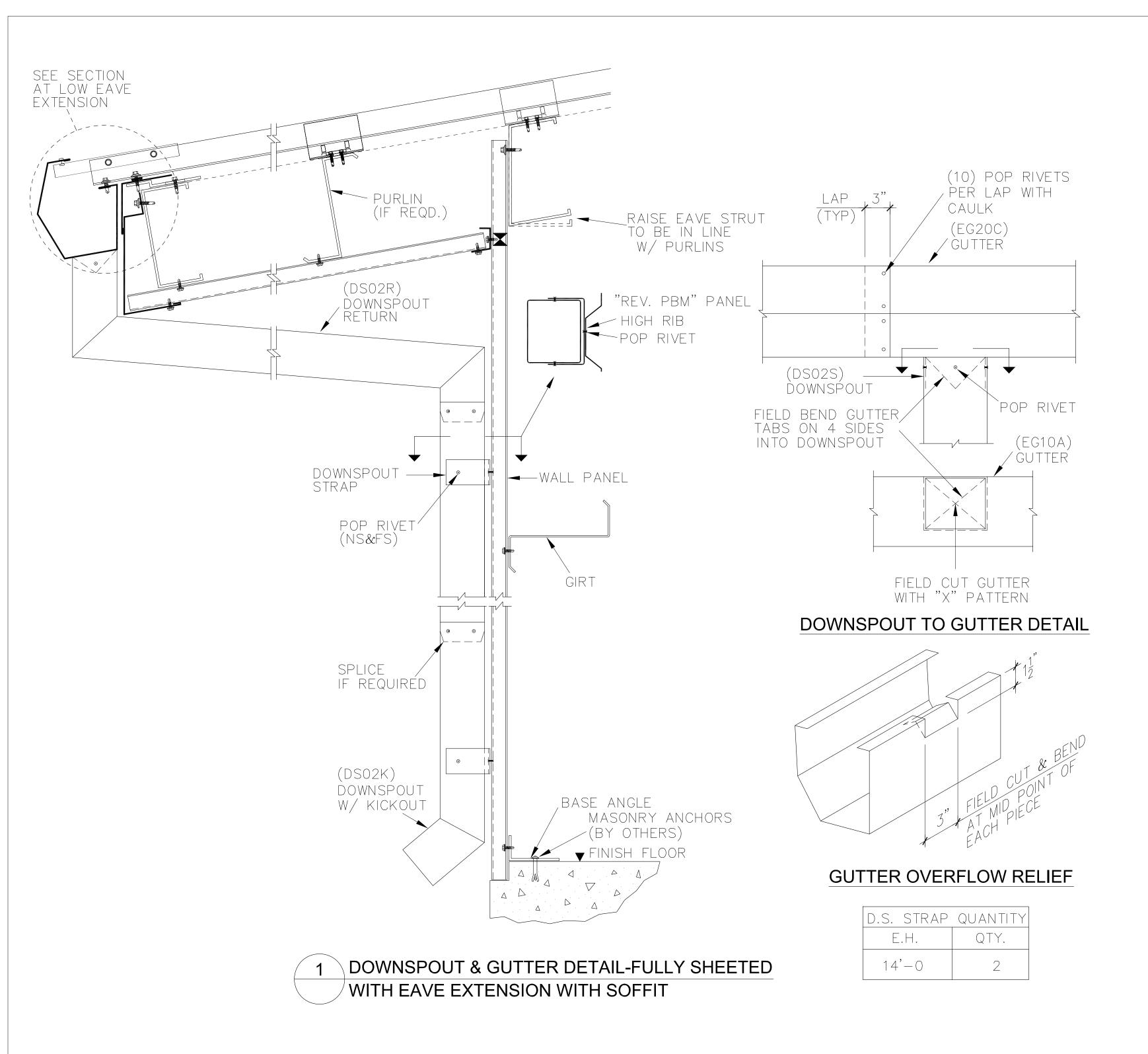
>-(2)-1/2"??Y x 1" A307 BOLTS

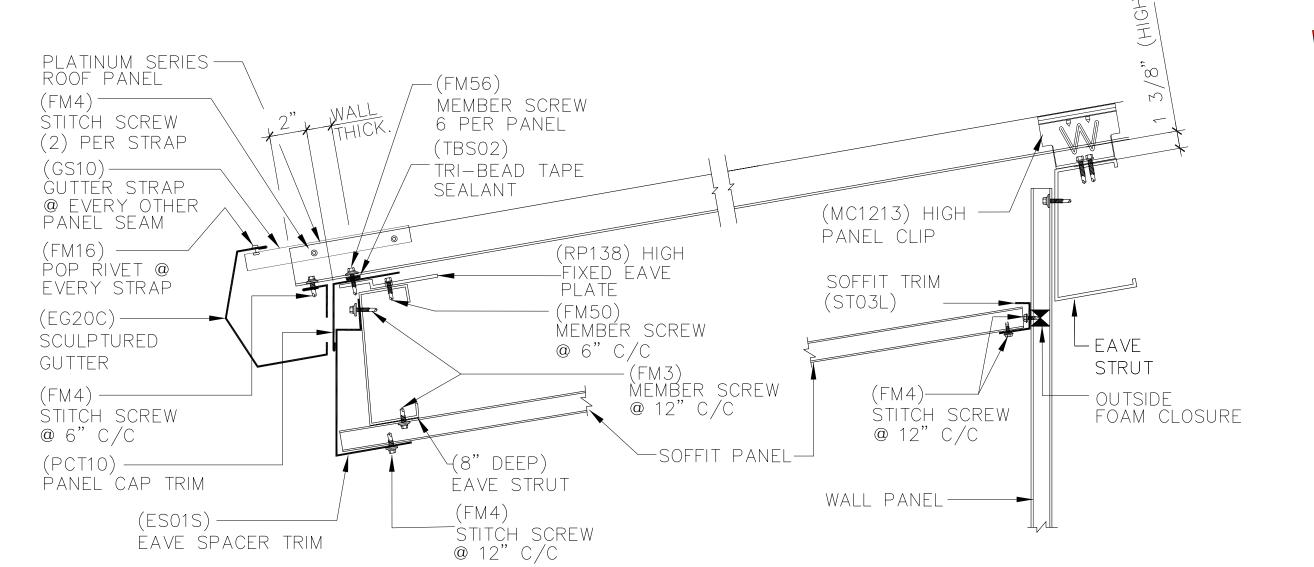


SECTION "1R"



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A APPROVAL/PERMIT	05/15/25	ZGL	MDL	YHL	<b>A</b>	CUSTOMER	STEEL NATION BUILDINGS, INC. Columbia Gas (NiSource CG Utility Building)			
					STEELNATION	END USER				
						END USE	Garage Building		BUILDING	Α
					100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM	STREET	1336 Ridgeview Roa	ad (40.0143	67, -83.048681)	
						CITY ST ZIP	Upper Arlington, OH			_
						82397	173430 s	N.T.S.	E011	ISSUE:







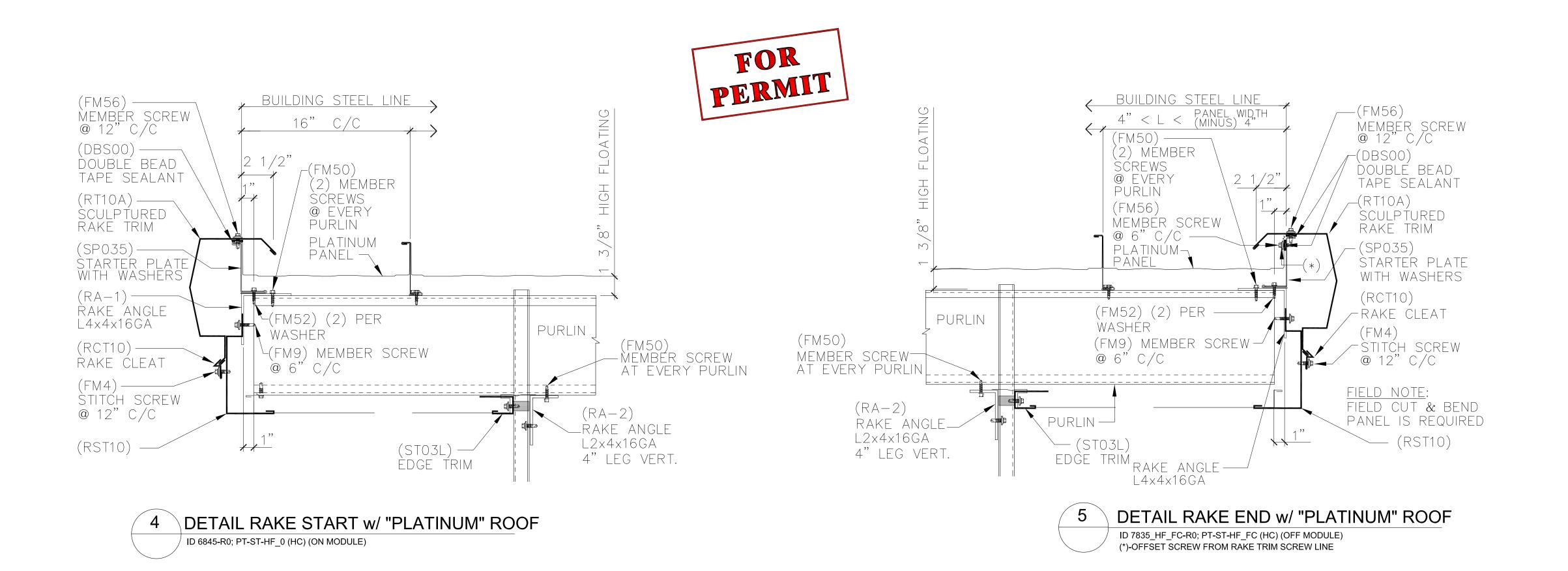
DETAIL LOW EAVE EXT. w/ GUTTER w/ "PLATINUM" ROOF

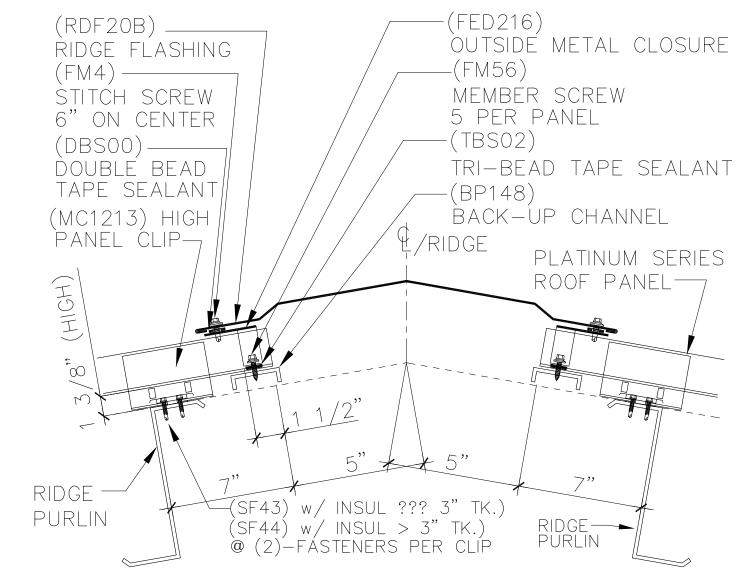
ID 4872\_HF\_SF-R1; ST/LG-8-HF-3 (LOW EAVE EXT w/ GUTTER)



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D		DES.	CHK.	DRN.	DATE	DESCRIPTION	JΕ
С	<b>A</b>	YHL	MDL	ZGL	05/15/25	APPROVAL/PERMIT	
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Е							
S	100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM						
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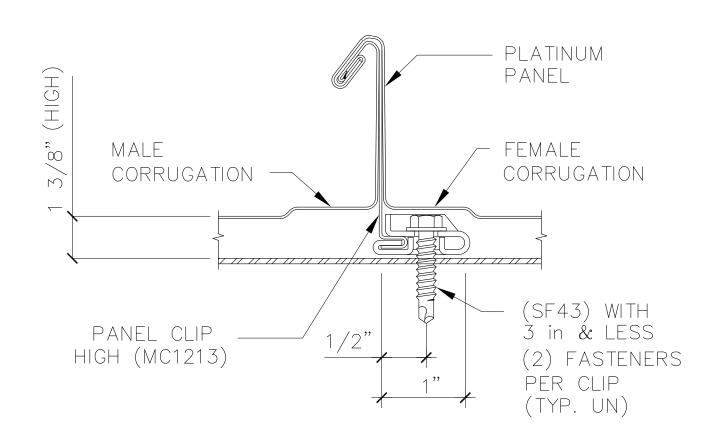
15/	2025	VALE	IMPLIED.			0. 2				
	DESCRIPTION	DETAIL DF	RAWING	S						
	CUSTOMER	STEEL NA	STEEL NATION BUILDINGS, INC.							
END USER Columbia Gas (NiSource CG Utility Building)										
	END USE	Garage Bui	ilding		BUILDING	P	4			
STREET 1336 Ridgeview Road (40.014367, -83.048681)  CITY ST ZIP Upper Arlington, OH 43221										
									82397	N.T.S.



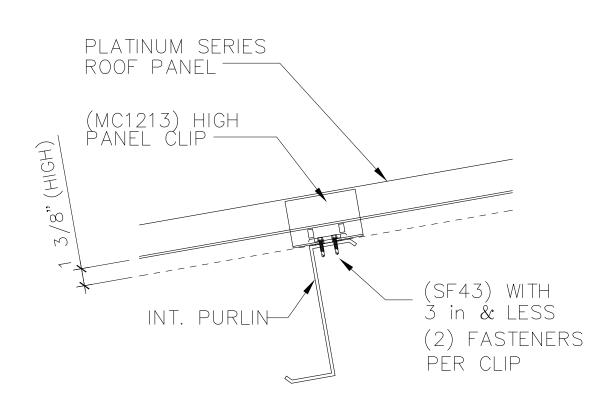


3 DETAIL PEAK w/ "PLATINUM" ROOF

ID 2906\_HF-R0; PS-HF-6 (RIDGE OUT FOR GABLE)



QUAD-LOK SEAM WITH FLOATING CLIP

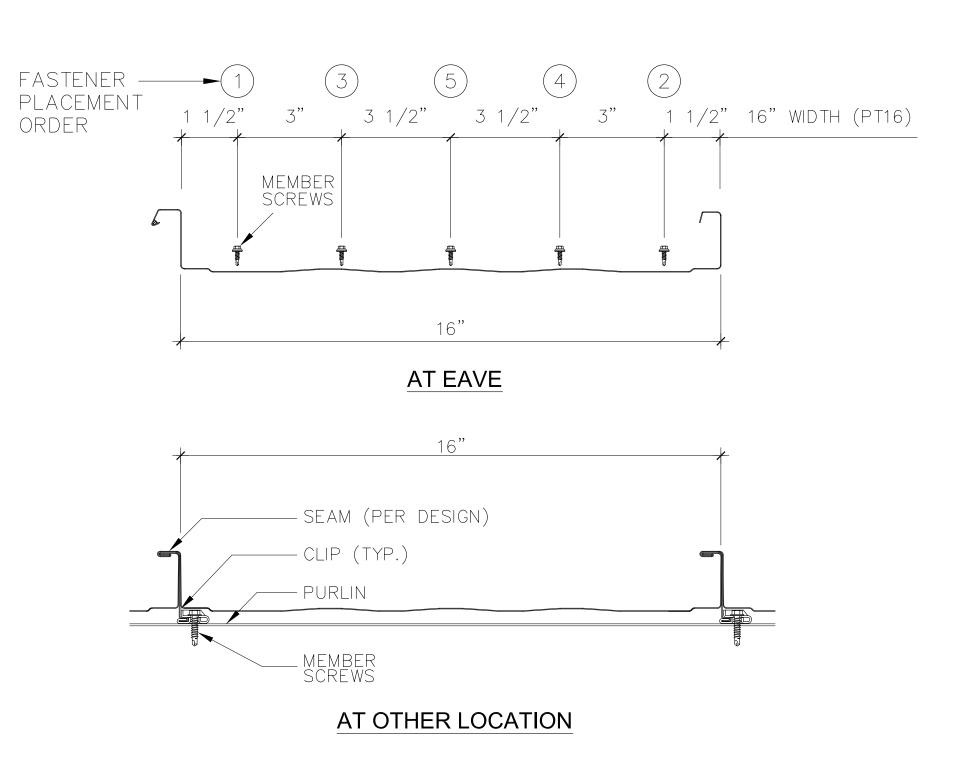


SECTION THRU INTERIOR PURLIN - FLOATING STANDARD CLIP

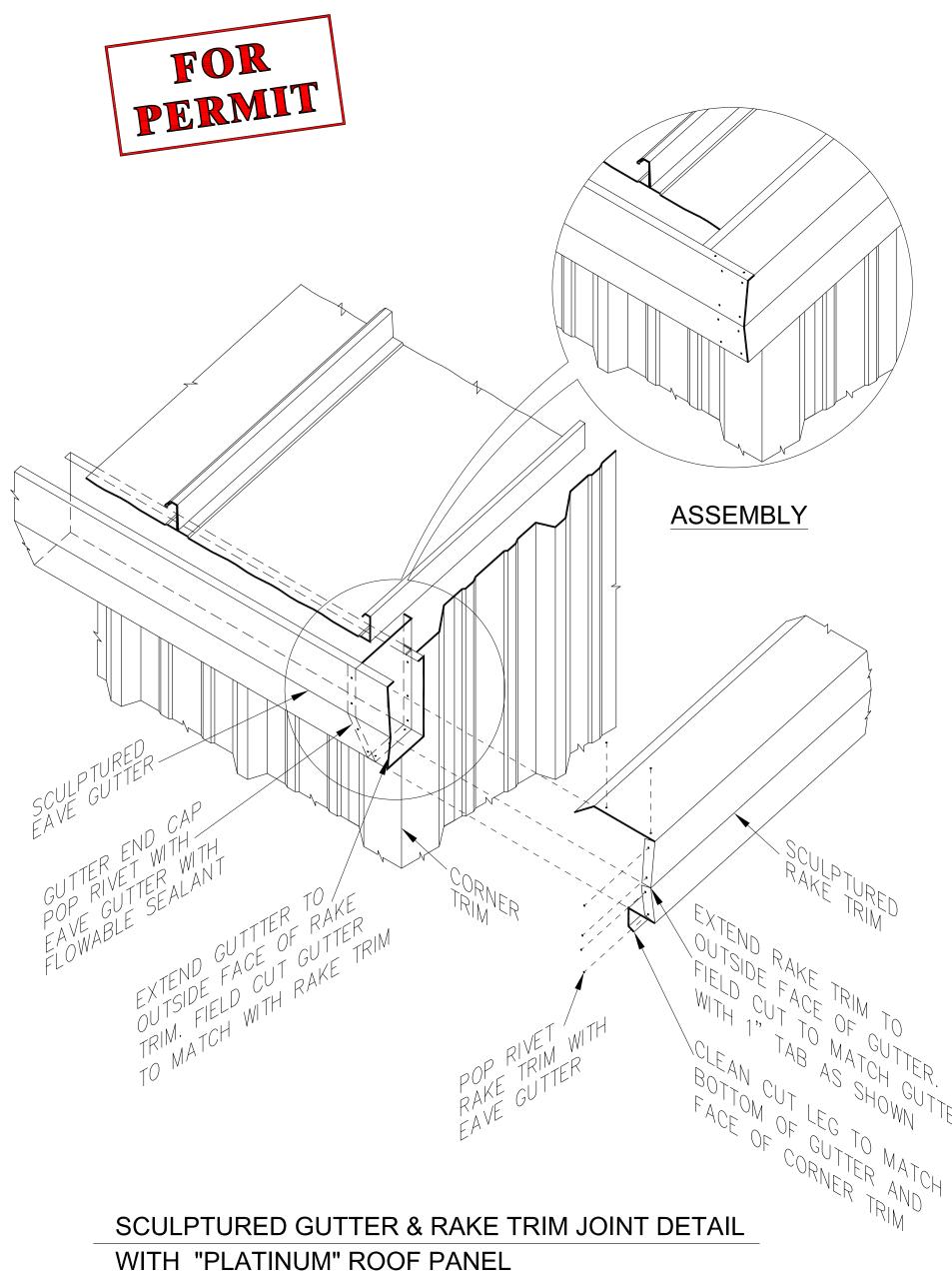


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	DES.	CHK.	DRN.	DATE	DESCRIPTION	UE
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STEELNATION						
100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM						

5/	2025	VAL ENGIN	IMPLIED		ECTION OR S	OPERVISION IS				
	DESCRIPTION	DETAIL DE	RAWING	S						
	CUSTOMER	STEEL NA	STEEL NATION BUILDINGS, INC.							
	END USE	Garage Bu	ilding		BUILDING	Α				
STREET 1336 Ridgeview Road (40.014367, -83.048681						81)				
CITY ST ZIP Upper Arlington, OH 43221										
	82397	лов NO.: 17343	30	N.T.S.	DWG. NO.: <b>E013</b>	S A				



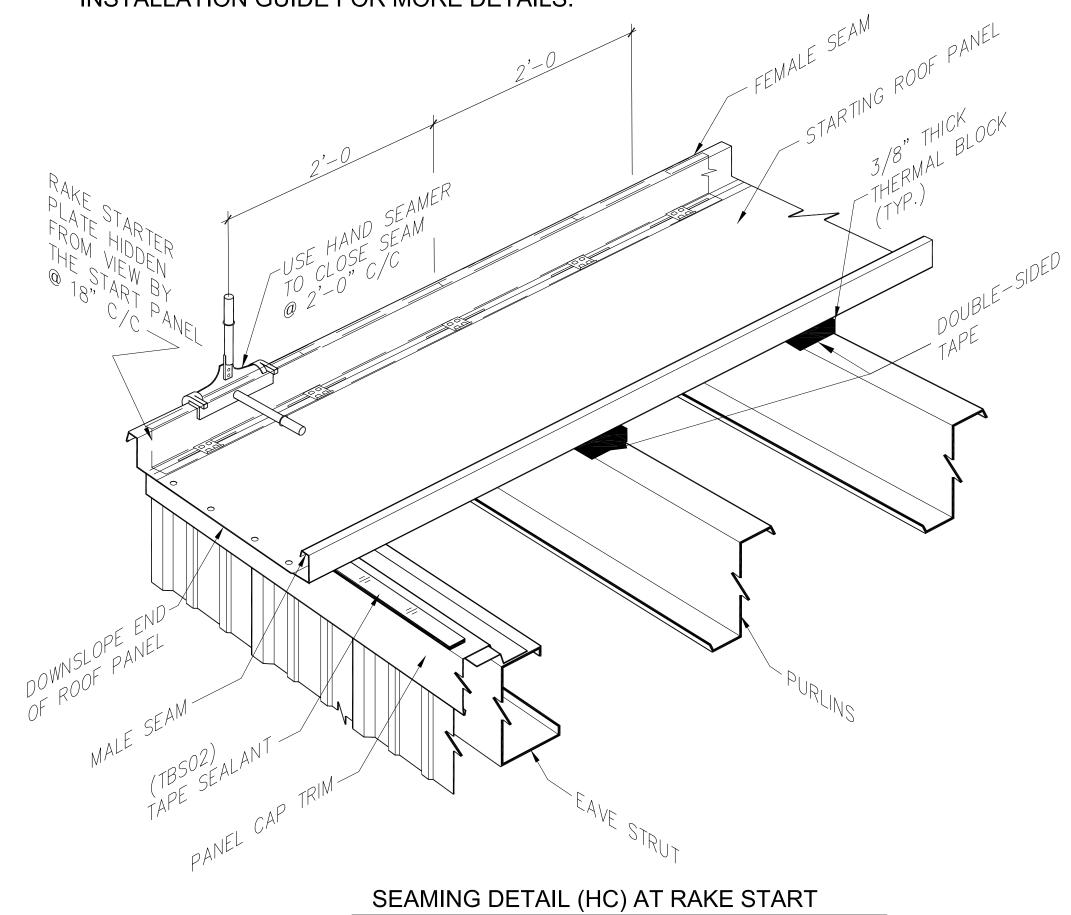
PLATINUM PANEL FASTENER LOCATION



NOTE:

SEAM STARTING ROOF PANEL WITH MANUAL SEAMING TOOL AT RAKE STARTER PLATE (2'-0" C/C).

\* REFER TO SECTION 9.3.4 OF THE PLATINUM ROOF SYSTEM INSTALLATION GUIDE FOR MORE DETAILS.

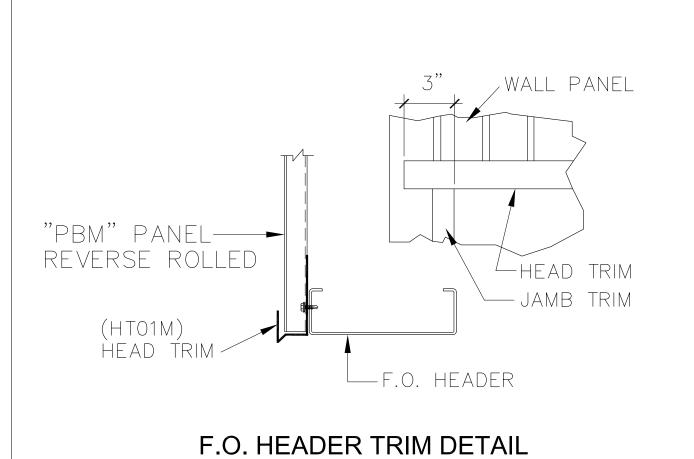


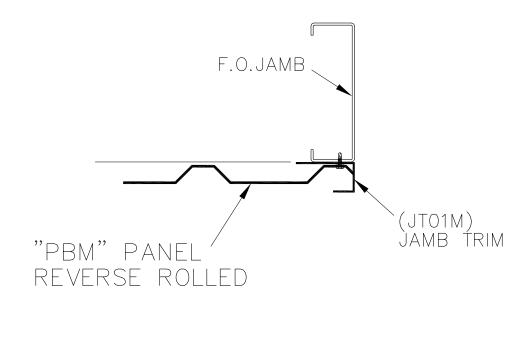
WITH "PLATINUM" STARTING ROOF PANEL

JOHN A. LONG E-51396

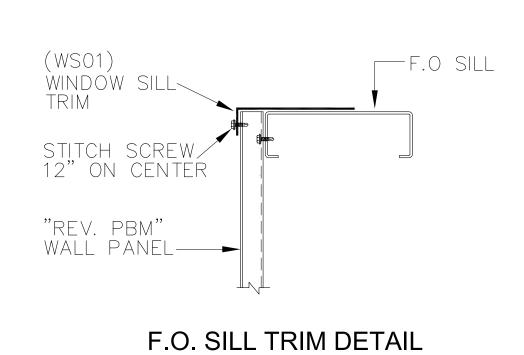
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.		DESC
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						STEELNATION	END U
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						100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM	STREE
							CITY S

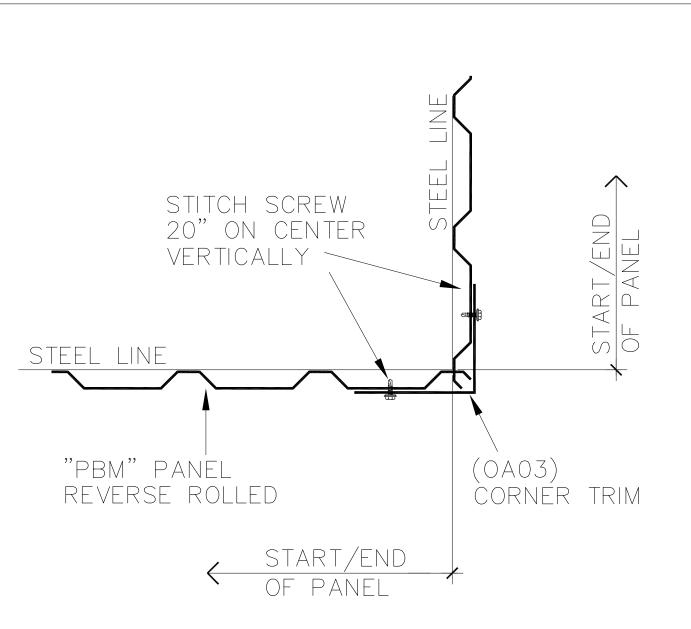
5/	2025	VAL ENGIN	IMPLIED.		ECTION ON 3	OPERVISION IS				
	DESCRIPTION	DETAIL DE	S							
	CUSTOMER	STEEL NA	STEEL NATION BUILDINGS, INC.							
END USER Columbia Gas (NiSource CG Utility Building)										
	END USE	Garage Bu	ilding		BUILDING	Α				
STREET         1336 Ridgeview Road (40.014367, -83.048681)           CITY ST ZIP         Upper Arlington, OH 43221										
								82397	ов NO.: 17343	30





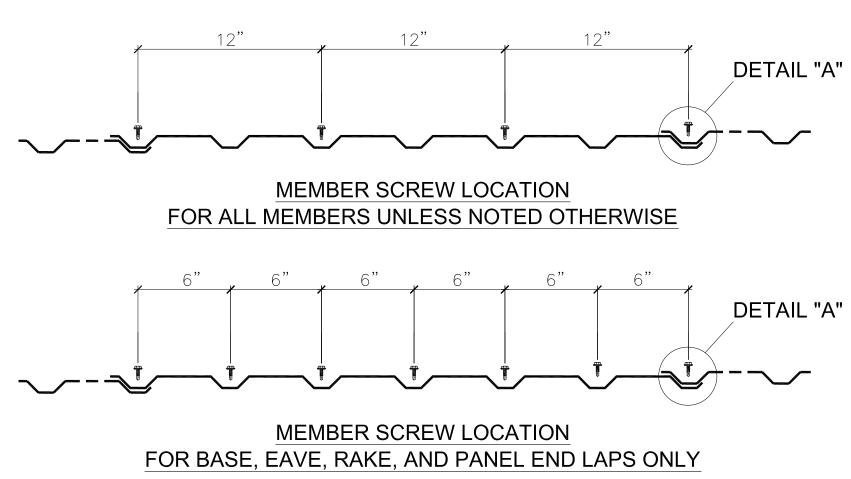
F.O. JAMB TRIM DETAIL

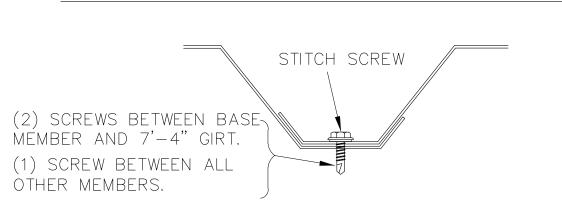






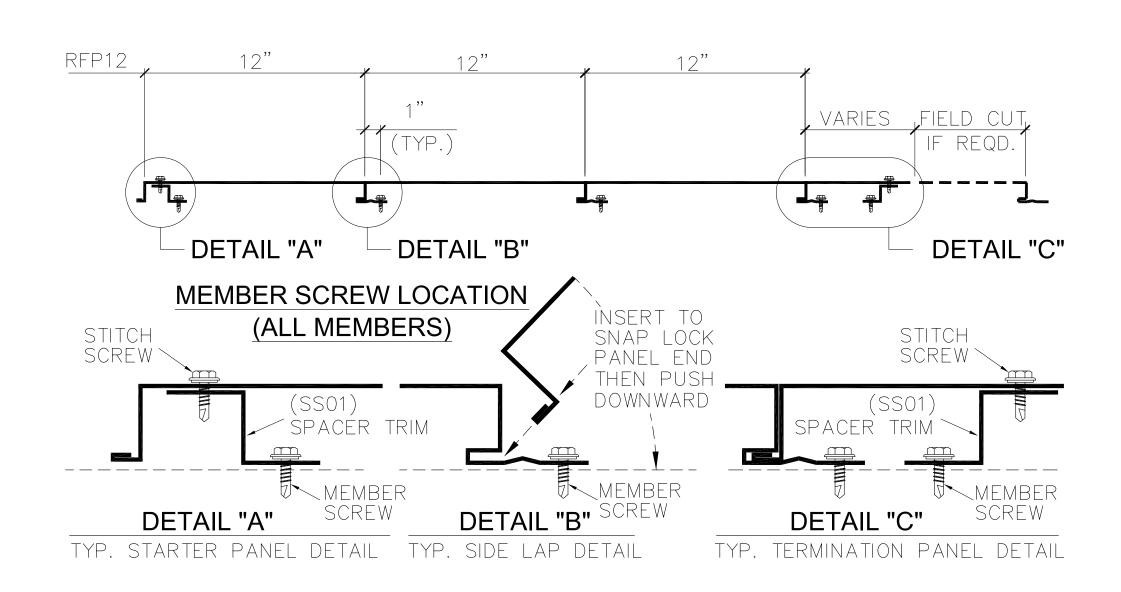
OUTSIDE CORNER DETAIL
ON MODULE





DETAIL "A"
TYP. SIDE LAP DETAIL

"M" AND "PBM" WALL PANEL SCREW LAYOUT
REVERSE ROLLED



"RFP12" RIGID FLAT PANEL (SOFFIT) SCREW LAYOUT



DESCF		DES.	CHK.	DRN.	DATE	DESCRIPTION	SSUE
CUSTO		YHL	MDL	ZGL	05/15/25	APPROVAL/PERMIT	А
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END U							
100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM							
CITY S							
SALES NO.:	1						

IJ/	2025	VAL	IMPLIED.							
	DESCRIPTION	DETAIL DE	DETAIL DRAWINGS							
	CUSTOMER	STEEL NATION BUILDINGS, INC.								
	END USER	Columbia Gas (NiSource CG Utility Building)								
	END USE	Garage Bu	ilding		BUILDING	Α				
	STREET	1336 Ridgeview Road (40.014367, -83.048681)								
	CITY ST ZIP	Upper Arlington, OH 43221								
	82397	JOB NO.: 17343	30	N.T.S.	DWG. NO.: <b>E015</b>	A ISSUE:				

GENERAL NOTES: 1) THE <u>ANCHOR BOLT DETAILS</u> SHOWN ON THIS DRAWING LOCATE THE ANCHOR BOLTS IN REFERENCE TO BOTH THE BUILDING STEEL LINE AND 2.) THE <u>ANCHOR BOLT SETTING PLAN</u> LOCATES ANCHOR BOLTS IN REFERENCE TO THE OUTSIDE OF THE PANEL RECESS SHOWN. IF THE ACTUAL PANEL RECESS IS DIFFERENT FROM WHAT IS SHOWN ON THE ANCHOR BOLT SETTING PLAN, THEN ALL REFERENCE DIMENSIONS FROM THE OUTSIDE OF THE PANEL RECESS MUST BE DETERMINED BY THE CUSTOMER. (3.) BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION.

(UNLESS NOTED)

QTY. SYI THE OUTSIDE OF STEEL NATION'S <u>Suggested</u> panel recess of 1-1/2" ONLY ANCHOR BOLTS SETTING PLAN ISSUED & STAMPED "FOR CONSTRUCTION" SHALL BE USED IN SETTING ANCHOR BOLTS. 'STEEL NATION BUILDINGS' SHALL NOT BE RESPON— SIBLE FOR ERROR OR DISCREPANCY IF THE DRAWING USED IS NOT VALID FOR CONSTRUCTION.

/MBOL	DIA.	PROJ.	ANCHOR BOLT D	ETAIL
<del>+</del>	1/2"	1"	ANCHOR BOLT PROJECTION	DETAIL OF ANCHO
<b>+</b>	5/8"	2"	"PROJ." IS MEASURED FROM	BOLT AS PER THE
<del>-</del>	3/4"	2 1/2"	BOTTOM OF BASE PLATE	SUPPLIER
<del>-</del>	7/8"	2 3/4"		
<del>-</del>	1"	3"	LENGHT OF "PROJ." SHOWN IS	NUTS & WASHERS
$\oplus$	1 1/8"	3 1/2"	FOR ONE NUT + ONE WASHER	BY SUPPLIER
$\oplus$	1 1/2"	3 1/2"	ANCHOR BOLTS NOT BY STEEL NA	TION BUILDINGS, INC.

05/15/25 ZGL MDL YHL A APPROVAL/PERMIT

ISSUE DESCRIPTION

DATE DRN. CHK. DES. **STEED**NATI**O**N 100 SOUTHPOINTE SQUARE LANE ♦ CANONSBURG, PA 15317 PH: 724.225.2202 ♦ INFO@STEELNATION.COM

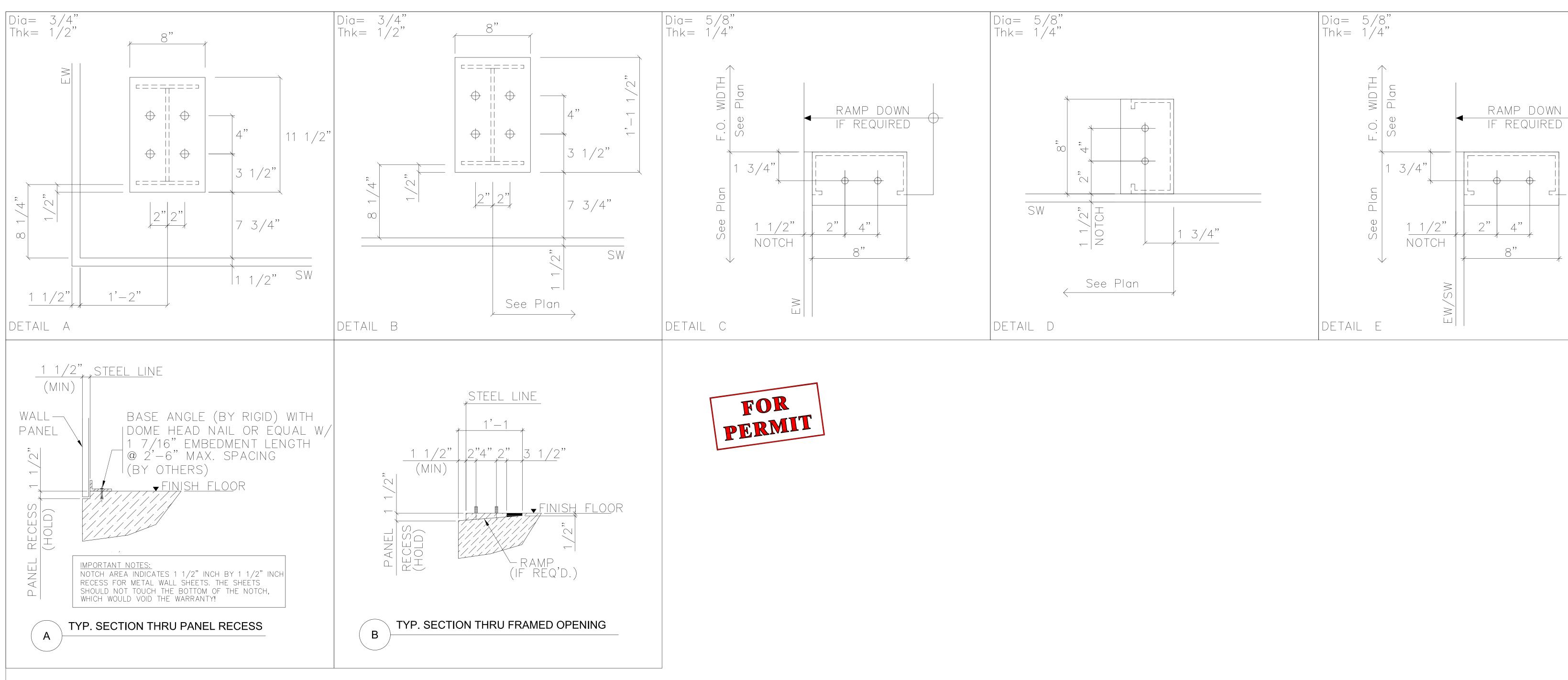
5/15/2025 DESCRIPTION | COLUMN LAYOUT PLAN CUSTOMER STEEL NATION BUILDINGS, INC. END USER Columbia Gas (NiSource CG Utility Building) END USE Garage Building BUILDING 1336 Ridgeview Road (40.014367, -83.048681) STREET Upper Arlington, OH 43221 N.T.S. 82397 173430 F001

JOHN A. LONG E-51396

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT STEEL NATION ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY S.N. IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL ANYONE OTHER PARTS SUPPLIED BY ANYONE OTHER THAN S.N. ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY

COLUMN LAYOUT PLAN NOTE: All Base Plates @ 100'-0" (U.N.)

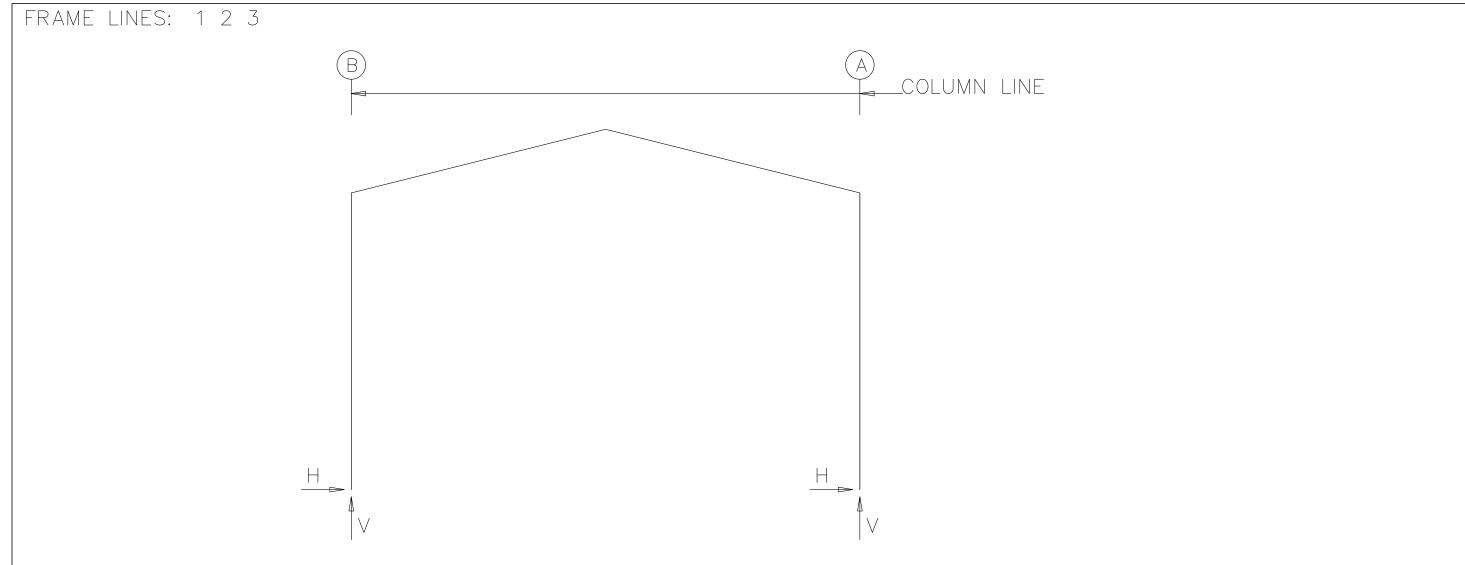
					42'-0" OUT-TO-OUT O	F STEEL	3	
				22'-0"		20'-0"		
		1'-2"	7'-6"	3'-8" 3'-0"	3'-4" 3'-4" 1'-0"	4'-0" 2'-8" 3'-8"	7'-6"	<u>2"</u>
		1 1/2"	V Pracina				F002 <b>F</b>	<u>/2"</u>
B	4,-0,,	A	V-Bracing		E E . THE B		• · ·	
24'-0" OUT-TO-OUT OF STEEL	16'-0" OH DOOR	B F002			21'-5 1/2" (Keep This Dimension)		E	
A	4,-0"		V-Bracing				<del>-   •   •   •   •   •   •   •   •   •   </del>	8,-10,
		1 1/2"	7'-6"	3'-8" 3'-0"	3'-4" 3'-4" 1'-0"	4'-0"	F002	<u>/2"</u>
		1'-2"	/ -6	22'-0"	2	4-0	7'-6"	





ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
А	APPROVAL/PERMIT	05/15/25	ZGL	MDL	YHL

	***************************************	IMPLIED.	•		
	DESCRIPTION	ANCHOR BOLT DE	ETAILS		
<b>A</b>	CUSTOMER	STEEL NATION BU	JILDINGS, IN	IC.	
STEELNATION	END USER	Columbia Gas (NiS	ource CG Ut	ility Building)	
	END USE	Garage Building		BUILDING	
100 SOUTHPOINTE SQUARE LANE   CANONSBURG, PA 15317  PH: 724.225.2202   INFO@STEELNATION.COM	STREET	1336 Ridgeview Ro	ad (40.0143	67, <b>-</b> 83.0486	81)
	CITY ST ZIP	Upper Arlington, Ol	Ⅎ 43221		
	82397	JOB NO.: 173430	N.T.S.	DWG. NO.: F002	,



## RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

			—— Colu	umn_Red	action	s(k) -							
Frm Id ——	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(i Qty	in) Dia	Base Width	e_Plate(i Length	n) Thick	Grout (in)
1*	В	3 1				-1.8 -1.5	-2.2 -3.1	4 0	.750	8.000	11.50	0.500	0.0
1*	А	7 8				-1.9 1.5	5.0 -3.1	4 0	.750	8.000	11.50	0.500	0.0
1*	Frame	lines: 1	3										

## RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

m d	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bo Qty	It(in) Dia	Bas Width	e_Plate(i Length	n) Thick	Grout (in)
2*	В	3 1	3.0 2.0			-2.5 -2.0	-2.5 -4.1	4	0.750	8.000	13.50	0.500	0.0
2*	А					-3.0 2.0	8.7 -4.1	4	0.750	8.000	13.50	0.500	0.0

## NOTES FOR REACTIONS

- 1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- 2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- 3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.

	from the braced bay. The	e verti	cal reaction is downward.
4.	Width Length Eave Height Roof Slope (rise, Roof Dead Load	ed on	the following building data: = 24.0 = 42.0 = 14.0 / 14.0 = 3.00 / 3.00 = 5.0
	Wall Dead Load Left Endwall Right Endwall Front Sidewall Back Sidewall Roof Live Load Frame Live Load	(psf) (psf) (psf) (psf) (psf)	= 55.0 = 55.0 = 55.0 = 50.0
	Min Max Collateral Load Snow Load Wind Speed Wind Code Exposure Closure	(mph)	= 13.9 = 17.0 = 5.0 = 20.0 = 115.0 = OBC 24 (IBC 21) = C = Enclosed
	Internal Wind Coeff Risk Category Importance — Wind Importance — Seismic Seismic Design Catego Seismic Coeff	ry	= -0.18, +0.18 = II - Normal = 1.00 = 1.00 = B = 0.19

## Seismic Coeff 5. Loading conditions are:

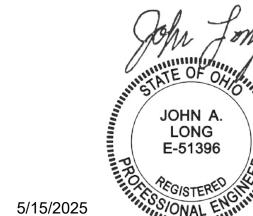
- 1 Dead+Collateral+Snow+Snow\_Drift
  2 Dead+Collateral+0.75Snow+0.45Wind\_Left1+0.75Slide\_Snow
  3 Dead+Collateral+0.75Snow+0.45Wind\_Right1+0.75Slide\_Snow
  4 0.6Dead+0.6Wind\_Left1
  5 0.6Dead+0.6Wind\_Right1
  6 0.6Dead+0.6Wind\_Left2
  7 0.6Dead+0.6Wind\_Right2
  8 Dead+Collateral+MIN\_SNOW

'IGID	FRAME:	BASIC	COLUMN	REACTIONS	(k	)

												Wind	
ld 1* 1*	Line B A	Horz 0.2 -0.2	Vert 1.6 1.6	Horz 0.4 -0.4	Vert 1.6 1.6	Horz 0.5 -0.5	Vert 3.5 3.5	Horz 0.6 -0.6	Vert 3.9 3.9	Horz 0.0 0.0	Vert 0.3 0.0	Horz -2.6 -2.0	Vert -6.7 -2.4
Frame Id 1* 1*	Column Line B A	-Wind_ Horz 2.0 2.6	Right1- Vert -2.4 -6.7	Wind Horz -3.2 -1.4	_Left2- Vert -5.2 -0.9	- Wind_ Horz 1.4 3.2	Right2- Vert -0.9 -5.2	Horz 1.1	_Long1- Vert -4.8 -4.5	Horz 0.6	_Long2- Vert -4.5 -4.8	-Seism Horz -0.6 -0.6	ic_Left Vert -0.7 0.7
Frame Id 1* 1*	Column Line B A	Horz		-Seism Horz 0.0 0.0	ic_Long Vert -1.0 -1.0	-MIN_S Horz 0.6 -0.6	SNOW Vert 4.1 4.1	F1UNB_ Horz 0.4 -0.4	SL_L- Vert 3.2 1.6	F1UNB_ Horz 0.4 -0.4	SL_R- Vert 1.6 3.2		
Frame Id 2* 2*	Column Line B A	Horz	-Dead Vert 2.4 2.4		Vert	 Horz 0.7 -0.7	Vert	 Horz 1.0 -1.0	-Snow Vert 6.6 6.6	Snov Horz 0.0 0.0	v_Drift- Vert 0.6 0.0	<ul><li>Wind</li><li>Horz</li><li>-3.5</li><li>-2.9</li></ul>	_Left1- Vert -9.1 -3.3
Frame Id 2* 2*	Column Line B A	Horz	Right1- Vert -3.3 -9.1	Horz -4.5	_Left2- Vert -6.6 -0.7	-Wind_ Horz 1.9 4.5		Horz 1.9	Vert	Horz 1.3		-Seism Horz -0.6 -0.6	ic_Left Vert -0.7 0.7
Frame Id 2* 2*	Column Line B A	Seismic Horz 0.6 0.6	Right Vert 0.7 -0.7	-Seism Horz 0.0 0.0	ic_Long Vert -1.0 -1.0	-MIN_S Horz 1.0 -1.0	SNOW Vert 6.8 6.8	F2UNB_ Horz 0.7 -0.7	SL_L- Vert 5.3 2.7	F2UNB_ Horz 0.7 -0.7	SL_R- Vert 2.7 5.3		



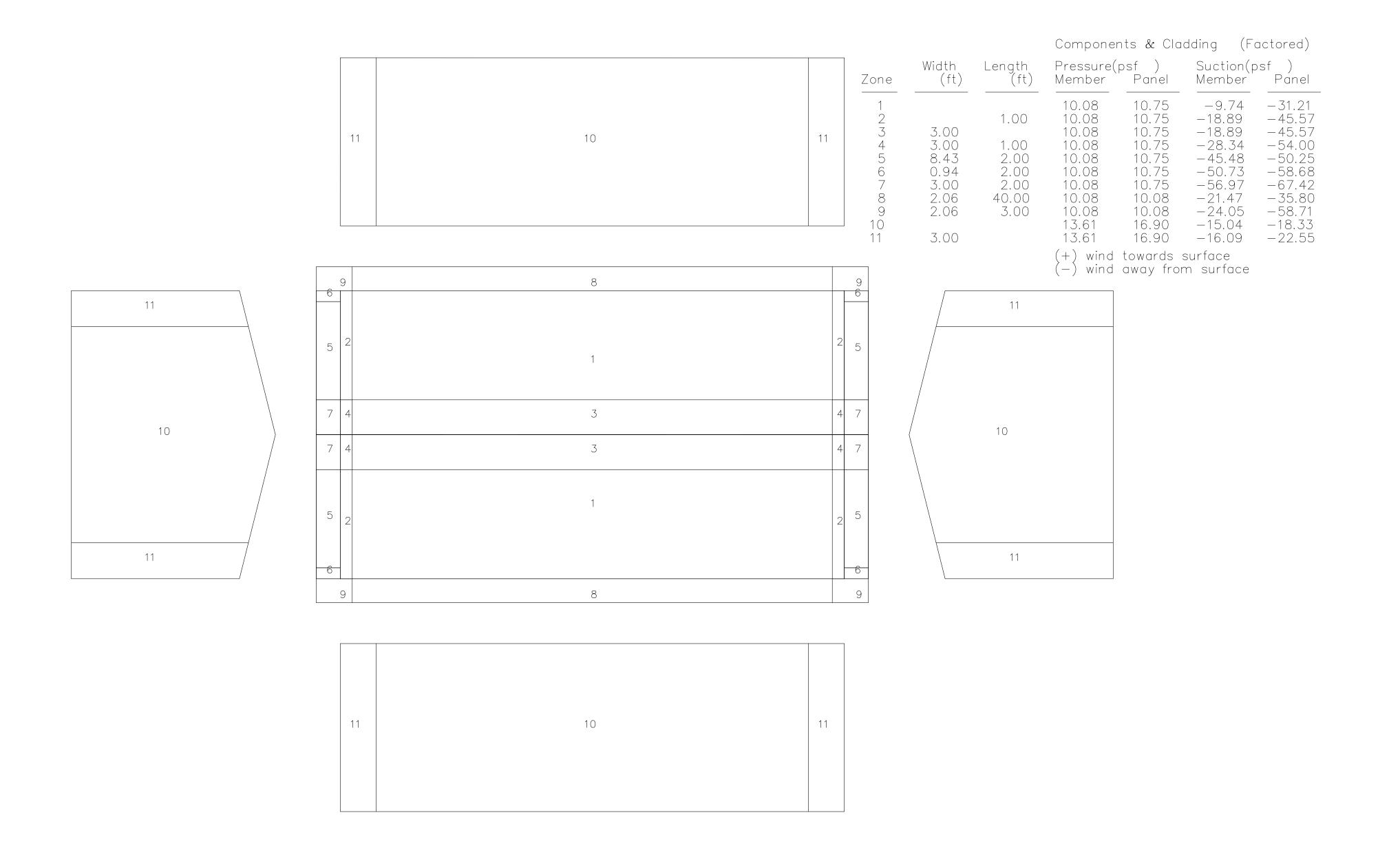
Wa Loc	II — Line	- Col Line	——Wi Horz	nd — Vert	- —Sei Horz	smic - Vert	Panel_Shea (lb/ft) Wind Seis	Not
L_EW			1 7	1 1	15	1 ()	·	(h
R_EW B SW	3 B	3,2	1.7 1.7	1.1	1.5	1.0		(h
		me at		1 6 1	1.0	1.0		



SSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
А	APPROVAL/PERMIT	05/15/25	ZGL	MDL	YHL

/2025	VAL ENGLIN	EXCLUDE IMPLIED.	D. NO INSP	ECTION OR S	SUPERVISION IS			
DESCRIPTION	ANCHOR	BOLT RE	ACTIONS					
CUSTOMER	STEEL NA	TION BU	ILDINGS, IN	IC.				
END USER Columbia Gas (NiSource CG Utility Building)								
END USE	Garage Bu	ilding		BUILDING	Α			
STREET 1336 Ridgeview Road (40.014367, -83.048681)								
CITY ST ZIP Upper Arlington, OH 43221								
82397	JOB NO.: 1734;	30	N.T.S.	DWG. NO.: F003	ISSUE:			





WIND LOAD DIAGRAM



ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
А	APPROVAL/PERMIT	05/15/25	ZGL	MDL	YHL	
						5
						100 SC
					·	

3/13/	2023	VAL	IMPLIED.			
	DESCRIPTION	WIND LOA	D DIAGF	RAM		
<b>A</b>	CUSTOMER	STEEL NA	TION BU	ILDINGS, IN	IC.	
TEEINATIÖN	END USER	Columbia (	Gas (NiSo	ource CG Ut	ility Building)	
	END USE	Garage Bu	ilding		BUILDING	Α
SOUTHPOINTE SQUARE LANE  CANONSBURG, PA 15317 PH: 724.225.2202  INFO@STEELNATION.COM	STREET	1336 Ridge	eview Ro	ad (40.0143	67, -83.04868	31)
	CITY ST ZIP	Upper Arlir	ngton, OF	1 43221		
	82397	JOB NO.: 1734;	30	N.T.S.	DWG. NO.: F004	ISSUE:

# METAL BUILDING FOUNDATION PLANS RIDGEVIEW STATION

## **GENERAL NOTES**

#### BUILDING CODE/STANDARDS:

- 1. BUILDING CODE: OBC 24 (IBC 2021)
- 2. CONCRETE: ACI 318-19
- 3. STEEL: AISC 360-16
- 4. WELDING: AWS D1.1D1.4M-2011
- 5. MASONRY: ACI 530-13

#### **GENERAL**:

- 1. ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND ENGINEER IMMEDIATELY FOR RESOLUTION BEFORE PROCEEDING.
- JOB SITE SAFETY AND CONSTRUCTION SEQUENCING ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR
   DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCTION PURPOSES. DIMENSIONS NOTED TAKE PRECEDENCE OVER SCALE.
- 4. COMMENCEMENT OF WORK BY THE CONTRACTOR OR ANY SUBCONTRACTOR UNDER THESE PLANS SHALL INDICATE ACKNOWLEDGEMENT AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS PERTAINING TO THE WORK BEING PERFORMED.
- NO OPENING THROUGH ANY STRUCTURAL COMPONENT SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

#### **FOUNDATIONS:**

- FOUNDATIONS ARE DESIGNED BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 PSF (VALUE ASSUMED)
  NO GEOTECHNICAL REPORT WAS AVAILABLE AT THE TIME OF FOUNDATION DESIGN. A GEOTECHNICAL REPORT IS
  RECOMMENDED PRIOR TO FOUNDATION CONSTRUCTION TO CONFIRM ADEQUATE SOIL CONDITIONS.
- ALL SUB GRADE FILL WITHIN THE PROPOSED BLDG. FOOTPRINT SHALL BE GRANULAR FILL MATERIAL PLACED IN MAX. 12" LIFTS AND COMPACTED TO A MIN. 95% COMPACTION.
- 3. ALL FOUNDATION WALL EXTERIOR BACK-FILL SHALL BE APPROVED GENERAL FILL MATERIAL.
- 4. ALL FOUNDATION WALL INTERIOR BACK-FILL SHALL BE APPROVED GRANULAR FILL MATERIAL.

  5. CONTRACTOR IS TO VERIEY AND COORDINATE ALL DIMENSIONS AND LAYOUT REFORE START OF CONST
- 5. CONTRACTOR IS TO VERIFY AND COORDINATE ALL DIMENSIONS AND LAYOUT BEFORE START OF CONSTRUCTION WITH PEMB ANCHOR BOLT LAYOUT.
- 6. ANY WATER IN FOUNDATIONS MUST BE REMOVED AND SOILS CHECKED FOR SUITABLE BEARING. IF SOILS ARE SOFT THEN REMOVE SOFT SOILS, EXCAVATE TO 12" BELOW, AND INSTALL A NEW 12" BASE STONE AND COMPACT 95%. DO NOT POUR ON WATER LOGGED SOILS
- 7. FOUNDATION DESIGN IS BASED ON ANCHOR BOLT PLAN AND REACTIONS PROVIDED BY PEMB SUPPLIER. ANY CHANGES TO ANCHOR BOLT LAYOUT OR REACTIONS SHOULD BE FORWARDED IMMEDIATELY TO THE FOUNDATION ENGINEER.

### CAST-IN-PLACE CONCRETE:

- 1. ALL CONCRETE TO BE (4,000 P.S.I.) MINIMUM 28 DAY COMPRESSIVE STRENGTH
- 2. SLUMP: ALL CONCRETÈ SLUMP SHALL NOT EXCEED 4", UNLESS NOTED ON THE DRAWINGS.
- 3. AIR: ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED 6% ± 1½%. ENTRAINING ADMIXTURES SHALL COMPLY WITH C260.
- 4. WATER-CEMENT: ALL CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.50
- 5. ALL REBAR TO BE ASTM GRADE #60 OR BETTER
- 6. ALL WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A185, GRADE 65. ALL W.W.F. SHALL BE SUPPORTED ON CHAIRS.
- 7. CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS (U.N.O.):
  -CONCRETE CAST AGAINST EARTH: 3"
- -SLAB-ON-GRADE: 2"
  -FOOTINGS (SIDES FORMED): 3"
- -GRADE BEAMS: 1½" TOP & SIDES
- -WALLS 1½"
  -PIERS AND COLUMNS: 2"
- 8. LAP ALL REBAR (30 x BAR Ø), ROUND UP TO THE NEAREST WHOLE NUMBER.
- TYPICAL ALL HORIZONTAL AND VERTICAL LAPS. EXAMPLE:
- #4 BAR (30 x .5") = 15" LAP
- #5 BAR (30 x .625" = 19" LAP #6 BAR - (30 x .75") = 23" LAP
- #7 BAR (30 x .875")= 26" LAP
  9. DETAILING OF CONCRETE REINFORCEMENT SHALL CONFORM TO ACI 315
- 10. APPLY MEASURES AS SPECIFIED BY ACI 305 FOR "HOT WEATHER CONCRETING" AND ACI 306 FOR" COLD WEATHER CONCRETING" WHEN APPLICABLE
- 11. ALL CONSTRUCTION SHALL CONFORM TO ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FRAMEWORK"

#### **INDEX OF DRAWINGS:**

S-0 GENERAL NOTES
S-1 FOUNDATION PLAN
S-2 TYPICAL SECTIONS & DETAILS
S-3 FOUNDATION SECTIONS & DETAILS
S-4 FOUNDATION SECTIONS & DETAILS
S-5 FOUNDATION SECTIONS & DETAILS
S-6 FOUNDATION SECTIONS & DETAILS

FOUNDATION SECTIONS & DETAILS

**FOUNDATION SECTIONS & DETAILS** 

STEEINATION +

DGEVIEW STATION

EW PEMB FOUNDATION PLANS

SATION:

S6 RIDGEVIEW RD.



REVISIONS:	ONS:
MARK	MARK DESCRIPTION
	ADDED PORCH SLAB & ADJUSTED FOOTINGS

CONTRACTOR IS TO VERIFY
AND CHECK ALL FIELD
CONDITIONS AND DIMENSIONS
PRIOR TO BEGINNING WORK.
IT IS THE CONTRACTOR'S
RESPONSIBILITY TO BRING
ANY DISCREPANCIES TO THE
ENGINEER'S ATTENTION
BEFORE INSTALLING ANY
EQUIPMENT OR MATERIALS.

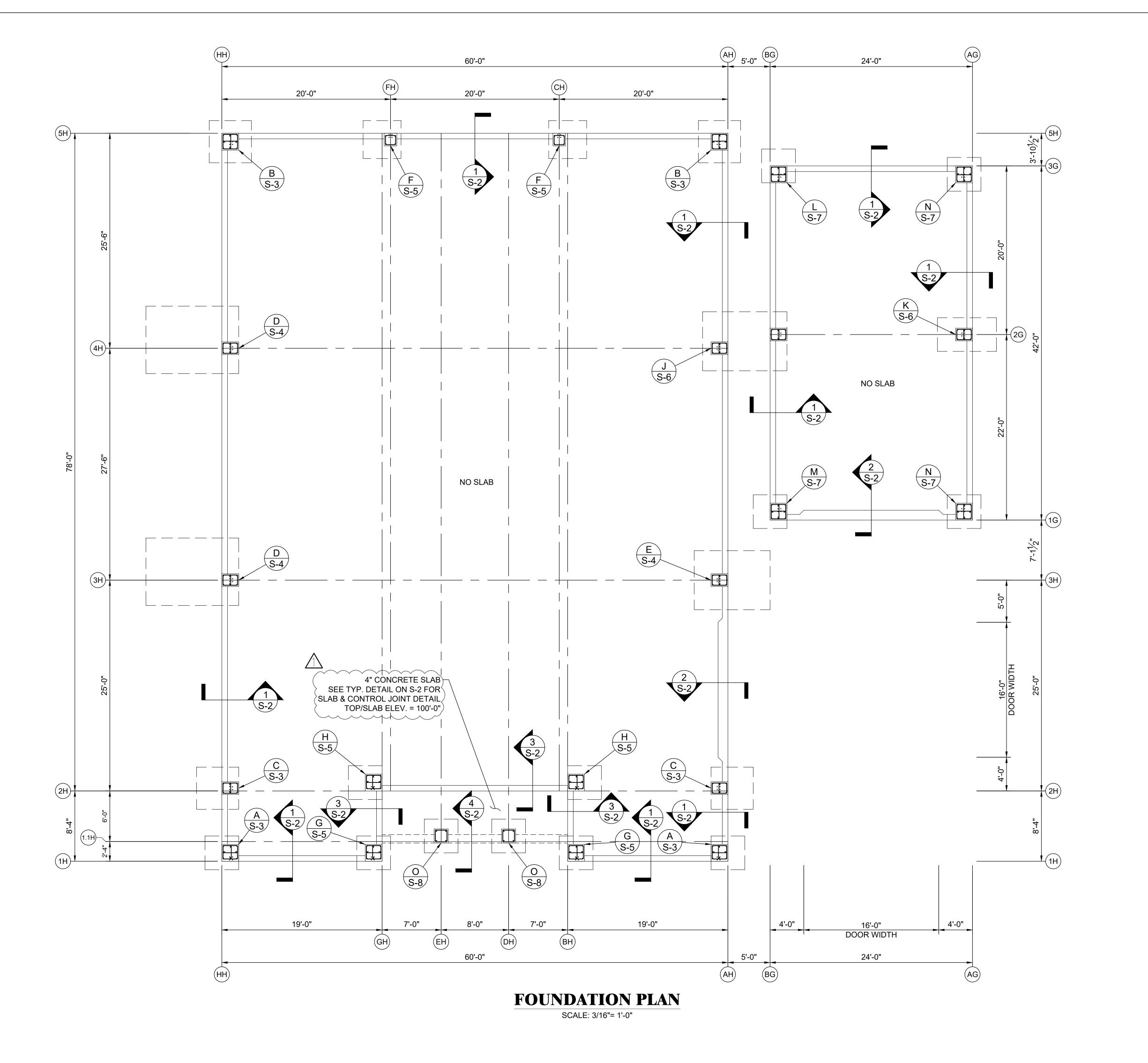
DWG TITLE:

**GENERAL NOTES** 

DATE: 05/23/25 SCALE: AS NOTED DRAWN BY: RLK CHECKED BY: TBT JOB NUMBER: 672-25

DWG NUMBER:

S-0



PROJECT:
RIDGEVIEW STATION
NEW PEMB FOUNDATION PLANS
LOCATION:

TYLER B.
THEURET
E-81076

PG/STERED

OG/05/2025

REVISIONS:
MARK DESCRIPTION
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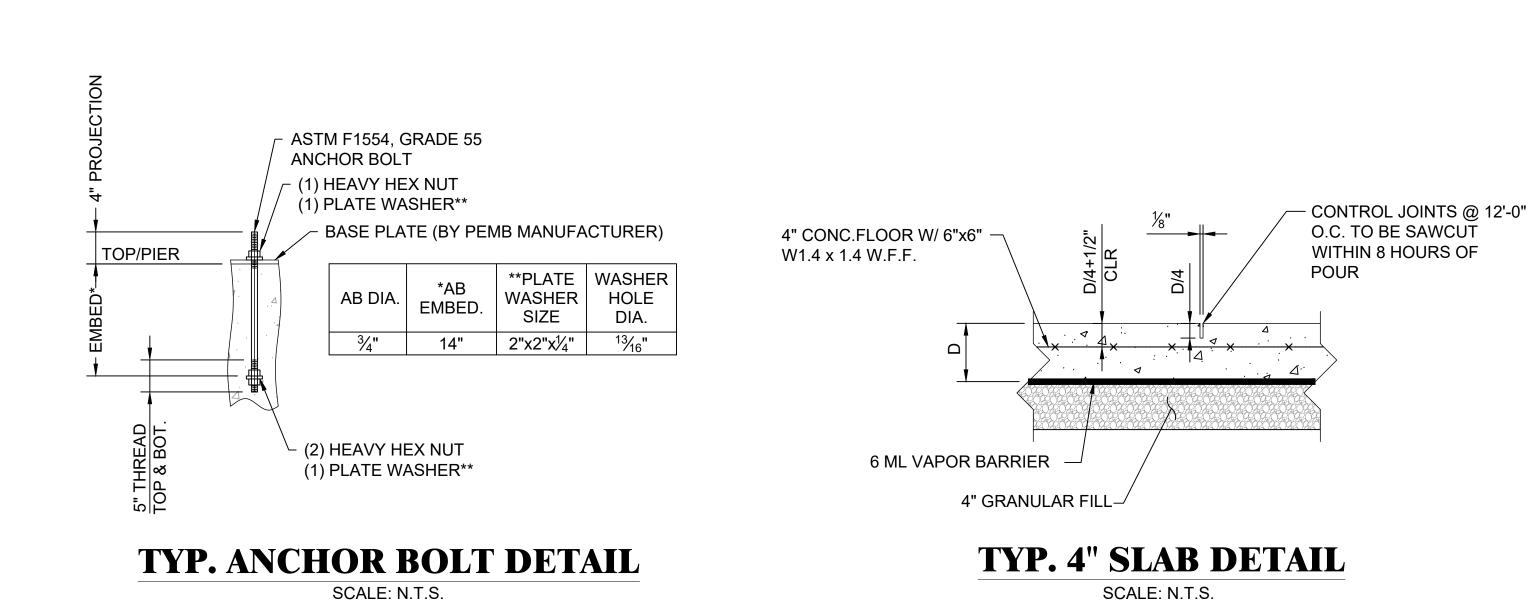
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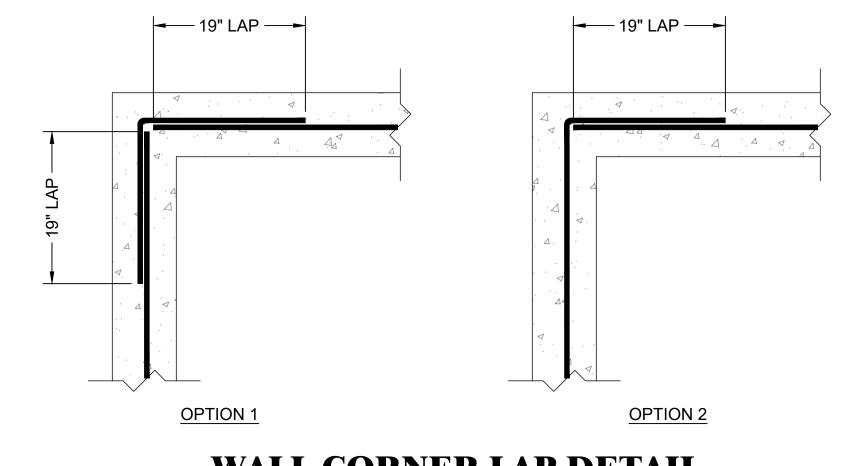
FOUNDATION PLAN

DATE: 05/23/25 SCALE: AS NOTED DRAWN BY: RLK CHECKED BY: TBT JOB NUMBER: 672-25

DWG NUMBER:

S-1

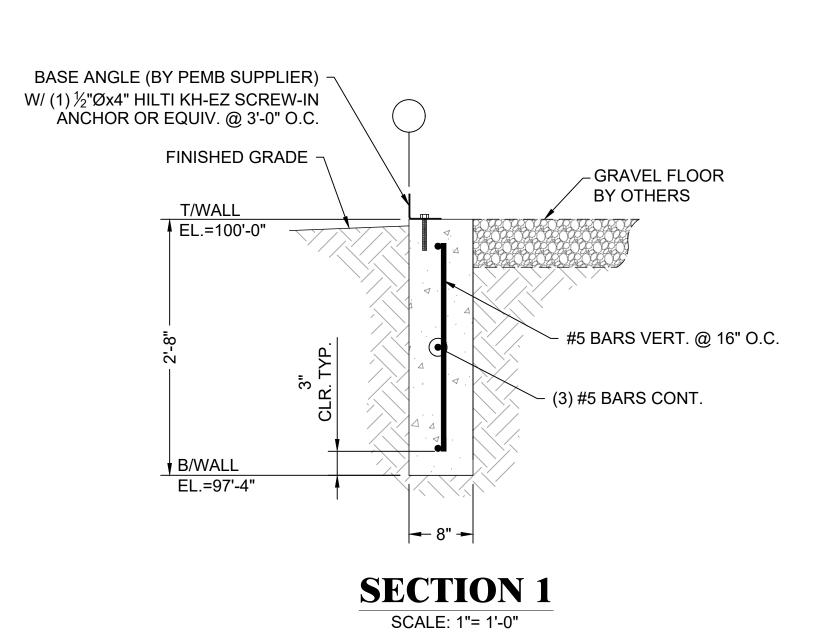




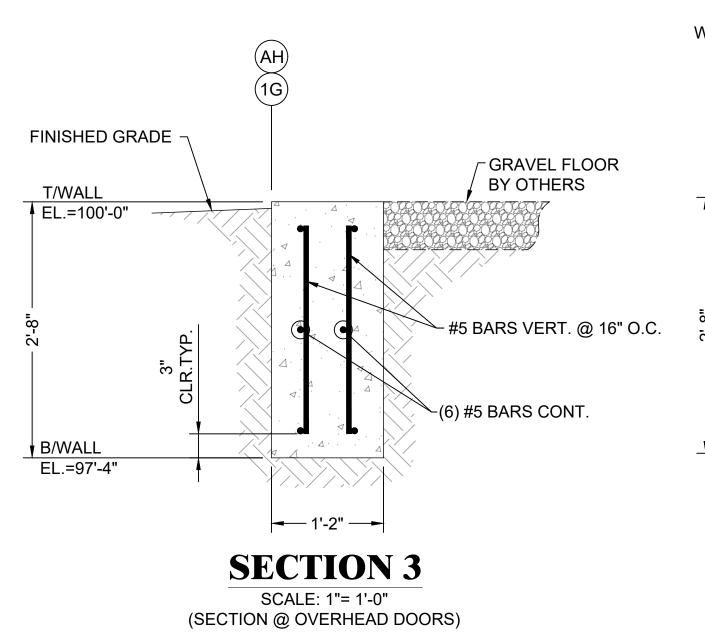
NOTE: VERT REIN. NOT SHOWN FOR CLARITY

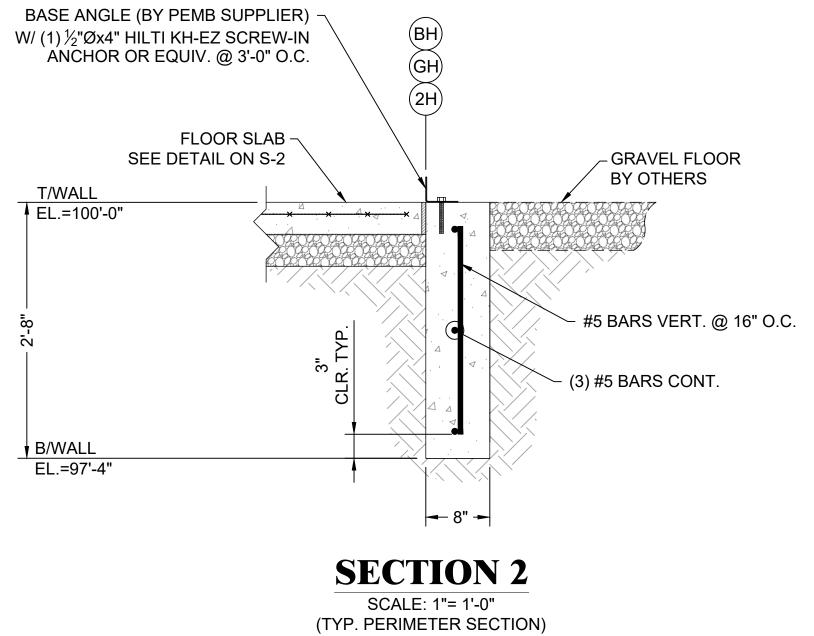
WALL CORNER LAP DETAIL

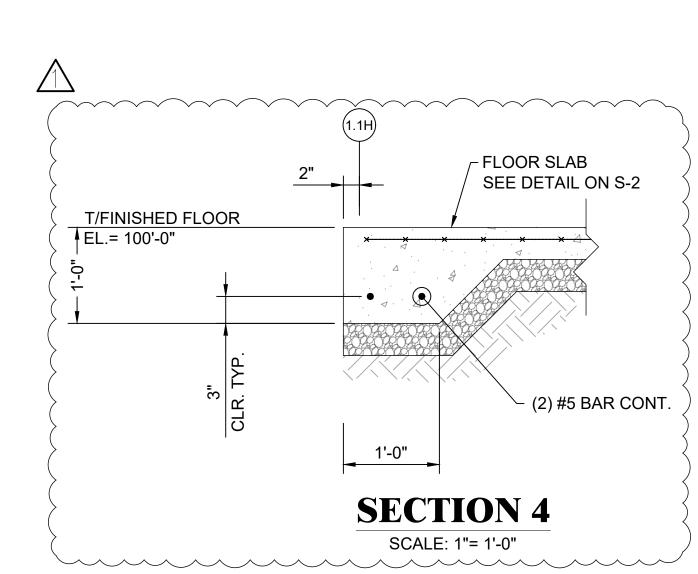
SCALE: N.T.S.



(TYP. PERIMETER SECTION)







GEVIEW STATION PEMB FOUNDATION PLANS



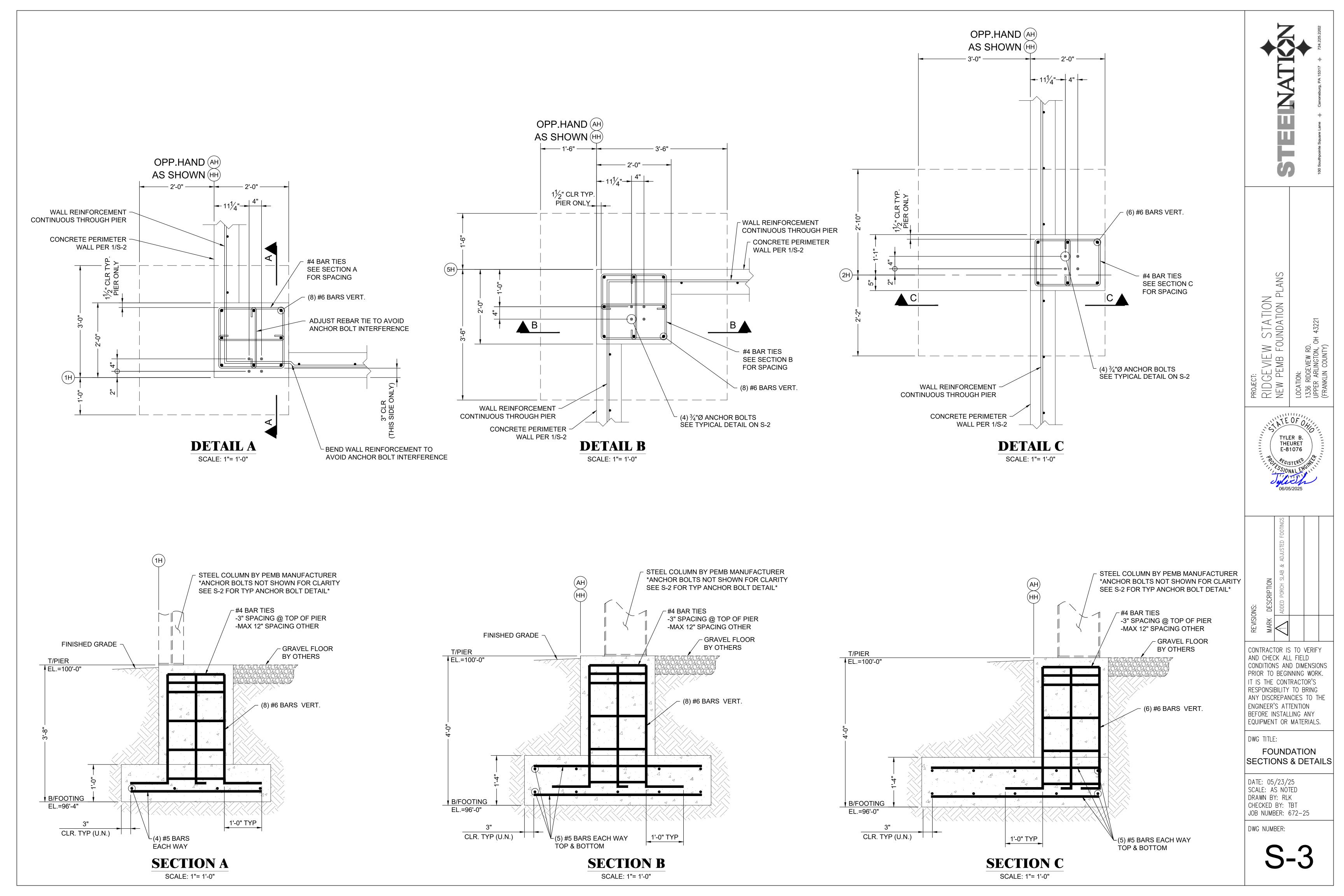
CONTRACTOR IS TO VERIFY AND CHECK ALL FIELD
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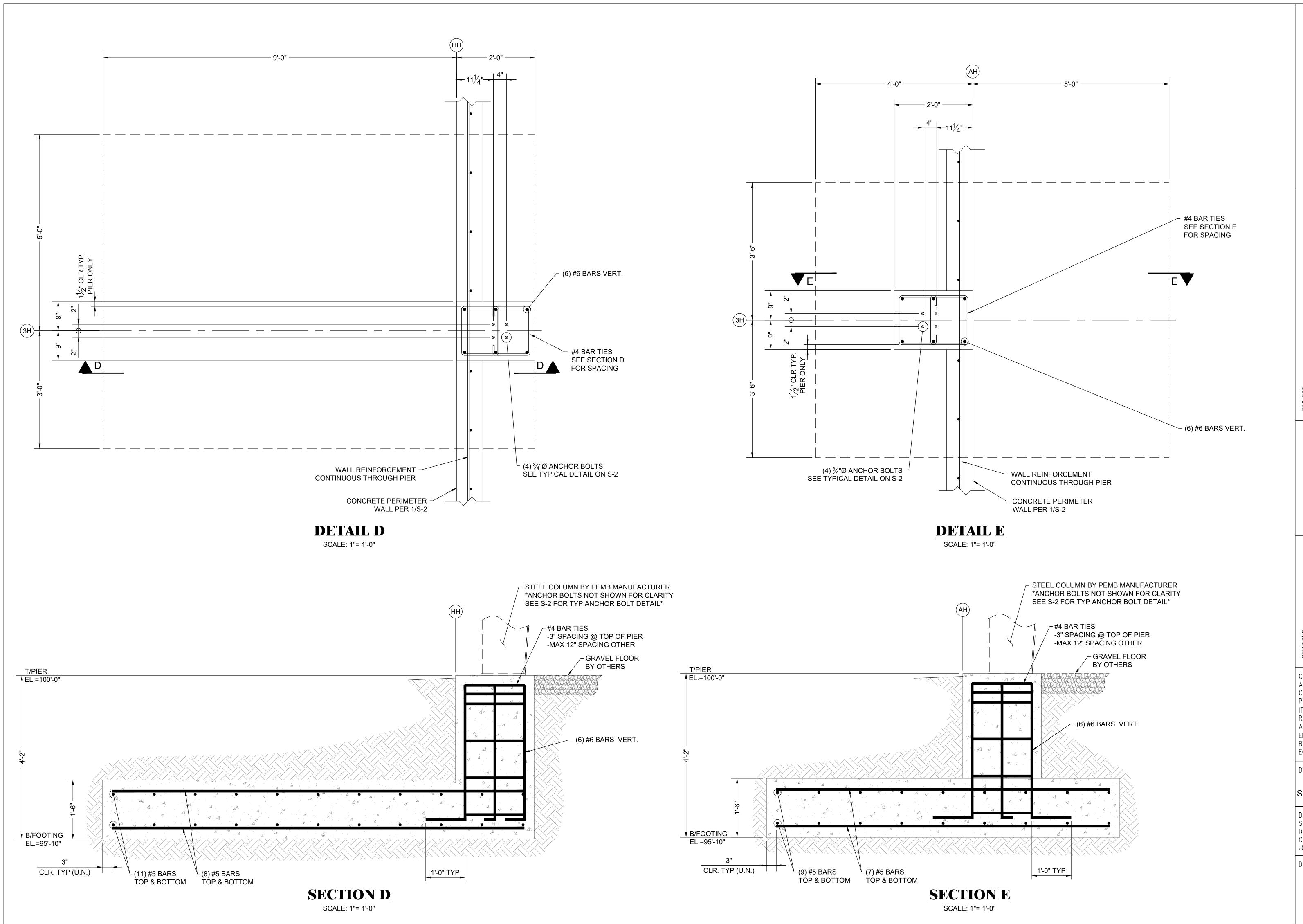
DWG TITLE:

TYPICAL SECTIONS & DETAILS

DATE: 05/23/25 SCALE: AS NOTED DRAWN BY: RLK CHECKED BY: TBT JOB NUMBER: 672-25

DWG NUMBER:





PROJECT:
RIDGEVIEW STATION
NEW PEMB FOUNDATION PLANS
LOCATION:
1336 RIDGEVIEW RD.

TYLER B.
THEURET
E-81076

FG/STERED

O6/05/2025

MARK DESCRIPTION

ADDED PORCH SLAB & ADJUSTED FOOTINGS

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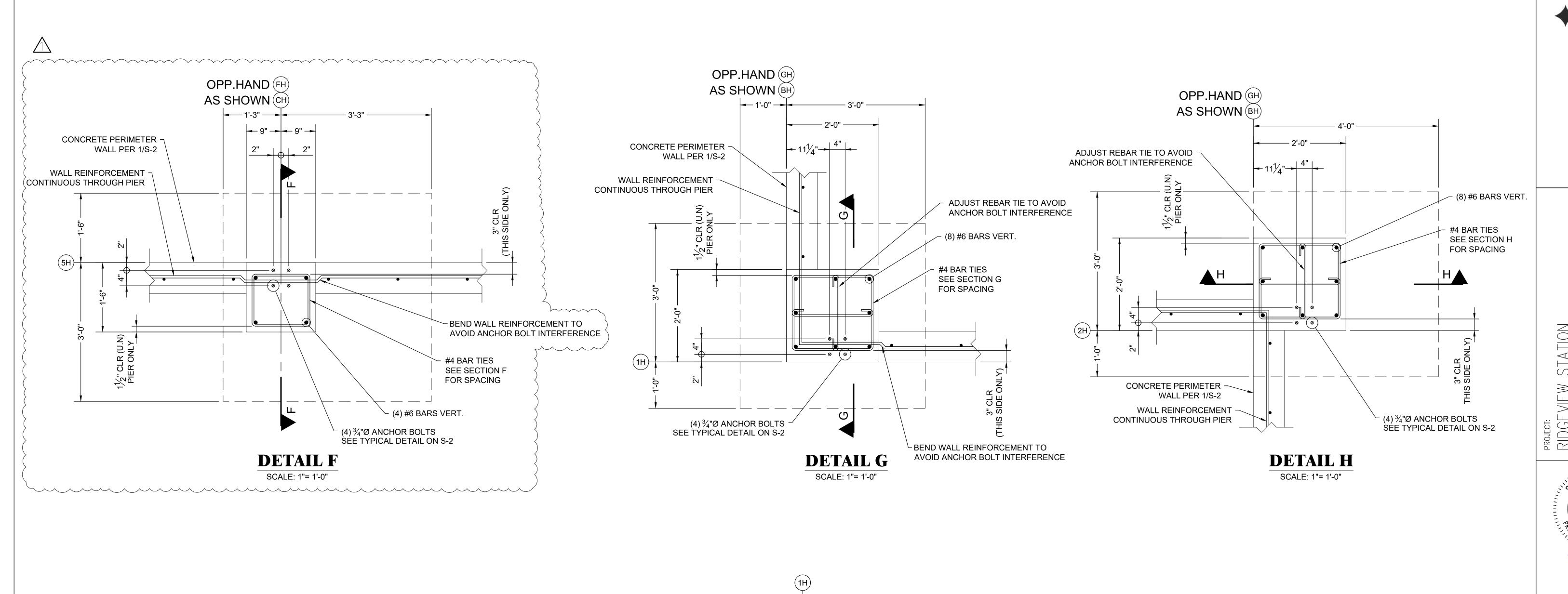
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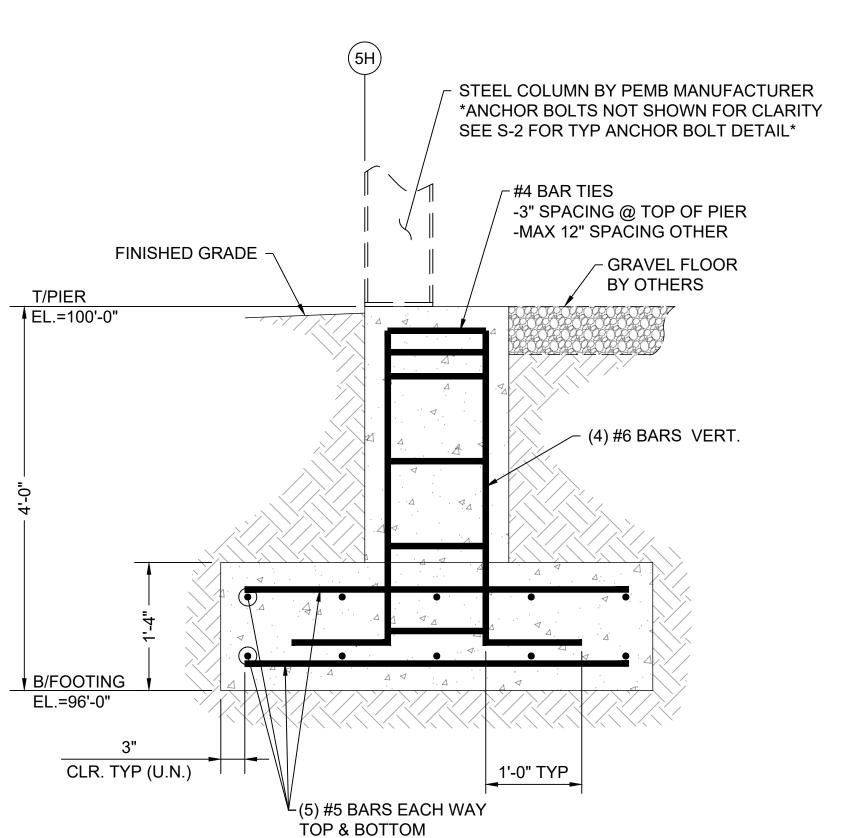
FOUNDATION SECTIONS & DETAILS

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DWG NUMBER:

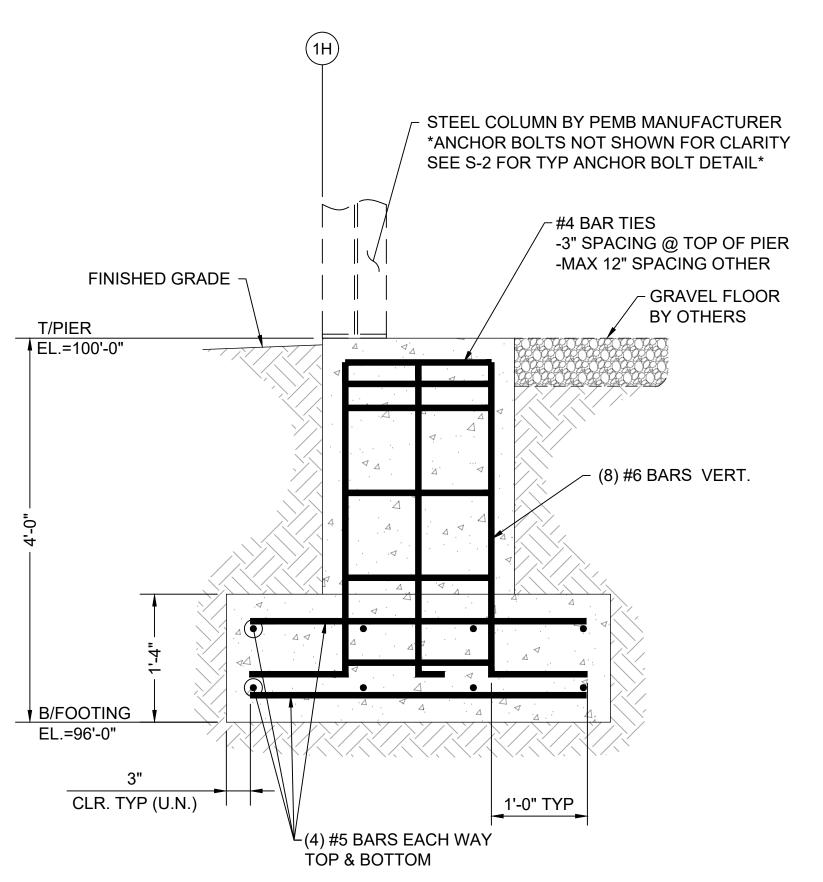
S-4





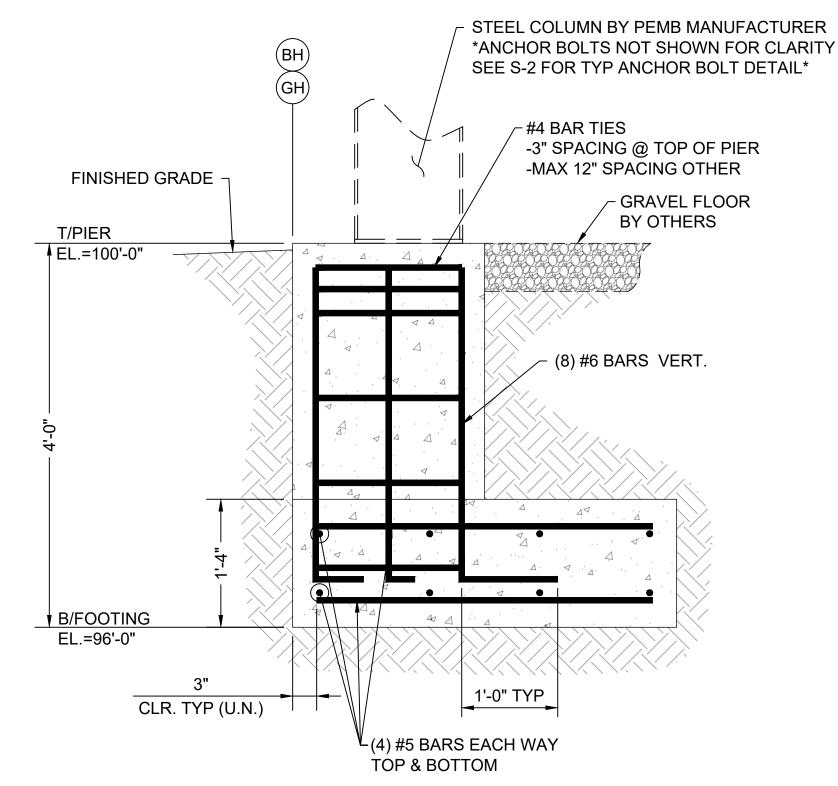
**SECTION F** 

SCALE: 1"= 1'-0"



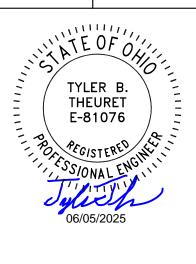
**SECTION G** 

SCALE: 1"= 1'-0"



SECTION H
SCALE: 1"= 1'-0"

RIDGEVIEW STATION
NEW PEMB FOUNDATION PLANS
LOCATION:
1336 RIDGEVIEW RD.
UPPER ARLINGTON, OH 43221
(FRANKLIN COUNTY)



MARK DESCRIPTION

ADDED PORCH SLAB & ADJUSTED FOOTINGS

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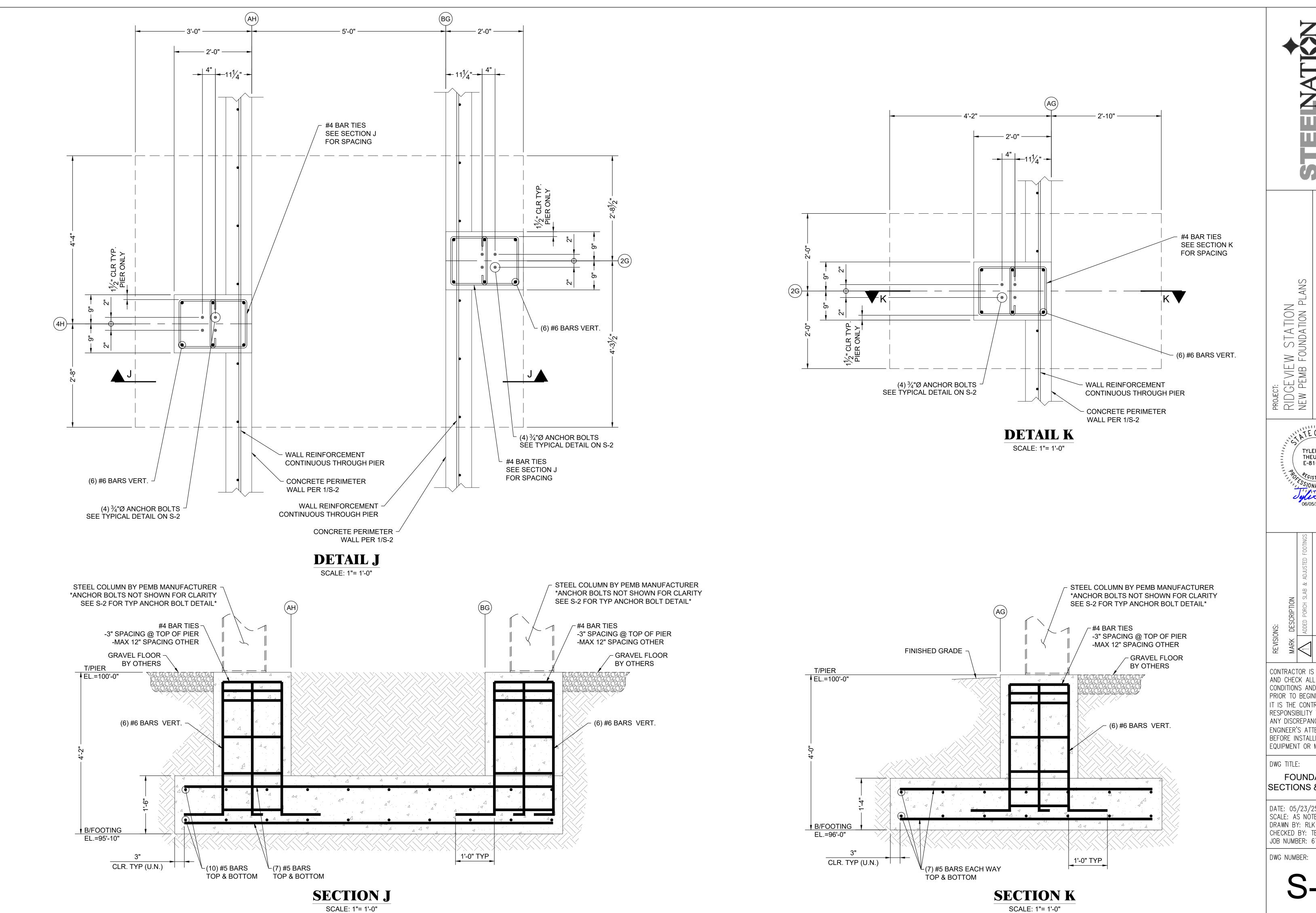
DWG TITLE:

FOUNDATION SECTIONS & DETAILS

DATE: 05/23/25 SCALE: AS NOTED DRAWN BY: RLK CHECKED BY: TBT JOB NUMBER: 672-25

DWG NUMBER:

S-5



8

LOCATION: 1336 RIDGEVIEW RD. UPPER ARLINGTON, OH <sup>2</sup> (FRANKLIN COUNTY)

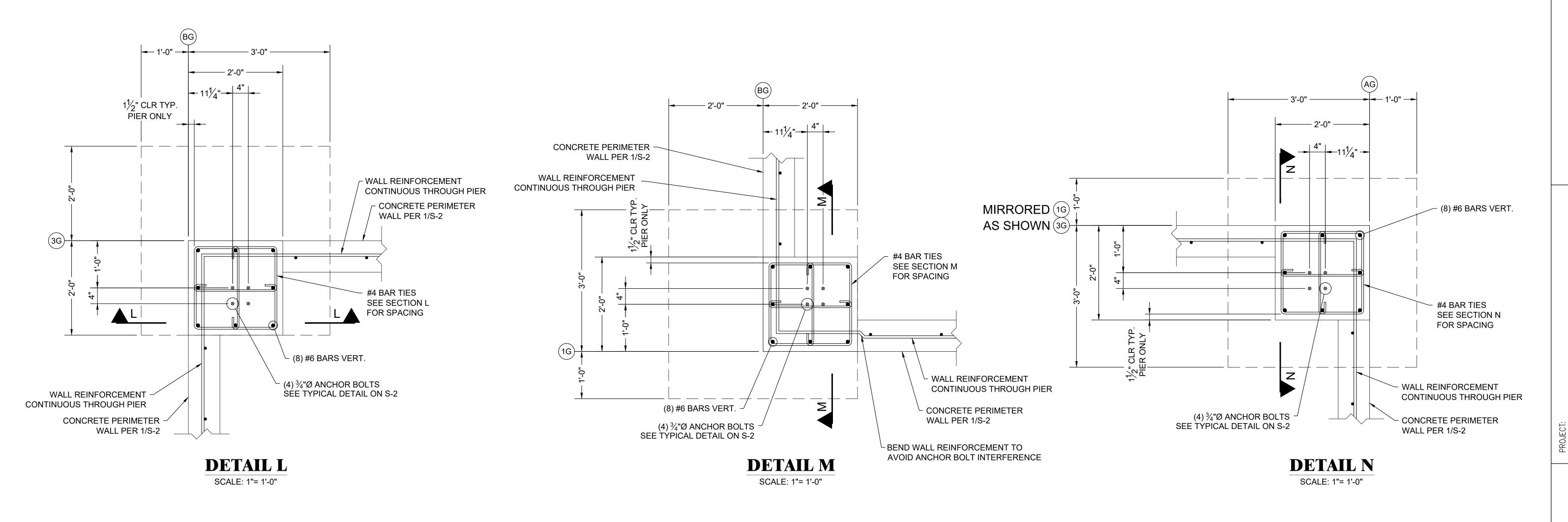


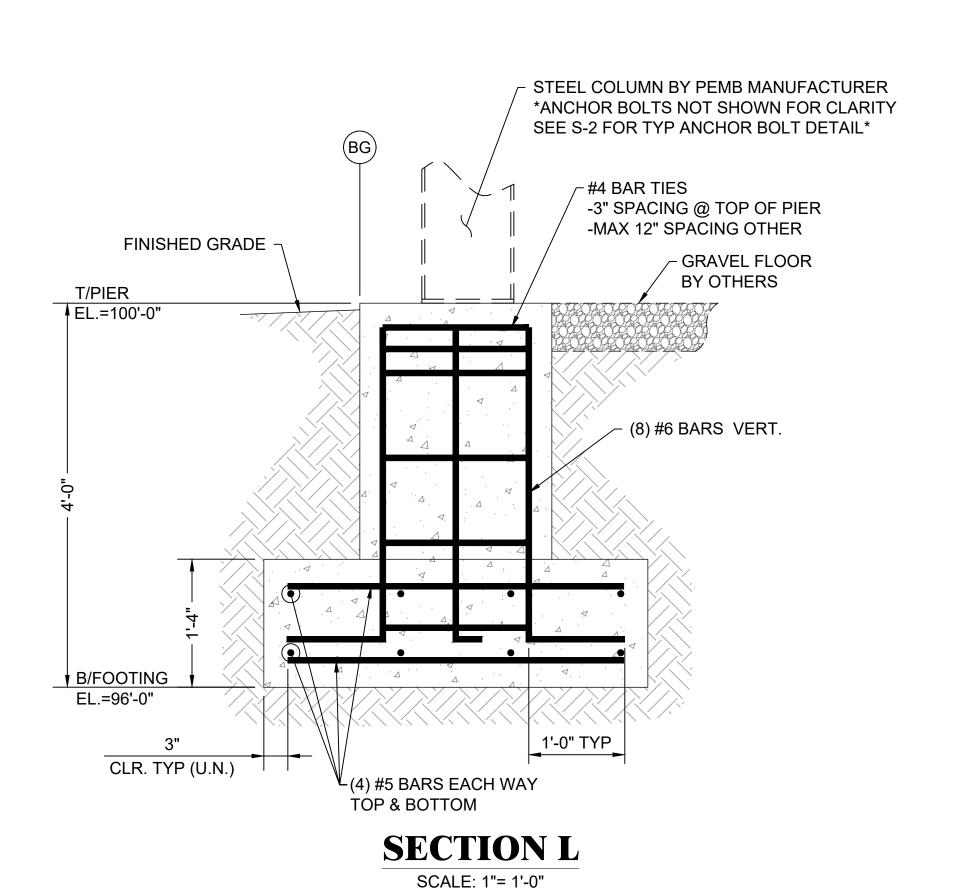
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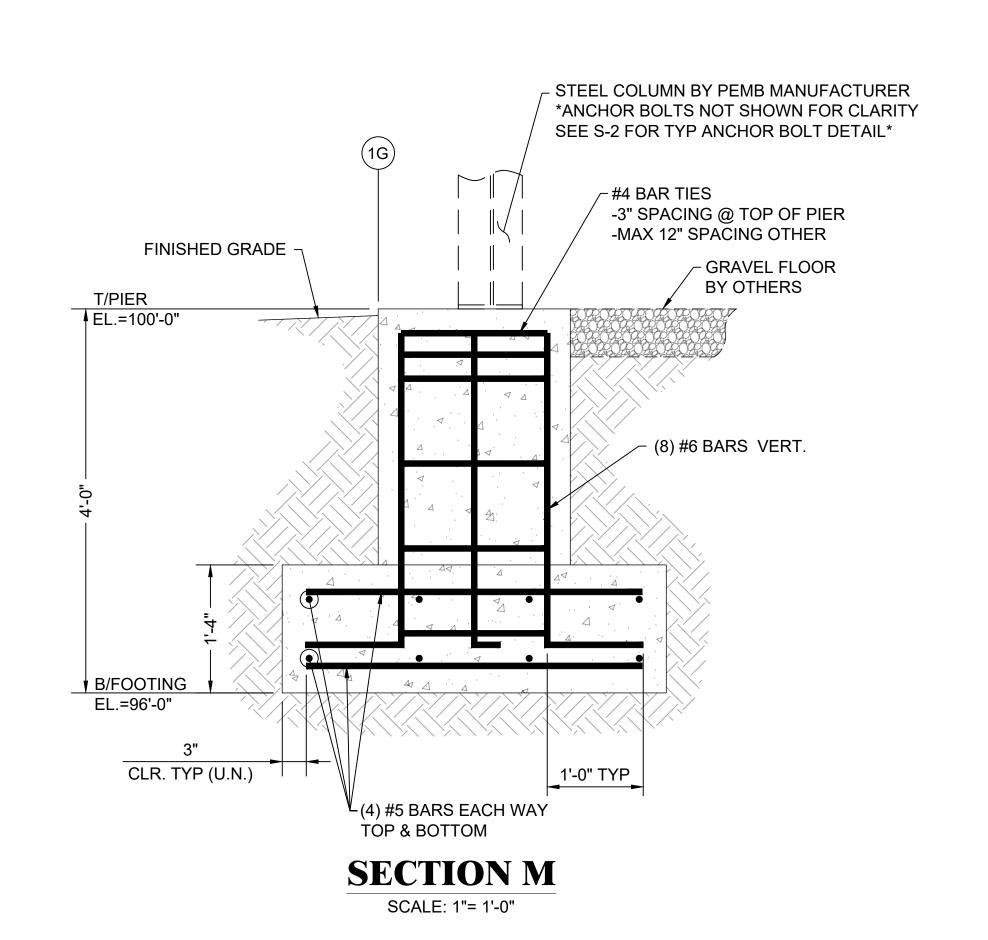
**FOUNDATION** SECTIONS & DETAILS

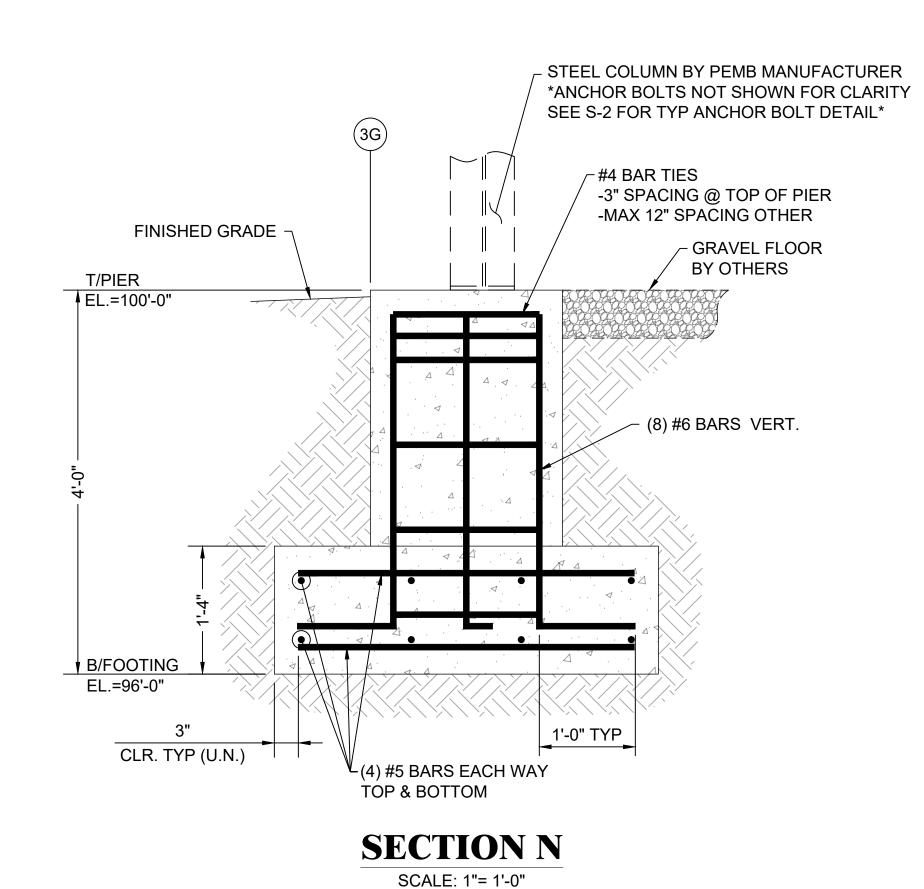
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DWG NUMBER:



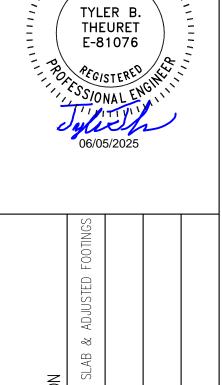








PROJECT:
RIDGEVIEW STATION
NEW PEMB FOUNDATION PLANS
LOCATION:
1336 RIDGEVIEW RD.
UPPER ARLINGTON, OH 43221
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ENGINEER'S ATTENTION
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EQUIPMENT OR MATERIALS.

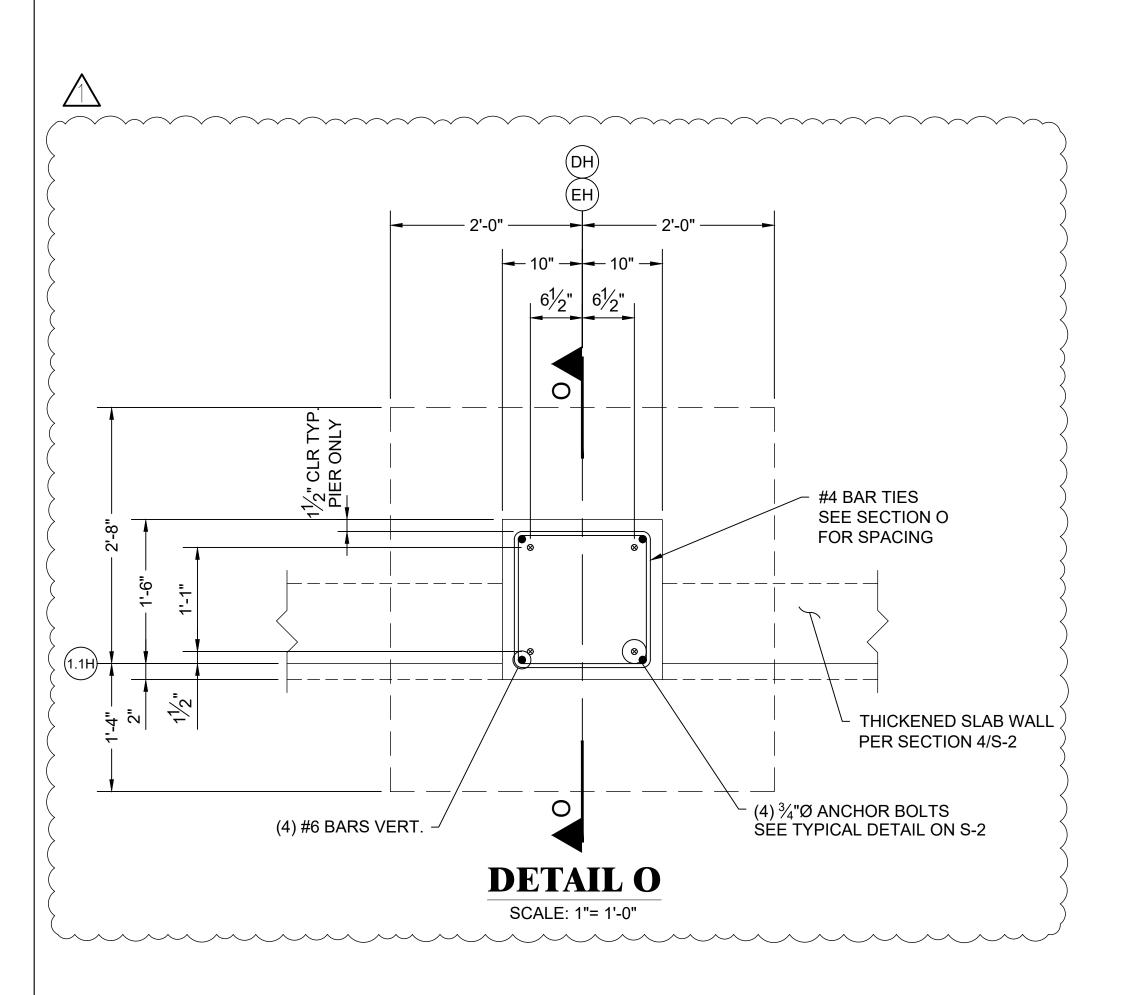
DWG TITLE:

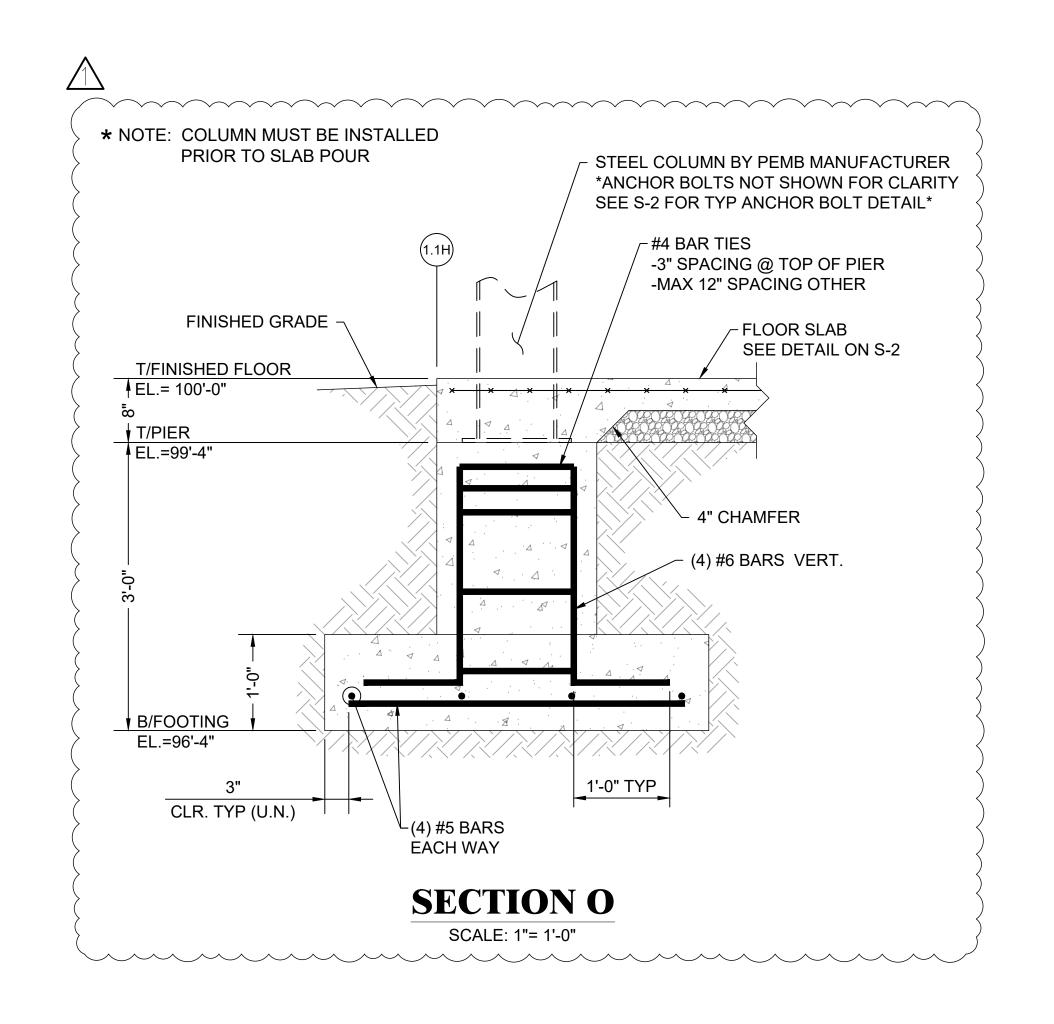
FOUNDATION SECTIONS & DETAILS

DATE: 05/23/25 SCALE: AS NOTED DRAWN BY: RLK CHECKED BY: TBT JOB NUMBER: 672-25

DWG NUMBER:

S-7







PROJECT:
RIDGEVIEW STATION
NEW PEMB FOUNDATION PLANS
LOCATION:

TYLER B.
THEURET
E-81076

SS/ONAL ENGINEER
06/05/2025

$\underline{\circ}$	REVISIONS:
	MARK DESCRIPTION
< .	ADDED PORCH SLAB & ADJUSTED FOOTINGS
l	

CONTRACTOR IS TO VERIFY
AND CHECK ALL FIELD
CONDITIONS AND DIMENSIONS
PRIOR TO BEGINNING WORK.
IT IS THE CONTRACTOR'S
RESPONSIBILITY TO BRING
ANY DISCREPANCIES TO THE
ENGINEER'S ATTENTION
BEFORE INSTALLING ANY
EQUIPMENT OR MATERIALS.

DWG TITLE:

FOUNDATION SECTIONS & DETAILS

DATE: 05/23/25 SCALE: AS NOTED DRAWN BY: RLK CHECKED BY: TBT JOB NUMBER: 672-25

DWG NUMBER:

S-8