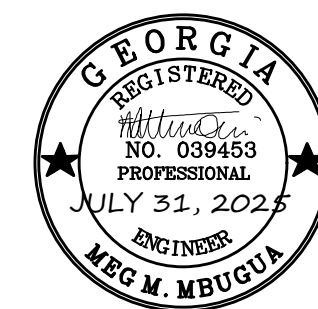
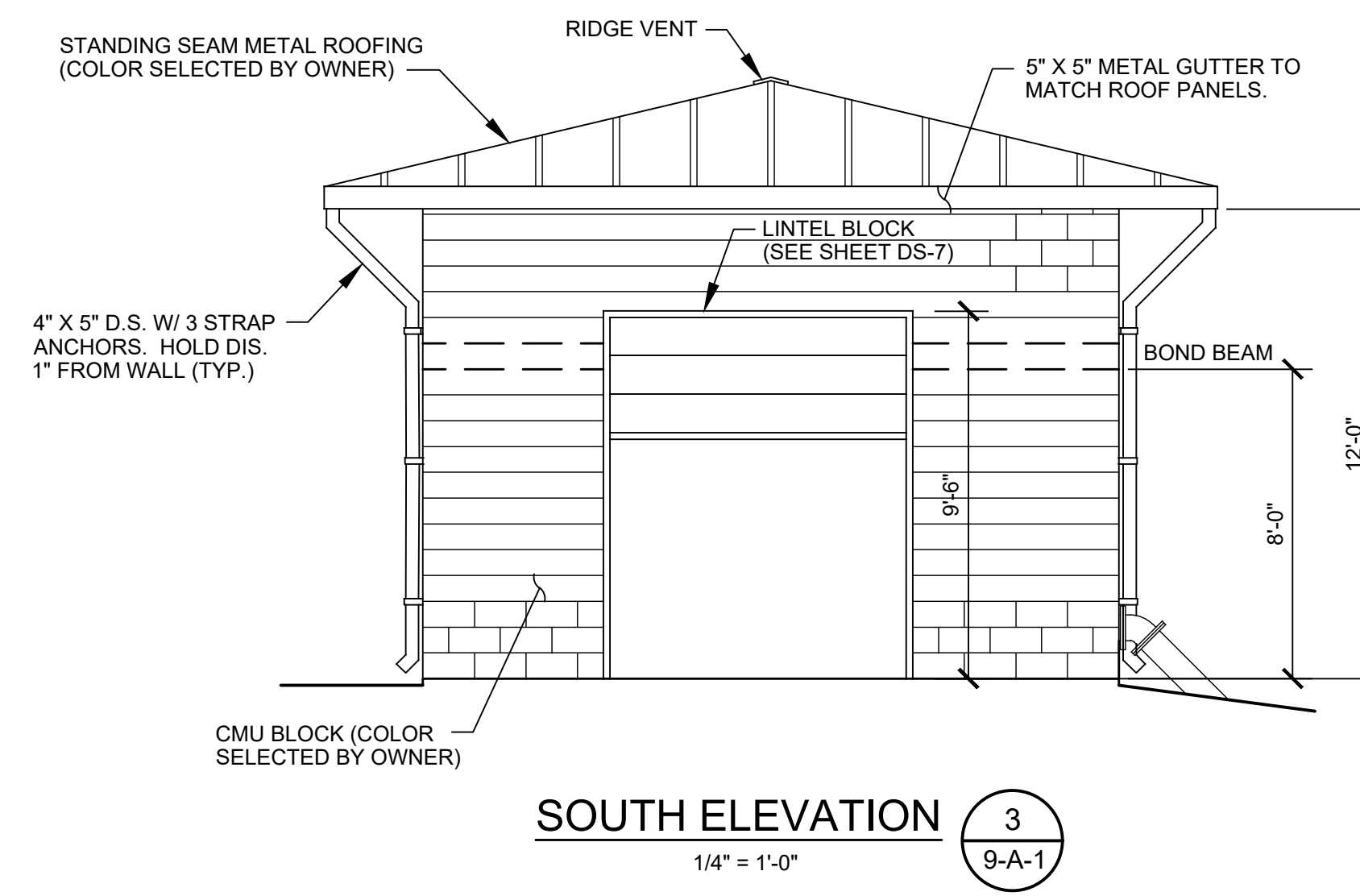
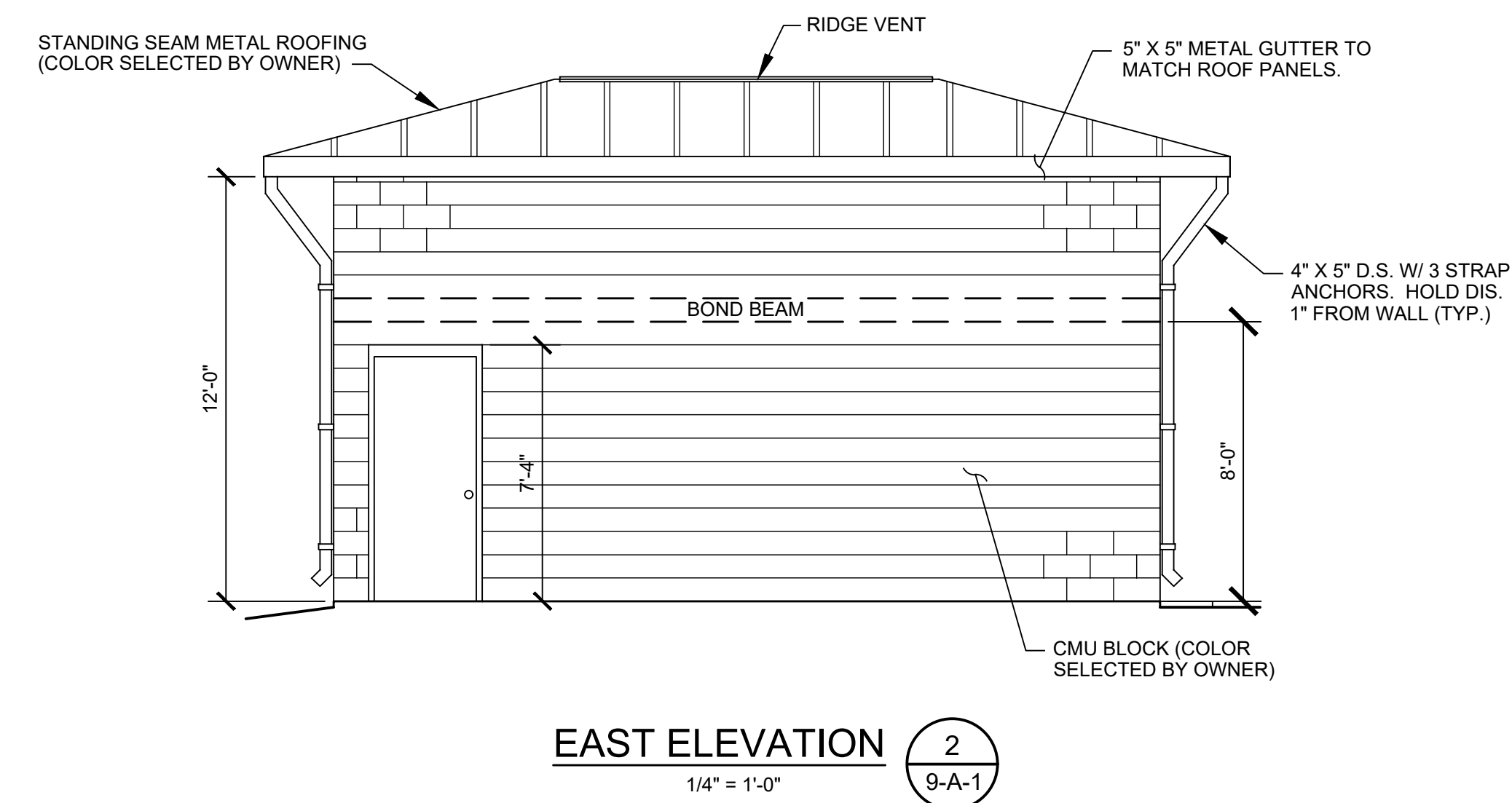
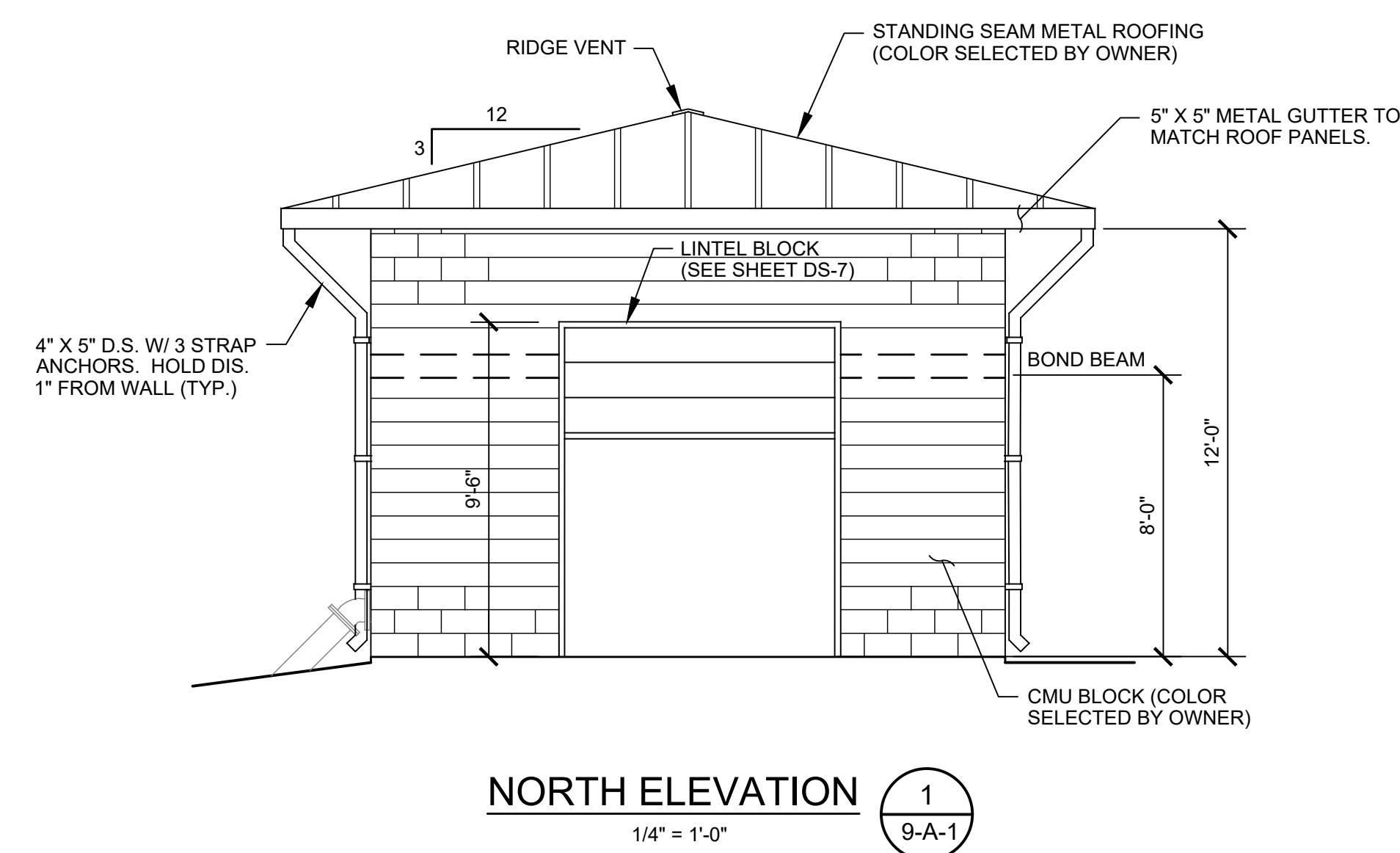
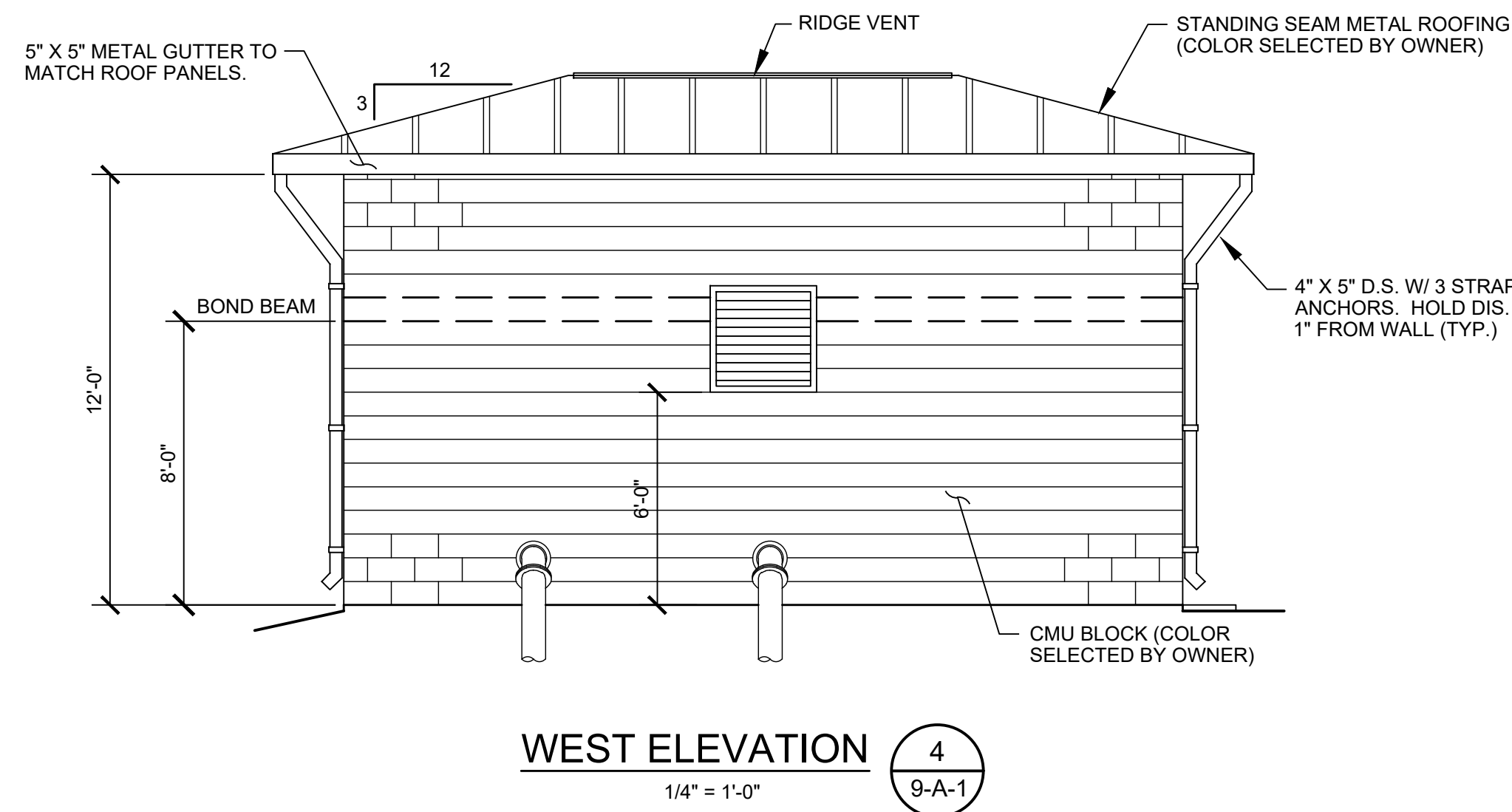
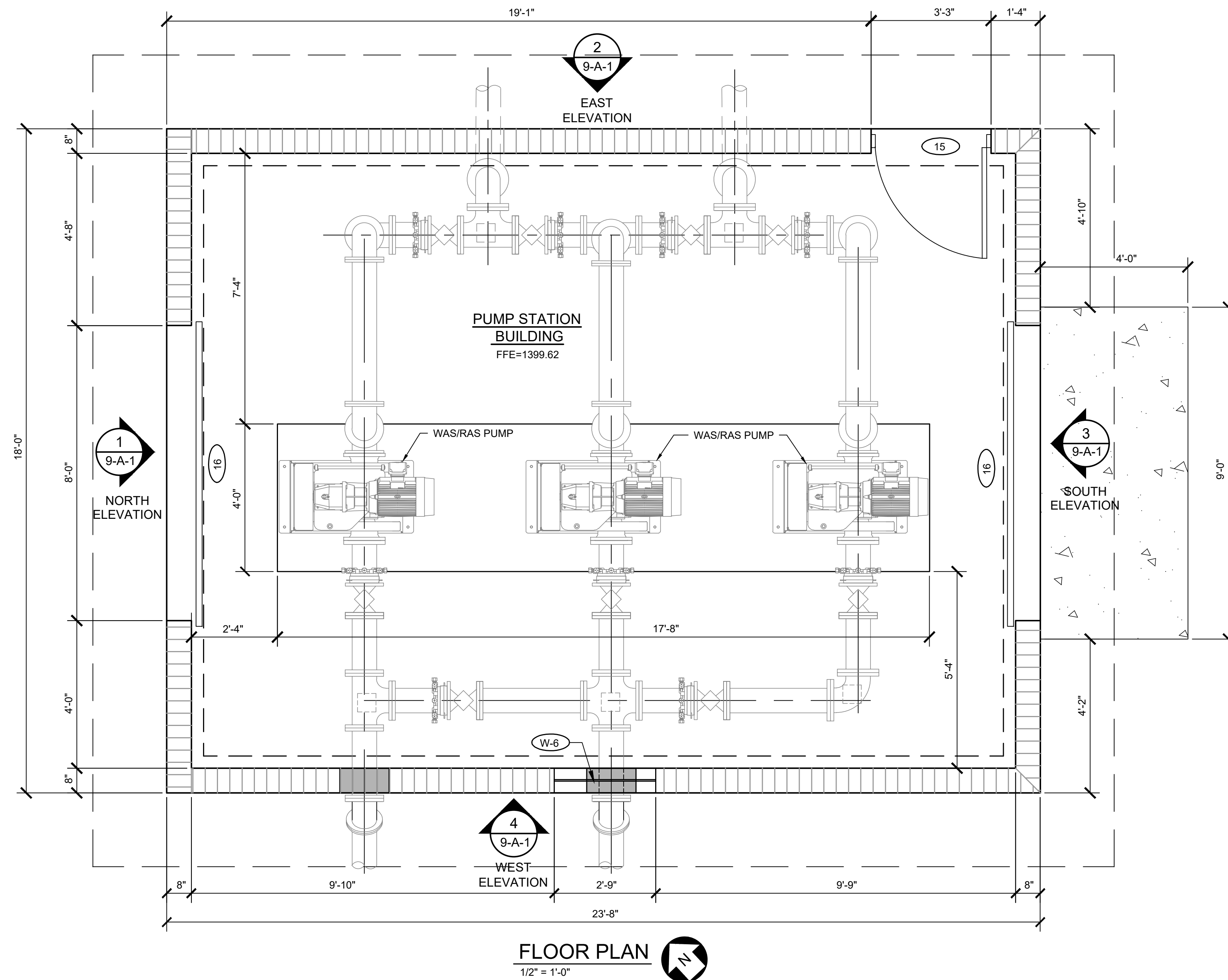


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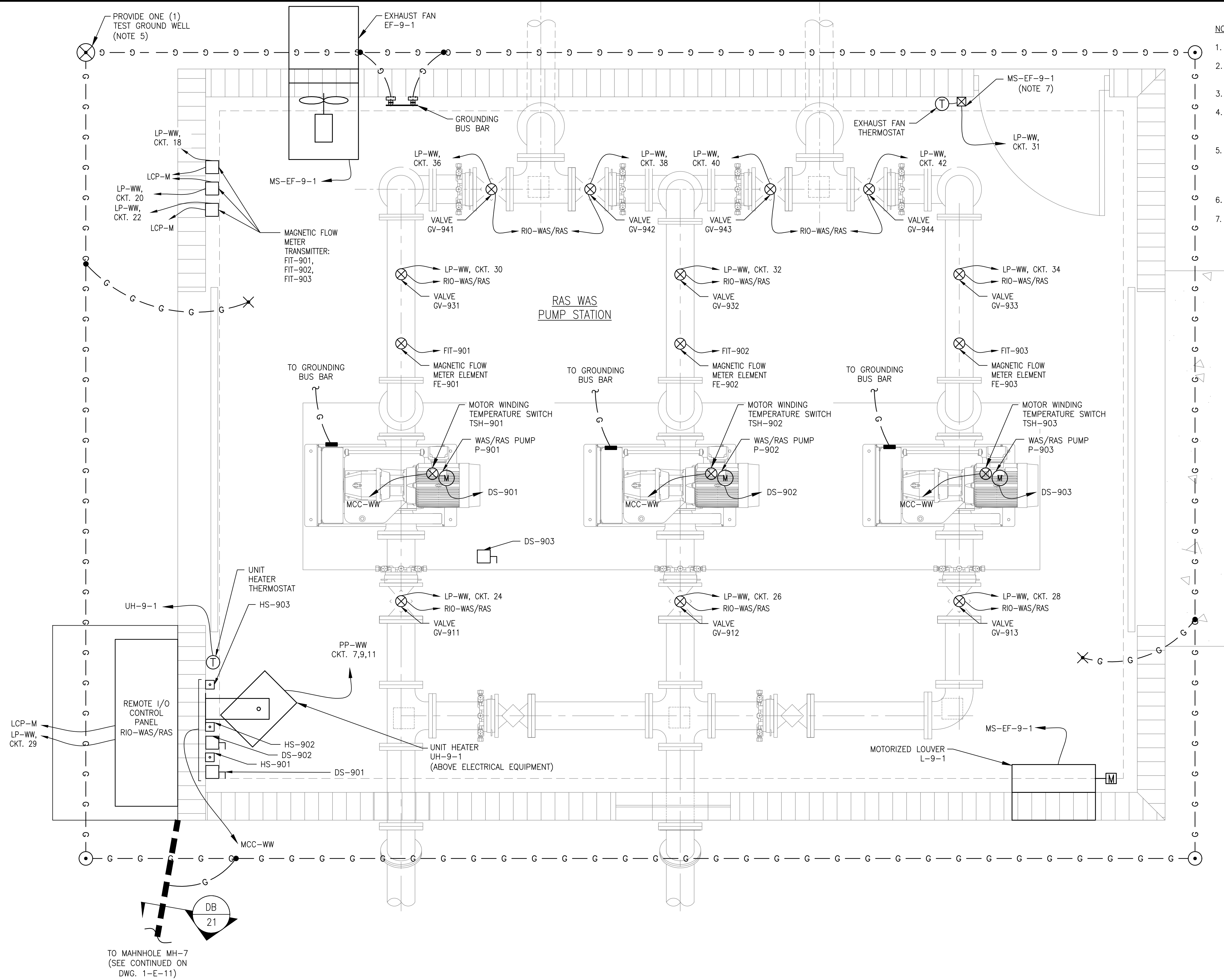
CITY OF CLEVELAND
WASTEWATER TREATMENT PLANT UPGRADES

WAS/RAS PUMP STATION PLAN AND ELEVATIONS

Drawn: AE	Design: AE	Checked: MM	Project No: R2019-111	Scale: AS SHOWN	Date: JULY 2022
9-A-1-WAS-RAS Pump Station.dwg					

Sheet No.

9-A-1



- NOTES:
- SEE DWG. 1-E-3 FOR DUCTBANKS SECTIONS.
 - CONTRACTOR SHALL PROVIDE AND INSTALL UNISTRUT FOR INSTALLATION OF ELECTRICAL EQUIPMENT. SEE DETAIL 2 ON DWG. DE-1 FOR TYPICAL INSTALLATION DETAILS.
 - THE EXACT DEVICE LOCATIONS SHALL BE CONFIRMED WITH APPROVED VENDOR DRAWINGS.
 - ALL NEW UNDERGROUND DUCTBANKS SHALL BE COORDINATED WITH THE EXISTING UTILITIES AND OTHER DISCIPLINES, AND ADJUSTED AS NECESSARY. INSTALL UNDERGROUND PULL BOXES AS REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE A GROUND GRID CONSISTING OF 3/4" DIA. X 10'-0" LONG COPPER CLAD GROUND RODS. THE RODS SHALL BE DRIVEN IN GROUND CONNECTED TOGETHER WITH #1 AWG BARE STRANDED COPPER CONDUCTORS. PROVIDE A GROUND WELL FOR ONE ROD. SEE DETAIL "4" ON DWG. DE-4 AND "1" ON DWG. DE-5 FOR GROUND WELL INSTALLATION DETAILS.
 - SEE DWG. H-4 FOR WAS RAS PUMP STATION BUILDING HVAC PLAN.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL A MANUAL MOTOR STARTER FOR THE FAN'S MOTOR HORSEPOWER. SEE DWG. 9-E-5 FOR THE MOTOR STARTER SCHEMATIC DIAGRAM. THE STARTER SHALL HAVE A NEMA 4X STAINLESS STEEL ENCLOSURE AND INCLUDE H-O-A SWITCH, AND 'RUNNING' INDICATING LIGHT. MOUNT THE MOTOR STARTER IN THE LOCATION SHOWN OR AS DIRECTED BY THE OWNER.

LEGEND:

— DIRECT BURIED UNDERGROUND DUCTBANK

EDEC, INC.
4120 CHATTAHOOCHEE TRACE
SUITE A
DULUTH, GEORGIA 30097
TEL. (770) 493-8685



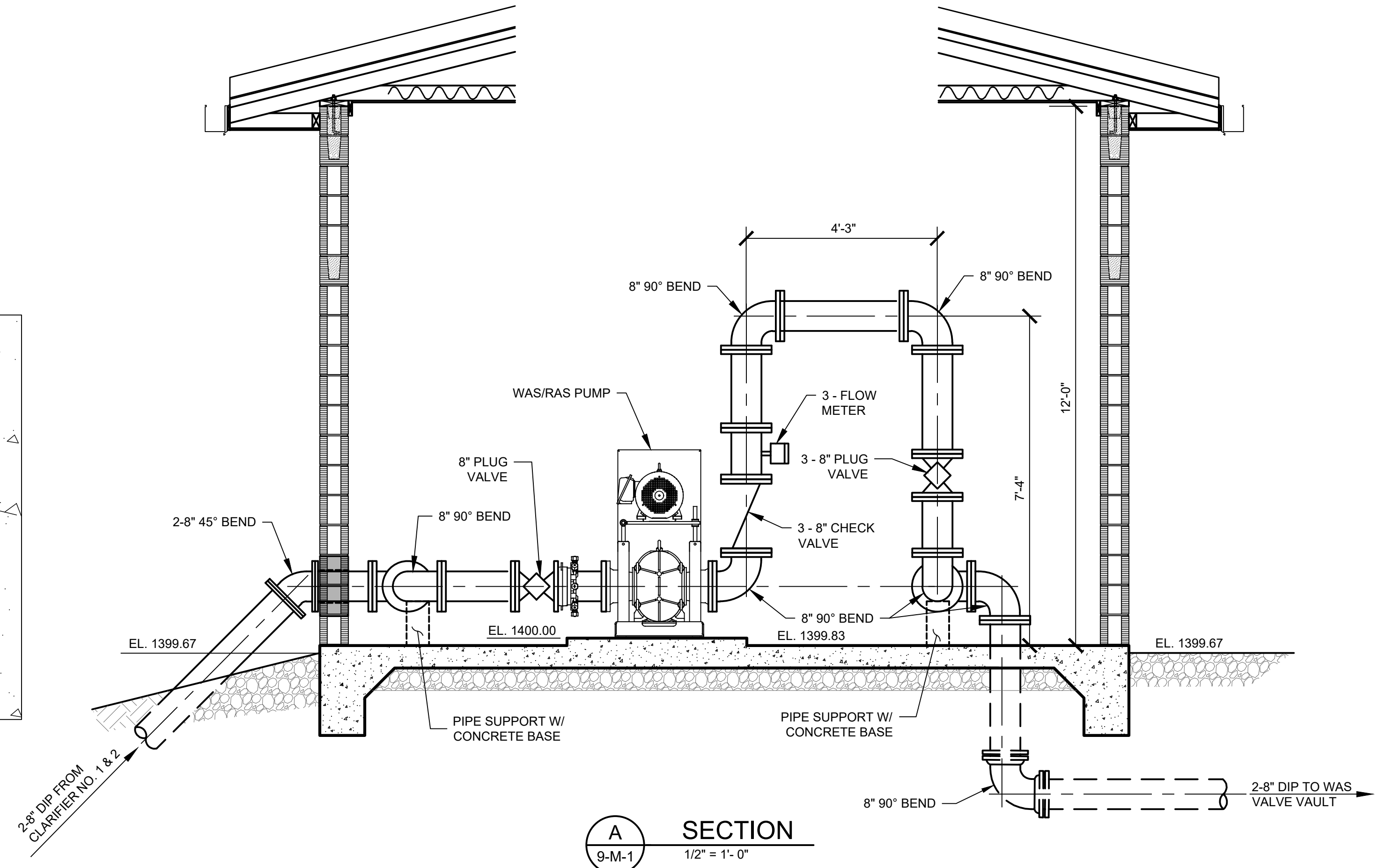
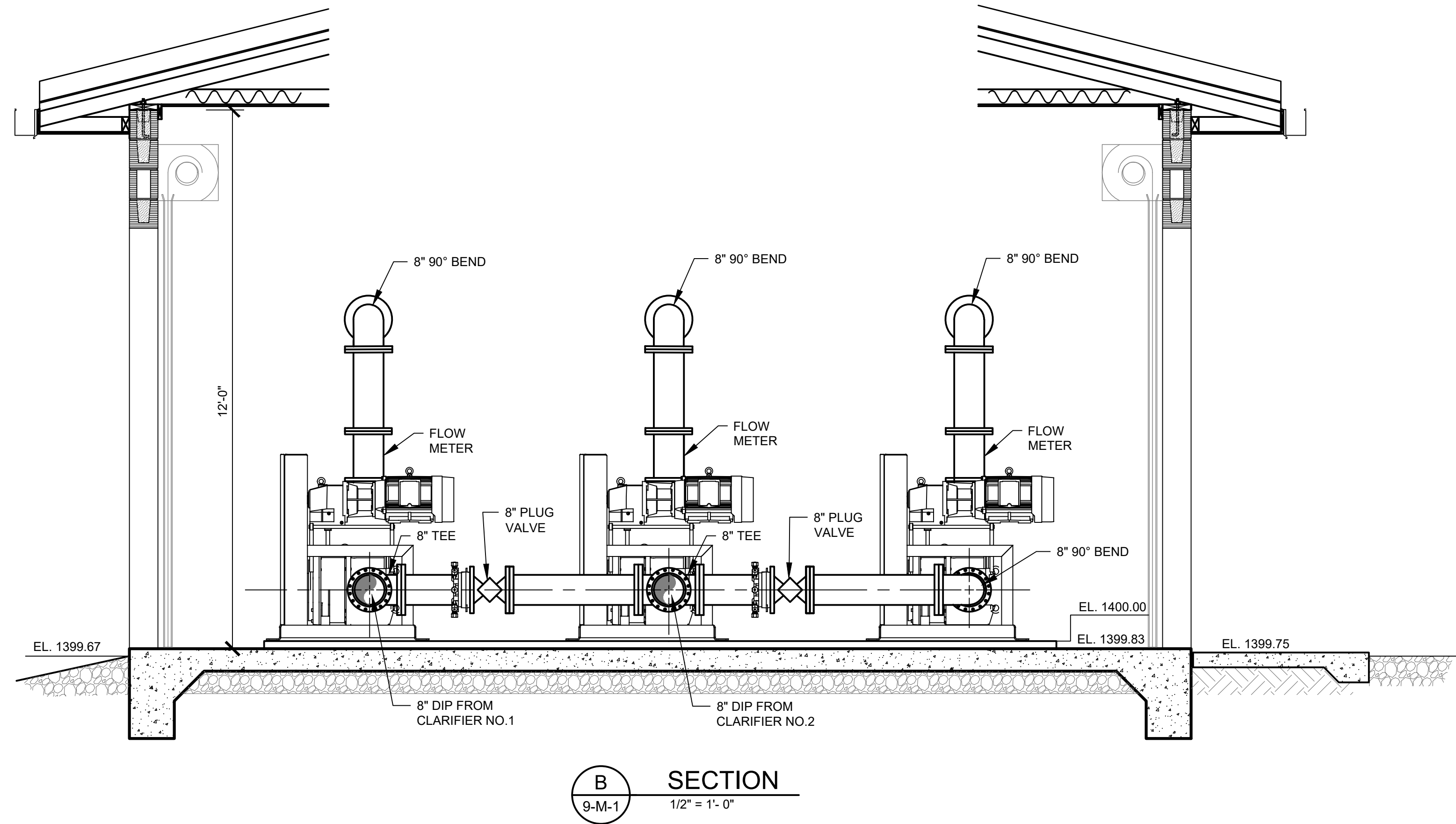
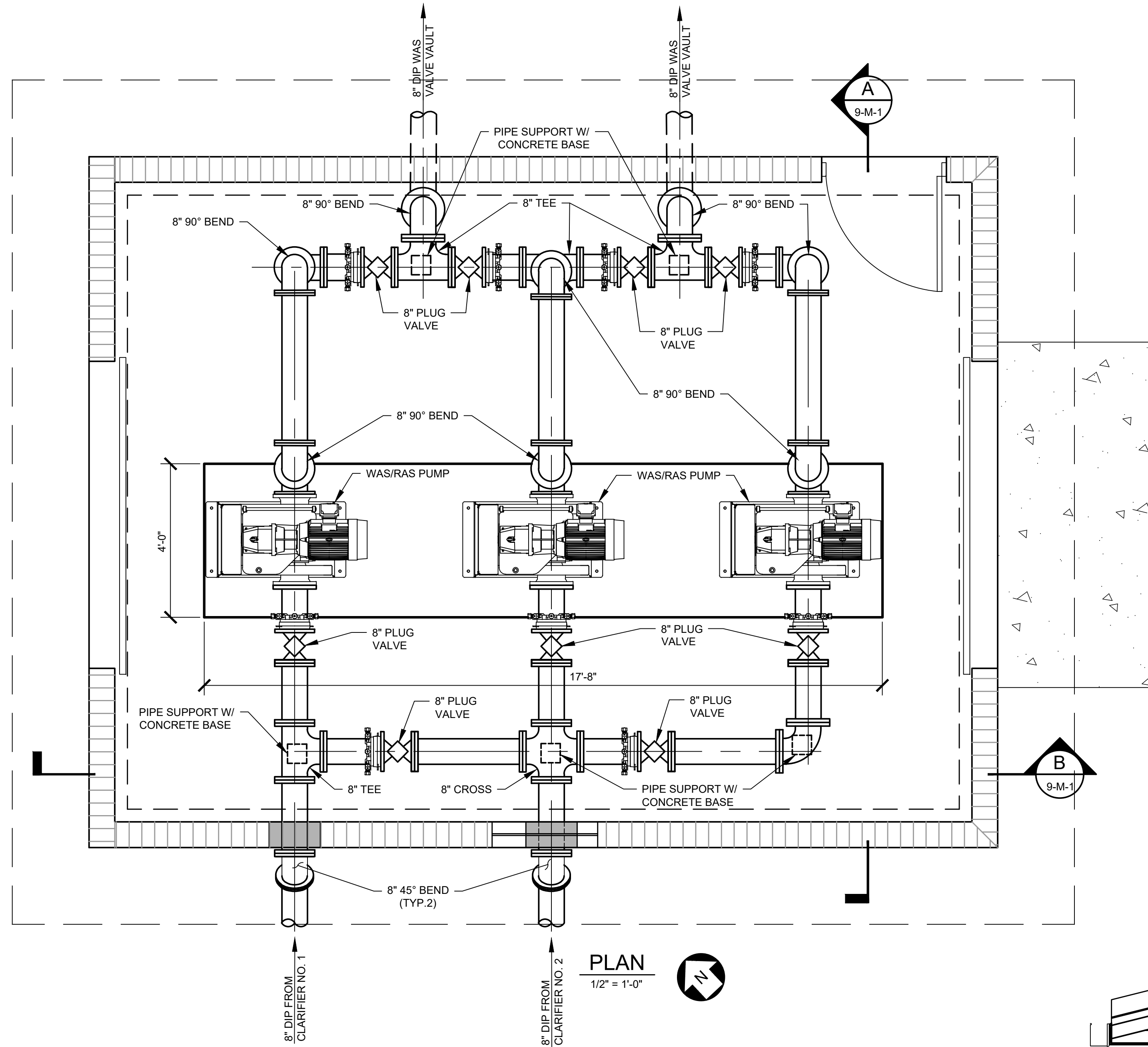
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CITY OF CLEVELAND
WASTEWATER TREATMENT PLANT UPGRADES
WAS/RAS PUMP STATION
ELECTRICAL PLAN

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Project No:	R2019-111
Scale:	AS SHOWN
Date:	JULY 2025

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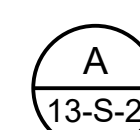
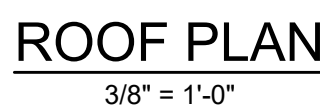
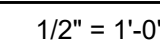
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CITY OF CLEVELAND
WASTEWATER TREATMENT PLANT UPGRADES
WAS/RAS PUMP STATION PLAN AND SECTION

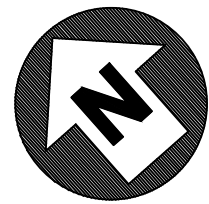
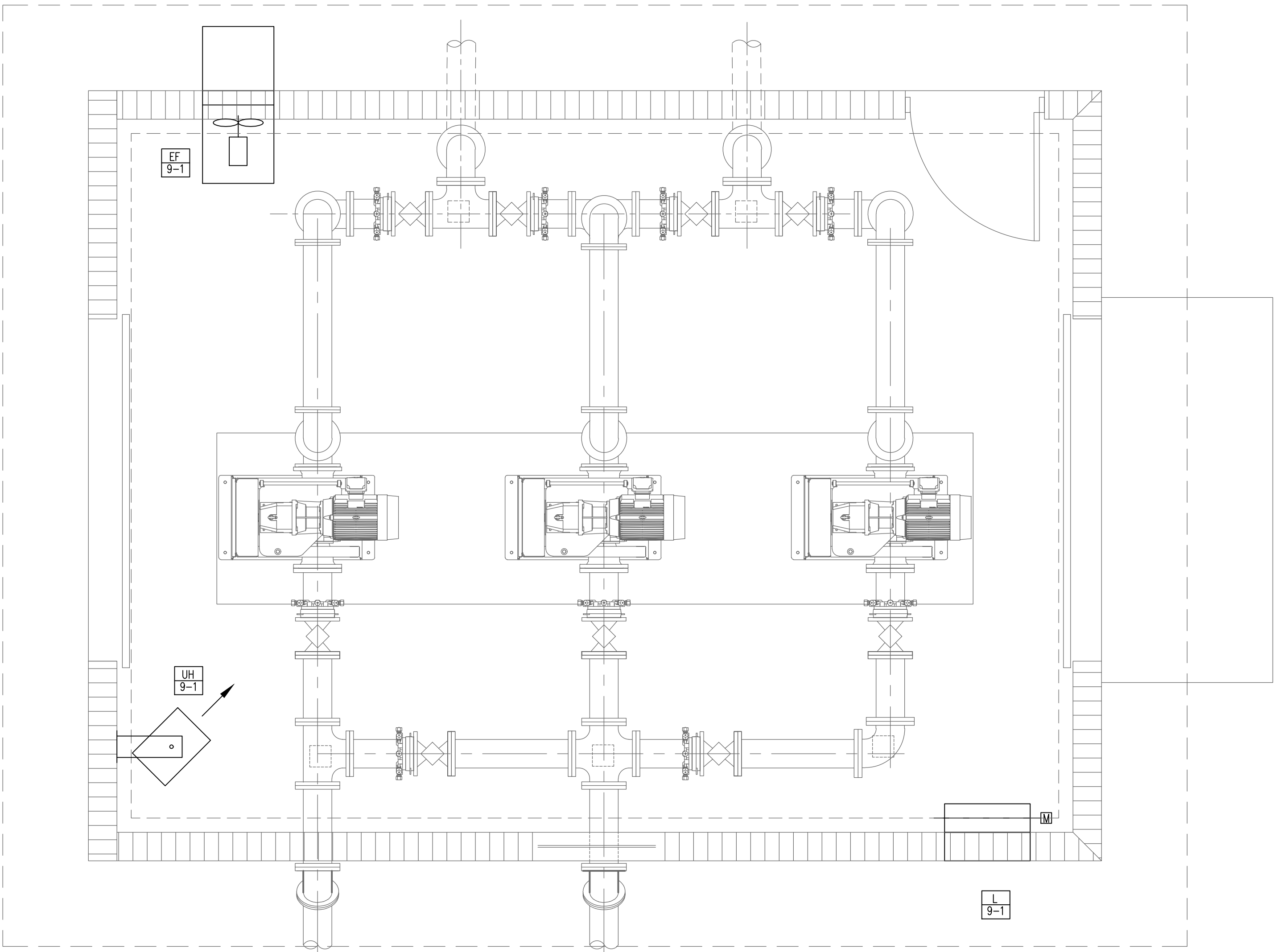
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9-M-1

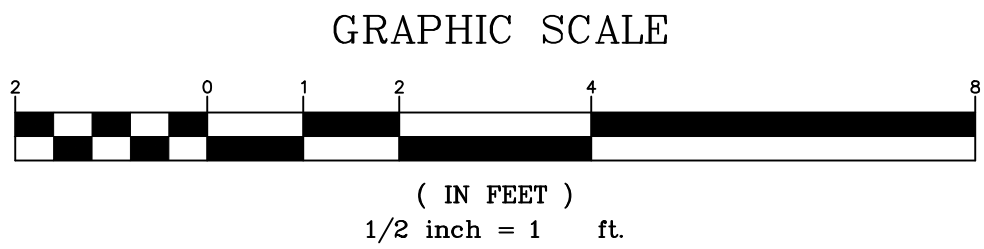

$$1/2'' = 1'-0''$$


WIND PRESSURE NOTES:

1. SEE "WIND DESIGN CRITERIA" NOTES ON S-1.0.
"2" = 4" OF 2" OR OVERLAPPING ZONE PRESSURES.
2. DESIGN PRESSURES ARE PROVIDED AT ULTIMATE DESIGN WIND SPEEDS. TO CONVERT TO NOMINAL DESIGN WIND SPEEDS (AS) MULTIPLY PRESSURE BY A FACTOR OF 0.60.
3. THE EFFECTIVE AREA SHALL BE DETERMINED AS FOLLOWS UNLESS OTHERWISE NOTED:
a. FOR SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE THIRD THE SPAN LENGTH.
b. THE AREA THAT IS TRIBUTARY TO AN INDIVIDUAL FASTENER.
4. NEGATIVE SIGN INDICATES PRESSURE ACTING OUTWARD FROM SURFACE.



1 WAS RAS PUMP STATION BUILDING HVAC PLAN
SCALE: 1/2" = 1'

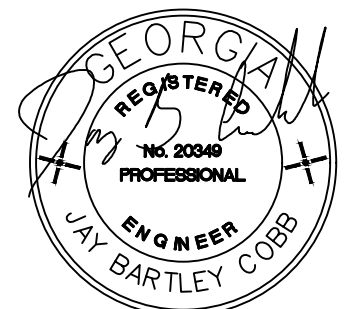


HVAC SYMBOLS AND ABBREVIATIONS

	SUPPLY AIR DUCT UP/DOWN	CHWR	CHILLED WATER RETURN
	RETURN/EXHAUST AIR DUCT UP/DOWN	CHWS	CHILLED WATER SUPPLY
	NEW DUCTWORK	CU-*	CONDENSING UNIT
	FLEXIBLE DUCT	DIA.	DIAMETER
	VOLUME DAMPER	EF-*	EXHAUST FAN
	SUPPLY DIFFUSER	ES	EQUAL SPLIT
	RETURN OR EXHAUST GRILLE	FIL-*	FILTER
	THERMOSTAT	F-*	FURNACE
	PRESSURE SENSOR	GA	GAUGE
	SMOKE DETECTOR	OA	OUTSIDE AIR
	FIRE DAMPER	OE	OPEN ENDED DUCT
	FIRE/SMOKE DAMPER	SD	SPLITTER DAMPER
	PIPE TURNED DOWN	U/G	UNDERGROUND
	PIPE TURNED UP	UH-*	UNIT HEATER
	BRANCH PIPE OFF MAIN	VD	VOLUME DAMPER
	CUBIC FEET PER MINUTE	A/C-*	AIR CONDITIONING SYSTEM
	MOTOR OPERATOR	AFF	ABOVE FINISHED FLOOR
		AHU-*	AIR HANDLING UNIT

J. B. Cobb Engineering, LLC
Mechanical/Industrial
Office: (678) 363-8754 97 Lakewood Drive
Since 1997 Duluth, GA 30132
Cell Phone: (404) 403-2126 jbcobbpe@bellsouth.net

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4120 CHATTAHOOCHEE TRACE
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CITY OF CLEVELAND
WASTEWATER TREATMENT PLANT UPGRADES

WAS RAS PUMP STATION BUILDING HVAC PLAN

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Design: JBC
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Sheet No.
H-4

