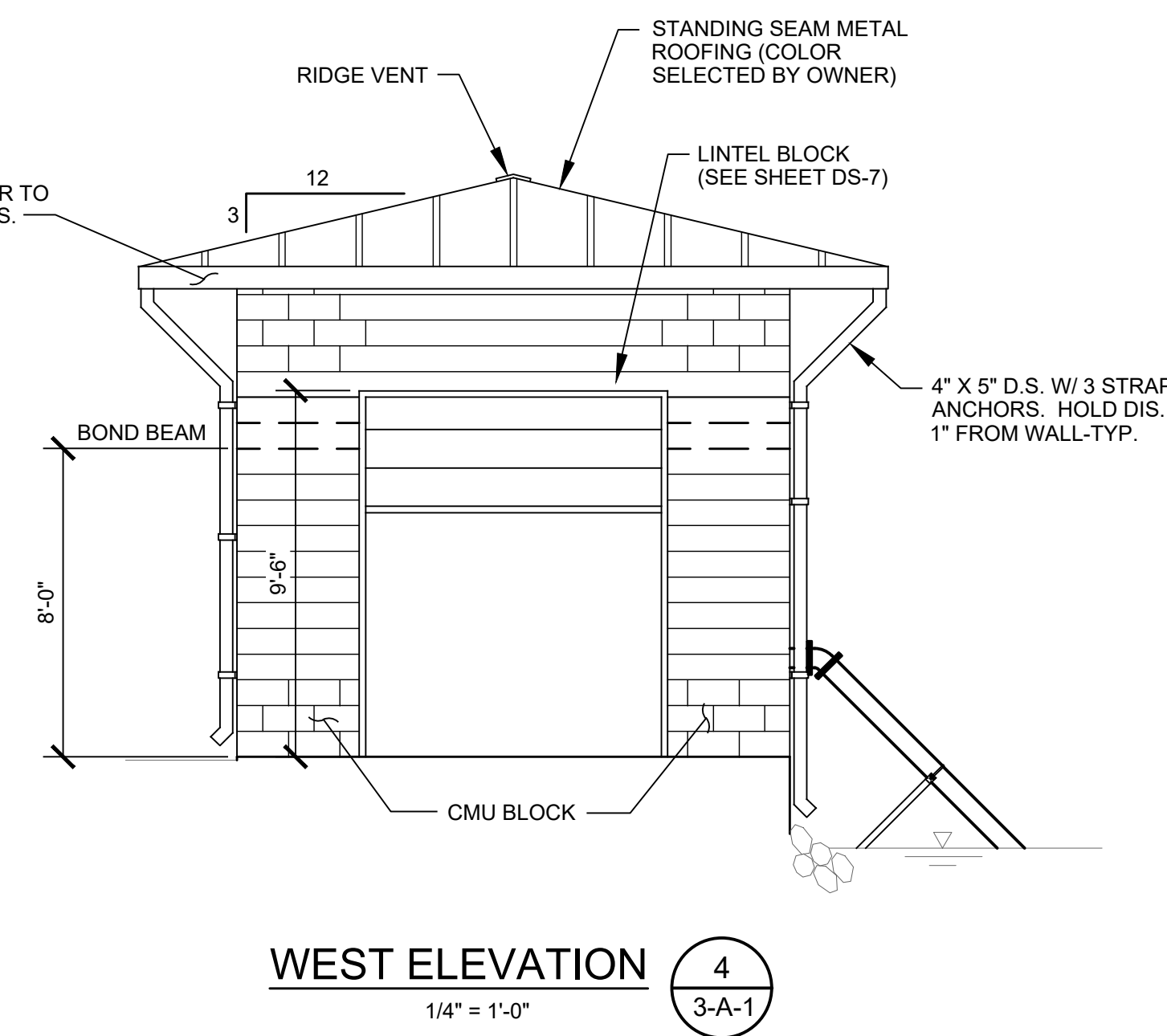
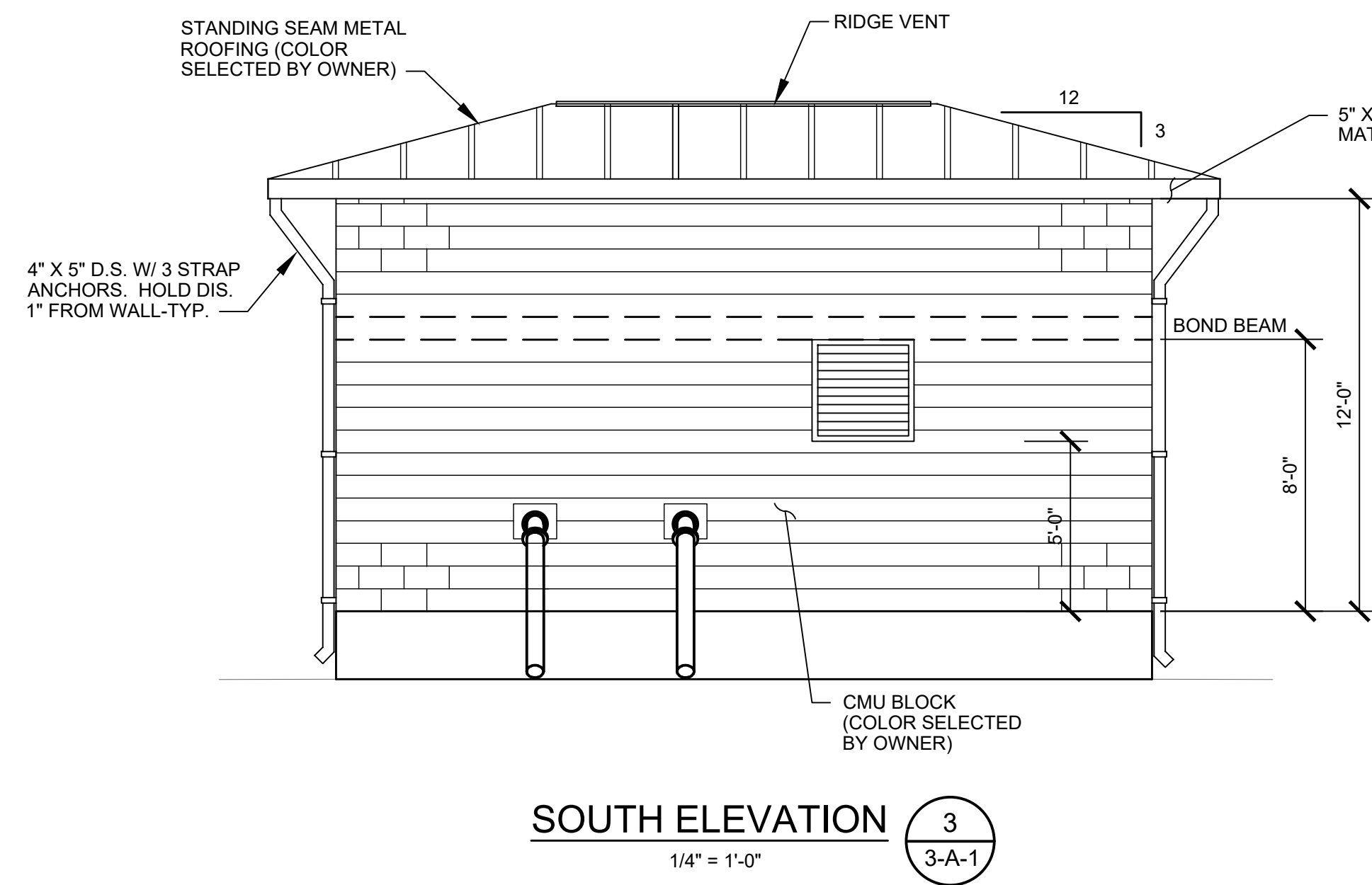
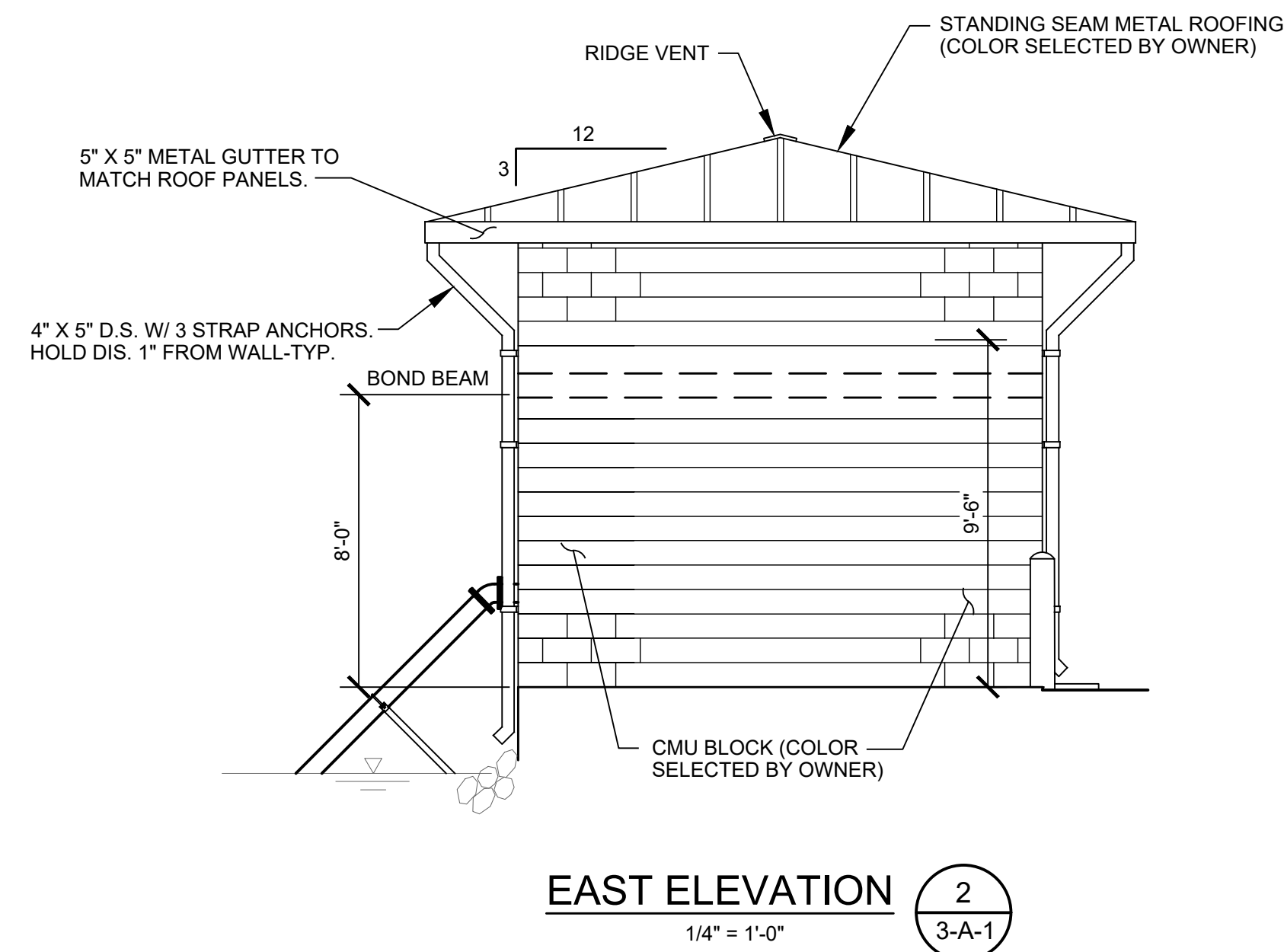
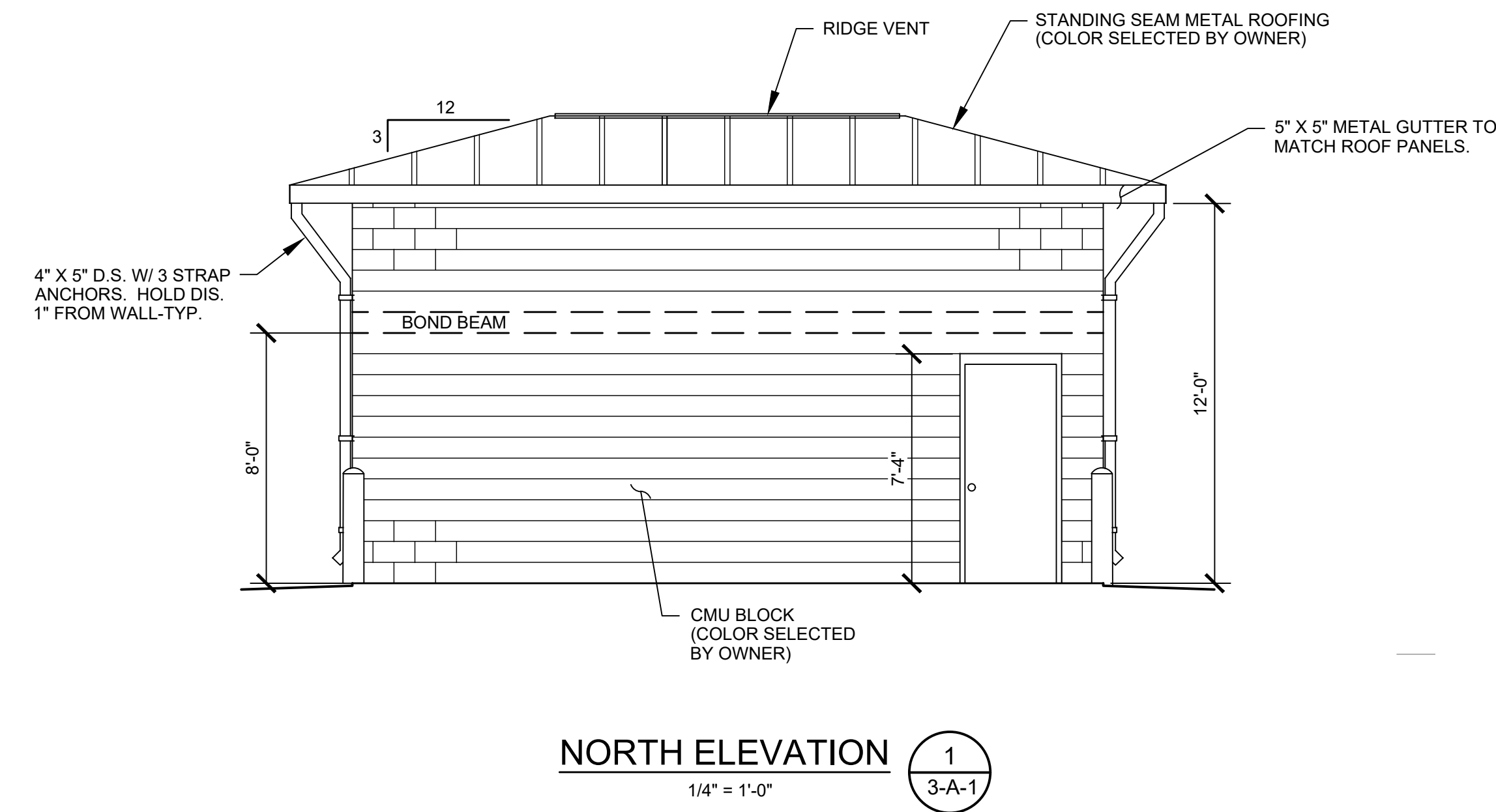
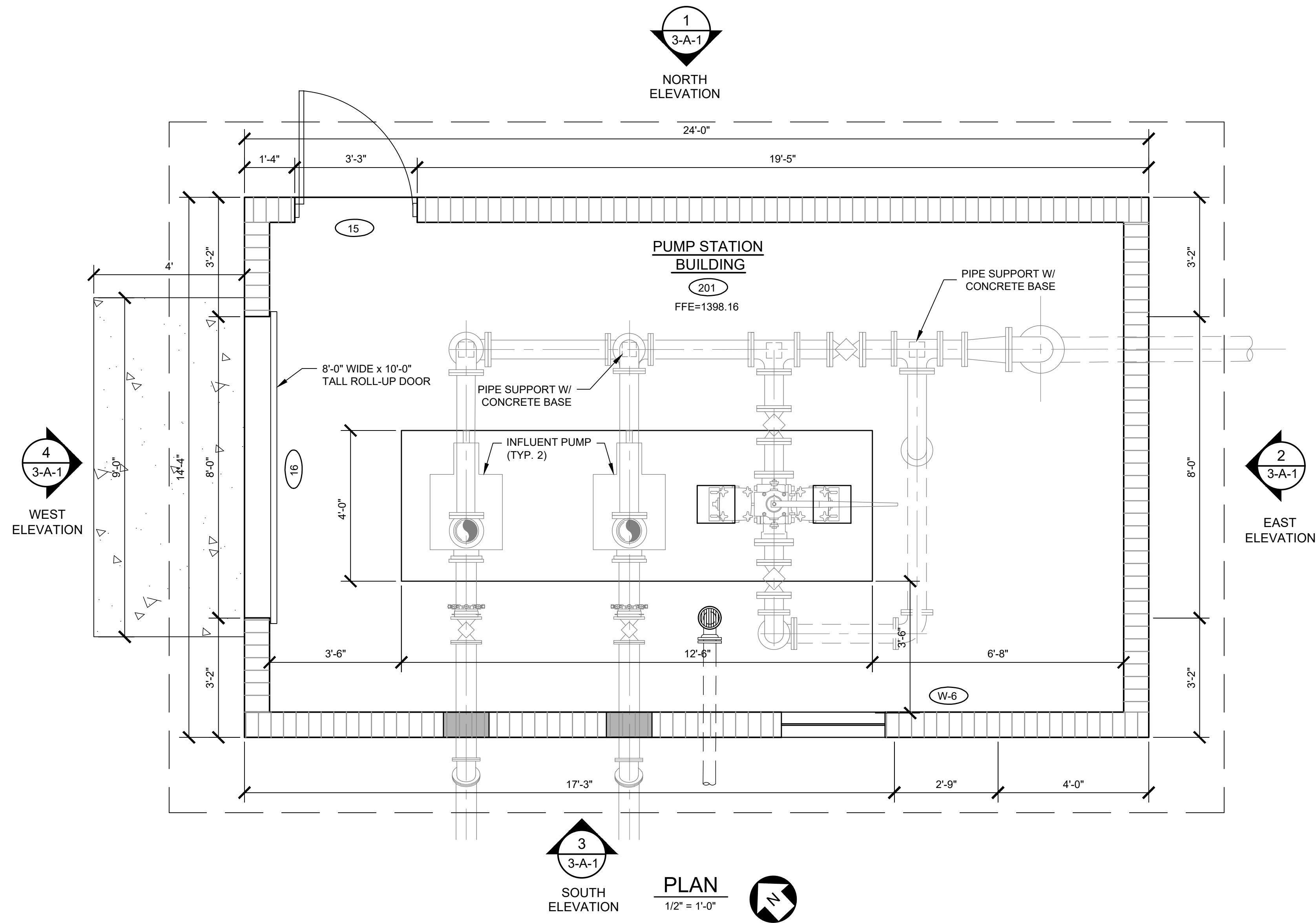


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No.	Revisions	Initial	Date
1	RELEASED FOR BID	MM	7-31-2025

**RINDT**  
ENGINEERING + ENVIRONMENTAL

**CITY OF CLEVELAND**  
WASTEWATER TREATMENT PLANT UPGRADES  
INFLUENT PUMPS PLAN AND ELEVATIONS

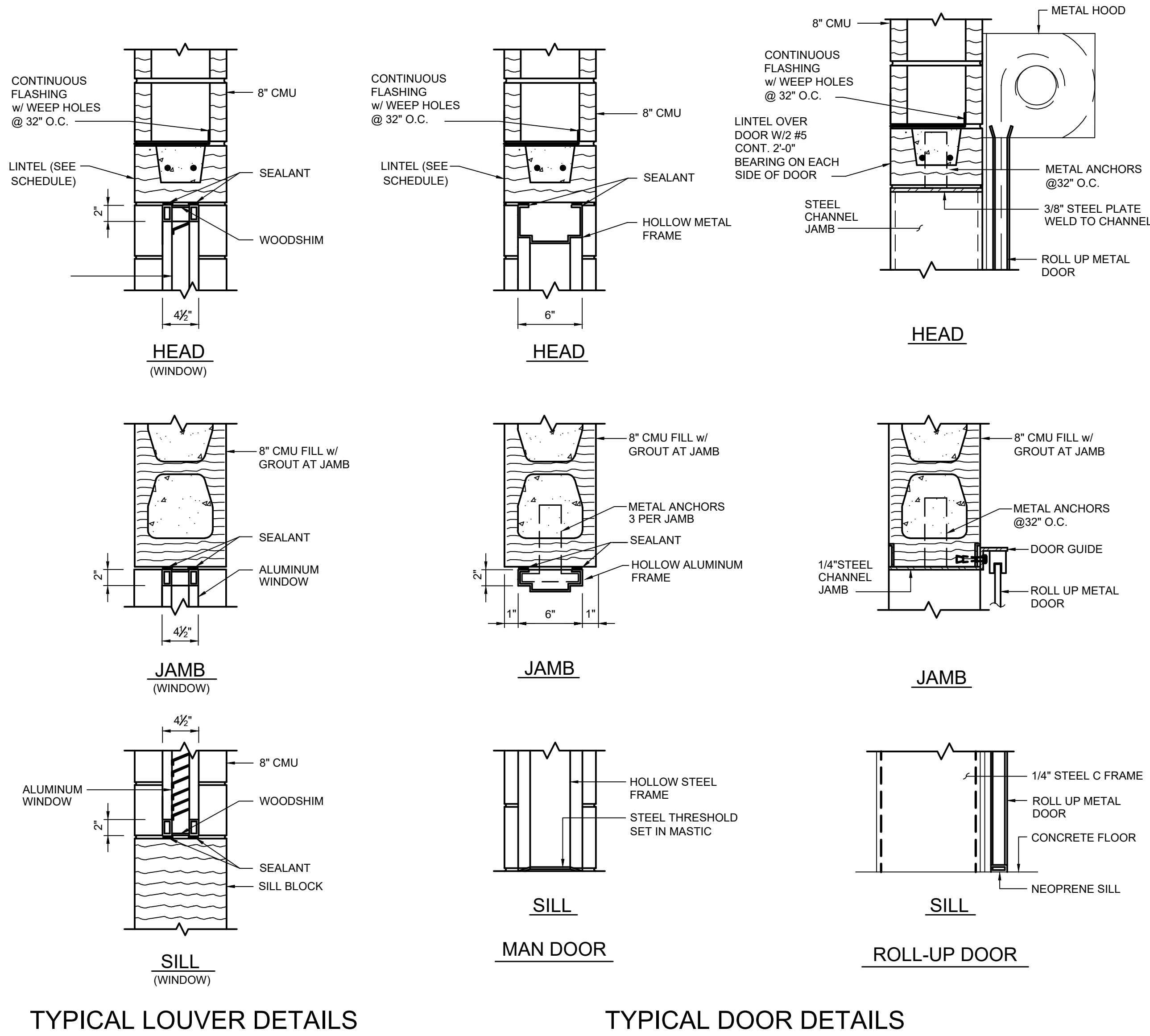
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3-M-1-Influent Pump Station.dwg					

Sheet No.

3-A-1



Z:\Projects\2019\2019-111 Cleveland - WWTTP Expansion\06 Drawings\Area 03 - Influent Pump Station\3-M-1-Influent Pump Station.dwg 08/01/2025 1:25pm aencarnacion



ELEVATION	DOOR SCHEDULE		LOUVER SCHEDULE
	MARK	16	15
	SIZE	8'-0"x10'-0"	
	TYPE	ROLL-UP INSULATED	INSULATED HOLLOW METAL
	FRAME		2"x5 3/4" HOLLOW METAL
	HEAD		
	JAMB		
	SILL		
	HARDWARE SET		



No.	Revisions	Initial	Date
1	RELEASED FOR BID	MM	7-31-2025

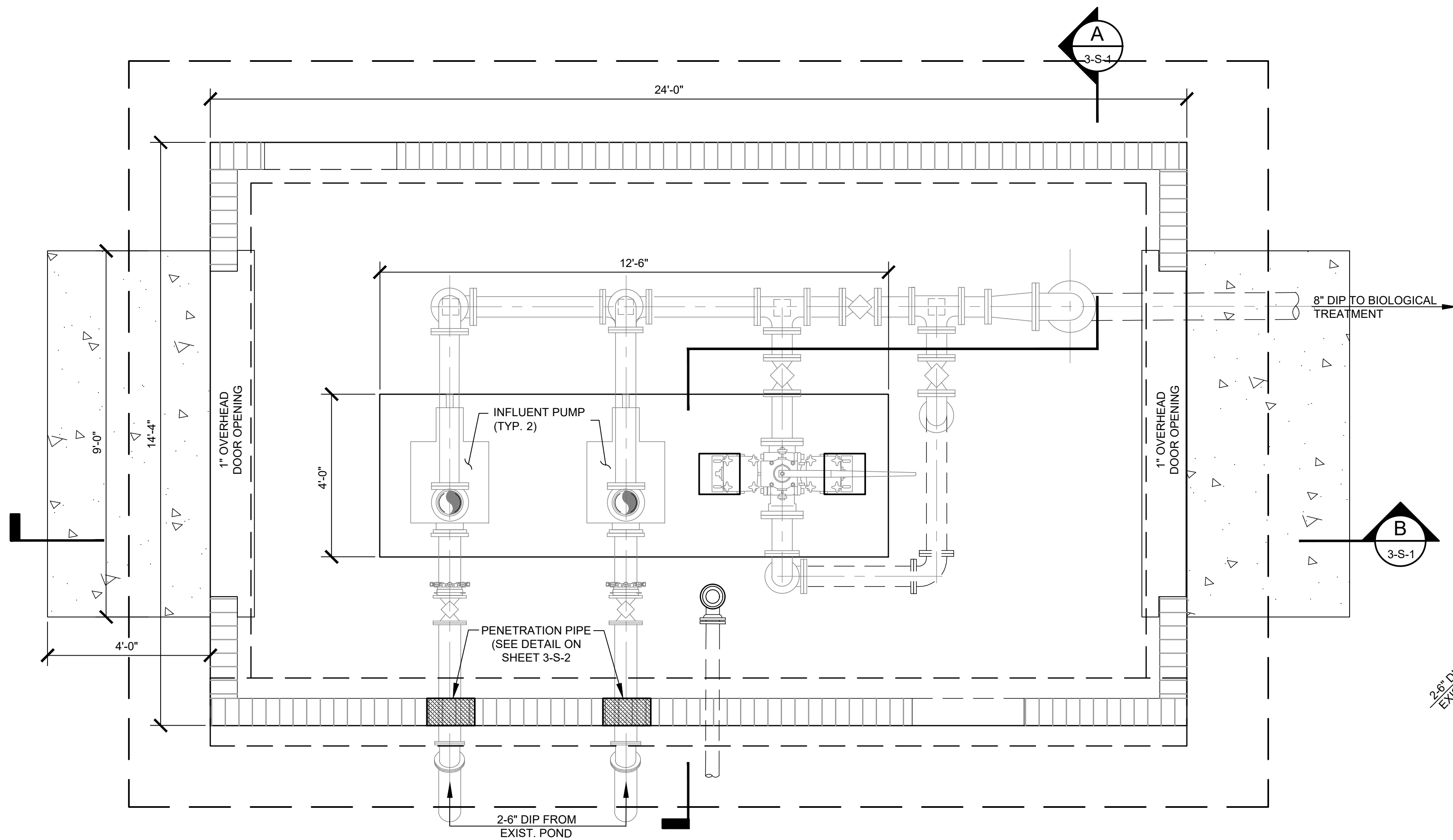


CITY OF CLEVELAND  
WASTEWATER TREATMENT PLANT UPGRADES  
INFLUENT PUMP STATIONS  
SCHEDULE DOOR AND WINDOW DETAILS

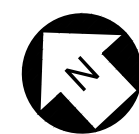
Drawn: AE	Design: AE	Checked: MM	Project No: R2019-111	Date: JULY 2022
Scale: AS SHOWN				3-M-1-Influent Pump Station.dwg



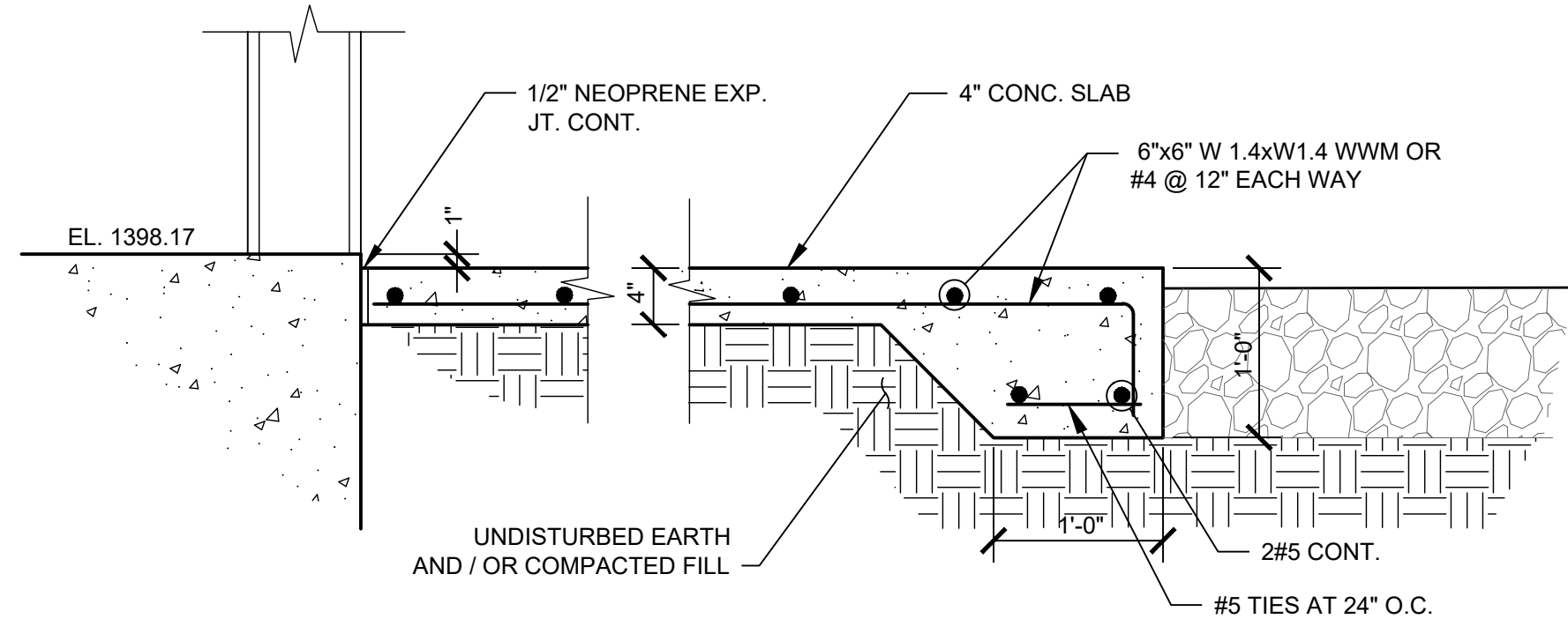
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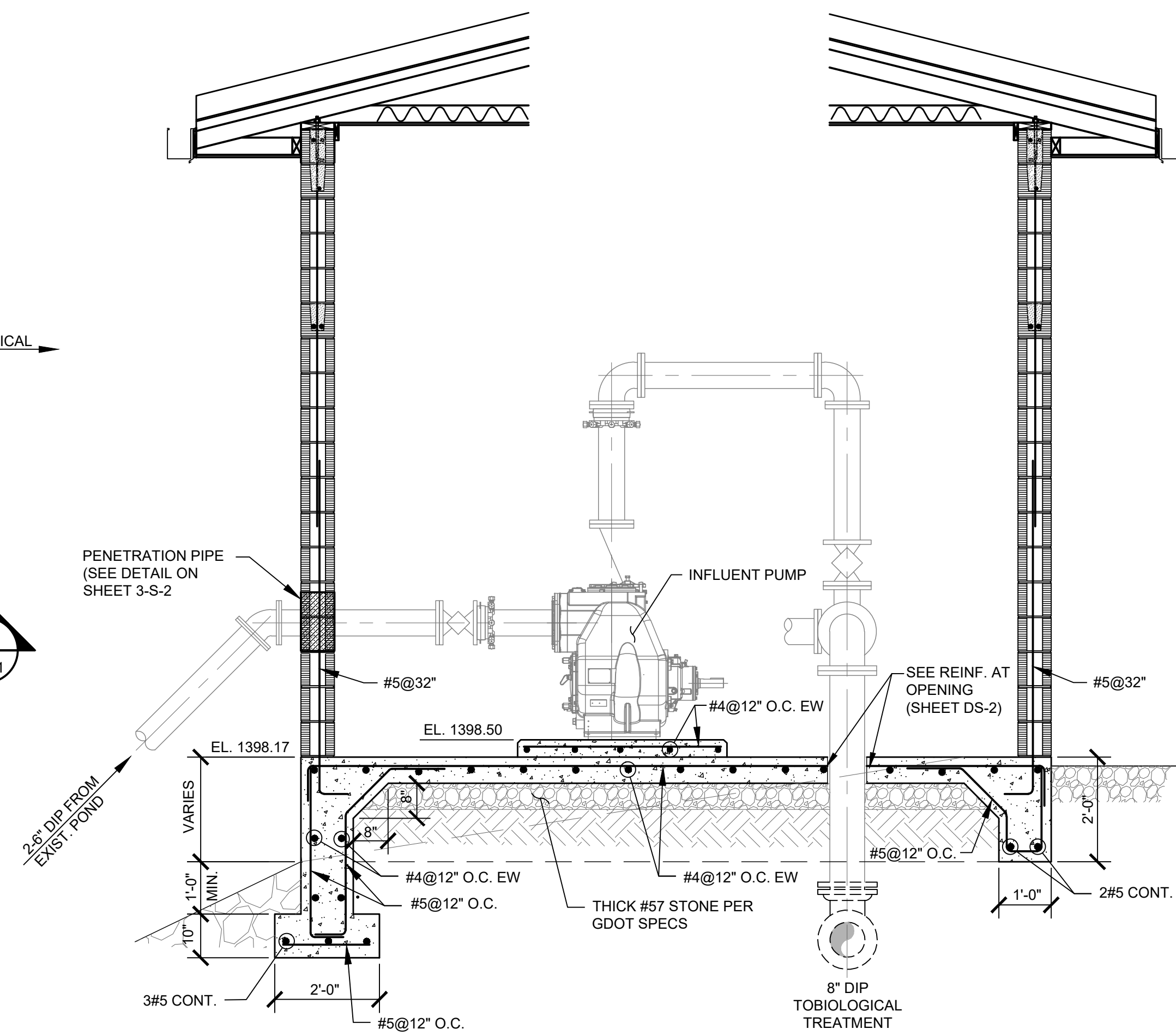
PLAN  
1/2" = 1'-0"



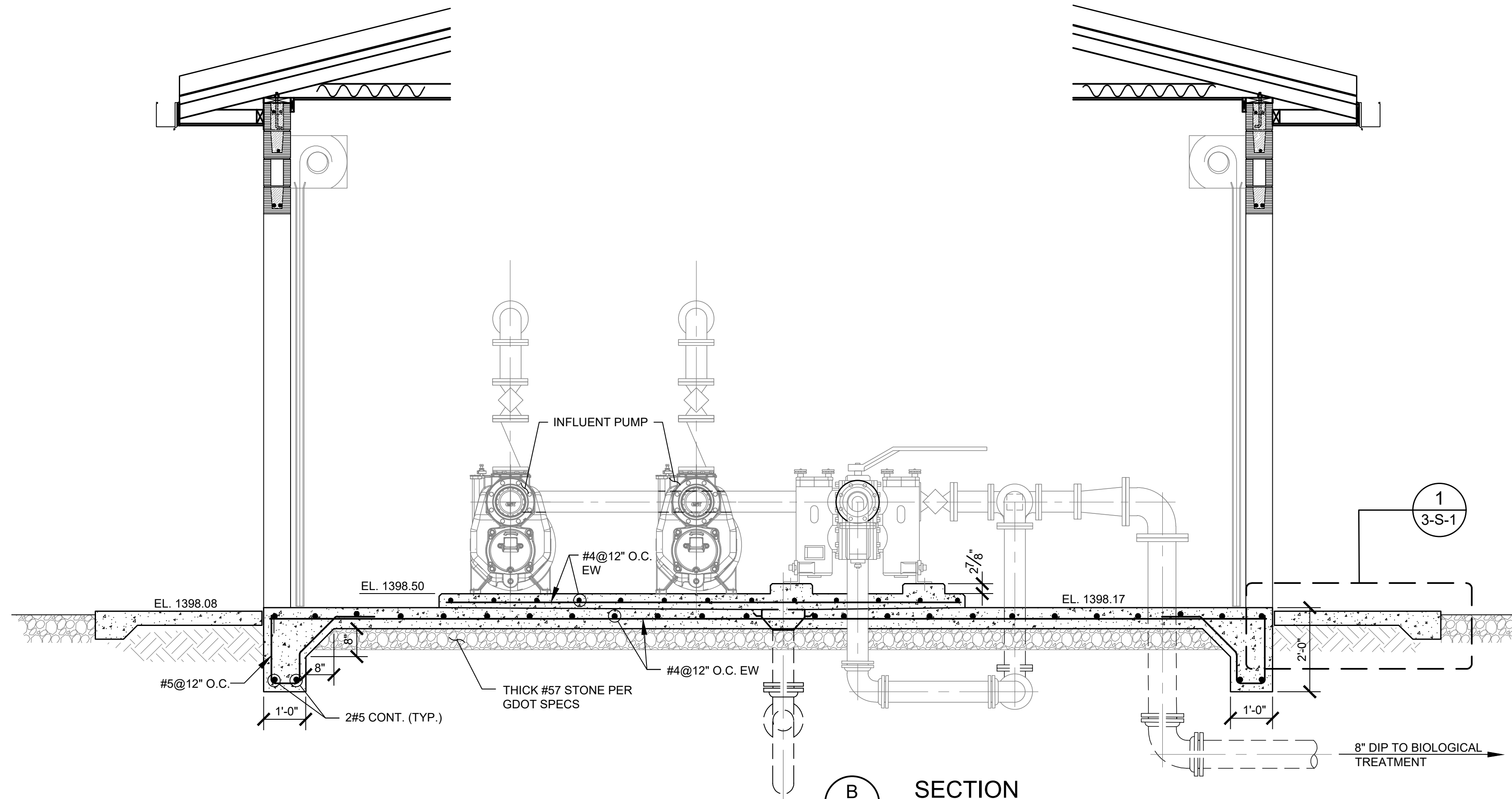
NOTE:  
MASONRY CONTROL JOINTS AND HORIZONTAL REINFORCING, SEE STRUCTURAL  
DETAIL ON SHEET- DS-7.



1  
3-S-1  
DETAIL  
1" = 1'-0"



A  
3-S-1  
SECTION  
1/2" = 1'-0"



B  
3-S-1  
SECTION  
1/2" = 1'-0"



Initial	Date	Revisions	No.
MM	7-31-2025	RELEASED FOR BID	1

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CITY OF CLEVELAND  
WASTEWATER TREATMENT PLANT UPGRADES

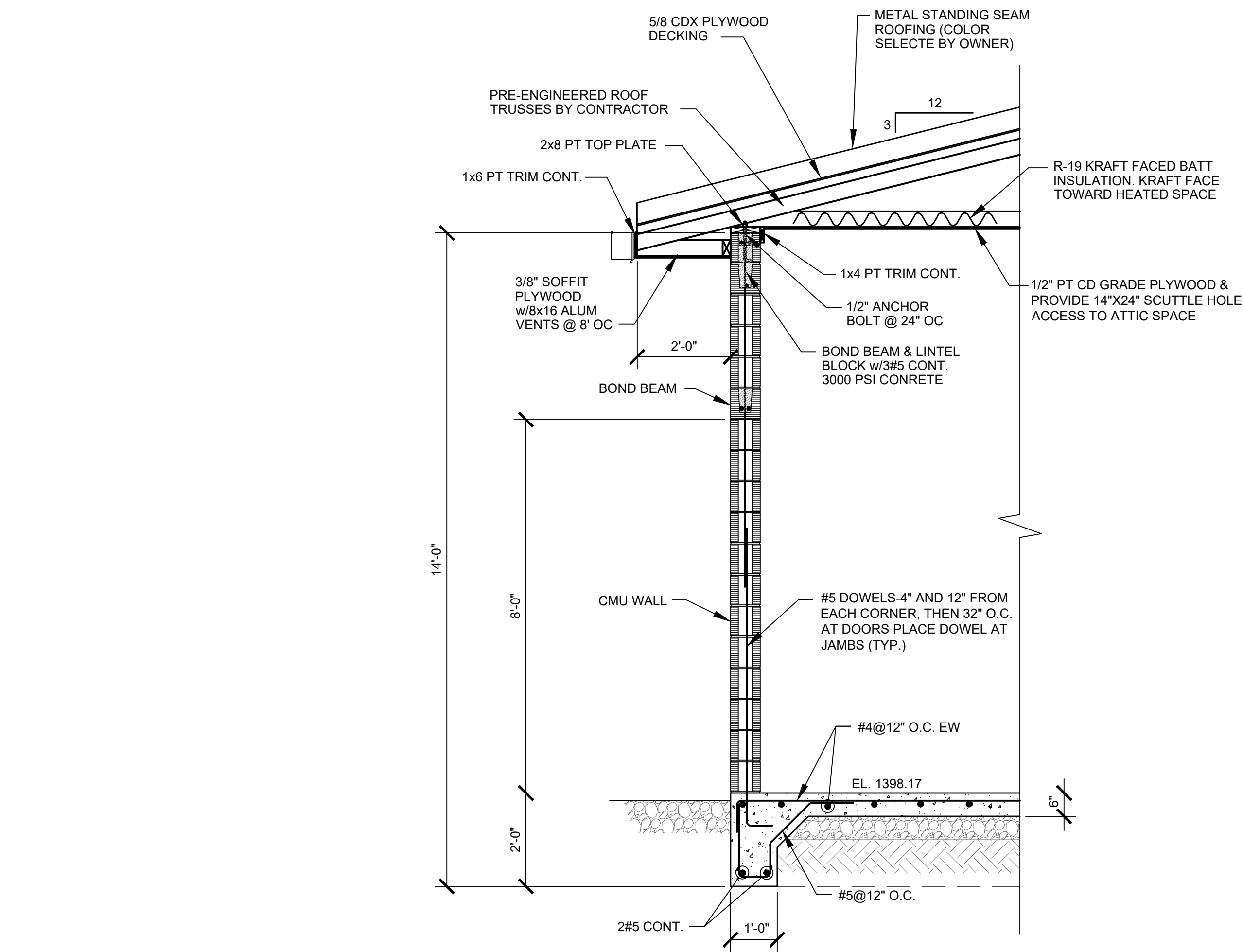
INFLUENT PUMPS PLAN AND SECTION

Drawn: AE	Design: AE	Checked: MM	Project No: R2019-111	Date: JULY 2022
Scale: AS SHOWN				3-S-1-Influent Pump Station.dwg

Sheet No.

3-S-1





## ROOF PLAN



BLOWER AND CHLORINATION SYSTEM CANOPIES						
WIND DESIGN PRESSURES COMPONENTE CLADDING, PSF (LFRD)						
ROOF						
EFFECTIVE AREA (SF)	ZONE 1		ZONE 2		ZONE 3	
	(+)	(-)	(+)	(-)	(+)	(-)
10	20	-44	31	-67	40	-132
25	20	-44	31	-67	31	-67
50	20	-44	31	-67	31	-67

WALLS (WHERE OCCURS)				
EFFECTIVE AREA (SF)	ZONE 4 (FIELD)		ZONE 5 (CORNERS)	
	(+)	(-)	(+)	(-)
<10	51	-56	51	-69
50	46	-51	46	-58
200	42	-46	42	-49
>500	38	-43	38	-43

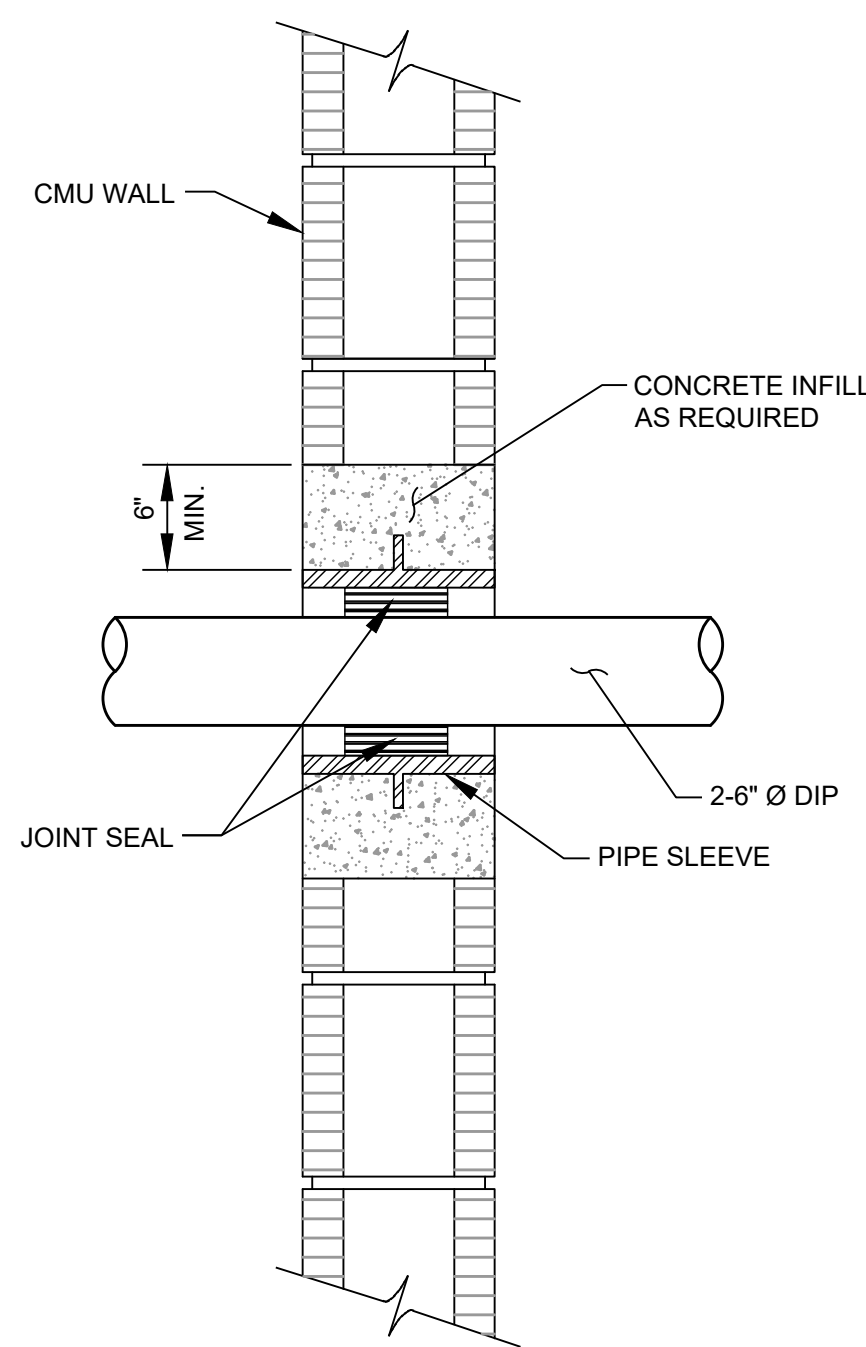
Diagram illustrating the wind pressure zones for a canopy. The top view shows a rectangular area with a dashed inner rectangle. Zone 1 is the central field, and Zones 2, 3, 4, and 5 are the perimeter zones. The side view shows the canopy's profile with Zone 4 in the field and Zone 5 at the corners. Dimensions include 4'-6" typical overhang and 30" height.

**WIND PRESSURE NOTES:**

1. SEE "WIND DESIGN CRITERIA" NOTES ON G-10.
2. "a" - 4'-6". OH = OVERHANG ZONE PRESSURES.
3. DESIGN PRESSURES ARE PROVIDED AT ULTIMATE DESIGN WIND SPEEDS. TO CONVERT TO NOMINAL DESIGN WIND SPEEDS (ASD) MULTIPLE PRESSURES BY FACTOR OF 0.60.
4. THE EFFECTIVE AREA SHOULD BE DETERMINED AS FOLLOWS UNLESS OTHERWISE NOTED:
  - a. THE 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.
5. NEGATIVE SIGN INDICATES PRESSURE ACTING OUTWARD FROM SURFACE.

ENCLOSURE CLASSIFICATION

OPEN (OBSTRUCTED)



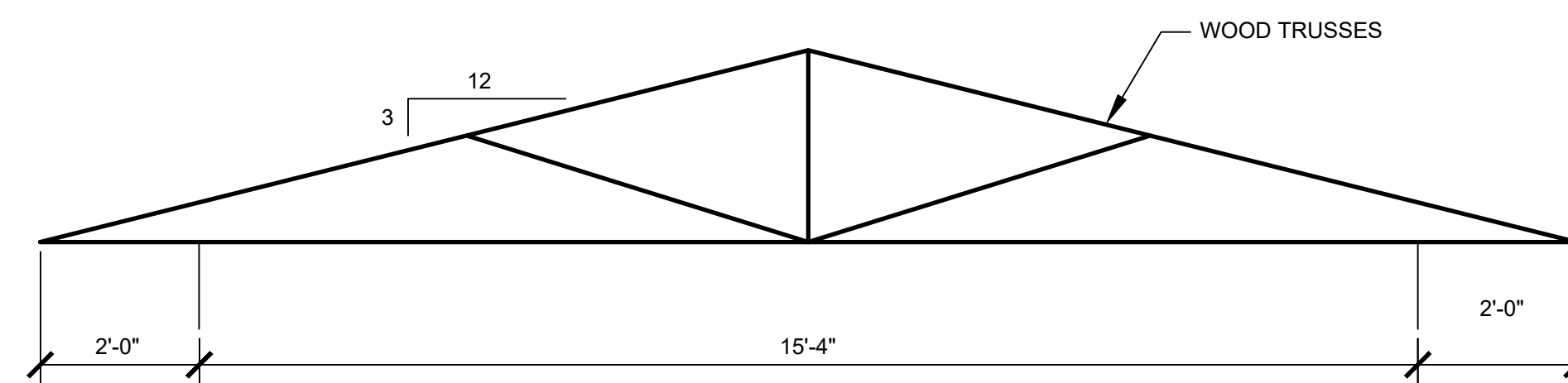
MASONRY PIPE PENETRATION DETAIL

---

N.T.S.

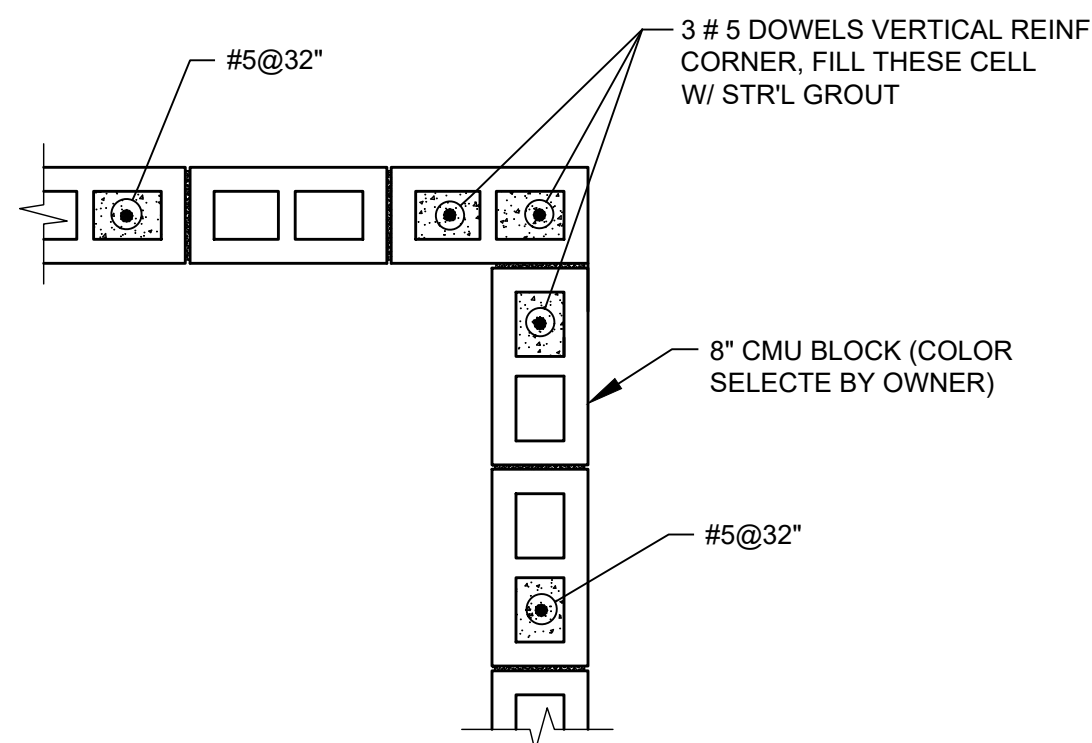
N.T.S.

A  
13-S-2



**NOTE:**  
BOTTOM CHORD TO BE DESIGNED  
PROVIDED BY THE CONTRACTOR

TRUSS DETAIL  
1/2" = 1'-0"



**NOTE:**  
FOR HORIZONTAL REINFORCEMENT SEE DETAILS  
ON SHEET DS-7.

1 CORNER CONCRETE BLOCK  
13-S-1 3/4" = 1'-0"

$$3/4" = 1'-0"$$


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CITY OF CLEVELAND  
WASTEWATER TREATMENT PLANT UPGRADES

INFLUENT PUMPS ROOF PLAN AND SECTION

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Design: AE
Checked: MM
Project No: R2019-111
Scale: AS SHOWN
Date: JULY 2022

Sheet No.

3-S-2



GENERAL REQUIREMENTS:

THE WORK INCLUDED UNDER THIS SECTION CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT AND LABOR, AND THE PERFORMANCE OF ALL FUNCTIONS, EXCEPT AS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE DRAWINGS TO BE PERFORMED BY OTHERS, FOR THE INSTALLATION OF COMPLETE AND WORKING AIR CONDITIONING, HEATING AND VENTILATION SYSTEM. CHECK FIELD CONDITIONS AND MAKE MEASUREMENTS BEFORE ORDERING MATERIALS.

MAINTENANCE MANUAL SHALL INCLUDE ALL AVAILABLE MANUFACTURERS' OPERATION AND MAINTENANCE INSTRUCTIONS TOGETHER WITH THE RECORD DRAWINGS TO PROPERLY OPERATE AND MAINTAIN THE EQUIPMENT. THE MANUAL SHALL ALSO CONTAIN THE NAME, ADDRESS, AND PHONE NUMBER OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN ANY OF THE WORK SPECIFIED HEREIN.

THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS, PAY ALL LEGAL FEES AND CHARGES AND COMPLY WITH ALL STATE AND MUNICIPAL BUILDING AND SAFETY LAWS, ORDANCES AND REGULATIONS RELATING TO BUILDING AND PUBLIC HEALTH AND SAFETY. ALL WORK SHALL BE IN CONFORMANCE WITH GOVERNING CODES.

PROVIDE MECHANICAL EQUIPMENT HAVING MOTORS WITH MOTOR PROTECTORS. WIRING AND PROPER OPERATION OF MECHANICAL EQUIPMENT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. ALL WIRING SHALL BE ROUTED IN CONDUIT OR PLENUM RATED WIRING.

THE SYSTEM SHALL HAVE A WARRANTY COVERING LABOR, MATERIALS AND EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND ACCEPTANCE. REPLACE OR REPAIR ALL DEFECTIVE WORKMANSHIP, EQUIPMENT, AND MATERIALS AT NO ADDITIONAL COST TO THE OWNER.

THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT DIFFUSER AND GRILLE LOCATIONS WITH THE ELECTRICAL CONTRACTOR AND ALL OTHER TRADES AND ALSO COORDINATE SPACE AVAILABILITY FOR DUCTWORK ABOVE RECESSED LIGHTING TO AVOID RELOCATING DUCTWORK AT THE MECHANICAL CONTRACTORS EXPENSE. ALL AIR DISTRIBUTION DEVICES IN LAY-IN CEILING SHALL BE INDEPENDANTLY SUPPORTED TO THE STRUCTURE WITH A MINIMUM OF (2) SUPPORT RODS OR WIRES IN COMPLIANCE WITH SECTION 2.3.1.3 OF NFPA 90A AND UNIFORM BUILDING CODE IF REQUIRED BY THE LOCAL CODE AUTHORITY.

PROVIDE COMPLETE TESTING AND BALANCING OF AQLL MECHANICAL SYSTEMS IN ACCORDANCE WITH AABC OR NEBB LATEST STANDARD WITH REPORT.

CONDENSATE DRAIN PIPING SHALL BE PVC FOR ALL CONDENSATE DRAIN LINES WITH A MINIMUM SLOPE OF 1/8" PER FOOT FROM THE UNIT TO THE APPROVED PLUMBING CONNECTION. PROVIDE TRAPS AT UNITS AND INSTALL OVERFLOW DRAINS AS REQUIRE BY MECHANICAL CODE. TEST CONDENSATE PIPING TO HIGHEST POINT IN THE SYSTEM AND HOLD FOR FOUR HOURS. PROVIDE INSULATION ON ALL CONDENSATE PIPING INSIDE THE BUILDING.

DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AND LOCAL STANDARDS FOR THE INTENDED PURPOSE. RADIUS ELBOWS SHALL HAVE A MINIMUM CENTERLINE RADIUS OF 1.5 TIMES THE DUCT DIMENSION IN THE DIRECTION OF THE TURN, AND SQUARE ELBOWS SHALL HAVE SINGLE THICKNESS TURNING VANES. ALL JOINTS SHALL BE TAPED WITH GLASS CLOTH AND HARDCAST OR ADHESIVE (UL LISTED). ALL DUCT SIZES ARE TO THE INSIDE DIMENSIONS, INCREASE OUTSIDE DIMENSIONS AS NECESSARY.

ALL INSULATION ADHESIVE AND INSTALLATION SHALL COMPLY WITH NFPA 90A.

GRILLES AND REGISTERS SHALL BE OF THE TYPE AND FINISH AS INDICATED ON THE DRAWINGS, COMPLETE WITH OPPOSED BLADE DAMPERS EXTRACTORS AND STRAIGHTENING GRIDS AS REQUIRES.

AIR CONDITIONING CONTROLS SHALL BE BY THE EQUIPMENT MANUFACTURER, FOR USE WITH MULTI-ZONE HEAT PUMPS.

HVAC – GENERAL NOTES

- ALL WORK AND EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE 2019 (OR LATEST EDITION IN FORCE) INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS, NFPA 90A, AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- FIELD LOCATE EQUIPMENT AND ROUTE DUCTWORK AND CONDUIT, ETC. AS REQUIRED SO NOT TO OBSTRUCT OTHER EQUIPMENT OR ACCESS. COORDINATE ROUTING WITH ROOF STRUCTURE AND OVERHEAD CRANE SYSTEM.
- IT SHALL BE UNDERSTOOD THAT THE DRAWINGS SHOW THE GENERAL ROUTING OF PIPES, DUCTS, ETC. AND THE APPROXIMATE LOCATION OF APPARATUS. CONTRACTOR TO FIELD VERIFY ALL FIELD DIMENSIONS AND INVESTIGATE EXISTING CONDITIONS PRIOR TO FABRICATING DUCTWORK OR PIPING AND LOCATING EQUIPMENT. PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE COORDINATED WITH EXIST. UTILITIES AND OBSTRUCTIONS. UTILITIES SHALL BE RELOCATED BY THE CONTRACTOR AS REQUIRED. COORDINATE ALL ROUTING WITH LIGHTING AND STRUCTURAL FEATURES. CONTRACTOR SHALL NOTE THAT THE DRAWINGS REPRESENT WORK TO BE INSTALLED BY A KNOWLEDGEABLE, LICENSED MECHANICAL CONTRACTOR FAMILIAR WITH THE TYPES OF SYSTEMS INDICATED AND DO NOT NECESSARILY SHOW ALL DETAILS FOR SYSTEM INSTALLATION.
- ALL EQUIPMENT INSTALLED IN THE BUILDING SHALL BE CORROSION RESISTANT SUITABLE FOR CORROSIVE LOCATIONS. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL PLANS AND SHALL FURNISH EQUIPMENT WIRED FOR VOLTAGES AS REQUIRED. CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
- COORDINATE THERMOSTAT LOCATIONS AS APPLICABLE WITH LIGHTS, CEILING GRID, ETC. AND ARCHITECTS REFLECTED CEILING PLAN.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY LAYOUT DRAWINGS AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBER IS NOT PERMITTED.
- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE OWNER WITH ONE (1) YEAR WARRANTY ON EQUIPMENT AND INSTALLATION.
- CONTRACTOR SHALL TEST ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND CERTIFY TO OWNER IN WRITING THAT ALL SYSTEMS ARE FULLY AND PROPERLY OPERATIONAL UPON COMPLETION OF WORK. CONTRACTOR SHALL PROVIDE THREE COPIES OF TEST AND BALANCE REPORT TO OWNER.
- CONTRACTOR SHALL ENSURE THAT ADEQUATE CLEARANCE IS MAINTAINED IN FRONT OF ELECTRICAL PANELS AND AROUND ALL EQUIPMENT FOR MAINTENANCE.

FAN SCHEDULE

EF #-#	SERVICE	CFM	HP	RPM	S.P.	VOLTS/PH	REMARKS
3-1	INFLUENT PUMP STATION	850	1/2	1,448	0.59	120/1	1, 2, 3, 4, PROVIDE MOTOR OPERATED DAMPER, INTERLOCK WITH LOUVERS
9-1	WAS-RAS PUMP STATION	1,000	1/2	1,533	0.60	120/1	1, 2, 3, 4, PROVIDE MOTOR OPERATED DAMPER, INTERLOCK WITH LOUVERS
11-1	DEWATERING BUILDING	2,600	1.0	1,474	0.66	460/3	1, 2, 3, 4, PROVIDE MOTOR OPERATED DAMPER, INTERLOCK WITH LOUVERS
12-1	RESTROOM	110	24.2 W	960	1.375	120/1	5, INTERLOCK WITH LIGHTS
13-1	CHEMICAL FEED ROOM	600	1/4	1,638	0.59	120/1	1, 2, 3, 4, PROVIDE MOTOR OPERATED DAMPER, INTERLOCK WITH LOUVERS

- EXHAUST FANS TO BE INTERNALLY AND EXTERNALLY COATED (INCLUDING WHEEL AND ALL SURFACES IN AIRSTREAM) SUITABLE FOR SEVERELY CORROSIVE ATMOSPHERES (CHLORINE, HYDROFLUOROSILIC ACID, CAUSTIC, SODIUM HYPOCHLORITE AS WELL AS PHOSPHATE WHICH SHOULD NOT BE CORROSIVE). COATING TO BE FACTORY APPLIED POLYESTER COATING, GREENHECK HI-PRO POLYESTER OR APPROVED EQUAL.
- PROVIDE WITH WALL MOUNTING FLANGE, 45 DEGREE WEATHER HOOD, MOTOR AND BELT GUARDS, ALL COATED AS INDICATED ABOVE. COORDINATE SQUARE WALL OPENING SIZE WITH BLOCK MASON / GENERAL CONTRACTOR.
- FANS SHALL BE PROVIDED WITH CORROSION RESISTANT, NEMA 4X, WALL MOUNTED THERMOSTAT TO CONTROL FANS. THERMOSTAT SHALL BE 120V, SPDT IN NEMA 4X HOUSING, CHROMOLOX MODEL WCRT-100 OR EQUAL. THERMOSTAT SHALL ENERGIZE FANS UPON RISE IN TEMPERATURE ABOVE ADJUSTABLE SET POINT (80°F SET INITIALLY).
- FANS SHALL BE CONTROLLED VIA ADJUSTABLE THERMOSTAT WITH WALL MOUNTED OVERRIDE SWITCH.
- DUCT TO EXTERIOR WALL, FULL SIZE OF UNIT OPENING. TERMINATE WITH WALL CAP WITH INTERNAL BACKDRAFT DAMPER

LOUVERS

L #-#	TYPE	SIZE		FRAME	BLADES	DAMPER	BASIS OF DESIGN	REMARKS
		WIDTH	HEIGHT					
3-1	STATIONARY	16	24"	MATCH WALL TYPE	DRAINABLE	YES, MOTORIZED	GREENHECK ESD-635	WALL LOUVER, SEE NOTES 1, 2, 3
9-1	STATIONARY	24	24"	MATCH WALL TYPE	DRAINABLE	YES, MOTORIZED	GREENHECK ESD-635	WALL LOUVER, SEE NOTES 1, 2, 3
11-1	STATIONARY	24	24"	MATCH WALL TYPE	DRAINABLE	YES, MOTORIZED	GREENHECK ESD-635	WALL LOUVER, SEE NOTES 1, 2, 3
13-1	STATIONARY	16	24"	MATCH WALL TYPE	DRAINABLE	YES, MOTORIZED	GREENHECK ESD-635	WALL LOUVER, SEE NOTES 1, 2, 3

- LOUVERS SHALL BE EXTRUDED ALUMINUM WITH BIRDSCREEN AND MIN. .08" THICK FRAME AND BLADES. ENTIRE LOUVER SHALL BE KYNAR COATED. COLOR TO BE SELECTED BY OWNER / ARCHITECT.
- LOUVER TO BE PROVIDED WITH 120V ELECTRIC MOTOR OPERATED DAMPER. DAMPER SHALL BE INTERLOCKED WITH RESPECTIVE FAN TO OPEN WHEN FAN IS ENERGIZED. DAMPERS SHALL BE FIBER-REINFORCED PLASTIC RESIN TYPE. DAMPER MOTOR/ACTUATOR SHALL BE INSTALLED IN A NEMA 4X ENCLOSURE SUITABLE FOR CORROSIVE ENVIRONMENTS. CASING SHALL BE EPOXY PAINTED.
- SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.

UNIT HEATER SCHEDULE

UH #-#	BASIS OF DESIGN	MODEL	CFM	FAN HP	HEATER INPUT	FUEL	VOLTS/PH	AREA SERVICE	REMARKS/ ACCESSORIES
3-1	BERKO	BWD05432	700	.388 AMPS	5.0 KW	ELECTRIC	480/3	INFLUENT PUMP STATION	1,2,3
9-1	BERKO	BWD05432	700	.388 AMPS	5.0 KW	ELECTRIC	480/3	WAS-RAS PUMP STATION	1,2,3
11-1	BERKO	BWD05432	700	.388 AMPS	5.0 KW	ELECTRIC	480/3	DEWATERING BUILDING	1,2,3
13-1	BERKO	BWD05432	700	.388 AMPS	5.0 KW	ELECTRIC	480/3	CHEMICAL FEED ROOM	1,2,3

- PROVIDE WITH WALL MOUNTED THERMOSTAT, CONTACTOR, AND INTEGRAL FAN CONTROL POWER TRANSFORMER. ALL COMPONENTS SHALL BE HOUSED IN NEMA 4X ENCLOSURE SUITABLE FOR CORROSIVE ENVIRONMENTS. CASING SHALL BE EPOXY PAINTED.
- PROVIDE WITH WALL OR CEILING MOUNTING BRACKETS, MOUNT AS HIGH AS POSSIBLE (7' MIN.) A.F.F.
- PROVIDE WITH INTEGRAL NEMA 4X NON-FUSED DISCONNECT SWITCH.

HEAT PUMP INDOOR UNITS

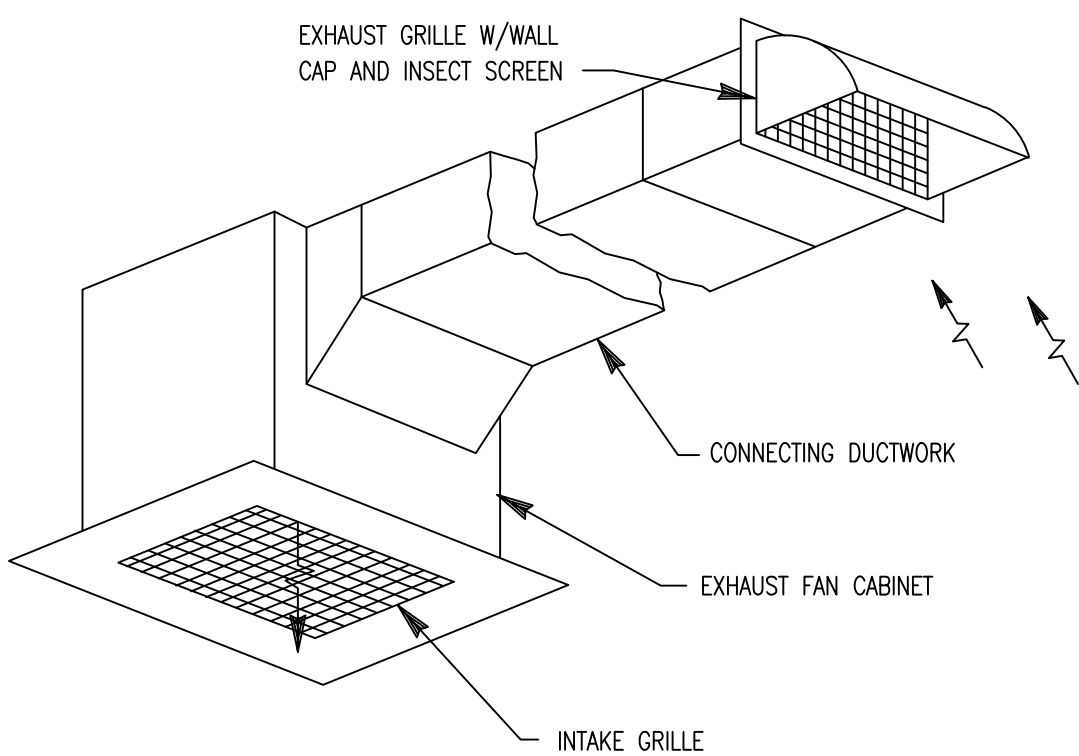
HPIU #-#	SUPPLY AIR	MIN. O.A.	COOLING	HEATING	ELECTRICAL		BASIS OF DESIGN (OR EQUAL BY CARRIER, FRIGIDAIRE)	REMARKS
	CFM	CFM	TOTAL MBH	MBH	VOLTS	PHASE		
11-1	190	0	6.0	8.7	208	1	mitsubishi msz-fs06na	
11-2	487	0	22.5	27.6	208	1	mitsubishi msz-gl24na	
12-1	2,000	140	60.0	55.6	230	1	CARRIER FSSANBC60L15	15 KW ELECTRIC HEAT

HEAT PUMP OUTDOOR UNITS

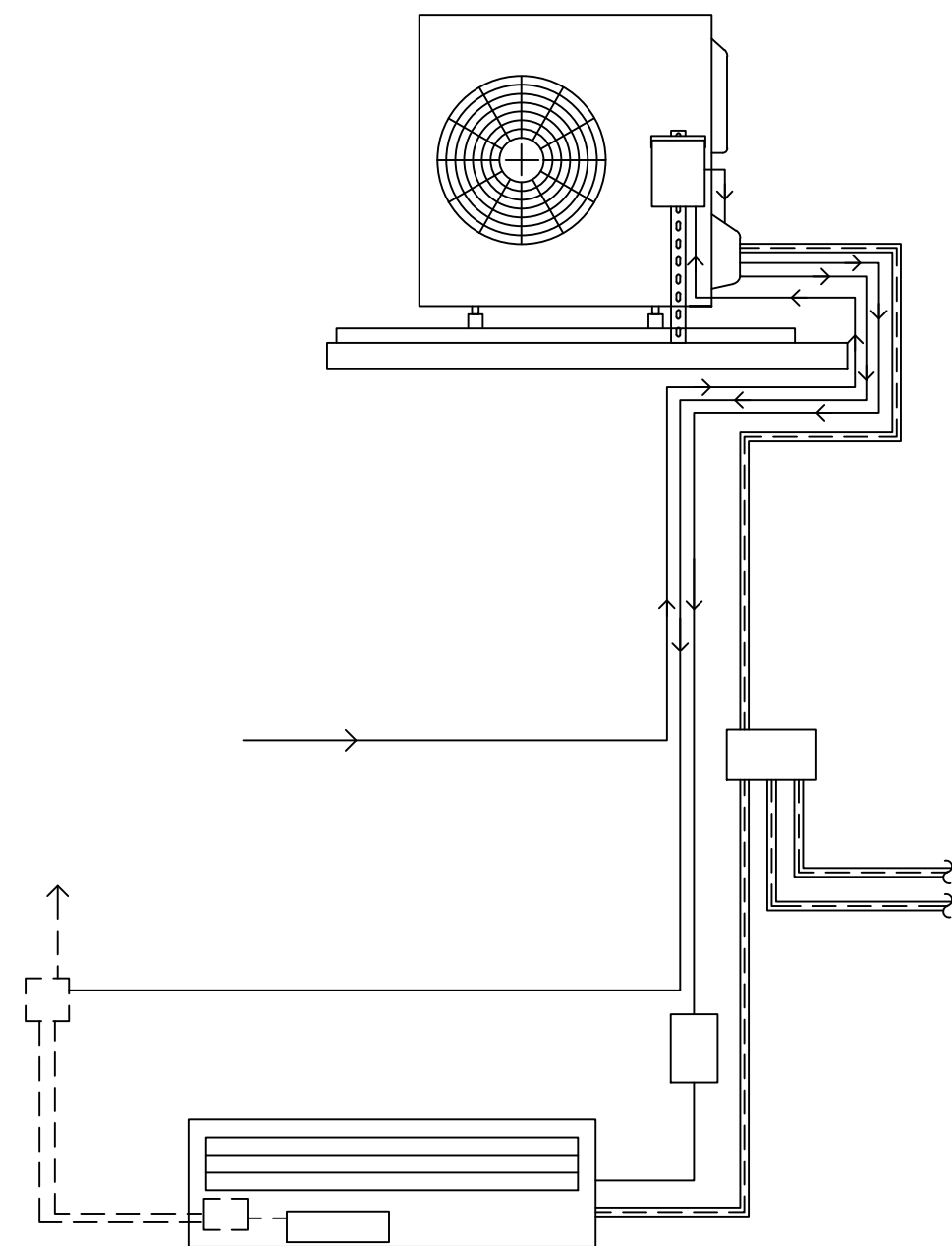
HPOU #-#	COOLING	HEATING	ELECTRICAL		BASIS OF DESIGN (OR EQUAL)	REMARKS
	TOTAL MBH	MBH	VOLTS	PHASE		
11-1	6.0	8.7	208	1	mitsubishi muz-fs06na	
11-2	48.0	50.0	208	1	mitsubishi mxz-sm48nam2	
12-1	60.0	55.6	230	1	CARRIER 27SCA560	

AIR DISTRIBUTION DEVICE

TAG CFM	TYPE	SIZE		FRAME	THROW	DAMPER	REMARKS
		NECK	FACE				
A	DIFFUSER	8"ø	24"x24"	SURFACE	4-WAY	YES	TITUS TMS OR EQUAL
B	DIFFUSER	6"ø	12"x12"	SURFACE	4-WAY	YES	TITUS TMS OR EQUAL
C	RETURN	10"ø	12"x12"	SURFACE	---	NO	TITUS 50F OR EQUAL
D	RETURN	16"ø	24"x24"	SURFACE	---	NO	TITUS 50F OR EQUAL



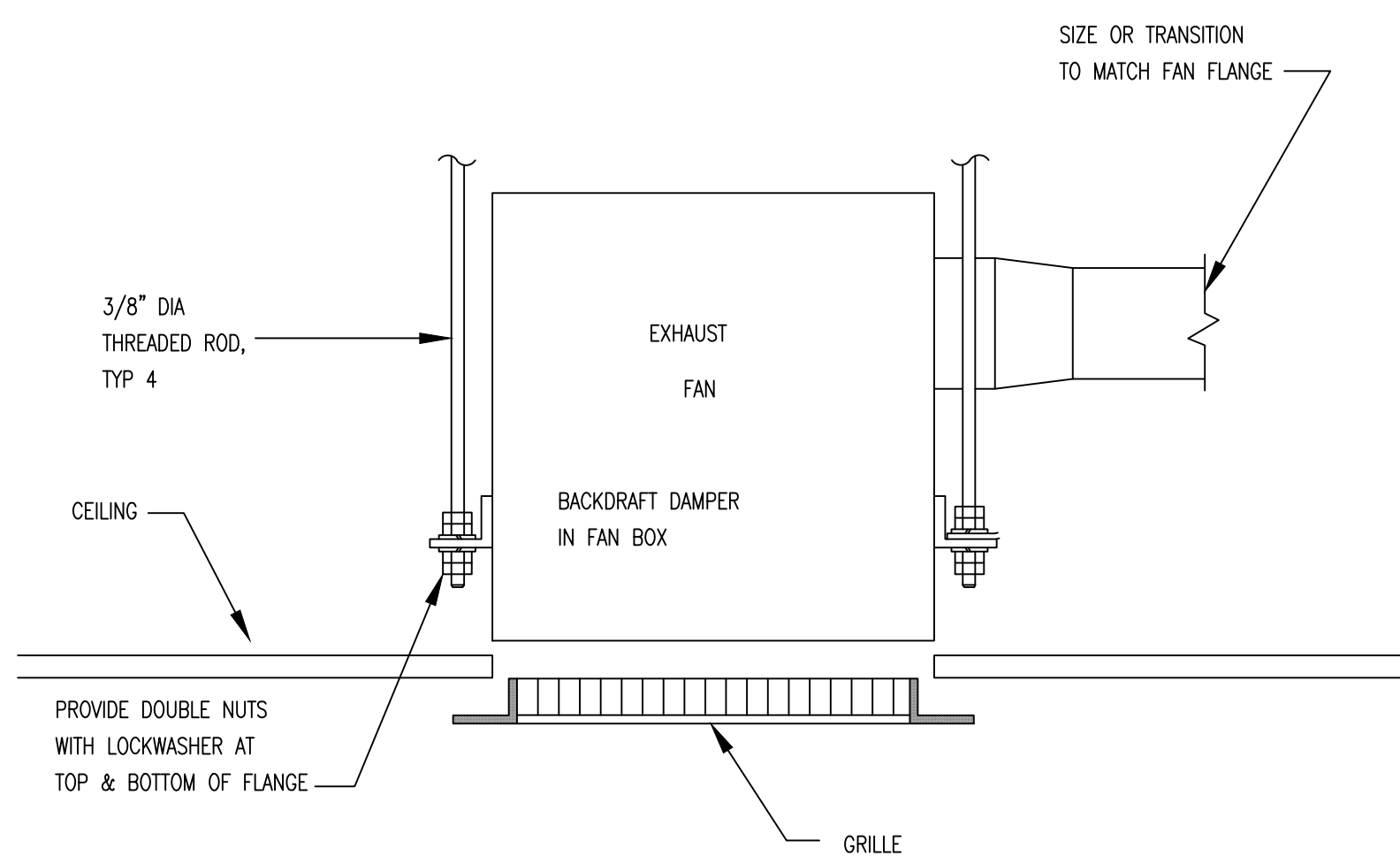
CEILING EXHAUST FAN DETAIL



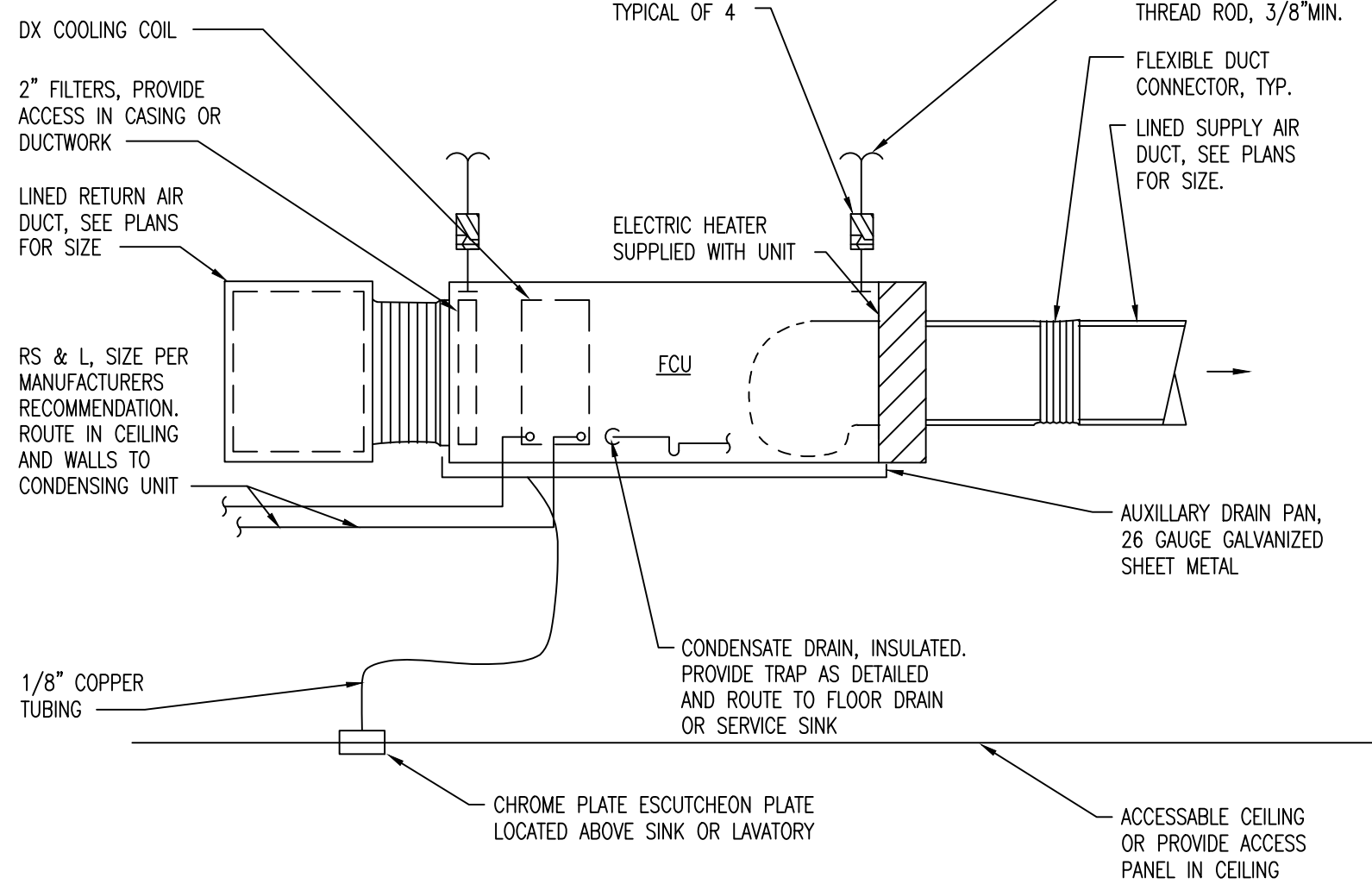
Notes:

- REFER TO ASD-89 FOR PLATFORM CURB INSTALLATION AND ADDITIONAL INFORMATION.
- SPLIT SYSTEMS MANUFACTURERS AND MODELS VARY, REFERENCE MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.

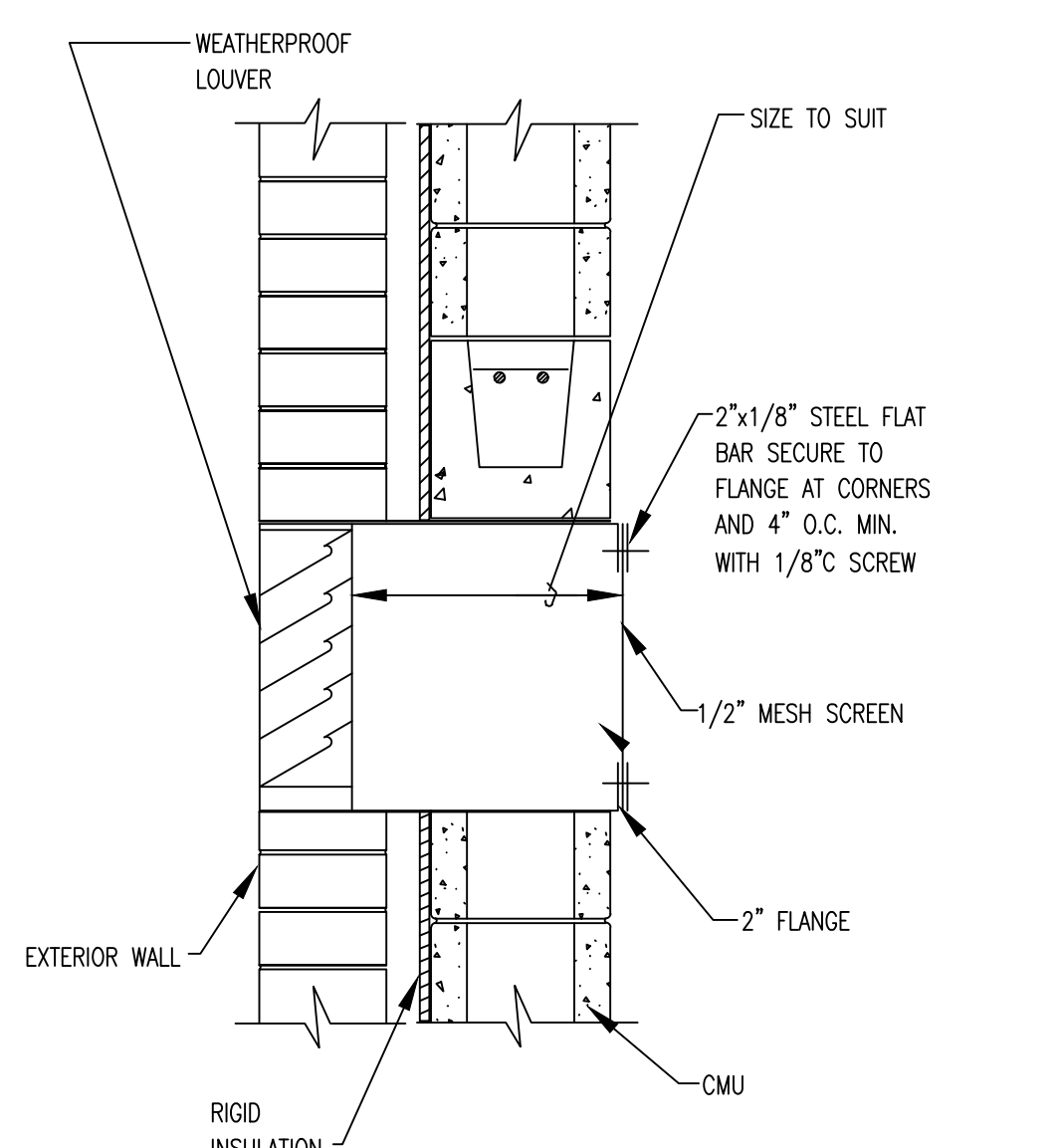
DUCTLESS SPLIT SYSTEM DIAGRAM



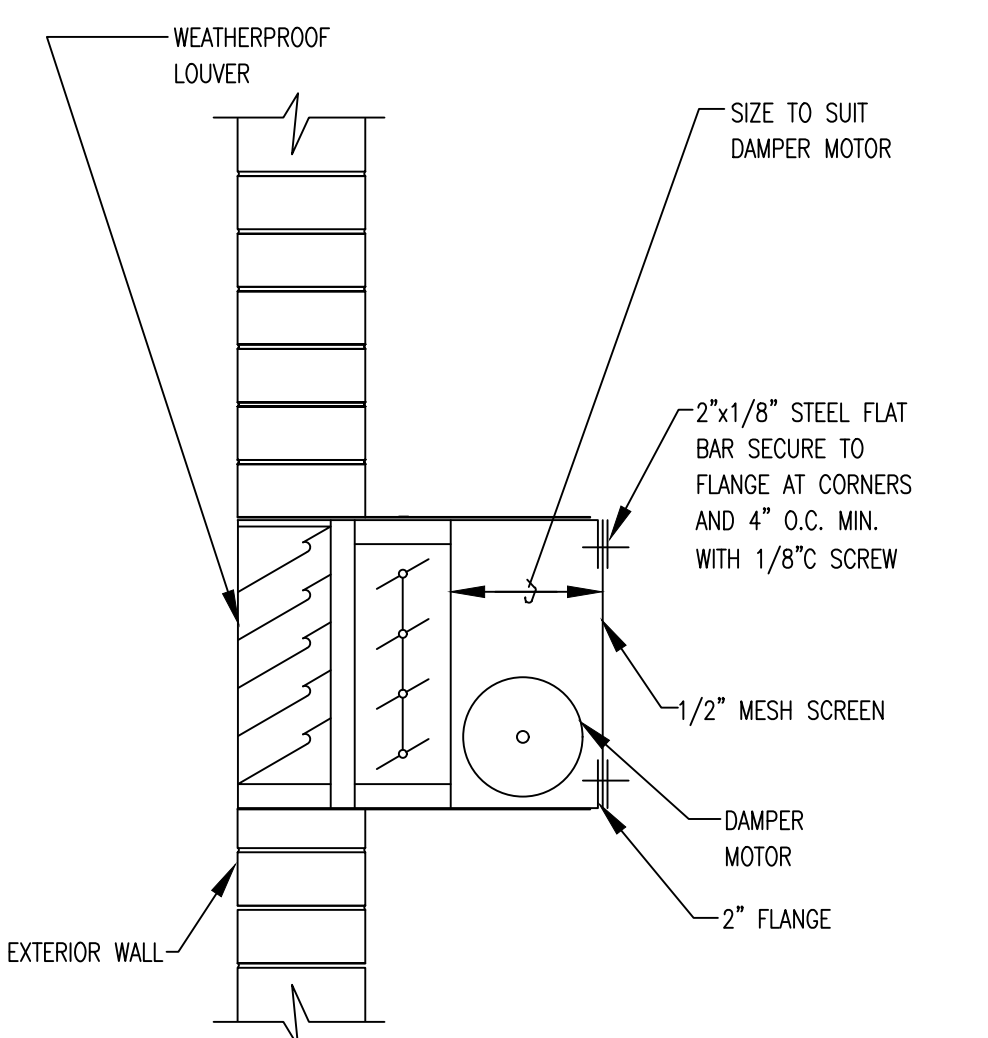
CEILING EXHAUST FAN



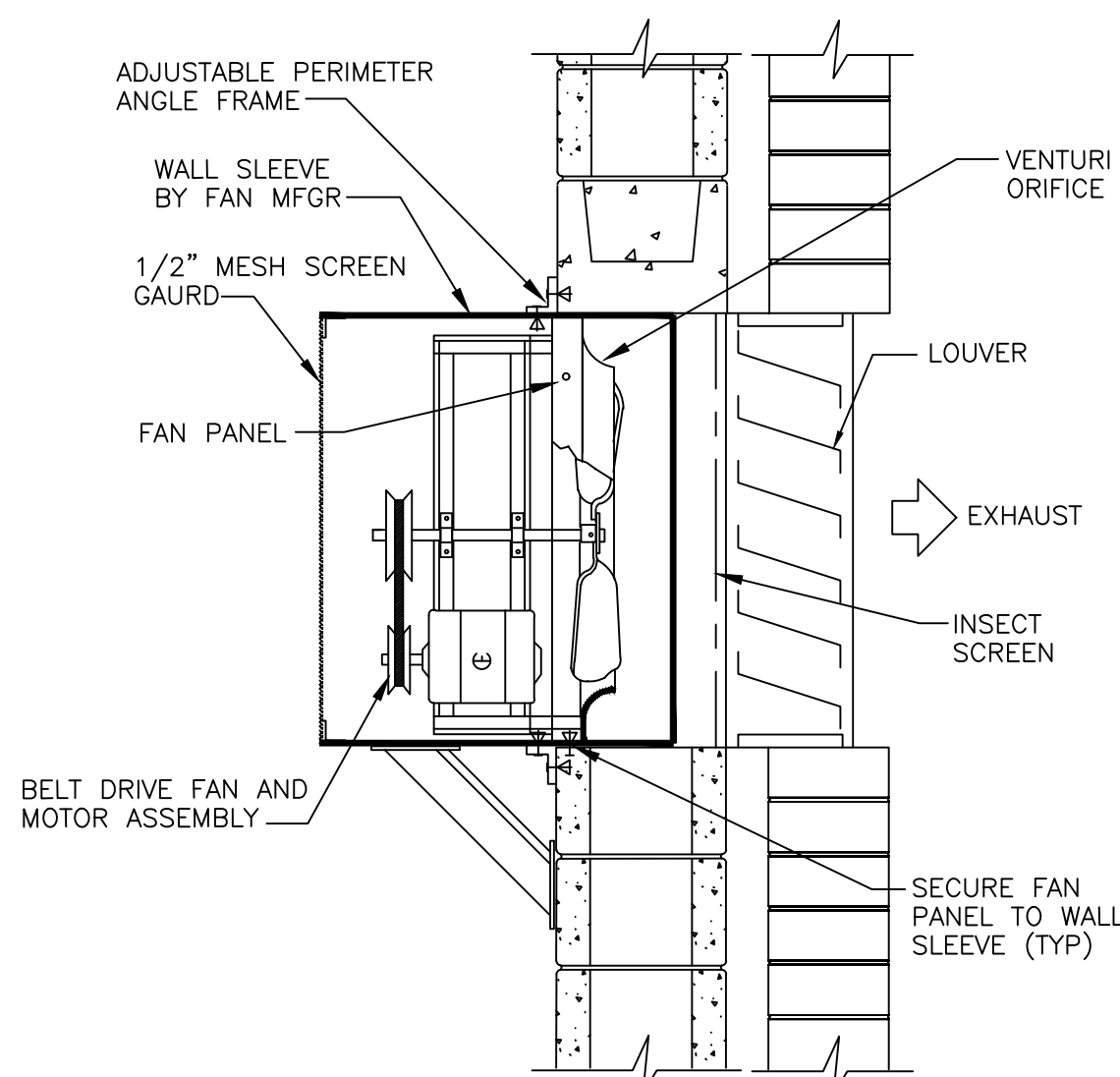
HORIZONTAL FAN COIL UNIT



LOUVER MOUNTING DETAIL



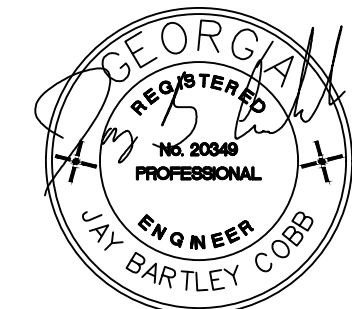
LOUVER MOUNTING DETAIL



WALL MOUNTED PROPELLER FAN DETAIL

**J. B. Cobb Engineering, LLC**  
Mechanical/Industrial  
Office: (878) 363-8754  
Since 1997  
Cell Phone: (404) 403-2128  
97 Lakemidge Drive  
Duluth, GA 30132  
jcobbpe@bellsouth.net

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



Date	7-31-2025
Initial	JBC
Revisions	
No.	1

**PRINDT**  
ENGINEERING + ENVIRONMENTAL

**CITY OF CLEVELAND**  
WASTEWATER TREATMENT PLANT UPGRADES

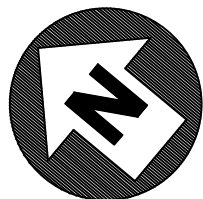
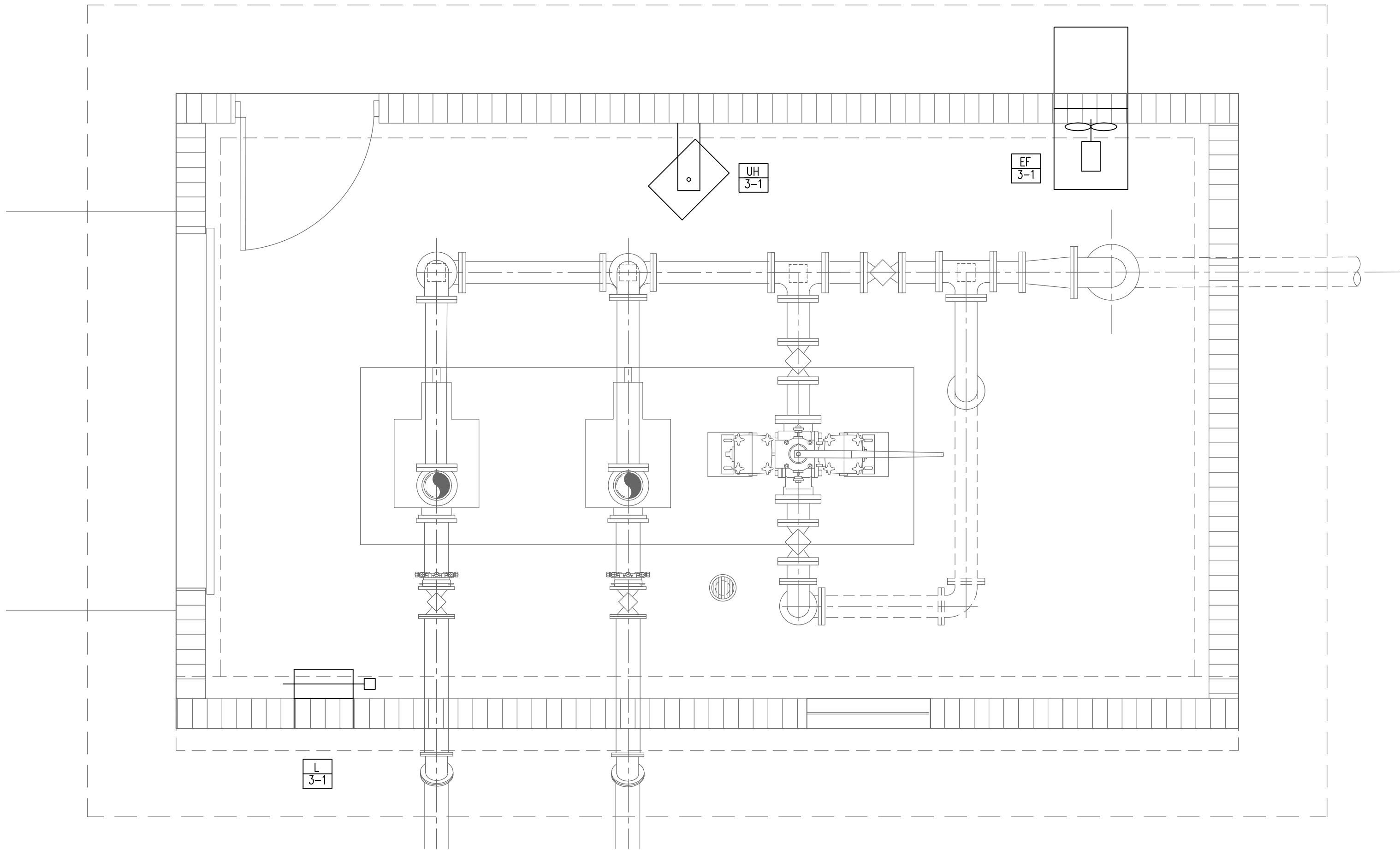
HVAC NOTS SCHEDULES AND DETAILS

Drawn: JBC	Design: JBC	Checked: JBC	Project No: R20109-111	Scale: AS SHOWN	Date: JULY 2025
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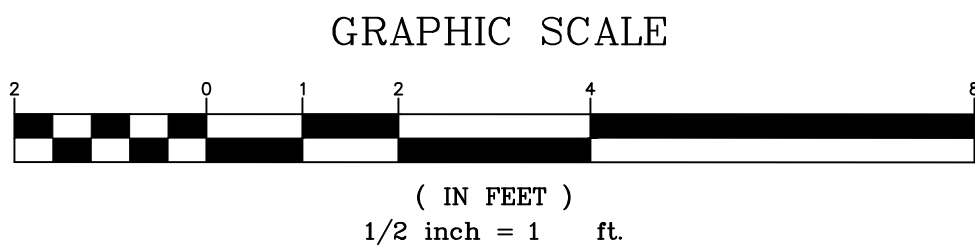
Sheet No.

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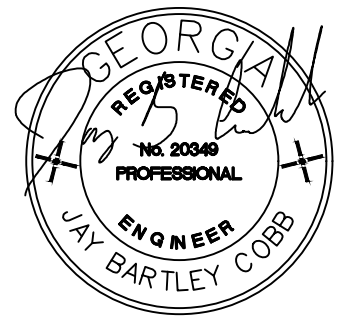
1 INFLUENT PUMP STATION BUILDING HVAC PLAN  
SCALE: 1/2" = 1'



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

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No.	Revisions	Initial	Date
1	RELEASED FOR BID	JBC	7-31-2025



CITY OF CLEVELAND  
WASTEWATER TREATMENT PLANT UPGRADES  
INFLUENT PUMP STATION BUILDING HVAC PLAN

Drawn: JBC	Design: JBC	Checked: JBC	Project No: R2019-111	Scale: AS SHOWN	Date: JULY 2025
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Sheet No.

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