

STANDARD DETAILS



BID SET

For the Construction of

MOORE WWTP IMPROVEMENT PROJECTS

MOORE, OKLAHOMA

Moore Bid Number: 2026-007

CWSRF Funding Number: ORF-26-0048-CW

Headworks Improvements
Garver Project No. 2302254

Digester, SBR, & UV/Effluent Pump Station
Building Improvements
Garver Project No. 2500545

Storm Pond Improvements
Garver Project No. 2501328

VOLUME 2

Prepared For:
City of Moore

February 2026



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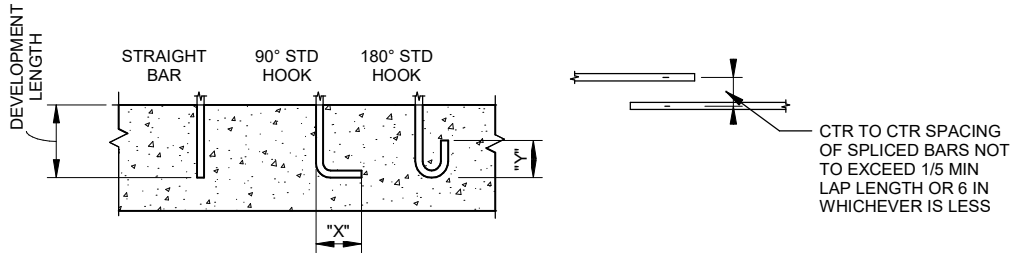
CITY OF MOORE
MOORE, OK
MOORE WWTP
IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
STANDARD DETAILS INDEX 1			DIVISION D00
			SECTION - DETAIL NO. 0000-001
			DATE: 02/06/2026

FOR CLEARCOVER OF 2", F'c=4,000PSI, & GRADE 60 STEEL											
BAR SIZE	DIAMETER (db) (INCHES)	DEVELOPMENT LENGTH (l _d) (INCHES)		CLASS A LAP SPLICE (INCHES)		CLASS B LAP SPLICE (INCHES)		90° STD HOOK "X" (INCHES)		180° STD HOOK "Y" (INCHES)	
		"TOP" BARS	OTHER	"TOP" BARS	OTHER	"TOP" BARS	OTHER	HOOK	l _{dh}		
		REINFORCING BARS IN TENSION									
#3	0.375	12	9	12	9	15	12	6	7	6	
#4	0.5	15	12	15	12	20	15	8	10	6	
#5	0.625	19	15	19	15	24	19	10	12	6	
#6	0.75	23	17	23	17	30	23	12	14	6	
#7	0.875	33	25	33	25	42	33	14	17	7	
#8	1.0	37	29	37	29	48	37	16	19	8	
#9	1.128	46	36	46	36	60	46	20	22	11	
#10	1.27	57	44	57	44	74	57	22	24	12	
#11	1.41	68	53	68	53	90	68	24	27	13	
REINFORCING BARS IN COMPRESSION											
#3	0.375	8		12				HOOKED BARS SHALL NOT BE USED IN COMPRESSION			
#4	0.5	10		15							
#5	0.625	12		19							
#6	0.75	14		23							
#7	0.875	17		26							
#8	1.0	19		30							
#9	1.125	22		34							
#10	1.25	24		38							
#11	1.375	27		42							



NOTES:

- "TOP" BARS SHALL BE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE.
- CLEAR SPACING OR BARS BEING DEVELOPED OR SPLICED SHALL:
 - NOT BE LESS THAN l_d , HAVE CLEAR COVER NOT LESS THAN d_b , AND STIRRUPS OR TIES THROUGHOUT l_d NOT LESS THAN THE CODE MINIMUM OR;
 - CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN $2d_b$ AND CLEAR COVER NOT LESS THAN d_b WHERE:
 - d_b = DIAMETER OF REINFORCING BAR
 - l_d = DEVELOPMENT LENGTH
- ALL LAP SPLICES SHALL BE CLASS B UNLESS NOTED OTHERWISE.



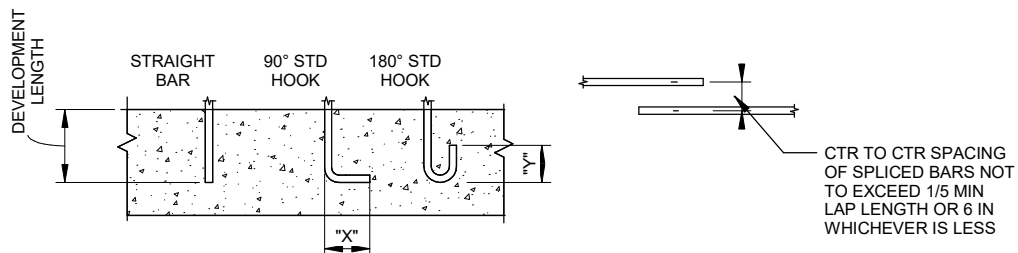
CITY OF MOORE
MOORE, OK
**MOORE WWTP
IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
STANDARD HOOK AND REINFORCING LAP SPLICE			
DIVISION D03			SECTION - DETAIL NO. 3000-100C
DATE: 02/06/2026			

FOR CLEARCOVER OF 3", F'c=4,000PSI, & GRADE 60 STEEL										
BAR SIZE	DIAMETER (db) (INCHES)	DEVELOPMENT LENGTH (l _d) (INCHES)		CLASS A LAP SPLICE (INCHES)		CLASS B LAP SPLICE (INCHES)		90° STD HOOK "X" (INCHES)		180° STD HOOK "Y" (INCHES)
		"TOP" BARS	OTHER	"TOP" BARS	OTHER	"TOP" BARS	OTHER	HOOK	l _{dh}	
		REINFORCING BARS IN TENSION								
#3	0.375	12	9	12	9	15	12	6	7	6
#4	0.5	15	12	15	12	20	15	8	10	6
#5	0.625	19	15	19	15	24	19	10	12	6
#6	0.75	23	17	23	17	30	23	12	14	6
#7	0.875	33	25	33	25	42	33	14	17	7
#8	1.0	37	29	37	29	48	37	16	19	8
#9	1.128	42	32	42	32	54	42	20	22	11
#10	1.27	47	36	47	36	62	48	22	24	12
#11	1.41	53	40	53	40	68	52	24	27	13
REINFORCING BARS IN COMPRESSION										
#3	0.375	8		12				HOOKED BARS SHALL NOT BE USED IN COMPRESSION		
#4	0.5	10		15						
#5	0.625	12		19						
#6	0.75	14		23						
#7	0.875	17		26						
#8	1.0	19		30						
#9	1.125	22		34						
#10	1.25	24		38						
#11	1.375	27		42						



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- CLEAR SPACING OR BARS BEING DEVELOPED OR SPLICED SHALL:
 - NOT BE LESS THAN l_d , HAVE CLEAR COVER NOT LESS THAN d_b , AND STIRRUPS OR TIES THROUGHOUT l_d NOT LESS THAN THE CODE MINIMUM OR;
 - CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN $2d_b$ AND CLEAR COVER NOT LESS THAN d_b WHERE:
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 - l_d = DEVELOPMENT LENGTH
- ALL LAP SPLICES SHALL BE CLASS B UNLESS NOTED OTHERWISE.

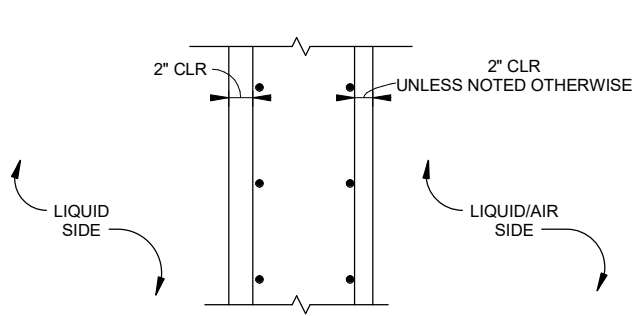


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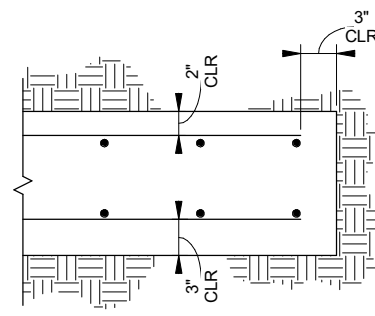
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

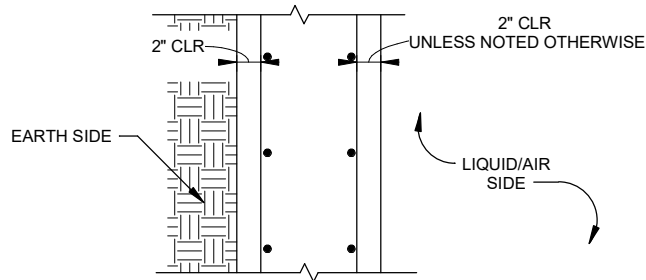
REV	DATE	DESCRIPTION	BY
STANDARD HOOK AND REINFORCING LAP SPLICE			DIVISION D03
			SECTION - DETAIL NO. 3000-100D
			DATE: 02/06/2026



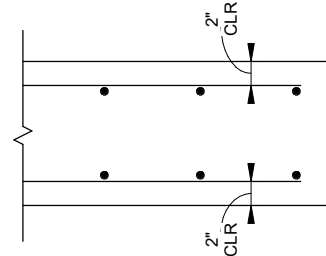
ABOVE GRADE
CONCRETE WALLS



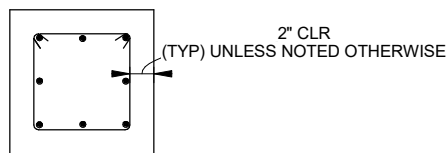
BASE SLAB AND FTG's
POURED AGAINST EARTH



BELOW GRADE WALLS



SUSPENDED SLAB



COLUMN, PIER, AND BEAM

NOTE:

1. SEE PLANS FOR PROPER REBAR ORIENTATION

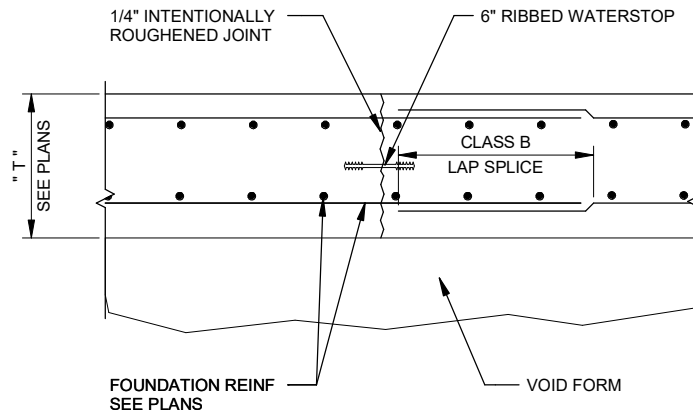


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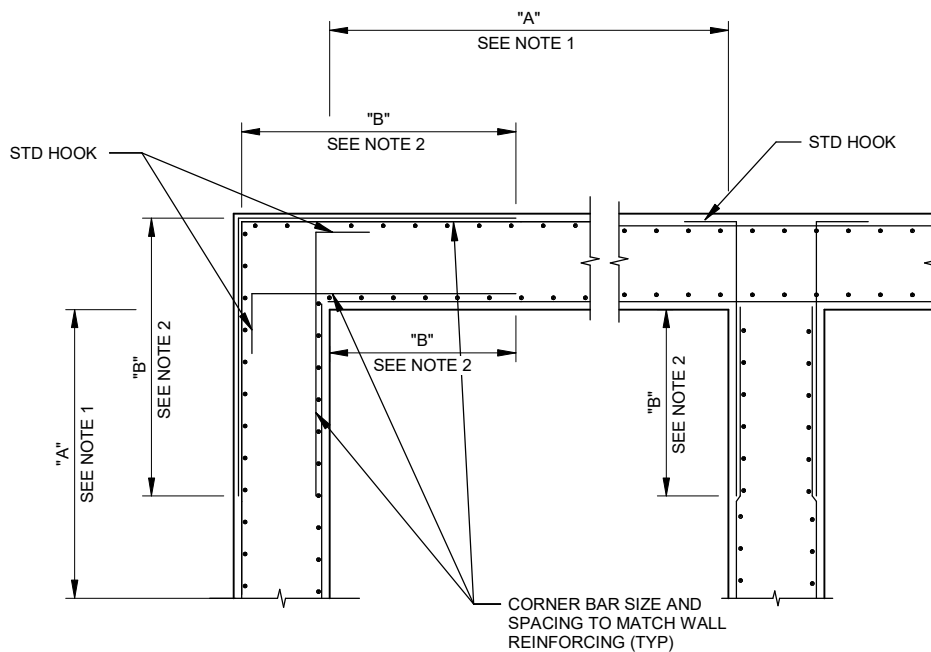
REV	DATE	DESCRIPTION	BY
STANDARD COVER FOR REINFORCING STEEL			DIVISION D03
			SECTION - DETAIL NO. 3000-101
			DATE: 02/06/2026



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REV	DATE	DESCRIPTION	BY
TYPICAL FOUNDATION CONSTRUCTION JOINT			DIVISION D03
			SECTION - DETAIL NO. 3000-127
DETAIL NOT TO SCALE			DATE: 02/06/2026



NOTES:

1. DIMENSION "A" = LENGTH OF WALL PARALLEL TO THE BAR LENGTH IN QUESTION.
2. UNLESS OTHERWISE NOTED ON THE DRAWINGS, DIMENSION "B" SHALL BE THE MINIMUM CLASS B LAP SPLICE LENGTH AS REQUIRED. IF BAR SIZES DIFFER, USE THE MINIMUM LAP LENGTH AS REQUIRED FOR THE SMALLER OF THE TWO BARS BEING SPLICED.
3. ALL GRADE BEAMS AND FOUNDATIONS SHALL ALSO HAVE CORNER BARS.

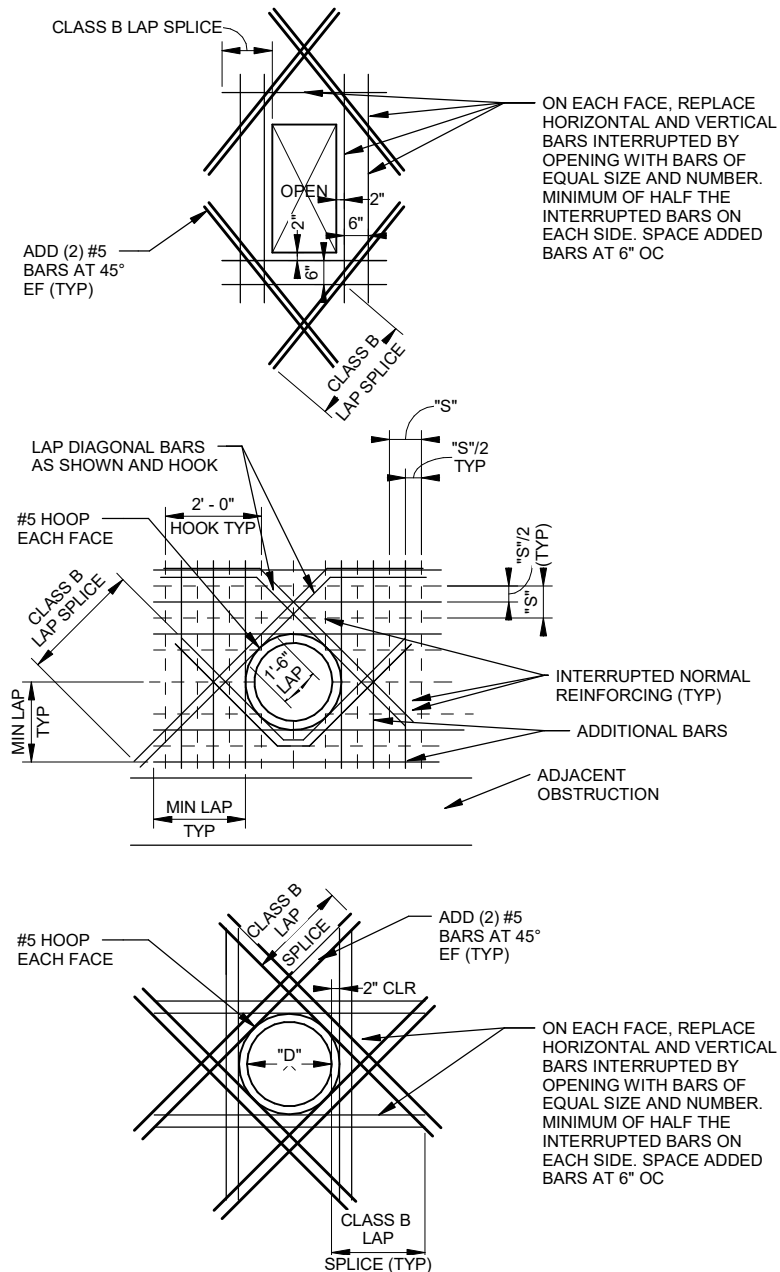


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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
		TYPICAL REINFORCED WALL, GRADE BEAM, AND FOUNDATION INTERSECTION/CORNER REINFORCING	
			DIVISION D03
			SECTION - DETAIL NO. 3000-200
			DATE: 02/06/2026



NOTES:

1. NUMBER OF ADDITIONAL REINFORCING BARS AT EACH SIDE OF OPENING SHALL EQUAL HALF THE NUMBER OF INTERRUPTED BARS IN EACH LAYER OF REINFORCING.
2. SIZE OF ADDITIONAL REINFORCING BARS TO EQUAL SIZE OF INTERRUPTED REINFORCING BARS.
3. PROVIDE STD HOOKS FOR BARS IF LAP LENGTH EXTENSION CANNOT BE OBTAINED AT JOINTS OR OTHER OBSTRUCTIONS. PLACE ADDITIONAL BARS IN SAME PLANES AS INTERRUPTED REINFORCING.
4. UNLESS NOTED OTHERWISE, SIZE OF DIAGONAL BARS SHALL BE THE SAME SIZE AS THE INTERRUPTED NORMAL REINFORCING LOCATE DIAGONALS IN EACH LAYER OF REINFORCING.
5. PLACE DIAGONAL BARS INSIDE NORMAL REINFORCING.
6. PROVIDE 2 DIAGONAL BARS EACH LAYER OR FACE, EACH WAY AS SHOWN. ALL REINFORCING TO CLEAR OPENING OR FLANGE COLLARS BY 2".



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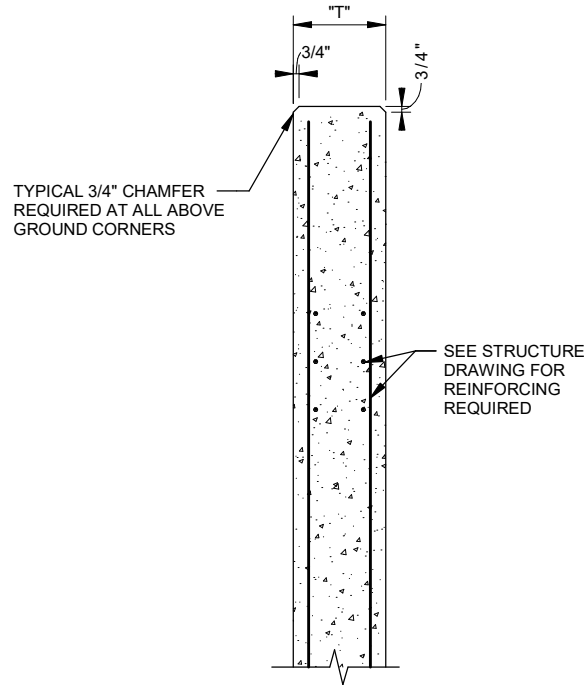
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

**ADDITIONAL REINFORCEMENT AT
WALL OPENINGS**

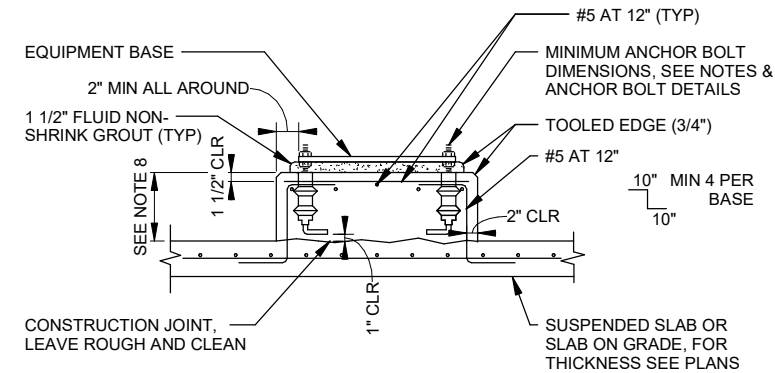
DIVISION
D03
SECTION - DETAIL NO.
3000-600

DATE: 02/06/2026



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 MOORE, OK
 MOORE WWTP
 IMPROVEMENTS
 JOB NO.: 2202254/2501328/2500545

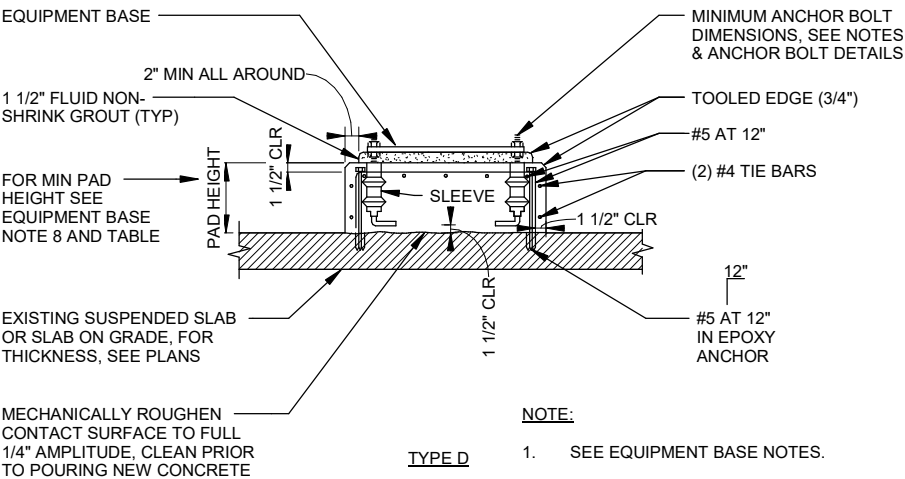
REV	DATE	DESCRIPTION	BY
STANDARD CHAMFER AT CONCRETE			DIVISION D03
			SECTION - DETAIL NO. 3000-602
DETAIL NOT TO SCALE		DATE: 02/06/2026	



NOTES:

1. SEE EQUIPMENT BASE NOTES.
2. SEE TYPE B NOTES.

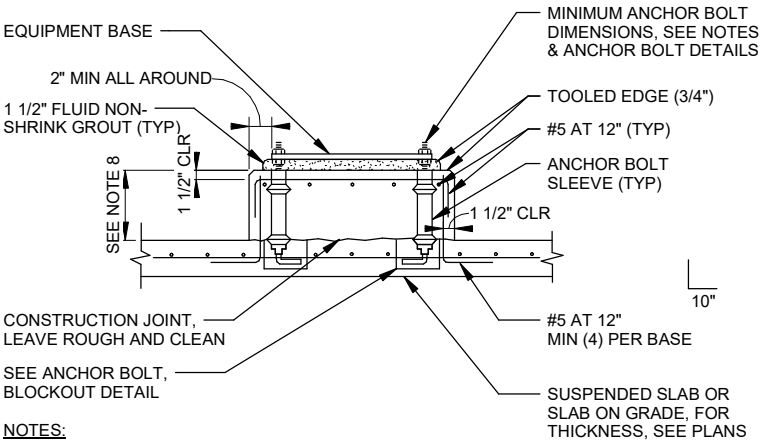
TYPE A



NOTE:

1. SEE EQUIPMENT BASE NOTES.

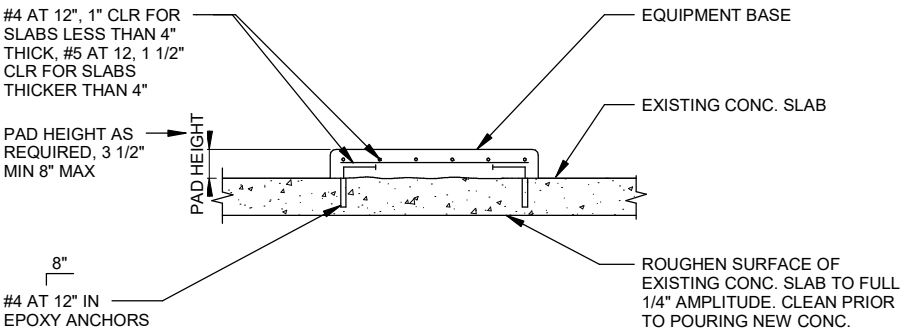
TYPE D



NOTES:

1. SEE EQUIPMENT BASE NOTES.
2. USE TYPE B BASE IN PLAVE OF TYPE A WHERE REQUIRED BY EQUIPMENT OR STUCTURE GEOMETRY. SEE NOTE 8.

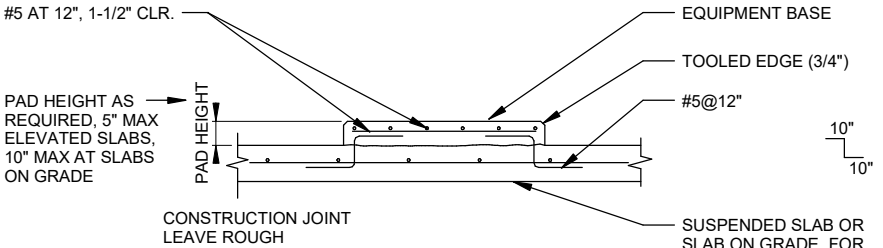
TYPE B



NOTE:

1. ANCHOR EQUIPMENT TO CONCRETE USING SST CONCRETE ANCHORS SPECIFIED.

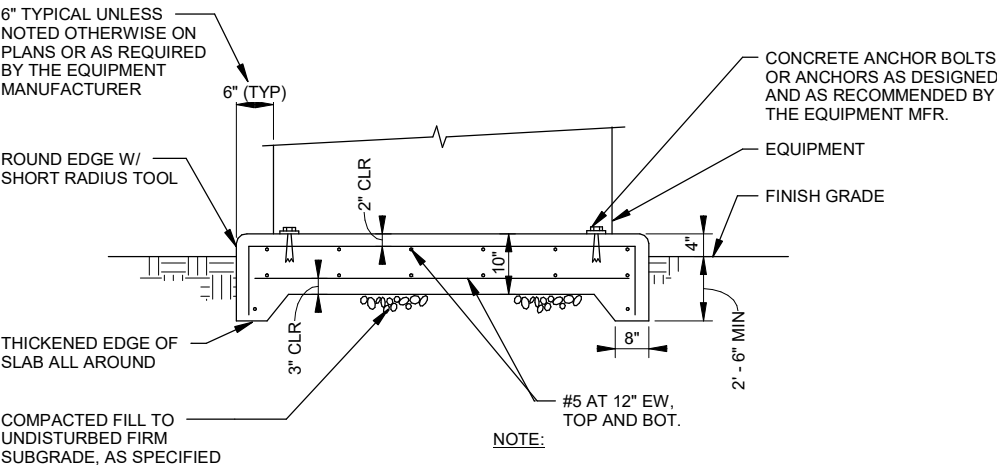
TYPE E



NOTES:

1. SEE EQUIPMENT BASE NOTES.
2. ANCHOR EQUIPMENT TO CONCRETE USING SST CONCRETE ANCHORS OR ANCHOR BOLTS SPECIFIED
3. PAD SHALL BE 6" LARGER THAN EQUIPMENT ON ALL SIDES UNLESS NOTED OTHERWISE OR AS REQUIRED BY EQUIPMENT MANUFACTURER.

TYPE C



NOTE:

1. VERIFY PAD SIZE WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.

TYPE F

EQUIPMENT BASE NOTES:

1. PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS. VERIFY ALL PAD SIZE REQUIREMENTS WITH SHOP DRAWINGS OF ACTUAL EQUIPMENT FURNISHED AND OBTAIN ENGINEER'S APPROVAL OF FINAL DIMENSIONS.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER, AND SHALL BE AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A ONE PIECE TEMPLATE, MATCHING THE BASE PLATE, WHILE PAD IS BEING POURED.
3. ANCHOR BOLT A MINIMUM MOVEMENT OF 1/2" IN ALL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT.
4. ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT.

5. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.
6. WEDGES OR SHIMS SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. TEMPORARY LEVELING NUTS SHALL BE BACKED OFF. IF LEFT IN THE WEDGES OR SHIMS SHALL NOT BE EXPOSED TO VIEW.
7. HEIGHT OF PADS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT OUT OF SLAB (SEE TABLE BELOW). WHERE EQUIPMENT OR PIPING ELEVATION REQUIRE A PAD HEIGHT LESS THAN THE MINIMUM SHOW, USE TYPE B WITH BLOCKOUT.

ANCHOR BOLT DIA (IN.)	1/2	5/8	3/4	7/8	1	1 1/4	1 3/8	1 1/2	1 3/4	2
MIN PAD HT (IN.)	7	8 1/2	10	11	12 1/2	15	16 1/2	18	21	24

8. TYPE "D" PADS MAY BE SUBSTITUTED FOR TYPE "A" PADS FOR LOCATIONS APPROVED IN WRITING BY THE ENGINEER.
9. SEE ANCHOR BOLT AND BLOCKOUT DETAILS.

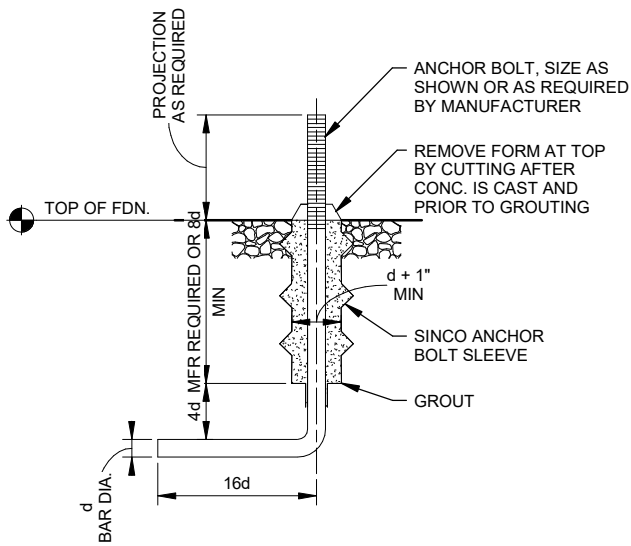
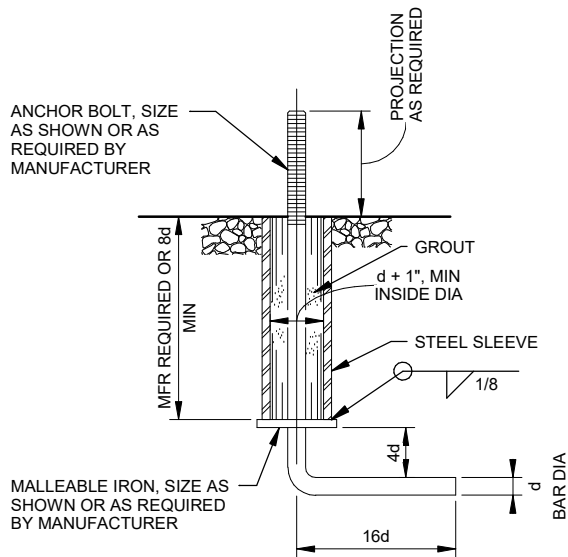
CITY OF MOORE
MOORE, OK

MOORE WWTP IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
EQUIPMENT BASE DETAIL			DIVISION D03
			SECTION - DETAIL NO. 3000-1000
			DATE: 02/06/2026

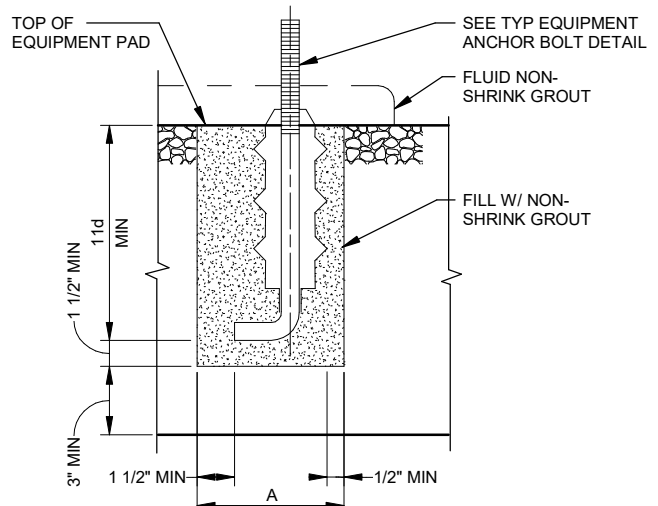




MACHINERY ANCHOR BOLT DETAIL

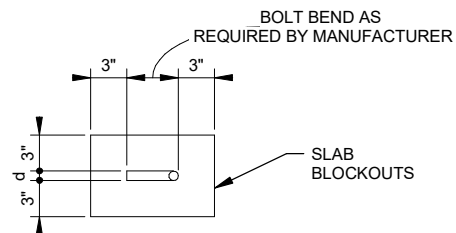
NOTES:

1. SINCO PRODUCTS INC. EAST HAMPTON, CT 1-800-243-6753.
2. REFER TO EQUIPMENT BASE NOTES.
3. $3d$ WHERE MANUFACTURER VERIFIES NO BOLT PULLOUT RESISTANCE REQUIRED.

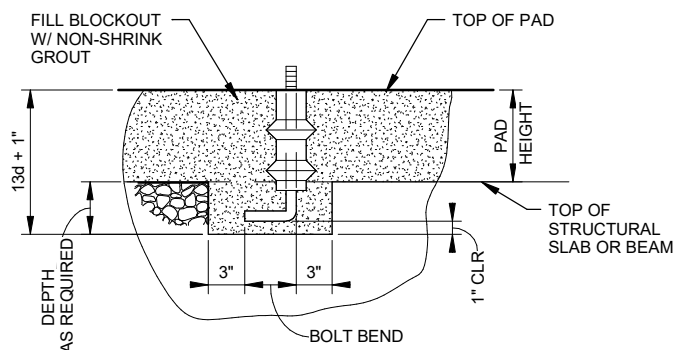


BLOCKOUT IN NEW CONCRETE OR CORED HOLE IN EXISTING CONCRETE W/ DIAMETER REQUIRED FOR A MIN CLR. OF $\frac{1}{2}"$ ALL AROUND

ANCHOR BOLT BLOCKOUT



PLAN



ELEVATION

ANCHOR BOLT BLOCKOUT

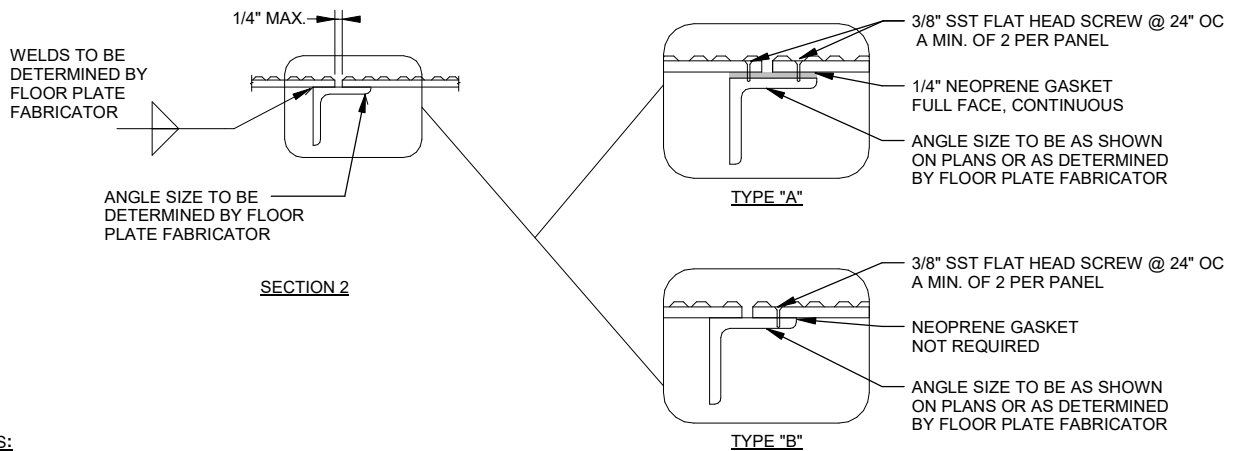
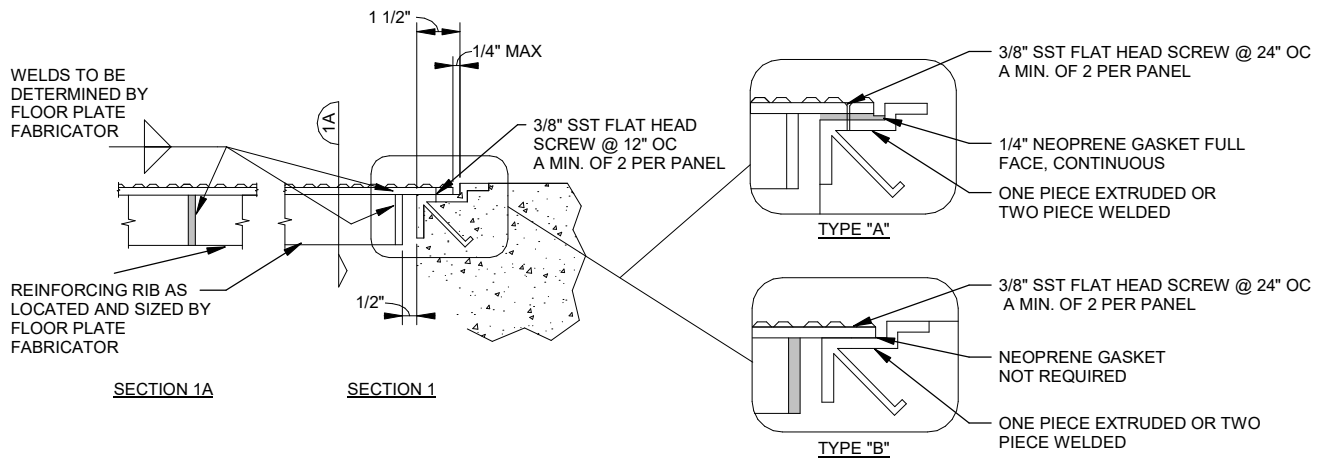


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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
ANCHOR BOLT DETAIL			DIVISION D03
			SECTION - DETAIL NO. 3000-1001
			DATE: 02/06/2026



NOTES:

1. TYPE "A" WITH NEOPRENE GASKET TO BE USED AT ALL EXTERIOR OR ODOR CONTROL LOCATIONS, UNLESS NOTED OTHERWISE.
2. REFER TO DETAIL D05/5000-902 FOR ALUMINUM PLATE CONNECTION DETAIL NOTES.
3. 1/4", 3/8" OR 1/2" ALUMINUM CHECKED PLATE AS REQUIRED OR SHOWN ON PLANS.



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DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
CONNECTION DETAILS			DIVISION D05
			SECTION - DETAIL NO. 5000-901
			DATE: 02/06/2026

NOTES:

1. UNLESS SHOWN OR NOTED OTHERWISE, ALL GRATING, CHECKER PLATE, PLANK, HATCHES AND/OR ACCESS HATCHES SHALL BE ALUMINUM. SUPPORTING STRUCTURAL SYSTEM SHALL BE ALUMINUM OR TYPE 304 STAINLESS STEEL.
2. ALL CHECKERED PLATE AND ALL ALUMINUM GRATING, INCLUDING ALL SUPPORT MEMBERS, REINFORCING RIBS, STIFFENERS, EDGE MEMBERS, EDGE SUPPORTS, CORNER AND/OR INTERSECTION SUPPORTS AND ALL STRUCTURAL REQUIREMENTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE WORK AND PROVIDED BY THE MANUFACTURER. SUCH DESIGN FOR GRATING, PLANK, AND/OR CHECKERED PLATE COVERING, INCLUDING ALL SUPPORTS AND INTEGRAL MEMBERS SHALL BE FOR THE ACTUAL DEAD LOAD AND A UNIFORM LIVE LOAD OF 200 LBS/SQ. FT. OR THE UNIFORM LIVE LOAD OF THE ADJACENT FLOOR, WHICHEVER LOADS PRODUCES THE GREATER EFFECT, WITH TOTAL LOAD DEFLECTION LIMITED TO L/180 NTE 3/8 INCH BETWEEN SUPPORTING MEMBERS MAXIMUM. THE CONTRACTOR SHALL SUBMIT THE DESIGN OF THE GRATING, PLANK, AND/OR CHECKERED PLATE, INCLUDING ALL SUPPORTS AND INTEGRAL MEMBERS, COMPLETE WITH DETAILS AND CALCULATIONS TO BE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OF THE APPLICATION GRATING, PLANK, AND/OR CHECKERED PLATE.
3. ALL ENDS AND OPENINGS SHALL BE BANDED.
4. PROVIDE 1/4" NEOPRENE GASKETS FOR ALL SEALED CHECKER PLATING, UNLESS NOTED OTHERWISE.
5. THE WEIGHT OF A GRATING, PLANK, OR CHECKERED PLATE SECTION SHALL NOT EXCEED 150 LBS.
6. ALUMINUM SURFACES IN CONTACT WITH CONCRETE GROUT OR DISSIMILAR METALS WILL BE PROTECTED WITH A COAT OF BITUMINOUS PAINT, MYLAR ISOLATES OR OTHER APPROVED MATERIAL.
7. SEALED CHECKERED PLATE, PLANK, AND HATCHES REQUIRED AT ALL ODOR CONTROLLED STRUCTURES.
8. ADDITIONAL REQUIREMENTS PER SPECIFICATIONS.
9. LOADING CRITERIA FOR HATCHES PER SPECIFICATIONS.
10. LOADING CRITERIA FOR FIBER-REINFORCED PLASTIC (FRP) GRATING PER SPECIFICATIONS.



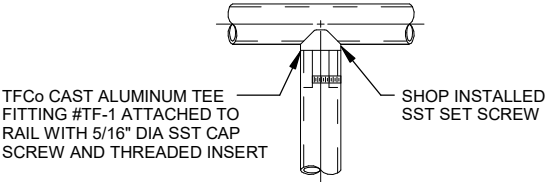
CITY OF MOORE
MOORE, OK
MOORE WWTP
IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

DATE: 02/06/2026

REV	DATE	DESCRIPTION	BY
CONNECTION DETAIL NOTES			DIVISION D05
			SECTION - DETAIL NO. 5000-902

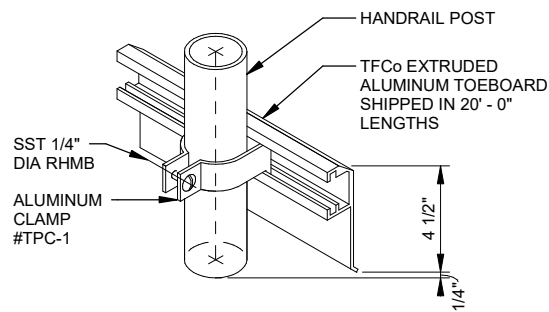


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IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
TEE FITTING DETAIL			DIVISION D05
			SECTION - DETAIL NO. 5213-100
			DATE: 02/06/2026

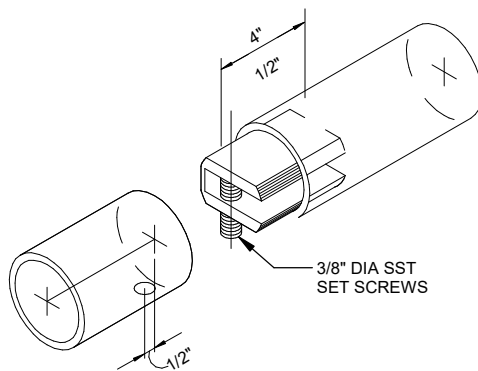


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IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
TOEBOARD DETAILS			DIVISION D05
			SECTION - DETAIL NO. 5213-101
			DATE: 02/06/2026

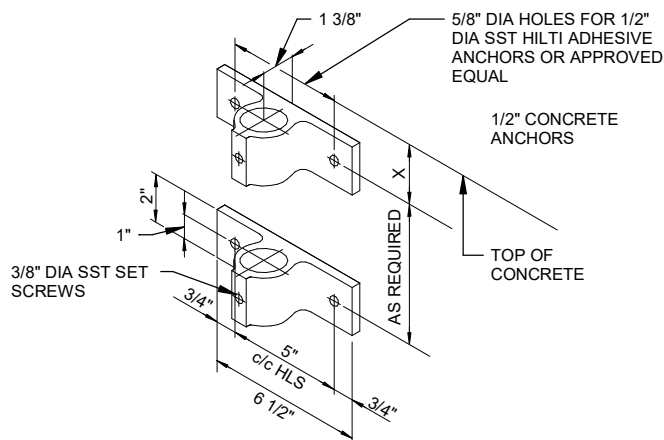


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IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
SPLICE LOCK			DIVISION D05
			SECTION - DETAIL NO. 5213-102
			DATE: 02/06/2026



NOTES:

1. DIMENSION "X", EDGE DISTANCE SHALL COMPLY WITH FASTENER CALCULATIONS.

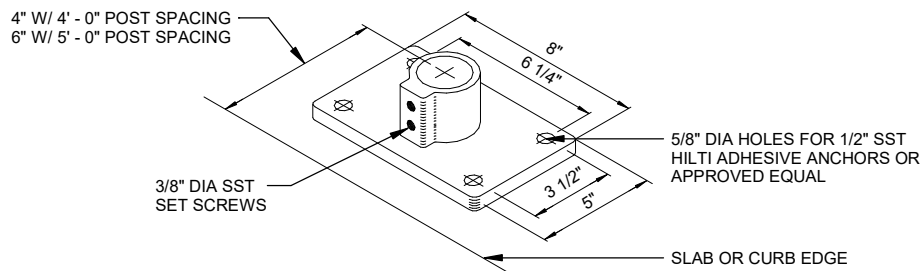


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IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
SIDE MOUNT BRACKET			DIVISION D05
			SECTION - DETAIL NO. 5213-105
			DATE: 02/06/2026



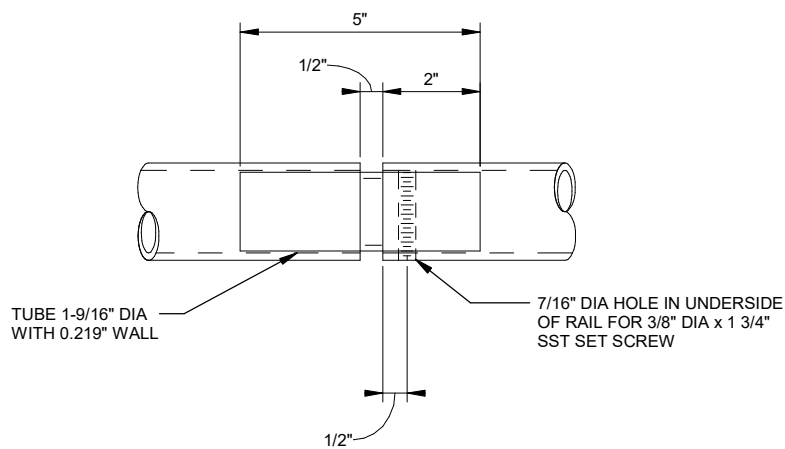
NOTES:

1. LOCATE SET SCREWS IN BASE FLANGE AT 90 DEGREES FROM CENTERLINE OF HANDRAIL RUN AND ON SIDE AWAY FROM WALKING SURFACE.



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 JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
BASE FLANGE DETAIL			DIVISION D05
			SECTION - DETAIL NO. 5213-107
DETAIL NOT TO SCALE		DATE: 02/06/2026	



NOTES:

1. LOCATED AT 60' - 0" MAXIMUM INTERVALS.



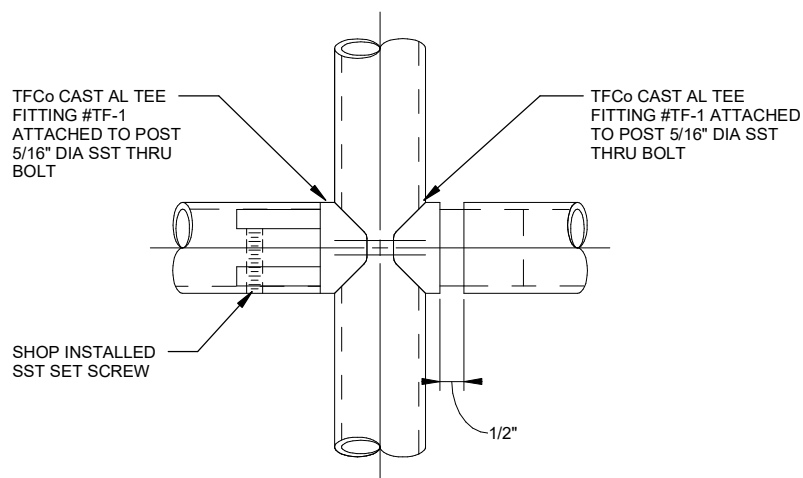
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**MOORE WWTP
IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
EXPANSION JOINT SPLICE			DIVISION D05
			SECTION - DETAIL NO. 5213-108

DETAIL NOT TO SCALE

DATE: 02/06/2026



NOTES:

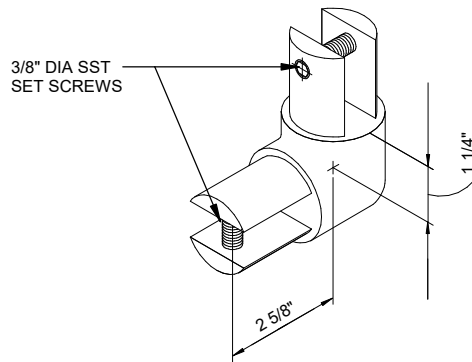
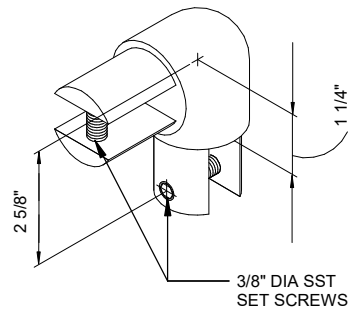
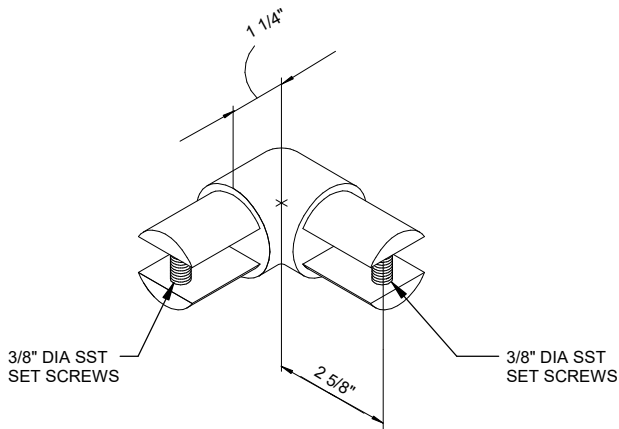
1. MIDRAIL EXPANSION SPLICE LOCATED AT 60' - 0" MAXIMUM INTERVALS.



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JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
EXPANSION SPLICE DETAIL			DIVISION D05
			SECTION - DETAIL NO. 5213-109
DETAIL NOT TO SCALE		DATE: 02/06/2026	

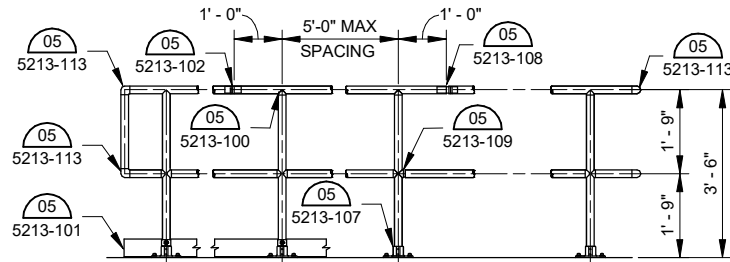


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IMPROVEMENTS

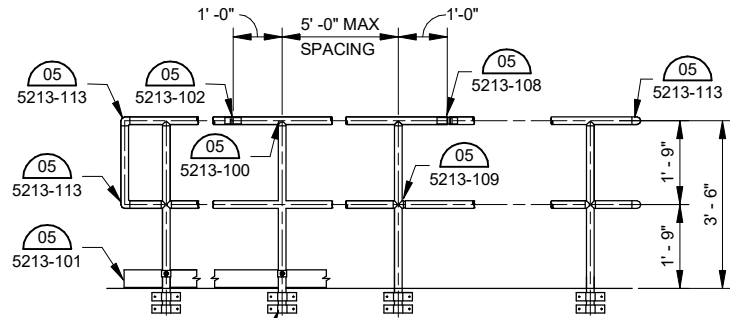
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
FASTENER DETAILS			DIVISION D05
			SECTION - DETAIL NO. 5213-113
			DATE: 02/06/2026



LOOP END METHOD A TYPICAL TOP MOUNT RAILING CORNER RETURN



LOOP END METHOD B TYPICAL SIDE MOUNT RAILING CORNER RETURN

NOTES:

- 1) GUARDRAILS SHALL BE TOP MOUNTED OR SIDE MOUNTED AS SHOWN ON PLANS.

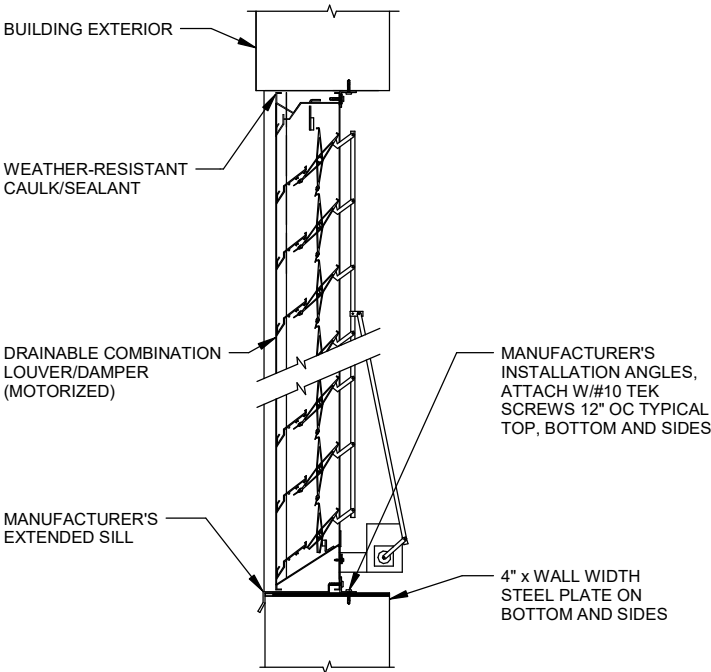


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IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
OSHA TYPE GUARDRAIL			DIVISION D05
			SECTION - DETAIL NO. 5213-600
			DATE: 02/06/2026



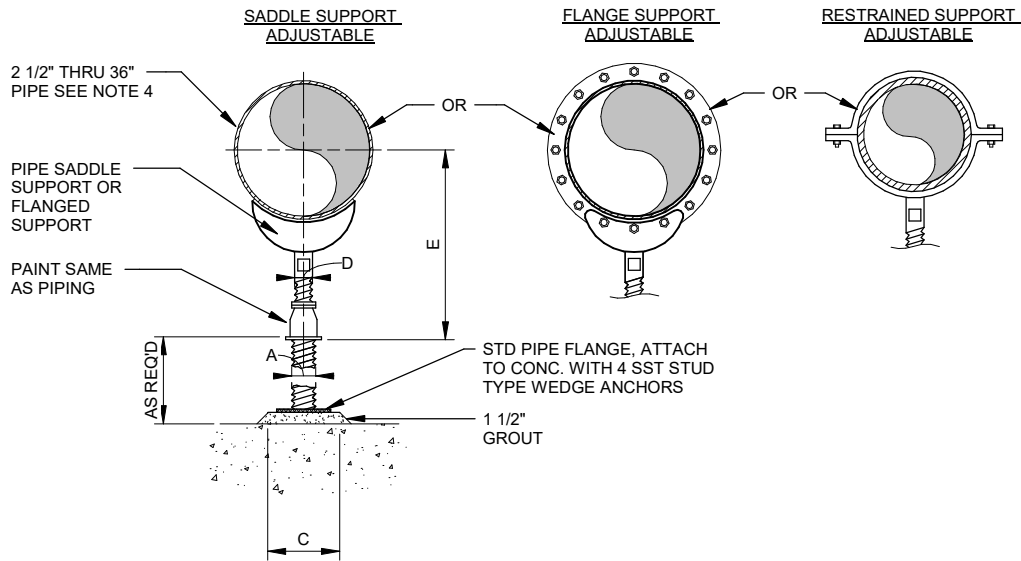
- NOTES:**
- 1. INSTALL LOUVER PER MANUFACTURER'S INSTRUCTIONS.
 - 2. FURNISH AND INSTALL ELECTRIC TWO POSITION ACTUATOR, ADJUST FOR FULL OPEN/CLOSE OPERATION.
 - 3. SEE SCHEDULE FOR MOUNTING HEIGHT.



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IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
COMBINATION LOUVER MOUNTING DETAIL			DIVISION D08
			SECTION - DETAIL NO. 9000-001
DETAIL NOT TO SCALE			DATE: 02/06/2026



DIMENSION TABLE						
PIPE SIZE	A	B	C	D	E	
					MIN	MAX
2-1/2"	2-1/2"	3-1/2"	6"	1-1/2"	8"	13"
3"	2-1/2"	3-3/4"	8"	1-1/2"	8-1/4"	13-1/4"
3-1/2"	2-1/2"	4"	8"	1-1/2"	8-1/2"	13-1/2"
4"	3"	4-1/4"	8"	2-1/2"	9-1/4"	14"
5"	3"	4-7/8"	8"	2-1/2"	10"	14-3/4"
6"	3"	5-1/2"	10"	2-1/2"	10-1/2"	15-1/4"
8"	3"	6-7/8"	10"	2-1/2"	11-3/4"	15-1/2"
10"	3"	8-1/2"	14"	2-1/2"	13-1/2"	18-1/4"
12"	3"	9-15/16"	18"	2-1/2"	15"	19-3/4"
14"	4"	10-15/16"	18"	3"	16-1/4"	20-3/4"
16"	4"	12-3/8"	20"	3"	17-3/4"	22-1/4"
18"	6"	13-7/8"	22"	3-1/2"	19-1/2"	24"
20"	6"	15-3/8"	22"	3-1/2"	21"	25-1/2"
24"	6"	17-15/16"	24"	4"	23-3/4"	28-1/4"
30"	6"	21-5/16"	30"	4"	27"	31-1/2"
32"	6"	22-1/2"	30"	4"	28-1/4"	32-3/4"
36"	6"	24-1/2"	30"	4"	30-1/4"	34-3/4"

NOTES:

1. PROVIDE HALF ROUND RIGID INSULATION AND INSULATION PROTECTION SHIELD WHERE PIPING IS INSULATED.
2. PROVIDE NEOPRENE WAFFLE INSULATION PAD, SIMILAR TO MASON TYPE "W" OR KORFUND 40, UNDER SUPPORT FOOT WHEN PIPING IS ISOLATED OR SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT.
3. FOR BASE, HEIGHT AND FLANGE DIMENSIONS, SEE TABLE.
4. USE 2 1/2" SUPPORTS FOR PIPES LESS THAN 2 1/2" DIAMETER.

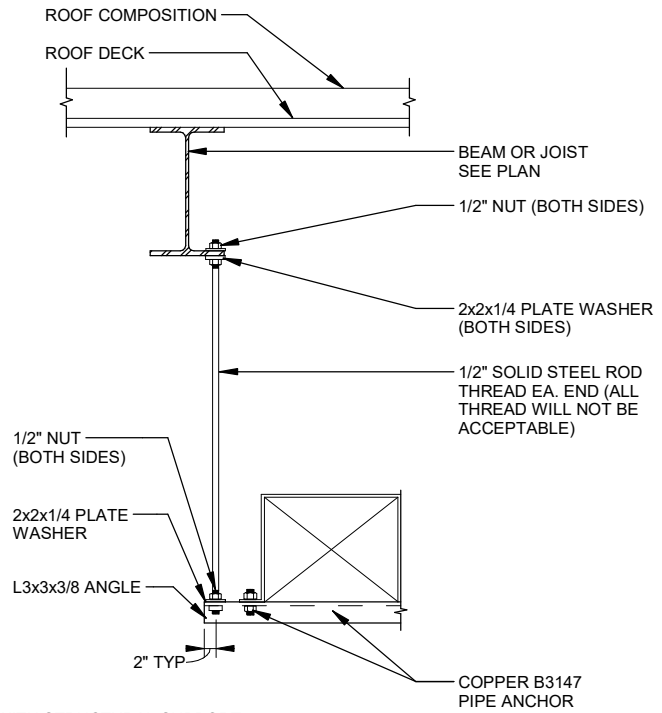
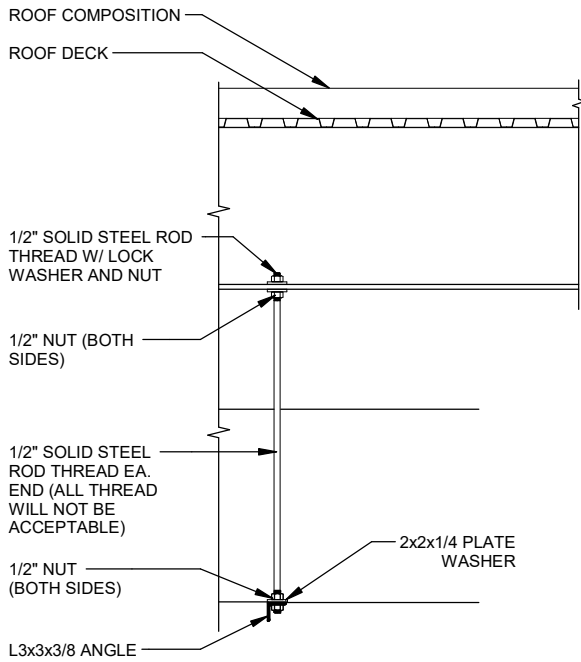


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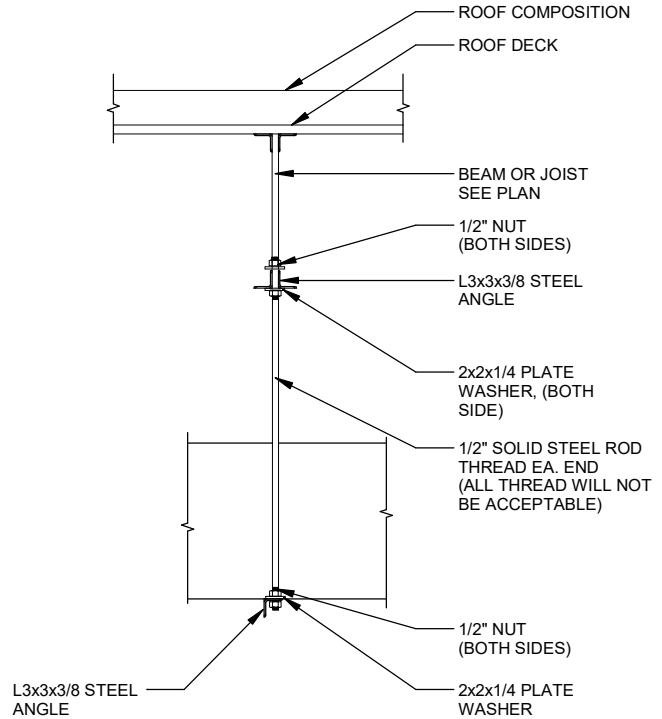
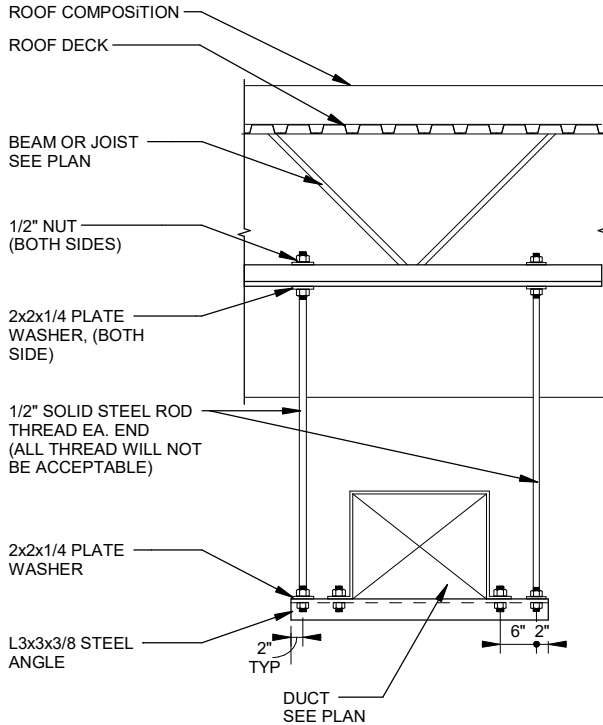
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
ADJUSTABLE FLOOR MOUNTED PIPE SUPPORT			DIVISION D22
			SECTION - DETAIL NO. 0529-001
			DATE: 02/06/2026



SUPPORT PIPE RUN PARALLEL WITH STRUCTURAL SUPPORT



SUPPORT DUCT RUN PERPENDICULAR WITH STRUCTURAL SUPPORT

NOTES:

- HANGER CLAMP SHALL BE USED IF MINIMUM EDGE SPACING CAN NOT BE ACHIEVED.
- SEE DETAIL D23 0529-003 FOR BRACED HANGER SUPPORT AS REQUIRED.
- MAXIMUM HANGER SPACING SHALL BE 10FT.

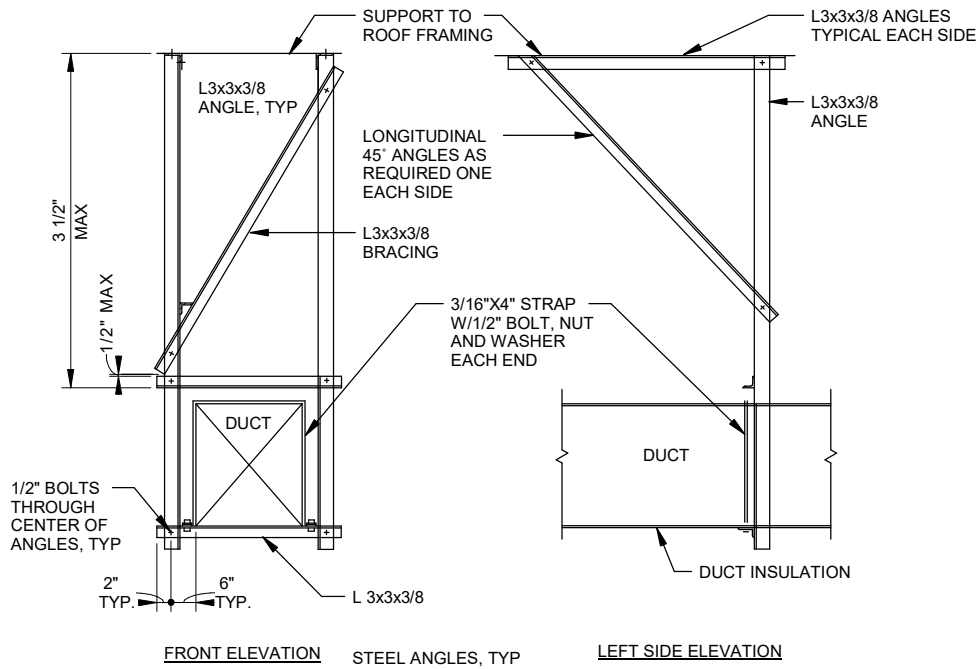


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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
DUCT HANGER SUPPORT BEAM DETAIL			DIVISION D23
			SECTION - DETAIL NO. 0529-001
			DATE: 02/06/2026



NOTES:

1. ROUND DUCT SUPPORTS SHALL BE SIMILAR.
2. SPACING OF DUCT SUPPORTS SHALL BE AS FOLLOWS
 - A. TRANSVERSE BRACING 30' OC MAX
 - B. LONGITUDINAL BRACING 60' OC MAX
 - C. TRANSVERSE BRACING SHALL BE INSTALLED AT EACH DUCT BEND AND EACH END OF A DUCT RUN REGARDLESS OF LENGTH.
 - D. WALLS, INCLUDING GYP-BOARD NON-BEARING PARTITIONS, WHICH HAVE DUCTS RUNNING THROUGH THEM MAY REPLACE A TYPICAL TRANSVERSE BRACE.
3. SEE SPEC. SECTION 05900

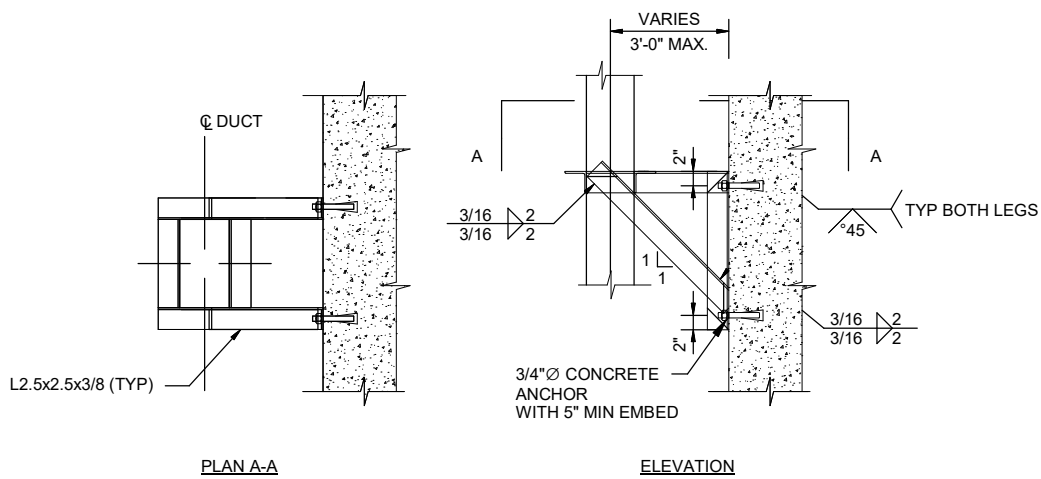


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**MOORE WWTP
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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
DUCT SUPPORTS DETAILS			DIVISION D23
			SECTION - DETAIL NO. 0529-003
			DATE: 02/06/2026



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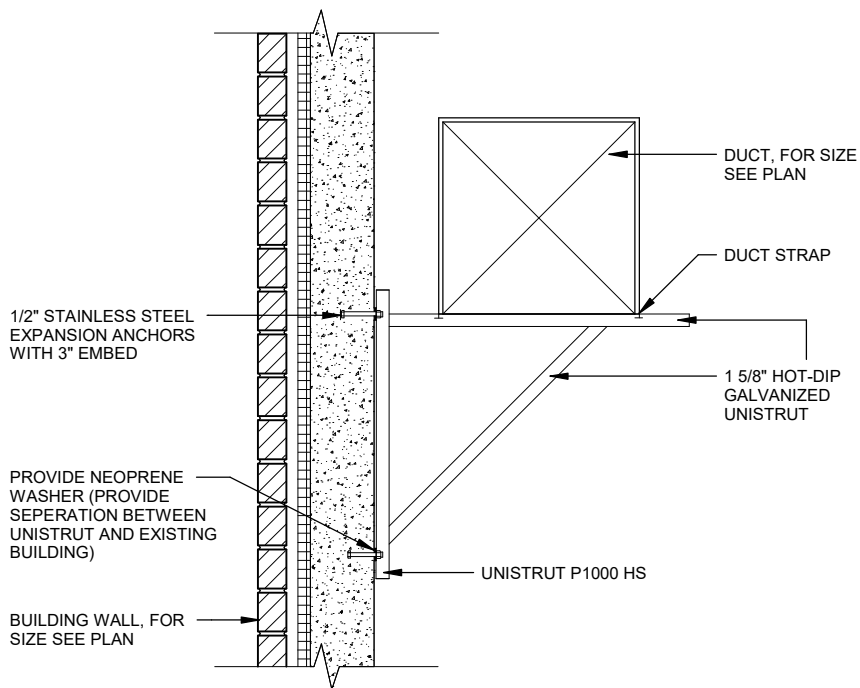
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

WALL MOUNTED VERTICAL DUCT
SUPPORT

REV	DATE	DESCRIPTION	BY
DIVISION D23			
SECTION - DETAIL NO. 0529-004			

DATE: 02/06/2026



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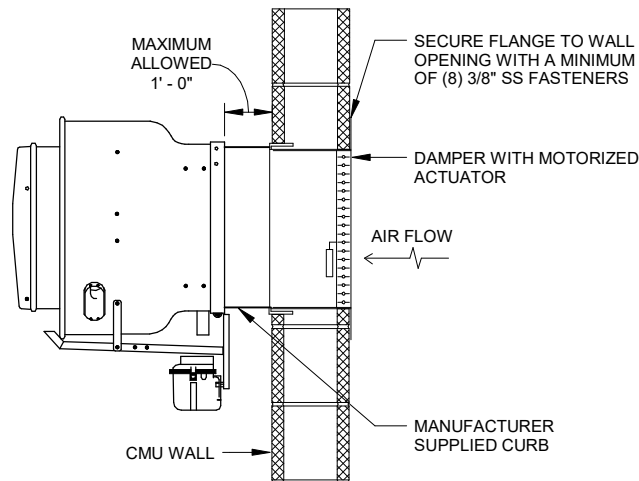
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

WALL MOUNTED DUCT SUPPORT DETAIL

DIVISION D23
SECTION - DETAIL NO. 0529-005

DATE: 02/06/2026



NOTES:

1. CONTRACTOR SHALL MOUNT AND INSTALL CENTRIFUGAL EXHAUST FAN ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
2. CONTRACTOR SHALL LUBRICATE FAN BEARINGS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.



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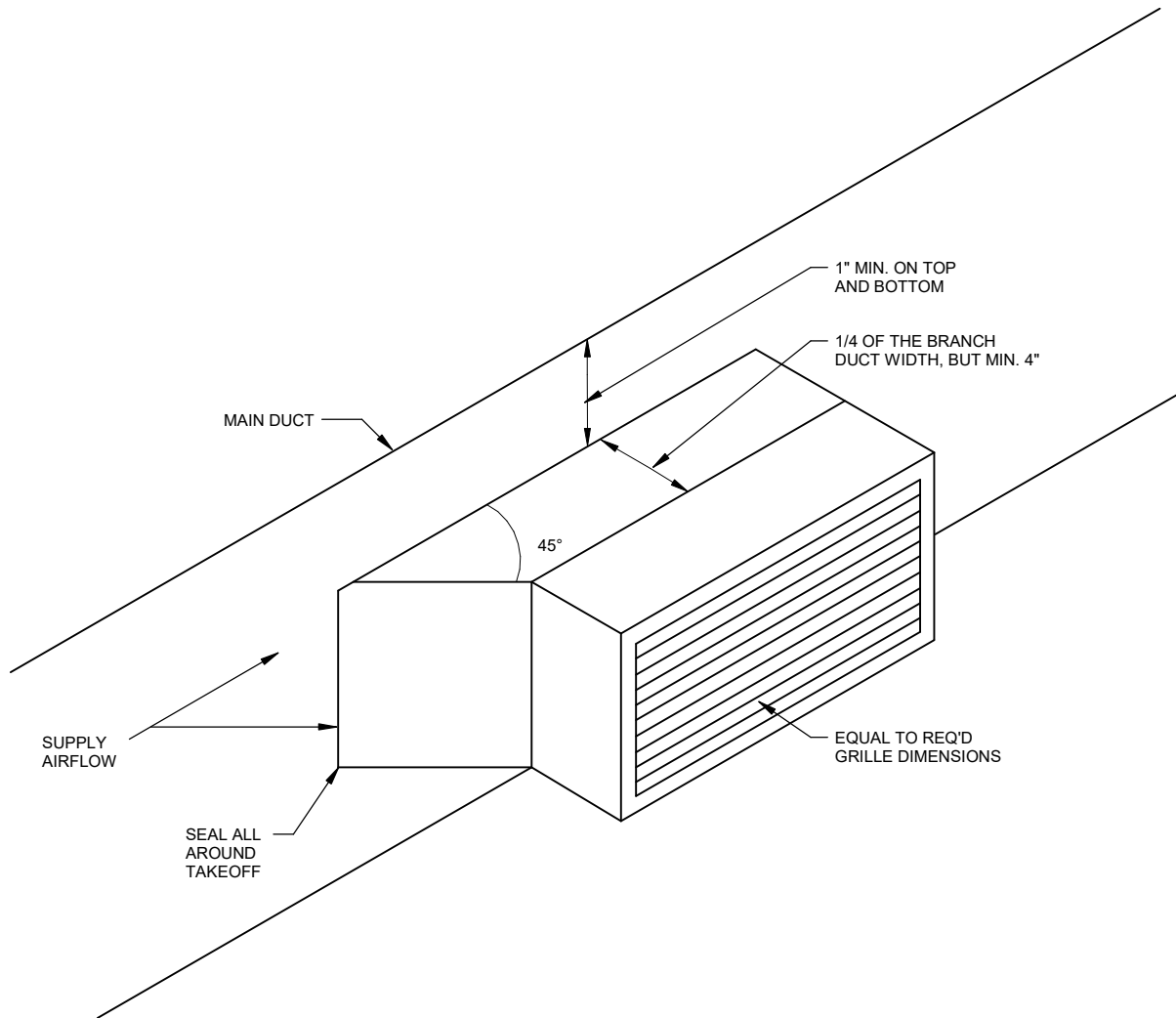
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

**WALL MOUNTED CENTRIFUGAL
TYPE EXHAUST FAN**

DIVISION
D23
SECTION - DETAIL NO.
3423-009

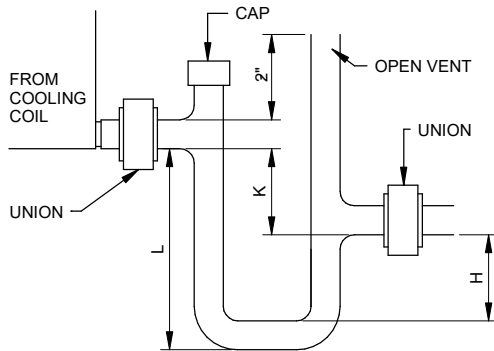
DATE: 02/06/2026



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 IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
BRANCH GRILLE TAKEOFF			DIVISION D23
			SECTION - DETAIL NO. 3713-004
DETAIL NOT TO SCALE		DATE: 02/06/2026	



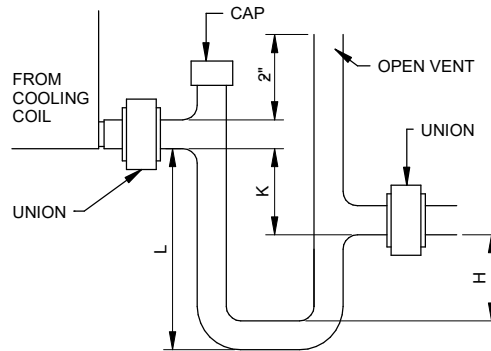
NOTES:

1. SEE DRAWINGS AND SPECS FOR SIZE, MATERIAL, SLOPE, AND POINT OF DISCHARGE.

TRAP SIZING PARAMETERS:

- $K = 1/2$ INCH MINIMUM
- $H = 1$ INCH PLUS THE TOTAL FAN STATIC PRESSURE
- $L = H + K + \text{PIPE DIAMETER}$

TRAP UNDER POSITIVE PRESSURE



NOTES:

1. SEE DRAWINGS AND SPECS FOR SIZE, MATERIAL, SLOPE, AND POINT OF DISCHARGE.

TRAP SIZING PARAMETERS:

- $K = 1$ INCH FOR EACH INCH OF NEGATIVE PRESSURE* + 1 INCH
- $H = 1/2 K$
- $L = H + K + \text{PIPE DIAMETER}$

NEGATIVE PRESSURE* = TOTAL FAN STATIC PRESSURE

TRAP UNDER NEGATIVE PRESSURE



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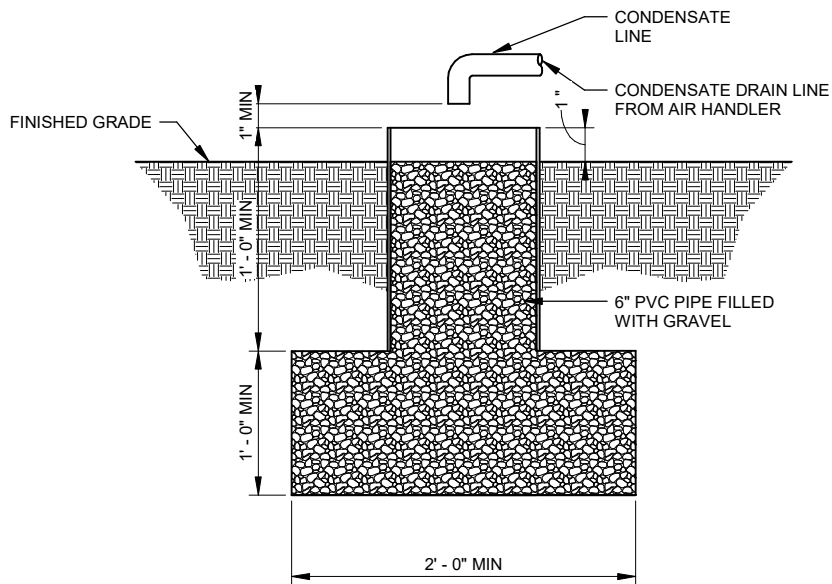
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

TYPICAL CONDENSATE DRAIN
DETAIL

DIVISION
D23
SECTION - DETAIL NO.
7413-002

DATE: 02/06/2026



NOTES:

1. GRAVEL TO BE MINIMUM OF 3 CUBIC FEET.
2. MINIMUM 6" OF EXISTING/NATURAL SOIL/DIRT BETWEEN GRAVEL AND ANY OTHER STRUCTURE



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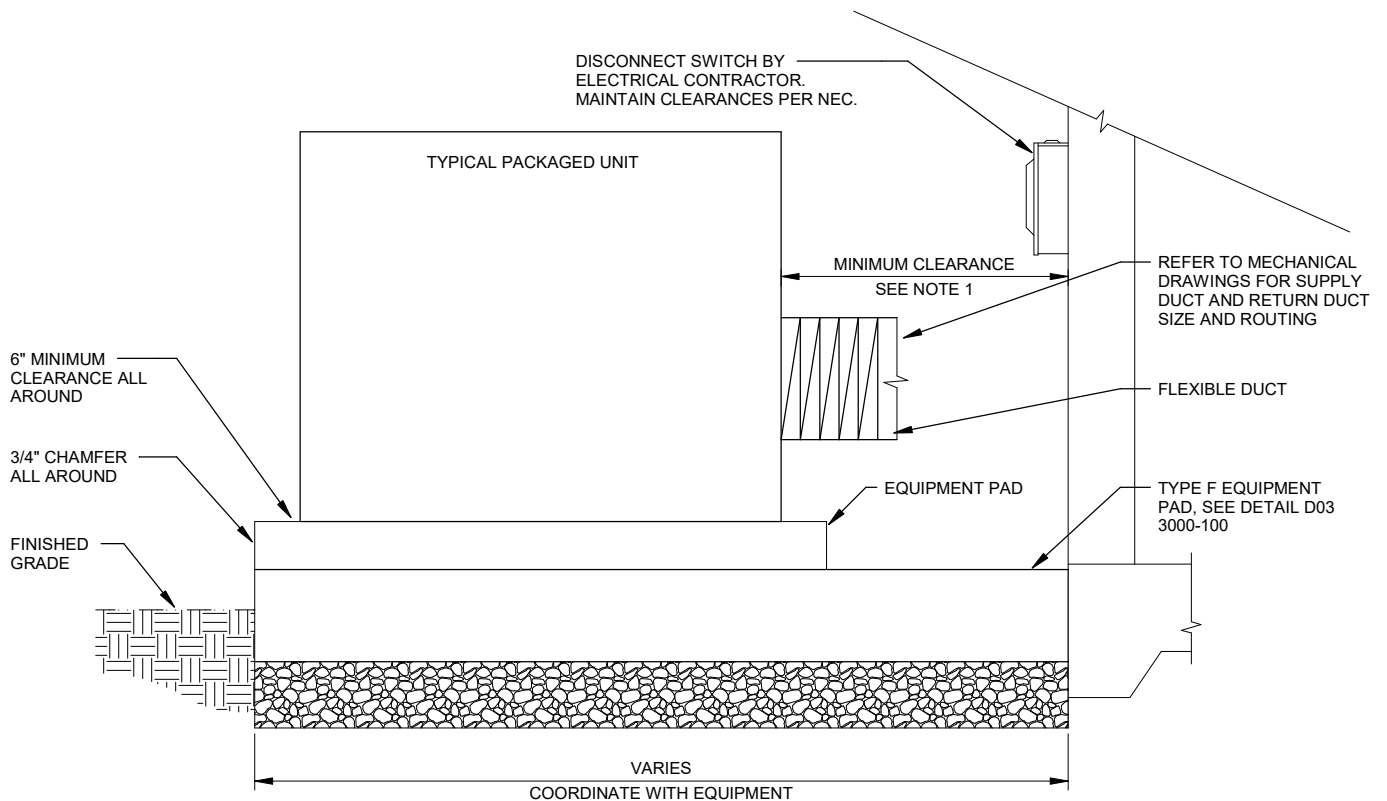
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

CONDENSATE DRAIN DRY WELL

DIVISION D23
SECTION - DETAIL NO. 7413-003

DATE: 02/06/2026



NOTES:

1. MAINTAIN MINIMUM CLEARANCES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
2. VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO PERFORMING THE ELECTRICAL INSTALLATION. FUSE ALL EQUIPMENT PER MANUFACTURER RECOMMENDATION.
3. ELECTRICAL SHALL CONFORM TO THE REQUIREMENTS IN DIVISION 26.



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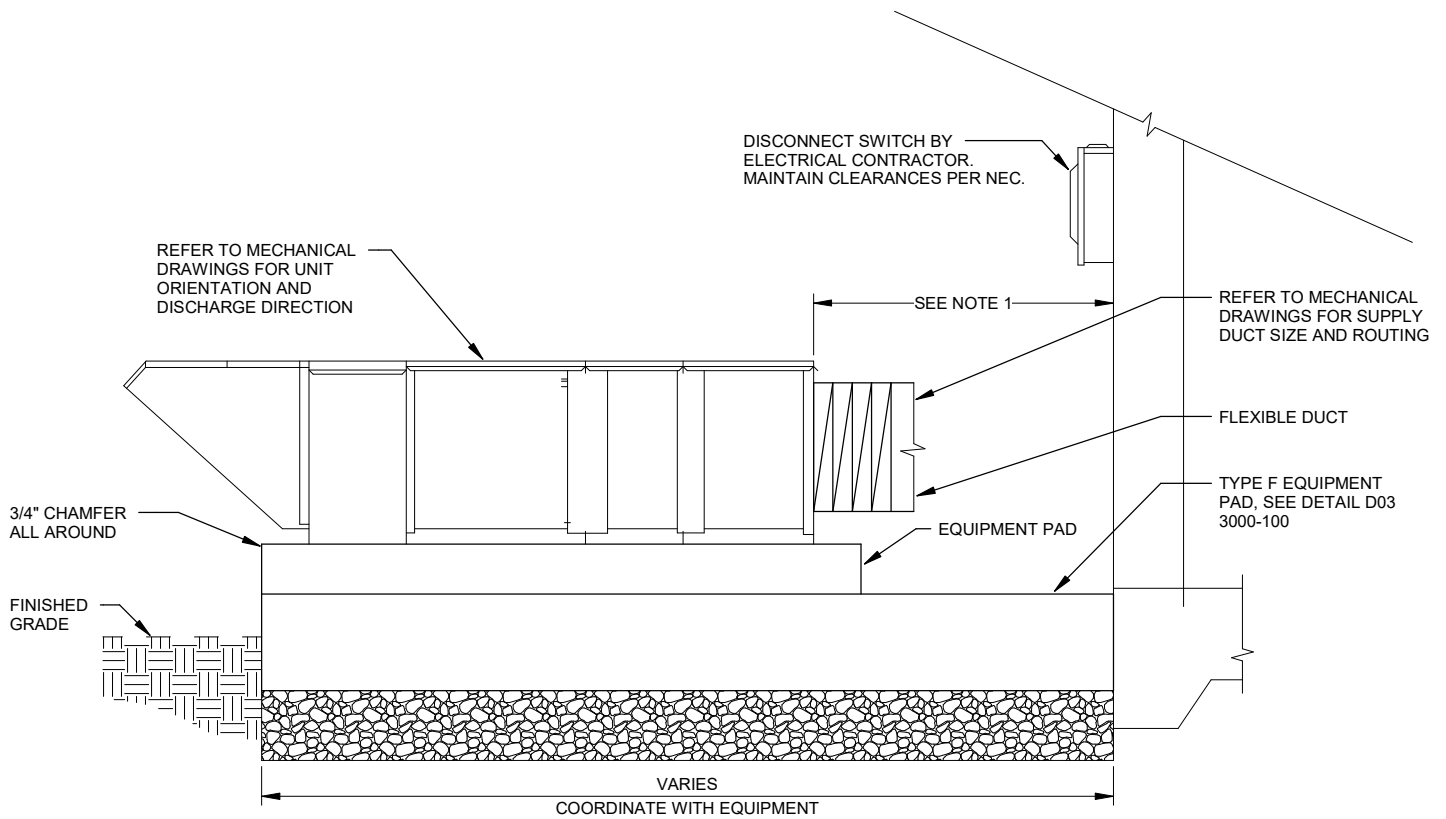
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

GROUND MOUNTED AIR CONDITIONING UNIT DETAIL

DIVISION
D23
SECTION - DETAIL NO.
7413-004

DATE: 02/06/2026



NOTES:

1. MAINTAIN MINIMUM CLEARANCES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
2. VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO PERFORMING THE ELECTRICAL INSTALLATION. FUSE ALL EQUIPMENT PER MANUFACTURER RECOMMENDATION.
3. ELECTRICAL SHALL CONFORM TO THE REQUIREMENTS IN DIVISION 26.



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JOB NO.: 2202254/2501328/2500545

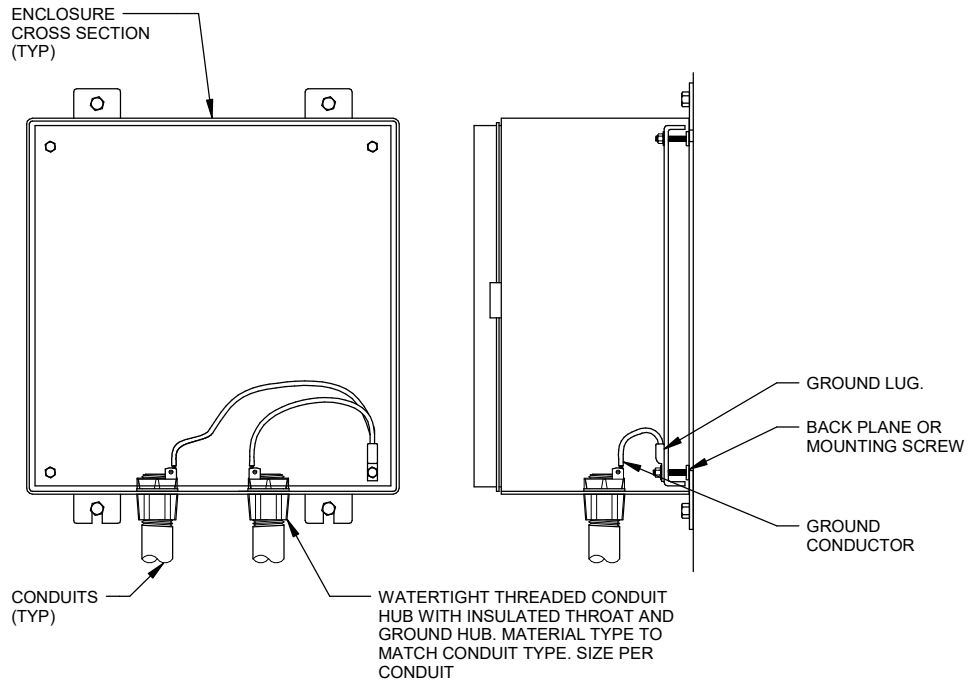
DETAIL NOT TO SCALE

**GROUND MOUNTED MAKEUP AIR
UNIT DETAIL**

DIVISION
D23

SECTION - DETAIL NO.
8301-001

DATE: 02/06/2026



NOTES:

1. ALL SERVICE, FEEDER AND CONTROL
CONDUITS SHALL BE GROUNDED ON
BOTH ENDS.

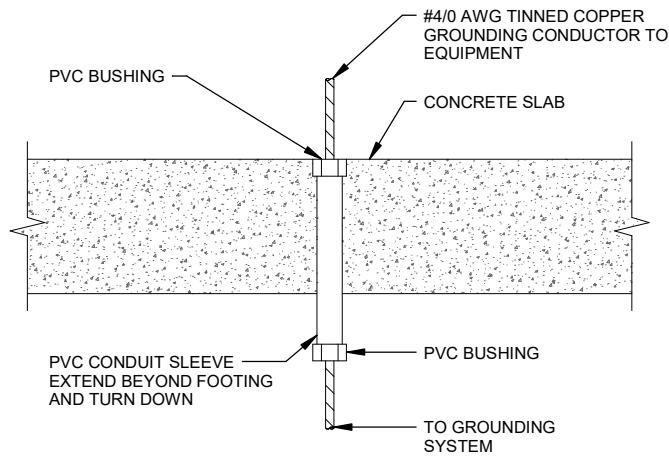


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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
CONDUIT GROUNDING DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0526-006
			DATE: 02/06/2026



NOTES:

1. EXTEND PVC CONDUIT TO TOP OF BASE, OR PEDESTAL FOR BASE, FOR PEDESTAL MOUNTED EQUIPMENT. SUPPORT AT (2) PLACES(MIN).
2. SEAL ALL SLEEVES TO PREVENT WATER PENETRATION.



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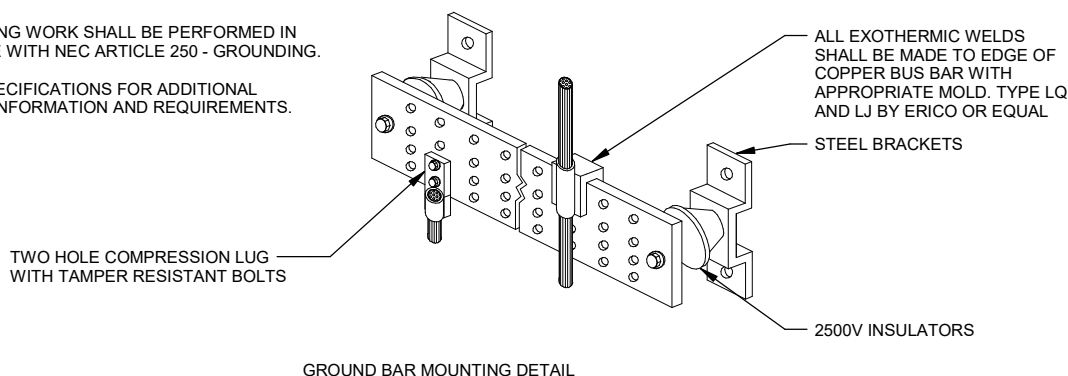
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DETAIL NOT TO SCALE

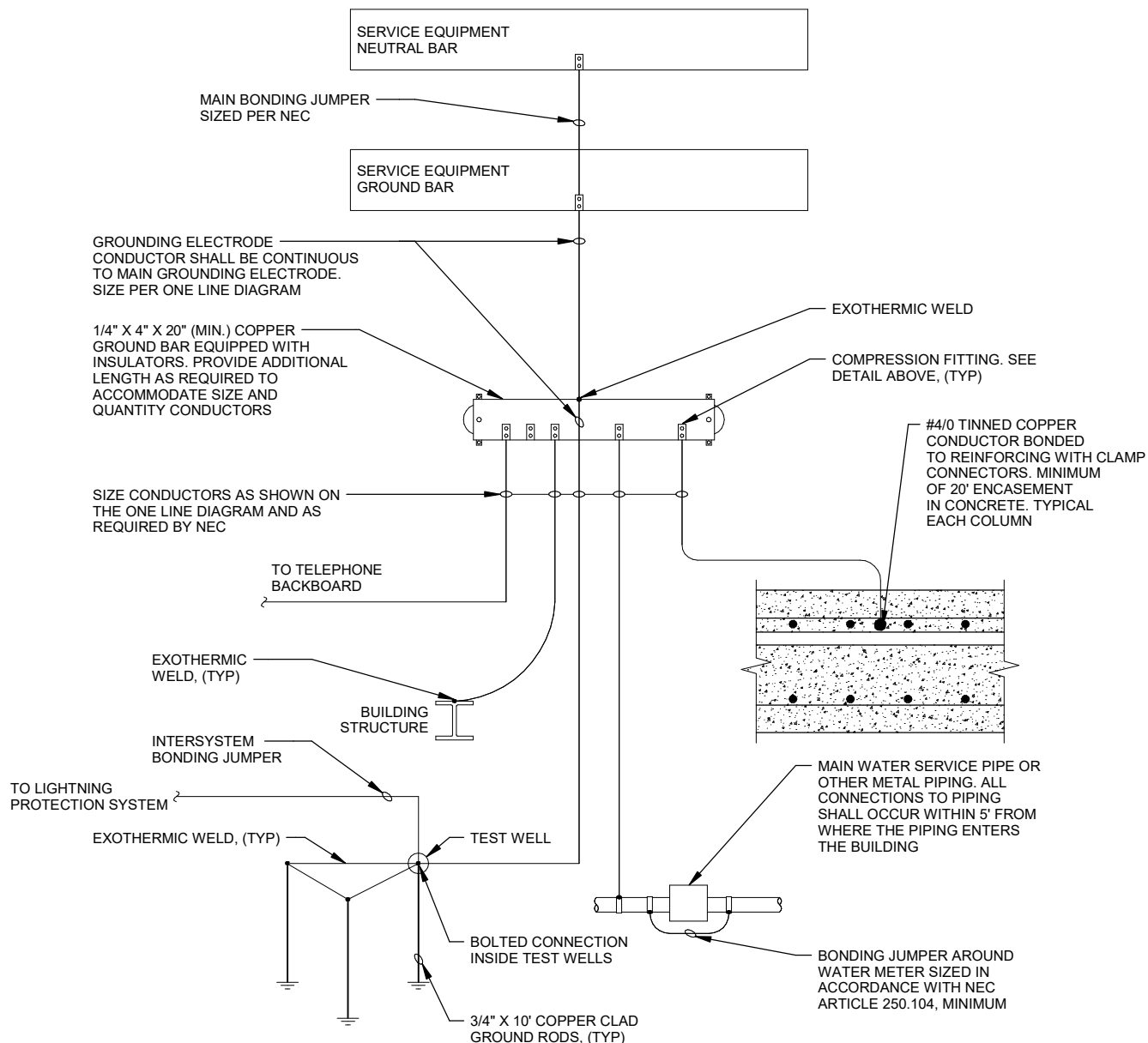
REV	DATE	DESCRIPTION	BY
GROUNDING CONDUIT SLEEVE DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0526-009
			DATE: 02/06/2026

NOTES:

1. ALL GROUNDING WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEC ARTICLE 250 - GROUNDING.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL GROUNDING INFORMATION AND REQUIREMENTS.



GROUND BAR MOUNTING DETAIL

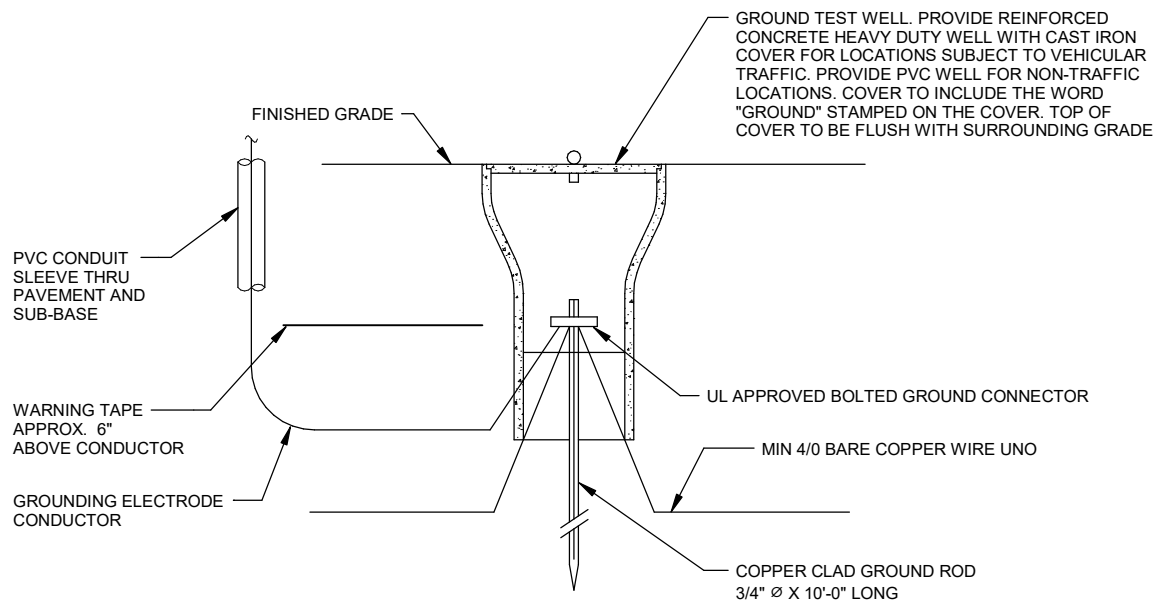


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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
GROUND SYSTEM CONNECTION DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0526-012
			DATE: 02/06/2026

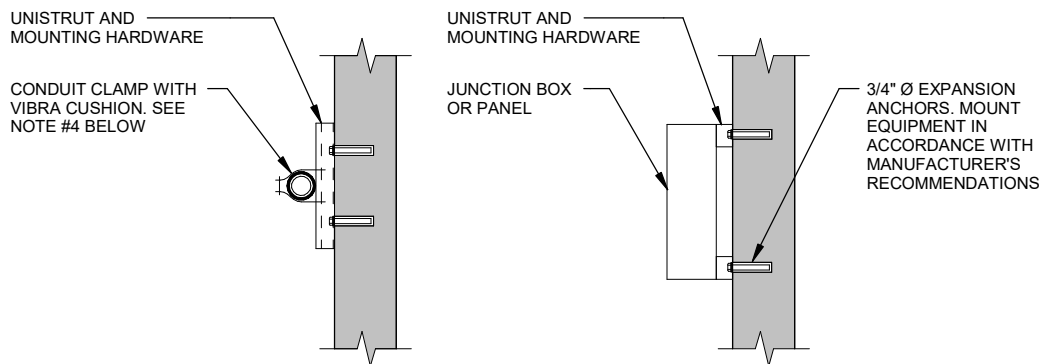


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MOORE WWTP
IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
TYPICAL GROUND ROD WITH TEST WELL INSTALLATION			DIVISION D26
			SECTION - DETAIL NO. 0526-013
			DATE: 02/06/2026



NOTES:

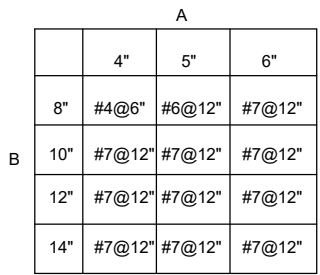
1. UNISTRUT AND MOUNTING HARDWARE MATERIAL AS CALLED OUT IN ELECTRICAL PLAN SHEETS AND SPECIFICATIONS.
2. SINGLE CONDUIT SHOWN. SIMILAR FOR MULTIPLE CONDUITS.
3. SIMILAR FOR ALL ELECTRICAL ENCLOSURES AND PANELS.
4. VIBRA CUSHION ONLY REQUIRED WHERE NEEDED TO PREVENT METAL TO METAL CONTACT OF DISSIMILAR METAL TYPES OR WHERE EXCESSIVE VIBRATION MAY OCCUR.

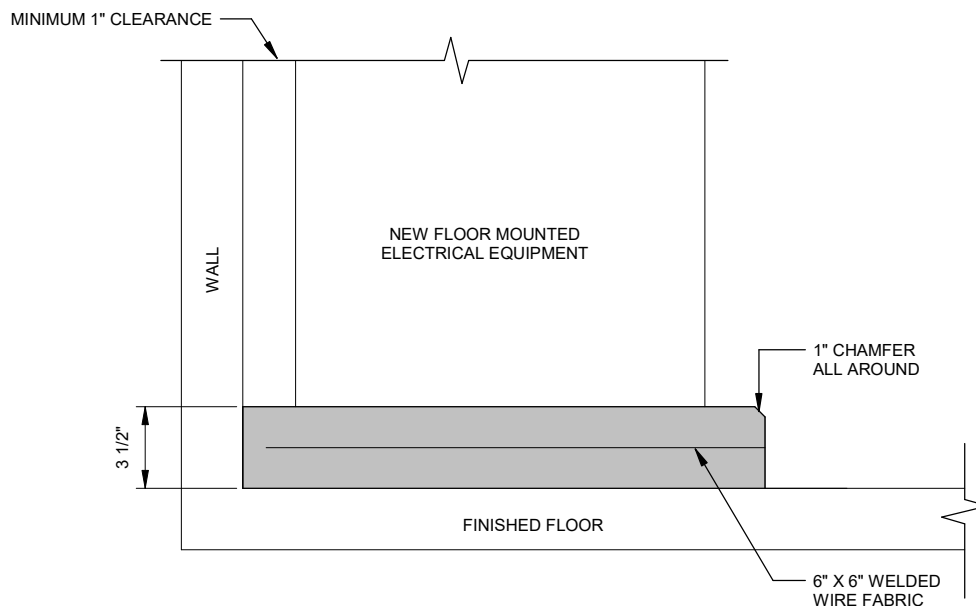


CITY OF MOORE
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**MOORE WWTP
 IMPROVEMENTS**
 JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
CONDUIT AND JUNCTION BOX SUPPORT DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0529-001
DETAIL NOT TO SCALE		DATE: 02/06/2026	

1. ALL BOLTS, NUTS, WASHERS, ANCHORS, PLATES, AND OTHER MOUNTING STEMS SHALL BE CORROSION RESISTANT, STAINLESS STEEL.
2. BOND ELECTRICAL EQUIPMENT SUPPORT FRAME TO GROUND RING USING 1-#2 AWG MINIMUM AND CLAMPING CONNECTION. SLEEVE PENETRATION.
3. PROVIDE 3' LANDING IN FRONT OF ENCLOSURE.
4. DISTURBED SOIL MUST BE REPLACED WITH COMPACTED SUBGRADE OR COMPACTED GRANULAR FILL.





NOTES:

1. PROVIDE HOUSEKEEPING PADS FOR ALL NEW FLOOR-MOUNTED ELECTRICAL EQUIPMENT INCLUDING SWITCHES, PANELBOARDS, TRANSFORMERS, MOTOR CONTROL CENTERS, AND SWITCHGEAR.
2. INSTALL STAINLESS STEEL EXPANSION ANCHORS AND SECURE ALL EQUIPMENT TO PAD PER MANUFACTURER INSTRUCTIONS.
3. HOUSEKEEPING PADS SHALL BE POURED LEVEL AND FLAT. PROVIDE LEVELING PLATES UNDERNEATH EQUIPMENT AS REQUIRED.

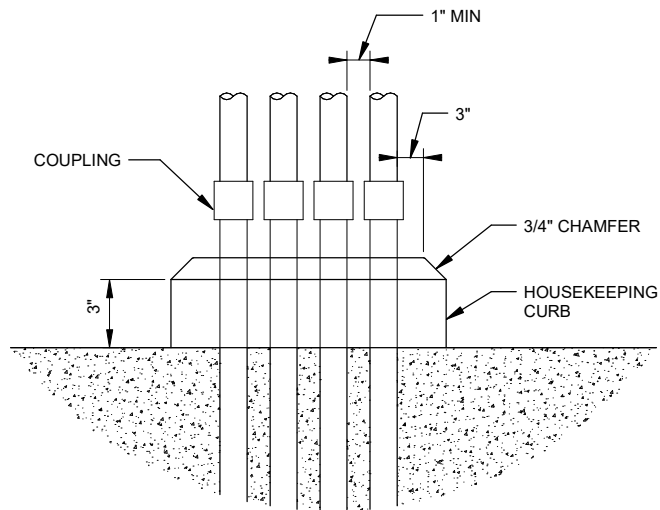


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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
ELECTRICAL CONCRETE HOUSEKEEPING PAD DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0529-003
			DATE: 02/06/2026



NOTE:

1. HOUSEKEEPING CURB REQUIRED AT ALL INTERIOR WALL LOCATIONS FOR SINGLE AND MULTIPLE RISERS.

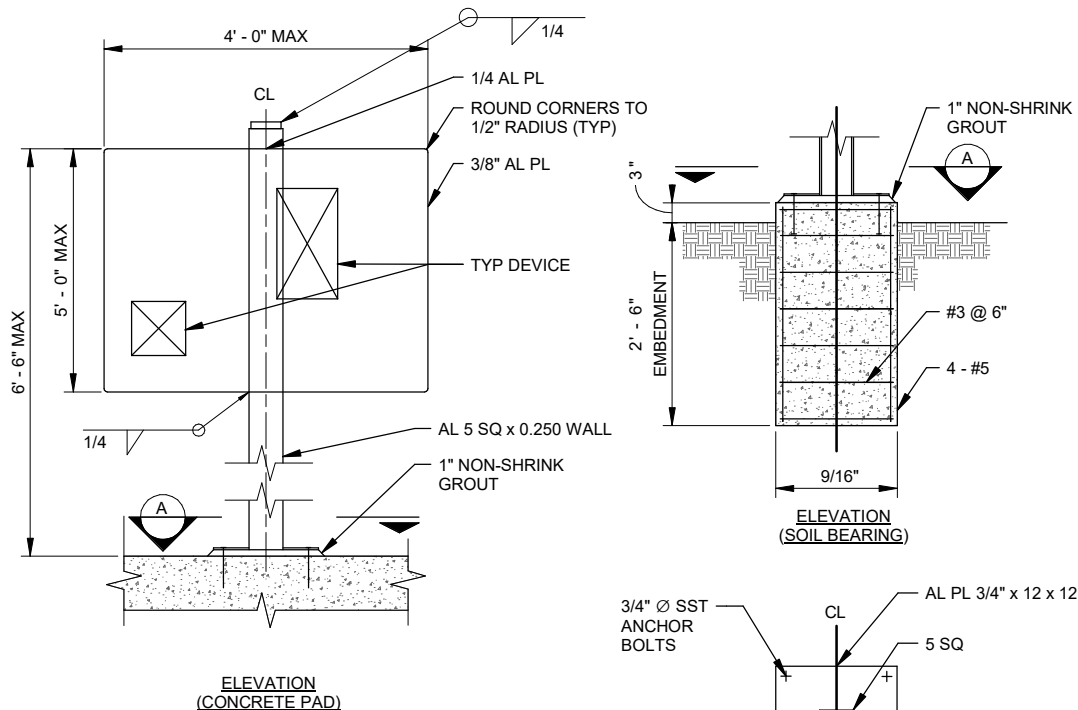


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**MOORE WWTP
IMPROVEMENTS**



JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
CONCRETE HOUSEKEEPING CURB DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0529-004
			DATE: 02/06/2026



NOTE:

- WHERE SEPARATE FOUNDATION IS REQUIRED, SEE:  
0529-011 0529-012
- COAT ALUMINUM SURFACES IN CONTACT W/ CONCRETE PER SPECS.
- USE STAINLESS STEEL FASTENERS FOR MOUNTING DEVICES.
- WEIGHT OF DEVICE(S) SHALL NOT EXCEED 300 POUNDS.



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DETAIL NOT TO SCALE

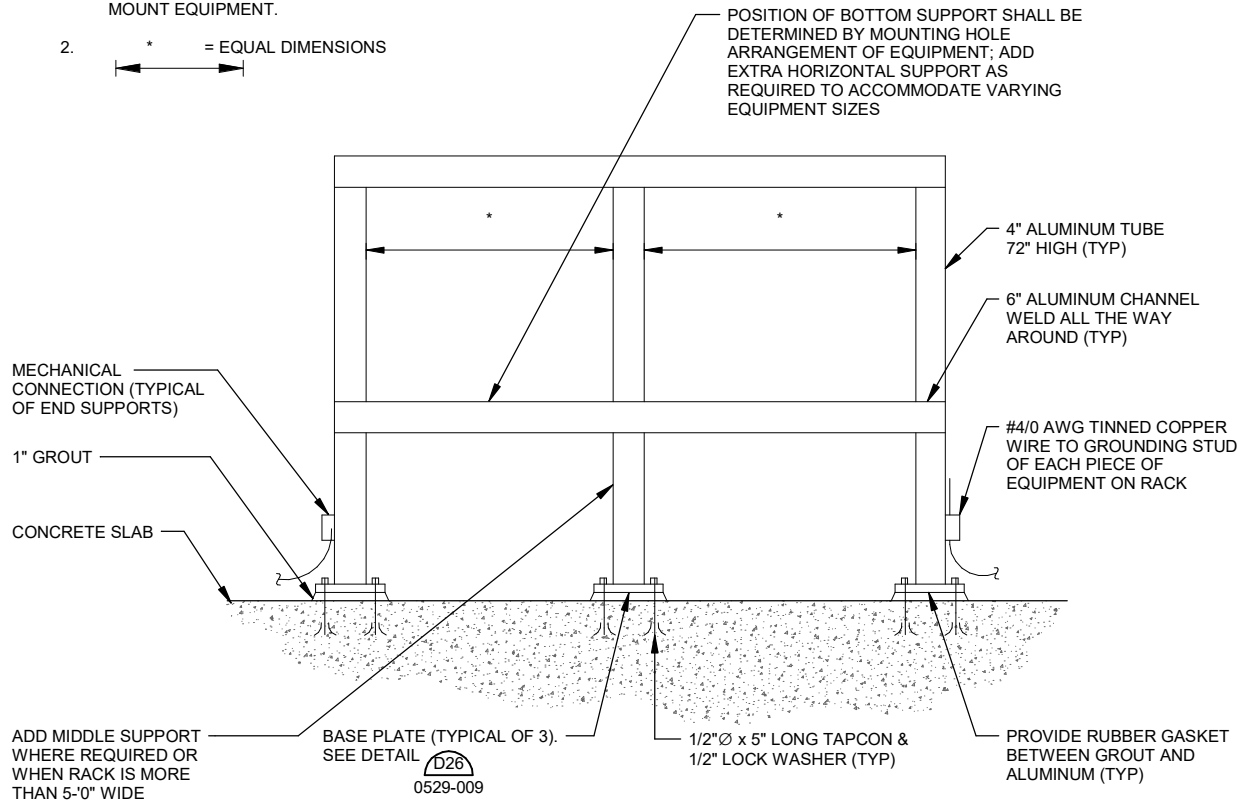
DEVICE SUPPORT AND MOUNTING

DIVISION
D26
SECTION - DETAIL NO.
0529-007

DATE: 02/06/2026

NOTE:

1. USE STAINLESS STEEL HARDWARE TO MOUNT EQUIPMENT.
2. * = EQUAL DIMENSIONS

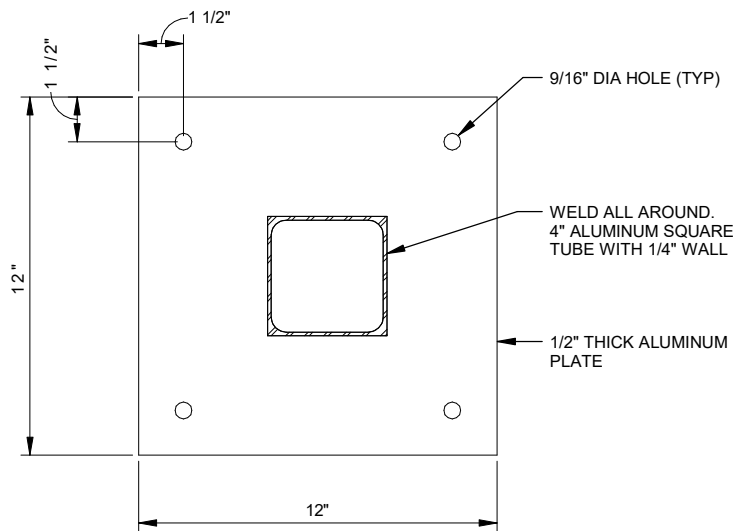


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IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
HEAVY DUTY ELECTRICAL EQUIPMENT RACK DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0529-008
			DATE: 02/06/2026

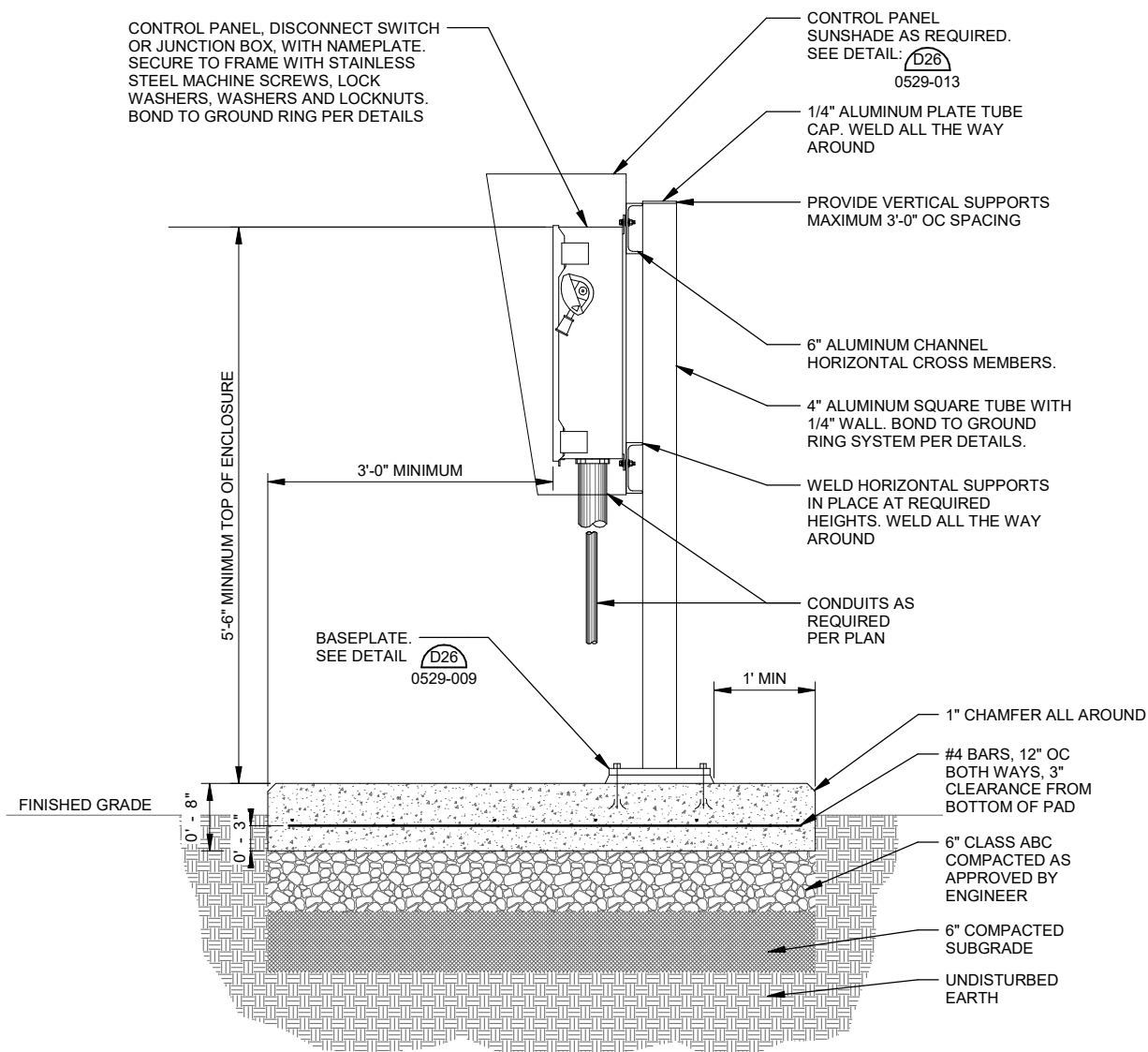


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IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
TYPICAL RACK BASEPLATE DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0529-009
			DATE: 02/06/2026



NOTES:

1. ALL BOLTS, NUTS, WASHERS, ANCHORS, PLATES, AND OTHER MOUNTING STEMS SHALL BE CORROSION RESISTANT, STAINLESS STEEL.
2. BOND ELECTRICAL EQUIPMENT SUPPORT FRAME TO COUNTERPOISE AND GROUND RINGS USING 1-#2 AWG MINIMUM AND CLAMPING CONNECTION. SLEEVE PAD PENETRATION.
3. OMIT PAD WHERE NOT SHOWN.



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IMPROVEMENTS**

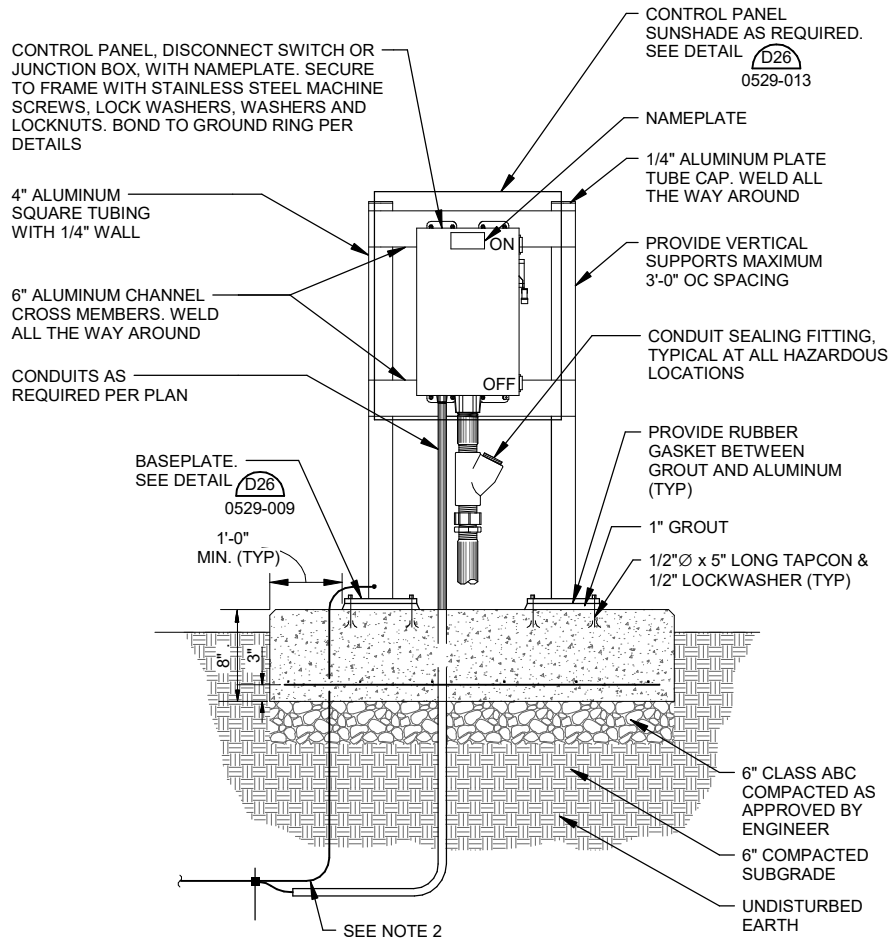
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

**TYPICAL ELECTRICAL EQUIPMENT
MOUNTING DETAIL - SIDE VIEW**

DIVISION
D26
SECTION - DETAIL NO.
0529-011

DATE: 02/06/2026



NOTES:

1. ALL BOLTS, NUTS, WASHERS, ANCHORS, PLATES, AND OTHER MOUNTING STEMS SHALL BE CORROSION RESISTANT, STAINLESS STEEL.
2. BOND ELECTRICAL EQUIPMENT SUPPORT FRAME TO COUNTERPOISE AND GROUND RINGS USING 1-#2 AWG MINIMUM AND CLAMPING CONNECTION. SLEEVE PAD PENETRATION.
3. OMIT PAD WHERE NOT SHOWN.



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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

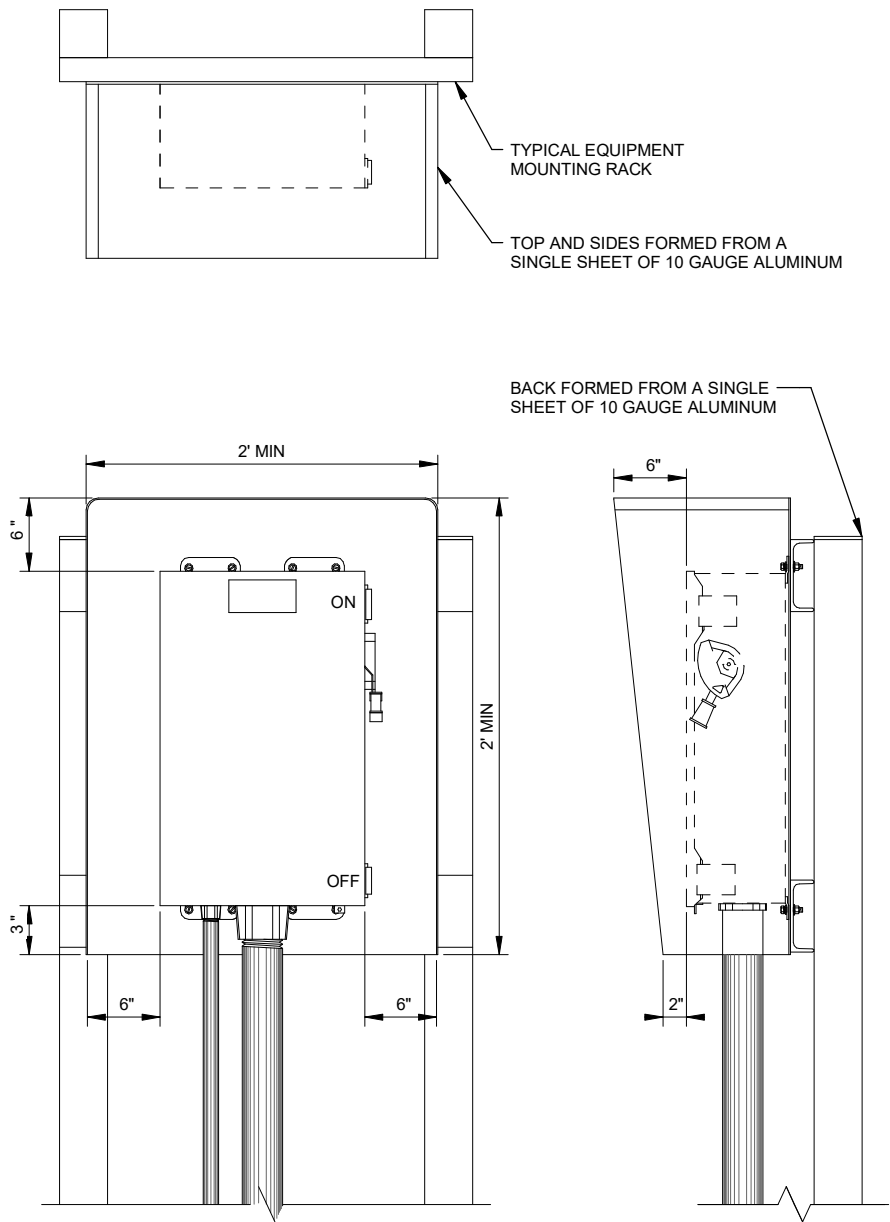
**TYPICAL ELECTRICAL EQUIPMENT
MOUNTING DETAIL- FRONT VIEW**

DIVISION
D26
SECTION - DETAIL NO.
0529-012

DATE: 02/06/2026

NOTES:

1. ALL EXPOSED EDGES TO BE GROUND SMOOTH AND BURR FREE.
2. MOUNT HOOD BETWEEN INSTRUMENT AND MOUNTING BRACKET.
DRILL HOLES IN HOOD AS PER MOUNTING HOLES FOR INSTRUMENTS.

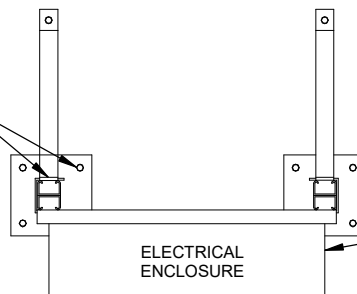


CITY OF MOORE
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MOORE WWTP
IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
TYPICAL SUN SHIELD FOR CONTROL PANEL AND INSTRUMENTS			DIVISION D26
			SECTION - DETAIL NO. 0529-013
DETAIL NOT TO SCALE			DATE: 02/06/2026

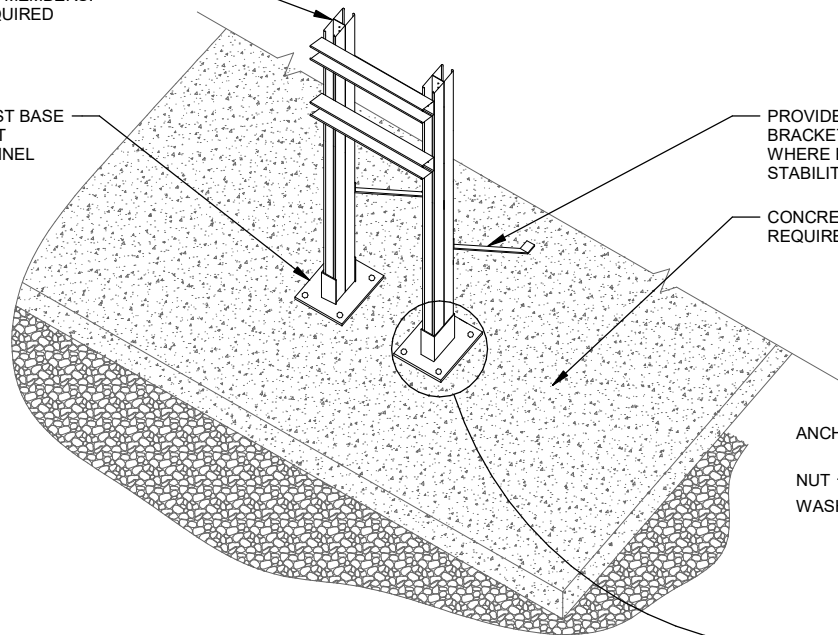
STAINLESS STEEL MOUNTING BRACKET, FOUR HOLE, DOUBLE POST, SECURE TO FRAME WITH STAINLESS STEEL BOLTS, LOCK WASHERS, WASHERS AND LOCKNUTS, SECURE TO CONCRETE PAD WITH 4" MIN. STAINLESS STEEL WEDGE ANCHOR BOLTS (TYP)



CONTROL PANEL
SUNSHIELD AS REQUIRED.
SEE DETAIL: **D26**
0529-013

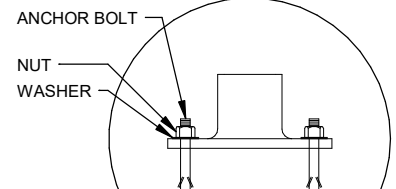
DOUBLE BACKED 1-5/8" STAINLESS STEEL
UNISTRUT FRAME AND SINGLE 1-5/8"
STAINLESS STEEL CROSS MEMBERS.
CROSS MEMBERS AS REQUIRED

SQUARED POST BASE
FOR UNISTRUT
DOUBLE CHANNEL



PROVIDE KNEE BRACING
BRACKET, 1/4" THICK,
WHERE REQUIRED FOR
STABILITY. (OPTIONAL)

CONCRETE PAD AS
REQUIRED



(TYP) 4 CORNERS

NOTES:

1. ALL BOLTS, NUTS, WASHERS, ANCHORS, PLATES, AND OTHER MOUNTING STEMS SHALL BE CORROSION RESISTANT, STAINLESS STEEL. CUT OFF EXCESS BOLT LENGTH.
2. UTILIZE 5/16" STAINLESS STEEL WEDGE ANCHORS AS REQUIRED. GROUT UNDERNEATH POST BASES TO FILL GAPS AS REQUIRED.
3. OMIT PAD WHERE NOT SHOWN.
4. UNISTRUT STAND DETAIL INTENDED FOR SMALL AND LIGHTWEIGHT EQUIPMENT MOUNTING APPLICATIONS. SUBMIT LOAD ANALYSIS CALCULATIONS FOR ENGINEERING APPROVAL IF UTILIZED FOR LOAD APPLICATIONS GREATER THAN 200 LBS.

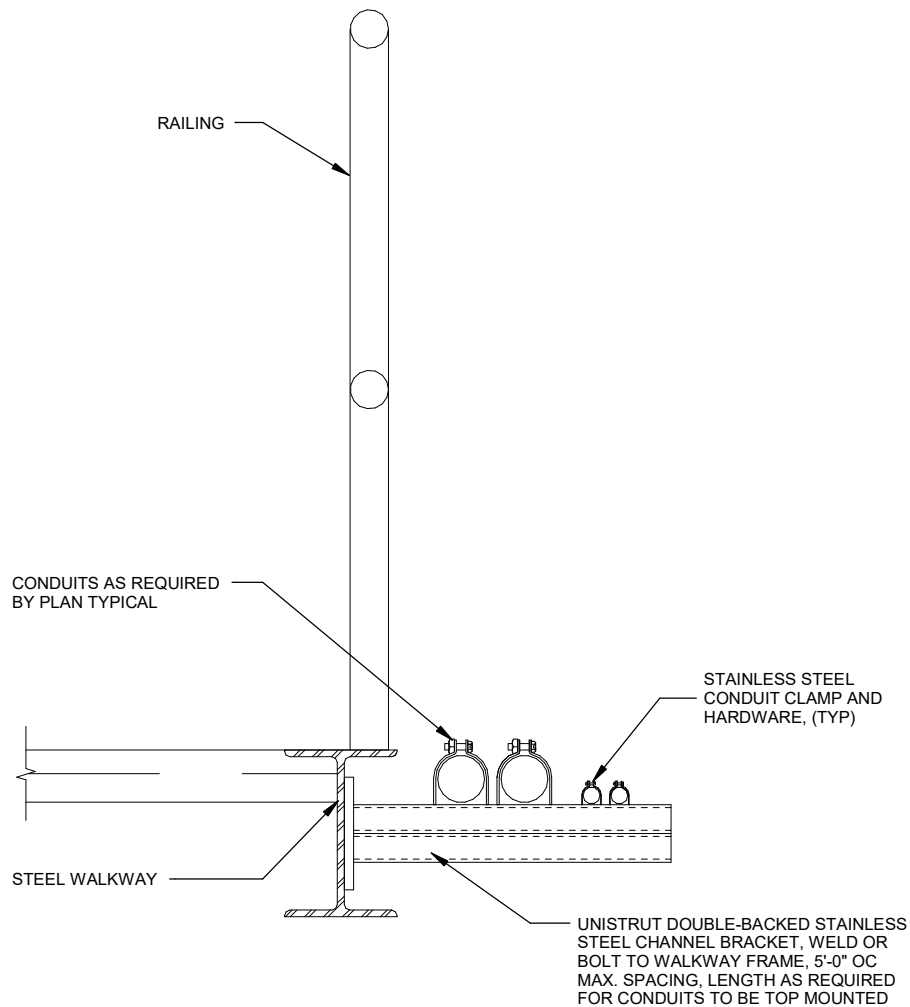


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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
TYPICAL UNISTRUT STAND DETAIL			
DIVISION D26			SECTION - DETAIL NO. 0529-014
DATE: 02/06/2026			



NOTES:

1. WALKWAY AND RAILING IS TYPICAL AND FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY WITH STRUCTURAL PLANS AND SECTIONS BEFORE INSTALLING ANY CONDUIT OR ELECTRICAL EQUIPMENT AND ADJUST ACCORDINGLY.

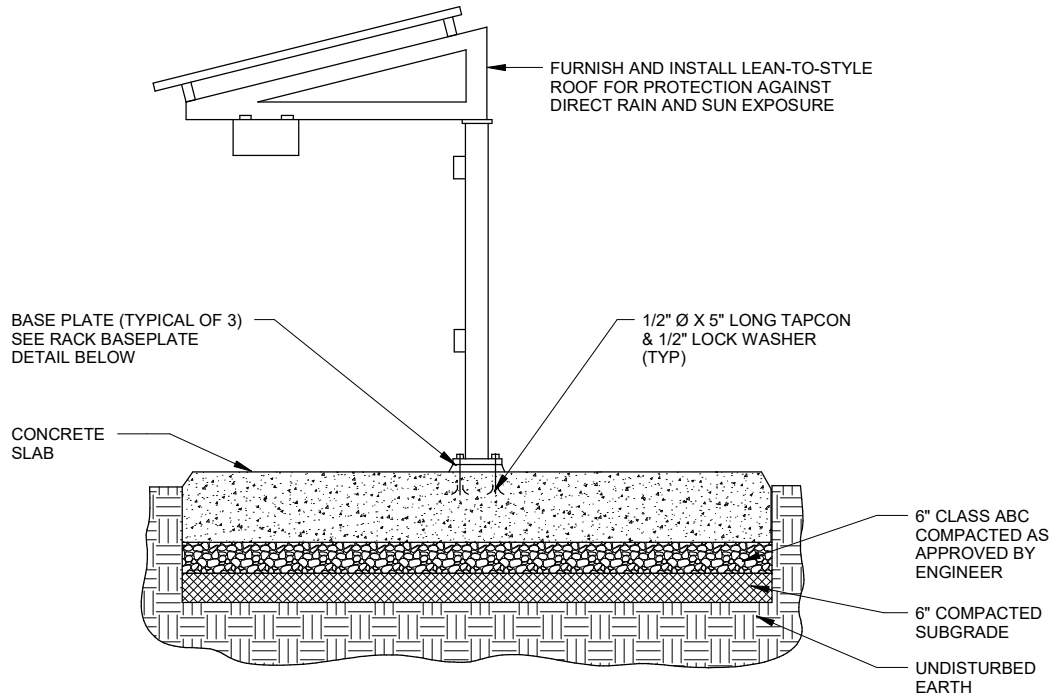
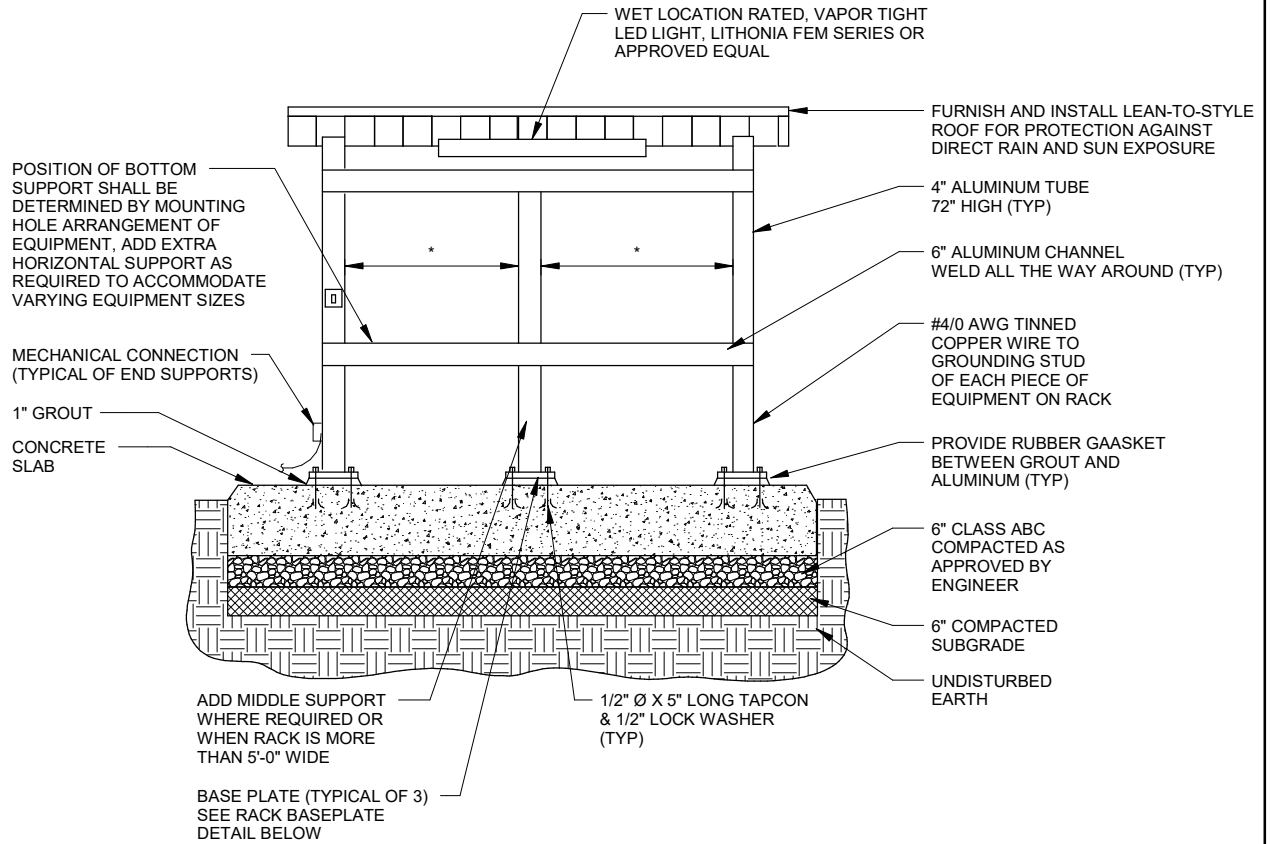


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**MOORE WWTP
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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
TYPICAL CONDUIT INSTALLATION AT WALKWAY DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0529-016
			DATE: 02/06/2026



NOTE:

1. USE STAINLESS STEEL HARDWARE TO MOUNT EQUIPMENT.
2. $\left| \begin{array}{c} \text{---} \text{---} \text{---} \end{array} \right|$ = EQUAL DIMENSIONS



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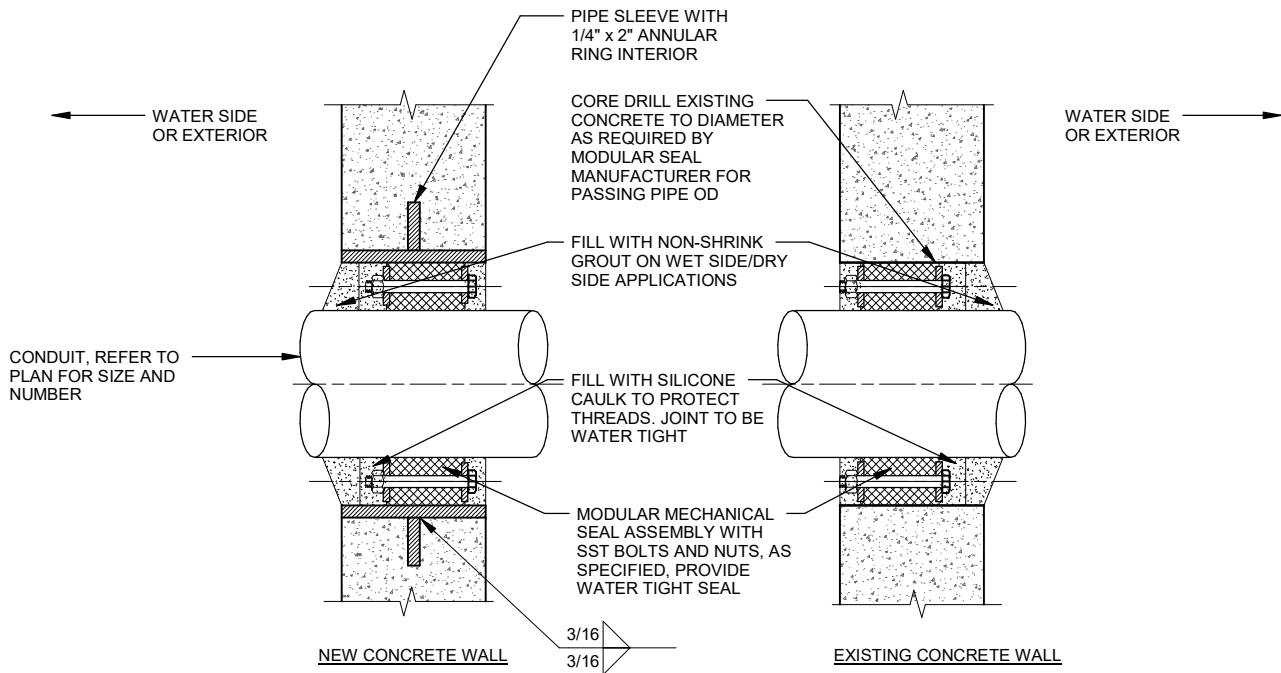
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

HEAVY DUTY ELECTRICAL
EQUIPMENT RACK W/ CANOPY
DETAIL

DIVISION
D26
SECTION - DETAIL NO.
0529-023

DATE: 02/06/2026



NOTES:

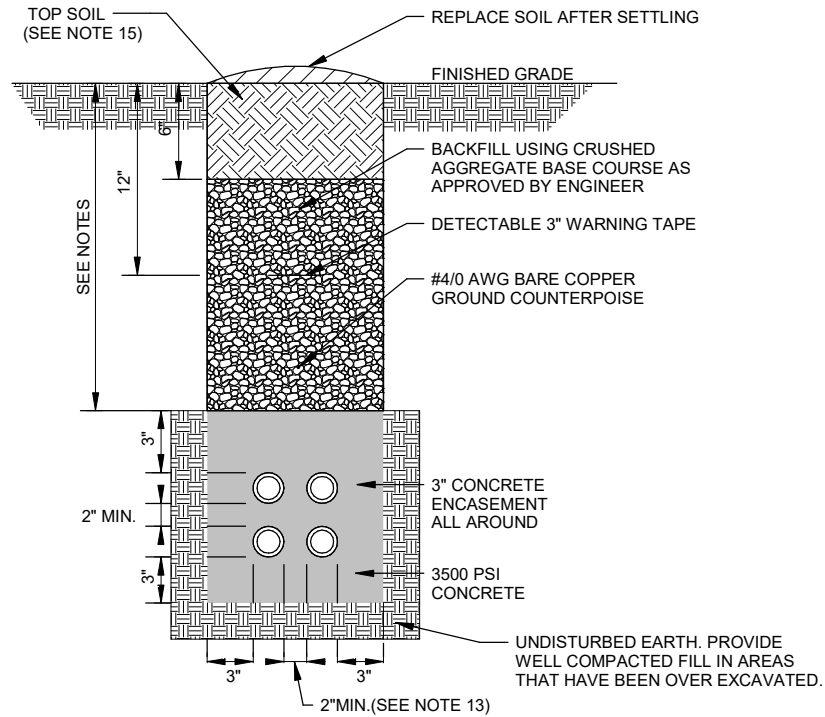
1. WHERE EXISTING CONCRETE STRUCTURE IS TO BE CORE DRILLED, THE CONTRACTOR SHALL ULTRASONIC TEST OR X-RAY THE AREA FOR EMBEDDED ITEMS BEFORE CORE DRILLING CAN PROCEED. IF EMBEDDED ITEMS ARE FOUND, NOTIFY THE ENGINEER IMMEDIATELY.
2. FOR NEW CONSTRUCTION, SLEEVES SHALL BE CAST INTO WALL. BLOCKOUTS AND SUBSEQUENT GROUTED IN SLEEVES WILL NOT BE PERMITTED UNLESS A KEYED WATERSTOP JOINT IS PROVIDED.
3. 6" DIAMETER SLEEVES AND SMALLER SHALL BE SCHEDULE 40 STEEL PIPE.
4. SLEEVES LARGER THAN 6" DIAMETER SHALL BE 1/4" THICK STEEL PIPE.
5. IN WALLS THICKER THAN 12", LINK SEAL SHALL BE INSTALLED AT BOTH ENDS OF THE WALL SLEEVE.
6. SLEEVE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.



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JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
CONDUIT WALL PENETRATION SEAL DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0533-017
DETAIL NOT TO SCALE		DATE: 02/06/2026	



NOTES:

1. CONTRACTOR SHALL STAKE THE DUCT INSTALLATION IN PLAN AND ELEVATION FOR NEW ELECTRICAL DUCTS TO AVOID EXISTING UTILITIES, STAKING PLAN SHALL BE APPROVED BY OWNER AND ENGINEER PRIOR TO WORK.
2. CONTRACTOR SHALL ADJUST THE DEPTH OF THE ELECTRICAL DUCTS AS REQUIRED TO MAINTAIN THE MINIMUM COVER REQUIREMENT INDICATED AND AVOID EXISTING UTILITIES.
3. SIMILAR CONSTRUCTION FOR OTHER DUCT SIZES. SEE ELECTRICAL PLAN SHEETS FOR QUANTITY AND SIZES.
4. INSTALL DUCT CONDUIT SUPPORTS AT 5'-0" OC MAXIMUM SPACING. UTILIZE LOCKING COLLARS OR HOLD DOWN BARS WITH ANCHORS TO PREVENT DUCT FLOTATION. (TYPICAL ALL DUCTS).
5. OFFSETS AND BENDS OVER 10 DEGREES AND ELBOWS IN PVC CONDUIT RUNS SHALL BE GALVANIZED RIGID STEEL.
6. NO PVC SHALL EMERGE FROM THE GROUND OR CONCRETE SLAB OR ENCASEMENT, PVC SHALL CONVERT TO PVC COATED GALVANIZED RIGID STEEL CONDUIT PRIOR TO ITS EMERGENCE UNLESS NOTED OTHERWISE.
7. SPARE PVC COATED GALVANIZED RIGID STEEL CONDUITS SHALL STUB UP 6" ABOVE FINISHED GRADE OR CONCRETE PAD SURFACE AND BE CAPPED WATERTIGHT.
8. INSTALL GROUND RODS AT ENDS OF ELECTRICAL DUCT AND CONNECT TO GROUND RING.
9. INSTALL CONDUCTORS AND CABLES AS NOTED ON DRAWINGS. INSTALL PULL ROPE IN ALL SPARE DUCTS.
10. MINIMUM COVER REQUIREMENT FOR DUCT BANKS UNDER ROADS, DRIVEWAYS AND PARKING LOTS SHALL BE 24".
11. MINIMUM COVER REQUIREMENTS FOR ELECTRICAL SECONDARY SERVICE DUCT BANKS SHALL BE 30".
12. MINIMUM COVER REQUIREMENTS FOR MEDIUM VOLTAGE DUCT BANKS SHALL BE 36".
13. VERTICAL AND HORIZONTAL DISTANCES BETWEEN CONDUITS SHALL BE 3" MINIMUM FOR DUCTS CONTAINING CIRCUITS OVER 600 VOLTS.
14. DUCT BANKS TO EXTEND BELOW FLOOR SLABS.
15. FOR DUCT BANKS INSTALLED IN EXISTING ASPHALT OR CONCRETE DRIVES, COVER WITH MATCHING MATERIAL TYPE AND THICKNESS.

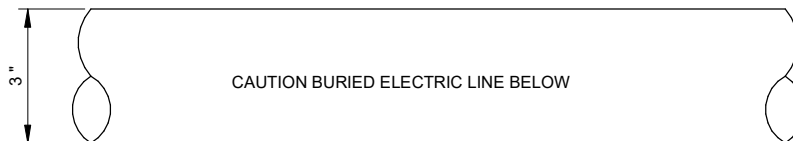


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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
CONCRETE ENCASED ELECTRICAL DUCT DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0543-012
			DATE: 02/06/2026



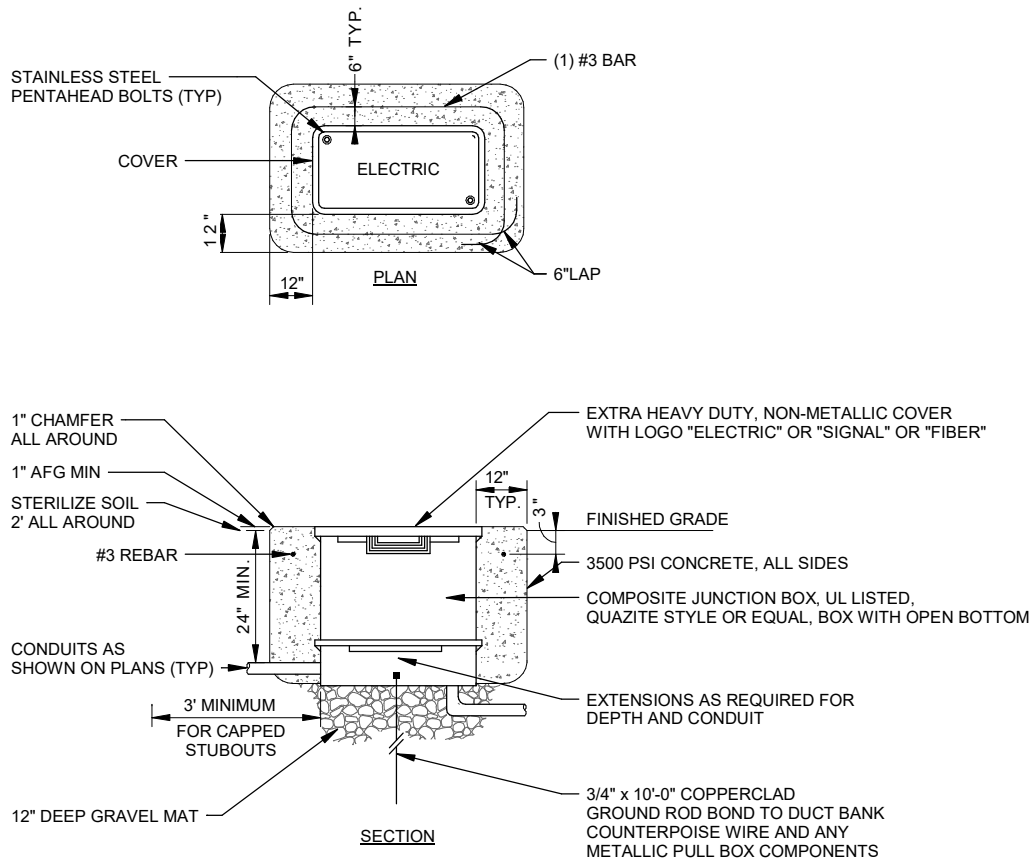
NOTES:

1. POWER MARKING TAPES SHALL BE DETECTABLE TYPE CONSTRUCTION WITH RED BACKGROUND AND BLACK LETTERING.
2. COMMUNICATION MARKING TAPES SHALL BE DETECTABLE TYPE CONSTRUCTION WITH ORANGE BACKGROUND AND BLACK LETTERING, "TELEPHONE LINE" OR "FIBER OPTIC LINE" RESPECTIVELY.
3. TAPE SHALL BE DETECTABLE, DURABLE, HIGHLY VISIBLE, RESISTANT TO ELEMENTS, MEETING AND/OR EXCEEDING ALL INDUSTRY STANDARDS.



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IMPROVEMENTS
JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
UNDERGROUND DETECTABLE WARNING TAPE DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0543-013
DETAIL NOT TO SCALE		DATE: 02/06/2026	



NOTES:

1. UNDERWRITERS LABORATORIES LISTED PULLBOX AND AN EXTRA HEAVY-DUTY COVER SHALL BE DESIGNED FOR A TEST LOAD OF 33,750 LBS AND A DESIGN LOAD OF 22,500 LBS.
2. PROVIDE PULLBOX WITH 2-2" C STUBOUTS IN EACH FACE, CAPPED WATERTIGHT.
3. PULLBOX INTERIOR DIMENSIONS SHALL BE 30"L x 17"W x 28"D OR AS REQUIRED FOR NUMBER OF CONDUITS.
4. PROVIDE MINIMUM 3' SLACK CABLE LOOP FOR EACH CABLE.
5. COLOR CODE, TAG AND IDENTIFY ALL CABLES IN UL LISTED PULLBOX.
6. EXACT LOCATION OF EACH UNDERWRITERS LABORATORIES LISTED PULLBOX SHALL BE APPROVED BY THE OWNER AND ENGINEER.

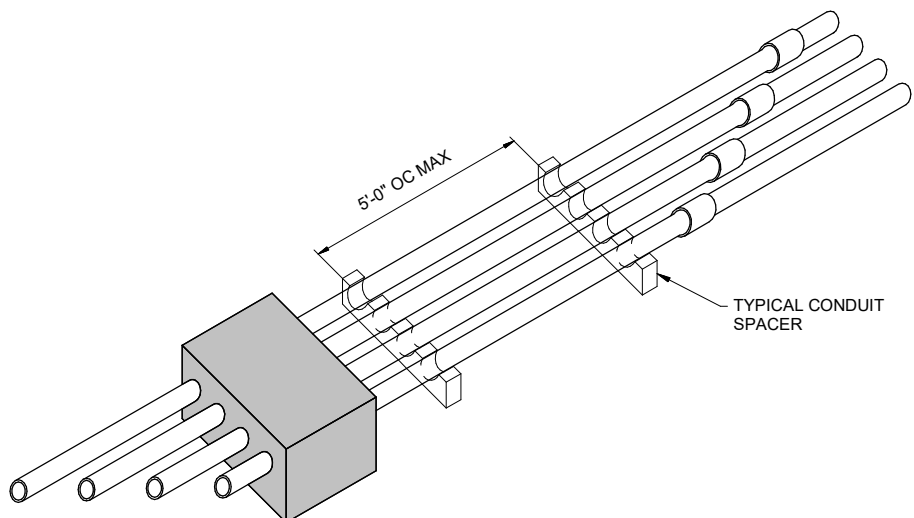


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JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
ELECTRICAL PULLBOX DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0543-014
			DATE: 02/06/2026



NOTES:

1. CONDUIT SPACER TO BE 6" MIN FROM CONDUIT COUPLINGS.
2. TYPICAL DUCTBANK COUPLINGS SHALL BE SPACED AT 6" MIN. INTERVALS.



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JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
TYPICAL DUCTBANK SPACING AND COUPLNG DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0543-015
			DATE: 02/06/2026

DETAIL NOT TO SCALE

EQUIPMENT NAMEPLATE
PER DETAIL AND NEC

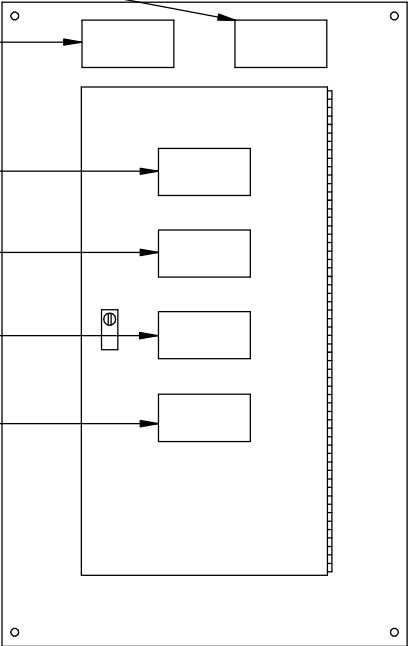
CONDUCTOR COLOR CODING
IDENTIFICATION NAMEPLATE PER NEC
ARTICLES 200.6, 210.5 AND 215.12; VERIFY
IDENTIFICATION SCHEME WITH AHJ AND
ENGINEER

ARC FLASH BOUNDARY, SHOCK
HAZARD, AND PPE REQUIREMENT
WARNING SIGN PER NEC AND NFPA 70E

ARC FLASH HAZARD WARNING
SIGN PER NEC ARTICLE 110.16
AND NFPA 70E

AVAILABLE FAULT CURRENT SIGN
INCLUDING DATE CALCULATED PER
NEC ARTICLE 110.24

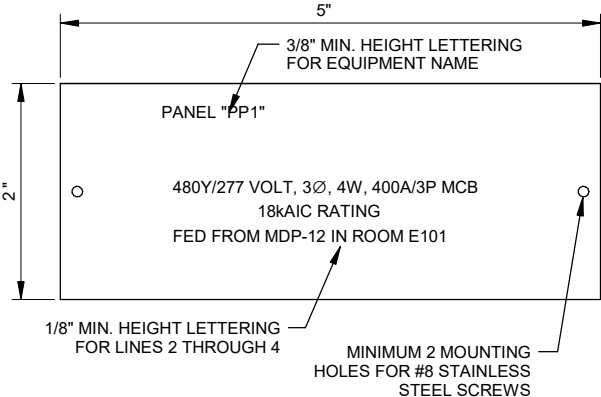
BY VOLTAGE SYSTEM TYPE, WHEN
REQUIRED, PROVIDE HIGH-LEG
IDENTIFICATION SIGN OR
UNGROUND SYSTEM SIGN BY NEC
ARTICLE 408.3(F)



PANEL FRONT VIEW

NOTE:

1. INSTALL ALL NAMEPLATES AND WARNING SIGNS IN ACCORDANCE WITH NEC AND NFPA 70E REQUIREMENTS.
2. INSTALL NAMEPLATES AND WARNING SIGNS ON ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SWITCHES, CONTROL PANELS AND MOTOR CONTROL CENTERS.
3. EXTERIOR EQUIPMENT SHALL HAVE WEATHER-RESISTANT, NON-FADING NAMEPLATES AND SIGNAGE.
4. INSTALL CIRCUIT DIRECTORY AND/OR CIRCUIT IDENTIFICATION FOR PROPER FIELD IDENTIFICATION.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



EQUIPMENT NAMEPLATE NOTES:

1. INSTALL 2-PLEX ACRYLIC, WHITE ON BLACK CORE, 5"x2" TILE, TEXT LINES AS INDICATED, CUSTOM ENGRAVED NAME PLATES.
2. MOUNT WITH STAINLESS STEEL SCREWS.
3. SEAL SCREW HOLES WITH SILICONE RUBBER.
4. NAMEPLATE INFORMATION SHALL INCLUDE:
A. IDENTIFICATION NAME.
B. VOLTAGE SYSTEM, AND AMPACITY RATING AND TYPE.
C. EQUIPMENT AIC RATING.
D. FEEDER SOURCE OF SUPPLY DESCRIPTION.



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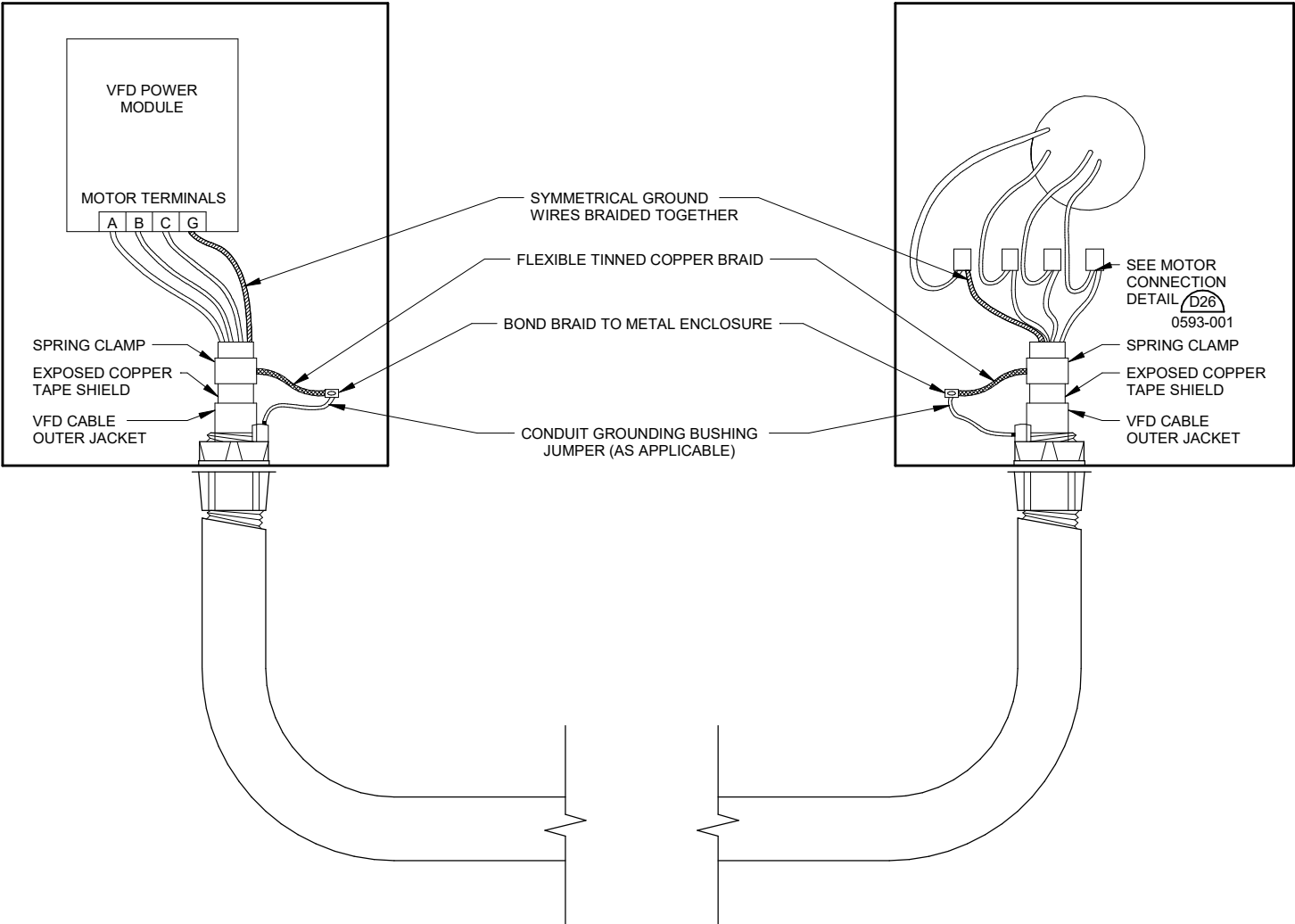
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
TYPICAL ENGRAVED NAMEPLATE DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0553-002
			DATE: 02/06/2026

VFD ENCLOSURE

MOTOR TERMINAL BOX



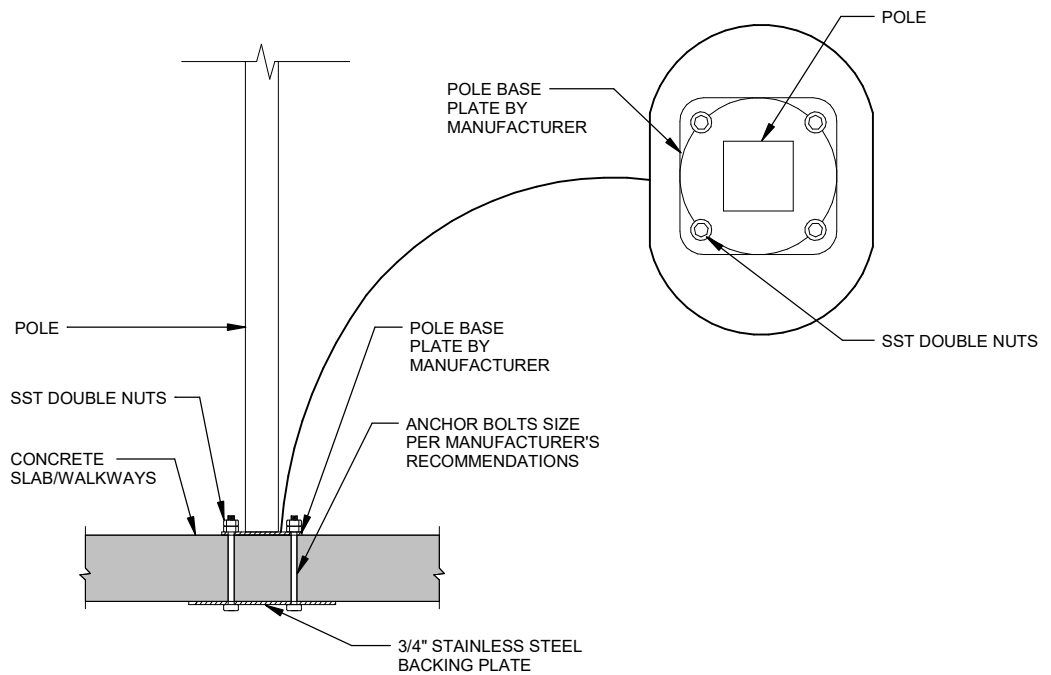
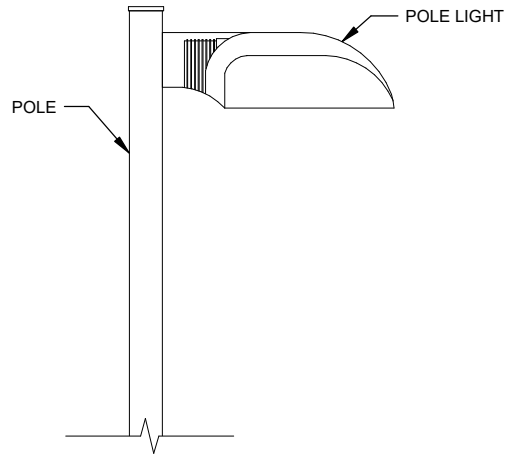
NOTE:
CONNECT VFD CABLE SHIELD ON BOTH VFD AND MOTOR ENDS USING MANUFACTURER PROVIDED SHIELD TERMINATION KIT. KIT TO INCLUDE TINNED COPPER BRAID AND SPRING CLAMP FOR ATTACHING BRAID TO COPPER TAPE SHIELD.



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IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
SHIELDED VFD CABLE TERMINATION DETAIL			DIVISION D26
			SECTION - DETAIL NO. 0593-002
DETAIL NOT TO SCALE			DATE: 02/06/2026



NOTES:

1. BACKING PLATE SHALL BE 6" LARGER IN ALL DIRECTIONS THAN THE BASE PLATE.
2. OMIT BACKING PLATES AND BRACKET LIGHT POLE TO TOP RAIL OF HANDRAIL WHEN INSTALLED DIRECTLY ABOVE SUPPORTING WALLS.
3. ALL HARDWARE SHALL BE STAINLESS STEEL.

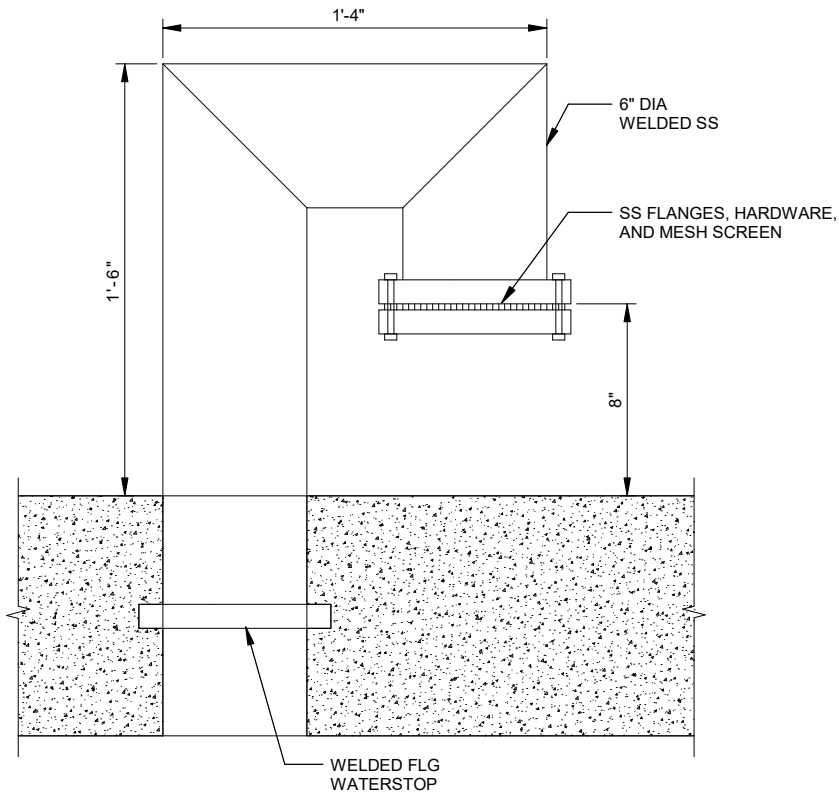


CITY OF MOORE
MOORE, OK
**MOORE WWTP
IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
LIGHT POLE MOUNTING ON ELEVATED SLAB DETAIL			DIVISION D26
			SECTION - DETAIL NO. 5600-007
			DATE: 02/06/2026

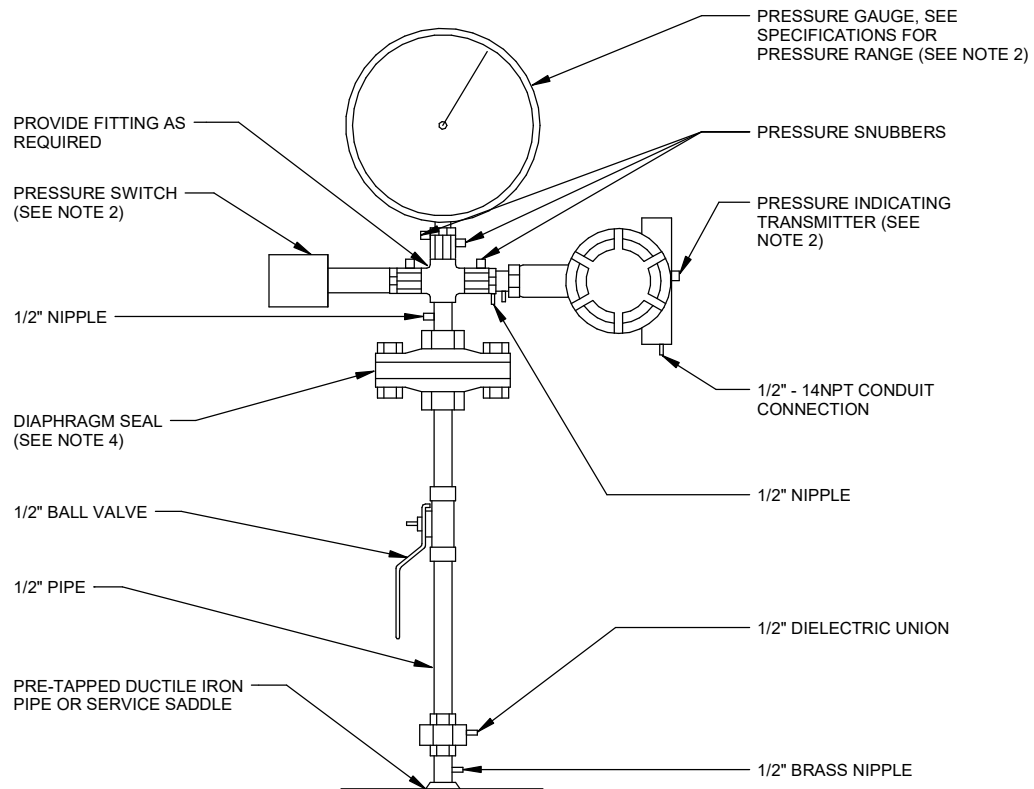


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MOORE, OK
MOORE WWTP
IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
STAINLESS STEEL VENT			DIVISION D33
			SECTION - DETAIL NO. 3923-001
			DATE: 02/06/2026



NOTES:

1. ALL PIPING SHOWN IS 316 STAINLESS STEEL TYPE K UNLESS OTHERWISE NOTED.
2. PLUG BRANCH OF TEE IF NO PRESSURE TRANSMITTER, SWITCH, OR PRESSURE GAUGE IS REQUIRED AT LOCATION.
3. INSTALL GAUGE, TRANSMITTER, AND SWITCH AS SHOWN ON PLANS.
4. PROVIDE DIAPHRAGM ONLY WHERE SHOWN ON PROCESS AND INSTRUMENTATION DIAGRAMS.



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**MOORE WWTP
IMPROVEMENTS**

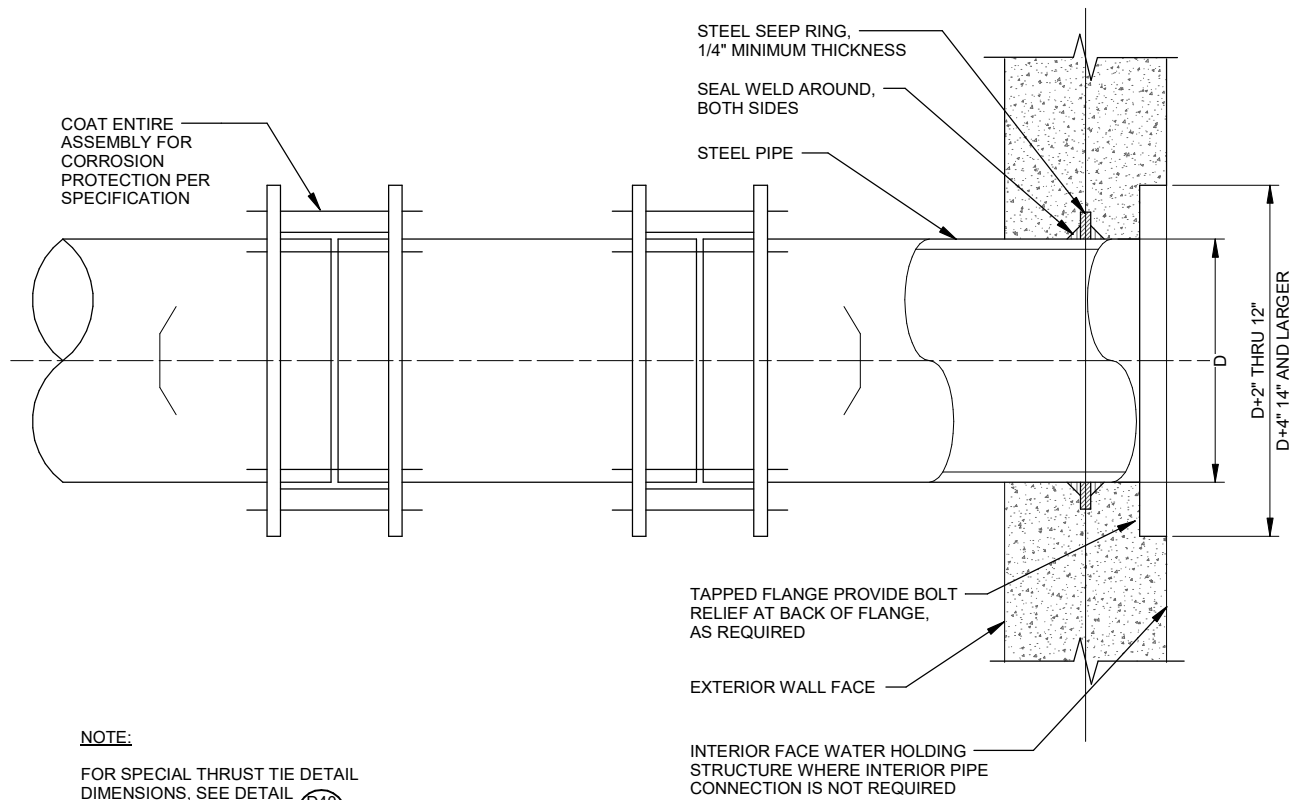
JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

**TYPICAL PRESSURE INDICATOR
INSTALLATION**

DIVISION
D40
SECTION - DETAIL NO.
0513-007

DATE: 02/06/2026



NOTE:

FOR SPECIAL THRUST TIE DETAIL
DIMENSIONS, SEE DETAIL

D40
2400-008

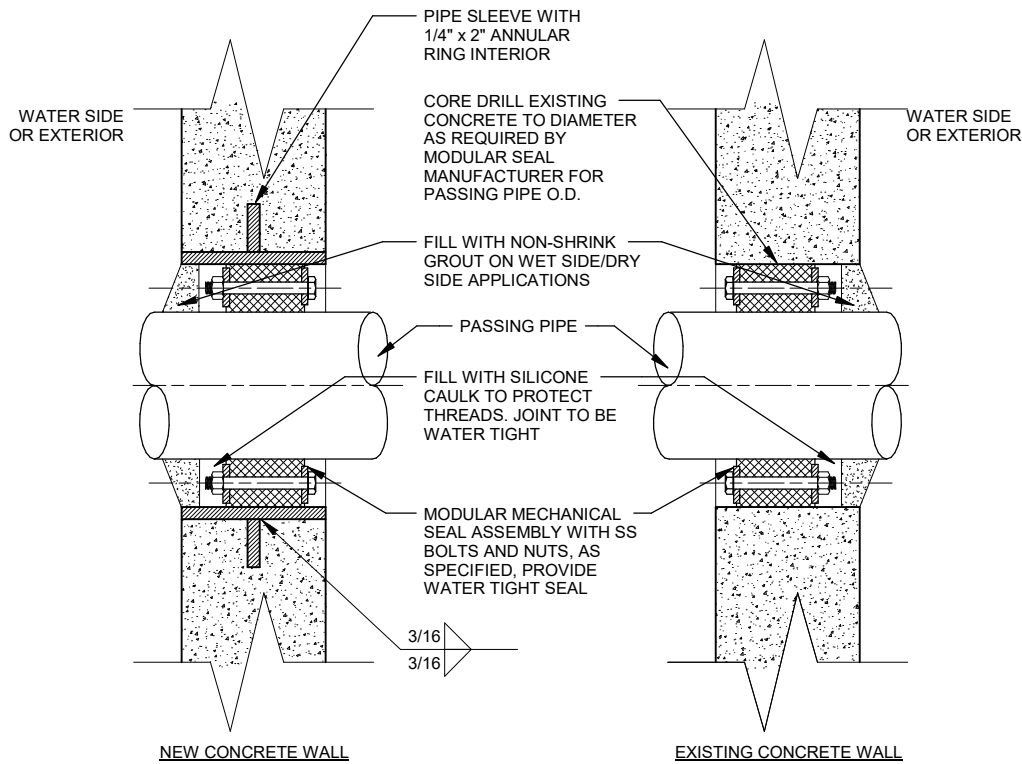


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MOORE, OK
**MOORE WWTP
IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
WELDED STEEL PIPE - BURIED EXTERIOR			DIVISION D40
			SECTION - DETAIL NO. 2339-002
			DATE: 02/06/2026



NOTES:

1. WHERE EXISTING CONCRETE STRUCTURE IS TO BE CORE DRILLED, THE CONTRACTOR SHALL ULTRASONIC TEST OR X-RAY THE AREA FOR EMBEDDED ITEMS BEFORE CORE DRILLING CAN PROCEED. IF EMBEDDED ITEMS ARE FOUND, NOTIFY THE ENGINEER IMMEDIATELY.
2. FOR NEW CONSTRUCTION, SLEEVES SHALL BE CAST INTO WALL. BLOCKOUTS AND SUBSEQUENT GROUTED IN SLEEVES WILL NOT BE PERMITTED UNLESS A KEYED WATERSTOP JOINT IS PROVIDED.
3. 6" DIAMETER SLEEVES AND SMALLER SHALL BE SCHEDULE 40 STEEL PIPE.
4. SLEEVES LARGER THAN 6" DIAMETER SHALL BE 1/4" THICK STEEL PIPE.
5. IN WALLS THICKER THAN 12", LINK SEAL SHALL BE INSTALLED AT BOTH ENDS OF THE WALL SLEEVE. SLEEVE DIAMETER SHALL BE PER LINK SEAL MANUFACTURER'S RECOMMENDATION.
6. SLEEVE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
7. FOR NEW CONCRETE STRUCTURE WHERE AN EXISTING PIPE WILL PENETRATE A NEW CONCRETE WALL, SLEEVES SHALL BE SPLIT WALL SLEEVES WELDED AROUND THE EXISTING PIPE AND POSITIONED IN THE FORM TO CENTER THE PIPE. SLEEVE DIAMETER AND THICKNESS SHALL BE PER MANUFACTURER'S RECOMMENDATION.

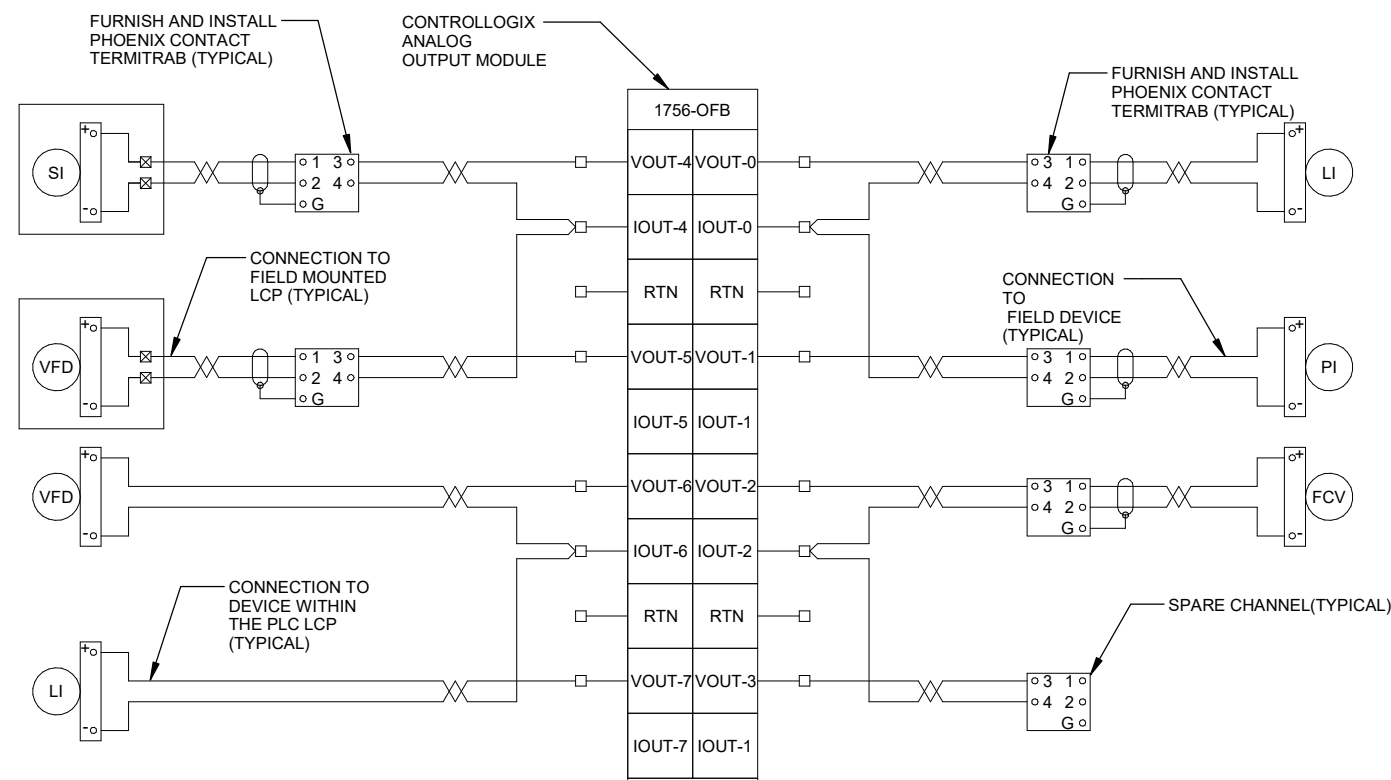
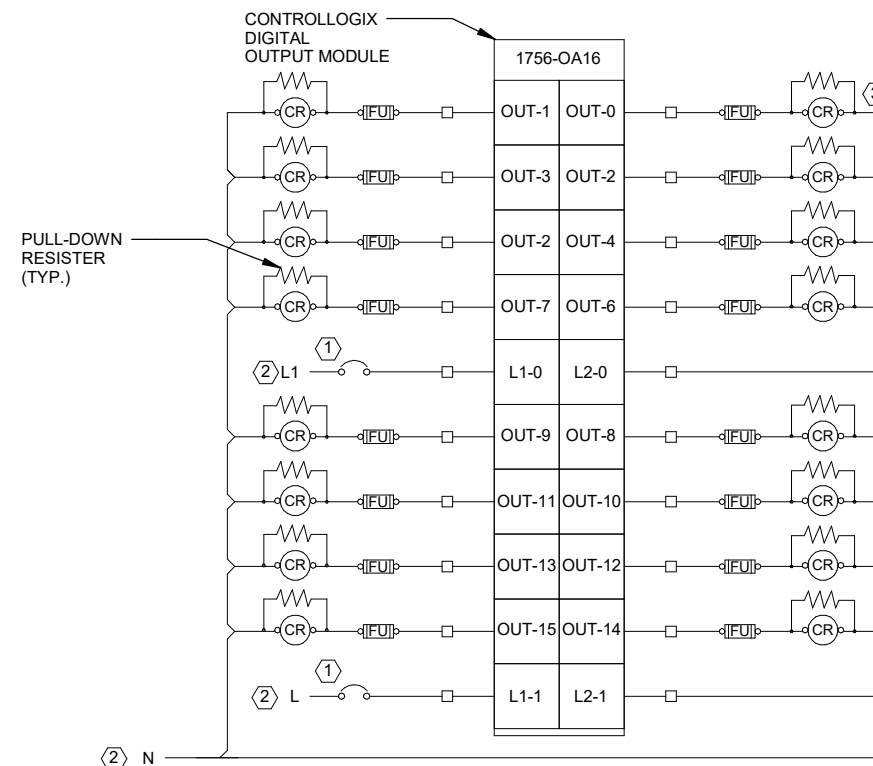
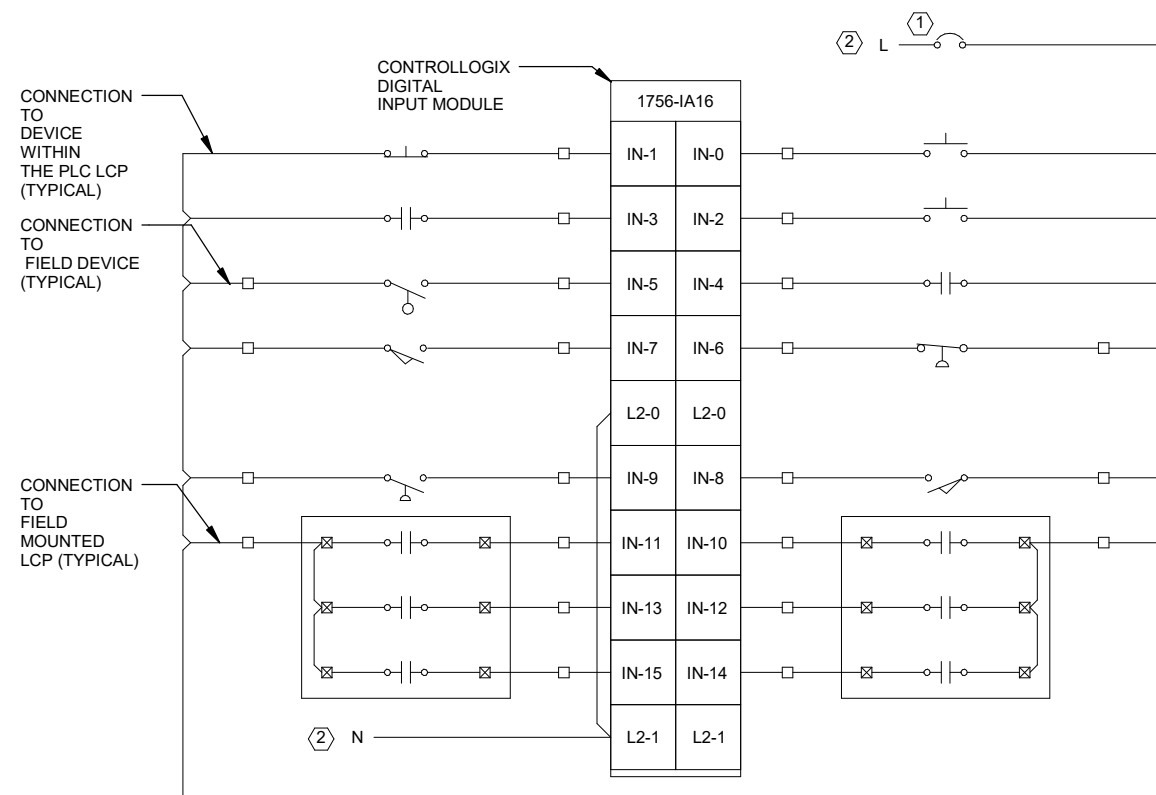


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**MOORE WWTP
IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
PIPE WALL PENETRATION SEAL			DIVISION D40
			SECTION - DETAIL NO. 2400-001
			DATE: 02/06/2026



LEGEND

- _____ PANEL WIRE
 _____ FIELD WIRE
 ☒ FIELD MOUNTED LCP TERMINAL BLOCK
 ☐ PLC LCP TERMINAL BLOCK
 ◦ COMPONENT TERMINAL
 NC NO CONNECTION
 ANALG ANALOG
 COM COM

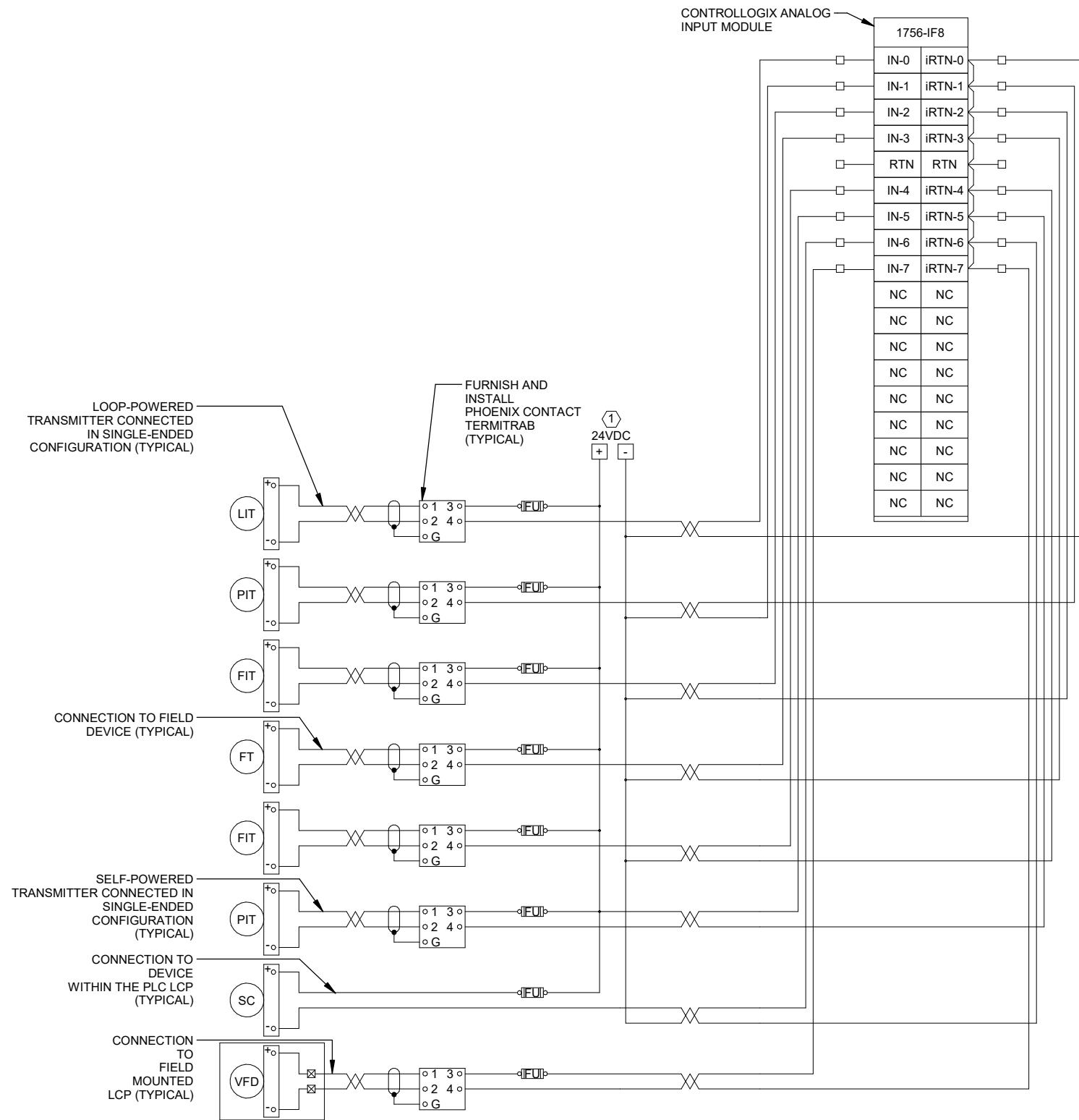
KEYED NOTES:

1. FURNISH AND INSTALL INDIVIDUAL BRANCH CIRCUIT BREAKER.
2. FURNISH AND INSTALL LINE AND NEUTRAL WIRING CONNECTIONS AS REQUIRED.
3. CONTRACTOR SHALL DETERMINE RESISTOR SIZE.

GENERAL NOTES:


1. MAKE ALL FINAL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE FUSED TERMINAL BLOCK, FUSE, AND INTERPOSING RELAY FOR EACH AVAILABLE PLC DIGITAL OUTPUT CHANNEL (INCLUDING SPARES).
3. FURNISH AND INSTALL TERMINALS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
4. DEVICES AND ASSOCIATED CONNECTIONS SHOWN IN THIS DIAGRAM ARE INTENDED TO BE A REPRESENTATION OF A TYPICAL INSTALLATION AND SHALL NOT BE CONSTRUED AS PLANNED DEVICES AND CONNECTIONS.
5. FURNISH AND INSTALL COMPONENTS, MATERIALS, AND ELECTRICAL CONNECTIONS REQUIRED TO INTERFACE NEW AND EXISTING EQUIPMENT PER THE PLANS.

REV	DATE	DESCRIPTION	BY
TYPICAL PLC I_O			DIVISION D40
			SECTION - DETAIL NO. 6343-001
			DATE: 02/06/2026



ANALOG INPUT MODULE WIRING DIAGRAM (TYPICAL)

REV		DATE	DESCRIPTION	BY
CITY OF MOORE		TYPICAL PLC I_O II		DIVISION
MOORE, OK				D40
MOORE WWTP IMPROVEMENTS				SECTION - DETAIL NO.
JOB NO.: 2202254/2501328/2500545				6343-002
				DATE: 02/06/2026



HANDRAIL MOUNT
SUN-SHIELD

INSTRUMENT SURGE
PROTECTION DEVICE. REFER
TO SPECIFICATIONS FOR
SURGE PROTECTION DEVICE
REQUIREMENTS.

STAINLESS STEEL
SUPPORT

(2-#14, #14GND) 3/4"C,
120VAC POWER (TYP) ①

(1-PAIR STP, 1-PAIR STP SPARE)
3/4"C, SIGNAL (TYP) ①

INSTRUMENT CONTROL
PANEL SUNSHIELD AS
REQUIRED. SEE DETAIL: **D26**
0529-013

ELECTRICAL INSTRUMENTATION
OR ENCLOSURE TYP. SEE SPECS
INSTRUMENTATION DETAILS.

CONDUIT WITH MANUFACTURER
SUPPLIED CONDUCTOR TO
TRANSDUCER

NOTE:

1. WALKWAY AND RAILING IS TYPICAL AND FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY WITH STRUCTURAL PLANS AND SECTIONS BEFORE INSTALLING ANY CONDUIT OR ELECTRICAL EQUIPMENT AND ADJUST ACCORDINGLY.
2. MAKE ALL REQUIRED CONNECTIONS.
3. SEE MANUFACTURER MOUNTING INSTRUCTIONS FOR ADDITIONAL DETAILS.
4. KEEP POWER FEED SEPARATE FROM 4-20mA SIGNAL FEED.

KEYED NOTES:

- ① CONDUIT AND CONDUCTORS SHOWN ARE TYPICAL. SEE ELECTRICAL PLAN SHEETS FOR CONDUIT AND CONDUCTOR REQUIREMENTS.

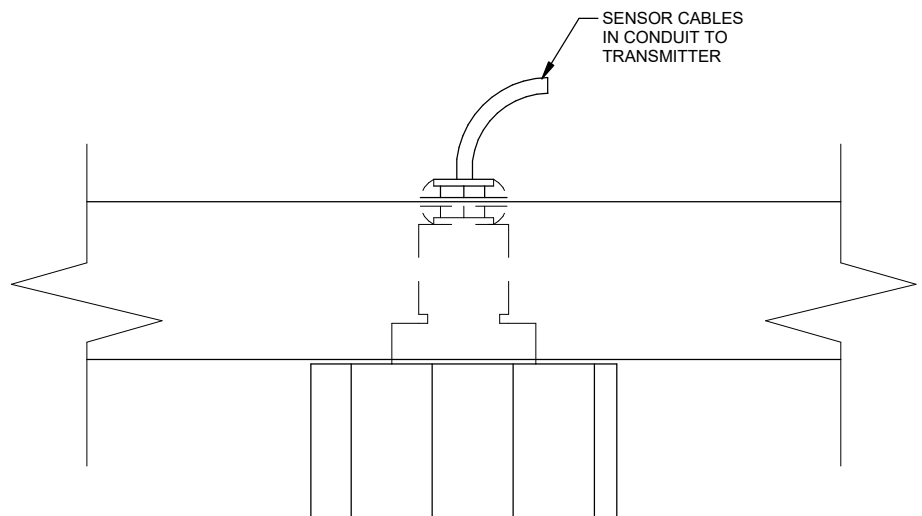
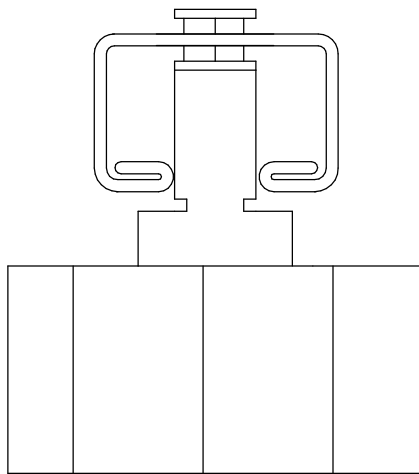
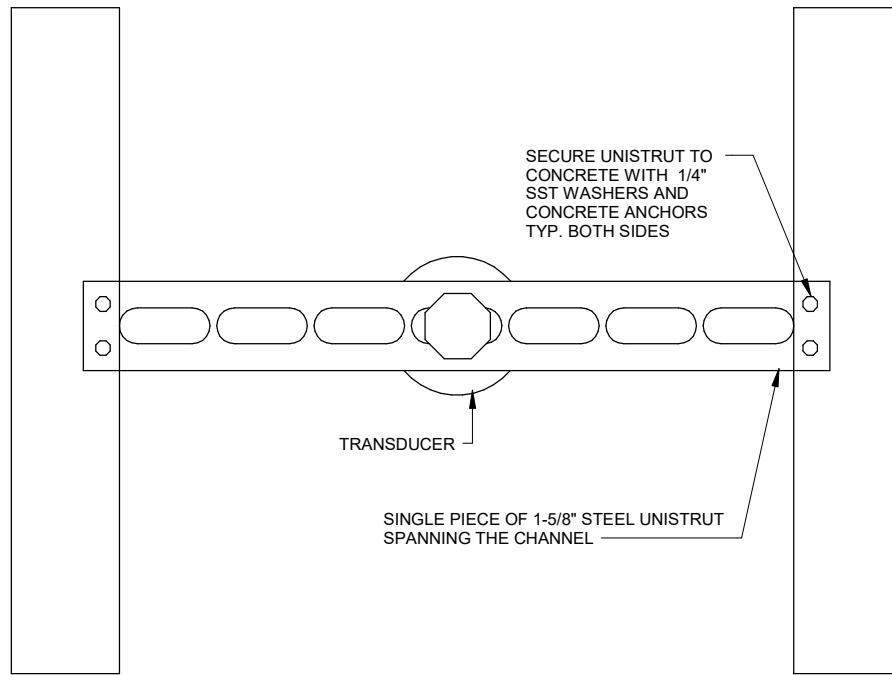


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IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
TYPICAL INSTRUMENT SURGE PROTECTION DETAIL			DIVISION D40
			SECTION - DETAIL NO. 7000-001
			DATE: 02/06/2026



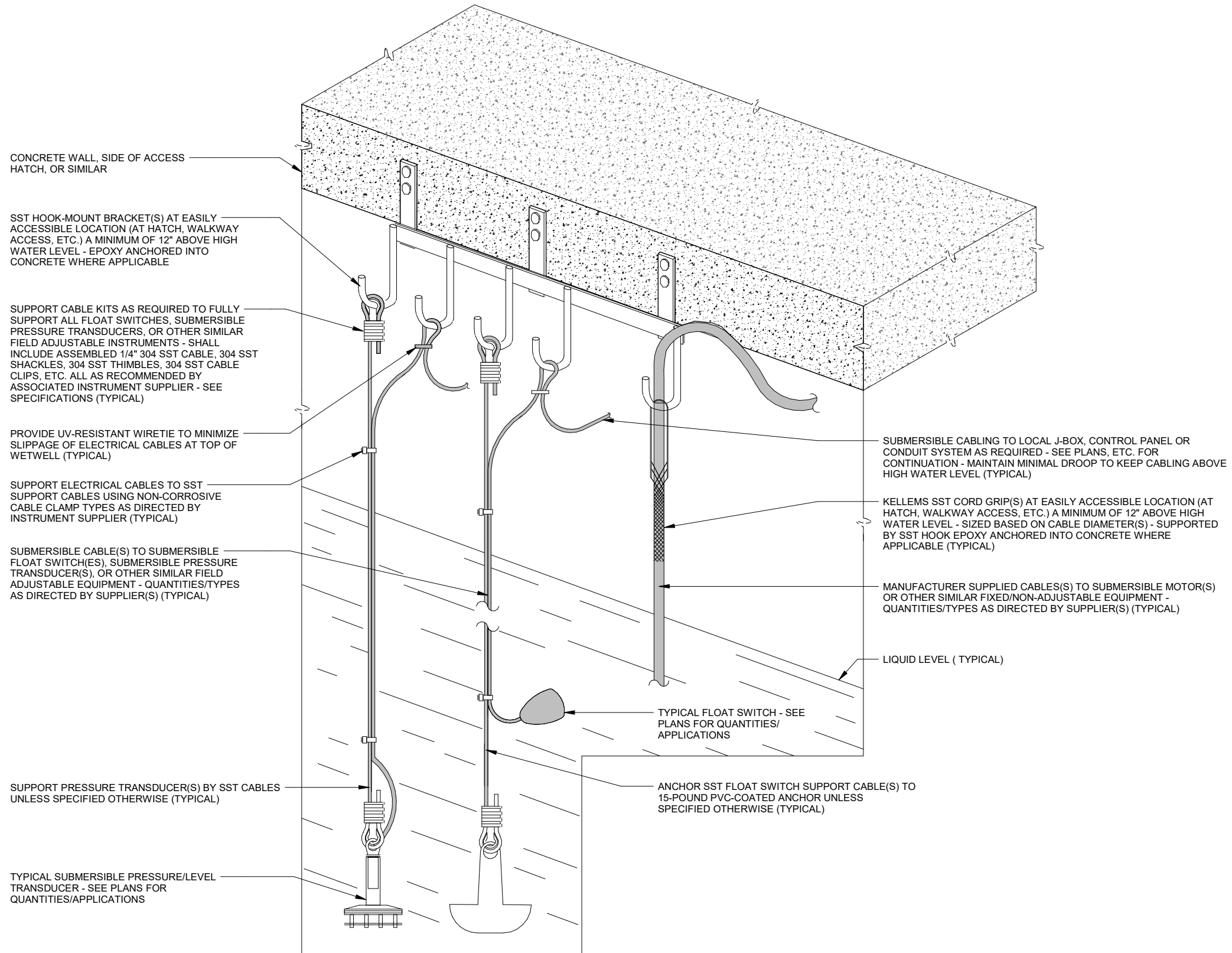
CITY OF MOORE
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**MOORE WWTP
 IMPROVEMENTS**

JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
		ULTRASONIC AND RADAR LEVEL ELEMENT CHANNEL MOUNTING DETAIL	

DIVISION D40
SECTION - DETAIL NO. 7213-001
DATE: 02/06/2026

DETAIL NOT TO SCALE



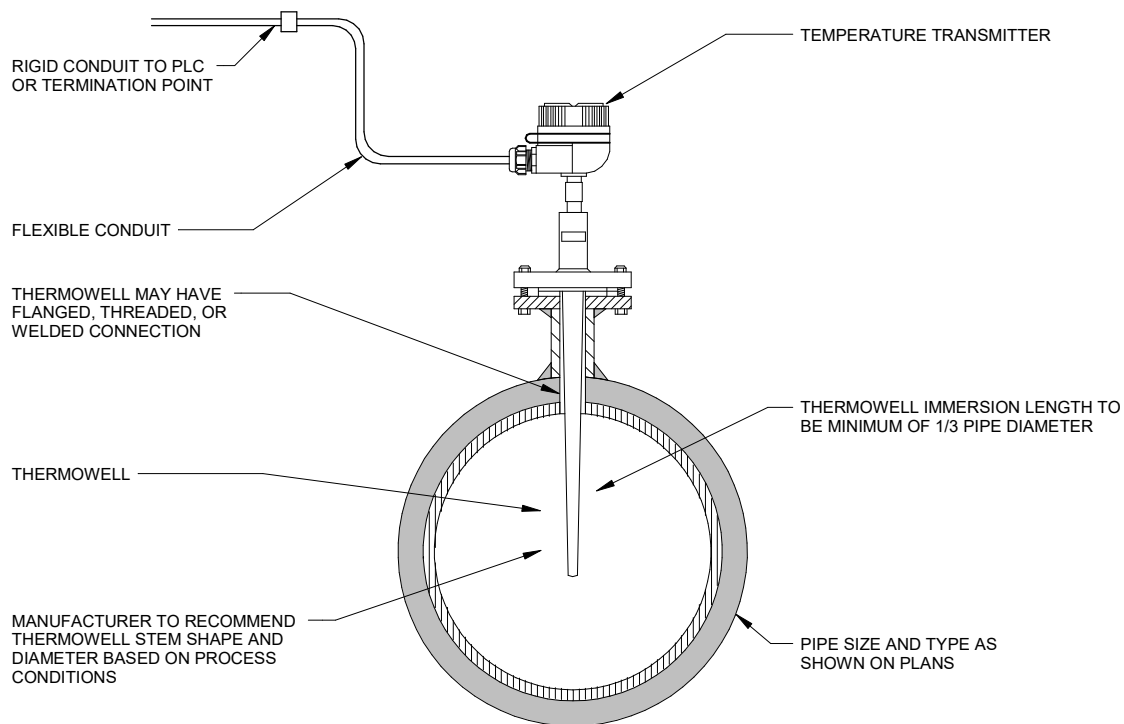
CITY OF MOORE
MOORE, OK

MOORE WWTP IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

REV	DATE	DESCRIPTION	BY
		DIVISION D40	
		SECTION - DETAIL NO. 7276-001	
		DATE: 02/06/2026	





NOTES:

1. MANUFACTURER TO RECOMMEND THERMOWELL MATERIAL OF CONSTRUCTION BASED ON TEMPERATURE, FLOW RATE, AND COMPATIBILITY WITH FLUID IT IS EXPOSED TO.
2. ALL THREADS SHALL BE SEALED WITH AN APPROVED THREAD SEALANT.
3. SEE SPECIFICATIONS FOR TRANSMITTER DETAILS/INFORMATION.



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IMPROVEMENTS

JOB NO.: 2202254/2501328/2500545

DETAIL NOT TO SCALE

REV	DATE	DESCRIPTION	BY
TEMPERATURE TRANSMITTER			DIVISION D40
			SECTION - DETAIL NO. 7463-001
			DATE: 02/06/2026