

**Mead
& Hunt**
Mead and Hunt, Inc.
4111 1st Avenue South
Suite 610
Seattle, WA 98104
phone: 888-364-7272
meadhunt.com

ATTENTION:
0 1/2 1
IF THIS BAR DOES NOT MEASURE
1" ON 22x34 SHEET or 1/2" ON
11x17 SHEET, THEN DRAWING IS
NOT TO SCALE

DATE: JANUARY 2024
PROJECT: 1622900-210084.01
SHEET:
43 OF 66



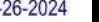
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1. ALL CONCRETE TO HAVE 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. ALL STEEL REINFORCING TO BE GRADE 60. TYPICAL REINFORCING SIZES AND LAYOUTS SHOWN SHALL BE VERIFIED OR MODIFIED BY INLET STRUCTURE DESIGN.
3. STRUCTURES TO BE DESIGNED TO SUPPORT AIRCRAFT LOADING UNLESS OTHERWISE NOTED. STRUCTURES REQUIRED TO BE AIRCRAFT-RATED SHALL SUPPORT 100,000-LB AIRCRAFT WHEEL LOADS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS STAMPED BY A REGISTERED WASHINGTON ENGINEER TO ENGINEER FOR APPROVAL.
4. CASTINGS SHALL BE DESIGNED TO SUPPORT AIRCRAFT LOADING UNLESS OTHERWISE NOTED. CASTINGS FOR AIRCRAFT-RATED STRUCTURES SHALL BE DESIGNED TO SUPPORT 100,000 LB WHEEL LOADS WITH 250 PSI TIRE PRESSURE.
5. FLEXIBLE CONNECTION TO STRUCTURES SHALL BE PROVIDED FOR PLASTIC PIPE CONNECTIONS. ALL OTHER PIPE CONNECTIONS TO STRUCTURES MAY USE GROUT AND MORTAR.
6. PRECAST CONCRETE STRUCTURES SHALL HAVE A BEDDING SURFACE CONSISTING OF A BED OF GRANULAR MATERIAL HAVING A THICKNESS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE STRUCTURE BASE. THE BEDDING SURFACE SHALL PROVIDE A FIRM FOUNDATION OF UNIFORM DENSITY FOR THE ENTIRE FOOTPRINT OF THE STRUCTURE. THE BEDDING SHALL BE BEDDING MATERIAL MEETING THE GRADATION REQUIREMENTS OF ITEM D-701.



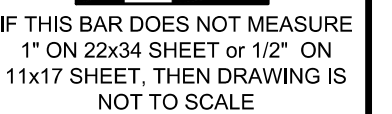
1 INTS



						BURDER SIZE	22"x34"
						REVISIONS	
						DESCRIPTION	
						DATE	
						07/14/2021	
	04					ISSUED FOR CONSTRUCTION	
						DESIGNED	
						AMIB	
						DRAWN	
						S8	
						CHECKED	
						KONISAS	
						APPROVED	
						TSG	

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PANGBORN MEMORIAL AIRPORT TERMINAL APRON RECONSTRUCTION DRAINAGE DETAILS



DATE:	JANUARY 2024
PROJECT:	1622900-210084.01

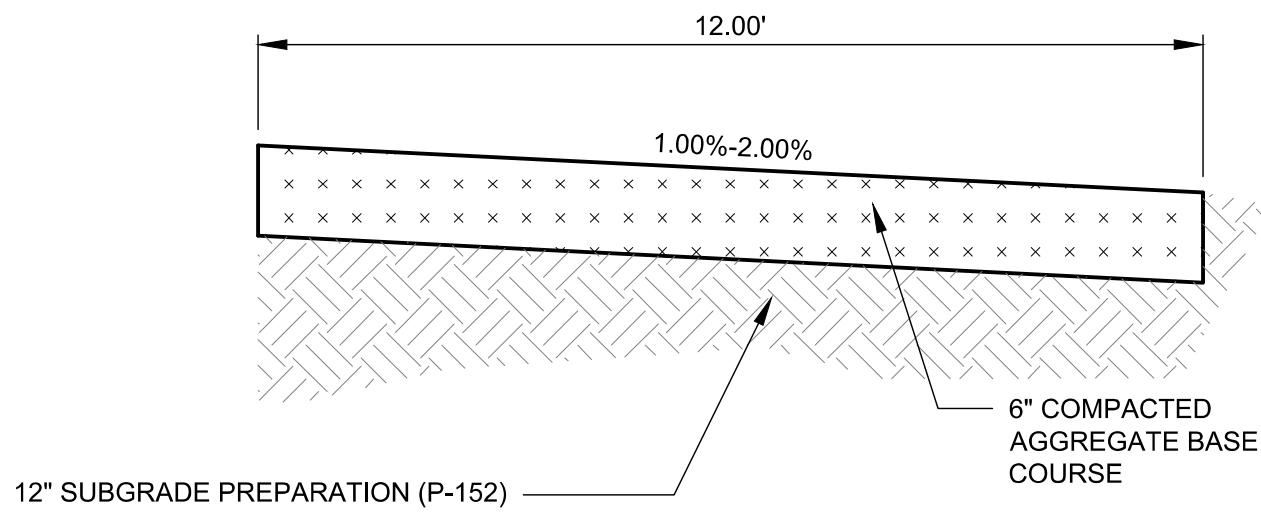
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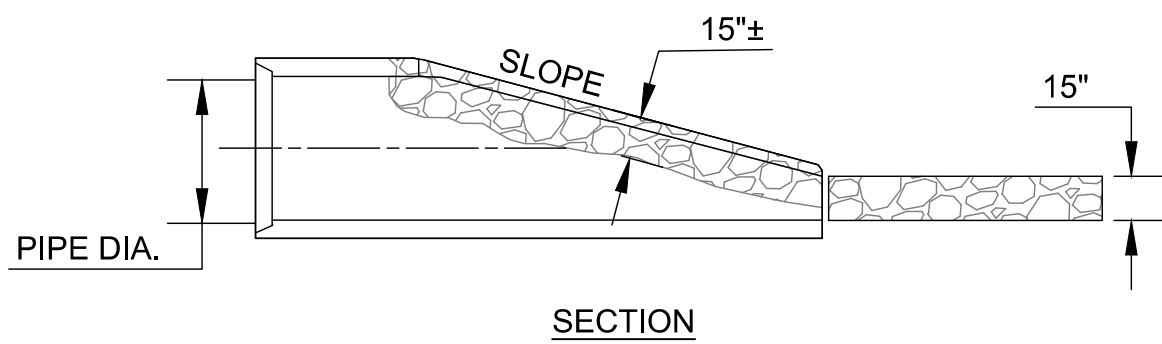
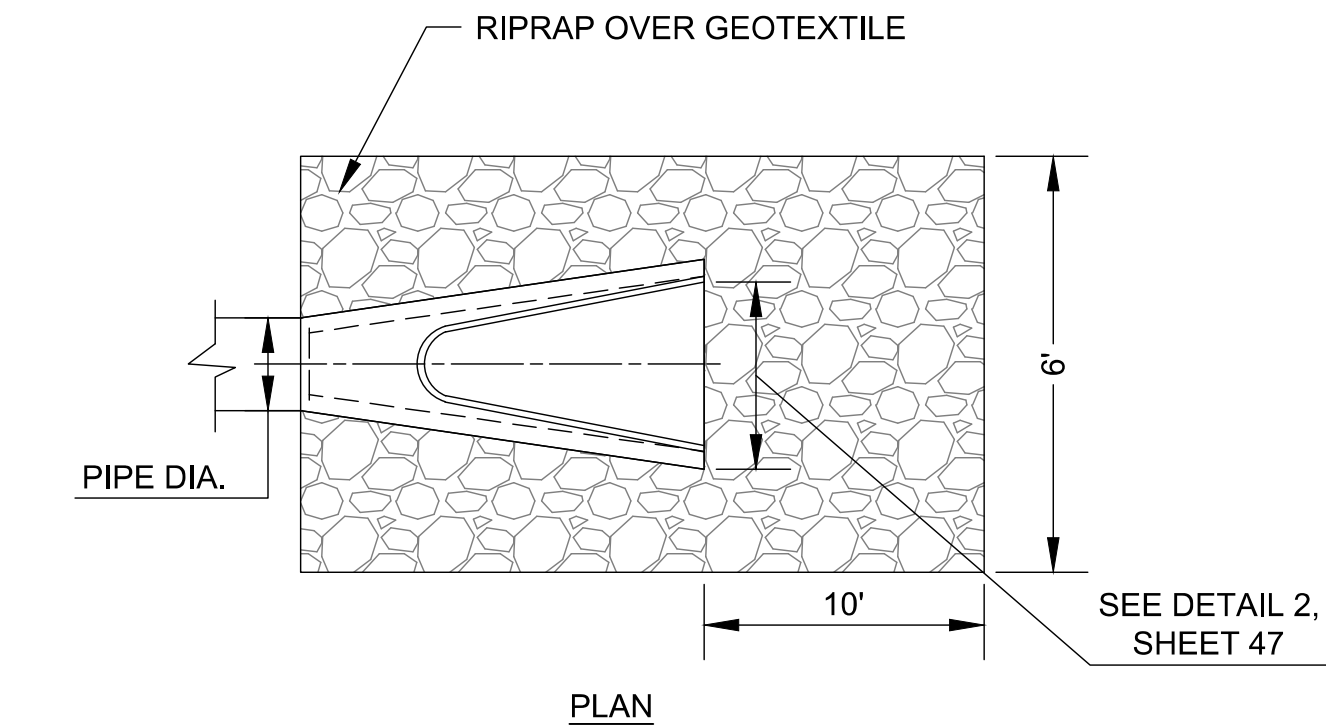
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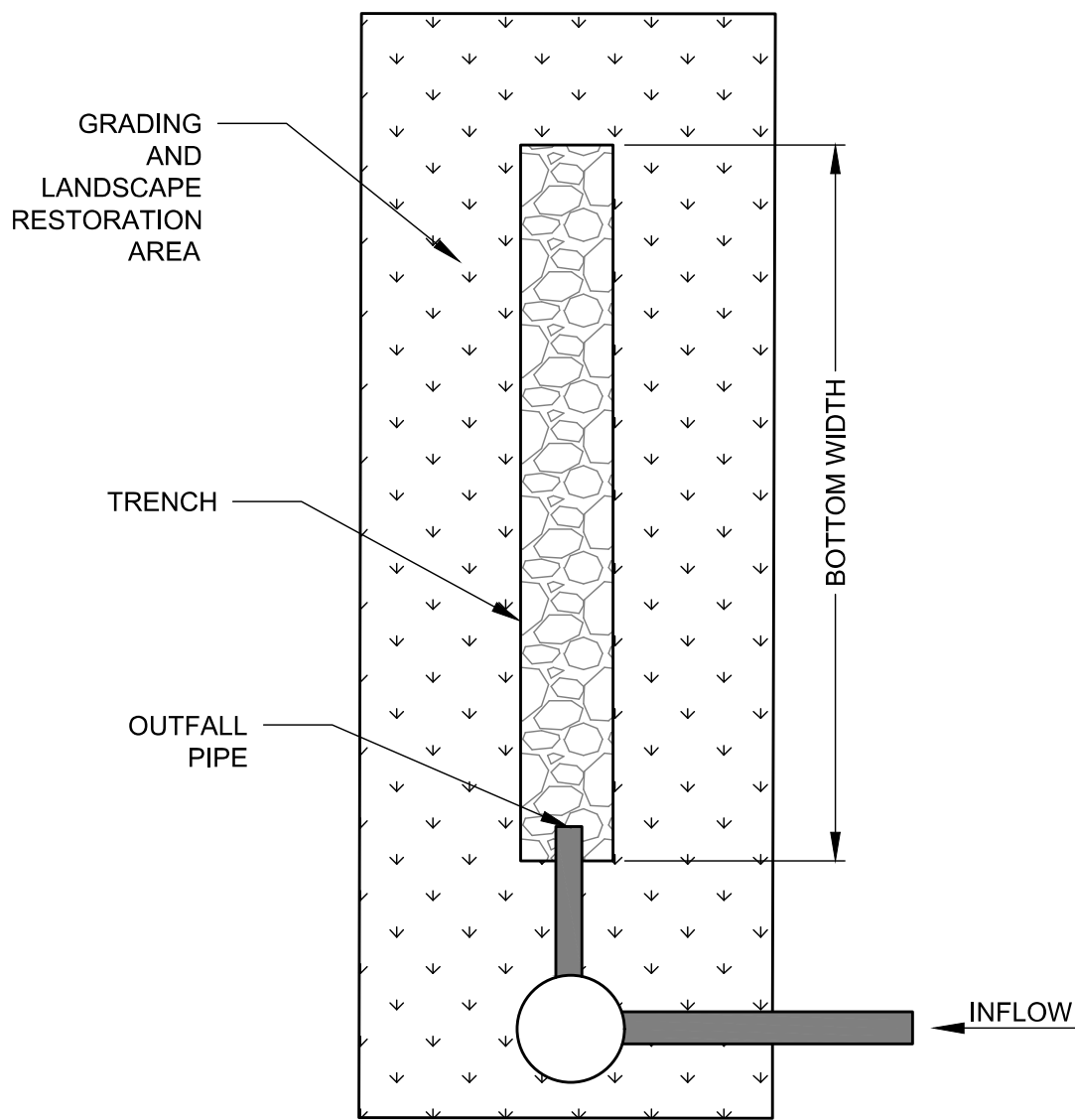
4 GRAVEL ACCESS ROAD

NTS

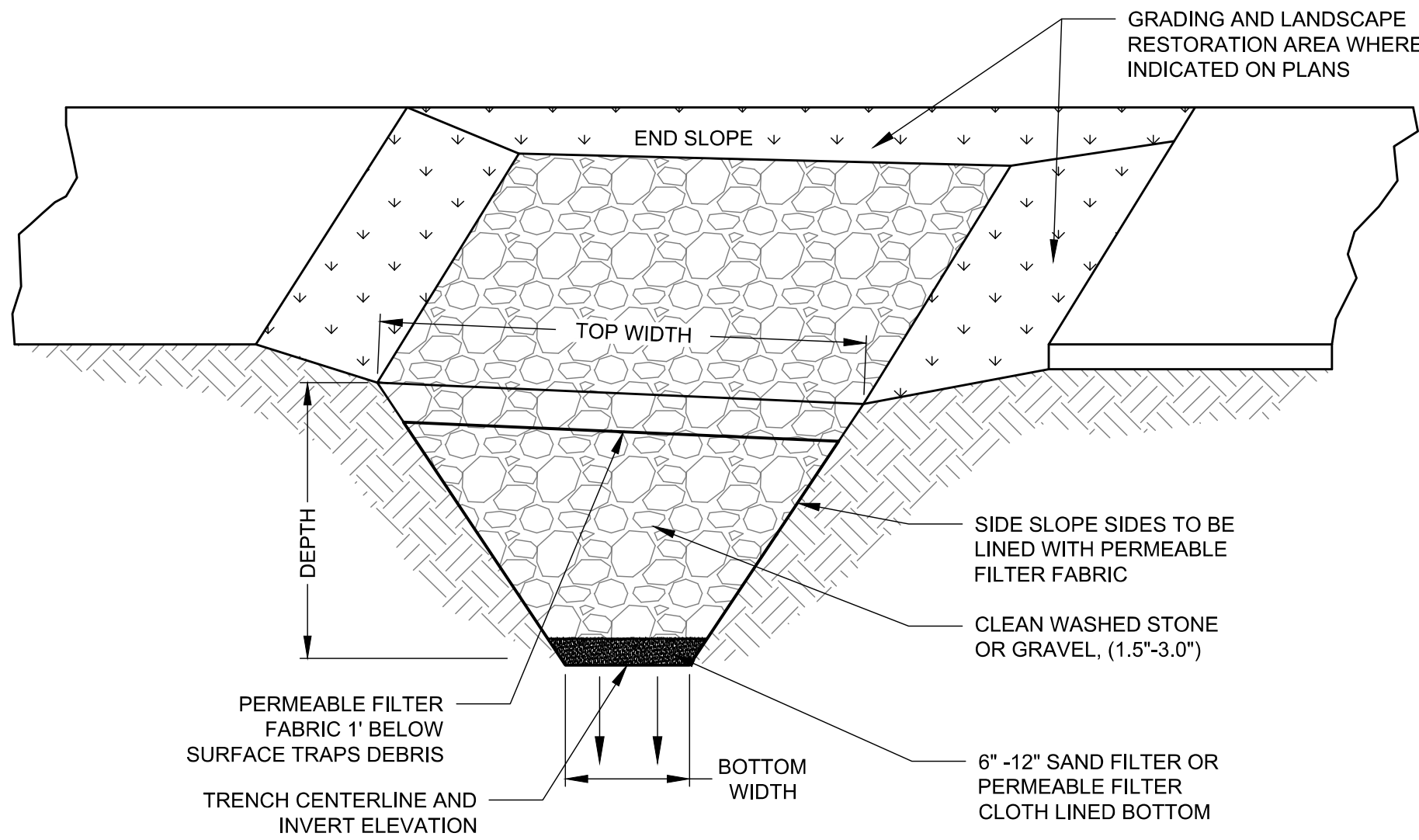


3 FLARED END WITH RIPRAP PROTECTION

NTS



TOP VIEW

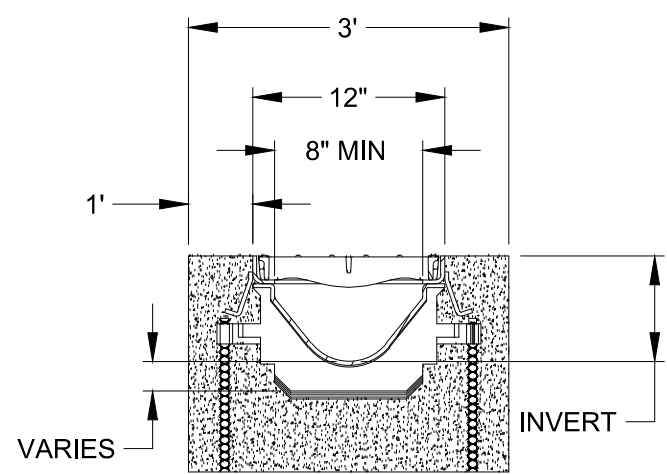


SIDE VIEW

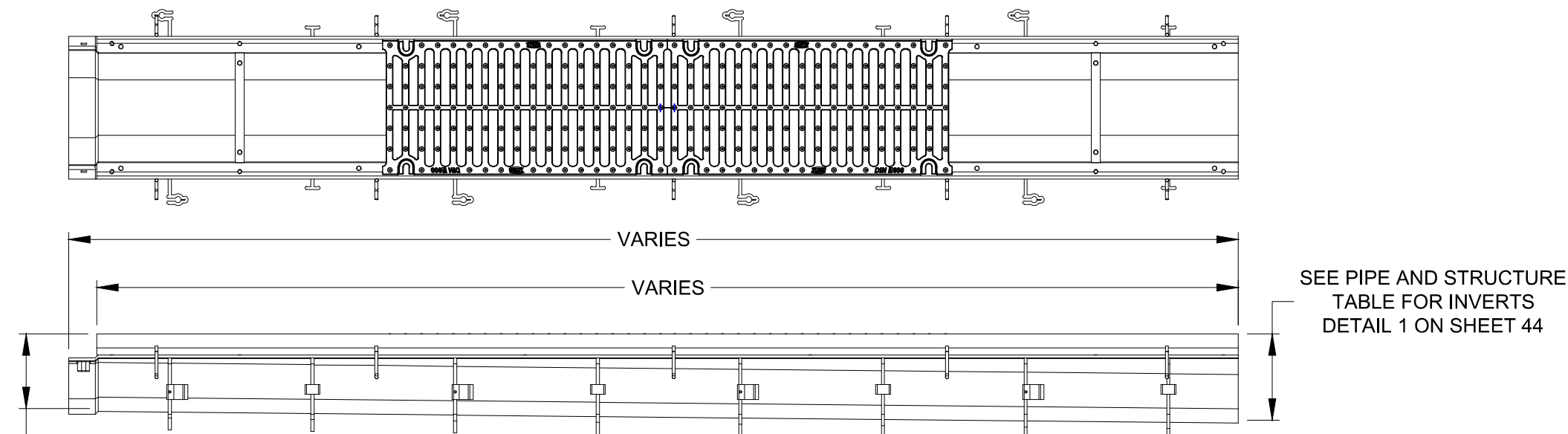
INFILTRATION TRENCH DIMENSIONS						
Infiltration Trench ID	Bottom Width	Bottom Length	Depth	Side Slope	End Slope	Top Width
1 - Trench	10'	120'	6'	1.5H:1V	0	28'
1 - Grading/Landscape	28'	120'	6.5'	SEE PLAN	SEE PLAN	90'
2A - Trench	2'	130'	3'	1.5H:1V	0	11'
2B - Trench	2'	59'	3'	1.5H:1V	0	11'
3A - Trench	4'	50'	3'	1.5H:1V	0	13'
3B - Trench	4'	34'	3'	1.5H:1V	0	13'
TRENCH CENTERLINE AND INVERTS						
Infiltration Trench ID	TRENCH START			TRENCH END		
	Centerline		Invert	Centerline		Invert
	Northing	Easting		Northing	Easting	
1 - Trench	148433.28	1794243.88	1210.40	148517.66	1794158.22	1210.40
1 - Grading/Landscape	148419.73	1794257.57	1216.40	148531.34	1794144.33	1216.40
2A	147843.49	1794720.33	1220.27	147936.11	1794811.55	1220.27
2B	147817.97	1794665.43	1221.30	147818.18	1794693.16	1221.30
3A	148160.39	1794195.25	1219.00	148125.30	1794230.87	1219.00
3B	147830.20	1794530.03	1221.00	147805.64	1794554.97	1221.00

2 INFILTRATION TRENCH

NTS



SEE PIPE AND STRUCTURE
TABLE FOR INVERTS
DETAIL 1 ON SHEET 44

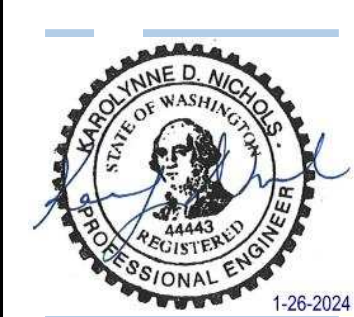
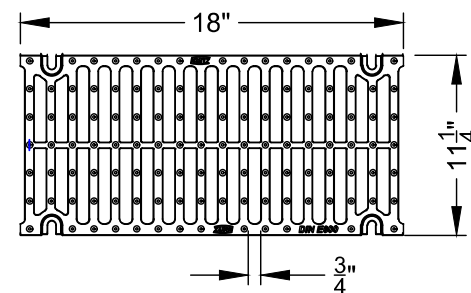


NOTES:

- JOINTS SHALL BE PLACED PER MANUFACTURER'S SPECIFICATIONS.
- TRENCH DRAIN AND GRATE SHALL BE DESIGNED TO SUPPORT 100,000 LB AIRCRAFT WHEEL LOADS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS STAMPED BY A REGISTERED WASHINGTON ENGINEER TO ENGINEER FOR APPROVAL. SHOP DRAWINGS SHALL INCLUDE REINFORCEMENT CALLOUTS FOR CONCRETE ENCASEMENT.
- TRENCH DRAIN SHALL BE A MODULAR DESIGN WITH TRENCH DRAIN CHANNEL.
- SEE DETAIL 4 ON SHEET 34 FOR IN-PAVEMENT DETAILS.

1 TRENCH DRAIN DETAIL

NOT TO SCALE



BORDER SIZE	22"x34"
DESIGNED	AMB
DRAWN	SOB
CHECKED	KON/SAS
APPROVED	TSG
DATE	07/14/2021
ISSUED FOR CONSTRUCTION	04
REVISSED PER RFI #4	05
NO.	05

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TERMINAL APRON RECONSTRUCTION
DRAINAGE DETAILS

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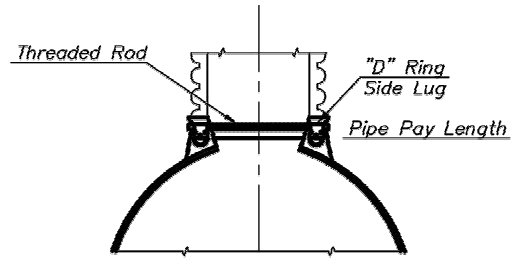
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END SECTIONS FOR HDPE PIPE									
Dia.	Gauge	Weight	* A	* H	* L	* W	Slope	Overall Width	
8"	18	14	5 3/4	4	14 1/2	16	2 1/4	27 1/2"	
10"	18	17	7 5/8	6	14 1/2	20	2 1/2	35 1/4"	
12"	16	25	7	6	21	24	2 1/2	36"	
15"	16	33	8	6	26	30	2 1/2	46"	
18"	16	42	8	6	31	36	2 1/2	52"	

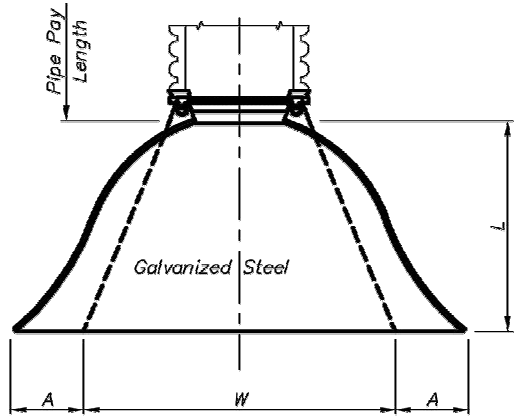
Toe plate extensions where specified, to be punched to match holes in apron lip. 3/8" bolts to be furnished. The length of toe plate to be as follows: W + 10" for 12" to 30" diameter pipes inclusive. W + 20" for 36" to 60" diameter pipes inclusive.

Multiple panel end sections shall have lap seams which are to be tightly jointed by bolts. Corner plate, and toe plate to be same gauge as end section.

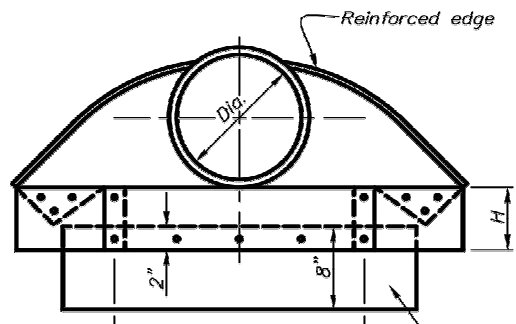
* - Dimensions in Inches Plus or Minus Standard Shop Tolerance.



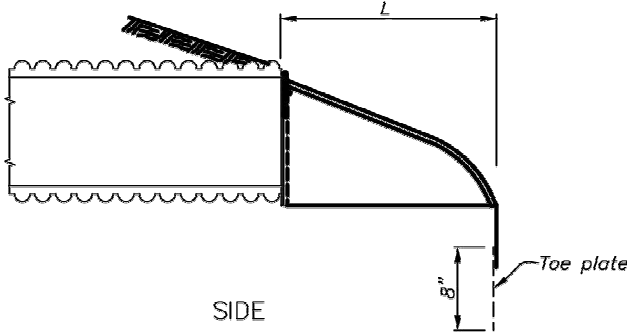
TYPE 2 CONNECTIONS
(12" & Larger)



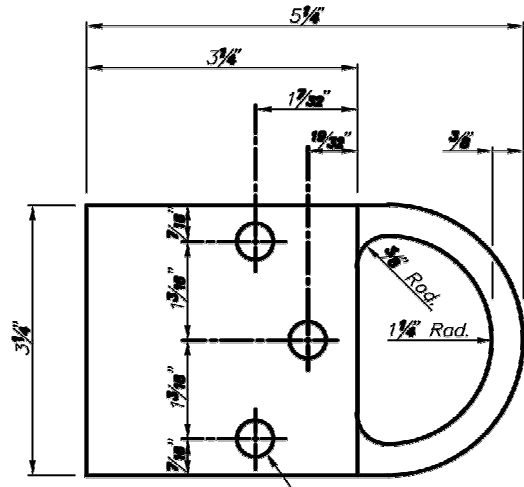
PLAN



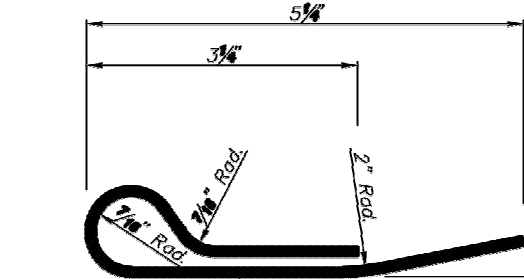
FRONT



SIDE



TOP VIEW

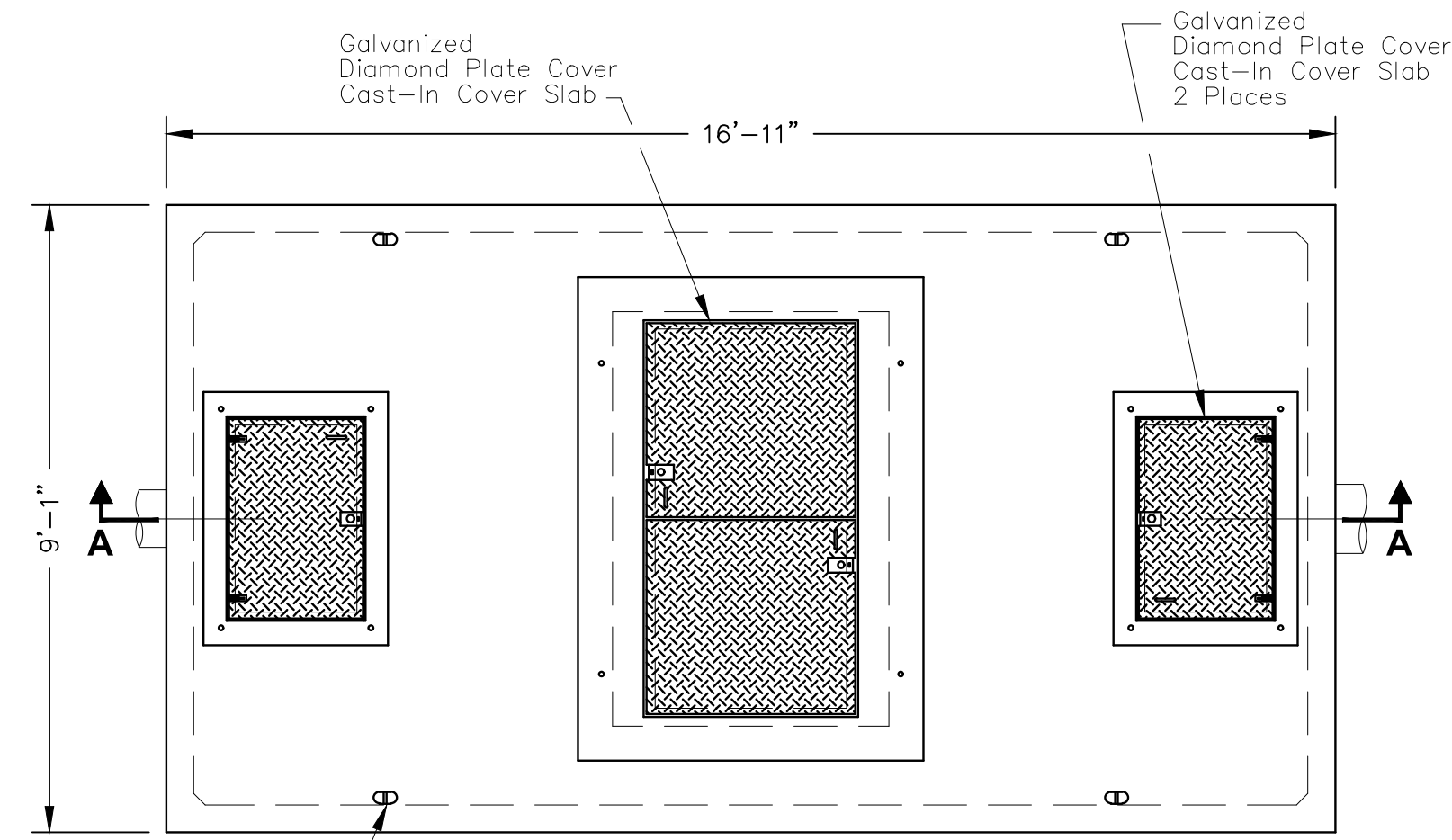


SIDE VIEW

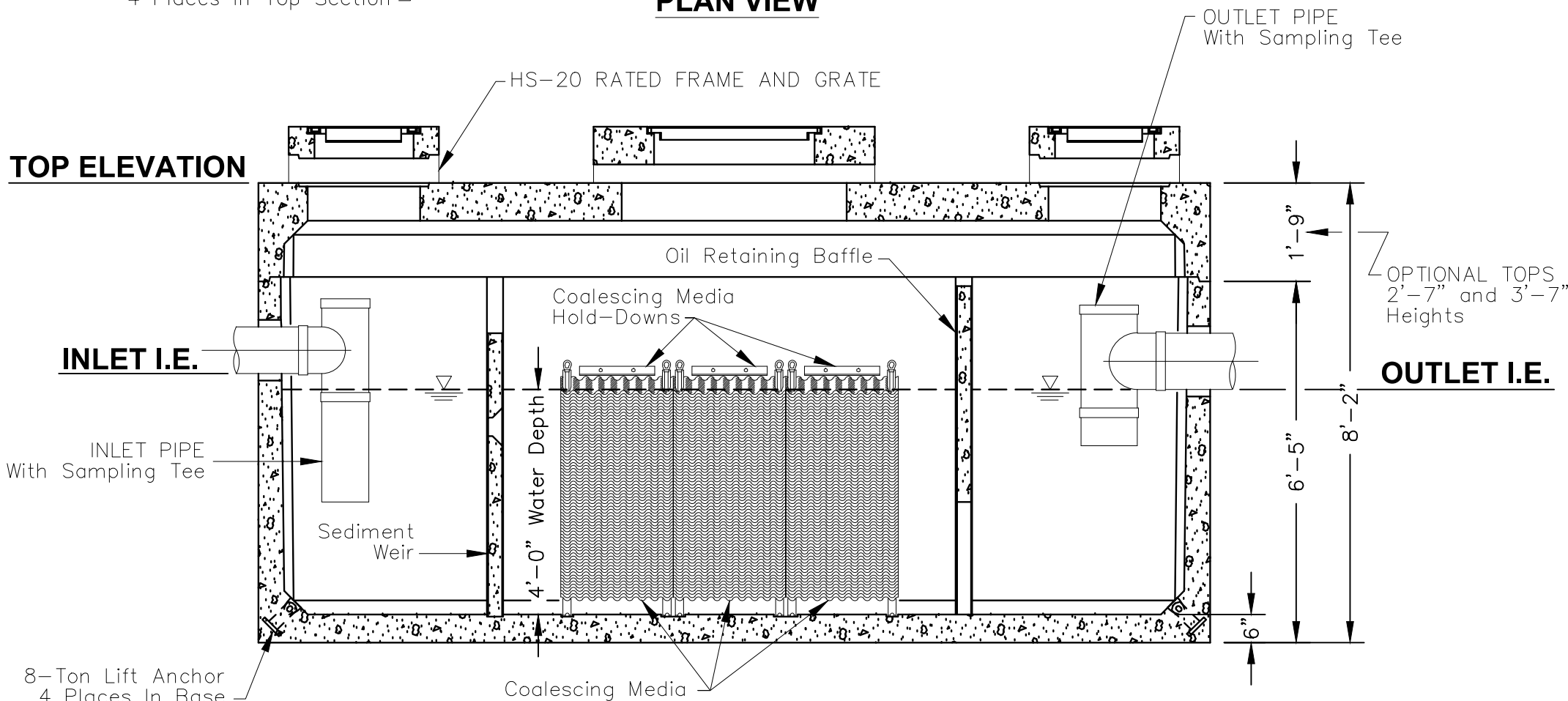
"D" RING SIDE LUG
TYPE 2 ATTACHMENT DETAILS

2 STANDARD END SECTION

NOT TO SCALE



PLAN VIEW



SECTION AA

STRUCTURAL NOTES:

- Concrete: 28 Day Compressive Strength f'_c = 7000 psi
- Rebar: ASTM A-615 Grade 60
- Mesh: ASTM A-185 Grade 65
- Design: ACI-318-05 Building Code
90C-857 "Minimum Structural Design Loading For Underground Precast Concrete Water and Wastewater Structures"
- Loads: Aircraft Rated Wheel w/ 30% Impact Per AASHTO

GENERAL NOTES:

- All Baffles and Weirs To Be Precast Concrete
- Static Water Depth = 4'-0"
- Contractor to:
Supply and Install All Piping & Sampling Tees
Grout In All Pipes
Fill With Clean Water Prior To "Start-Up" Of System
Verify All Blockout Sizes and Locations

INFORMATION NEEDED:

Top Of Separator Elevation: 1223.00
Inlet Pipe Size: 12"
Inlet Pipe Elevation: 1218.61
Outlet Pipe Size: 12"
Outlet Pipe Elevation: 1218.28

BASIC DESIGN INFORMATION:

INFLUENT CHARACTERISTICS:
Oil Specific Gravity: 0.88
Operating Temperature: 50°
Influent Oil Concentration: 100 ppm
Mean Oil Droplet Size: 130 Microns
0.033 ft/min Oil Rise Rate
Designed Per Washington State Department Of Ecology

FLOW RATE	EFFLUENT QUALITY	100% COLLECTED SIZE
877 GPM	10 ppm	60 Micron

1 COALESCING PLATE SEPARATOR

NOT TO SCALE



BORDER SIZE		22"x34"	
DESIGNED		AMB	
DRAWN		SOB	
CHECKED		KONASIS	
APPROVED		TSG	
NO.		04	
DATE		07/14/2021	
ISSUED FOR CONSTRUCTION			

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TERMINAL APRON RECONSTRUCTION
DRAINAGE DETAILS

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DATE: JANUARY 2024

PROJECT: 1622900-210084.01

SHEET:

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1. NEW BITUMINOUS PAVEMENT SHALL BE ALLOWED TO CURE FOR A MINIMUM OF 30 DAYS BEFORE GROOVING.
2. ANY DEVIATIONS THAT MAY BE NECESSARY SHALL BE COORDINATED WITH THE ENGINEER AT LEAST 14 DAYS PRIOR TO PLANNED DAY OF CONSTRUCTION. ANY DAMAGE CAUSED BY GROOVING EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COULD INCLUDE REMOVAL AND REPLACEMENT OF TOP MAT OF ASPHALT.
3. GROOVING OPERATIONS SHALL OCCUR PRIOR TO APPLICATION OF PERMANENT PAVEMENT MARKINGS.

NO SCALE



NO SCALE



1. CONTRACTOR TO COMPACT FILTER STRIP AREA AS REQUIRED IN SECTION P-152 EXCAVATION AND EMBANKMENT. COMPACT TOP 4" ENOUGH TO SUPPORT RUBBER TIRED EQUIPMENT, BUT DO NOT OVER COMPACT AND HINDER PLANT ESTABLISHMENT.
2. CONTRACTOR TO APPLY SEED, FERTILIZER, AND BONDED FIBER MATRIX MATERIAL ON FULL WIDTH OF VEGETATED FILTER STRIP. CONTRACTOR TO APPLY SEED AND FERTILIZER WITH MULCH AND TACKIFIER TO ALL OTHER DISTURBED AREAS. SEED MIX SHALL BE AS SPECIFIED IN THE SPECIFICATIONS (T-901).
3. CONTRACTOR TO CONSTRUCT A SMOOTH EVEN SURFACE THAT WILL MAINTAIN SHEET FLOW OF WATER INTO THE FILTER STRIP AT THE EDGE OF THE TAXIWAY SHOULDER OR ACCESS ROAD PAVEMENT. THIS SMOOTH AND EVEN SURFACE TO ACT AS FILTER STRIP LEVEL SPREADER. PROVIDE GROOVING IN PAVEMENT AS SPECIFIED TO PROVIDE A LEVEL SPREADER.
4. FILTER STRIP CONSTRUCTION WILL CORRESPOND WITH PAVEMENT CONSTRUCTION PHASING.
5. REMOVE AGGREGATE BASE COURSE ABOVE 45° ANGLE (PROJECTED DOWN AND AWAY FROM EDGE OF PAVEMENT) PRIOR TO PLACEMENT OF TOPSOIL.
6. CONTRACTOR SHALL STABILIZE ALL SOIL STOCKPILE AREAS.

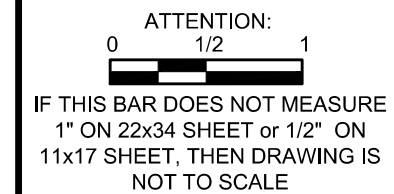
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NO.	REVISIONS		BORDER SIZE 22"x34" DESIGNED TSG
	DESCRIPTION	DATE	
04	ISSUED FOR CONSTRUCTION	07/14/2021	
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			CHECKED
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			APPROVED
			TSG

Mead and Hunt, Inc.

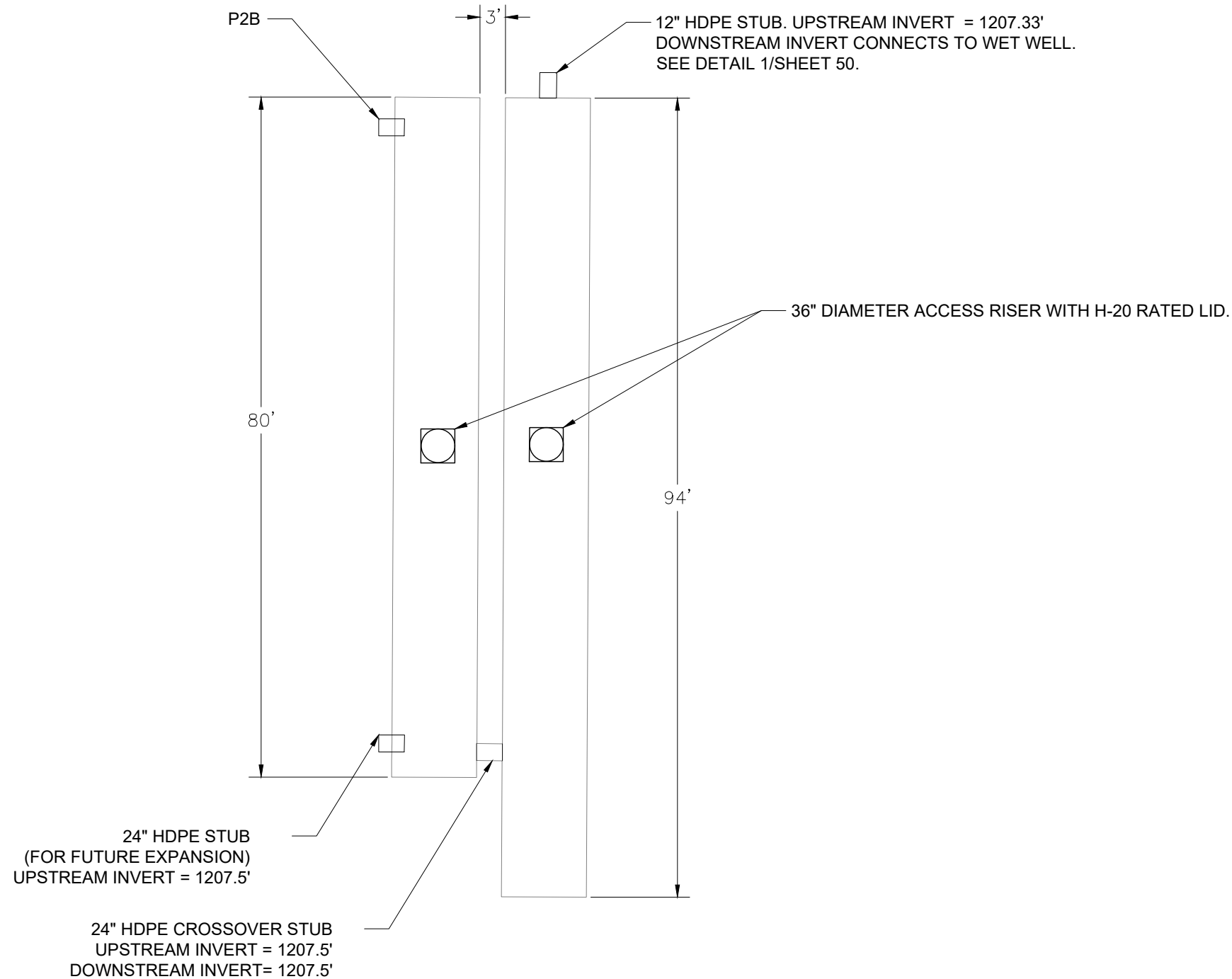
PANGBORN MEMORIAL AIRPORT TERMINAL APRON RECONSTRUCTION DRAINAGE DETAILS



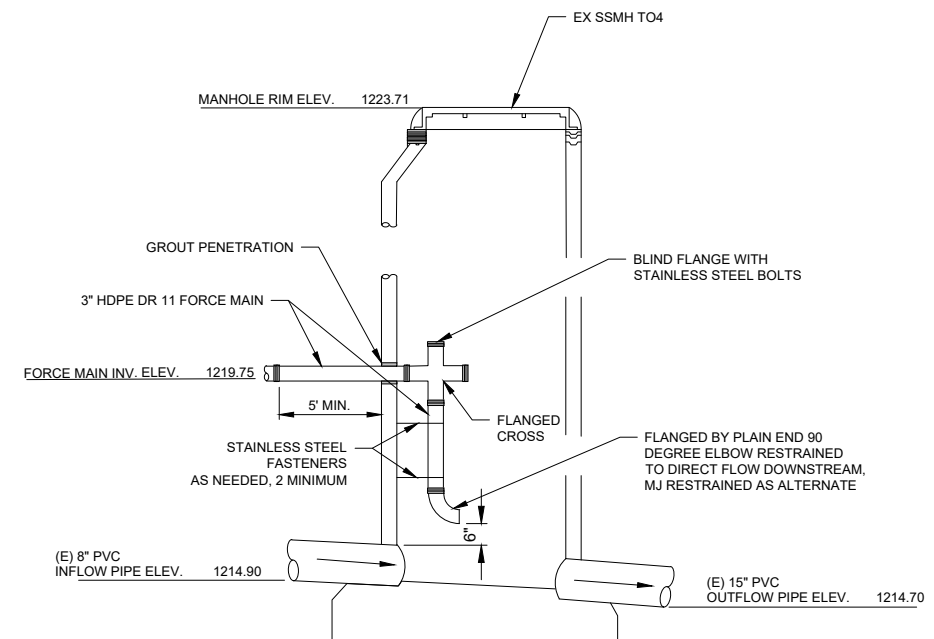
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2 10' DIAMETER HDPE GLYCOL STORAGE PIPES
NO SCALE



1 **FORCE MAIN TIE-IN DETAIL**
NOT TO SCALE

NOTE:

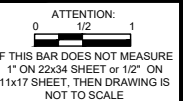
1. STAINLESS STEEL FASTENERS TO GRADE 310.
2. DISCHARGE OUTLET SHALL NEVER BE BELOW CROWN OF DOWNSTREAM PIPE



NO	ISSUED FOR CONSTRUCTION	DESCRIPTION	DATE	WORKING
04			07/14/2021	DESIGNED
				AMB
				DRAWN
				SDB
				CHECKED
				KONIGSAS
				APPROVED
				TSG

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PANGBORN MEMORIAL AIRPORT TERMINAL APRON RECONSTRUCTION GLYCOL TREATMENT DETAILS



DATE:	JANUARY 2024
PROJECT:	1622900-210084.01



BACKUP FLOAT SETTINGS			
FLOAT	ELEV	ACTION	NOTES
1	1206.16	ALL PUMPS OFF	ADJUST PER OWNER / MANUFACTURER
2	1218.11	HIGH LEVEL ALARM	

1

NOT TO SCALE

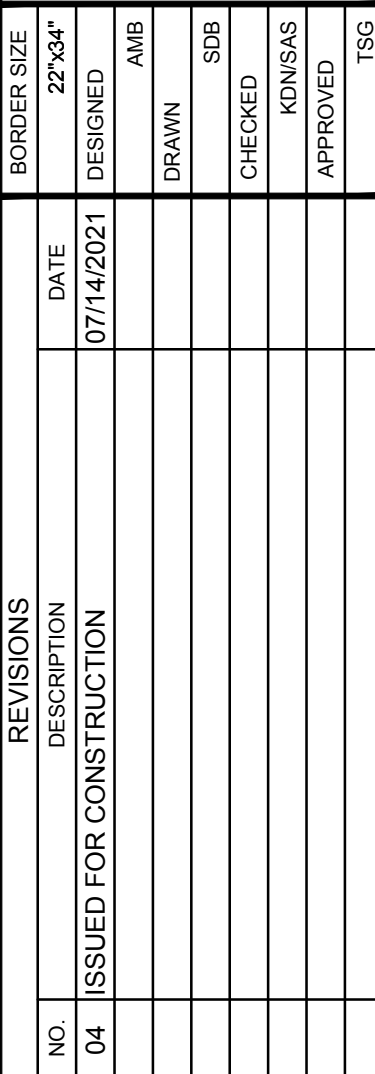
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EQUIPMENT KEY LIST

- 1 PROPOSED SUBMERSIBLE PUMPS (2)
FLYGT NP 3085 SH OR EQUAL, 4 POLE, 3-PHASE, 60 HZ, 460V, 20 GPM;
VFD AT 20 FT TDH, 2.2 HP, 1670 RPM
PUMP ASSEMBLIES TO INCLUDE (2) CAST IRON GUIDE BARS AND FLOAT
HANGERS, (1) GASKETS BETWEEN PUMP DISCHARGED AND BASE
ELBOW; ALL ATTACHMENT HARDWARE TO BE 316 S.S.
- 2 PROPOSED 88,600 GALLON PRECAST PANEL VAULT
- 3 TANK SPRING ASSISTED ACCESS HATCH
BILCO OR HALLIDAY PRODUCTS H-20 LOADING. COORDINATE ACCESS
HATCH LOCATION WITH PUMP MOUNTING LOCATIONS. MINIMUM CLEAR
OPENING 48"x48" TO PROVIDE CLEARANCE ON ALL SIDES OF PUMP
FOR REMOVAL. ALL HARDWARE TO BE 316 S.S. CONTRACTOR TO
COORDINATE SIZE OF HATCH WITH SIZE OF RISER
- 4 3" HDPE DR 11
- 5 PRECAST VALVE VAULT. 4'X6' MINIMUM INTERIOR DIMENSION. FIELD
INSTALL CONCRETE PIPE SUPPORTS
- 6 VALVE VAULT SPRING ASSISTED ACCESS HATCH BILCO OR HALLIDAY
PROD OR EQUAL. H-20 LOADING 36"x36" MIN. CONTRACTOR TO VERIFY
HATCH SIZE IS ADEQUATE. TO PROVIDE UNOBSTRUCTED ACCESS TO
ALL VALVES (SEE NOTE 2)
- 7 3" MAG METER; 4-20mA SIGNAL. TIED TO HISTORIAN AND MANUAL
DISPLAY LOCATED IN ADJACENT SAMPLING SHELTER.
- 8 3" HDPE DR11 PIPE WITH WELDED FLANGES AND 316SS HARDWARE
- 9 3" FL HDPE 90° BEND (TYP. OF 2)
- 10 GROUT SEAL AROUND PIPES WITH H₂S RESISTANT NON-SHRINK
GROUT
- 11 3" FL TEE, DIP EPOXY LINED
- 12 0.40 PSI GLYCERIN FILLED PRESSURE GAUGE IN TAPPED FLANGED
CROSS BOSS WITH BRASS GATE VALVE
- 13 3" FL. 90° BEND. DIP EPOXY LINED
- 14 3" FL. CUSHIONED CHECK VALVE W/ SWING ARM. (TYP. OF 2)
- 15 3" FL. RESILIENT WEDGE GATE VALVE (TYP. OF 2)
- 16 LEVEL TRANSDUCER FOR PRIMARY PUMP CONTROL - ABS HSC2 OR
EQUAL
- 17 ACCESS LADDER
- 18 ANCHOR BASE ELBOW TO WET WELL FLOOR. INSTALL 1/2" 316
STAINLESS STEEL PLATE WITH 3/4" STAINLESS STEEL ALL THREAD TO
ANCHOR BASE ELBOWS TO ONE (1) BASE PLATE. BASE PLATE TO BE
ANCHORED TO WETWELL WITH MIN. FOUR (4) 3/4" ALL THREAD WITH
EPOXY ANCHORS (MIN. 4" EMBEDDED) IN CONCRETE FLOOR
- 19 RISER SUPPORT BRACKET; EVERY 3 FEET
- 20 2" SCH80 PVC VALVE VAULT DRAIN WITH TRAP
- 21 4" SCH80 PVC WET WELL VENT WITH 316 S.S. INSECT SCREEN. 6" PIPE
SLEEVE TO BE CAST INTO WETWELL TOP. PIPE AND FITTINGS DRY-FIT,
NOT GLUED
- 22 LEVEL TRANSDUCER STILLING WELL 6" PVC WITH 1/2" HOLES AS
SHOWN. SUPPORT BRACKETS 316SS
- 23 48"x48" CONCRETE RISER, HS-20 RATED
- 24 (2) 2" ELECTRICAL CONDUIT FROM VALVE/METERING VAULT, TO
FIBERGLASS SHELTER FOR MONITORING CONTROL WIRES
- 25 1/2" TAP WITH BALL VALVE FOR AUTOSAMPLER TUBING CONNECTION
- 26 (2) 2" ELECTRICAL CONDUIT FOR LIFT STATION POWER AND CONTROLS
TO ADJACENT MCC PANEL

LIFT STATION NOTES:

1. PROVIDE HASP TYPE LOCKING MECHANISM ON ALL ACCESS HATCHES.
2. PUMPS TO BE FURNISHED WITH HIGH PRESSURE DISCHARGE COUPLING, STAINLESS STEEL SUDSRAIL SYSTEM, SEAL FAILURE AND THERMAL OVERLOAD INDICATORS.
3. ALL HARDWARE INSIDE WETWELL TO BE 316 STAINLESS STEEL.
4. MAXIMUM FLOW OF 20 GPM TO DOUGLAS COUNTY SEWER DISTRICT. ONLY ONE PUMP SHALL RUN AT A TIME. FLOWRATE AND DURATION OF DISCHARGE WILL DEPEND ON BOD CONCENTRATION AND PERMITTED DISCHARGE LOAD.
5. ALL JOINTS IN PANEL VAULT TO BE SEALED WITH HYDROPHILIC GROUT; CONSOLE OR EQUAL.
6. AUTOSAMPLER TO ENGAGE WHEN LIFT STATION PUMP IS RUNNING, PULLING ONE ALIQUOT PER HOUR WHILE PUMP IS RUNNING;




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PANGBORN MEMORIAL AIRPORT TERMINAL APRON RECONSTRUCTION LIFT STATION AND TANK DETAILS

ATTENTION:

0 1/2 1

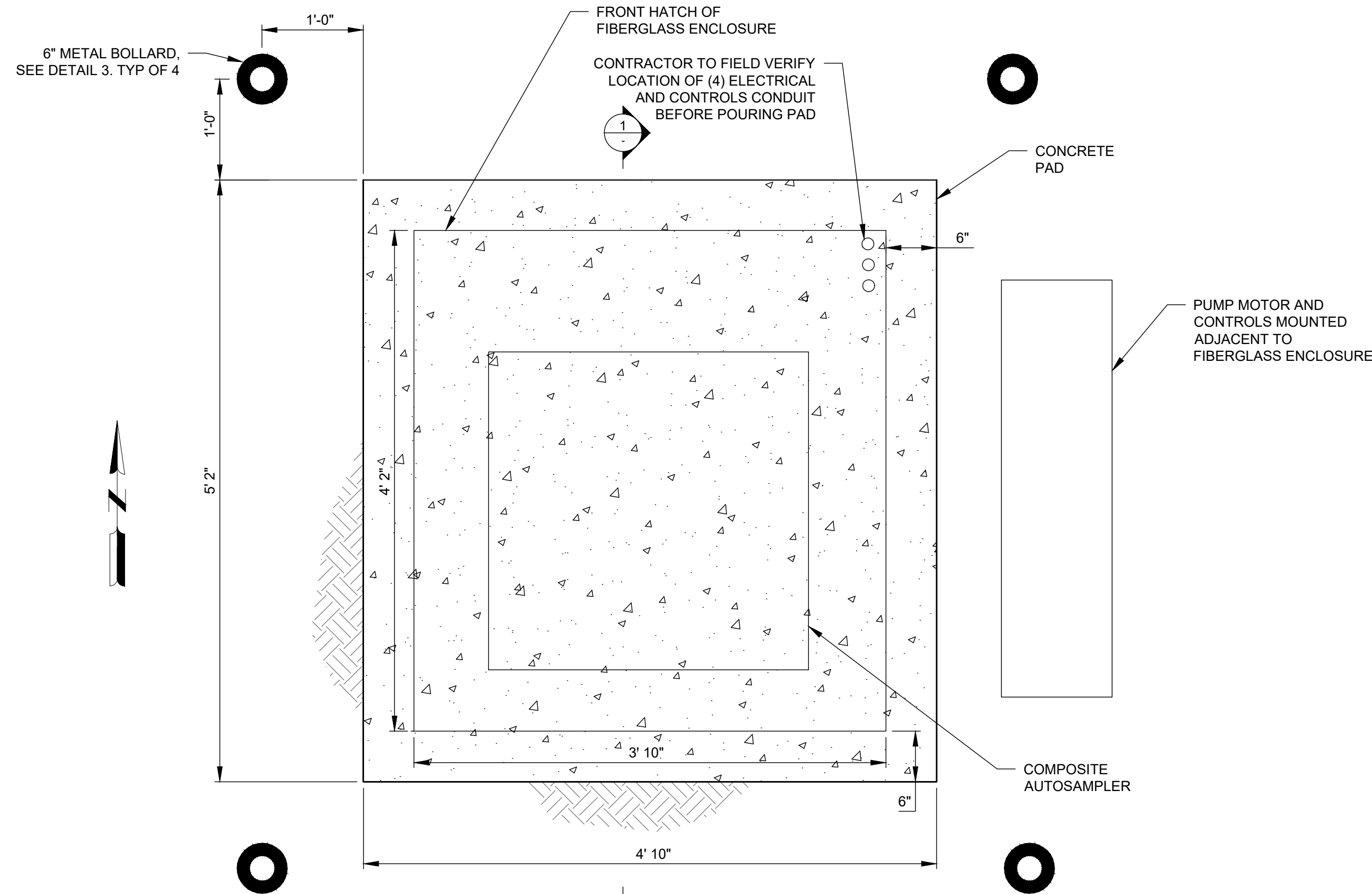


IF THIS BAR DOES NOT MEASURE
1" ON 22x34 SHEET or 1/2" ON
11x17 SHEET, THEN DRAWING IS
NOT TO SCALE

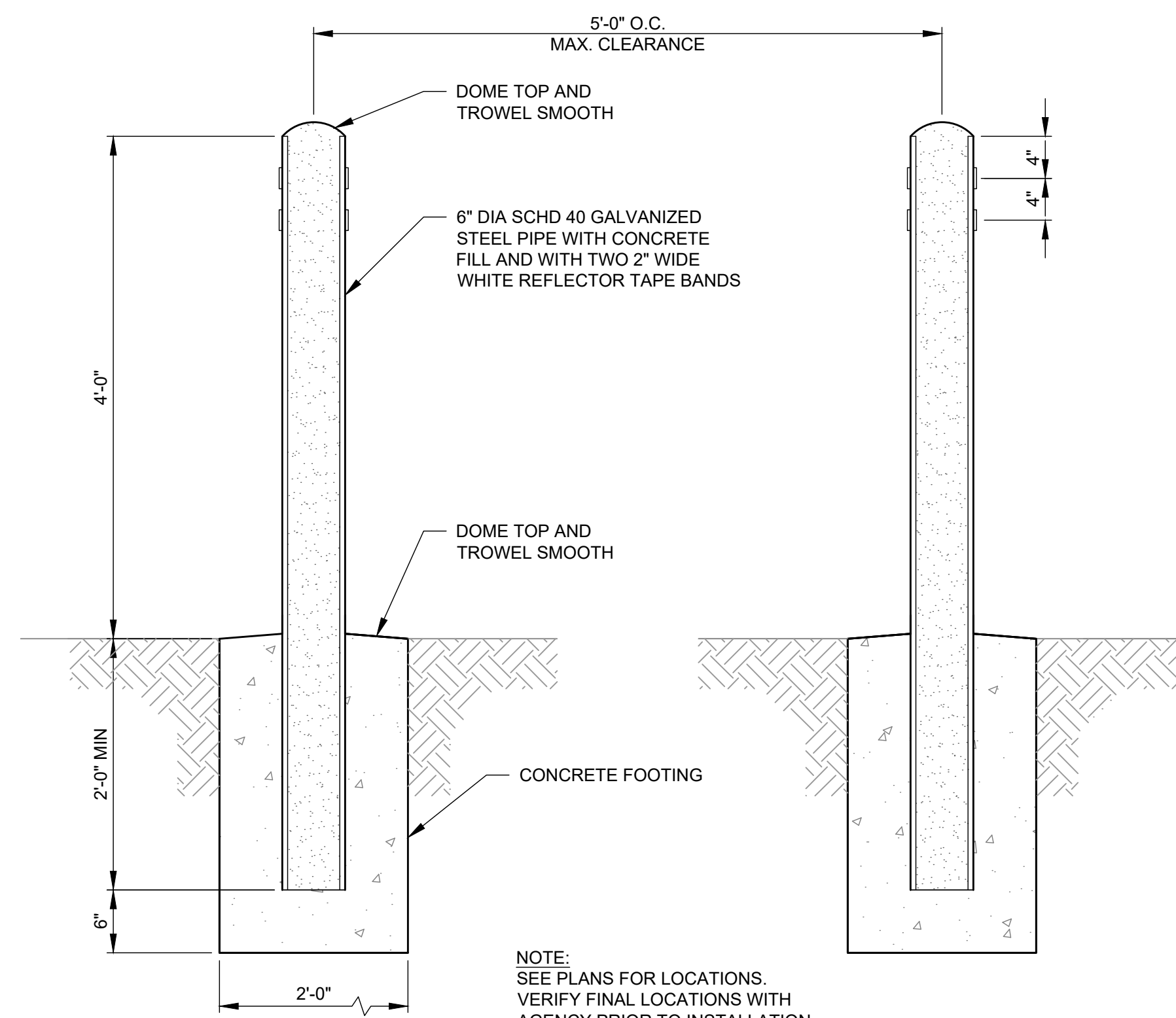
DATE:	JANUARY 2024
PROJECT:	1622900-210084.01

HEET:
50 OF 66

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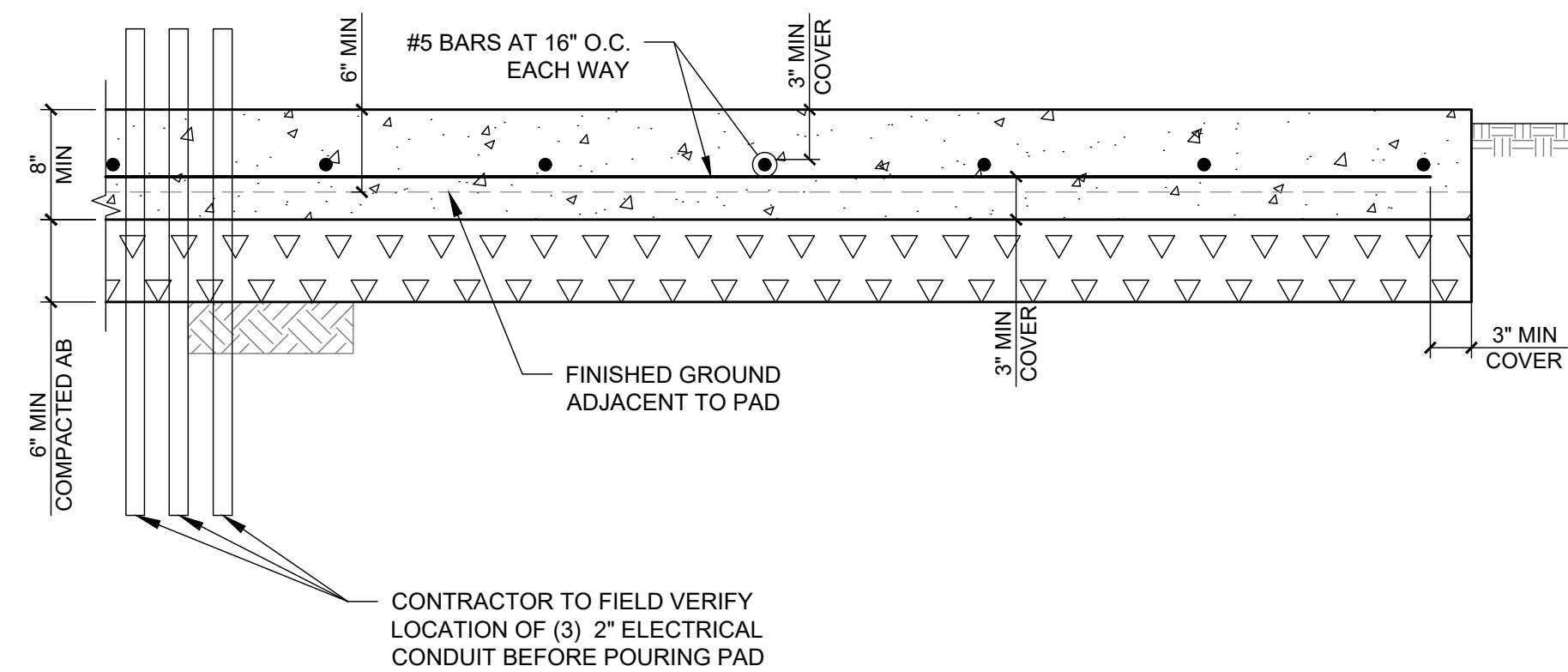
4 SAMPLING SHELTER PLAN EQUIPMENT PAD - PLAN
NOT TO SCALE



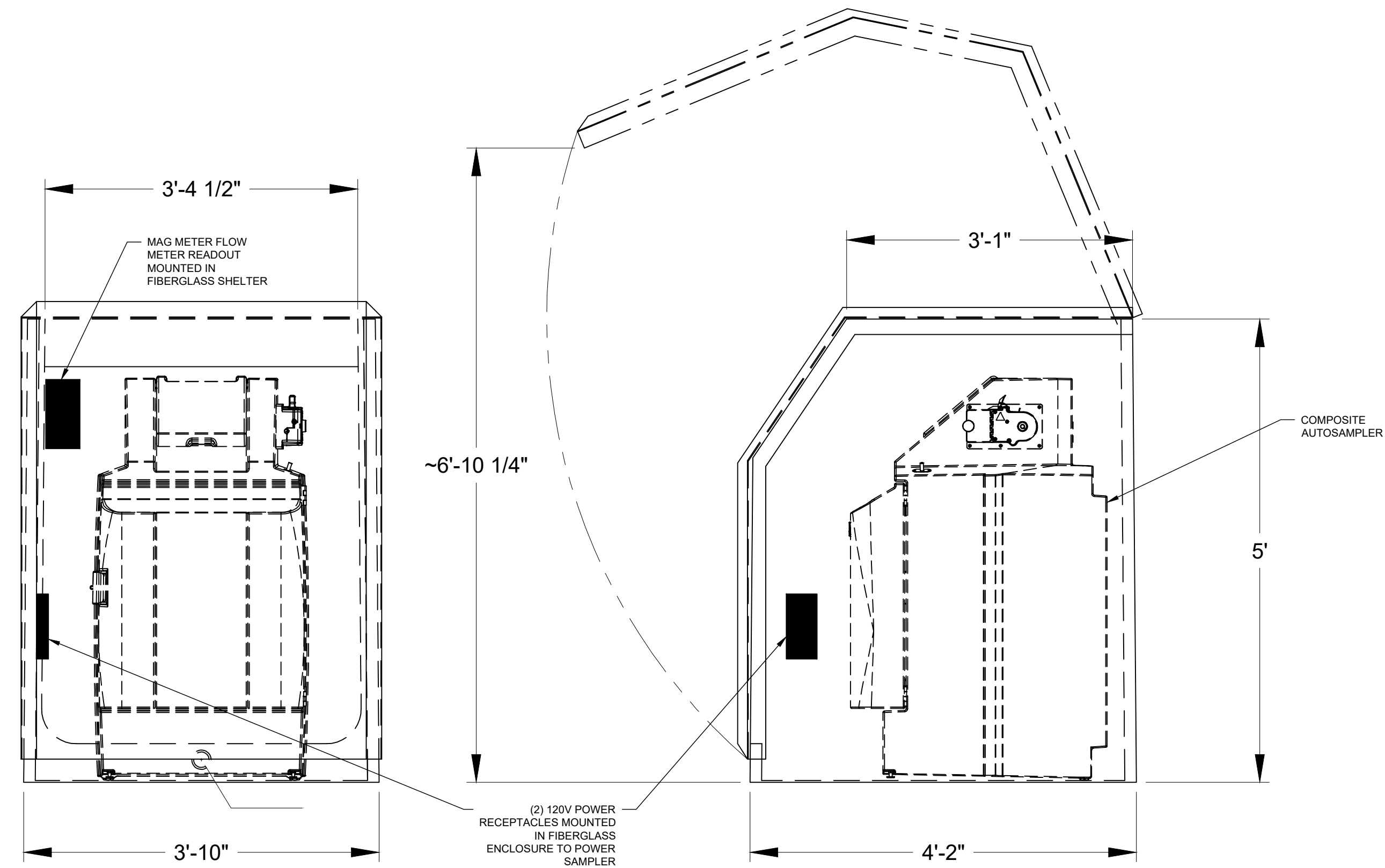
3 METAL BOLLARD
NOT TO SCALE

**RECORD
DRAWING**

THIS IS A CONSTRUCTION
RECORD DRAWING BASED ON
INFORMATION SUPPLIED BY THE
CONTRACTOR TO MEAD & HUNT.
MEAD & HUNT, INC. ASSUMES NO
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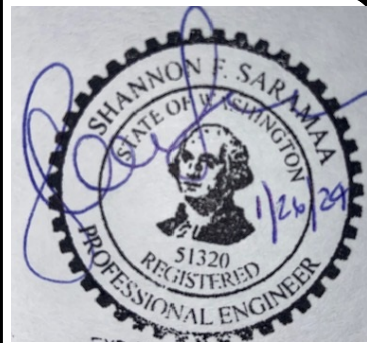
1 EXTERIOR EQUIPMENT PAD
NOT TO SCALE



ELEVATION VIEW

RIGHT ELEVATION VIEW

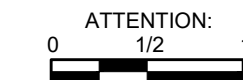
2 SAMPLER AND ENCLOSURE



NO.	REVISONS		DATE	BORDER SIZE
	DESCRIPTION			
04	ISSUED FOR CONSTRUCTION		07/14/2021	22"x34" DESIGNED
				TSG DRAWN
				BRE CHECKED
				TSG APPROVED
				TSG

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& Hunt**
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PANGBORN MEMORIAL AIRPORT
TERMINAL APRON RECONSTRUCTION
TESTING ENCLOSURE AND
CONCRETE PAD DETAILS



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