

City of Mineral Wells

Design Standard Review



4222 85th St.
Lubbock, TX 79423
806.473.2200

SHEET INDEX

General

G-001 Cover Sheet and Index

Civil

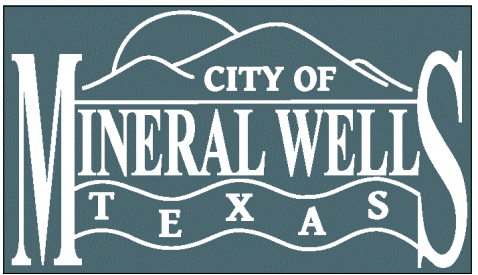
C-501 General Details
C-502 Water Details
C-503 Water Details
C-504 Water Details
C-505 Elevated Storage Tank Details
C-506 Ground Storage Tank Details
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C-508 Wastewater Details
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C-511 Paving Details
C-512 Erosion Control Details



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Mineral Wells Design Standards Review



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City of Mineral Wells

P.O. Box 460
Mineral Wells, Texas 76068
(940) 328-7777

PROJECT NO.

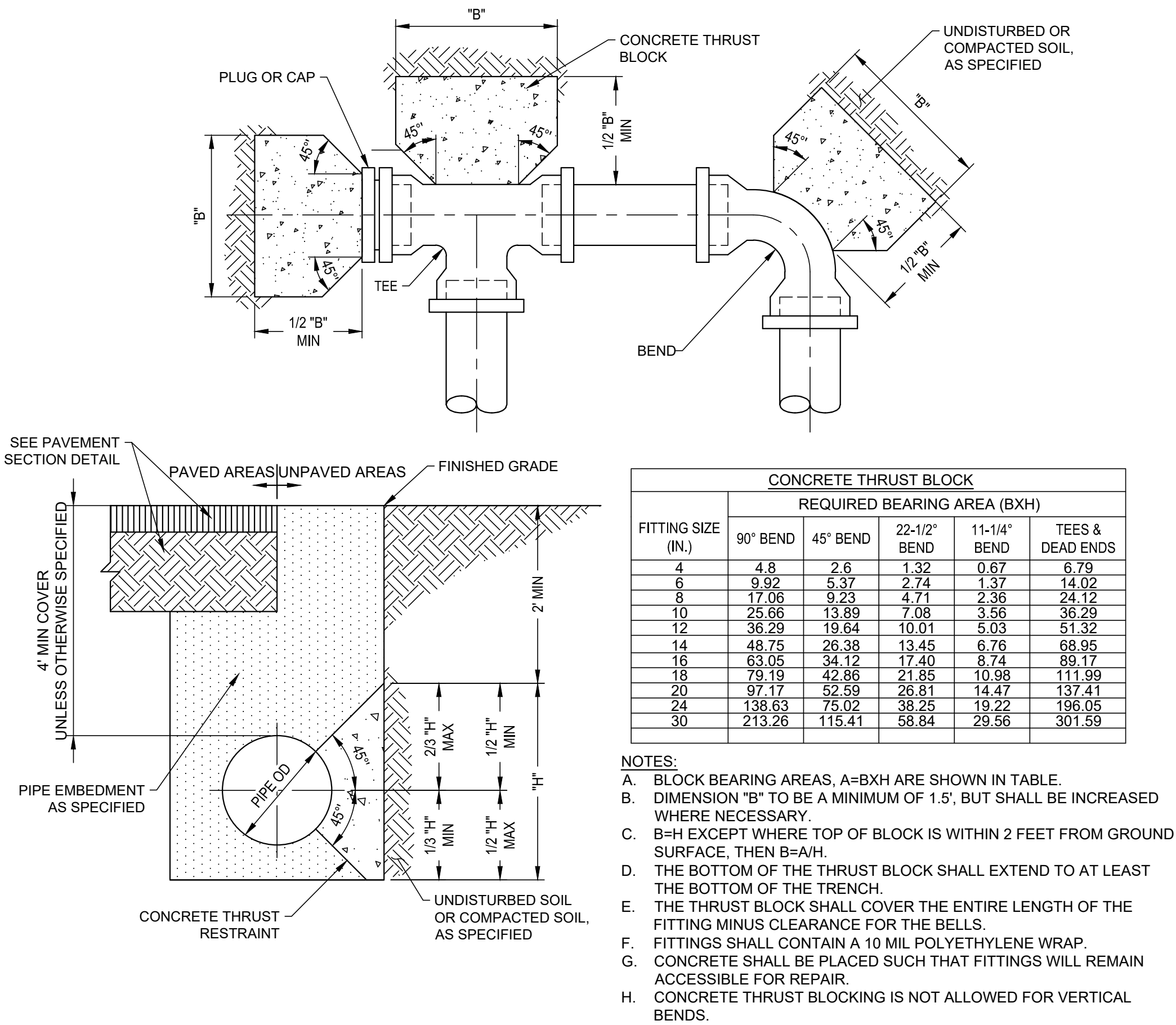
2503.22

#	DATE	DESCRIPTION
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Cover Sheet
and Index

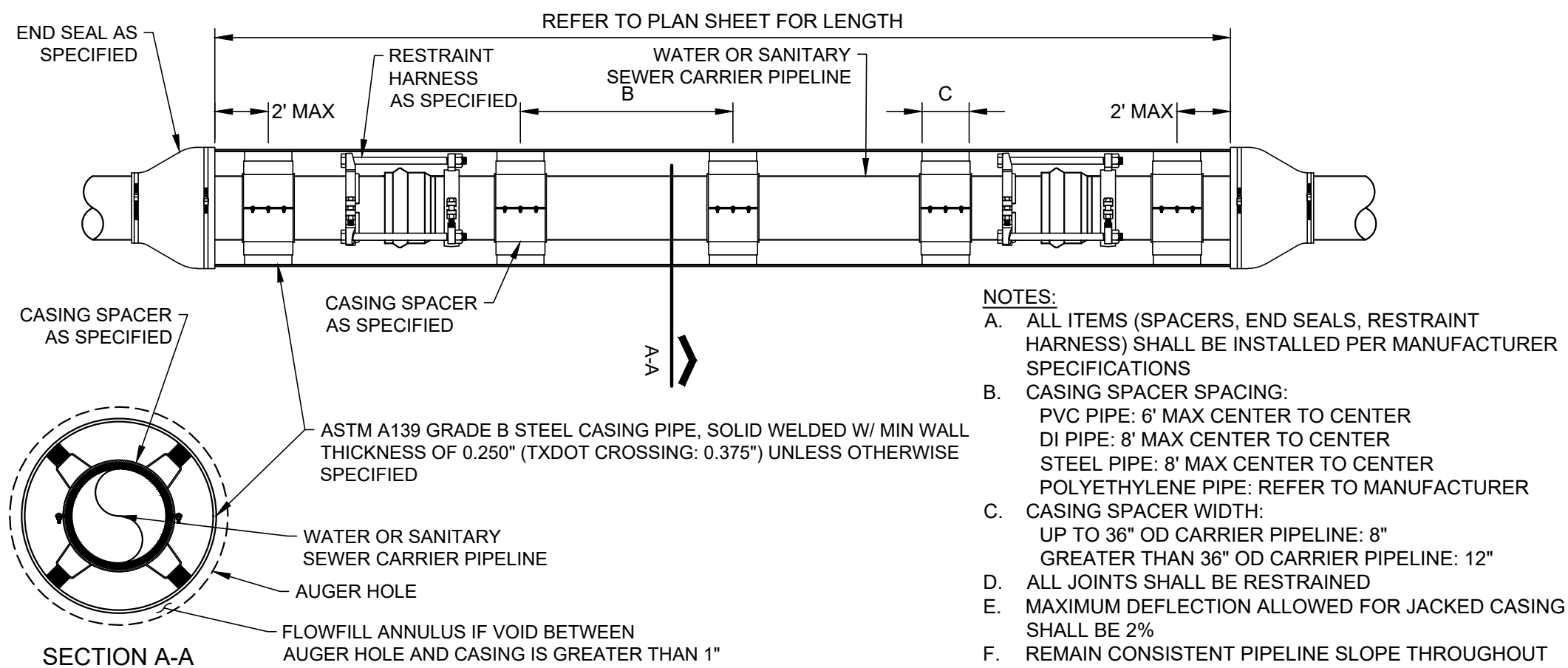
G-001

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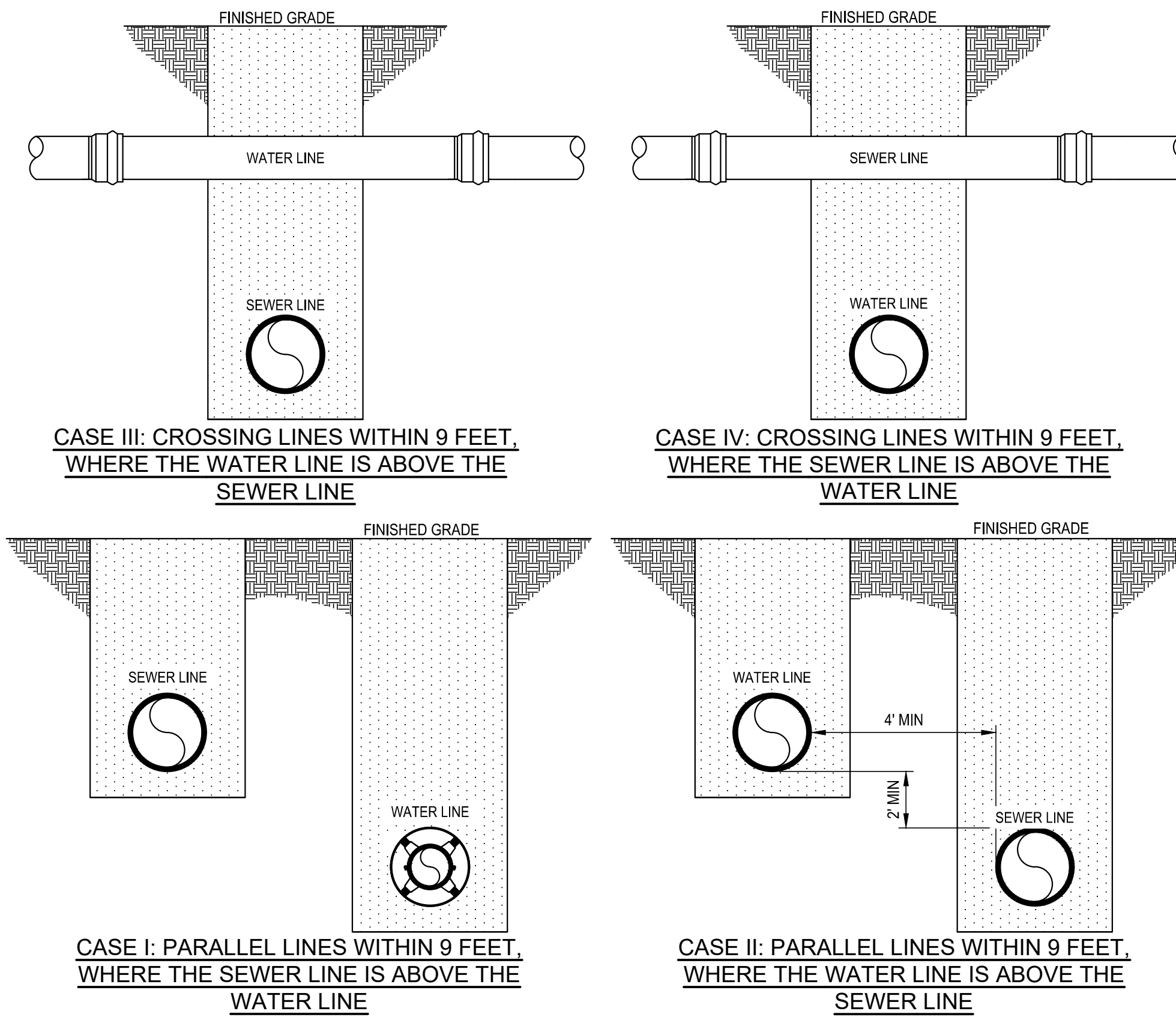
XX CONCRETE THRUST RESTRAINTS

NO SCALE



XX CASING/BORING DETAIL

NOT TO SCALE



XX WATER AND SEWER LINES PARALLEL AND CROSSING

NO SCALE

- CASE I**
A. WATER LINE MUST BE ENCASED IN 150 PSI PIPE THAT IS 2 NOMINAL SIZES GREATER THAN SEWER LINE, SUPPORTED BY SPACERS, AND SEALED AT BOTH ENDS.
- CASE II**
B. SEWER LINE MUST BE CONSTRUCTED OF AT LEAST 150 PSI PIPE
B.A. BE LOCATED AT LEAST 2 VERTICAL FEET FROM WATER LINE
B.B. BE LOCATED AT LEAST 4 HORIZONTAL FEET FROM WATER LINE
B.C. JOINTS THAT ARE DESIGNED TO SEAL AT ATMOSPHERIC PRESSURE
-OR-
C. SEWER LINE MUST BE ENCASED IN 150 PSI PIPE THAT IS 2 NOMINAL SIZES GREATER THAN SEWER LINE, SUPPORTED BY SPACERS, AND SEALED AT BOTH ENDS.
- CASE III/IV**
D. SEWER LINE MUST BE CONSTRUCTED OF AT LEAST 150 PSI PIPE
D.A. BE LOCATED AT LEAST 6 VERTICAL INCHES FROM WATER LINE
D.B. BE CENTERED ON THE CROSSING
D.C. BE AT LEAST 18 FEET LONG
D.D. TERMINATE AT JOINTS THAT ARE DESIGNED TO SEAL AT ATMOSPHERIC PRESSURE
-OR-
E. SEWER LINE MUST BE ENCASED IN 150 PSI PIPE THAT IS 2 NOMINAL SIZES GREATER THAN SEWER LINE, SUPPORTED BY SPACERS, AND SEALED AT BOTH ENDS.
-OR-
F. SEWER LINE MUST BE ENCASED IN CEMENT-STABILIZED SAND
F.A. INCLUDE AT LEAST 160 POUNDS OF CEMENT FOR EVERY CUBIC YARD OF SAND
F.B. BE INSTALLED BEGINNING ONE-QUARTER PIPE DIAMETER BELOW THE CENTERLINE OF THE SEWER LINE
F.C. BE INSTALLED ENDING ONE FULL PIPE DIAMETER ABOVE THE TOP OF THE SEWER LINE, OR 12 INCHES ABOVE THE TOP OF THE SEWER LINE, WHICHEVER IS GREATER

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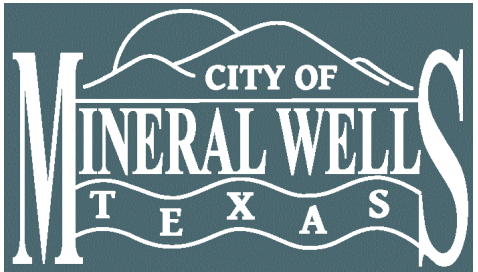
PROJECT NO.

2503.22

#	DATE	DESCRIPTION
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General Details

C-501



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City of Mineral Wells

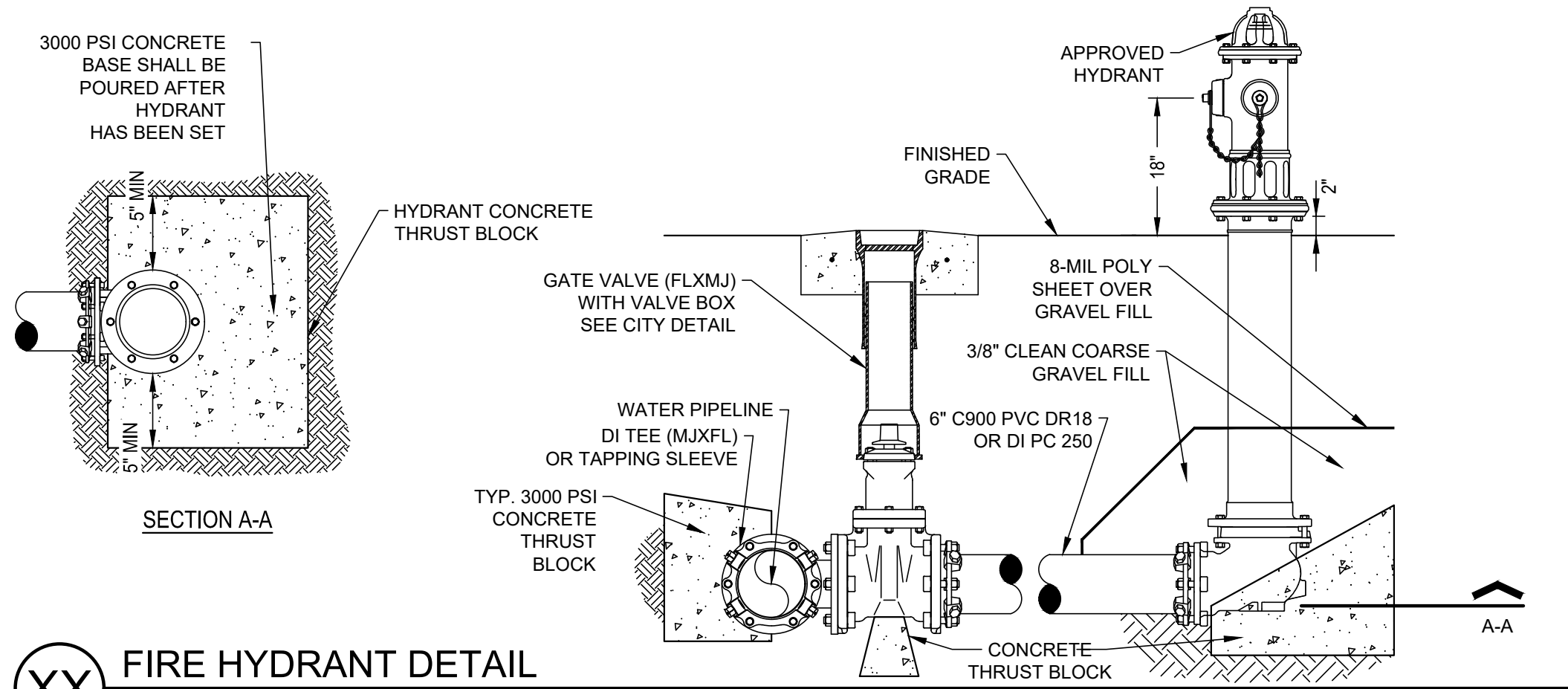
P.O. Box 460
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(940) 328-7777

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2503.22

DATE DESCRIPTION

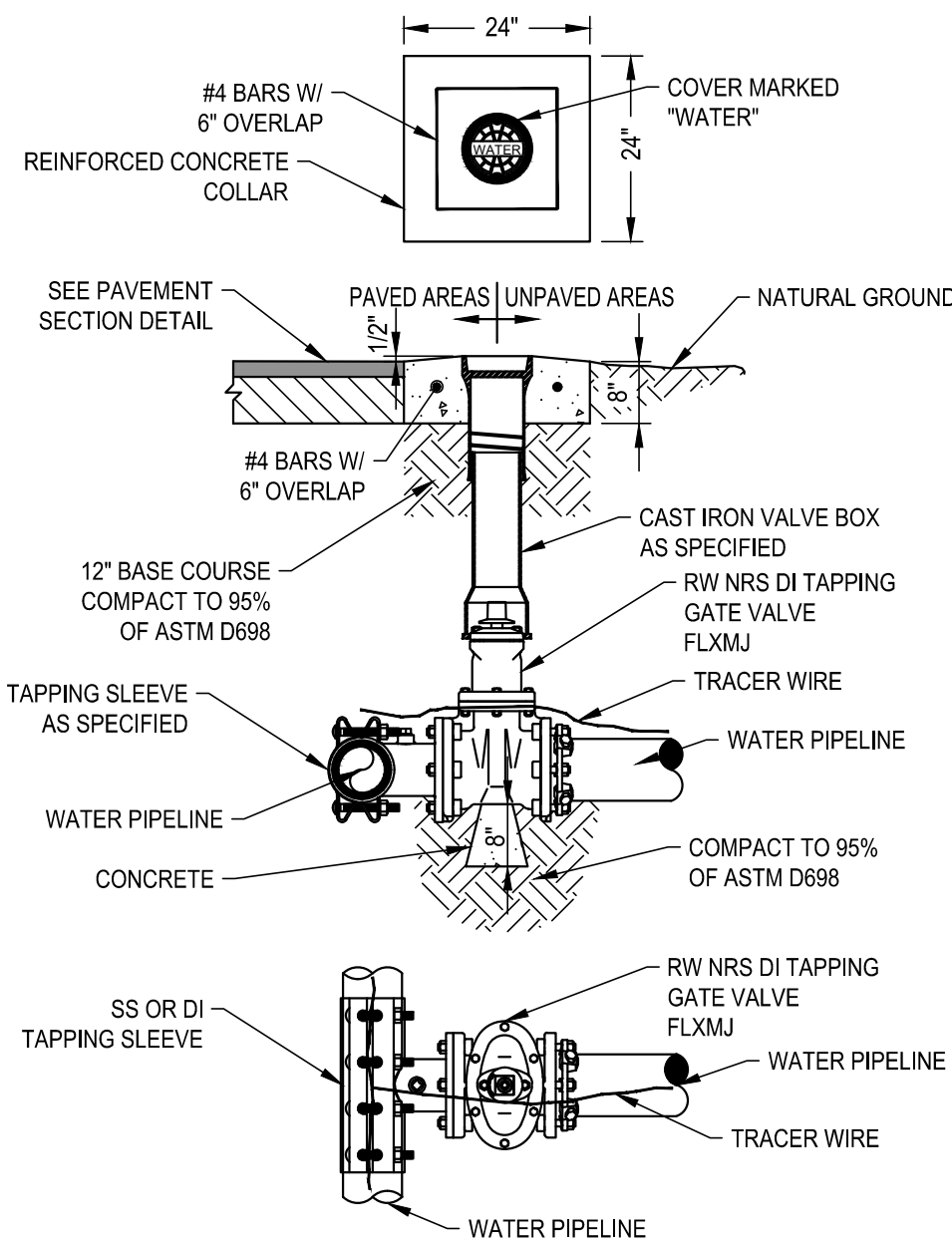
Water Details

C-502

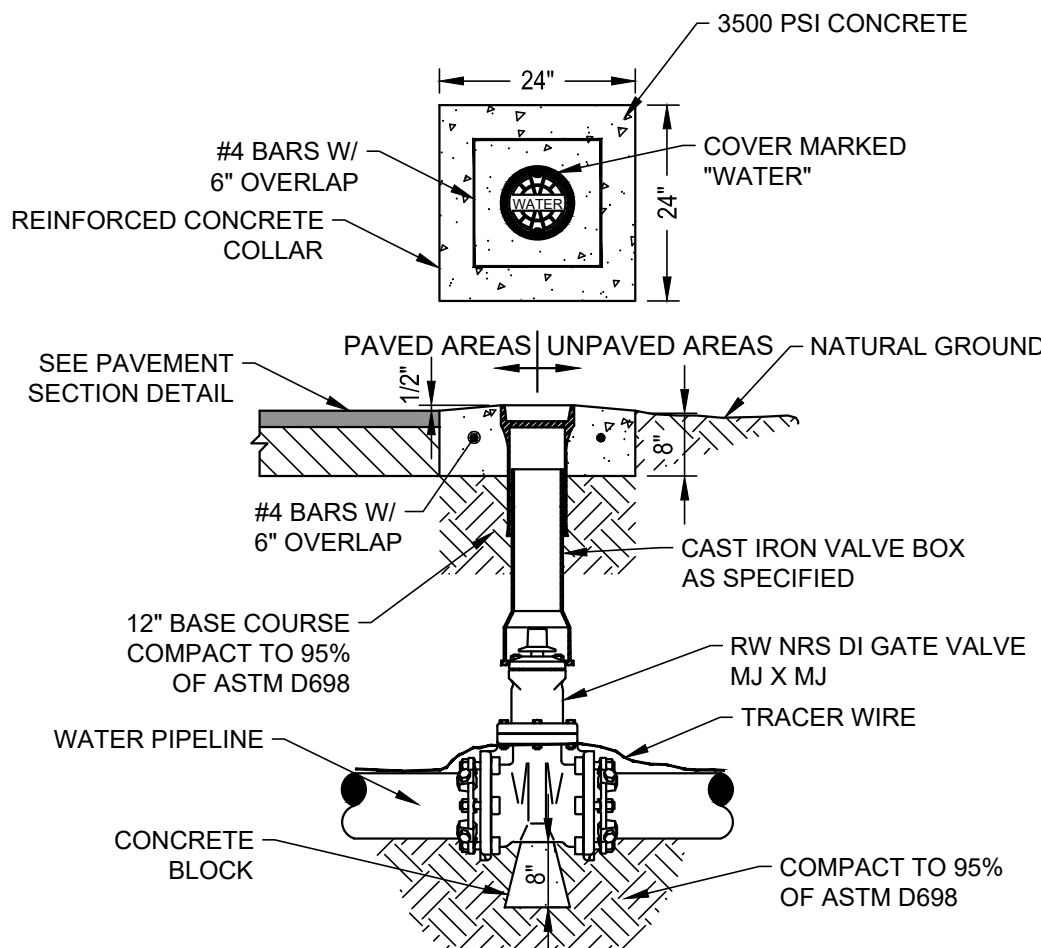


XX FIRE HYDRANT DETAIL
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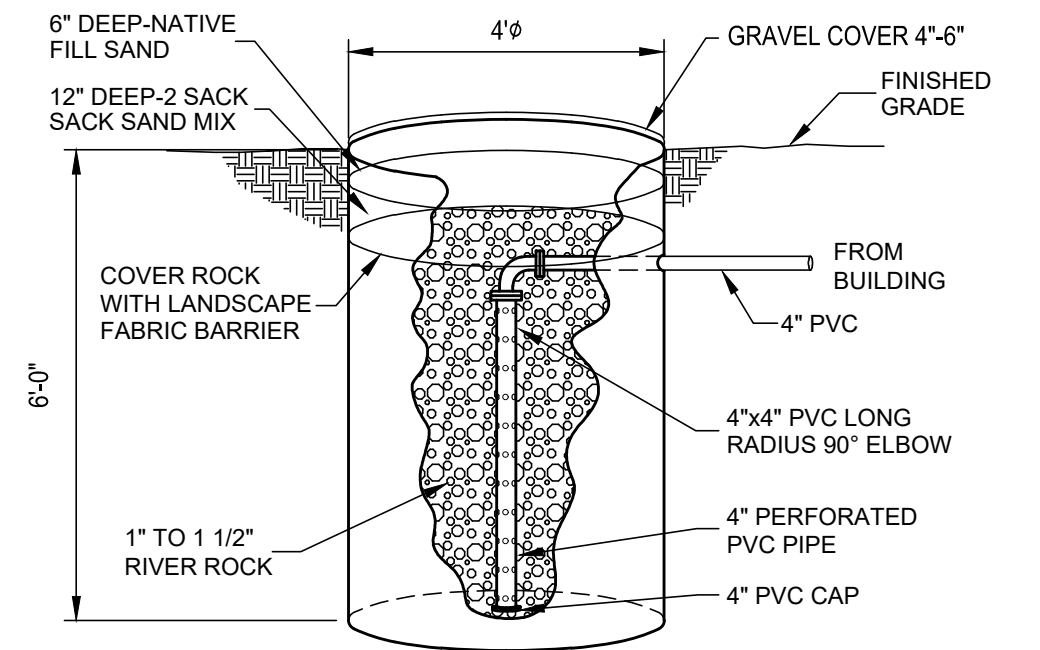
NOTES:
A. VERIFY DRAIN HOLES IN HYDRANT SHOE ARE FREE FROM OBSTRUCTION
B. INSTALL AND TEST HYDRANT IN ACCORDANCE WITH AWWA M-17
C. BACKFILL AND COMPACT AS SPECIFIED



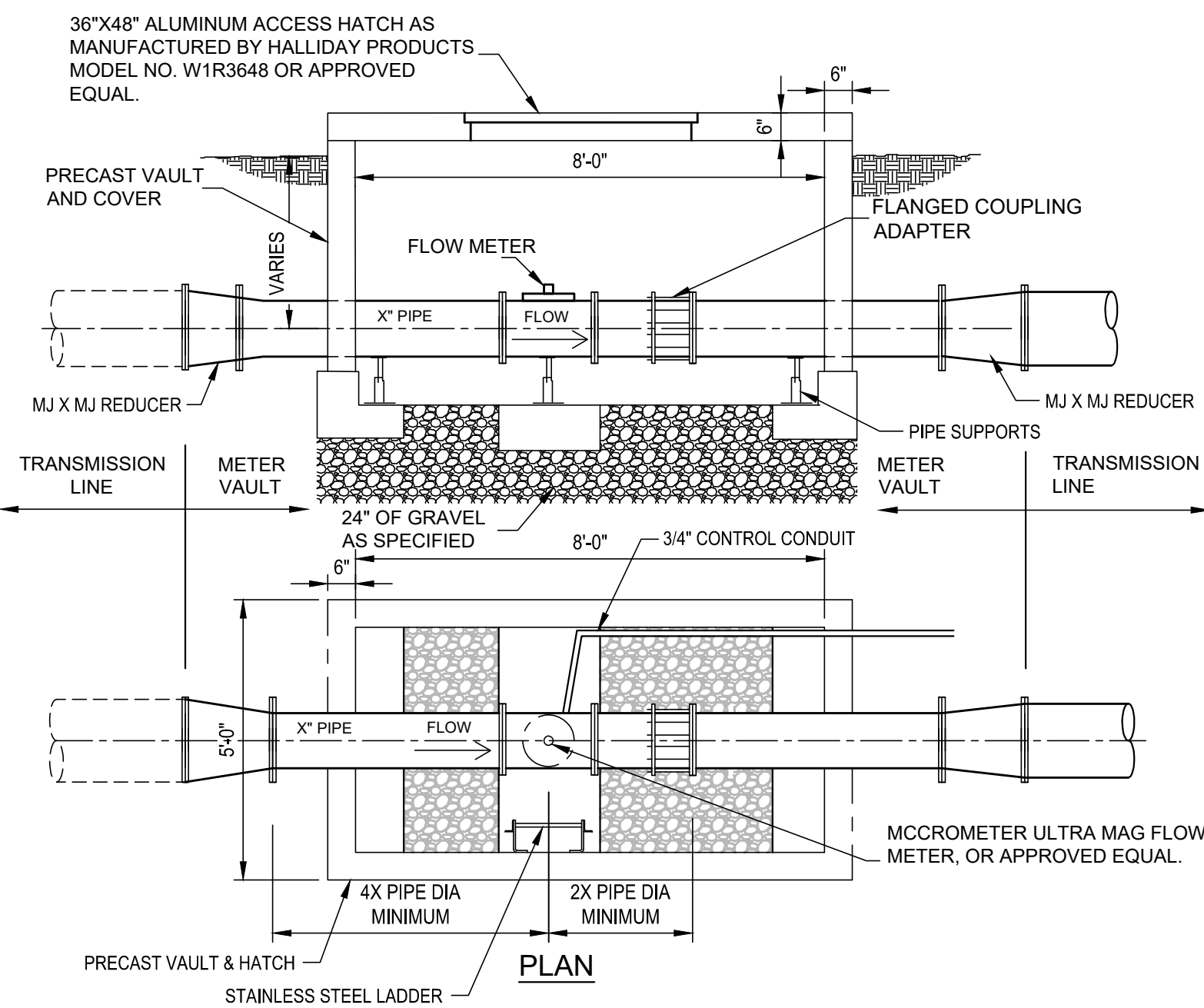
A3 TYP HOT TAP INSTALLATION
NOT TO SCALE



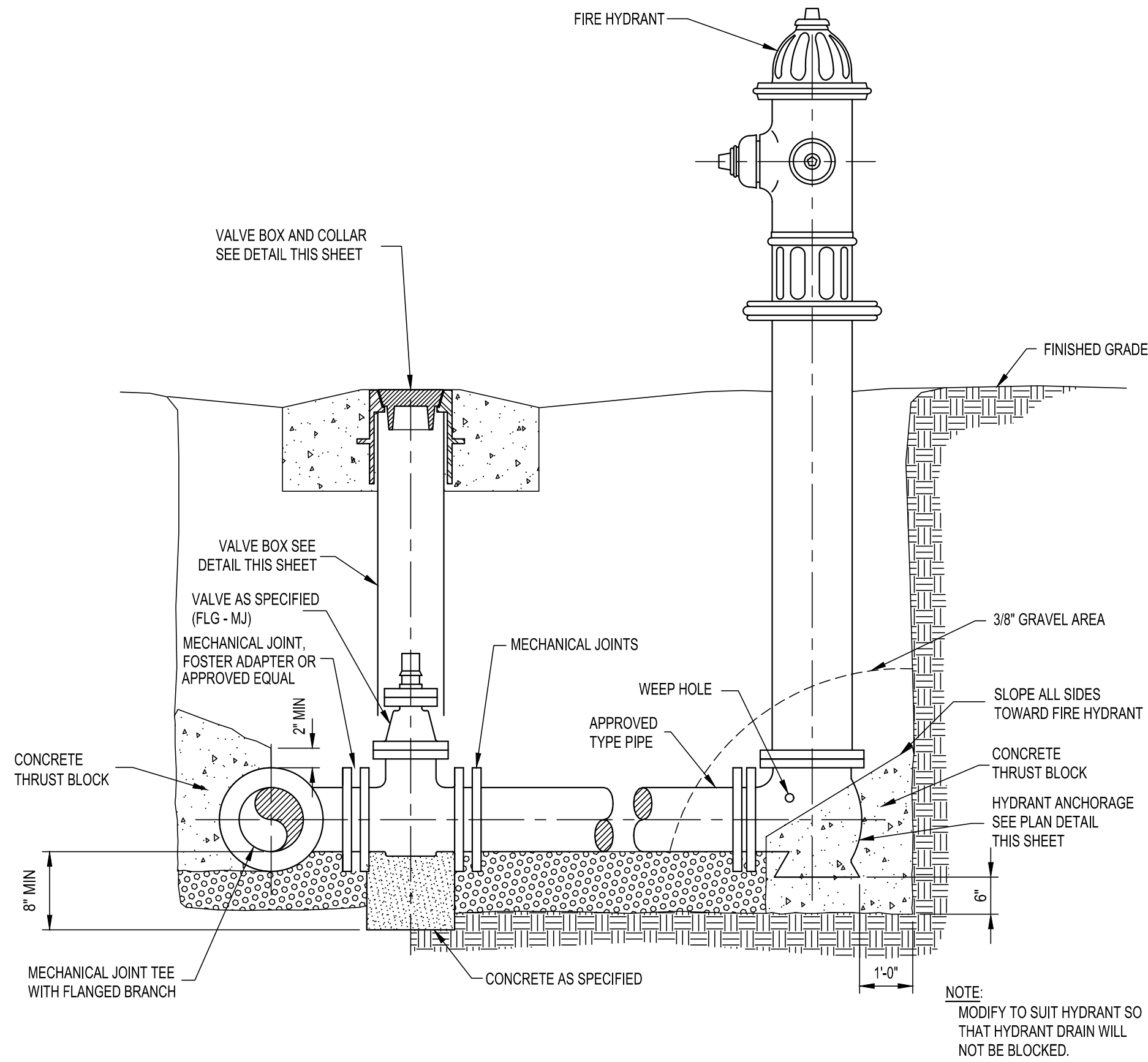
XX TYP GATE VALVE INSTALLATION
NOT TO SCALE



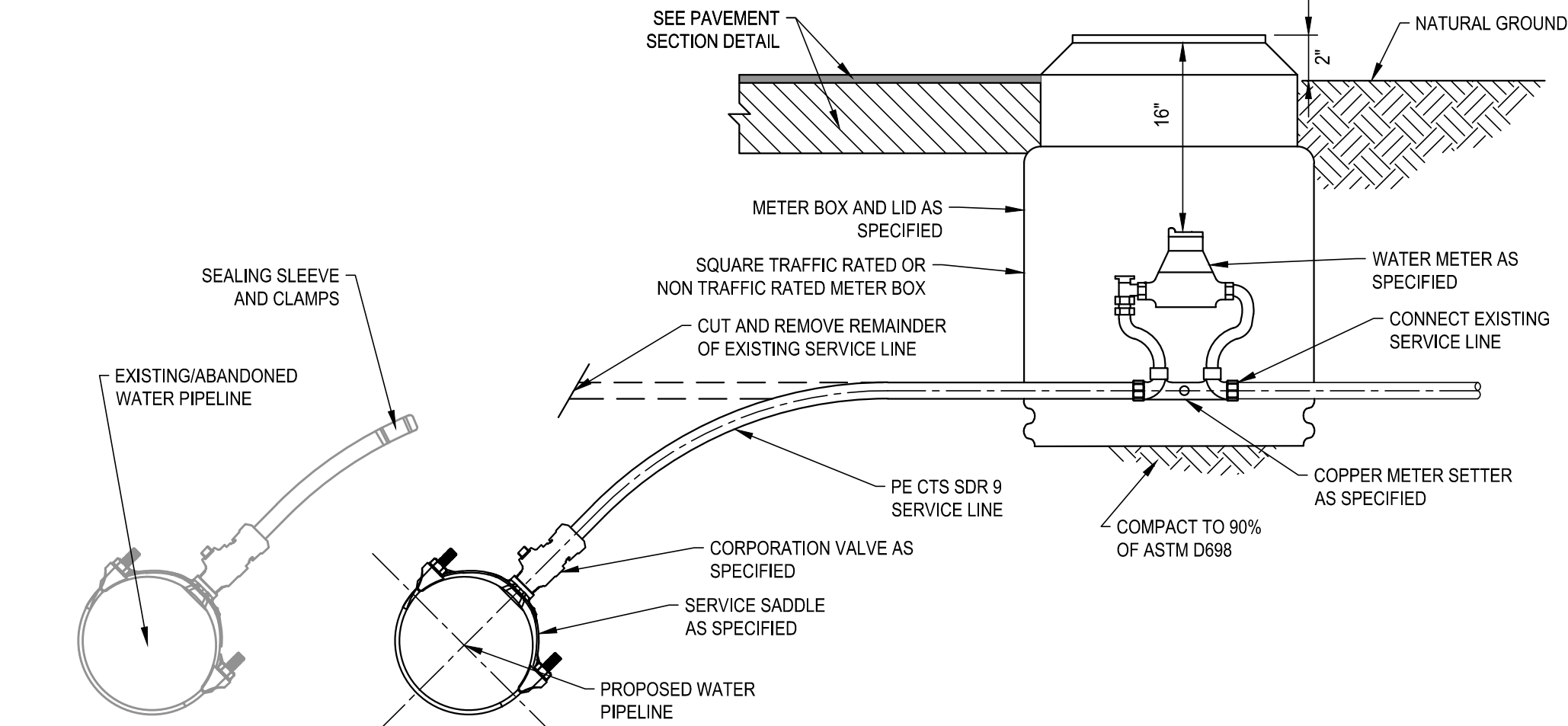
XX FRENCH DRAIN DETAIL
NO SCALE



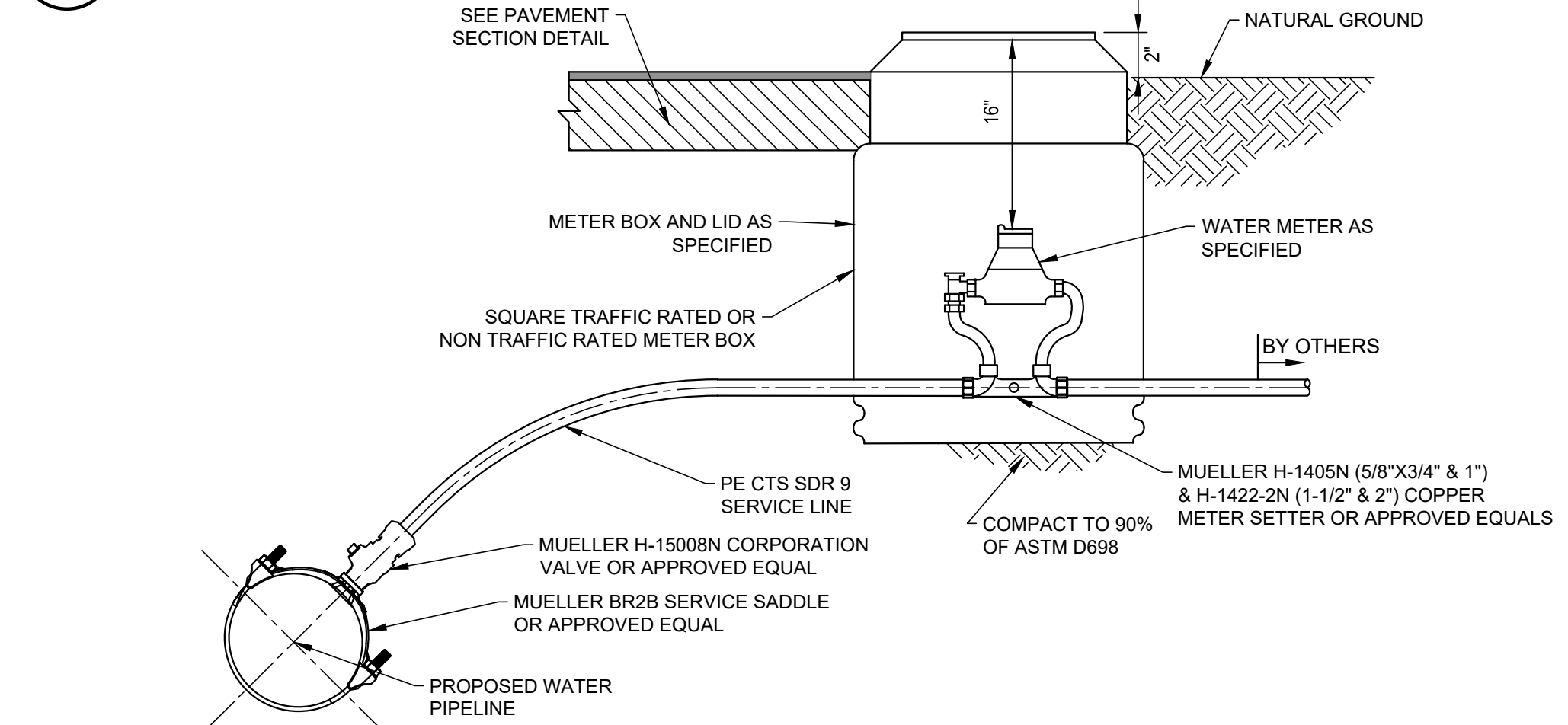
XX FLOW METER VAULT DETAIL
NO SCALE



XX FIRE HYDRANT ASSEMBLY DETAIL
NOT TO SCALE



XX CONNECTION TO EXISTING WATER SERVICE AND METER
NOT TO SCALE

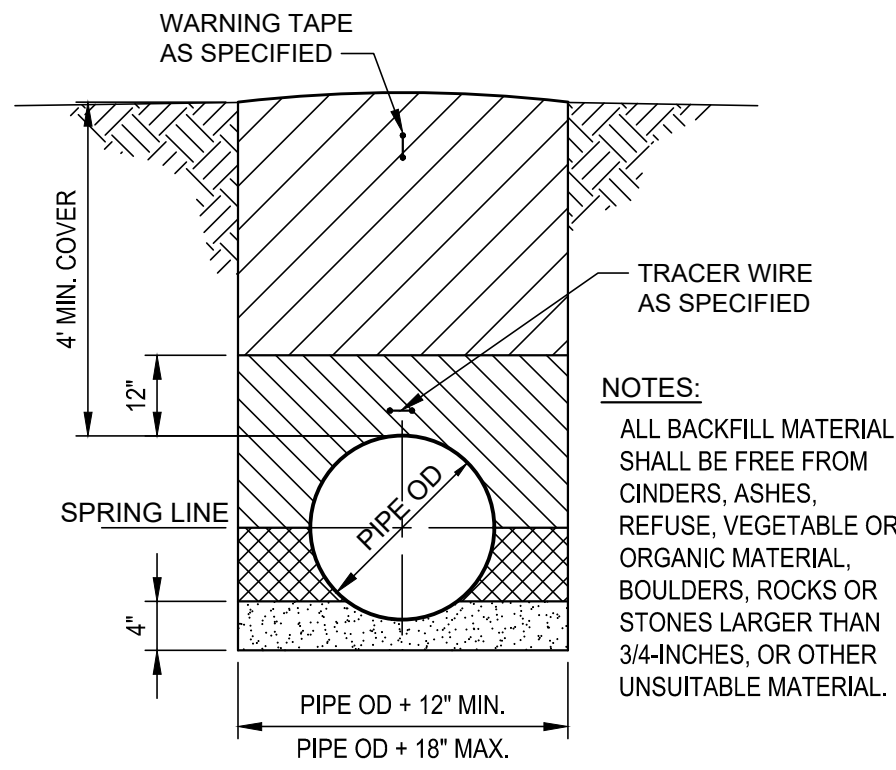
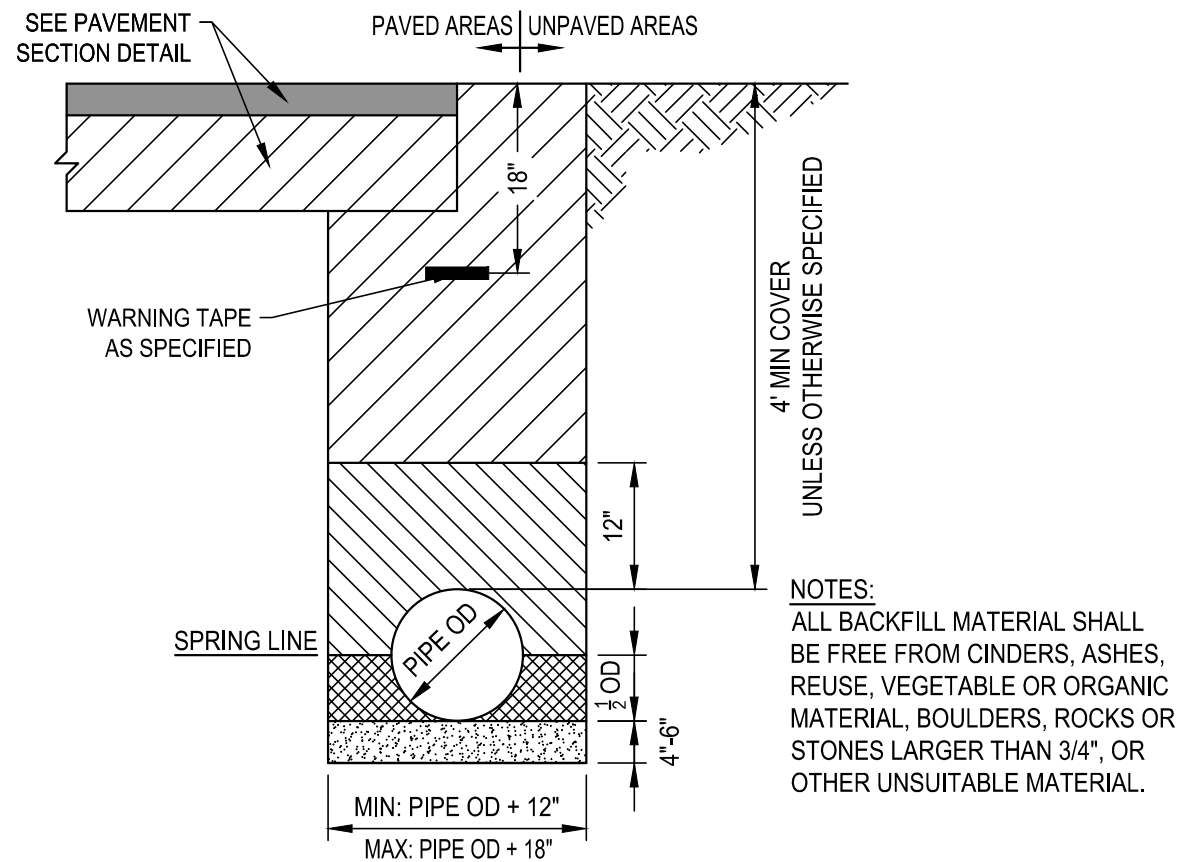


XX PROPOSED WATER SERVICE CONNECTION AND METER
NOT TO SCALE

A:\2021\2503.22\03_DSG\050_CIVIL\WATER-DETAILS.DWG, 9/27/2022 11:33:35 PM, RHaskins

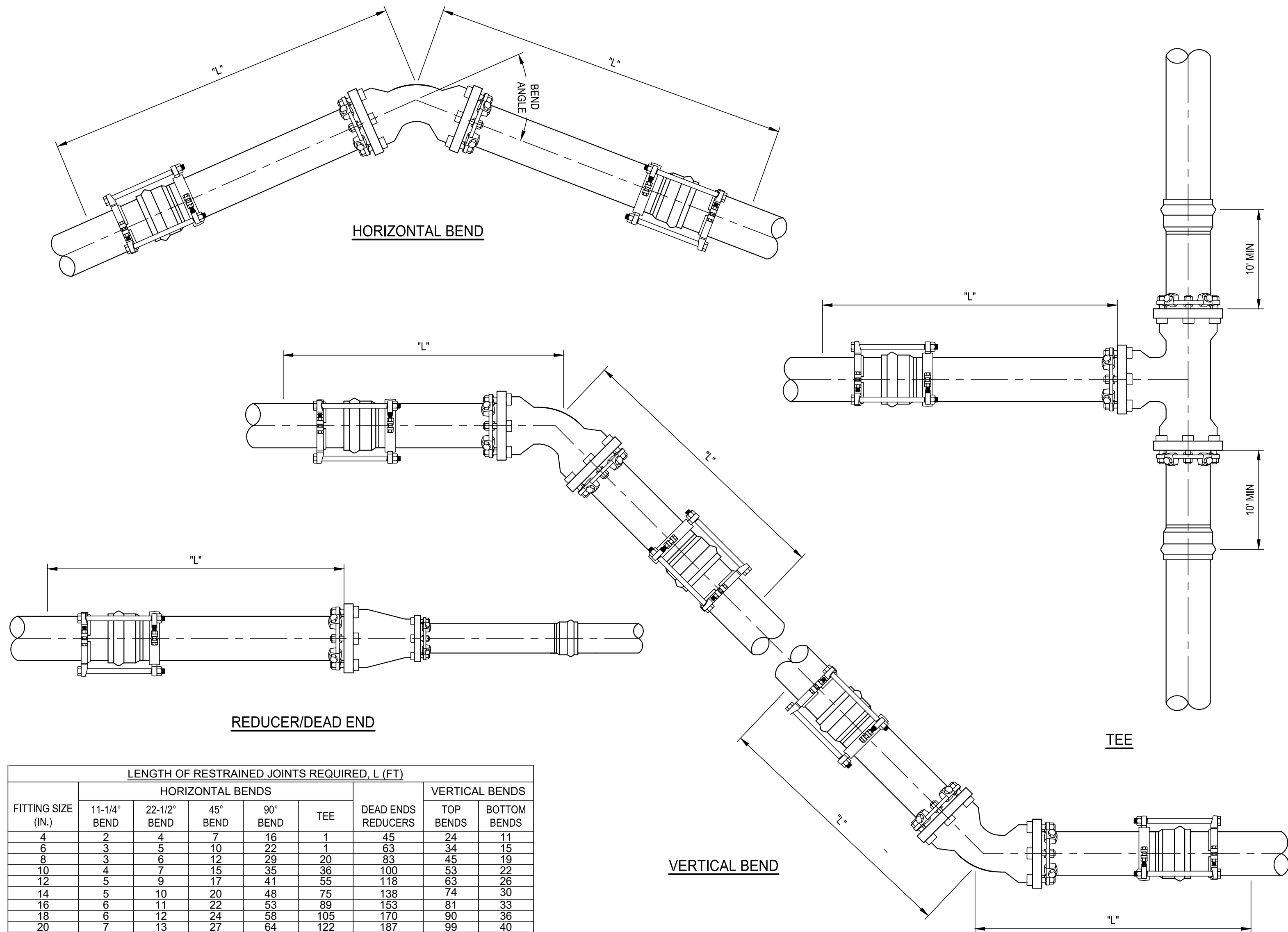
- LEGEND:
- BEDDING AS SPECIFIED.
 - HAUNCHING AS SPECIFIED.
 - INITIAL BACKFILL AS SPECIFIED.
 - FINAL BACKFILL AS SPECIFIED.

XX FLEXIBLE PIPE TRENCH DETAIL
NOT TO SCALE



XX WATER LINE TRENCH DETAIL
NO SCALE

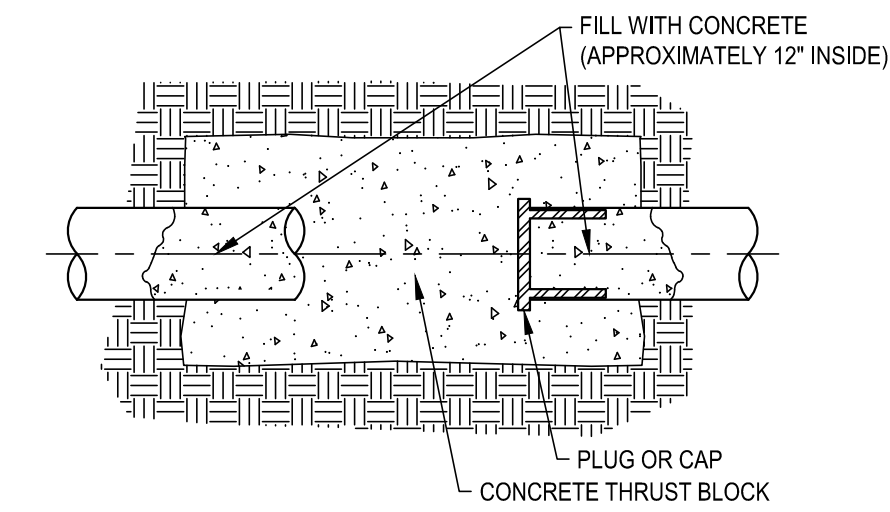
- LEGEND
- BEDDING SHALL BE NATIVE TRENCH MATERIAL LOOSELY PLACED AS SPECIFIED.
 - HAUNCHING SHALL BE NATIVE TRENCH MATERIAL PLACED BY HAND IN 3-INCH LAYERS, THOROUGHLY COMPACTED AS SPECIFIED.
 - INITIAL BACKFILL SHALL BE NATIVE TRENCH MATERIAL PLACED BY HAND OR APPROVED MECHANICAL METHODS IN 6-INCH LAYERS, COMPACTED TO 95% OF THE MAXIMUM DENSITY AS SPECIFIED.
 - FINAL BACKFILL SHALL BE NATIVE TRENCH MATERIAL PLACED OR TAMPED AS SPECIFIED, MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS SPECIFIED



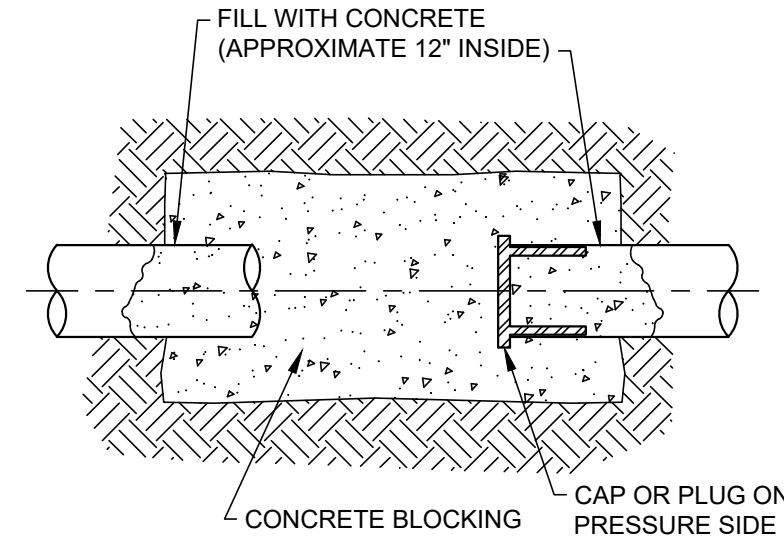
LENGTH OF RESTRAINED JOINTS REQUIRED, L (FT)									
FITTING SIZE (IN.)	HORIZONTAL BENDS					DEAD ENDS REDUCERS	VERTICAL BENDS		
	11-1/4" BEND	22-1/2" BEND	45° BEND	90° BEND	TEE		TOP BENDS	BOTTOM BENDS	
4	2	4	7	16	1	45	24	11	
6	3	5	10	22	1	63	34	15	
8	4	6	12	29	20	83	45	19	
10	4	7	15	35	36	100	53	22	
12	5	9	17	41	55	118	63	26	
14	5	10	20	48	75	138	74	30	
16	6	11	22	53	89	153	81	33	
18	6	12	24	58	105	170	90	36	
20	7	13	27	64	122	187	99	40	
24	8	15	31	74	155	220	116	45	
30	9	18	30	89	200	267	140	54	
36	11	21	43	103	246	313	163	61	

- NOTES:
- A. DESIGN CRITERIA
 - A.A. PIPE MATERIAL: PVC AWWA C900
 - A.B. SOIL TYPE: SC
 - A.C. SAFETY FACTOR: 1.5 TO 1
 - A.D. TRENCH TYPE: 4
 - A.E. MINIMUM BURY DEPTH (FT): 3
 - A.F. TEST PRESSURE (PSI): 200

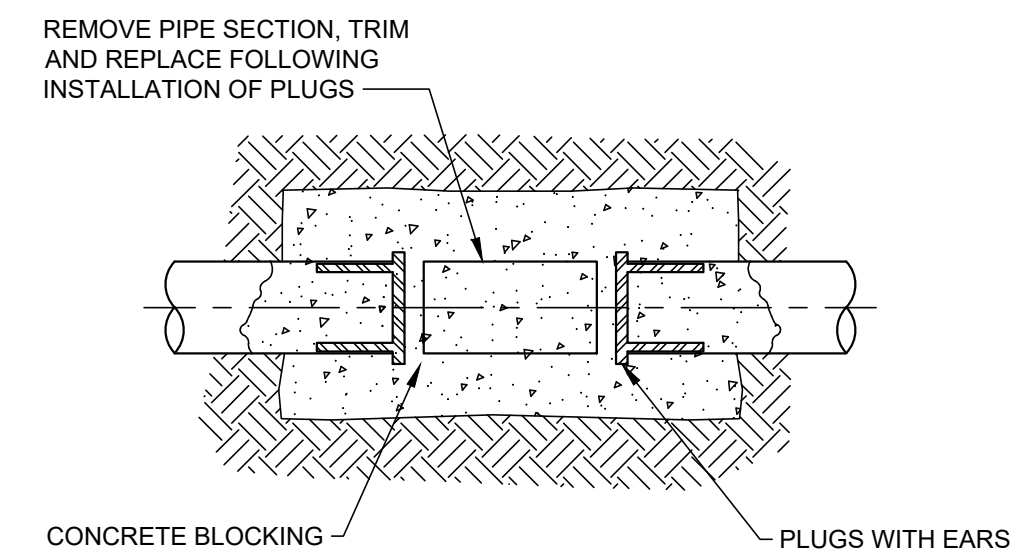
XX MECHANICAL JOINT THRUST RESTRAINTS
NO SCALE



XX ANCHORAGE FOR CUT & PLUG
NO SCALE



XX CUT & PLUG DETAIL
NO SCALE



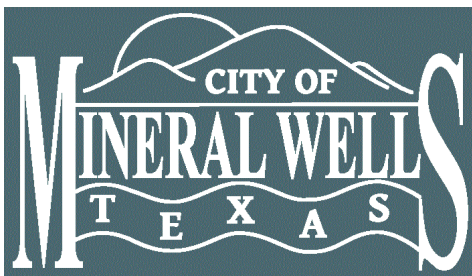
XX CUT & 2 PLUGS
NO SCALE

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Mineral Wells
Design Standards Review



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PROJECT NO.
2503.22

DATE DESCRIPTION

Water Details
C-503



City of Mineral Wells

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PROJECT NO.
2503.22

#	DATE	DESCRIPTION
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NOTES:

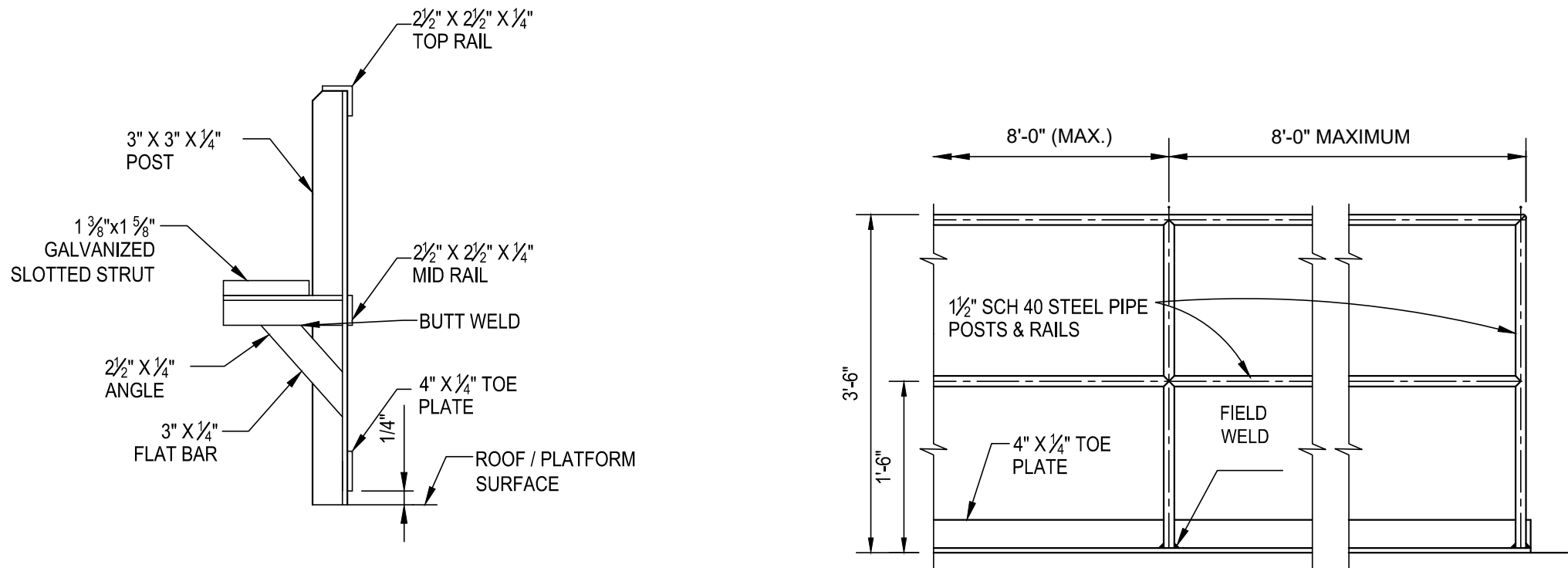
1. CONCRETE VAULT AND HATCH SHALL BE MANUFACTURED BY VAUGHN CONCRETE, OR APPROVED EQUAL. HATCH SHALL BE ALUMINUM AND DESIGNED FOR OFF STREET H-20 LOADS.



ALL EXPOSED PIPING SHALL BE FIELD PAINTED ACCORDINGLY: BRUSH-OFF BLAST. (DUCTILE IRON PIPE SHALL BE SUPPLIED WITHOUT A COATING TO REDUCE SURFACE PREPARATION TIME) PRIME WITH TNMEC SERIES 135 CHEMBUILD (4.0-6.0 DRY MILS), TOP COAT WITH TNMEC SERIES 10754 (2.0-3.0 DRY MILS) COLOR SELECTION BY OWNER

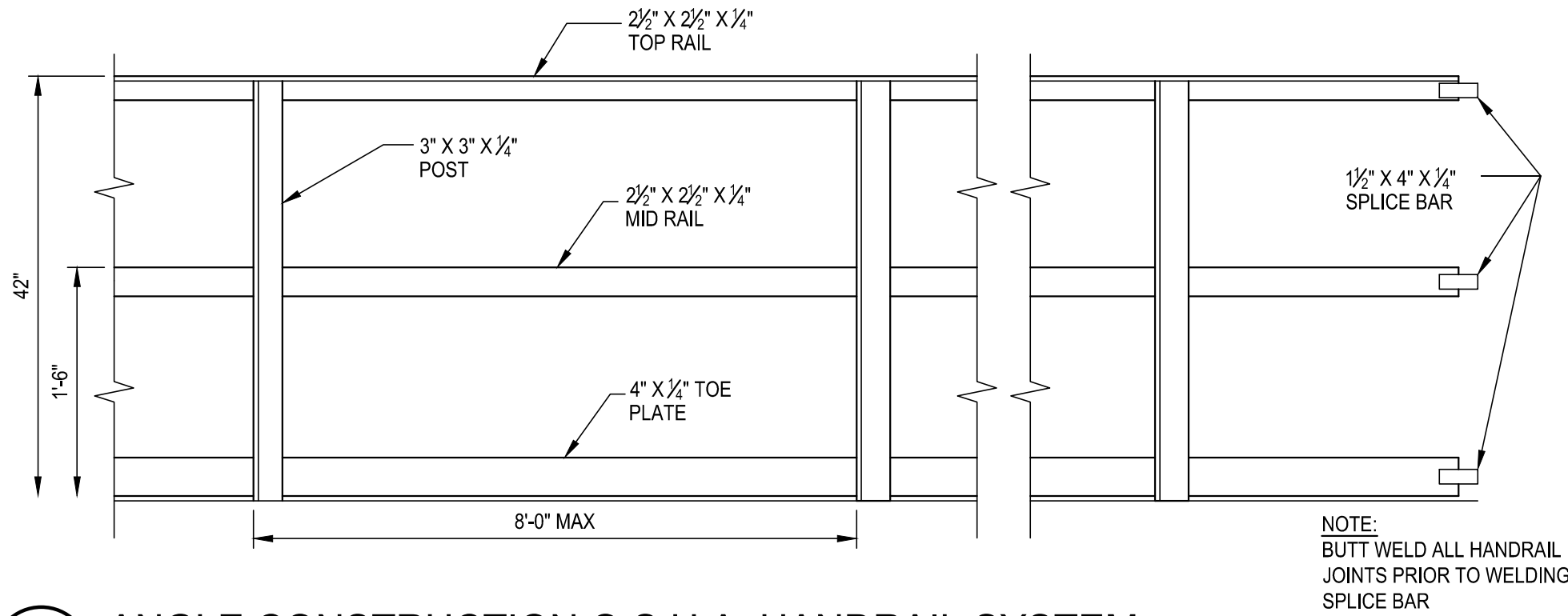


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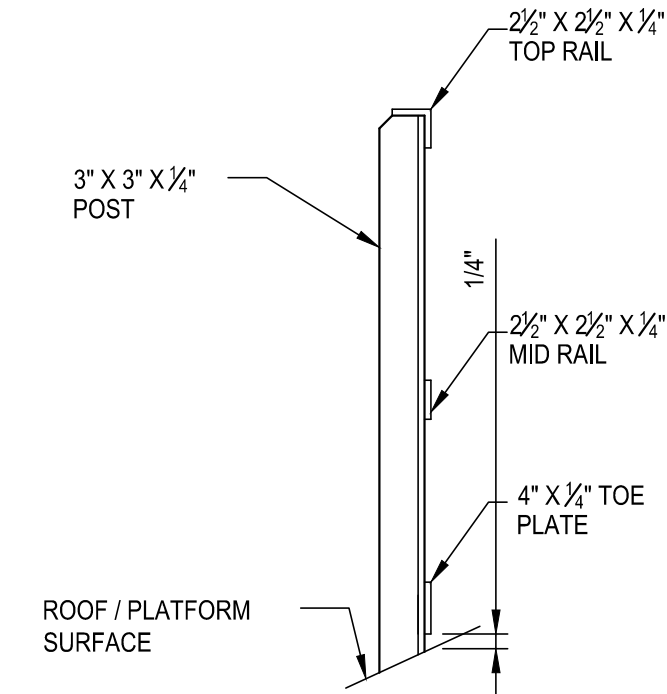


XX HANDRAIL BRACKET
NO SCALE:

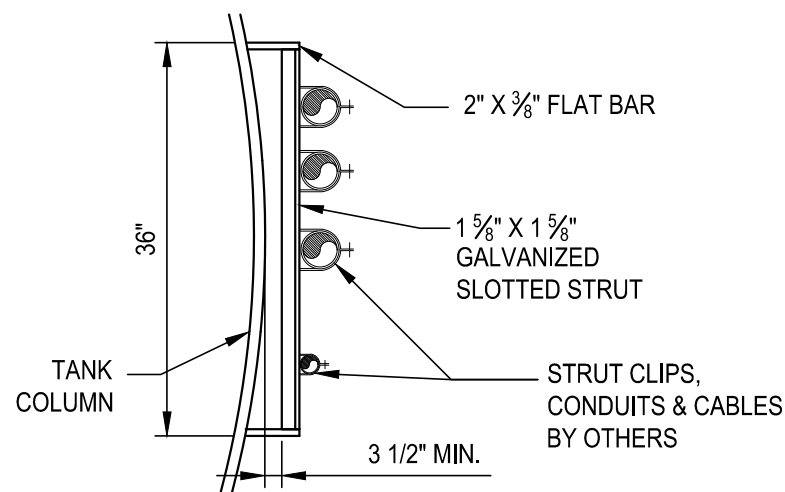
XX PIPE CONSTRUCTION HANDRAIL
NO SCALE



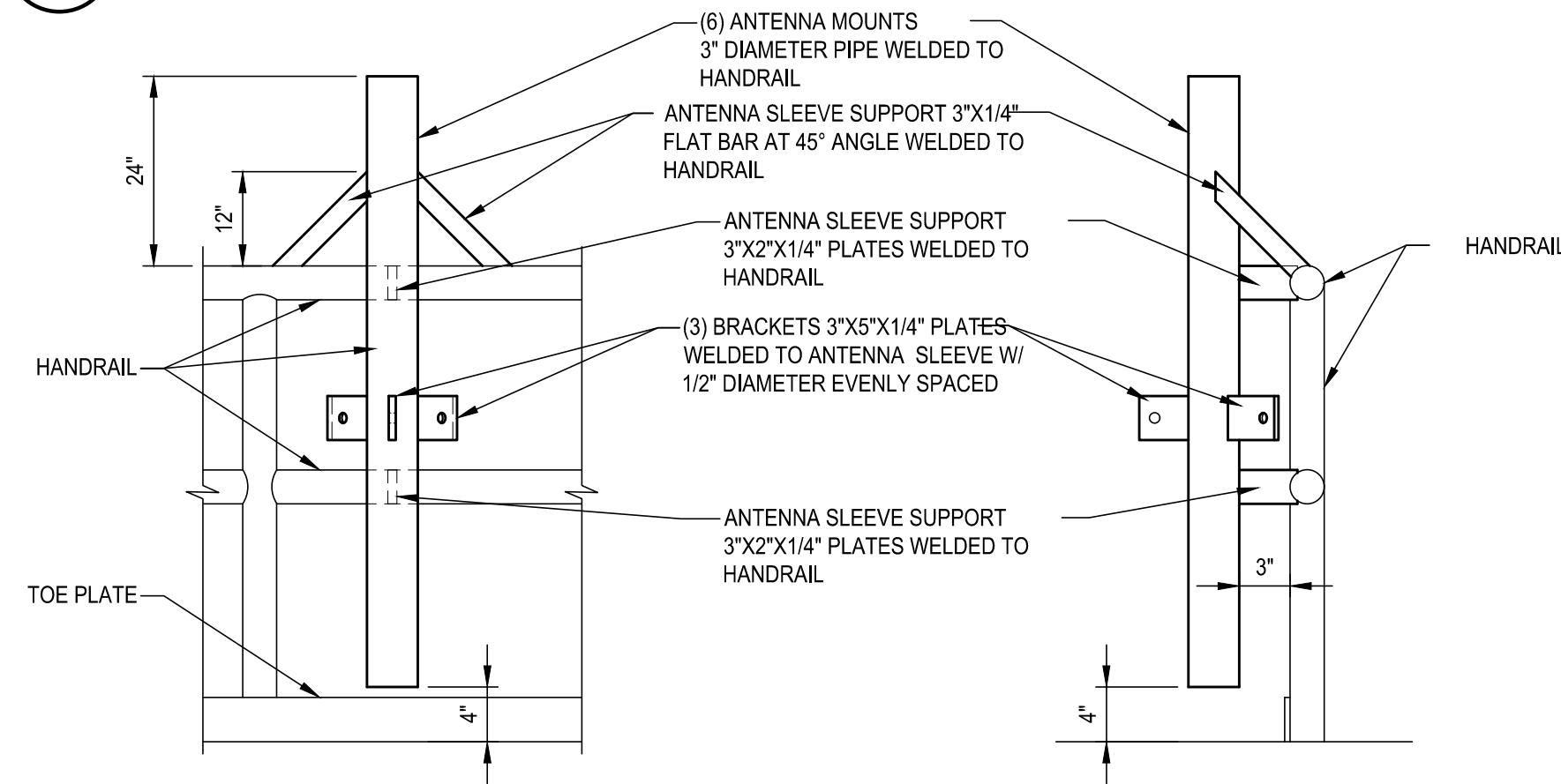
XX ANGLE CONSTRUCTION O.S.H.A. HANDRAIL SYSTEM
NO SCALE:



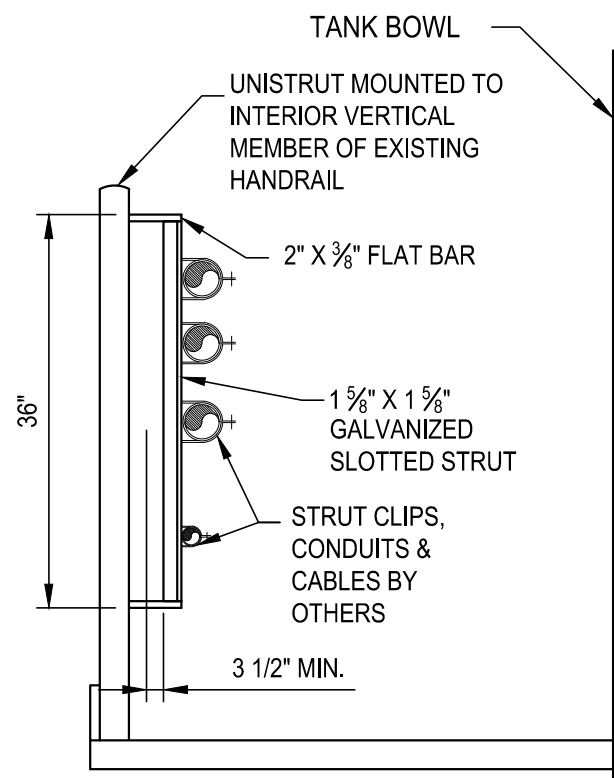
XX ANGLE HANDRAIL SECTION
NO SCALE:



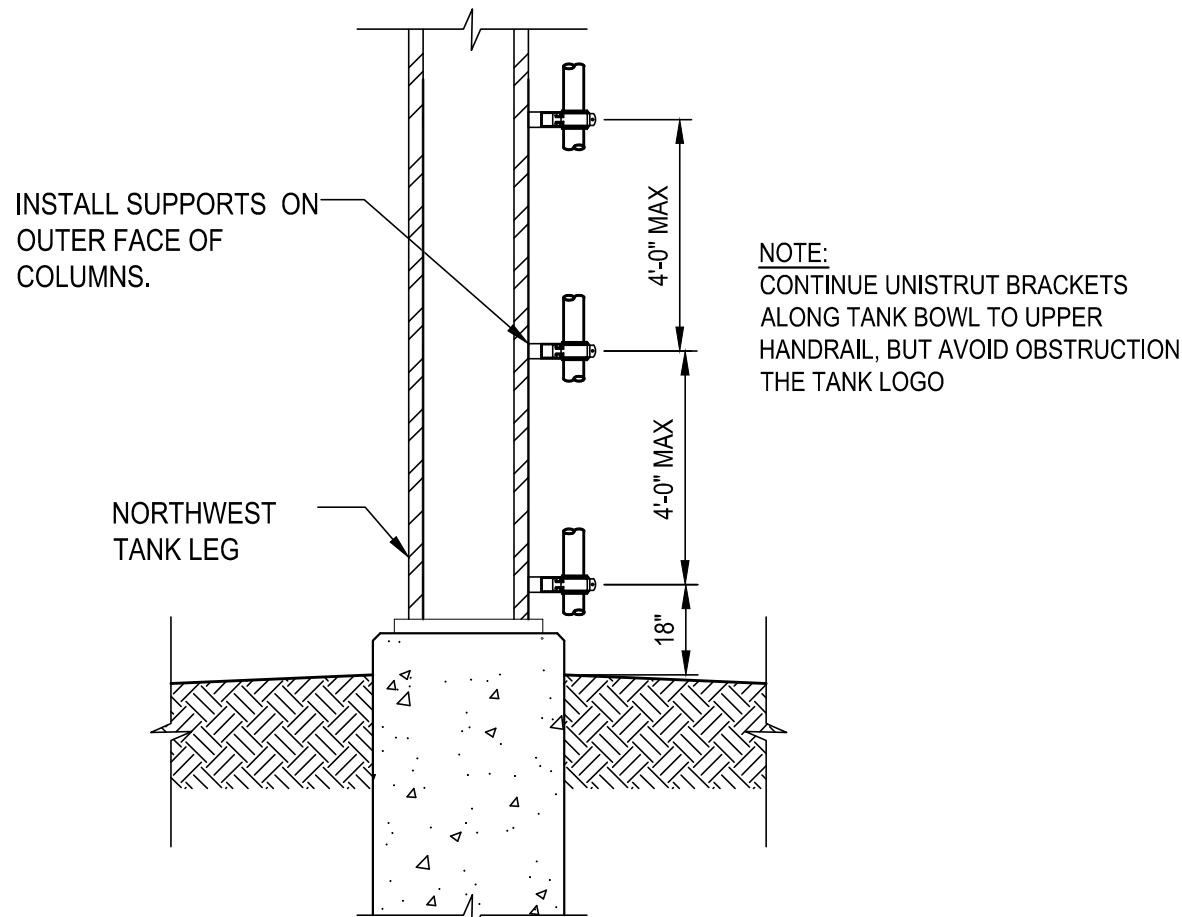
PLAN VIEW



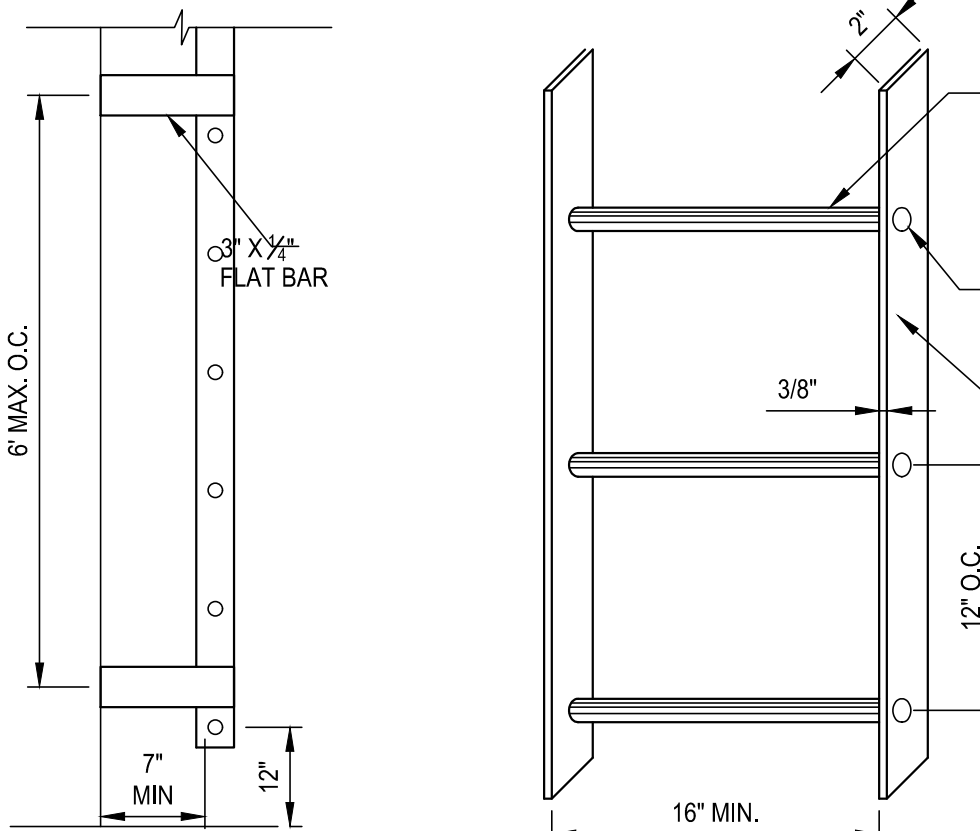
XX ANTENNA MOUNT DETAIL
NO SCALE:



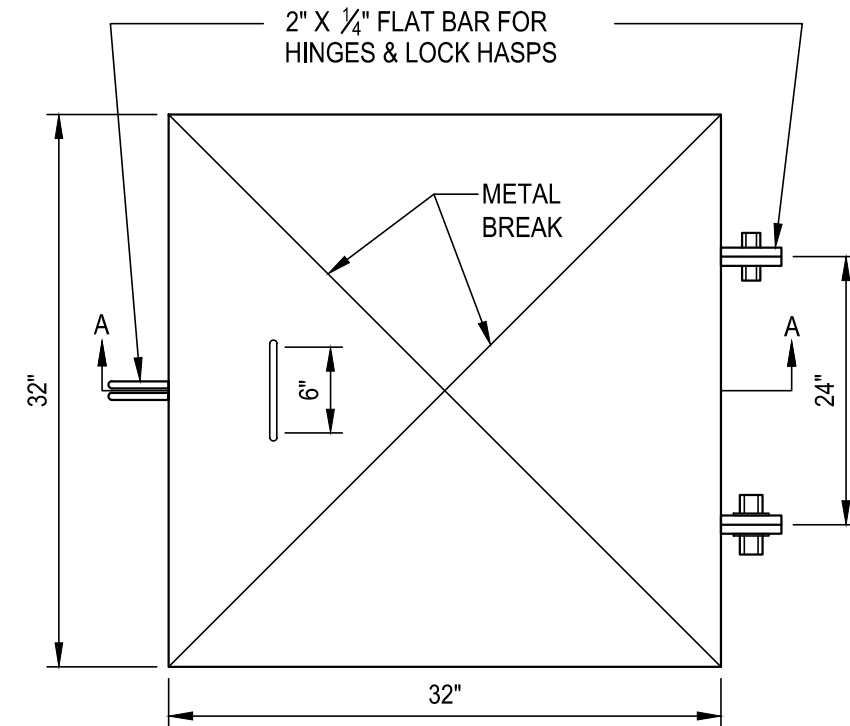
PROFILE VIEW HANDRAIL



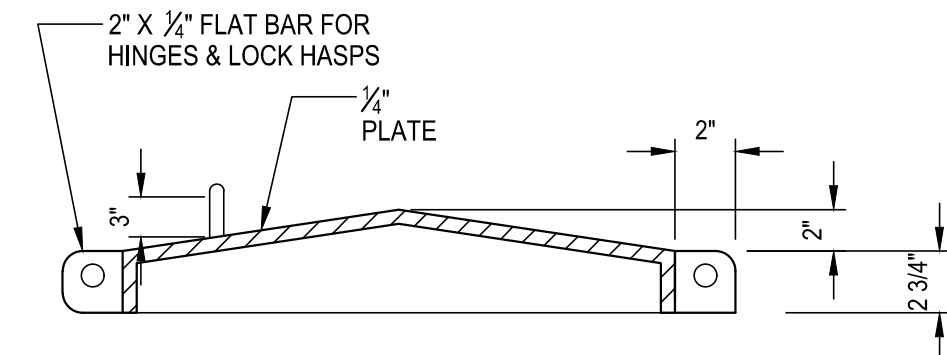
PROFILE VIEW TANK LEG



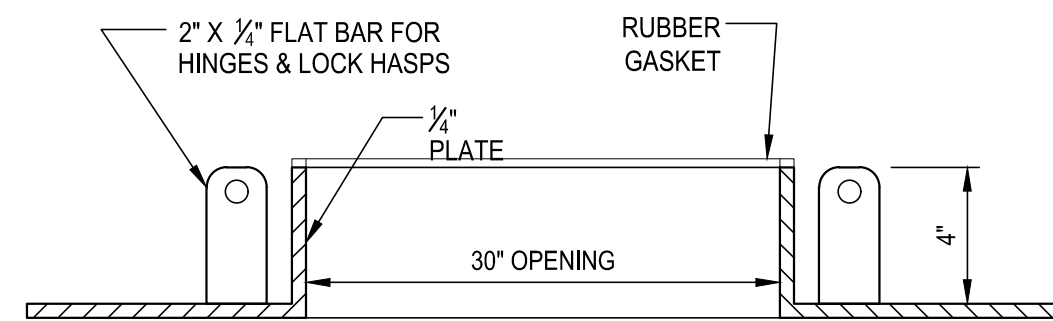
XX TYPICAL LADDER DETAILS
NO SCALE:



COVER PLAN



COVER SECTION A-A



OPENING SECTION A-A

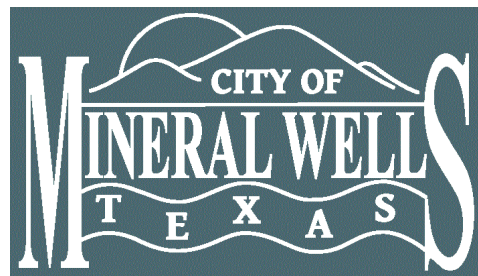
XX 30" HATCH DETAIL
NO SCALE

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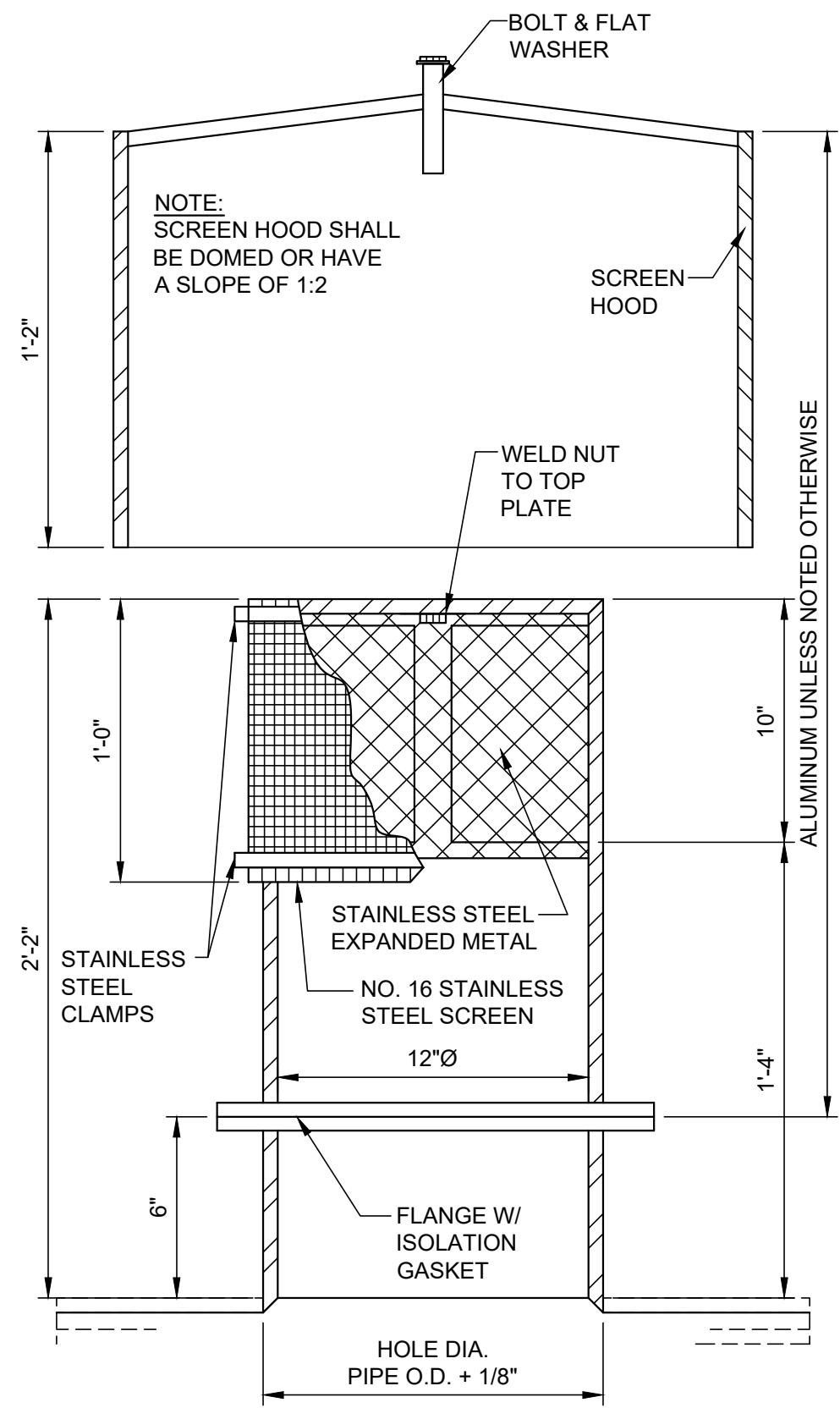
PROJECT NO.
2503.22

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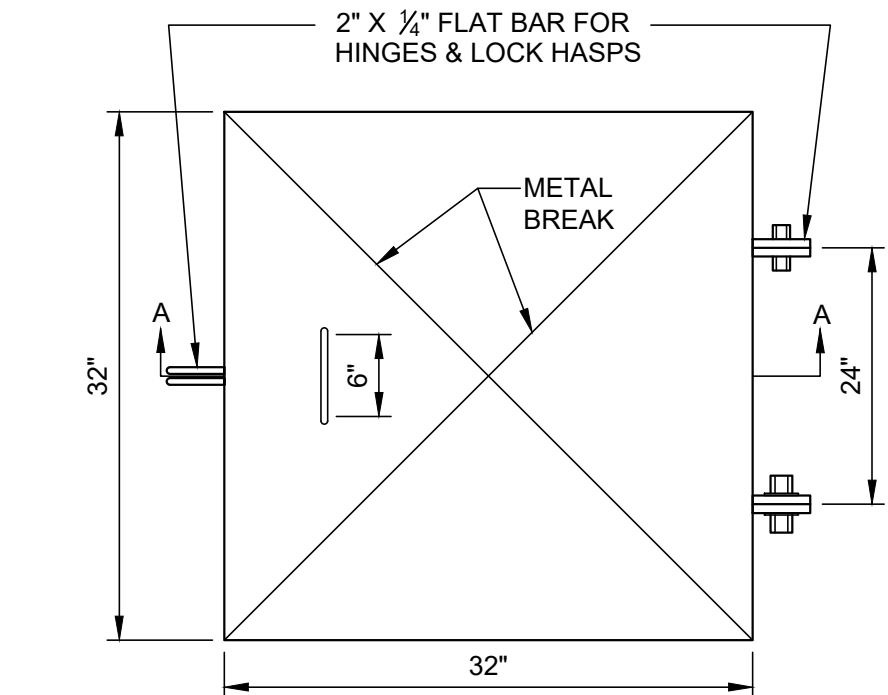
Elevated Storage
Tank Details

C-505

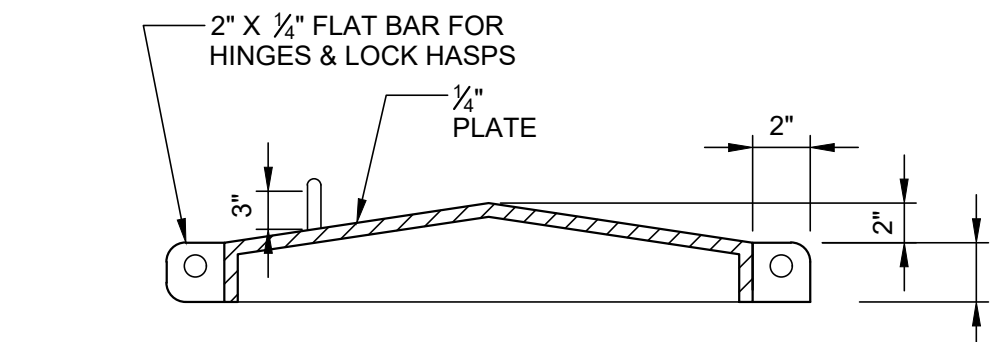
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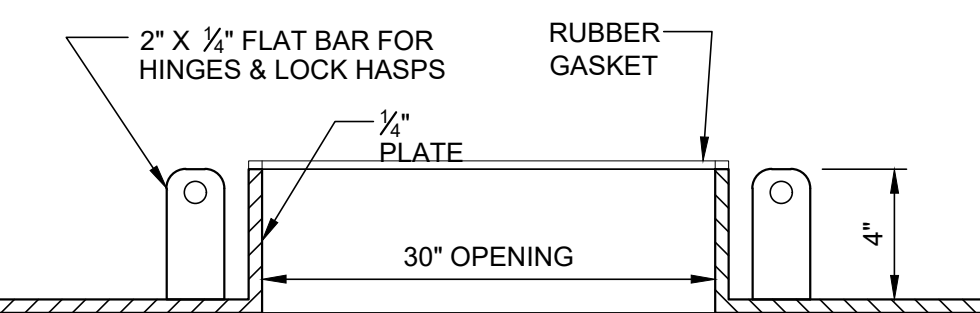
XX ROOF VENT DETAIL
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COVER PLAN

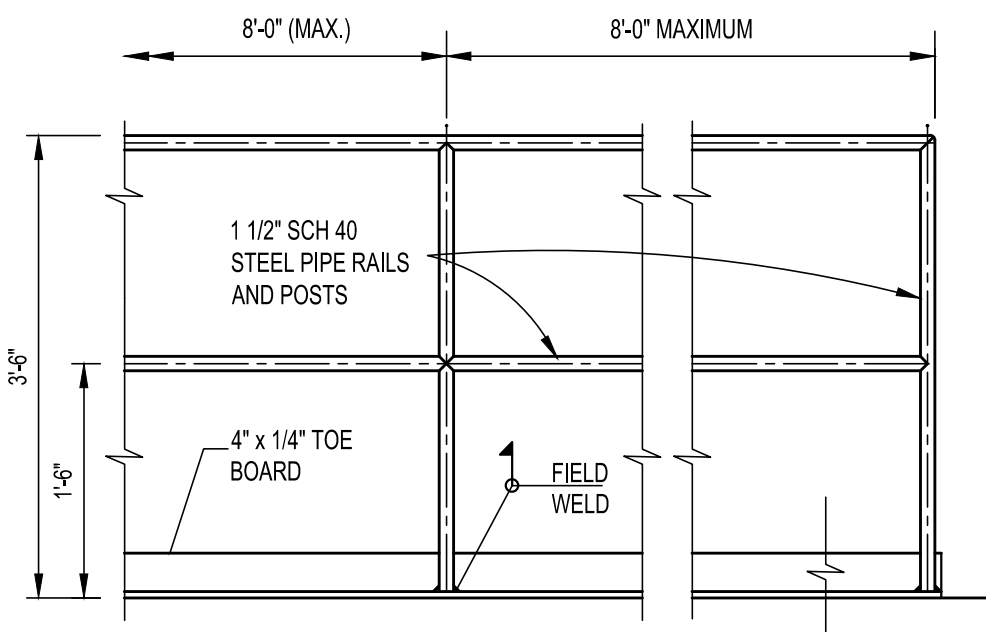


COVER SECTION A-A

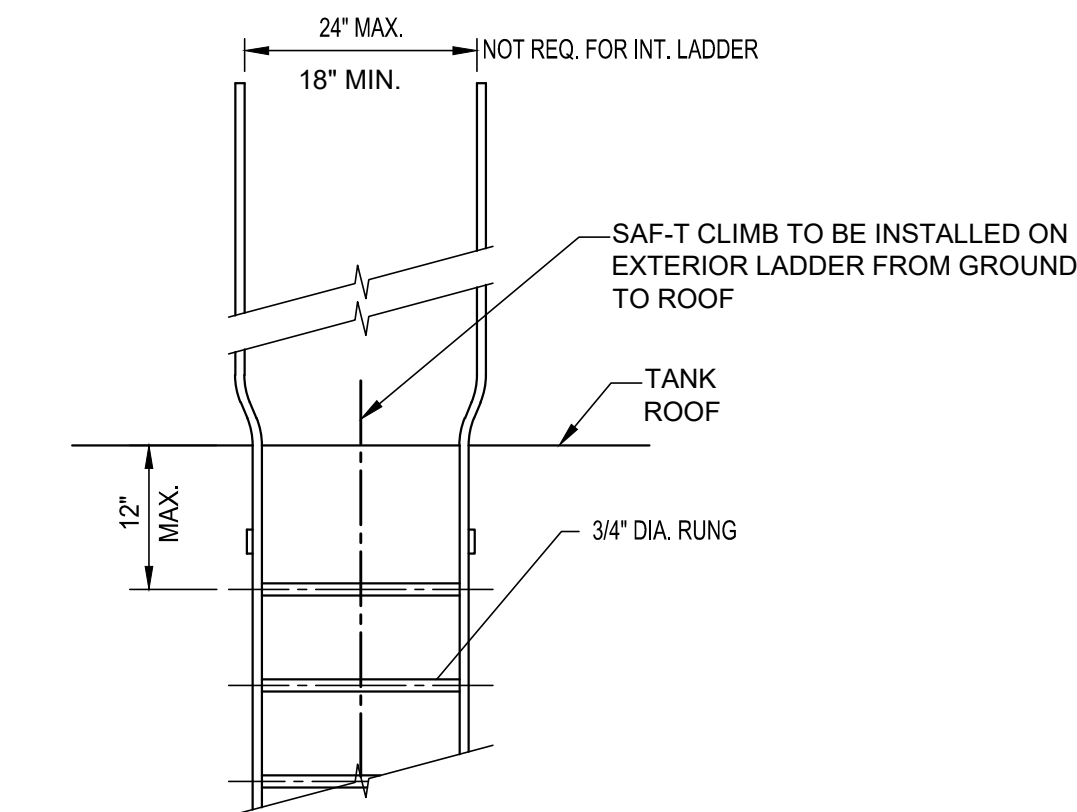


OPENING SECTION A-A

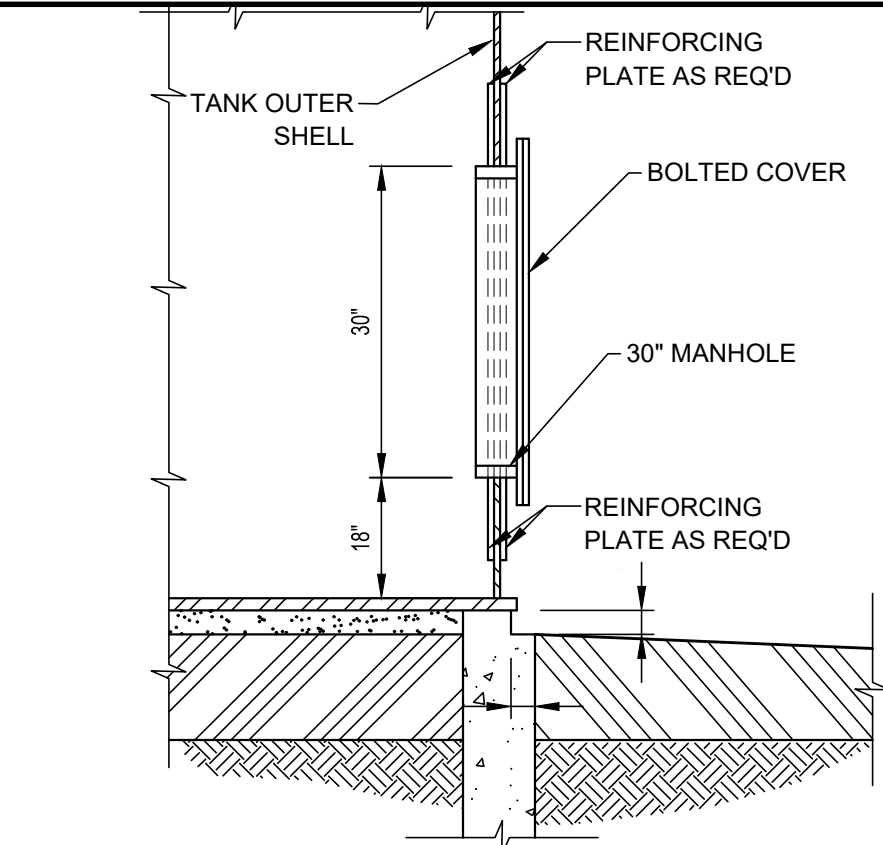
XX 30" HATCH DETAIL
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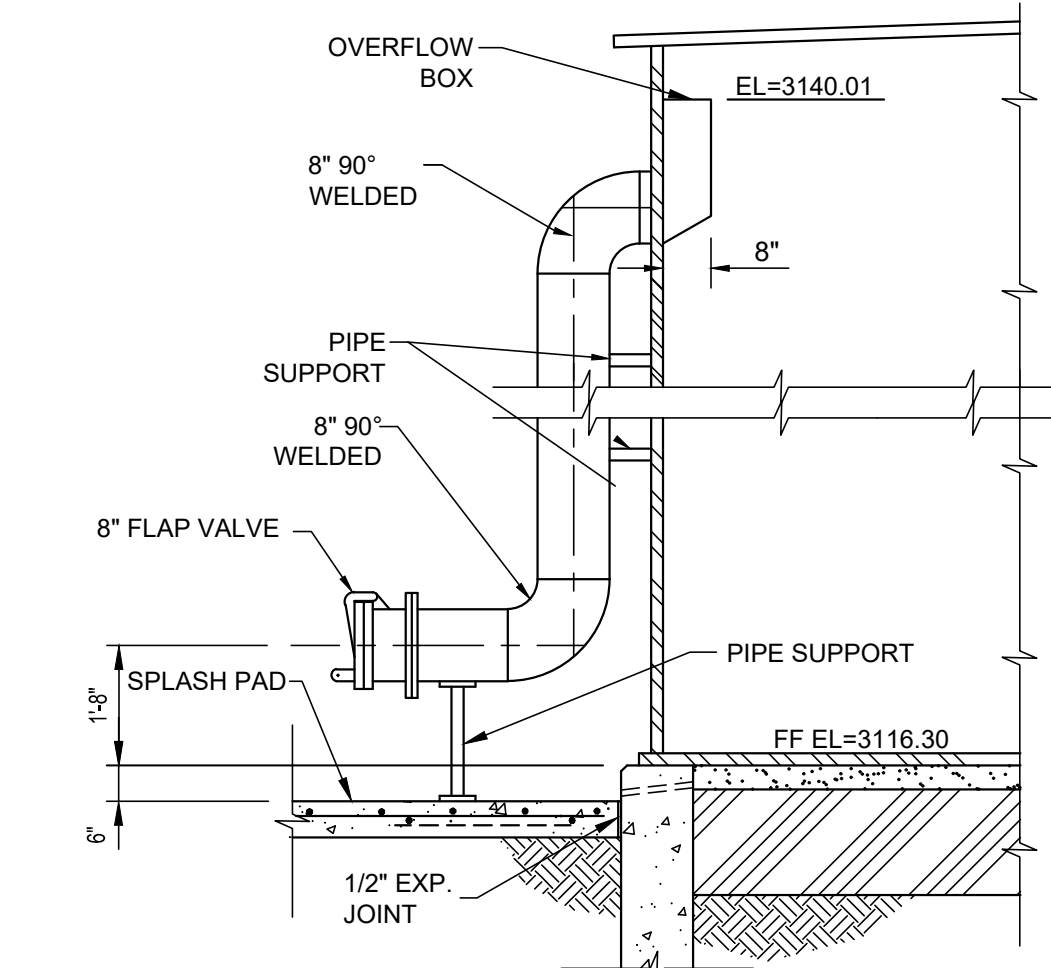
XX GUARDRAIL DETAIL
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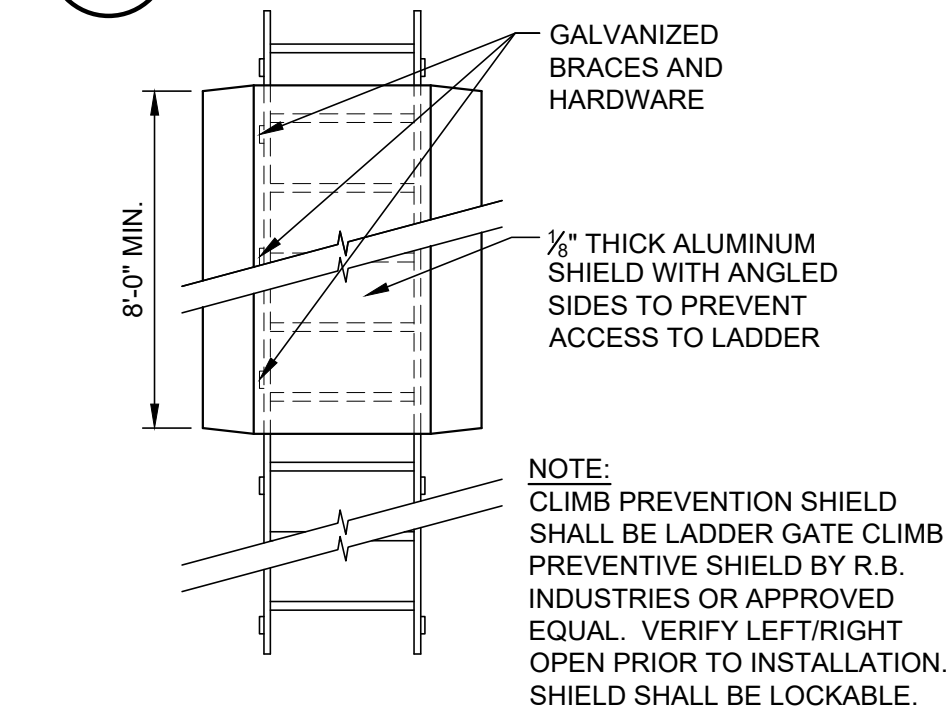
XX LADDER DETAIL
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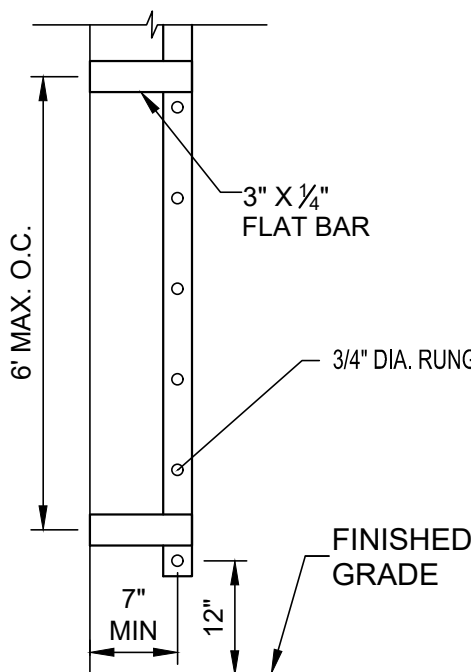
XX 30" MANHOLE DETAIL
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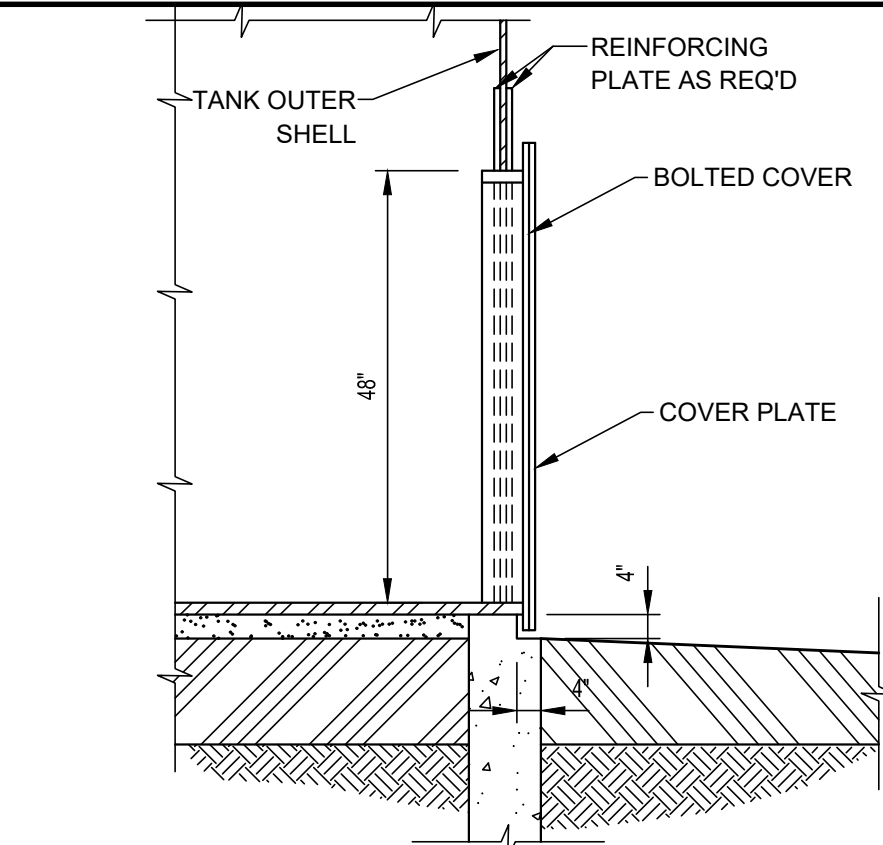
XX OVERFLOW DETAIL
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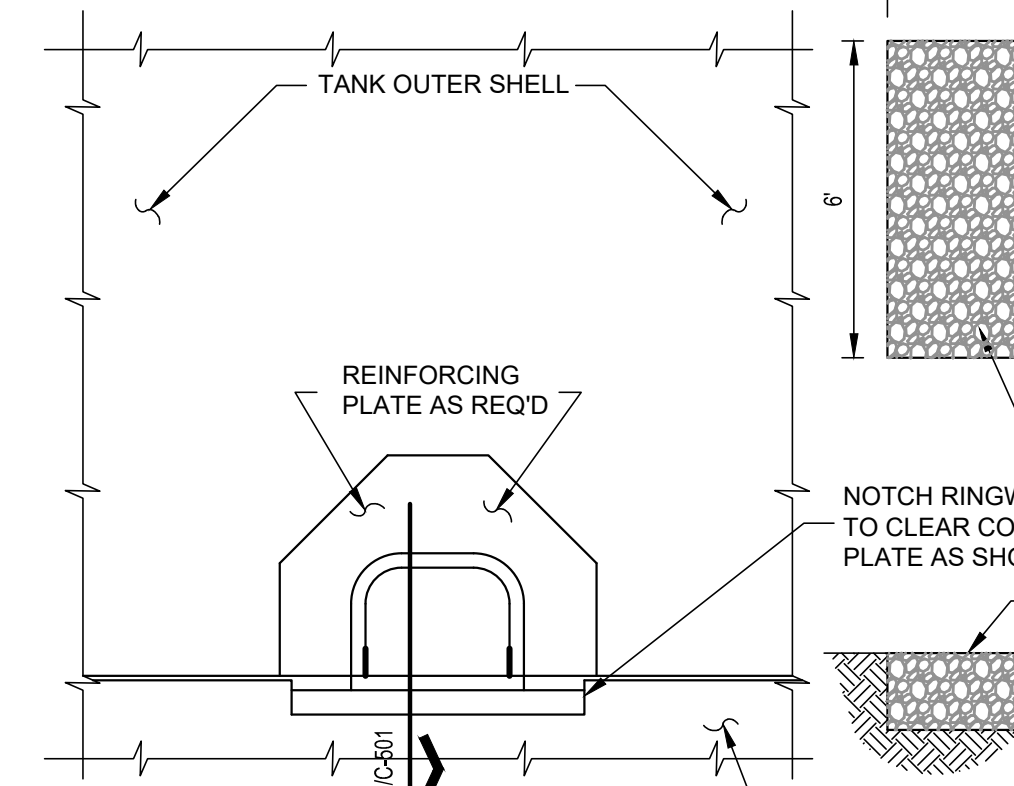
XX CLIMB PREVENTION SHIELD
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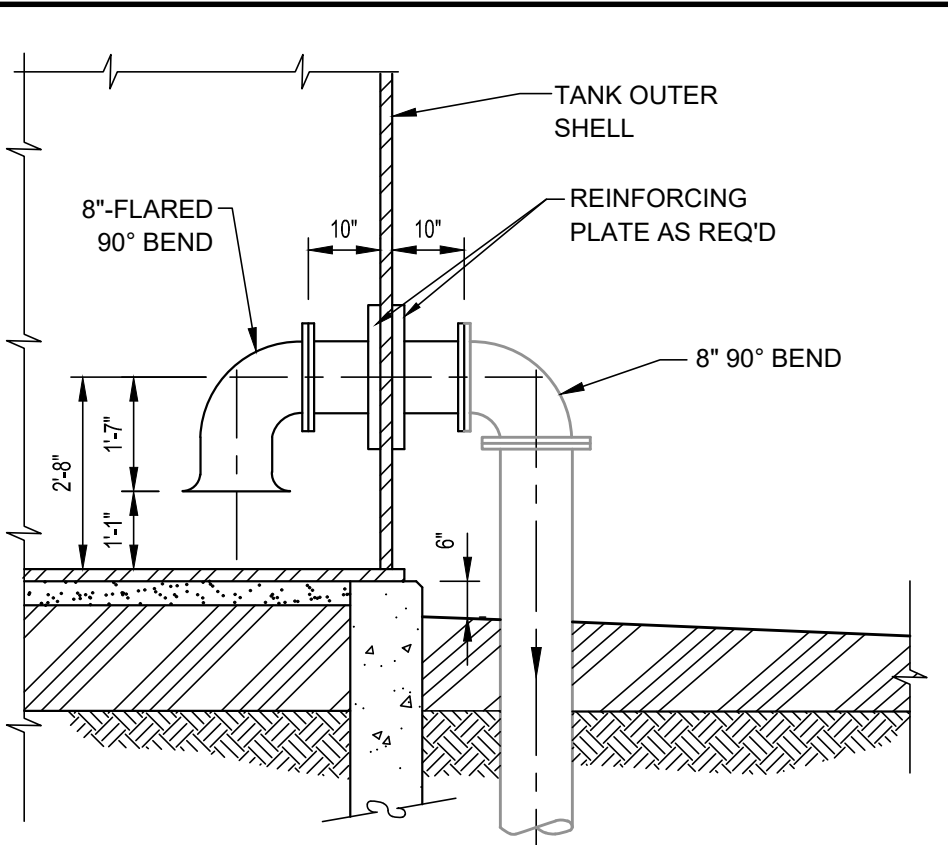
XX LADDER DETAIL
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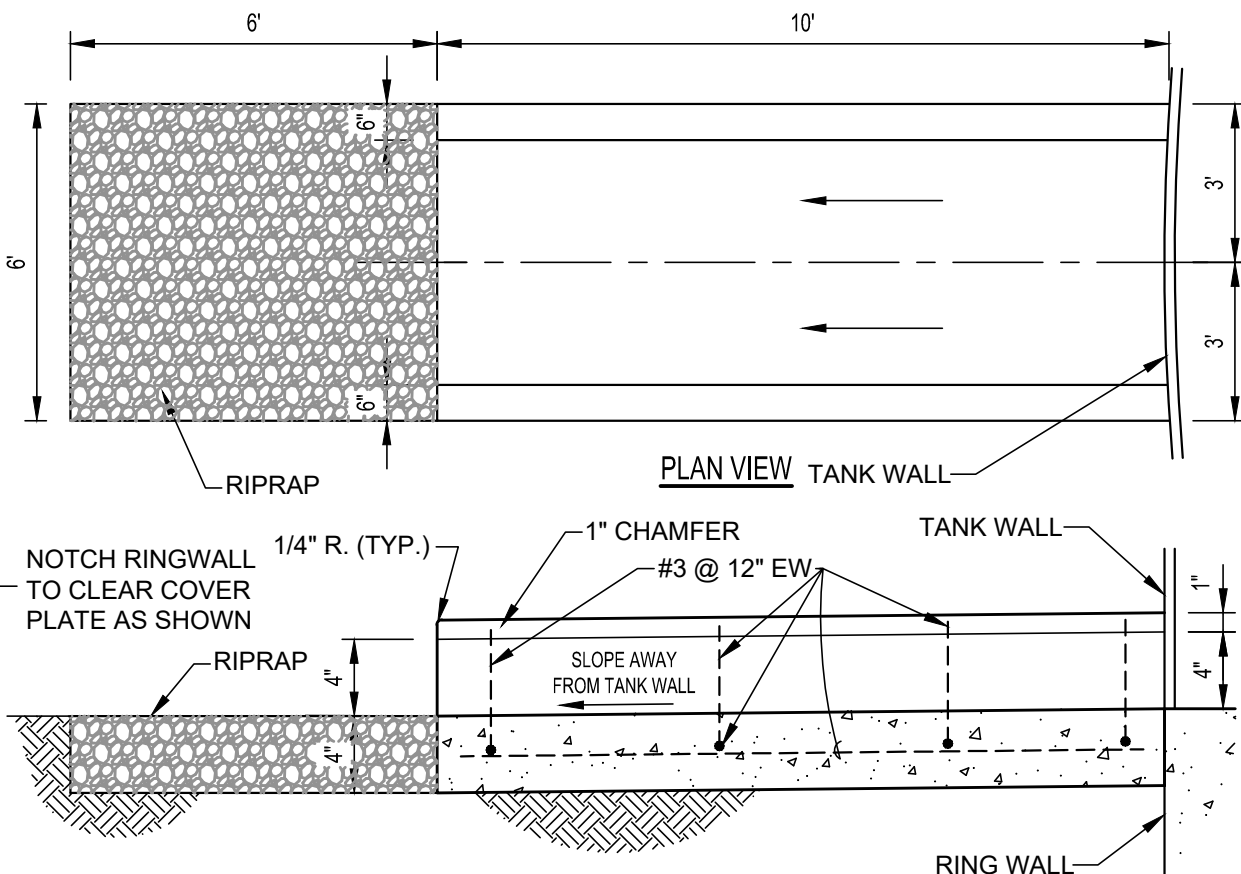
XX CLEANOUT DETAIL
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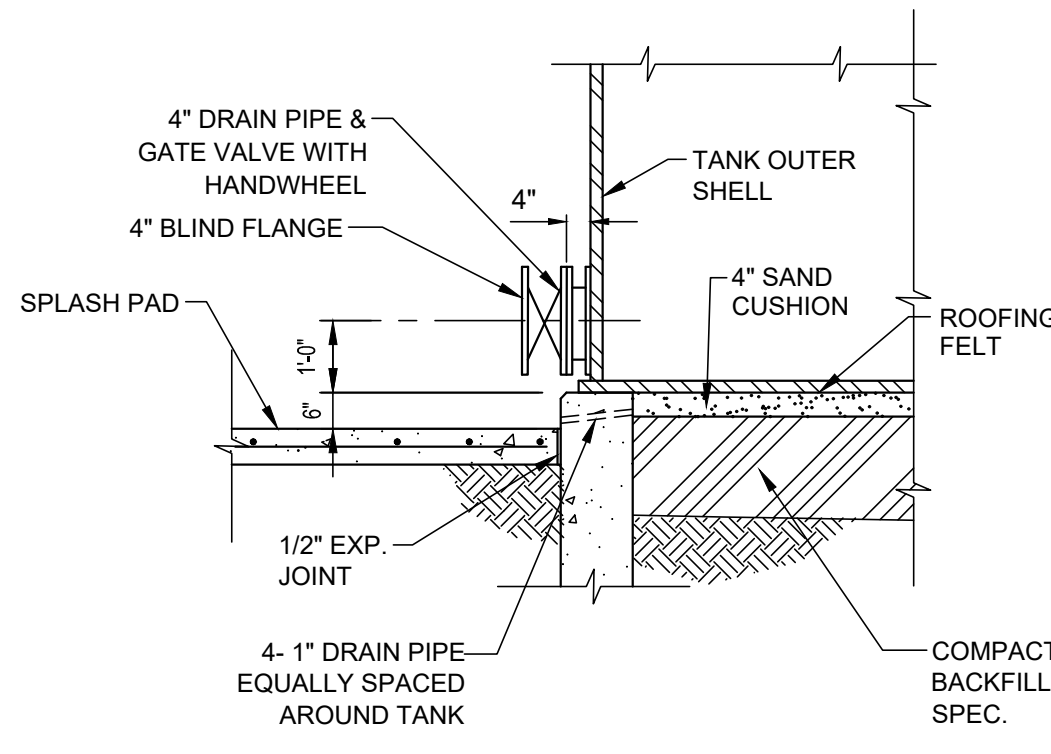
XX CLEANOUT ELEVATION
3/8"=1'-0"



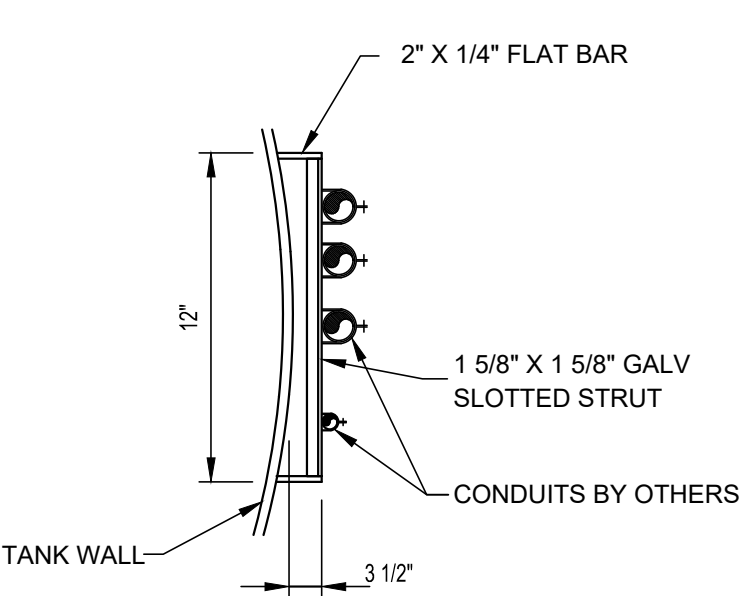
XX INLET/LOUTLET DETAIL
3/8"=1'-0"



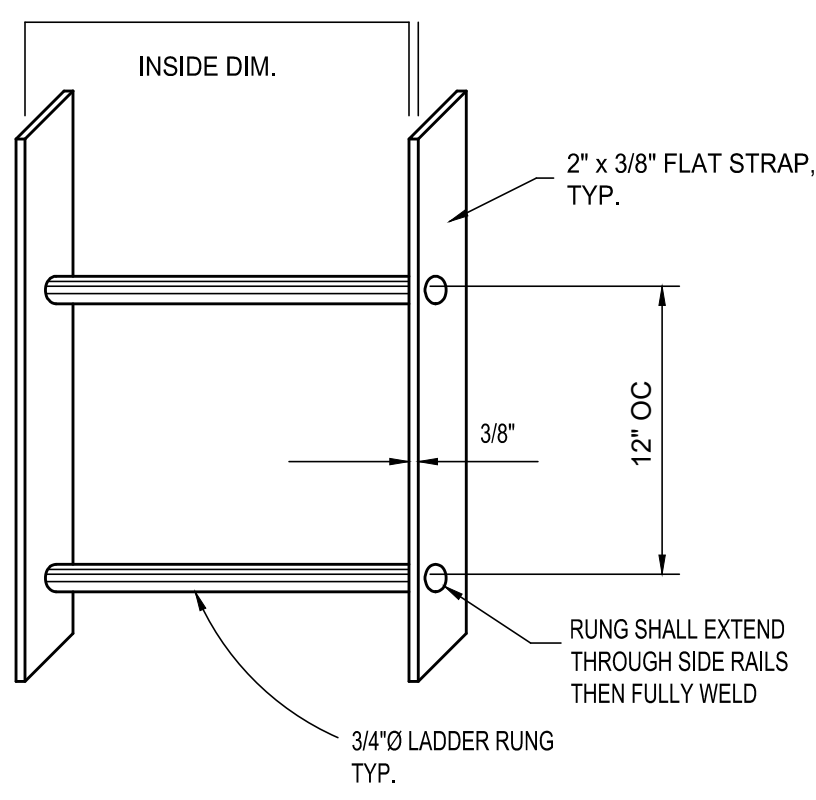
XX CONCRETE SPLASH PAD
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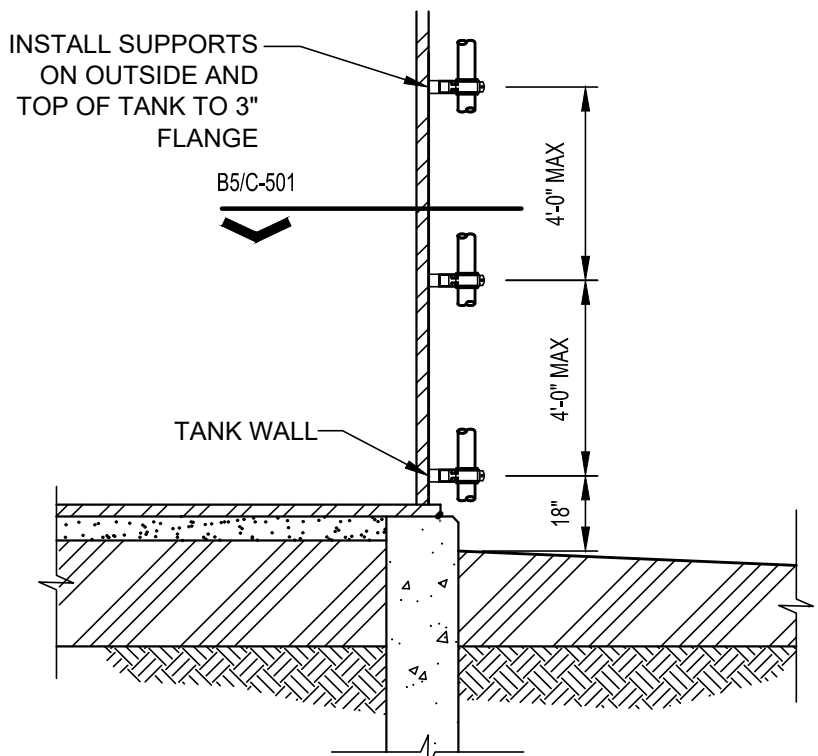
XX DRAIN DETAIL
NO SCALE



XX SECTION - TANK CONDUIT SUPPORT
NO SCALE



XX LADDER DETAIL
NO SCALE



XX TANK CONDUIT SUPPORT DETAIL
NO SCALE

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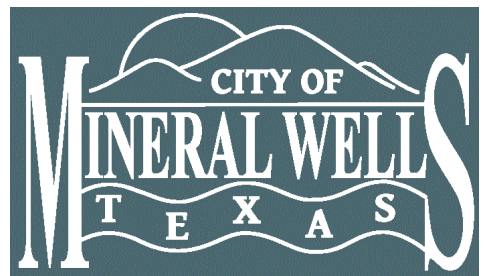
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Ground Storage
Tank Details

C-506



CLIENT
City of Mineral Wells

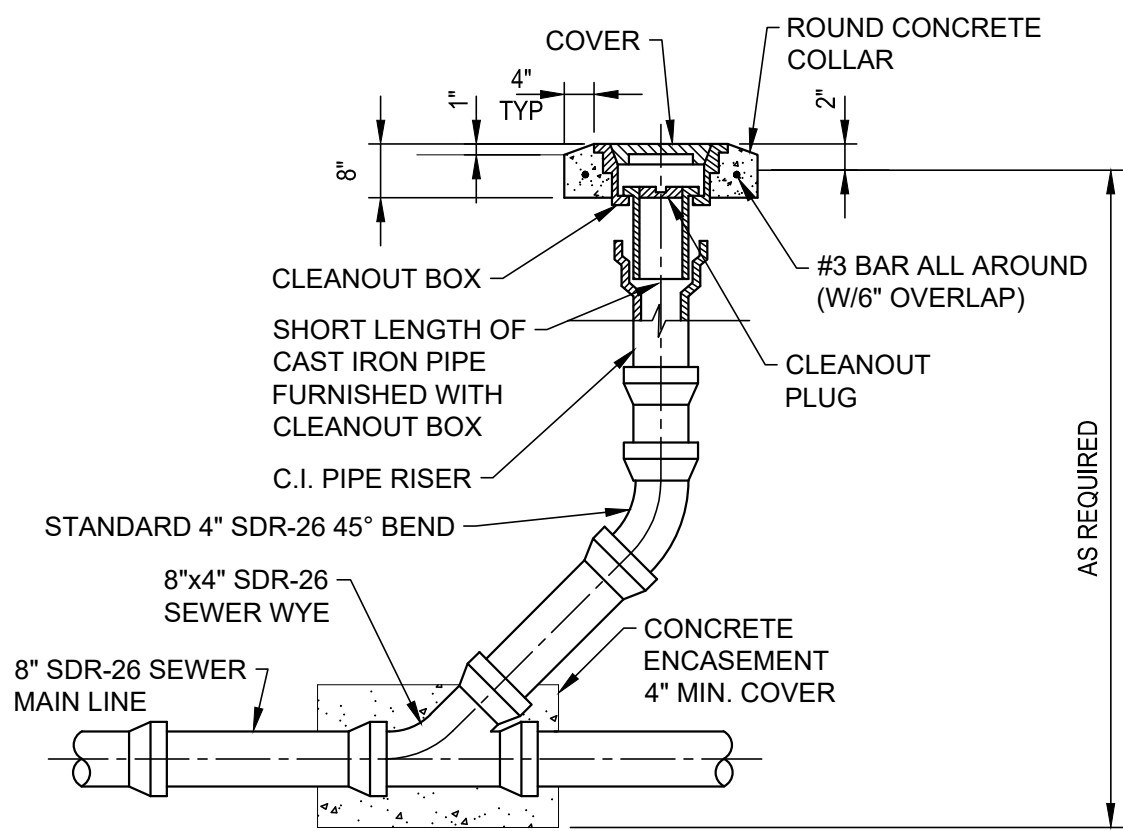
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2503.22

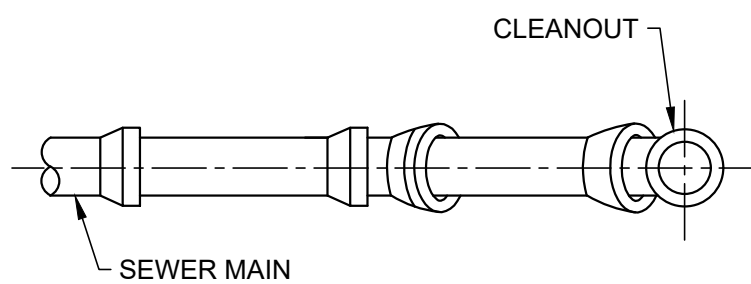
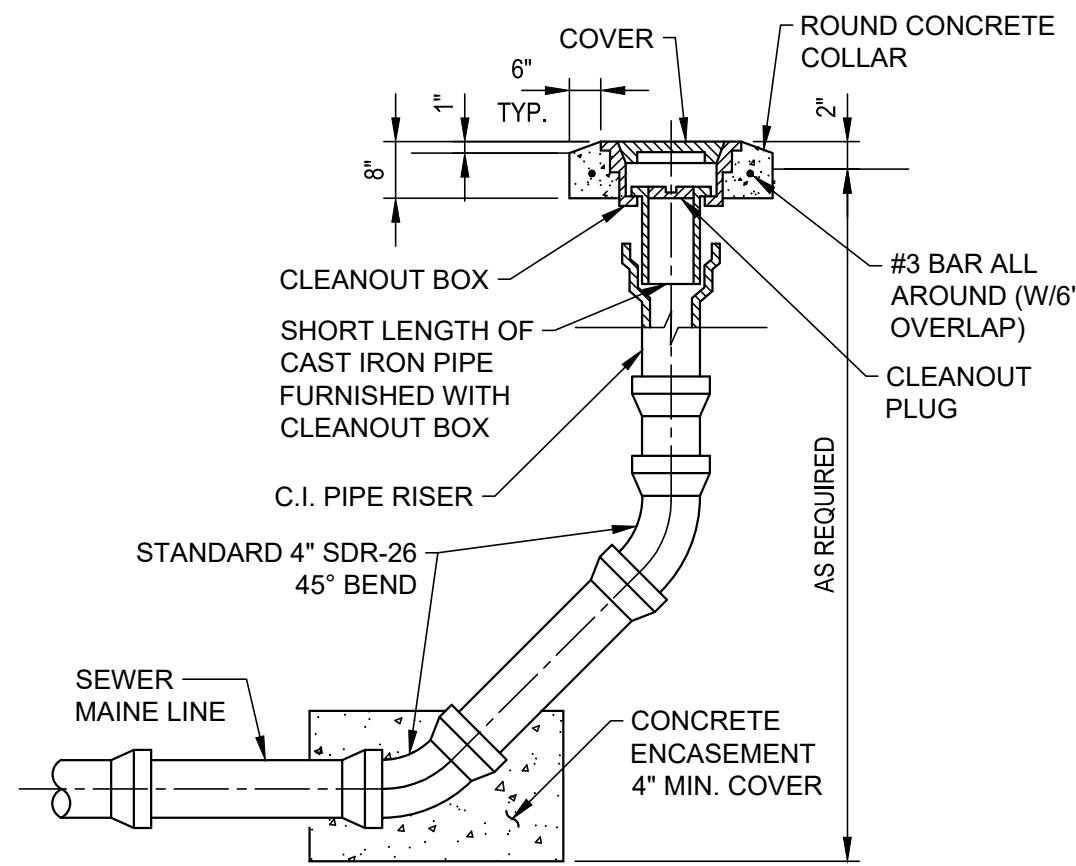
DATE DESCRIPTION

Wastewater
Details

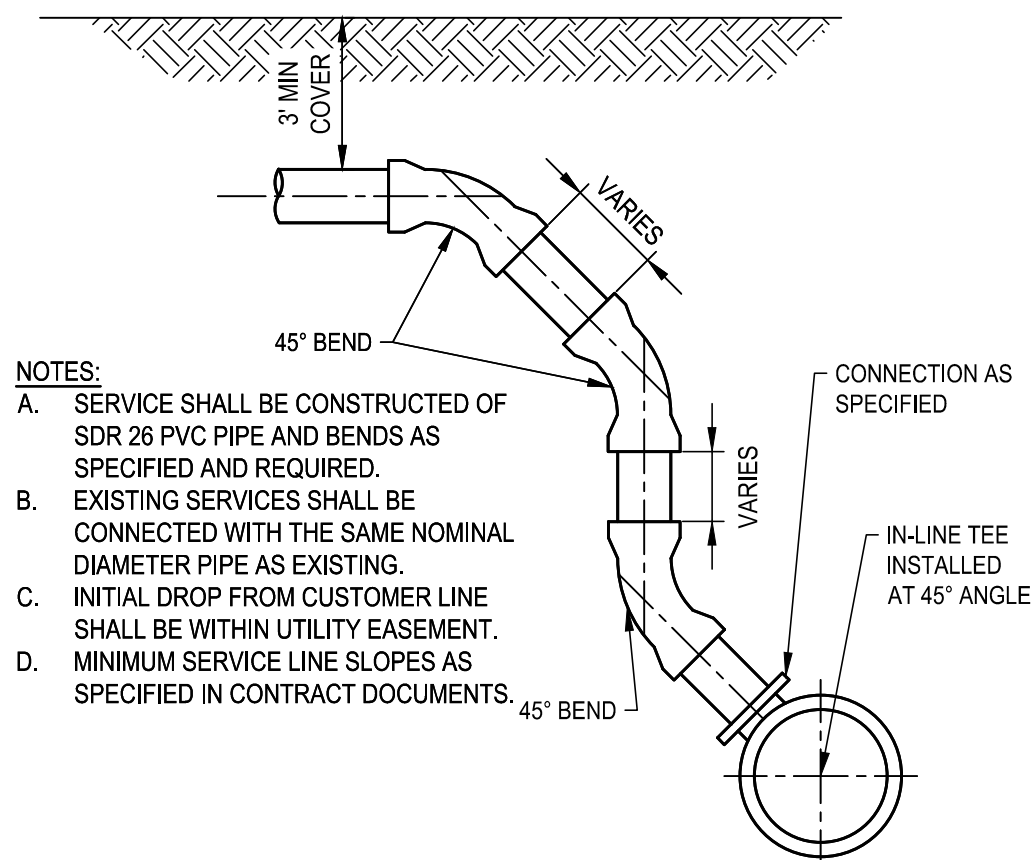
C-507



XX SINGLE CLEANOUT- INLINE
NO SCALE



XX CLEAN OUT AT PIPE END
NO SCALE



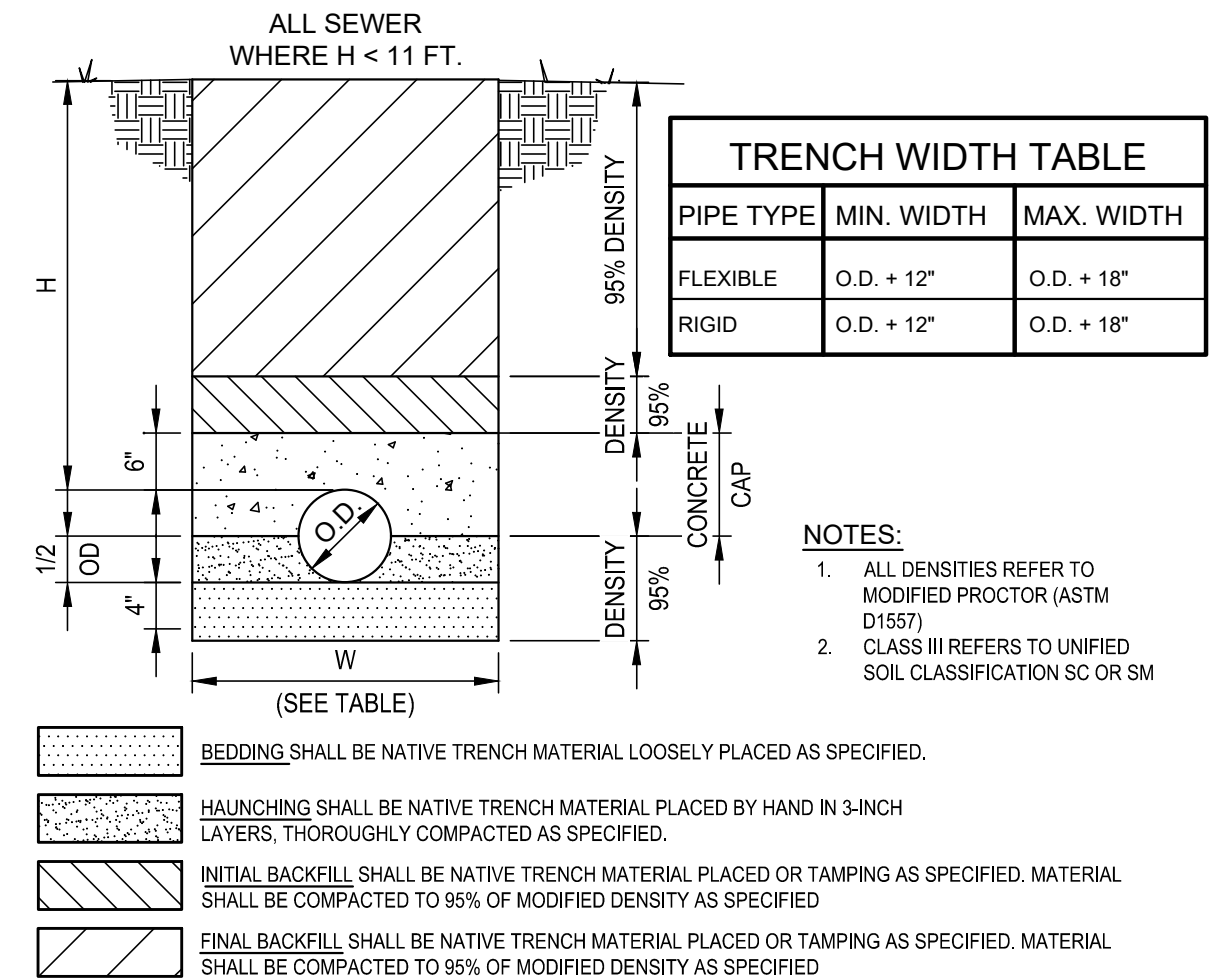
XX BRANCH/SERVICE CONNECTION
NO SCALE

- NOTES:
1. ALL DENSITIES REFER TO MODIFIED PROCTOR (ASTM 1557)
 2. CLASS III REFERS TO UNIFIED SOIL CLASSIFICATION SC OR SM
 3. INSTALL DETECTABLE AND TRACER WIRE AS SPECIFIED

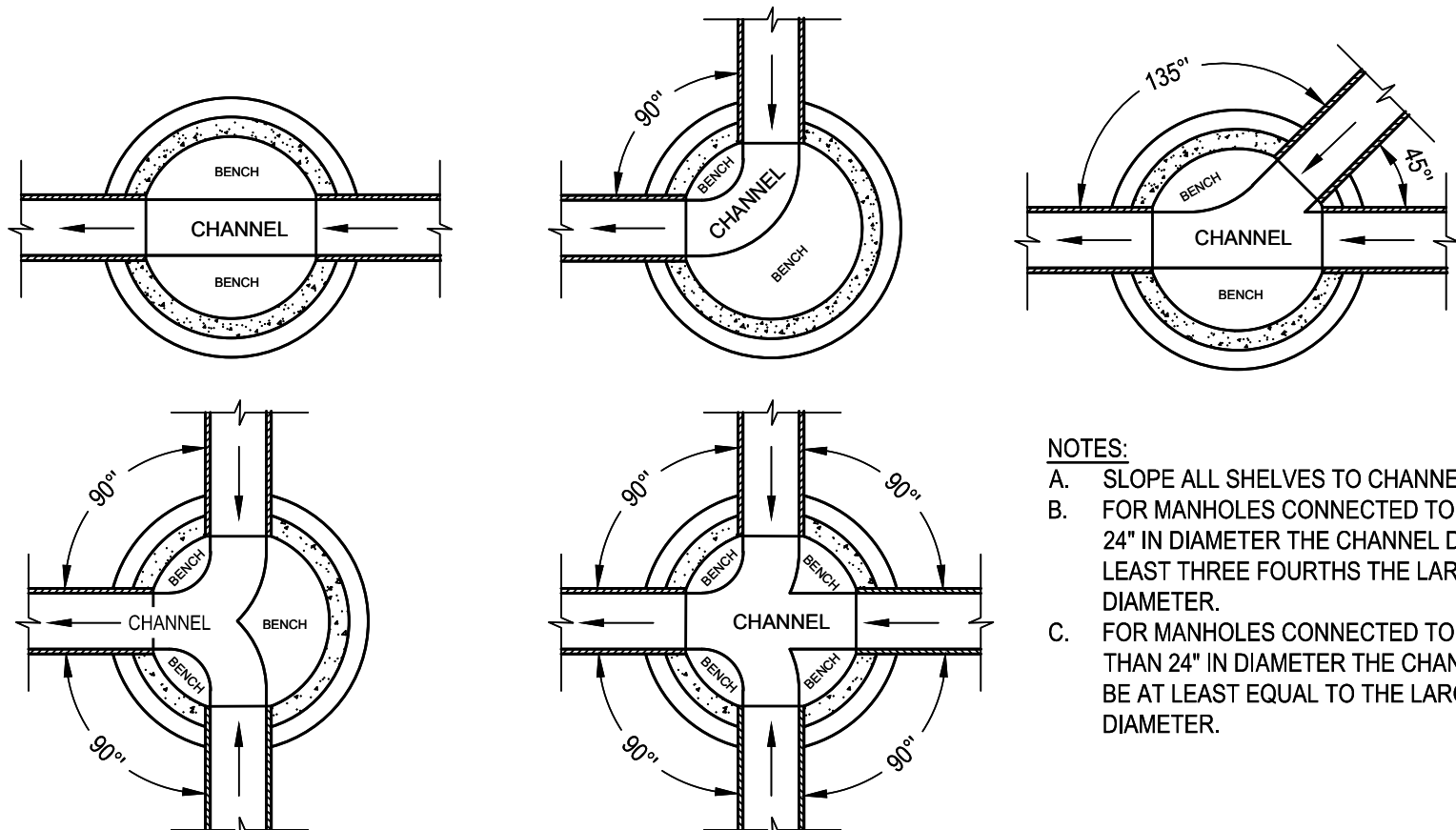
LEGEND		
BEDDING		
HAUNCHING		
INITIAL BACKFILL		
FINAL BACKFILL		

TRENCH WIDTH TABLE		
PIPE TYPE	MIN. WIDTH	MAX. WIDTH
FLEXIBLE	O.D. + 12"	O.D. + 18"
RIGID	O.D. + 12"	O.D. + 18"

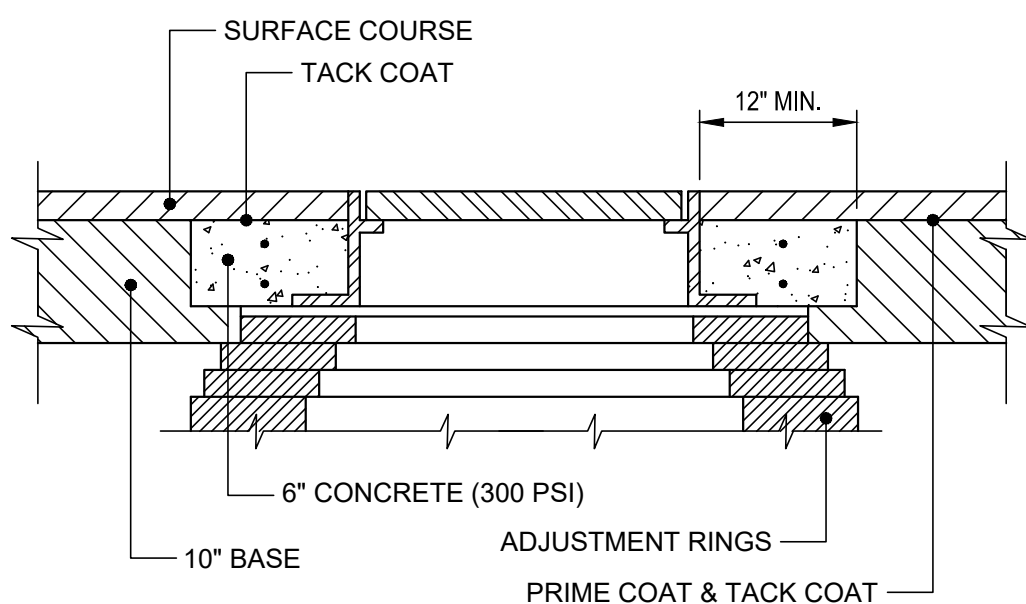
XX TRENCH DETAIL
SEWER TRENCH DETAIL
NO SCALE



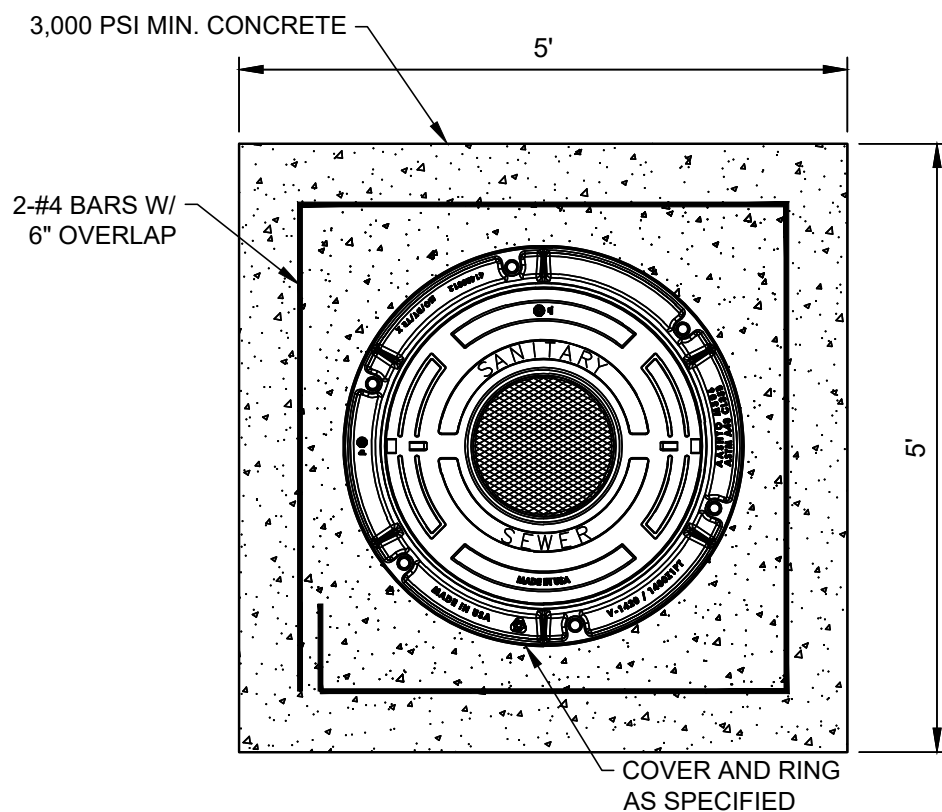
XX TRENCH DETAIL W/ CONCRETE CAP
TRENCH DETAILS
NO SCALE



XX TYPICAL MANHOLE CHANNEL DETAIL
NOT TO SCALE



XX MANHOLE RING
ADJUSTMENT DETAIL
NO SCALE



XX MANHOLE COVER AND RING
NO SCALE



City of Mineral Wells

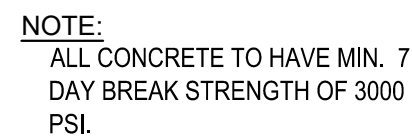
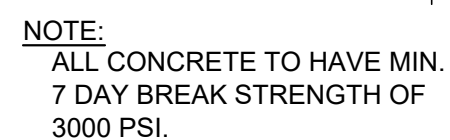
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2503.22

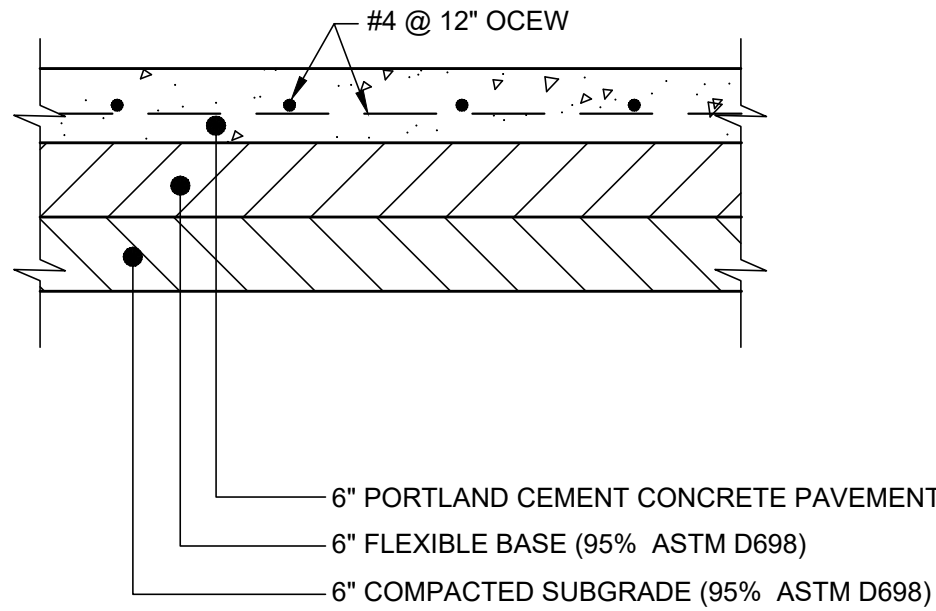
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Wastewater Details

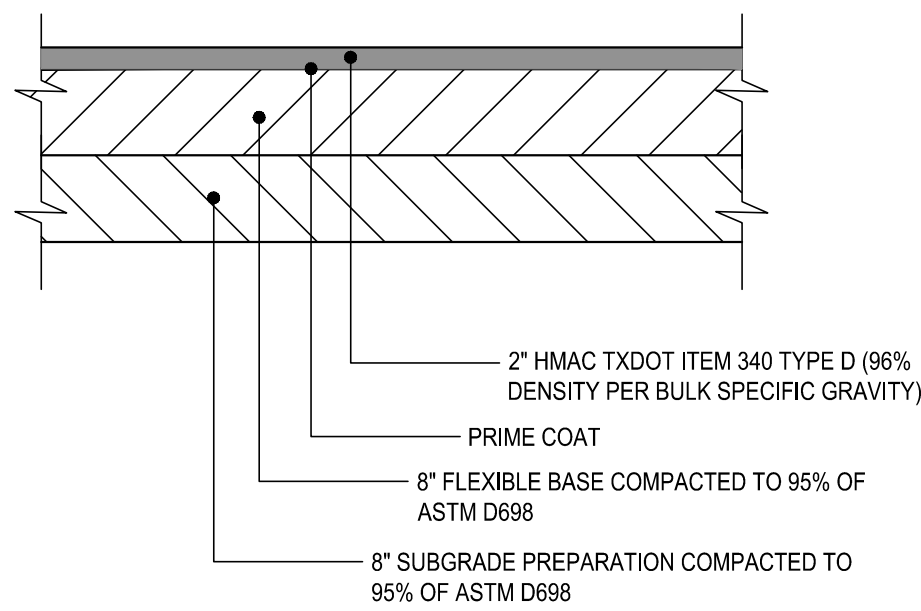
C-508



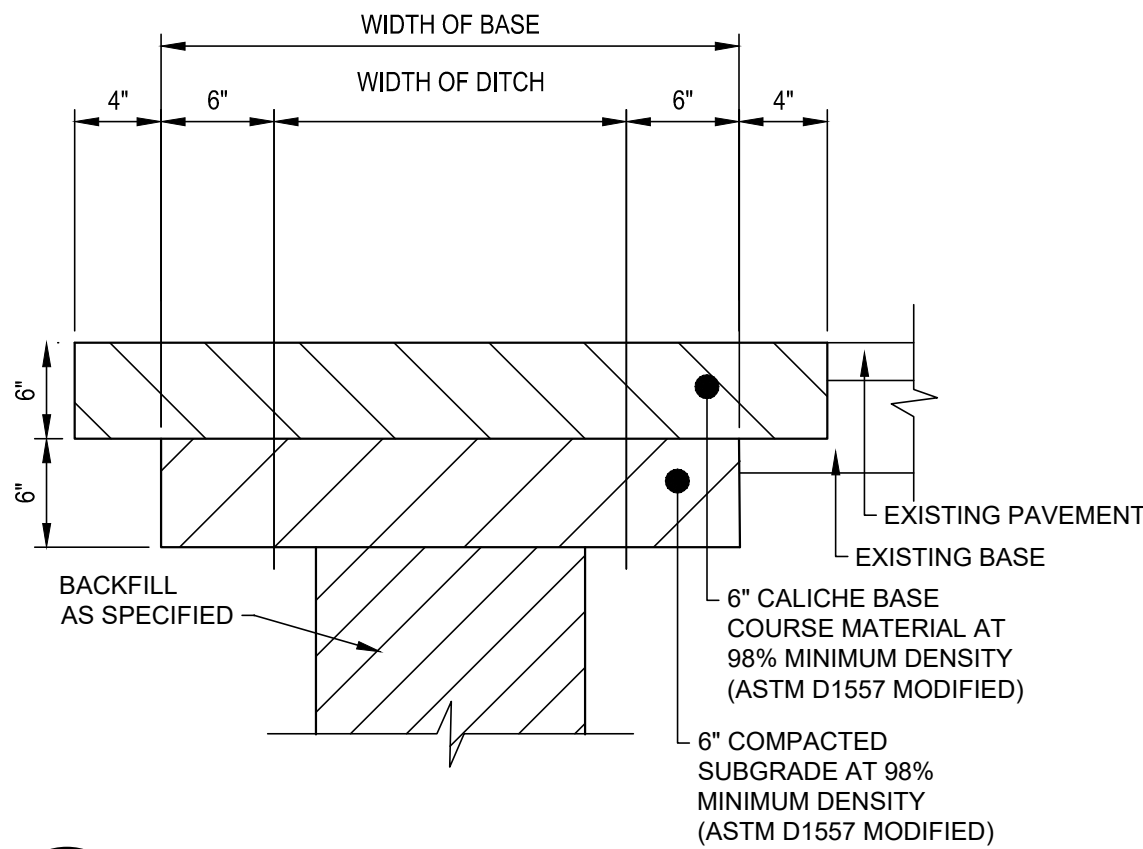
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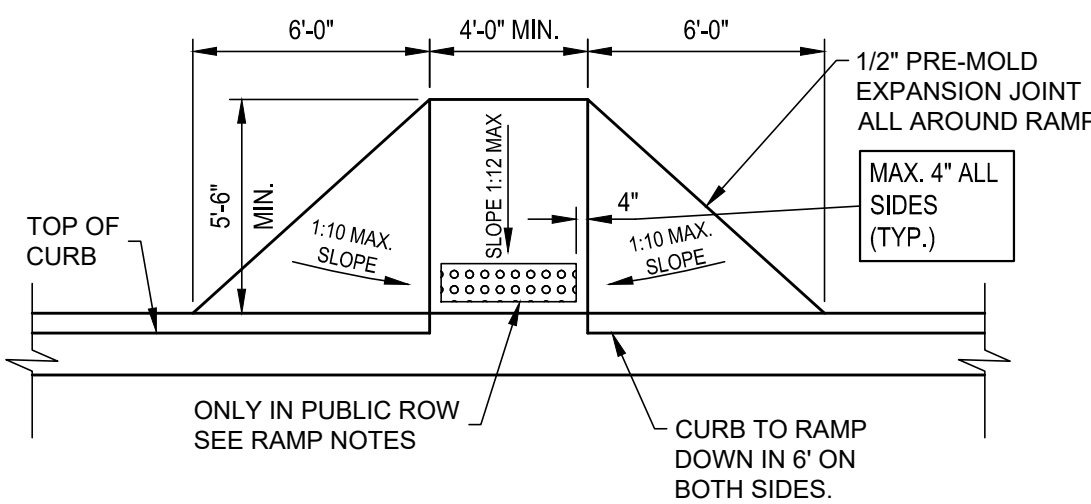
XX TYP CONCRETE PAVEMENT SECTION
NO SCALE



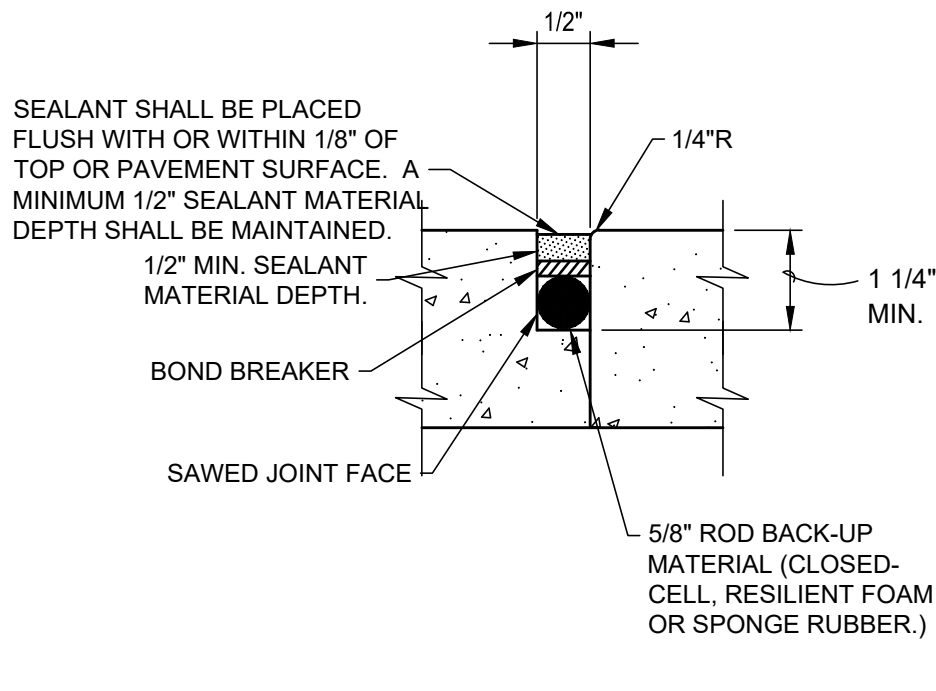
XX TYP ASPHALT PAVEMENT SECTION
NO SCALE



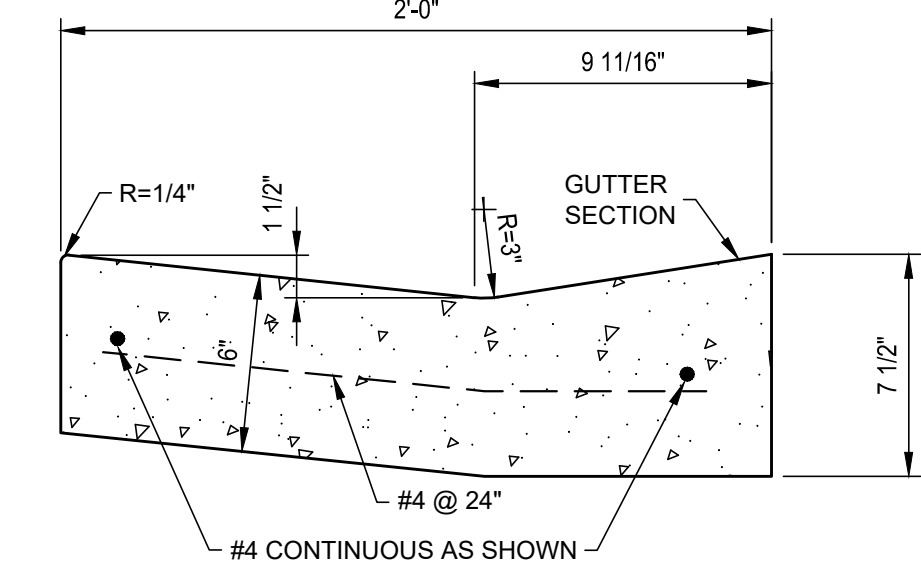
XX REMOVE AND REPLACE CALICHE ROAD
NO SCALE



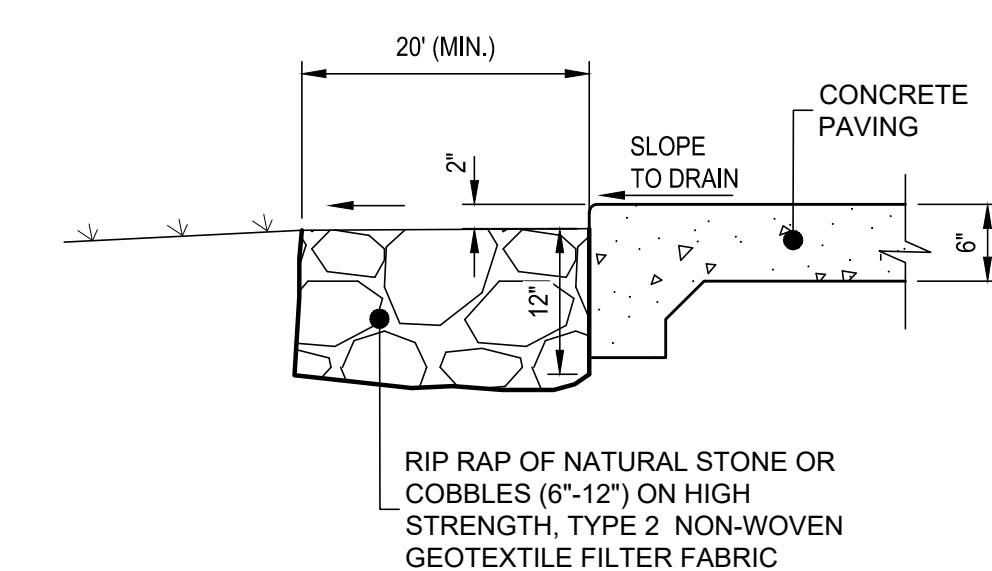
XX STANDARD ACCESSIBLE RAMP
NO SCALE



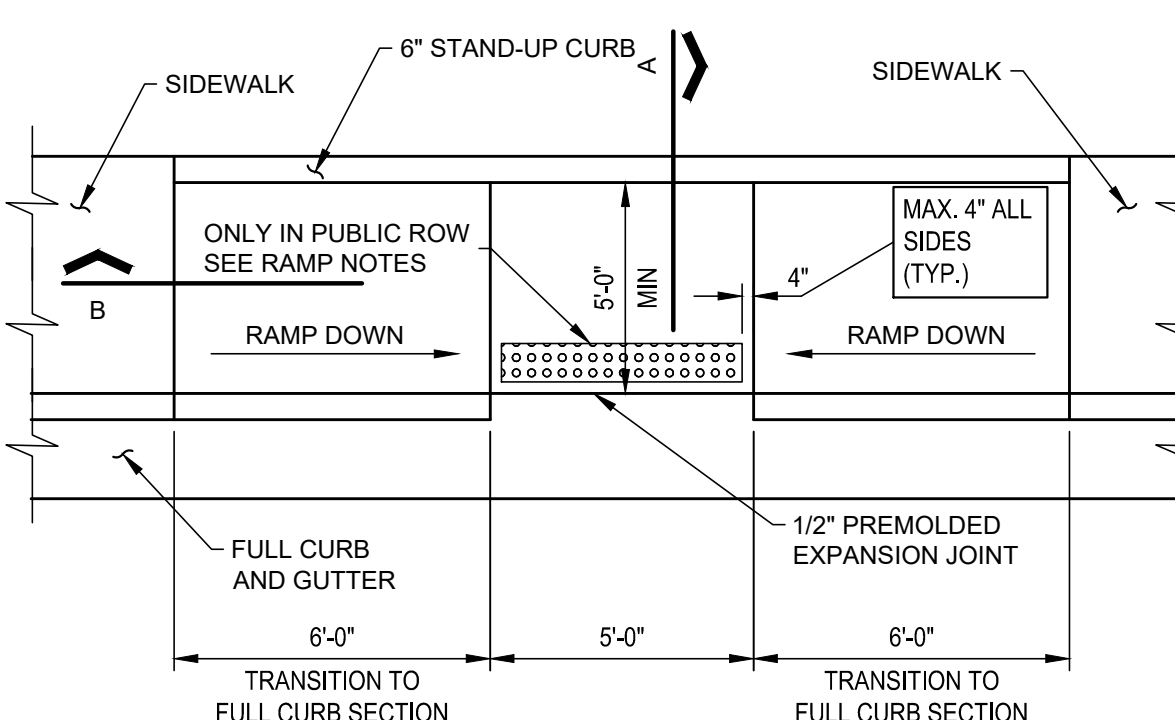
XX CONSTRUCTION JOINT (PAVEMENT)
NO SCALE



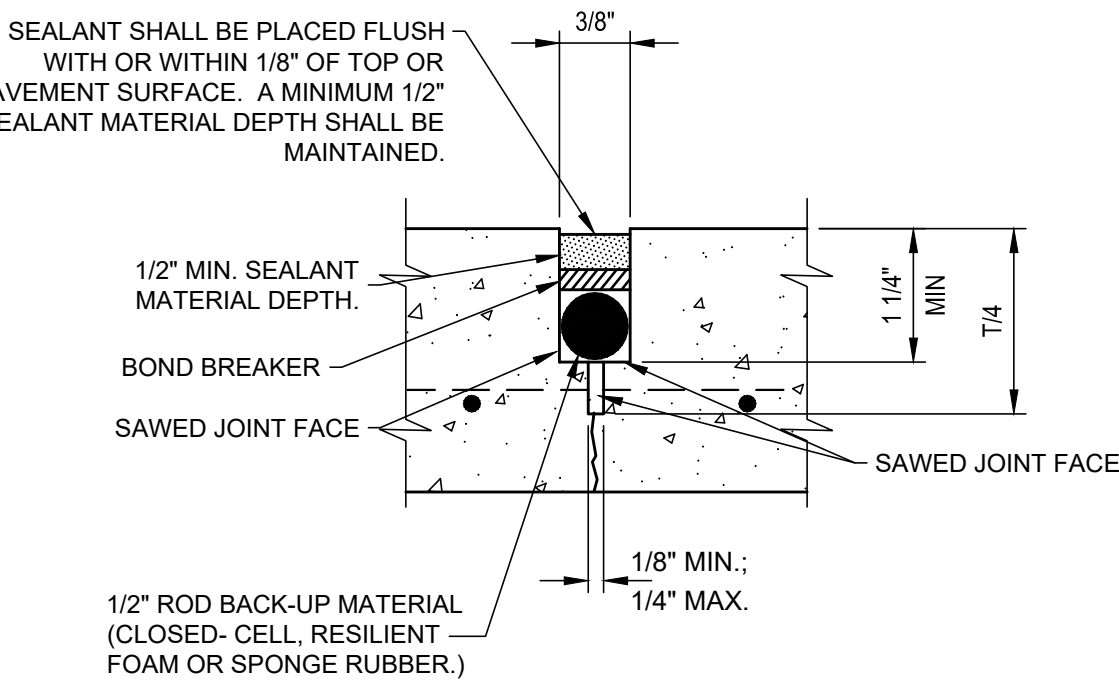
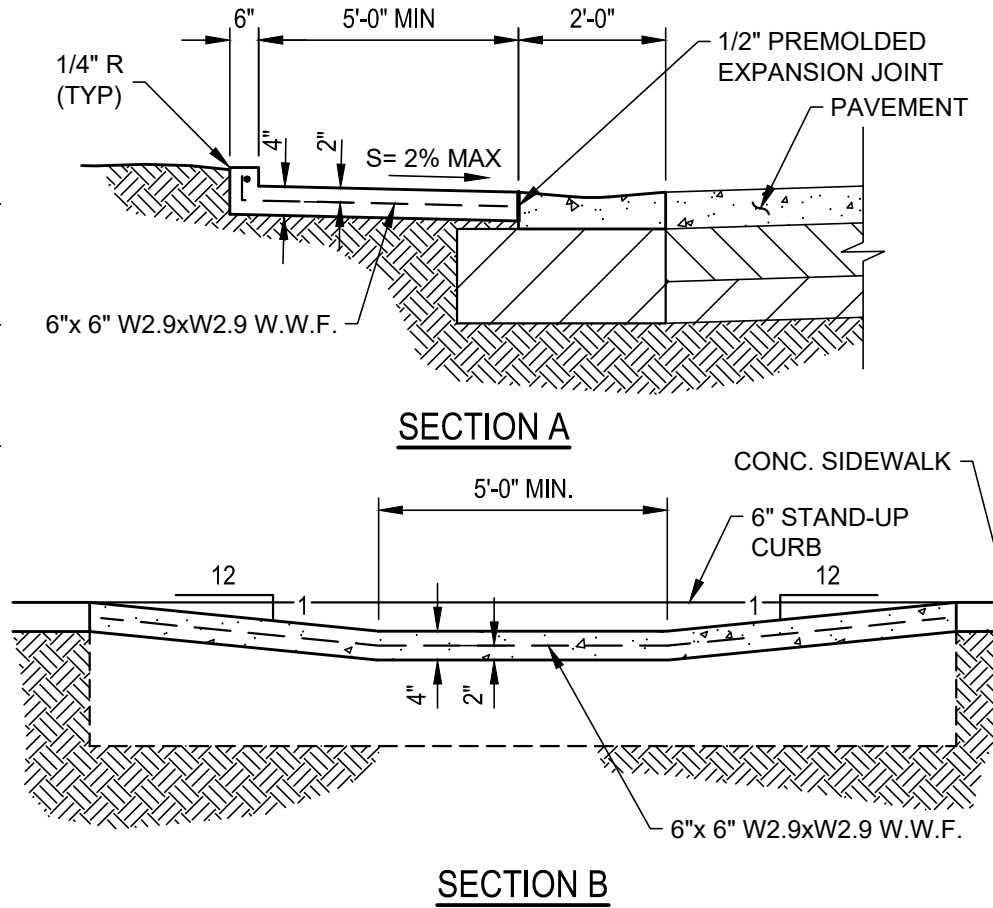
XX 24" LAYDOWN CURB AND GUTTER
NO SCALE



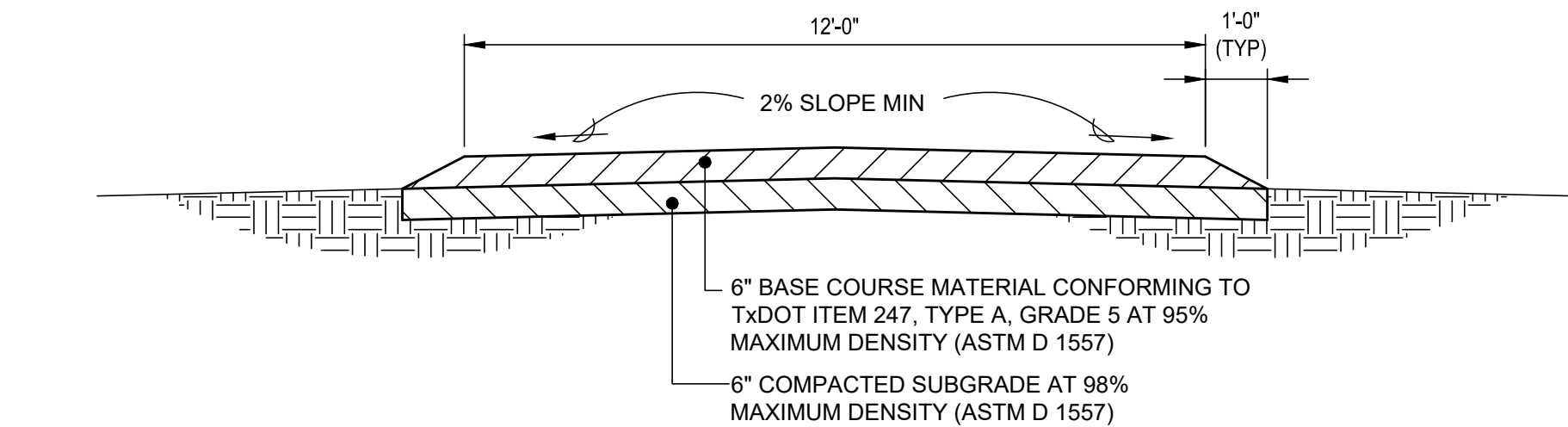
XX ROCK RIP RAP
NO SCALE



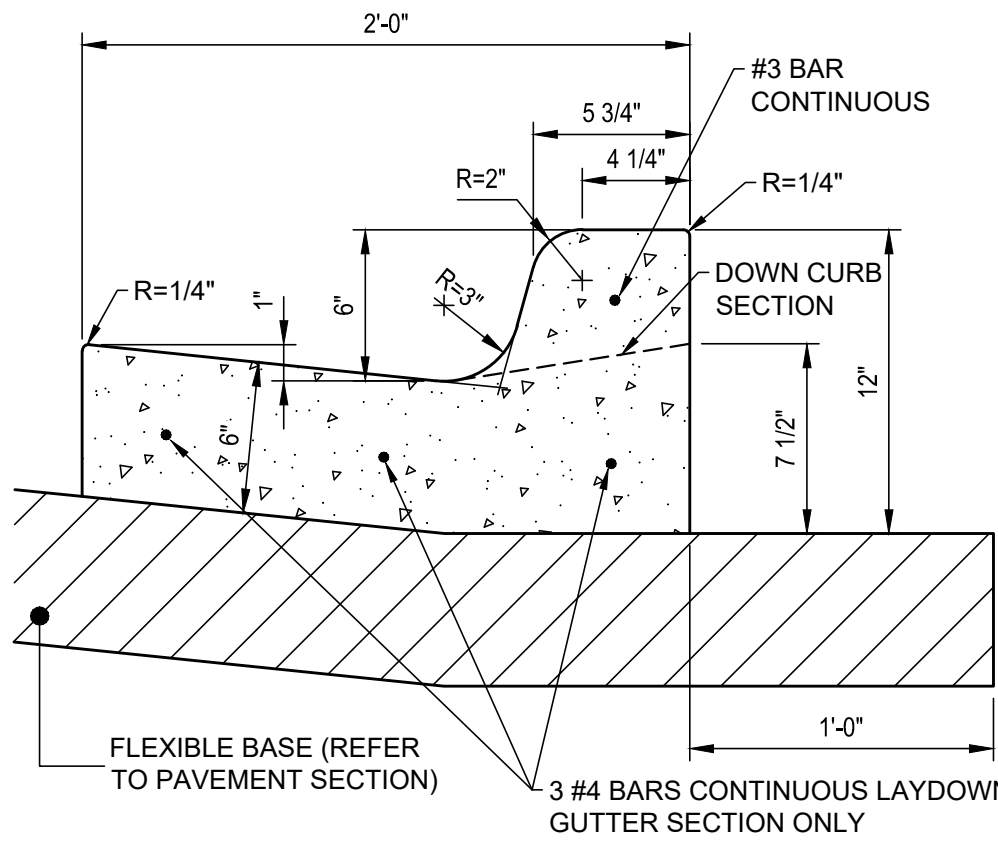
XX STANDARD ACCESSIBLE RAMP
NO SCALE



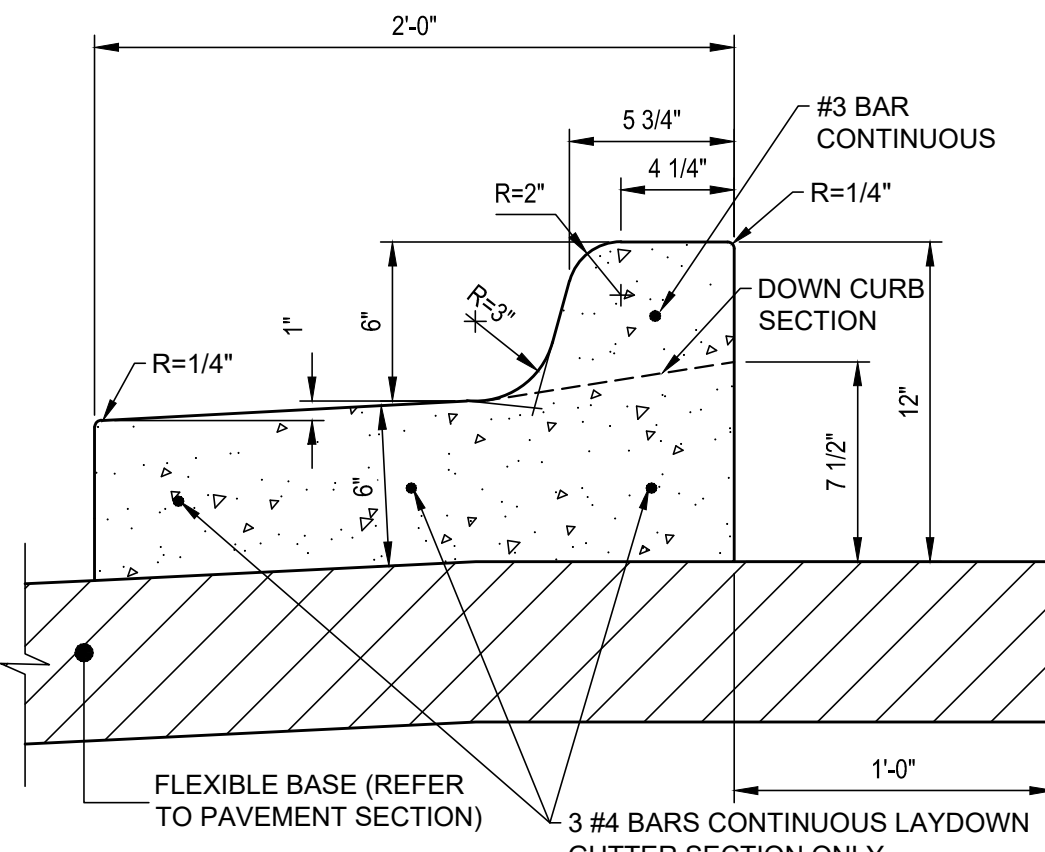
XX SAWED CONTRACTION JOINT (PAVEMENT)
NO SCALE



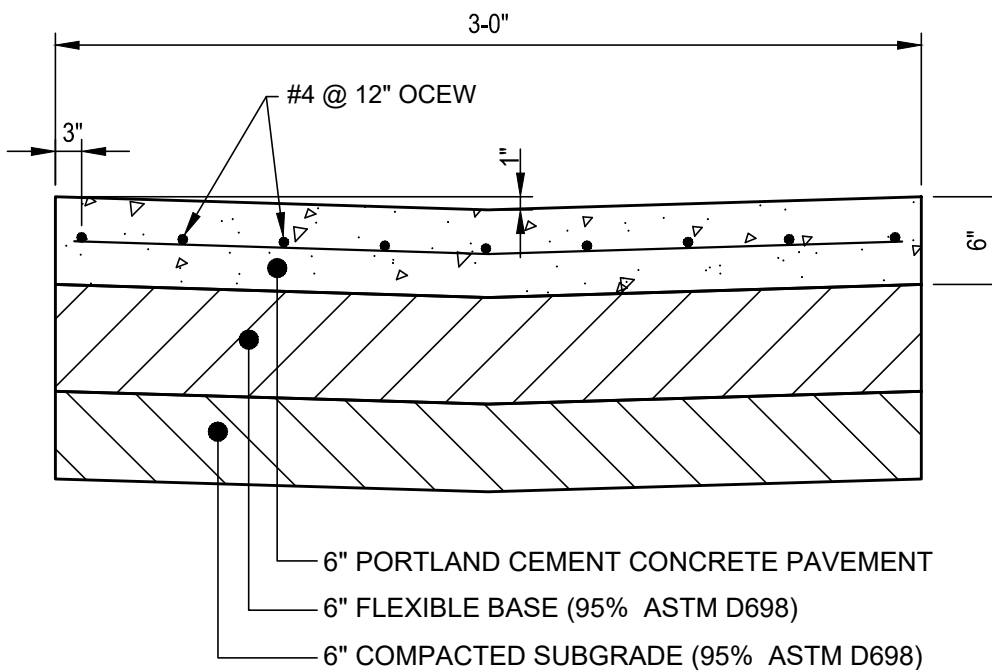
XX CALICHE ROAD SECTION
NO SCALE



XX 24" CURB AND GUTTER
NO SCALE



XX DROP LIP CURB AND GUTTER
NO SCALE



XX 3 FT VALLEY GUTTER
NOT TO SCALE

XX EXPANSION JOINT (PAVEMENT)
NO SCALE

NOTES:
CONTRACTION JOINTS AT 10' SPACING
EXPANSION JOINTS AT 40' SPACING

NOTES:
CONTRACTION JOINTS AT 10' SPACING
EXPANSION JOINTS AT 40' SPACING

RAMP NOTES:

1. MINIMUM RAMP WIDTH IS 4'.
2. LANDINGS WILL HAVE A MINIMUM LENGTH OF 5' AND A MINIMUM WIDTH BEING AS WIDE AS THE RAMP LEADING TO IT. IF A CHANGE OF DIRECTION IS REQUIRED, THE RAMP WIDTH WILL BE 5'.
3. RAMP SLOPES NOT TO EXCEED 1:12 (8.33%) UNLESS OTHERWISE NOTED IN PLANS.
4. FLARE NOT TO EXCEED 1:10 (10%) ON ANY RAMP.
5. CROSS SLOPE ON ALL SIDEWALKS AND LANDINGS NOT TO EXCEED 1:50 (2%).
6. ANY RAMP THAT HAS A RISE GREATER THAN 6" WILL REQUIRE RAILS.
7. RAMP SLOPES WITH DROP-OFFS WILL REQUIRE A CURB OF NO LESS THAN 2" HIGH.
8. ONLY IN PUBLIC RIGHT OF WAY, SLOPED SURFACES OF CURB RAMP SHALL HAVE A 2FT WIDE BAND OF TEXTURE CONSISTING OF RAISED TRUNCATED DOMES MEETING THE REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS SECTION 705 AND HAVE A COLOR, AS SELECTED BY THE ARCHITECT, THAT SIGNIFICANTLY CONTRAST WITH ADJACENT SURFACES AND THAT IS NON-SKID. ACCEPTABLE PRODUCTS:
1 DURABAK W/SAFETY TRAX DETECTABLE WARNING SYSTEM BY COTE-L DISTRIBUTION COMPANY (1-800-766-1699), COORDINATE COLOR WITH ARCHITECT.
2 SUBSTITUTIONS AS APPROVED BY THE ENGINEER

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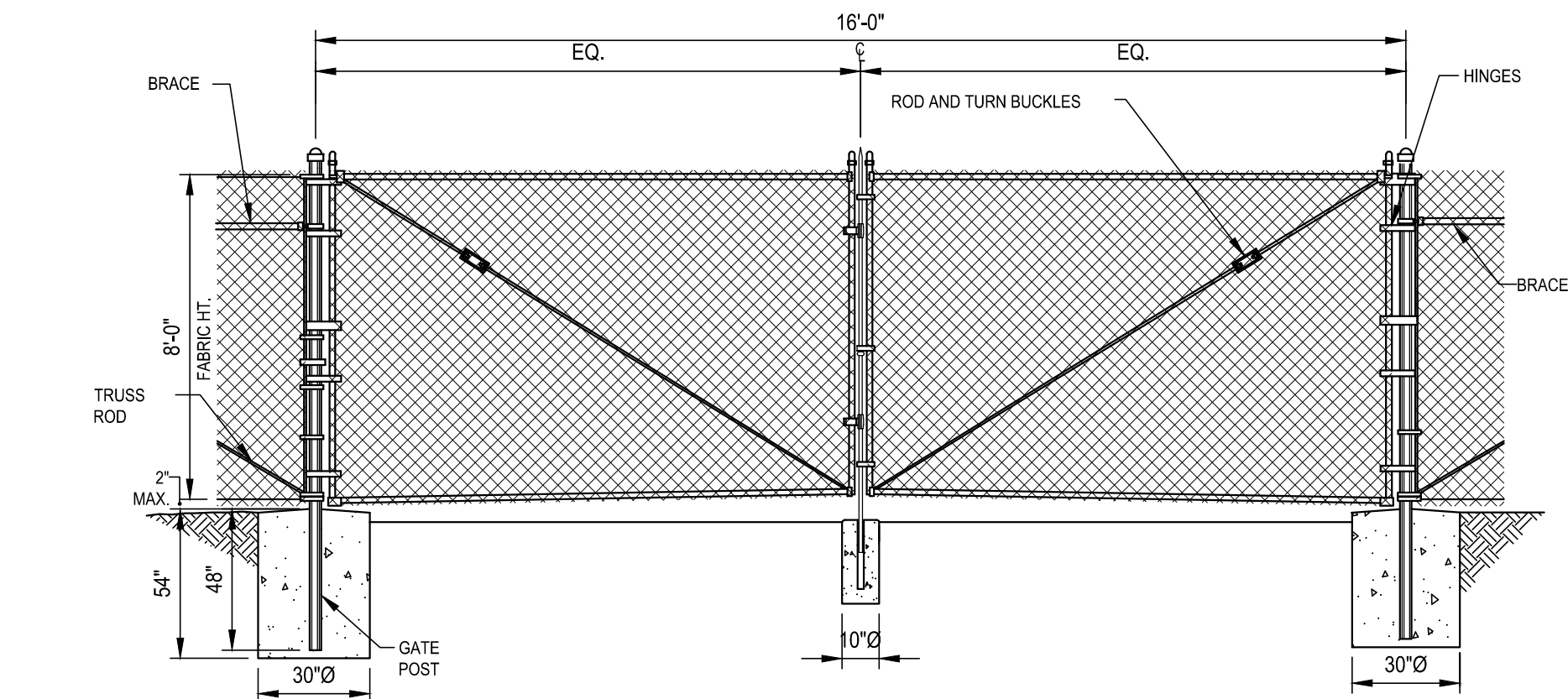
PROJECT NO.
2503.22

DATE DESCRIPTION

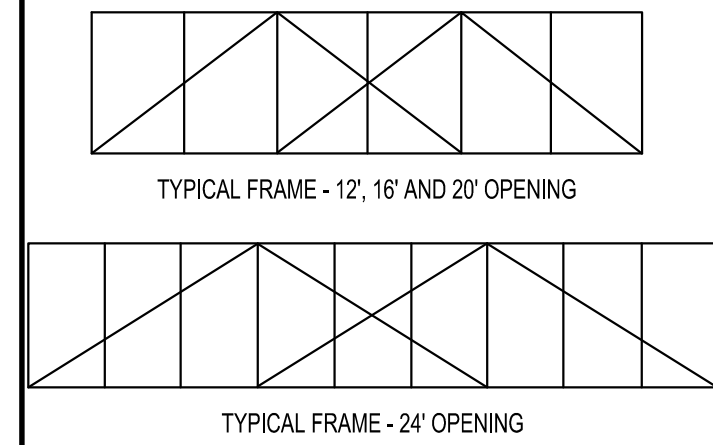
Paving Details

C-509

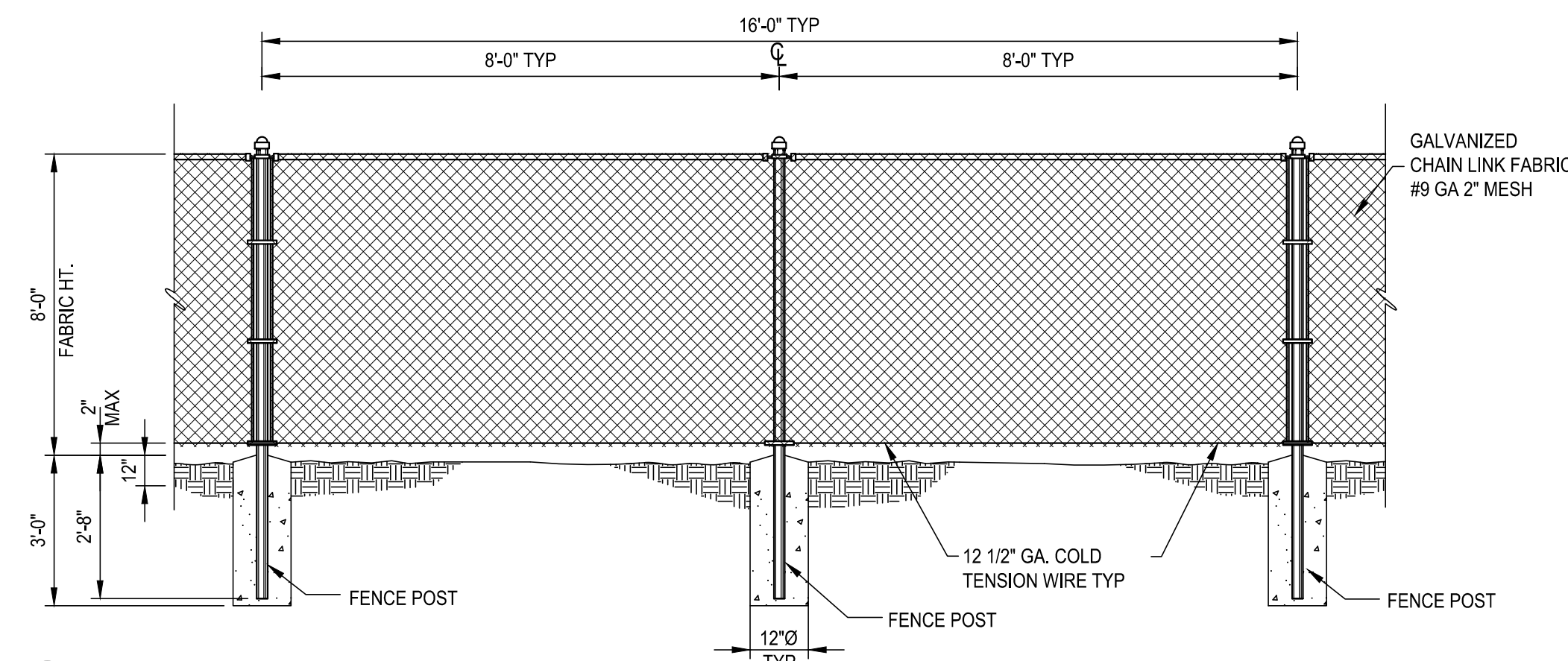
1. THE CONTRACTOR MAY SUBSTITUTE ANY EQUIVALENT CANTILEVER SLIDE GATE APPROVED BY THE ENGINEER.
2. EXTRUDED, ROLLED OR FORMED COMPONENTS THAT PROVIDE EQUAL STRENGTH AND STABILITY MAY BE USED IN LIEU OF THE PIPE COMPONENTS SHOWN; AND, INTERNAL ROLLERS MAY BE USED IN LIEU OF THE EXTERNAL ROLLER UNITS SHOWN.
3. GATE COMPONENTS SHALL MEET OR EXCEED THE MATERIAL REQUIREMENTS SPECIFIED ON INDEX NO. 452.
2. STEEL GATE FRAME SHALL BE FABRICATED PRIOR TO GALVANIZING, EXCEPT THAT TRUSS RODS AND TRUSS ROD PLATES MAY BE FABRICATED FOLLOWING FRAME GALVANIZING PROVIDED SURFACES DAMAGED DURING WELDING ARE GALVANIZED IN ACCORDANCE WITH SECTION 24 OR AASHTO M36.
3. ALL FABRIC SHALL BE KNUCKLED TOP AND BOTTOM SELVAGES.
4. COST OF ALL GATE COMPONENTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SLIDING FENCE GATE (CANTILEVER), EACH



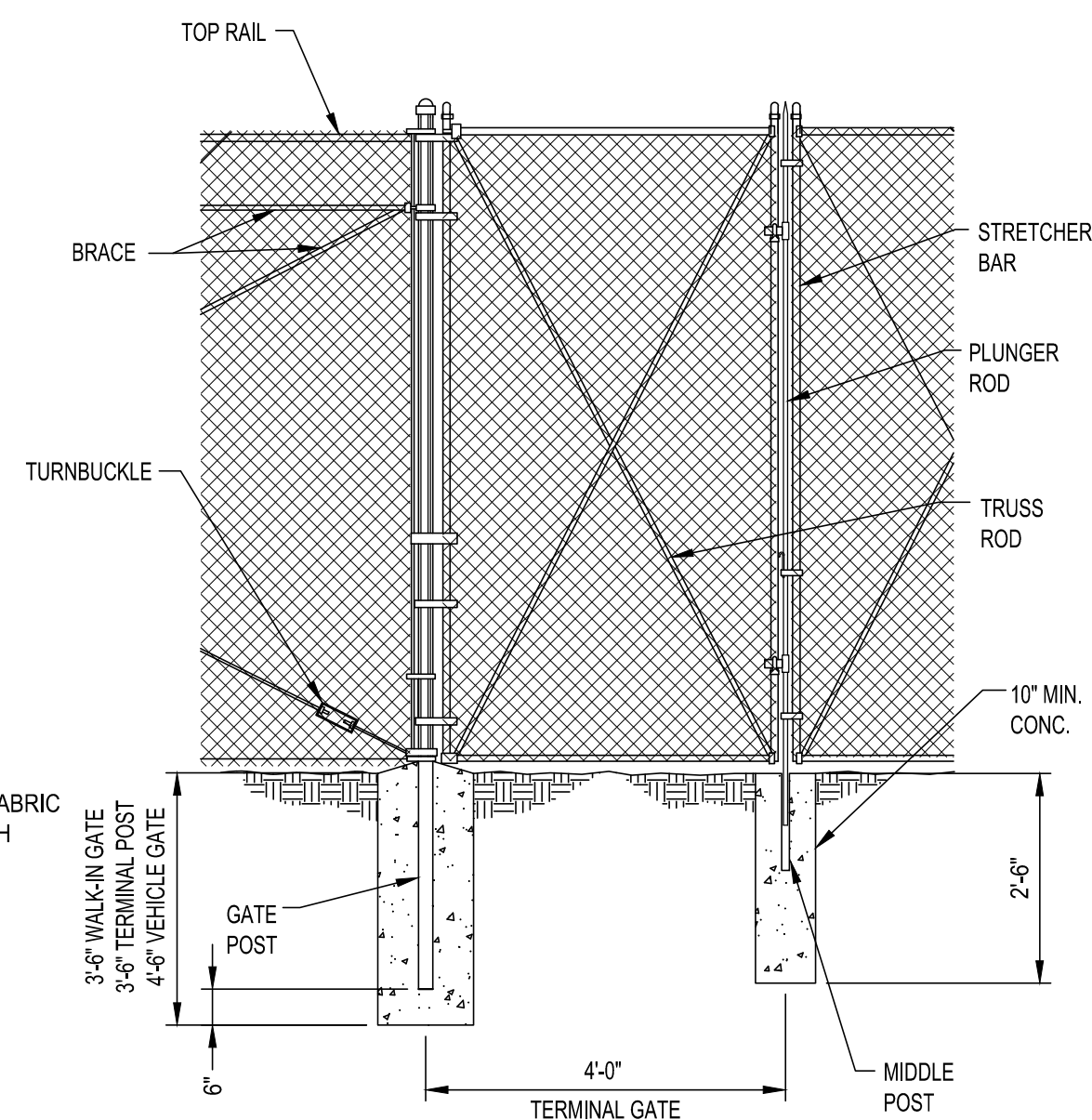
XX DOUBLE SWING ENTRANCE GATE
NOT TO SCALE



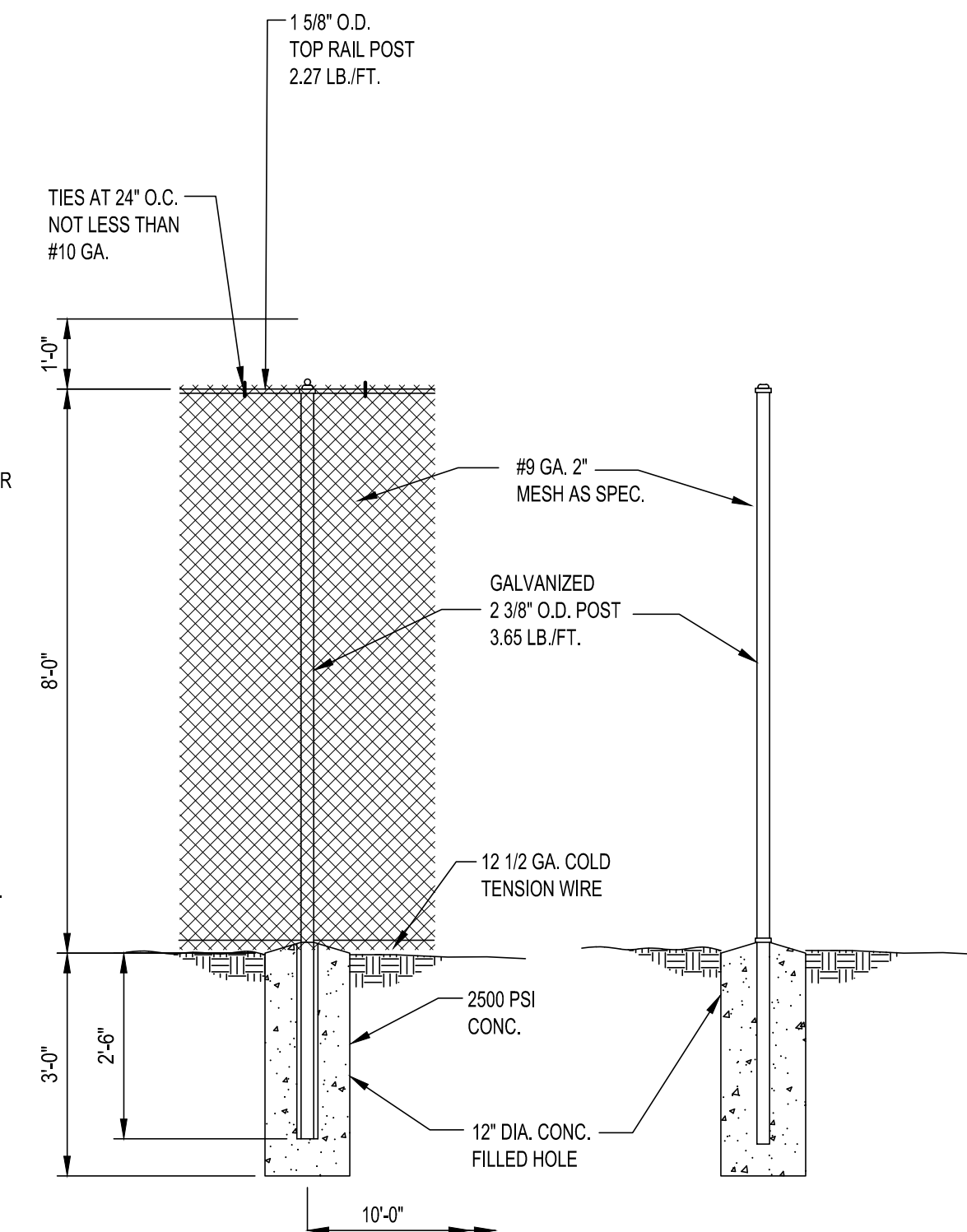
GATE OPENING	GATE FRAME	BACK FRAME
12'-0"	12'-3"	6'-0"
16'-0"	16'-3"	8'-0"
20'-0"	20'-3"	10'-0"
24'-0"	24'-3"	12'-0"



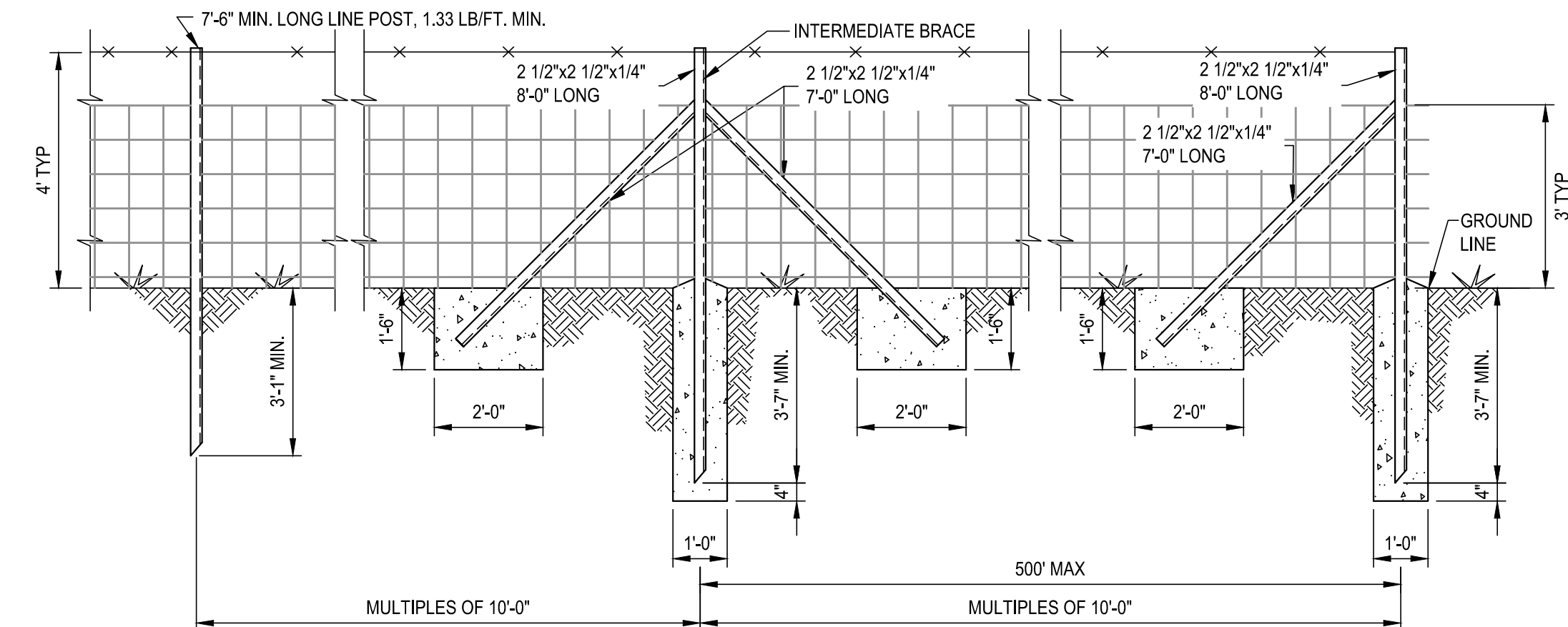
XX 8' CHAIN LINK FENCE
NOT TO SCALE



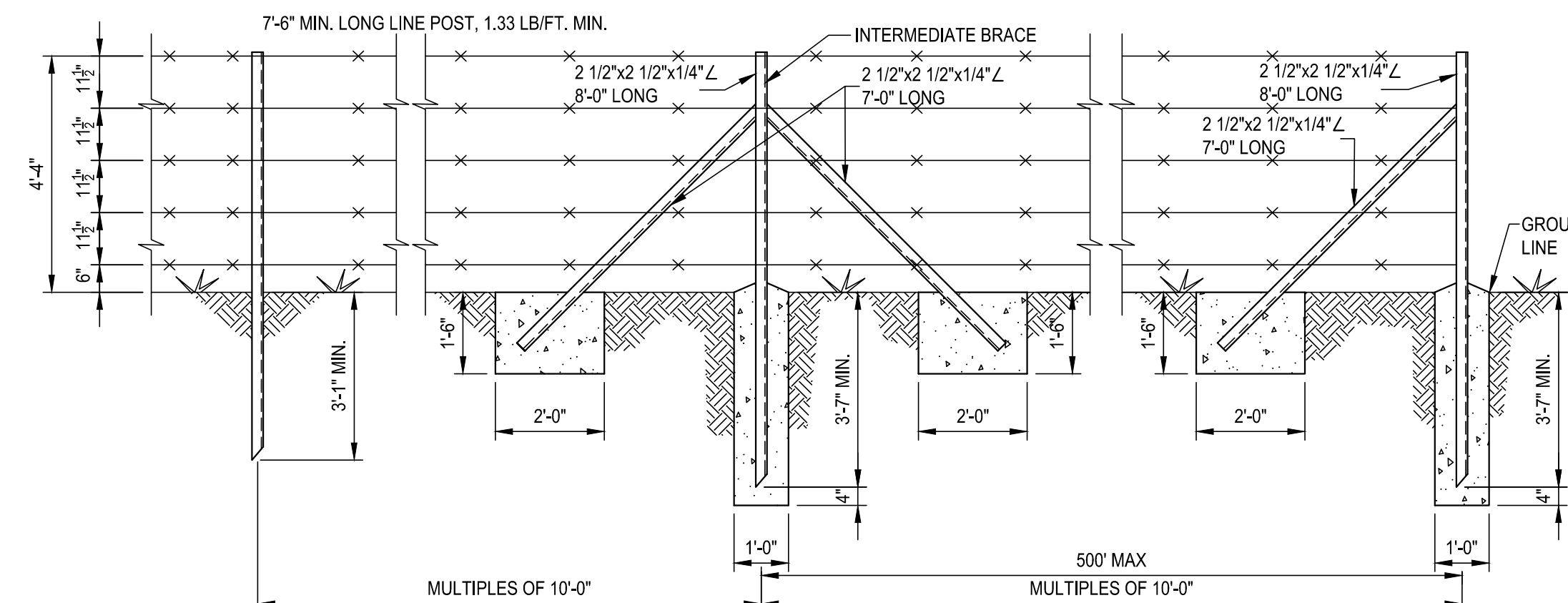
XX CHAIN LINK FENCE GATE
NOT TO SCALE



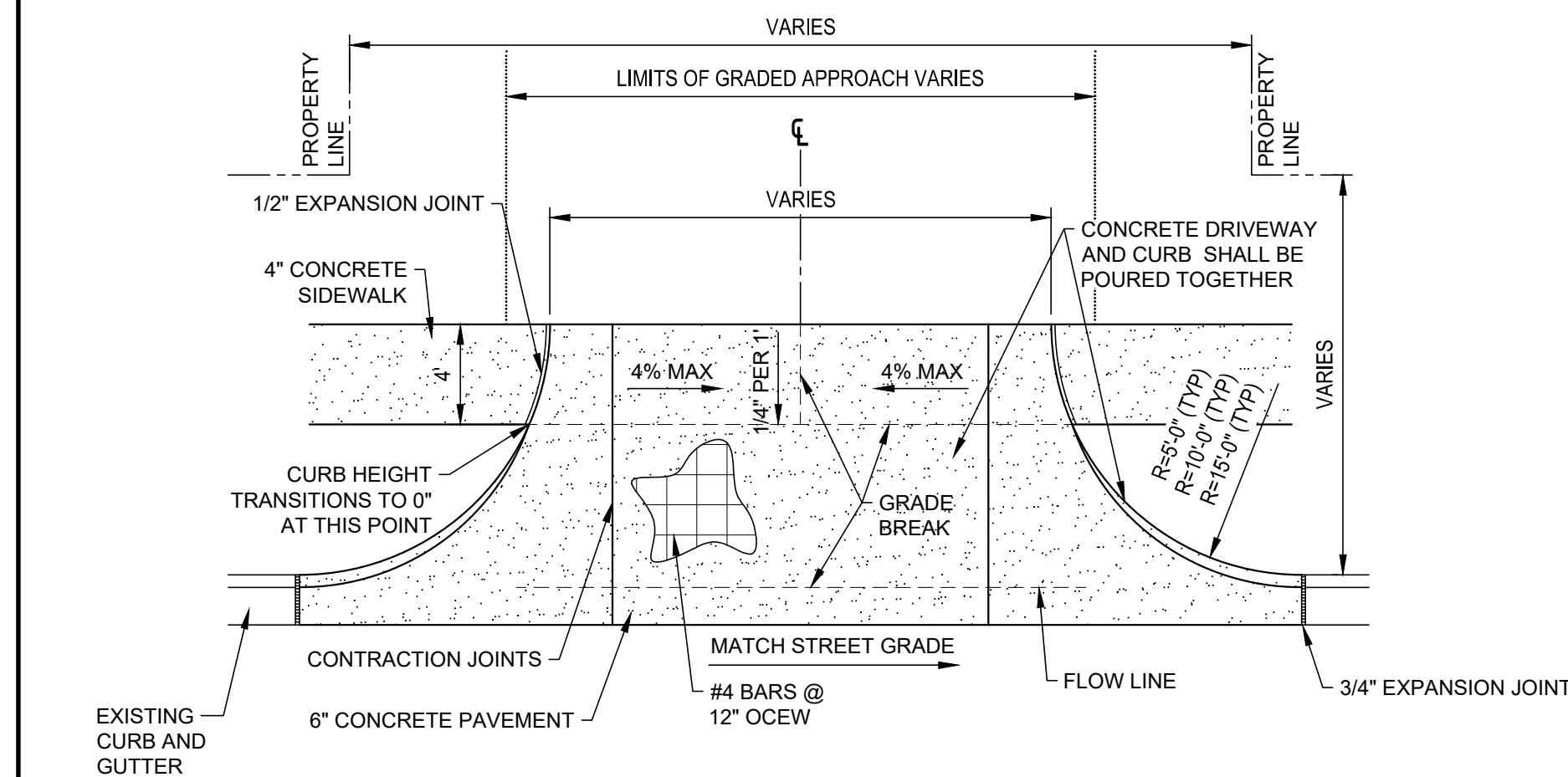
XX CHAIN LINK FENCE DETAILS
NOT TO SCALE



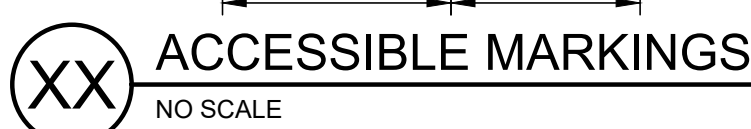
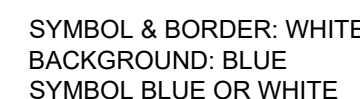
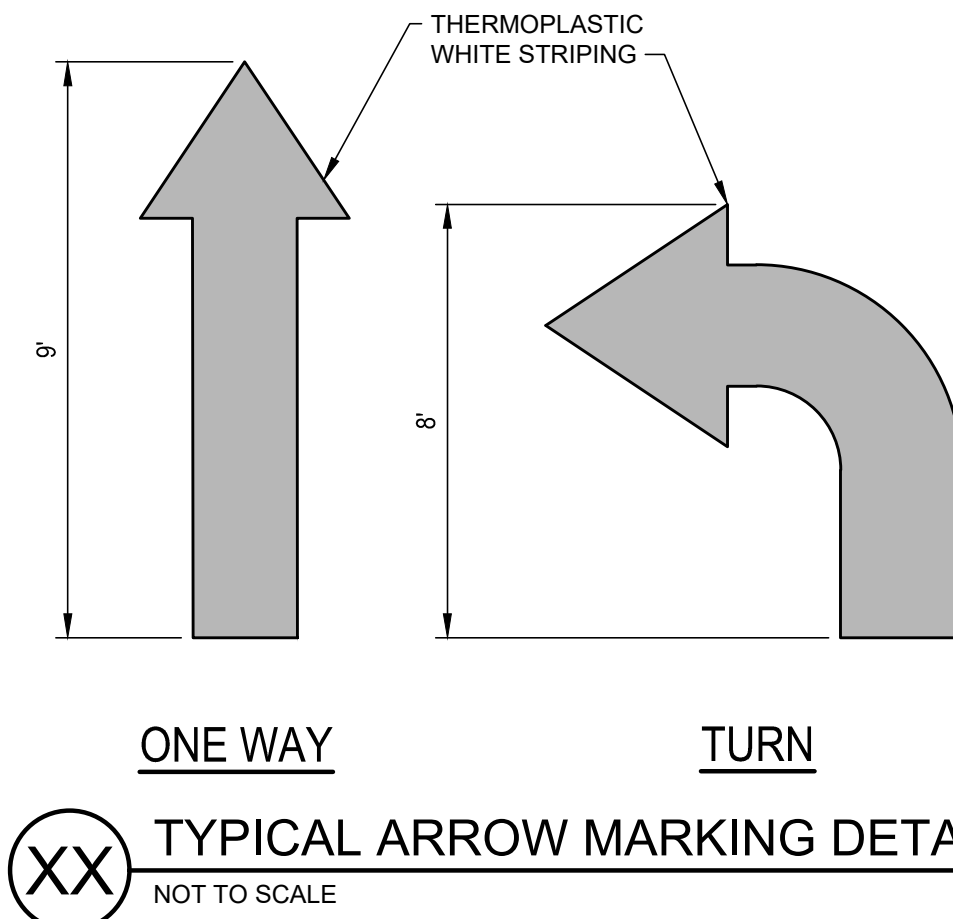
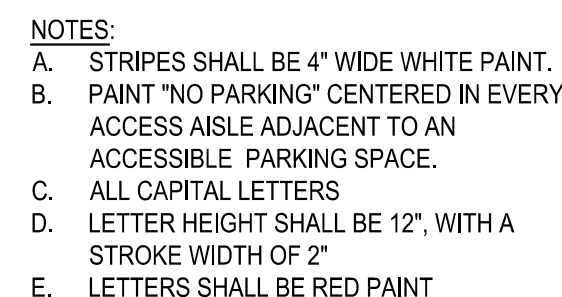
XX TYPICAL METAL MESH FENCE WITH BARBED WIRE TOP
NOT TO SCALE



XX BARBED WIRE FENCE DETAIL
NOT TO SCALE



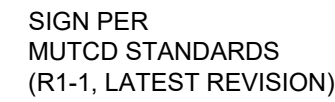
XX DRIVEWAY APPROACH AND CURB DETAIL
NOT TO SCALE



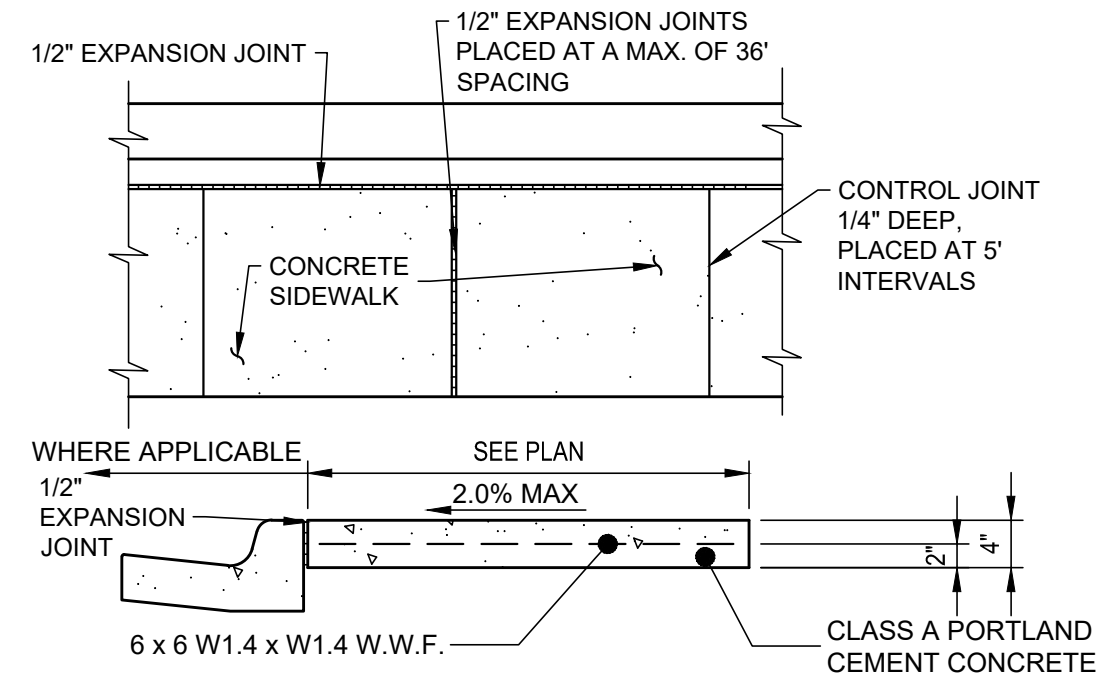
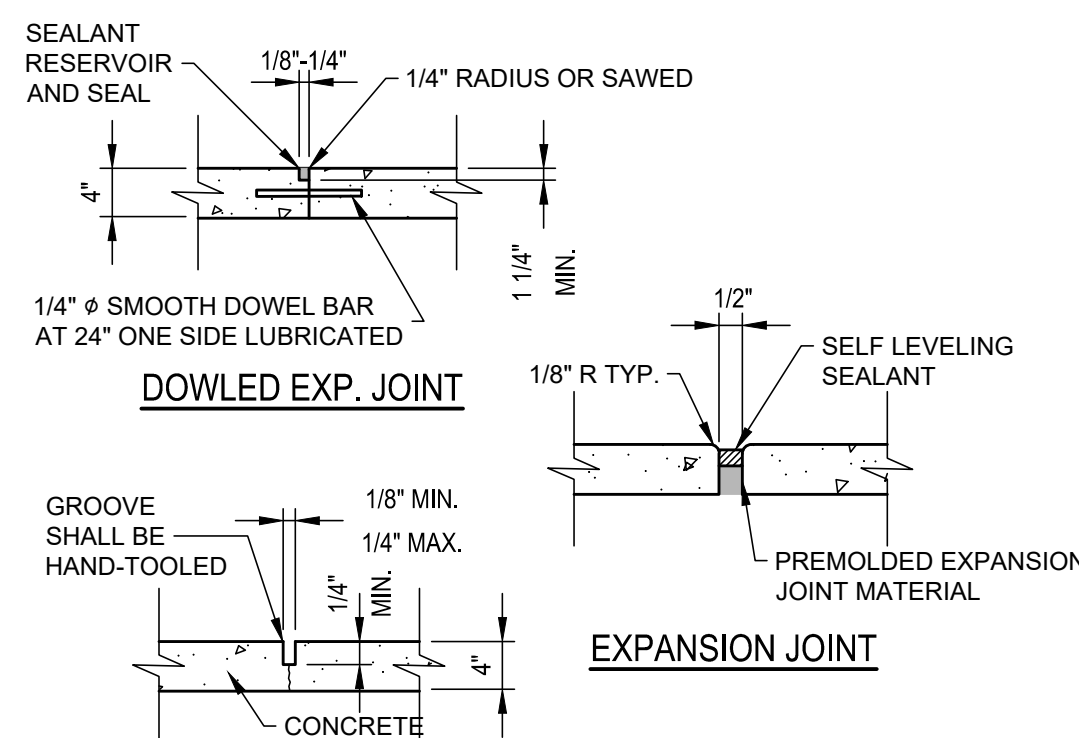
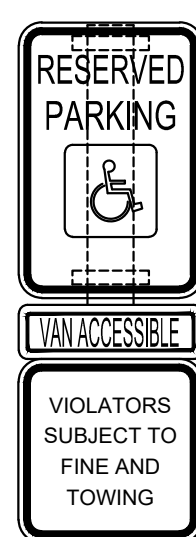
1. DIMENSIONS OF LIMIT LINES, AISLE MARKINGS, AND SYMBOL (WITH OR WITHOUT BACKGROUND) MAY VARY 10%.
2. PAVEMENT MARKING SYMBOLS (WITH BACKGROUND):
 - a. ARE REQUIRED UNLESS STATED ELSEWHERE IN THE PLANS.
 - b. SHOULD BE PLACED TOWARD THE FAR END OF THE PARKING SPACES SO AS TO BE VISIBLE TO MOTORISTS ENTERING THE PARKING SPACE.
3. MAY BE PAINTED OR PREFABRICATED MATERIAL.
4. SHALL BE 30"x30" MINIMUM.
5. WITH APPROVAL OF THE ENGINEER, PREFABRICATED PAVEMENT MARKING SYMBOLS WITH BACKGROUNDS OF OTHER DIMENSIONS EXCEEDING THE 30"x30" MINIMUM MAY BE USED. ALTERNATIVE DESIGNS SHALL INCLUDE A PROPORTION SIZED SYMBOL OF ACCESSIBILITY, AND SHALL CONFORM TO THE ILLUSTRATED COLORS FOR BACKGROUND, SYMBOL, AND BORDER.
6. ALL PARKING SPACE LIMIT LINES SHALL BE WHITE OR WHITE LINES.
7. AISLE MARKINGS SHOWN ARE EXAMPLES ONLY. OTHER METHODS TO INDICATE A NO PARKING AREA ARE ACCEPTABLE. AISLE MARKINGS SHALL BE WHITE.
8. AN 18" X 8" SIGN:
 - a. SHALL BE REQUIRED FOR EACH ACCESSIBLE PARKING SPACE.
 - b. SHALL NOT BE PLACED BETWEEN TWO ACCESSIBLE PARKING SPACES.
 - c. SHALL NOT BE PLACED IN A LOCATION THAT RESTRICTS MOVEMENT OF WHEELCHAIRS WITHIN THE ADJACENT SIDEWALK, AND
 - d. SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET. IF MOUNTED TO WALL OR GUARDRAIL, SIGN SHALL BE NEAR PEDESTRIAN TRAFFIC MINIMUM MOUNTING HEIGHT MAY BE 7 FEET.
9. POST MOUNTED SIGNS SHOULD BE PLACED APPROXIMATELY 1 FOOT (OR GREATER) BEHIND THE CURB TO PREVENT DAMAGE FROM VEHICLE OVERHANG.
10. SIGNS MAY BE MOUNTED TO AN ADJACENT WALL OF A BUILDING WHEN POST MOUNTING IS IMPRACTICAL.



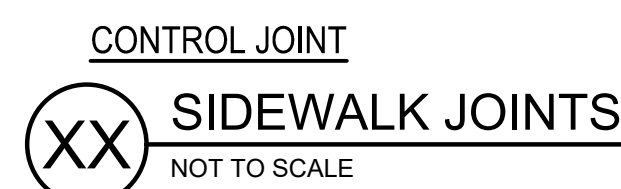
NOTE:
REFER TO DETAIL A3 FOR SIGNAGE
POST AND FOOTING



NOTE:
REFER TO DETAIL A3 FOR SIGNAGE
POST AND FOOTING



- GENERAL NOTES:**
1. MAX. SIDEWALK CROSS SLOPE IS 1/4" PER FOOT.
 2. (1/2") EXPANSION JOINT MATERIAL SHALL BE PLACED AT 40' INTERVALS IN NEW SIDEWALK, AT EACH (PC), AND AT EACH SIDE OF THE DRIVE APPROACH.
 3. DUMMY JOINTS SHALL BE INSTALLED EVERY 5'.



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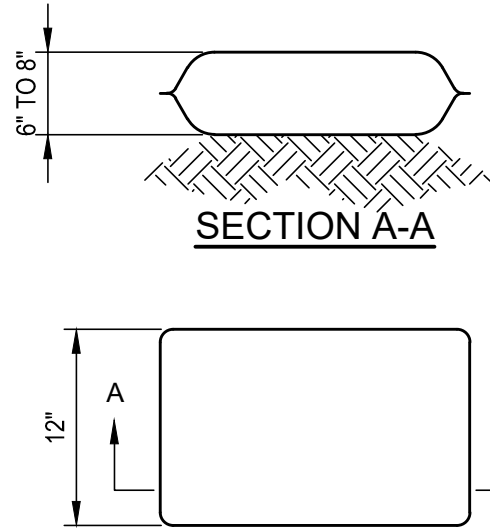
PROJECT NO.
2503.22

#	DATE	DESCRIPTION
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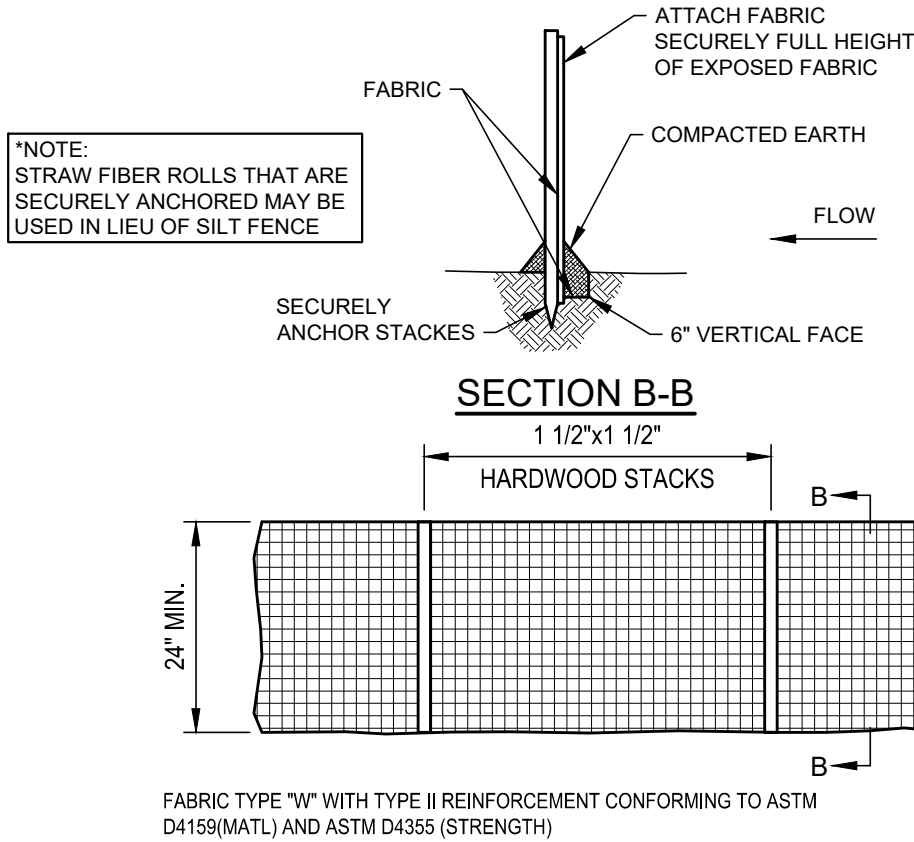
Paving Details

C-511

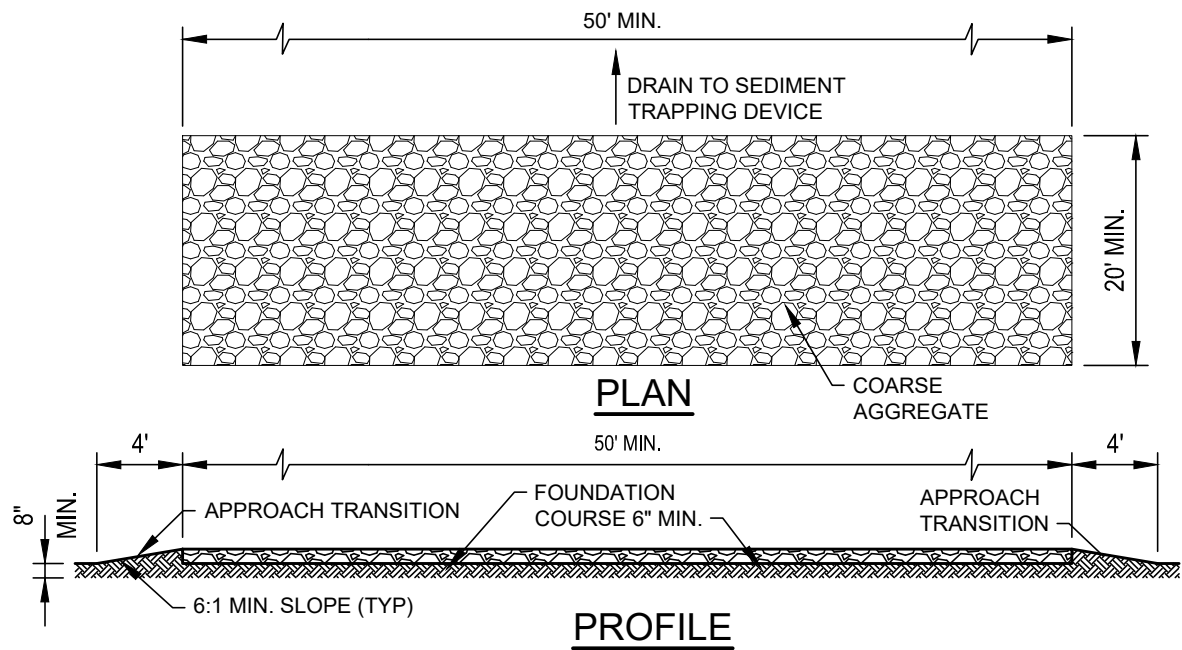
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XX SAND BAG DETAIL
NO SCALE



XX SILT FENCE DETAIL
NO SCALE



XX STABILIZED CONSTRUCTION
ENTRANCE & EXIT (TYPE 1)
NO SCALE

- STABILIZED CONSTRUCTION ENTRANCE NOTES
1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
 2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
 3. THE APPROACH SHOULD BE NO STEEPER THAN 6:1.
 4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE OR PORTLAND CEMENT CONCRETE.
 5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.



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