



FAUBUSH/NANCY TRANSMISSION MAIN – PHASE 2
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY

KENTUCKY HIGHWAY 80

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

M

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DRAWN BY: JRC
CHECKED BY: JLM
CHECKED BY: DSB

DATE: JAN 2024
SCALE: 1" = 50'
PROJECT: 2505

REVISED

SHEET
12



FAUBUSH/NANCY TRANSMISSION MAIN - PHASE 2
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY

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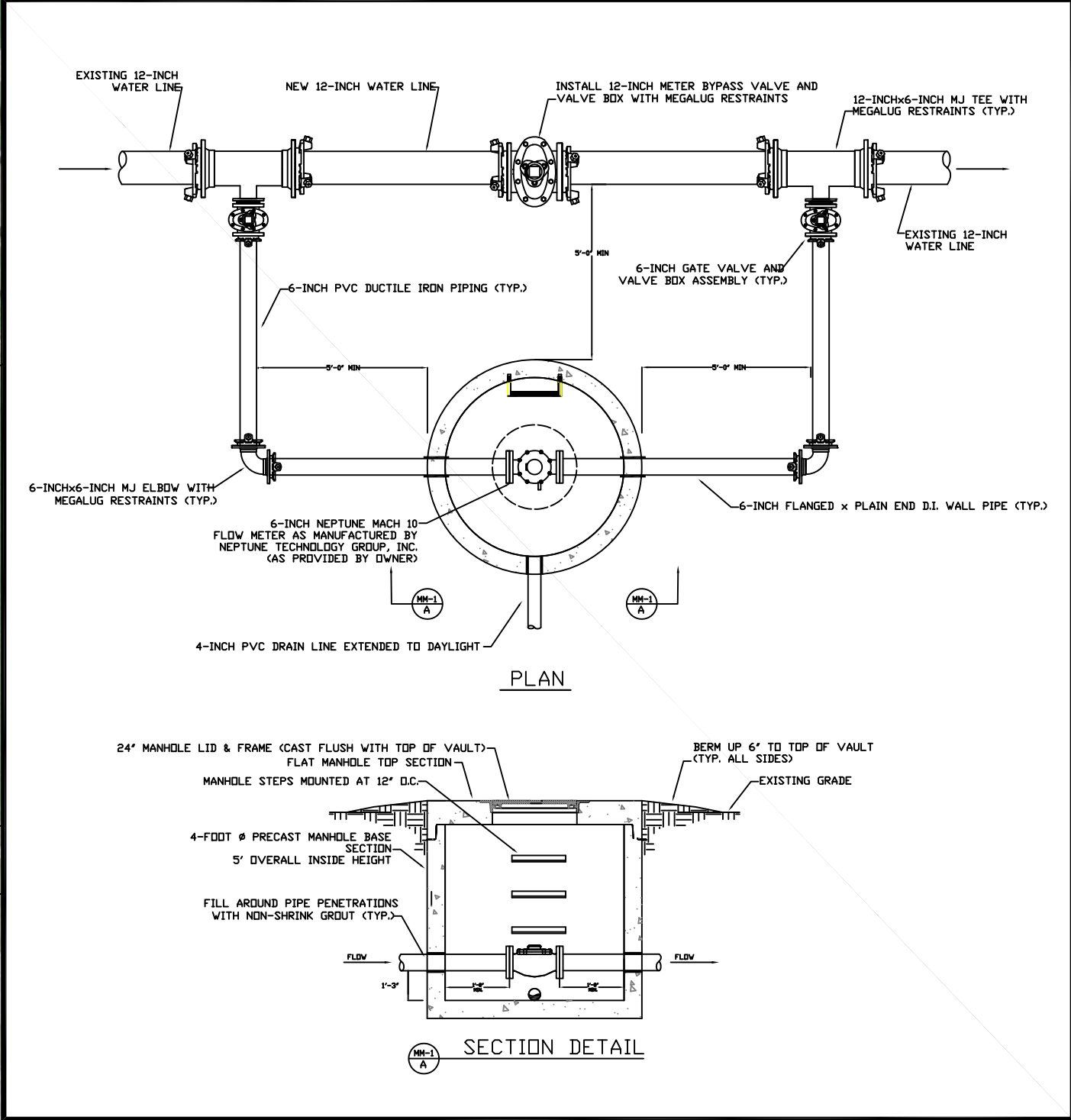
556 CARLTON DRIVE
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FAUBUSH/NANCY TRANSMISSION MAIN – PHASE 2
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY

KENTUCKY HIGHWAY 914 MASTER METER

STATE OF KENTUCKY

DERON S. BYRNE

23127

LICENSED PROFESSIONAL ENGINEER

M

Monarch Engineering, Inc.

556 CARLTON DRIVE

LAWRENCEBURG, KY 40342

DRAWN BY: BGB

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DATE: MARCH 2025

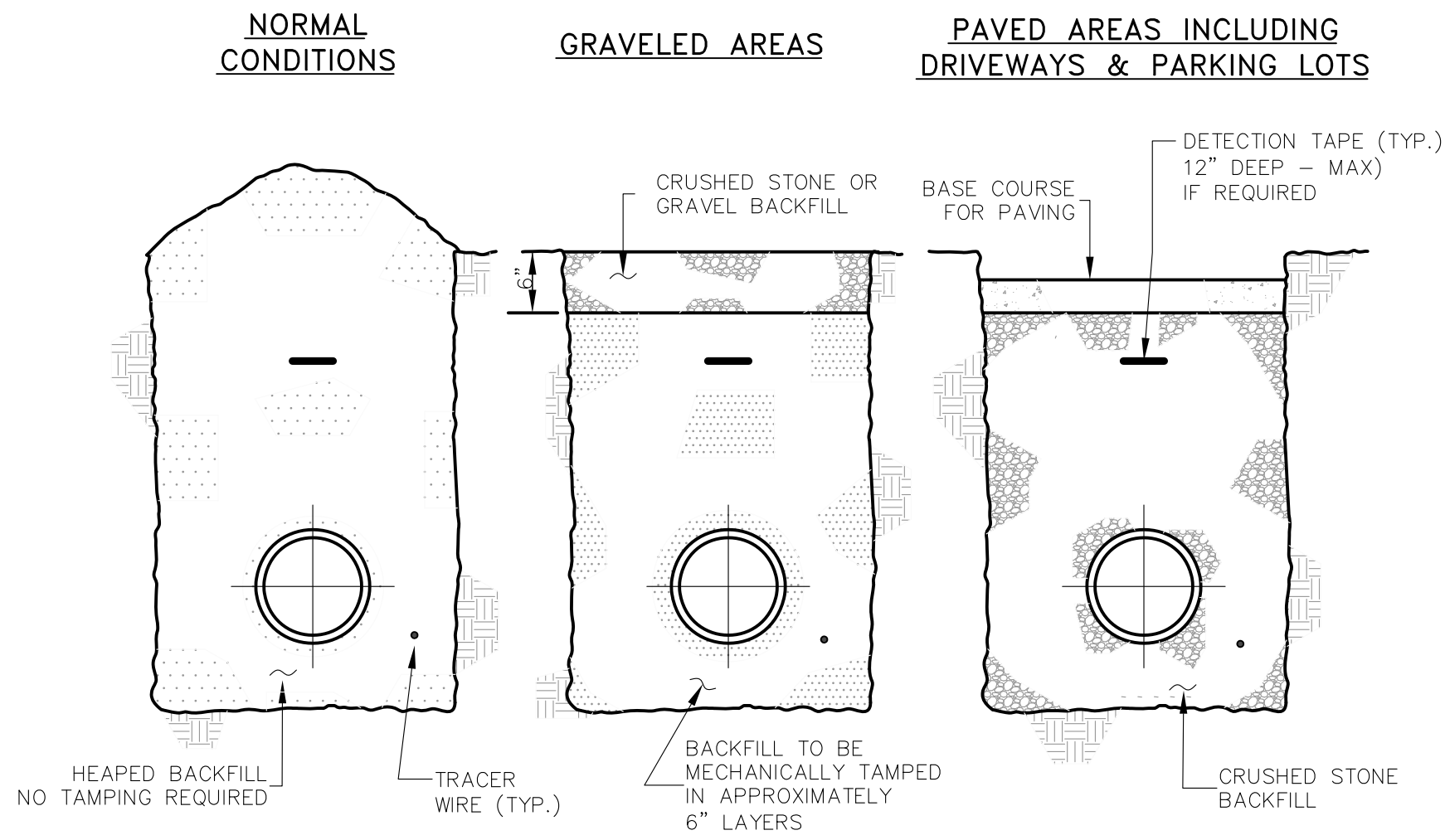
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PROJECT: 2505

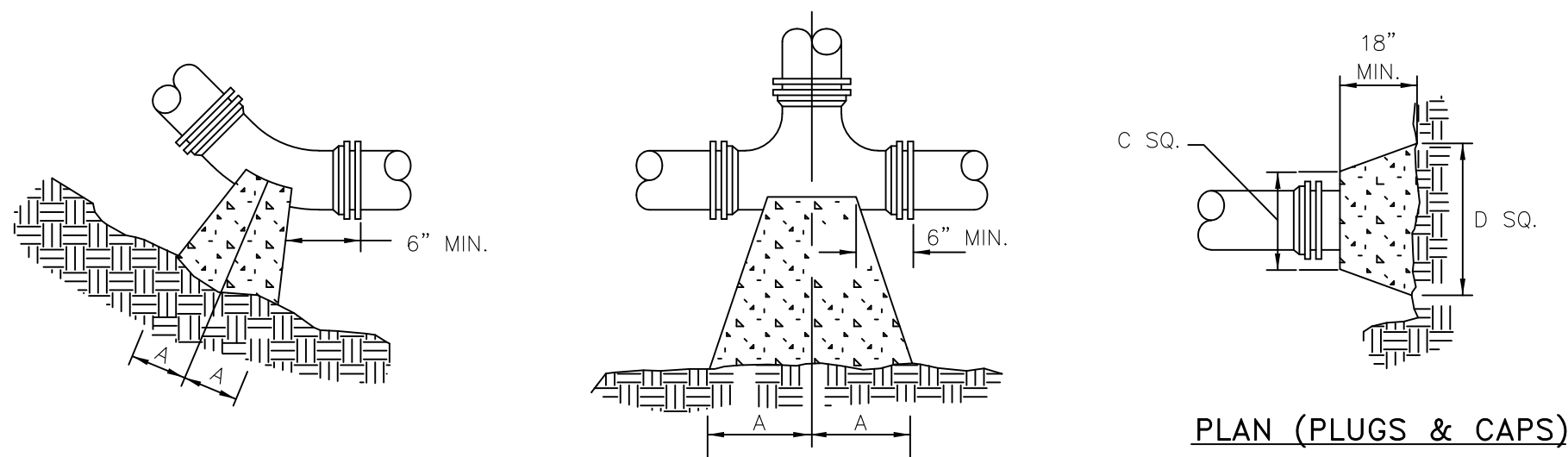
REVISED

SHEET

14



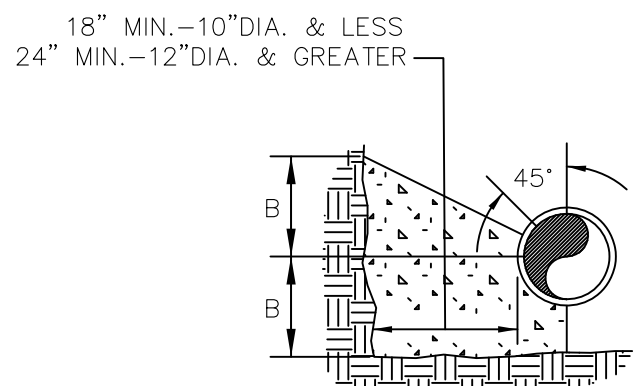
BACKFILLING



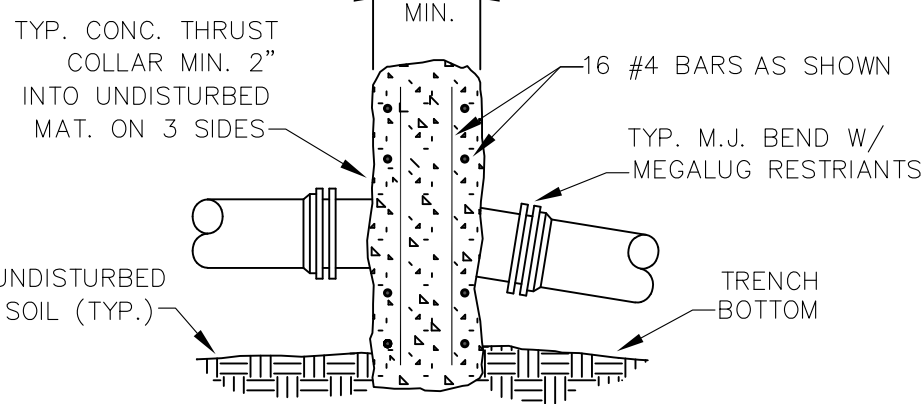
PLAN (HORIZONTAL BENDS)

PLAN (TEES)

PLAN (PLUGS & CAPS)



SECTION (HORIZONTAL BENDS & TEES)

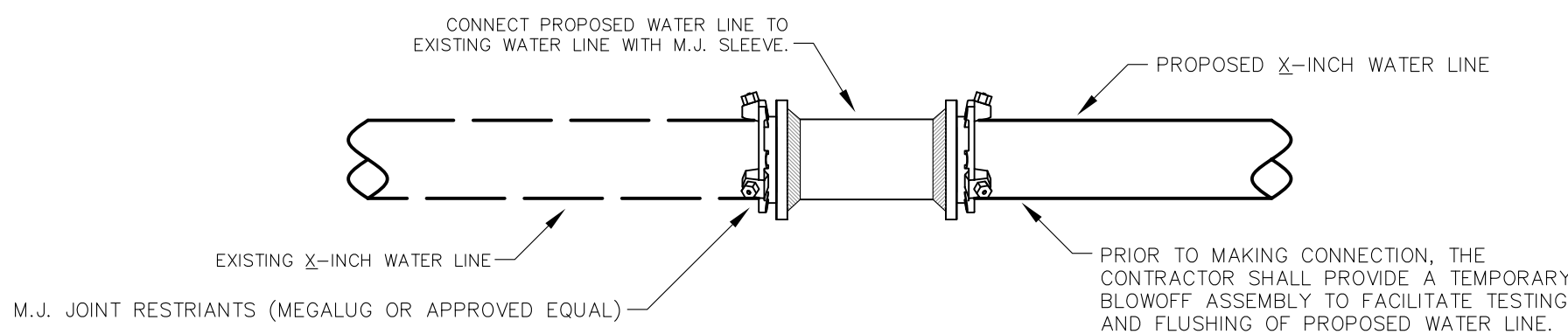


SECTION (VERTICAL BENDS)

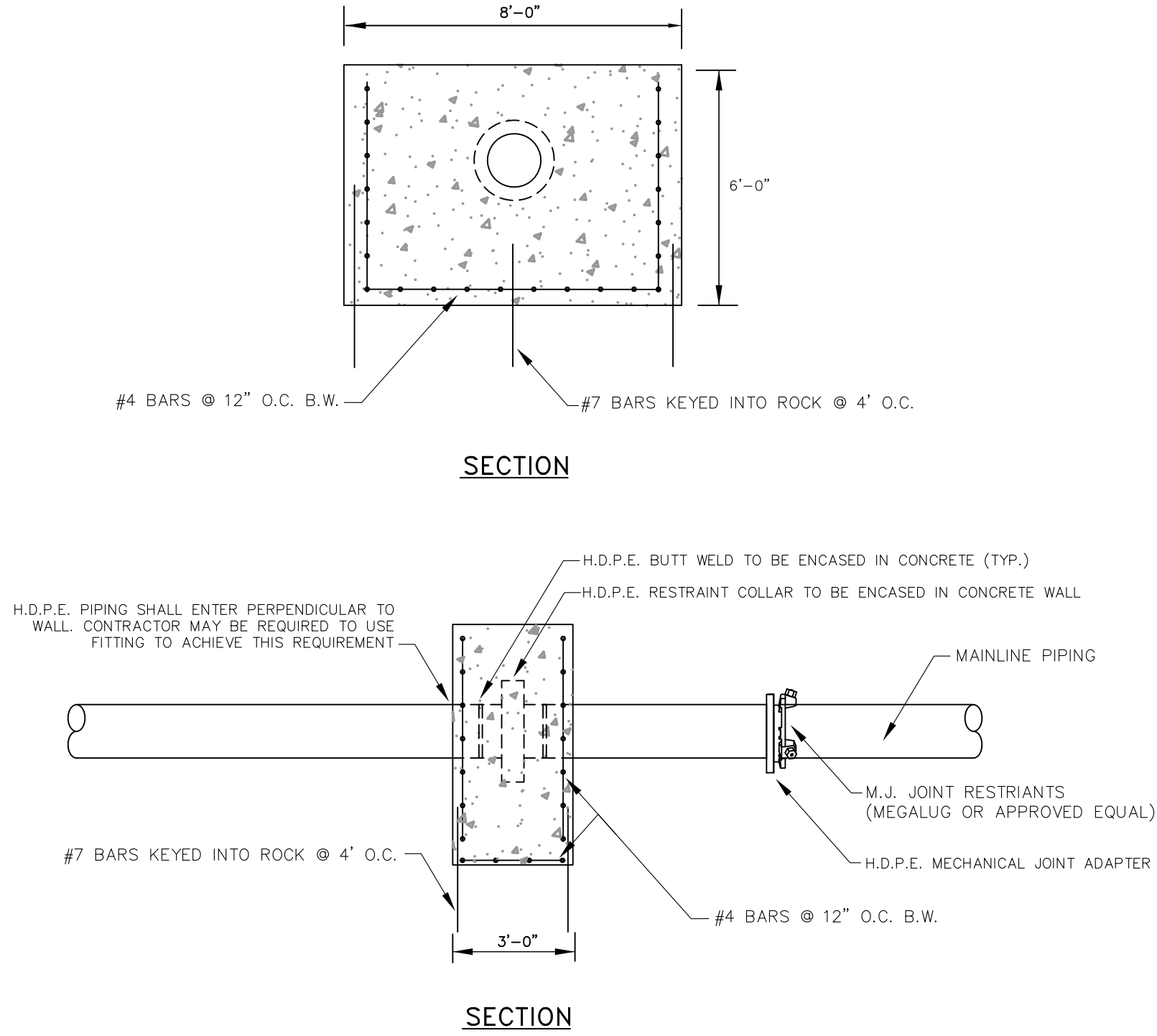
DIMENSION CHART		90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		PLUG	
PIPE SIZE		A	B	A	B	A	B	A	B	A	B	C	D
4"	8"	12"	8"	8"	6"	6"	6"	11"	9"	10"	6"		
6"	18"	12"	8"	10"	8"	8"	8"	8"	11"	10"	12"	18"	
8"	18"	13"	10"	10"	8"	8"	8"	8"	11"	12"	12"	24"	
10"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
16"	26"	20"	16"	18"	11"	13"	11"	13"	18"	20"	20"	36"	
24"	82"	42"	62"	30"	44"	22"	22"	16"	82"	42"	82"	42"	
30"	185"	42"	100"	42"	52"	42"	40"	30"	185"	42"	185"	42"	

- NOTES:
- FOR VERT. BEND DOWN IN EXCESS OF 11 1/4° BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.
 - FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.
 - GLANDS & BOLTS SHALL REMAIN ACCESSIBLE AND MUST BE PROTECTED FROM CONCRETE BY PLASTIC SHEETING OR OTHERWISE.
 - ALL THRUST BLOCK & SUPPORT CONCRETE SHALL BE 3000 PSI READY MIX.
 - THRUST BLOCKS WITH "B" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4" OF COVER.
 - DESIGN CRITERIA:
LINE PRESSURE = 200 psi
SOIL BEARING CAPACITY = 2000 psf
FACTOR OF SAFETY = 1.5

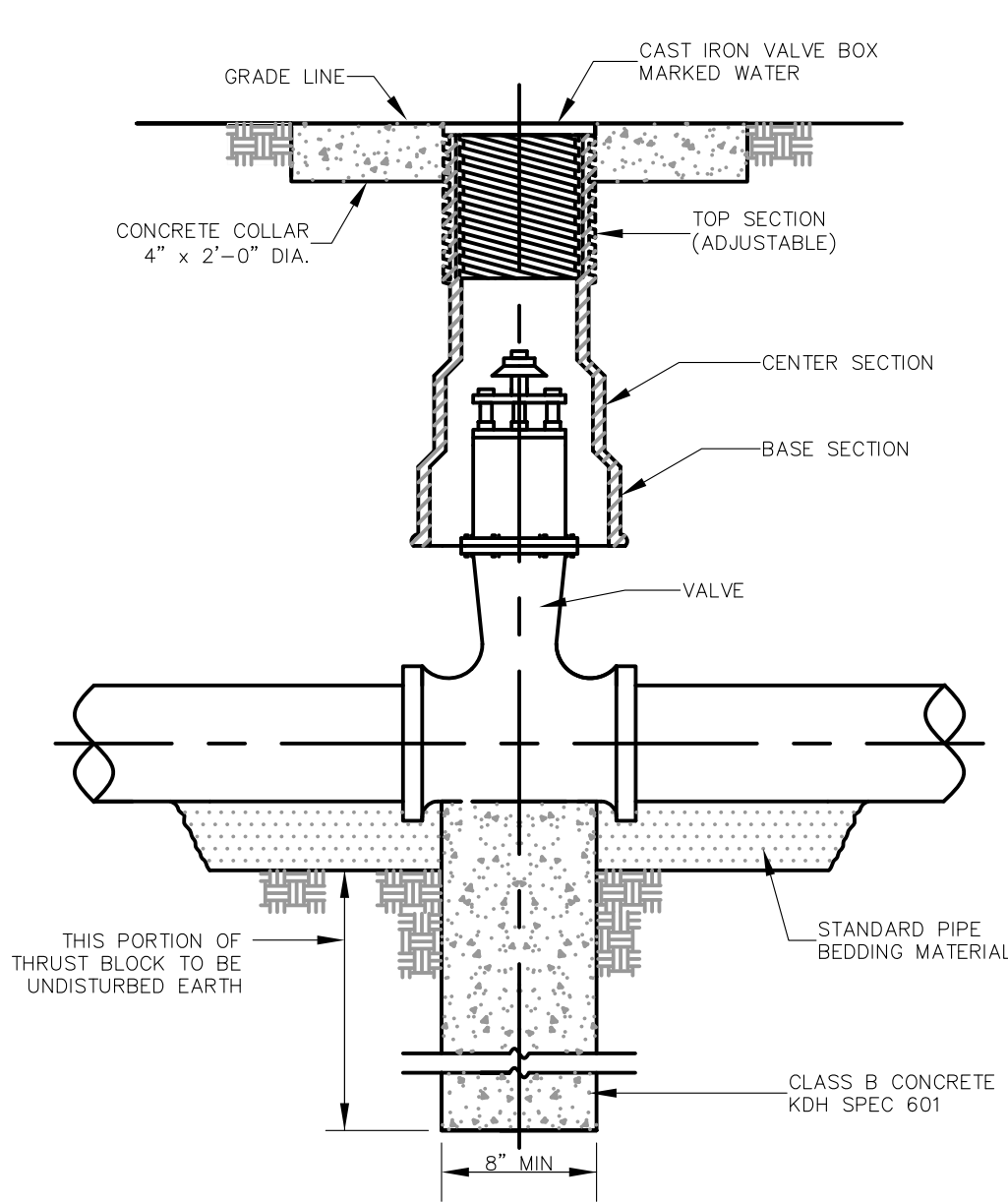
THRUST BLOCK DETAILS



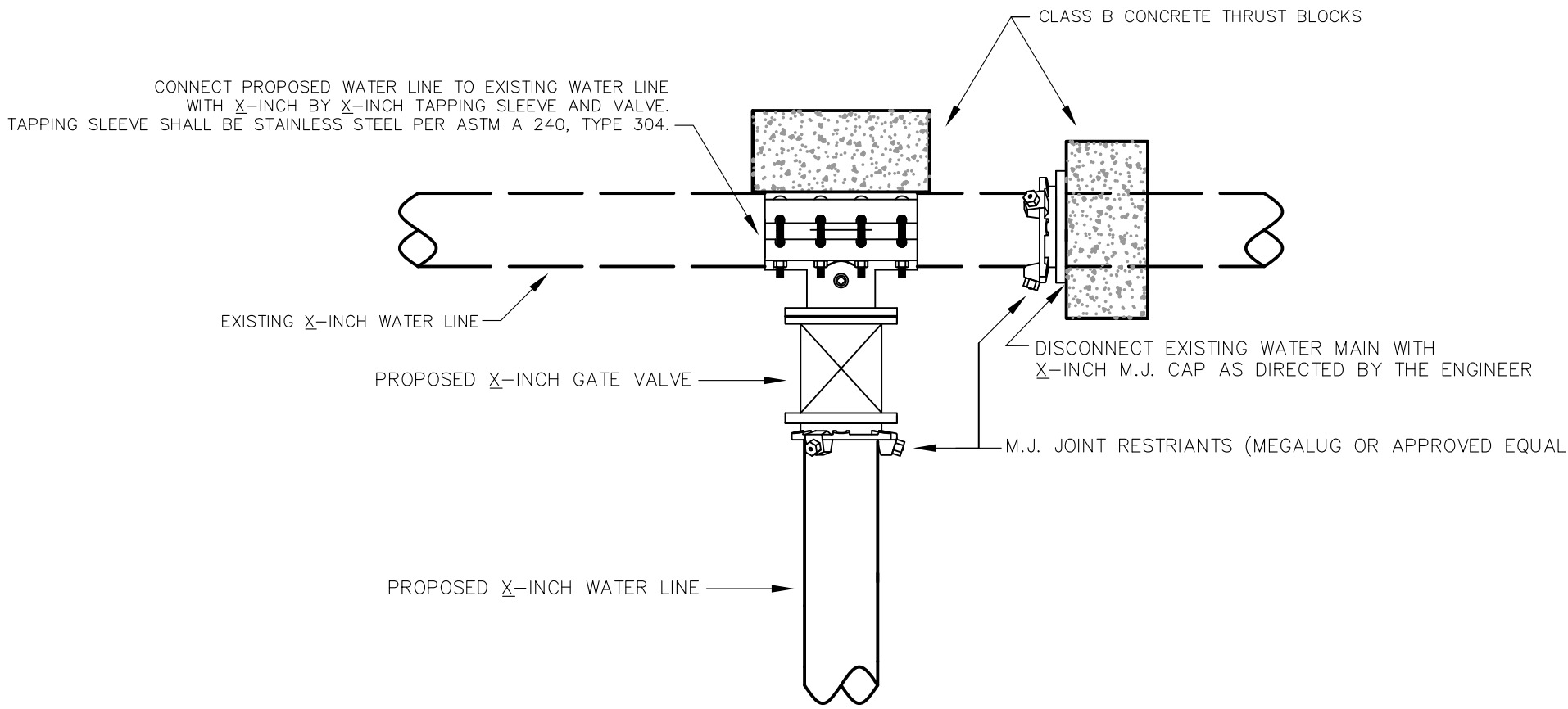
DIRECT CONNECTION



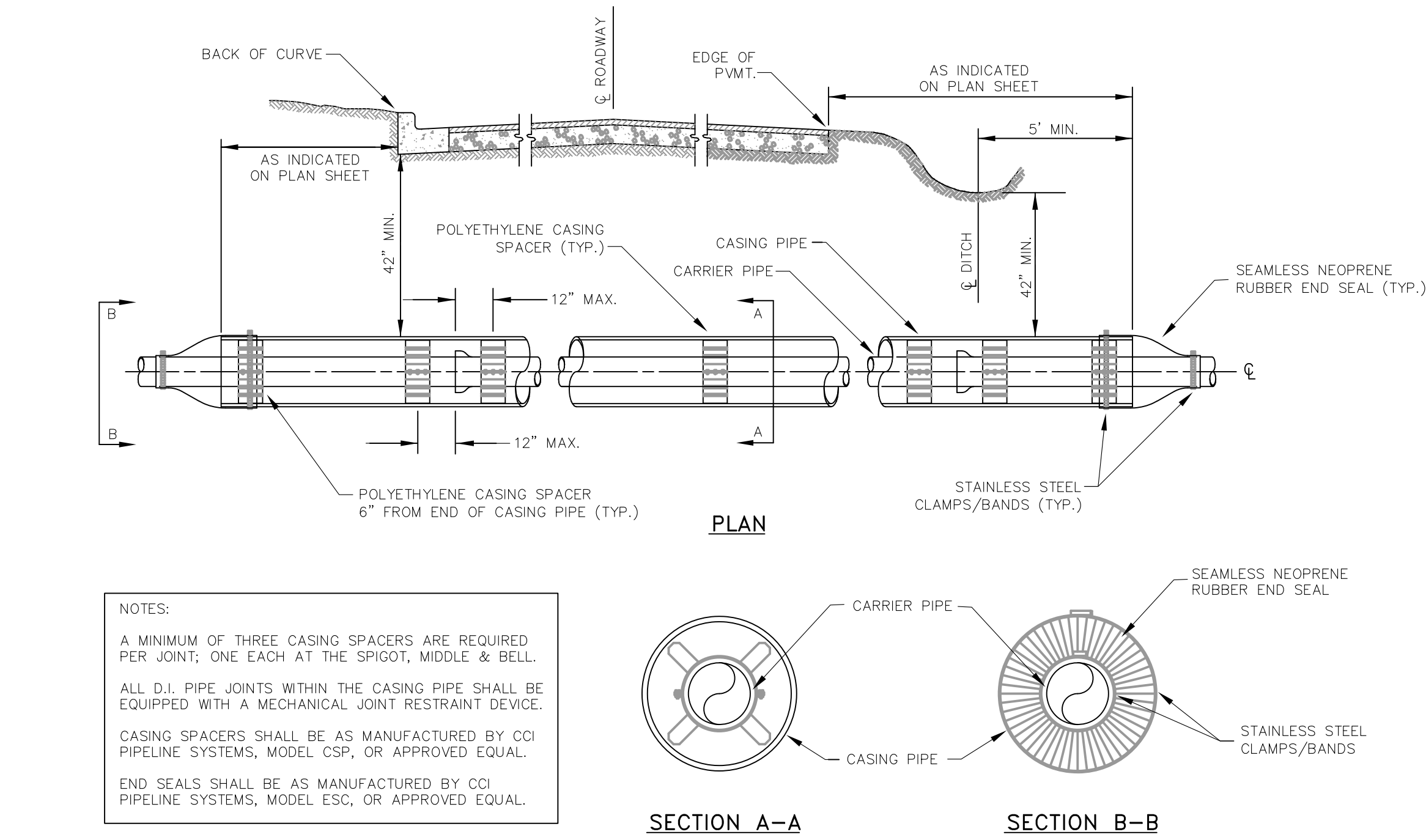
HDPE RESTRAINT WALL



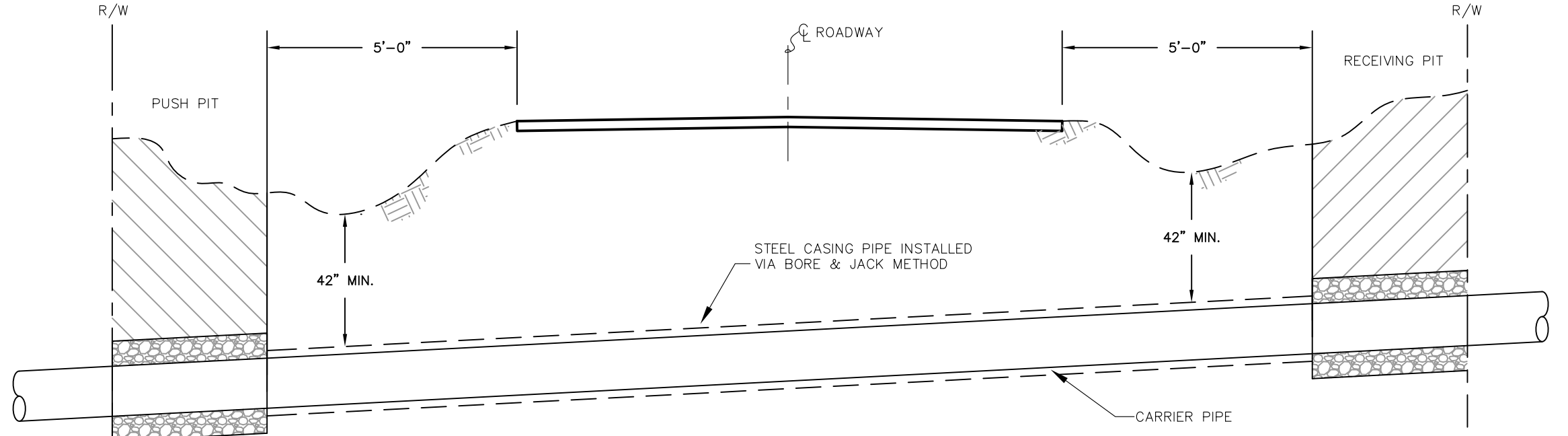
GATE VALVE



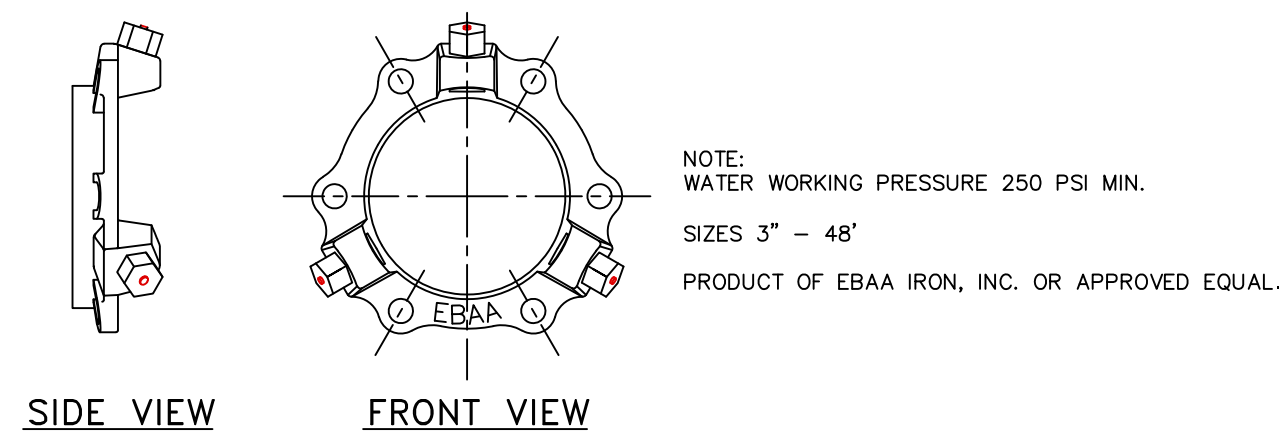
TYPE I CONNECTION



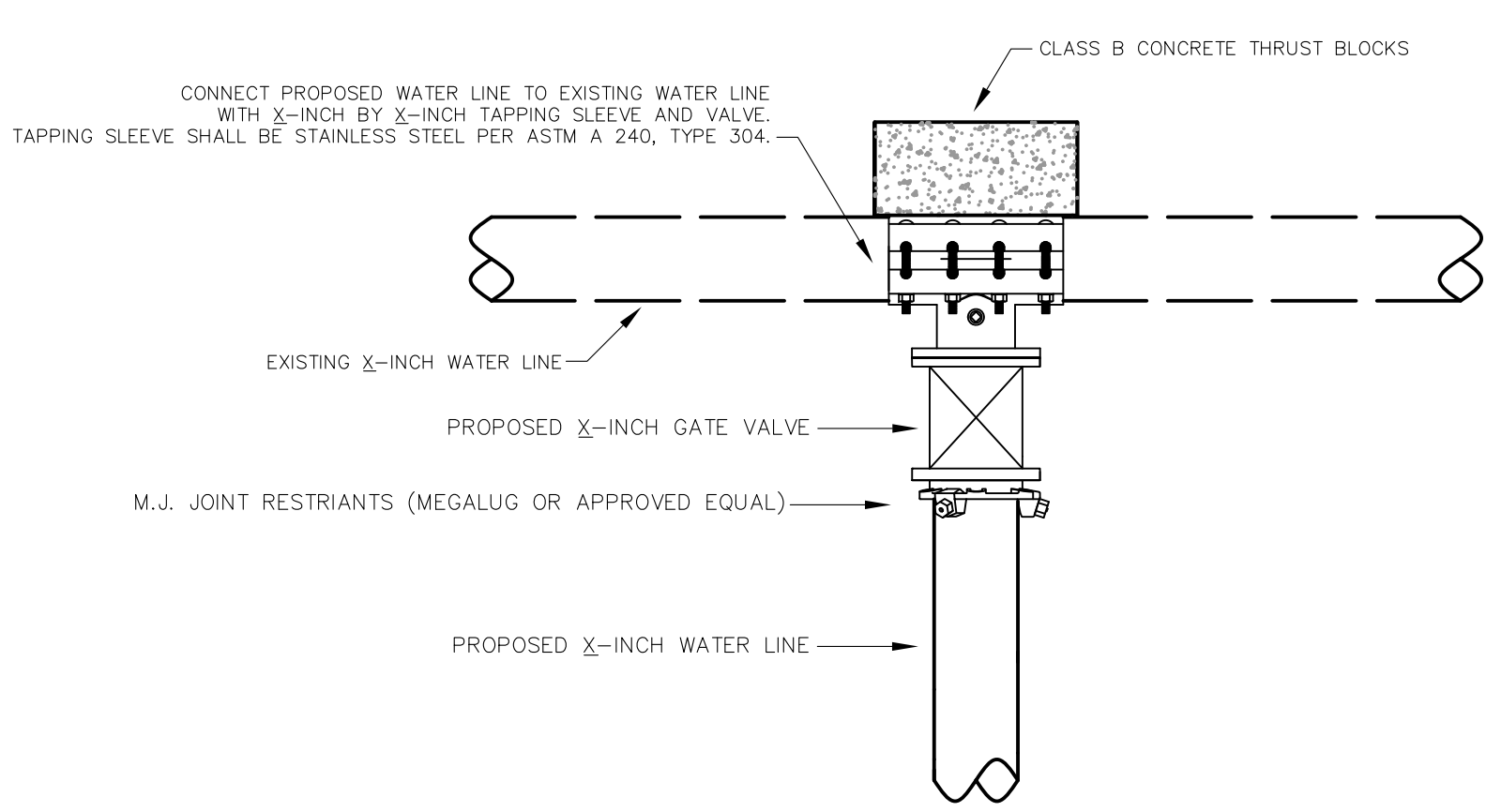
ENCASEMENT PIPE DETAILS



STATE HIGHWAY ENCASED BORE CROSSING



MEGA LUG JOINT RESTRAINT



TYPE II CONNECTION

Monarch Engineering, Inc.

556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

STANDARD DETAIL DRAWINGS

DESCRIPTION:

CUSTOMER:

WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY

PROJECT NO. 2505

DATE: APRIL 2025

DRAWN BY: JRC

CHECKED BY: DSB

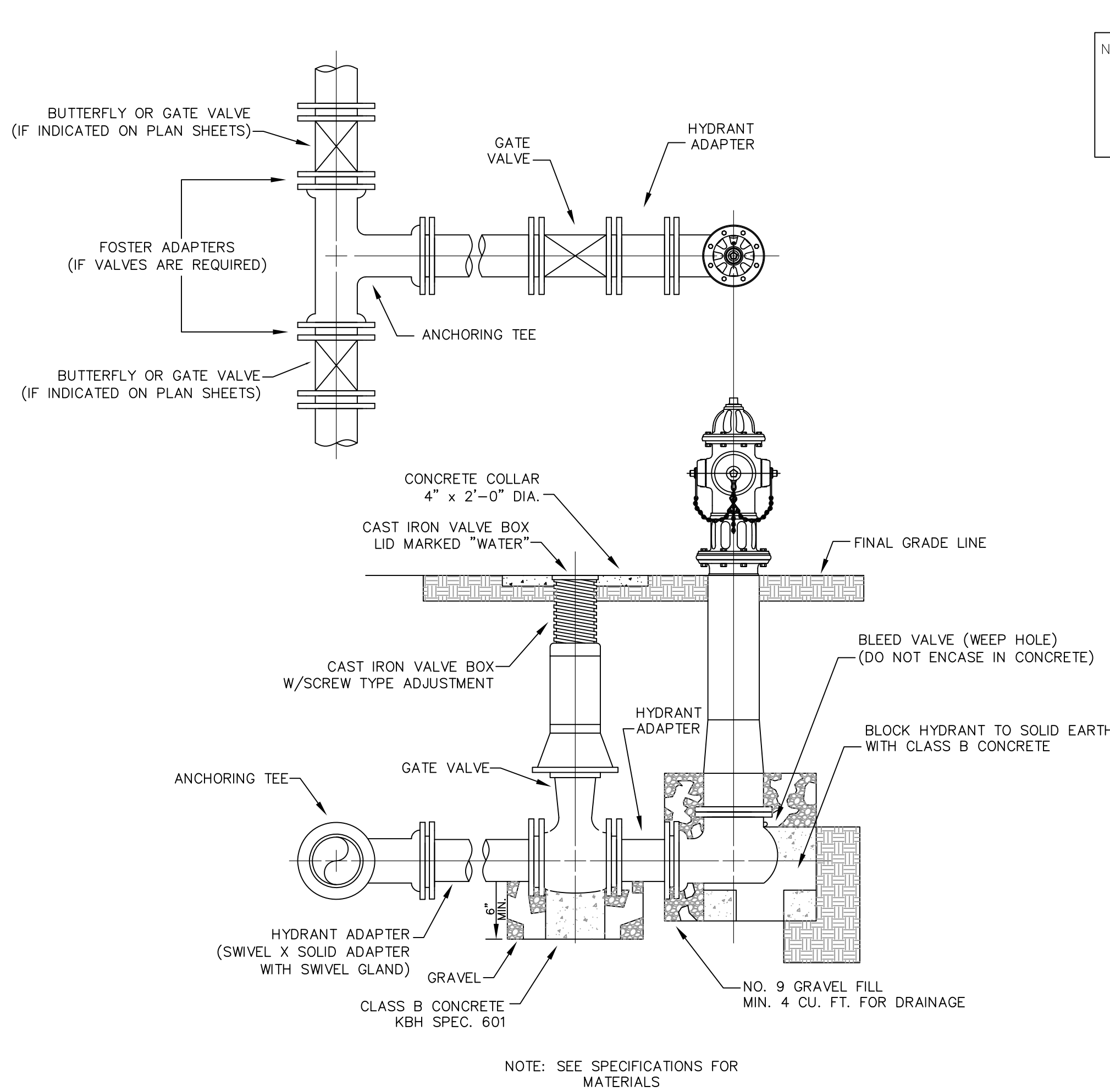
CHECKED BY: JLM

SCALE: N.T.S.

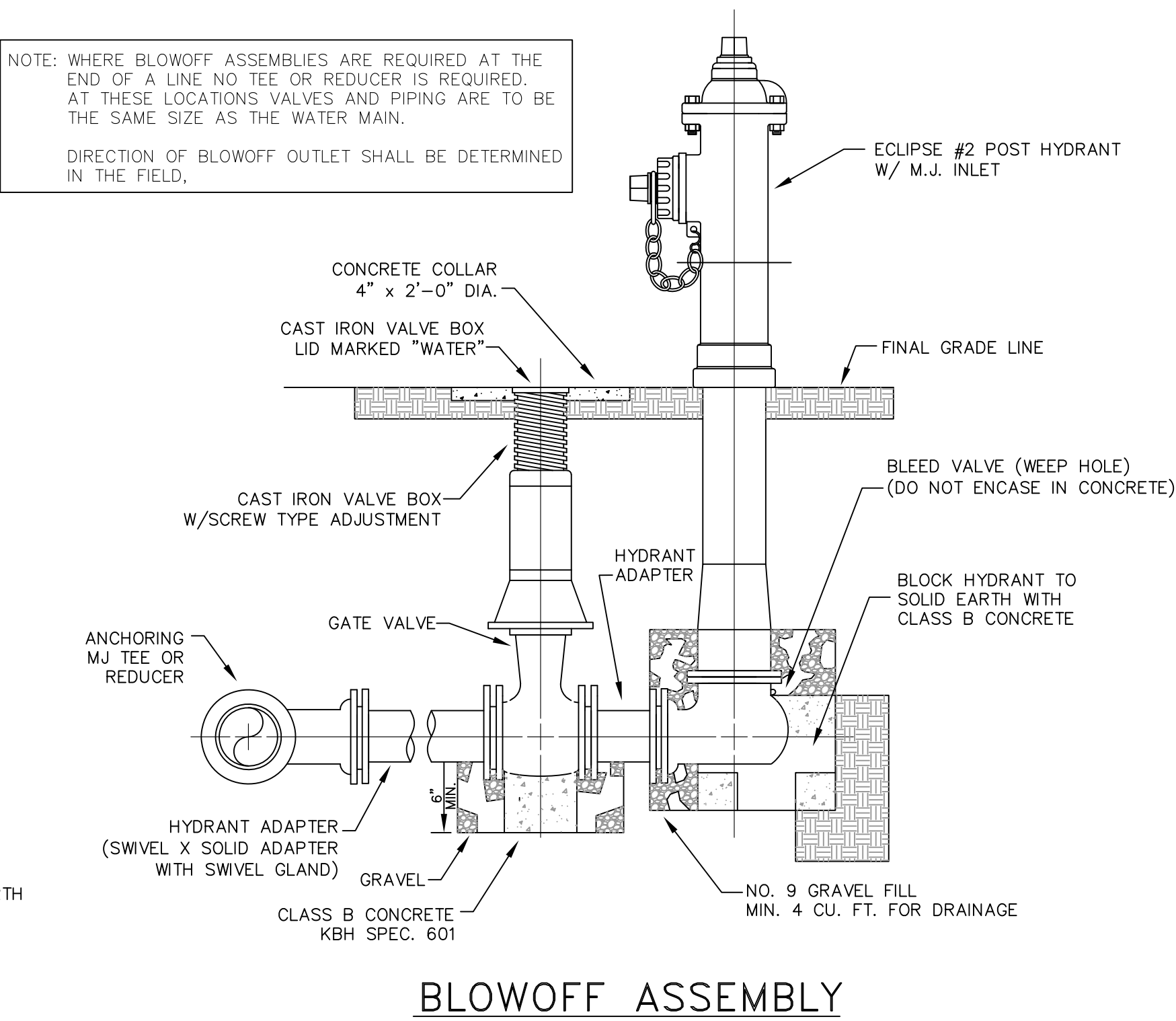
SHEET:

SD-1

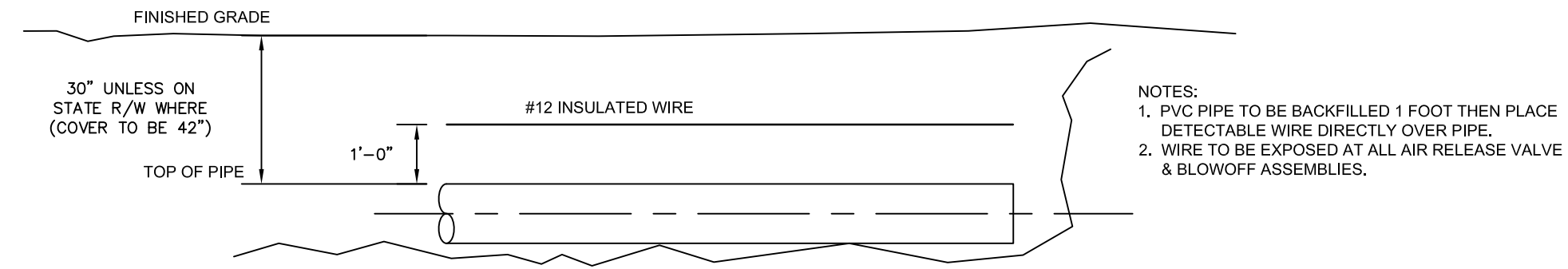
STATE OF KENTUCKY
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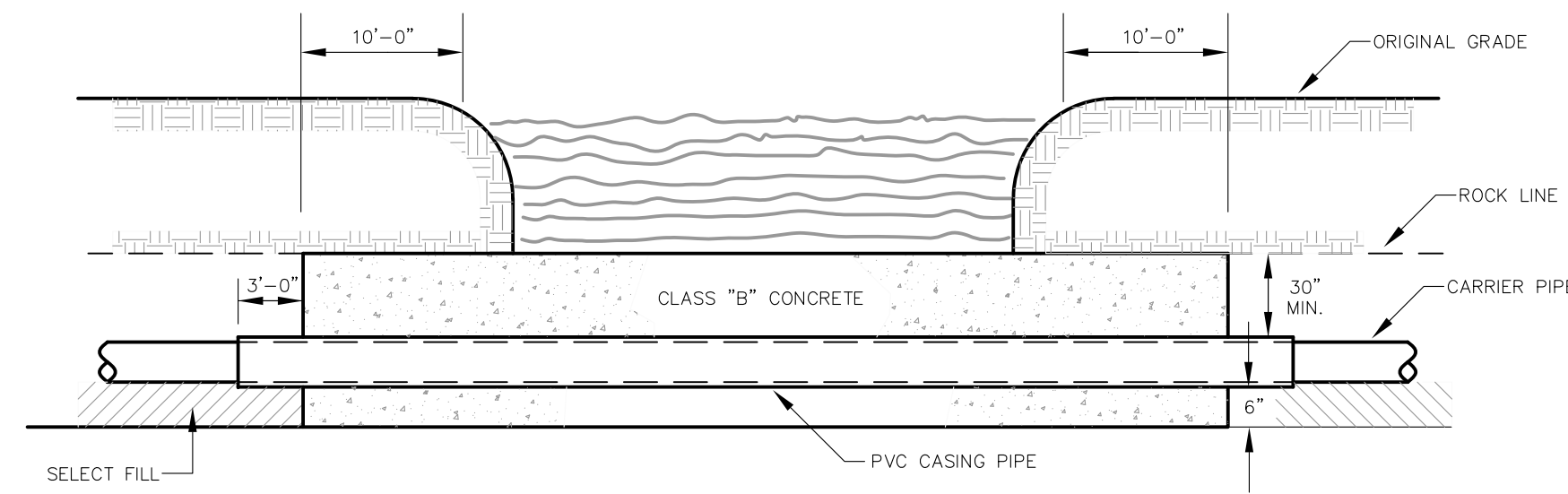
FLUSH HYDRANT ASSEMBLY



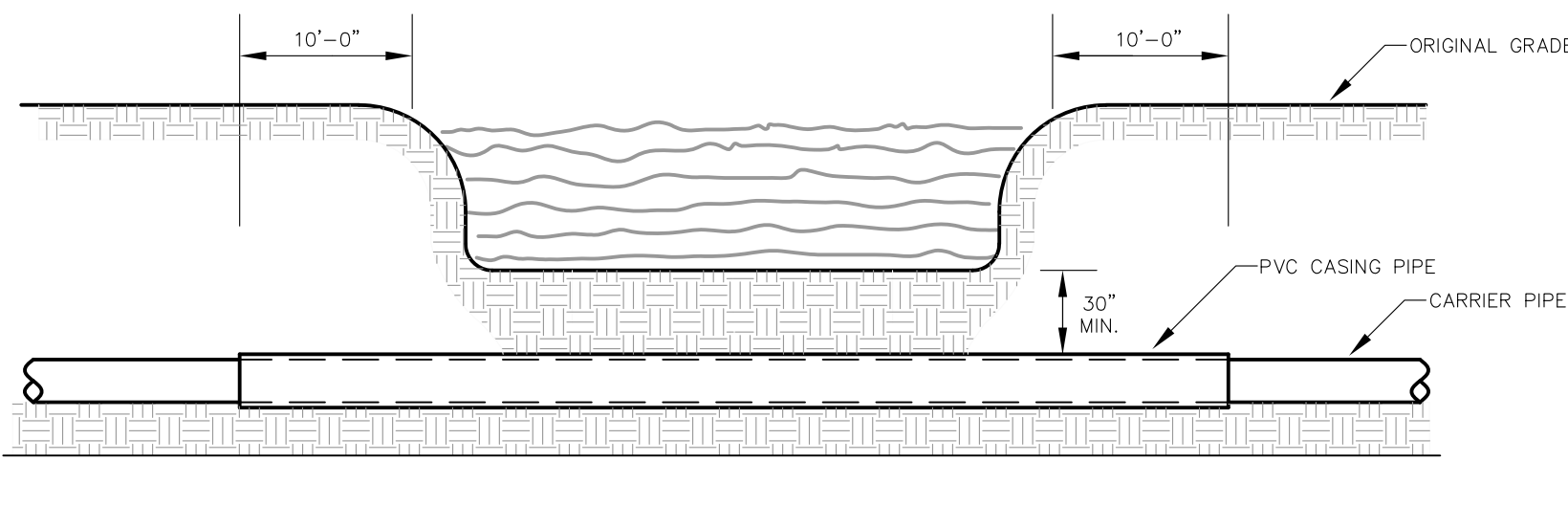
BLOWOFF ASSEMBLY



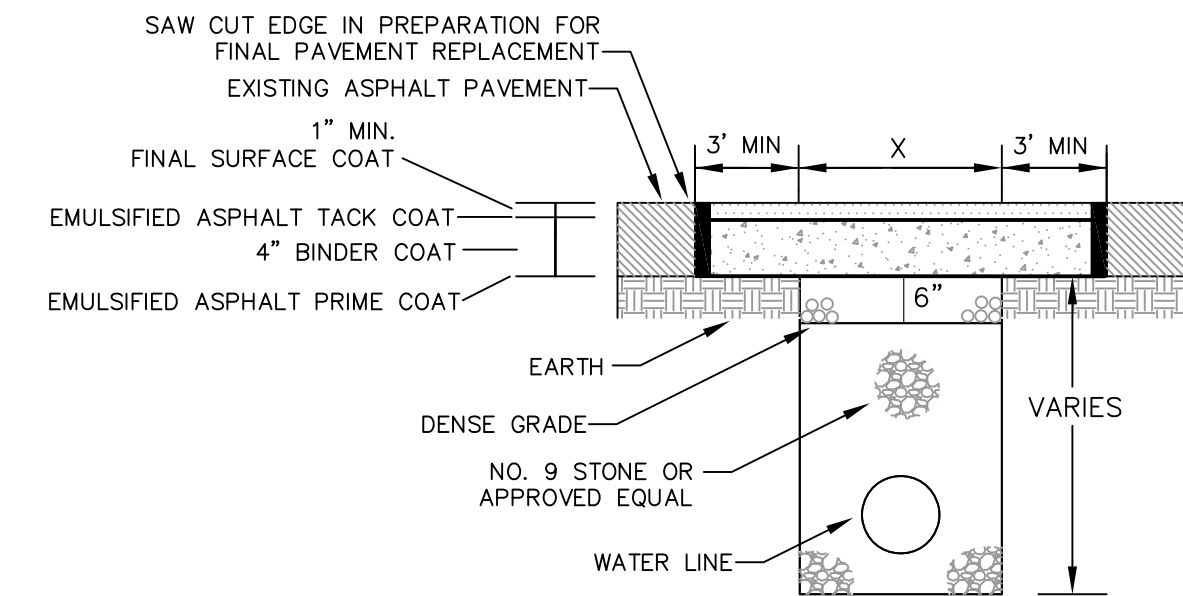
DETECTABLE WIRE INSTALLATION



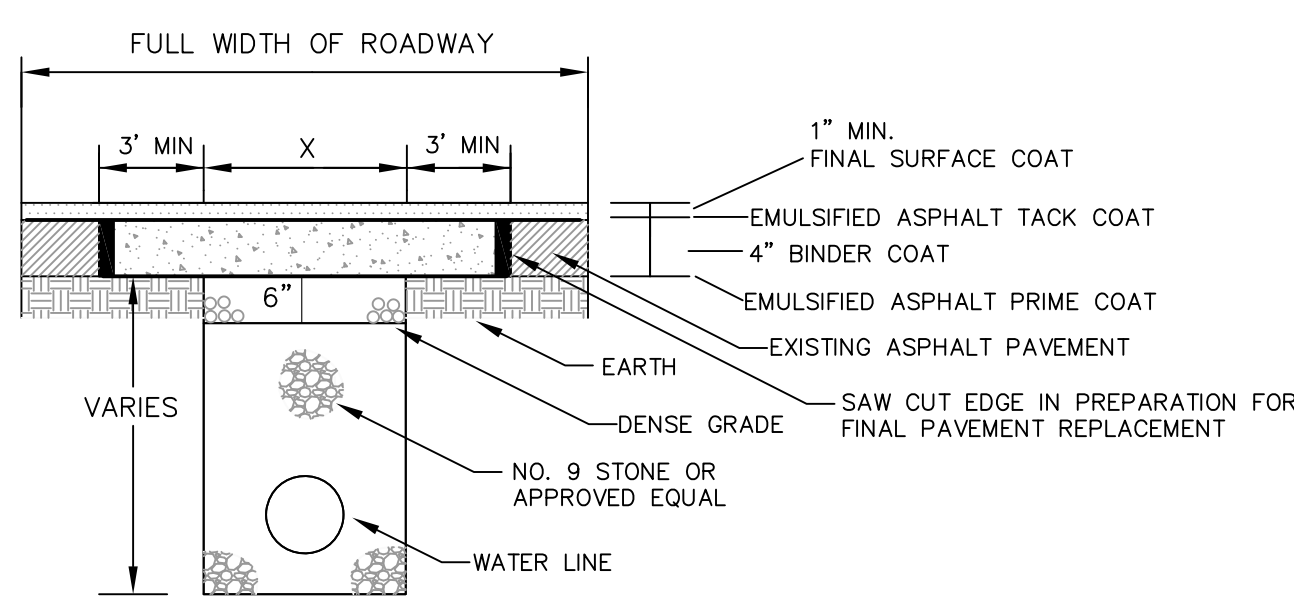
CREEK CROSSING IN ROCK



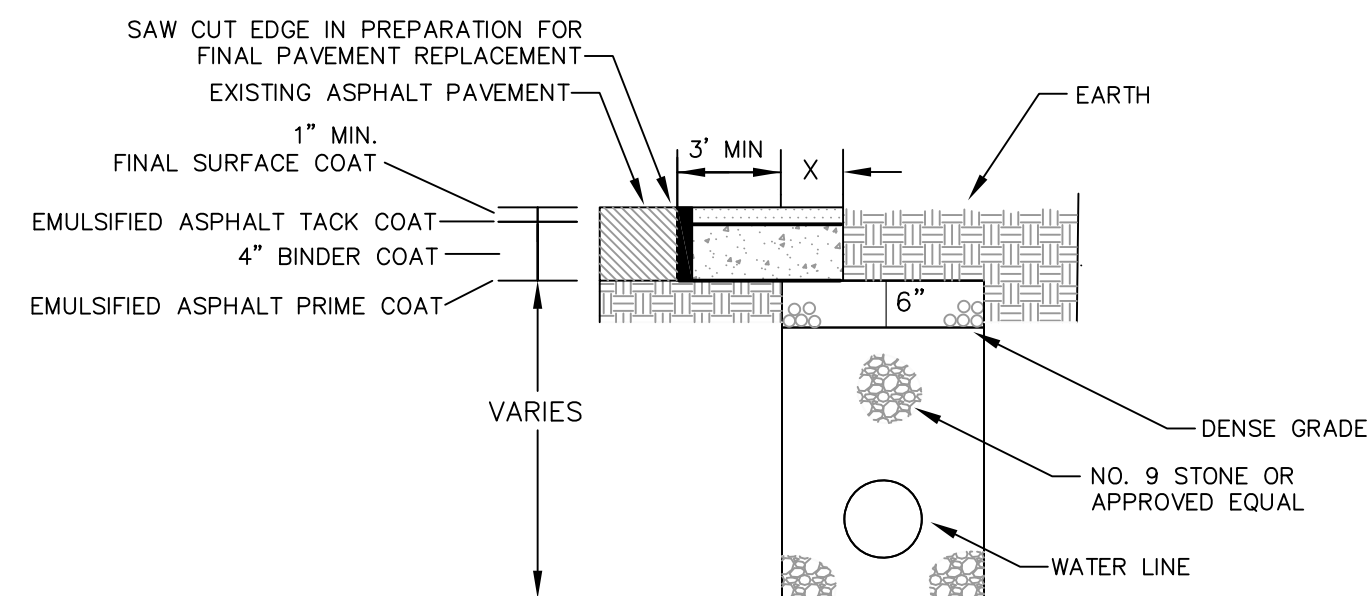
CREEK CROSSING IN SOIL



PAVEMENT REPLACEMENT



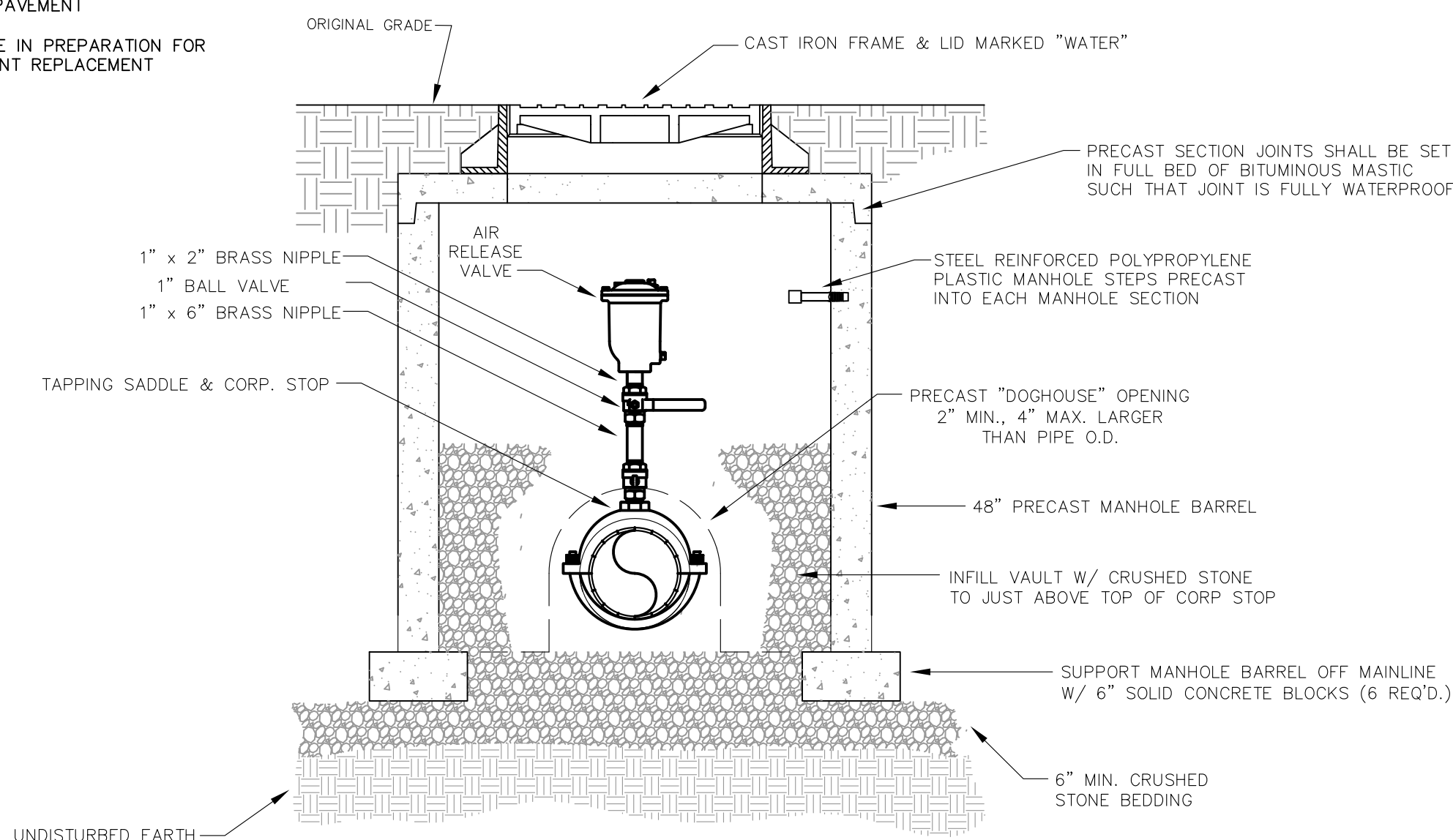
FULL WIDTH PAVEMENT REPLACEMENT



PARTIAL PAVEMENT REPLACEMENT

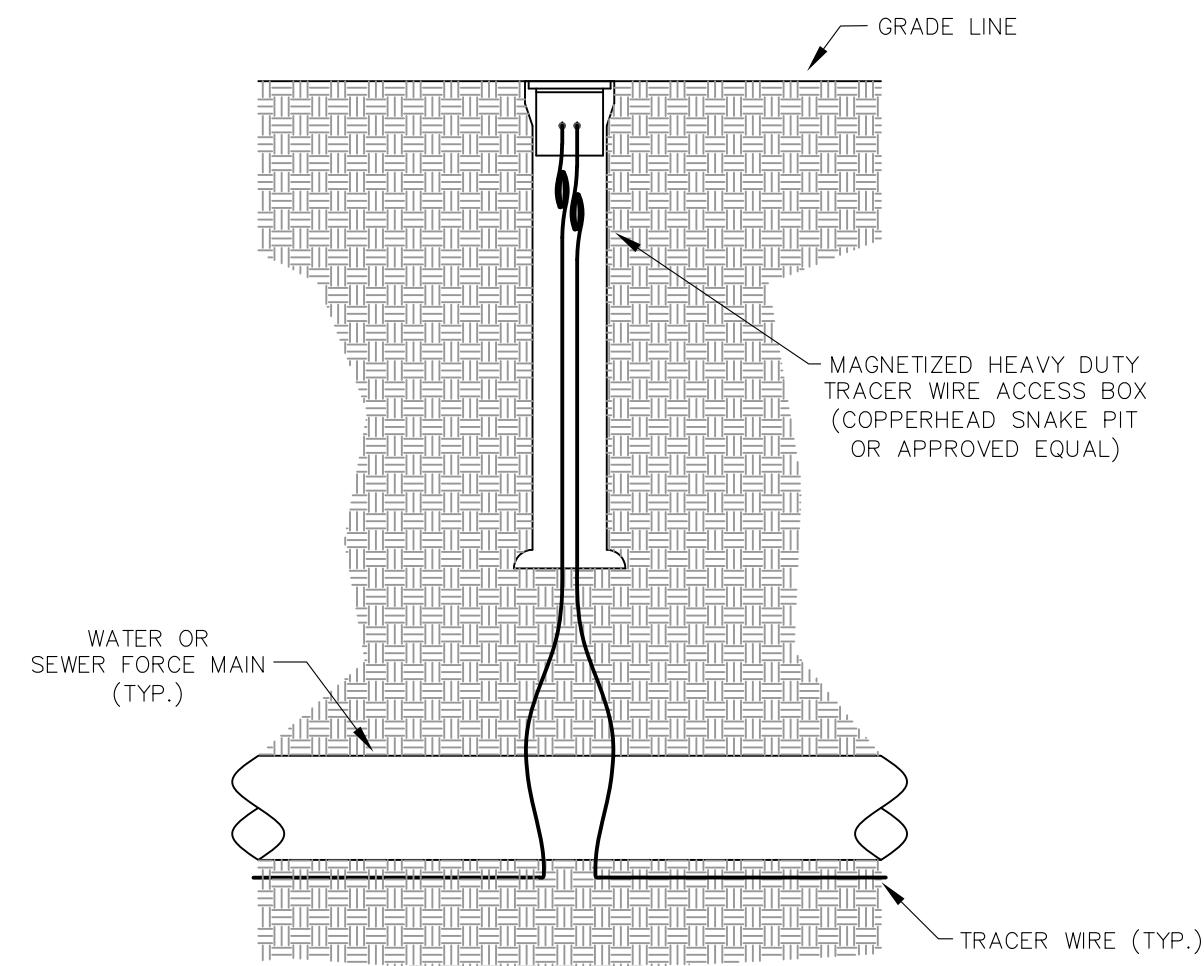
NOTES:
ANY TRENCH THAT DISTURBS PAVEMENT SHALL BE BACKFILLED WITH STONE
REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND DEPTH AS EXISTING PAVEMENT
ANY PUBLICLY TRAVELED AREA (I.E. COUNTY ROADS, BUSINESS ENTRANCES, BUSINESS
AND PUBLIC PARKING LOTS, ETC.) SHALL BE TEMPORARILY RESTORED AT THE END OF
EACH WORK DAY USING AN APPROVED COLD PATCH ASPHALT PAVEMENT

BITUMINOUS PAVEMENT REPLACEMENT

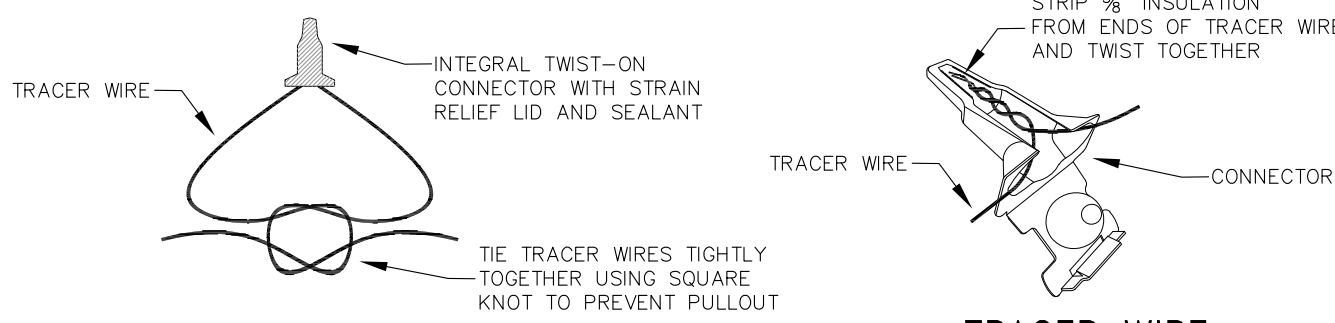


NOTE:
WHERE THE WATER LINE IS LOCATED IN A STREET OR
ROAD, THE AIR RELEASE VALVE AND BOX ARE TO BE
LOCATED OFF THE ROAD AS DIRECTED BY THE ENGINEER
AND CONNECTED TO THE MAINLINE BY 1\"/>

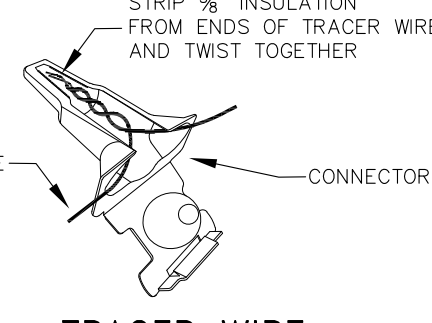
AIR RELEASE VALVE



TRACER WIRE ACCESS BOX



TRACER WIRE CONNECTION



TRACER WIRE CONNECTOR DETAIL

NOTES:
FOR OPEN CUT INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER WITH
30 MIL BLUE HMWPE INSULATION. FOR TRENCHLESS INSTALLATION, TRACER WIRE IS TO
BE #12 AWG SOLID COPPER CLAD STEEL CORE WITH 45 MIL BLUE HDPE INSULATION.
TRACER WIRE SHALL BE INSTALLED WITH THE PIPE AT THE TRENCH BOTTOM. ACCESS
BOXES SHALL BE INSTALLED AT EACH VALVE, HYDRANT AND AIR RELEASE VALVE. TRACER
WIRE ACCESS BOXES SHALL BE SPACED NO FURTHER THAN 1000' APART. A MINIMUM OF
3 FEET OF TRACER WIRE SHOULD BE COILED UP INSIDE OF EACH ACCESS BOX.

TRACER WIRE DETAILS

Monarch Engineering, Inc.

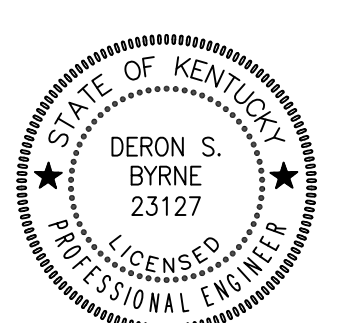
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

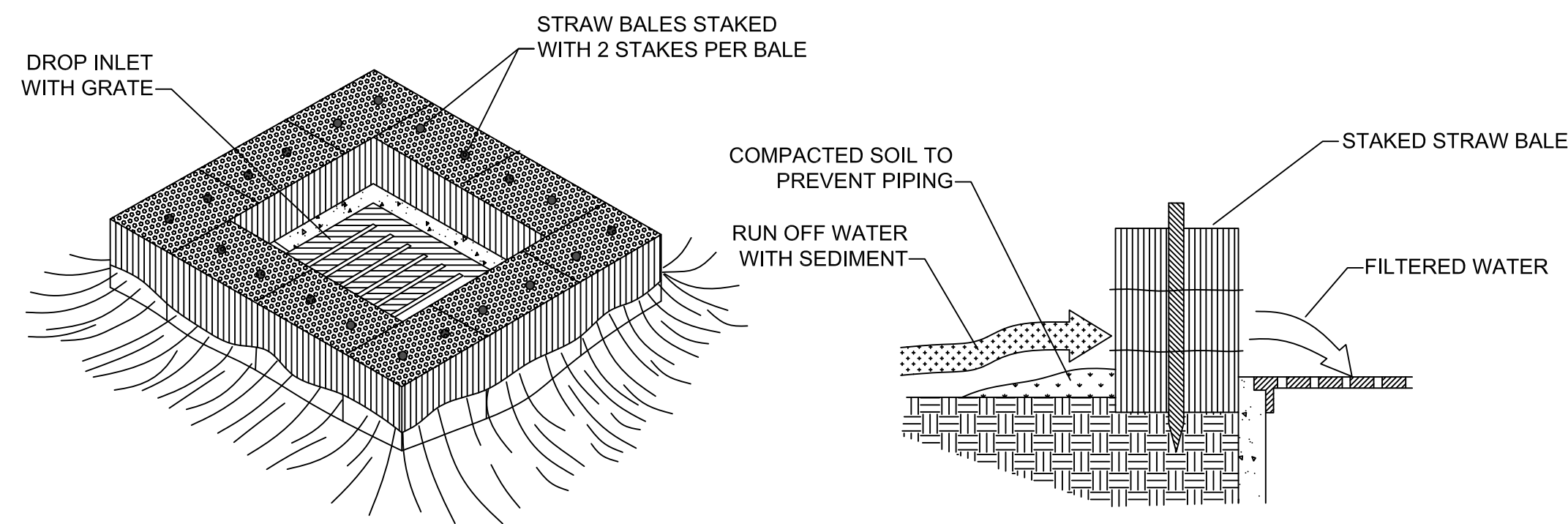
STANDARD DETAIL DRAWINGS

CUSTOMER:
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY

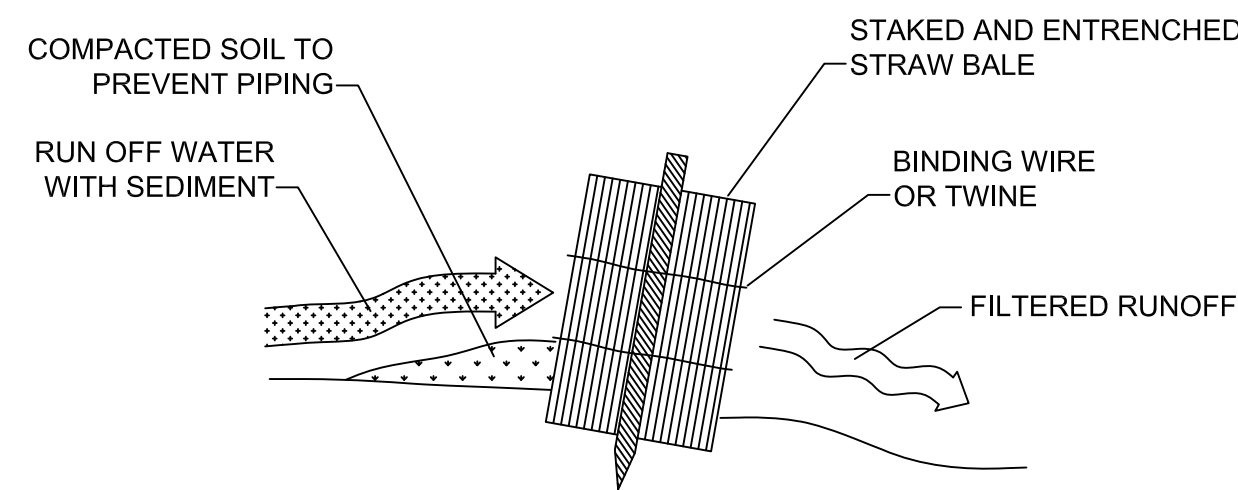
PROJECT NO. 2505
DATE: APRIL 2025
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SCALE: N.T.S.

SHEET:
SD-2

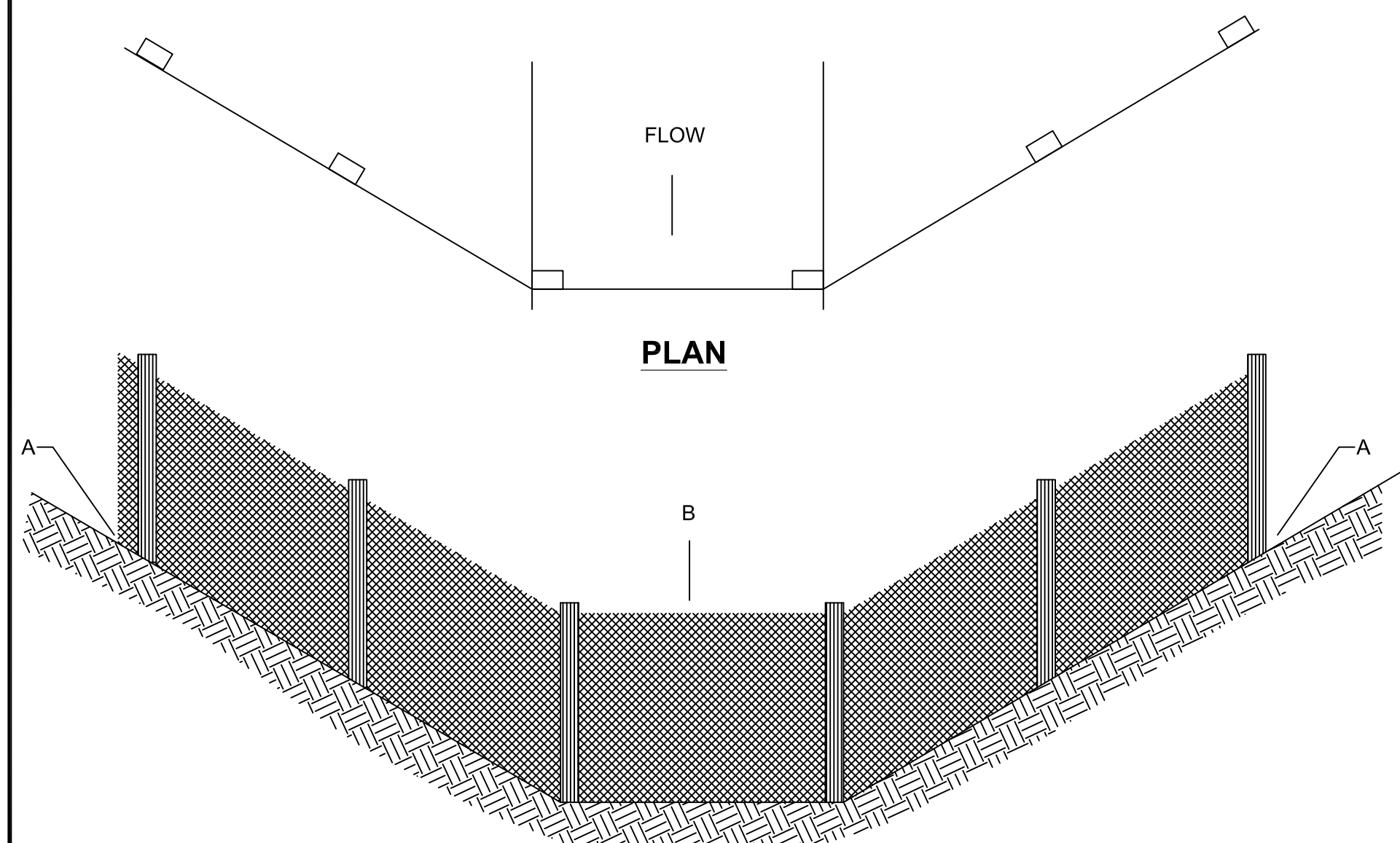




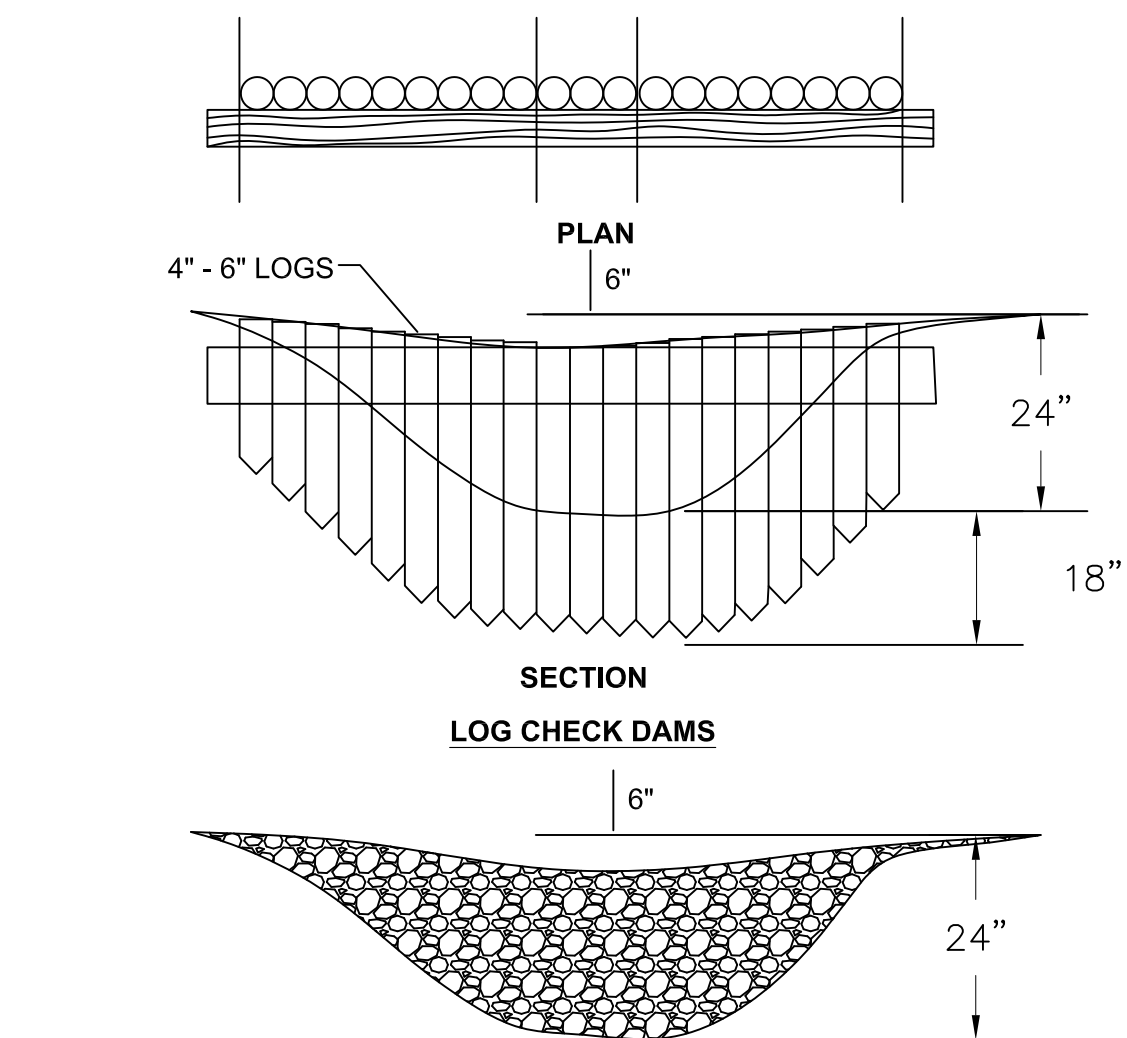
STRAW BALE DROP INLET SEDIMENT FILTER
N.T.S.



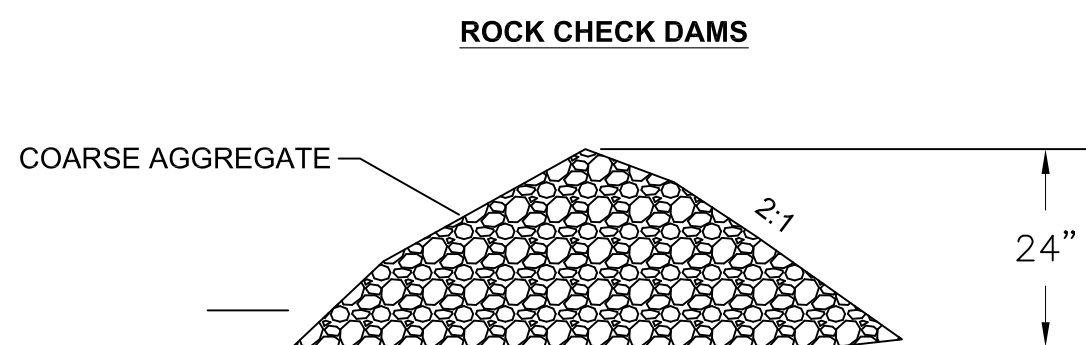
STRAW BALE INSTALLATION PROCEDURES
N.T.S.



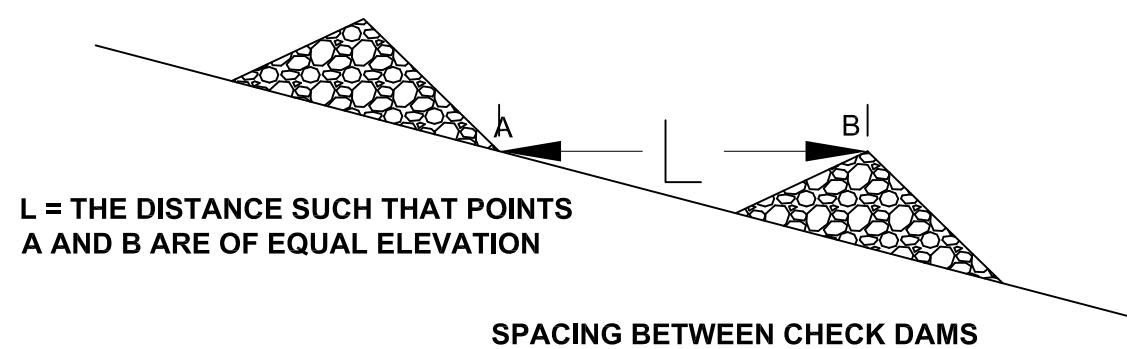
PLACEMENT OF FILTER BARRIER
N.T.S.



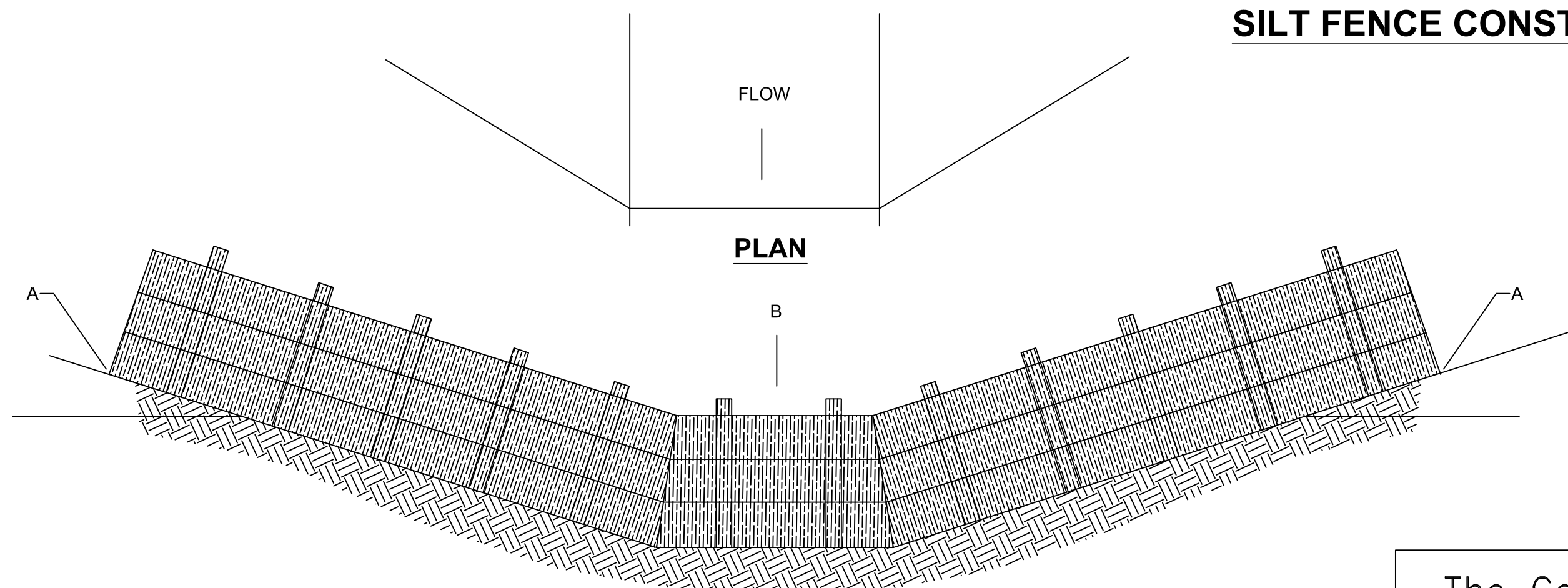
LOG CHECK DAMS



ROCK CHECK DAMS

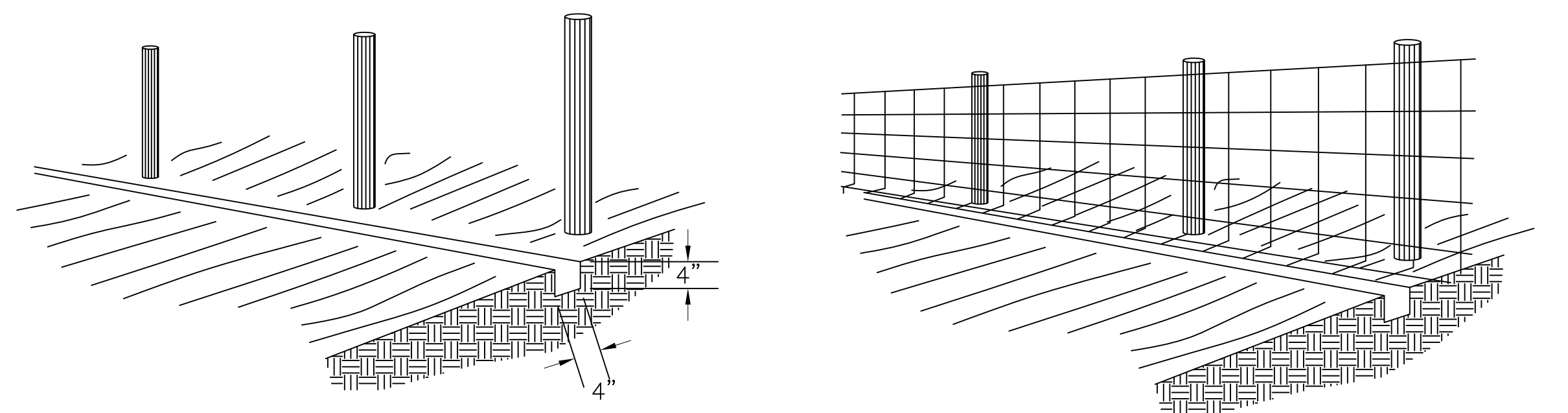


CHECK DAM DETAILS
N.T.S.

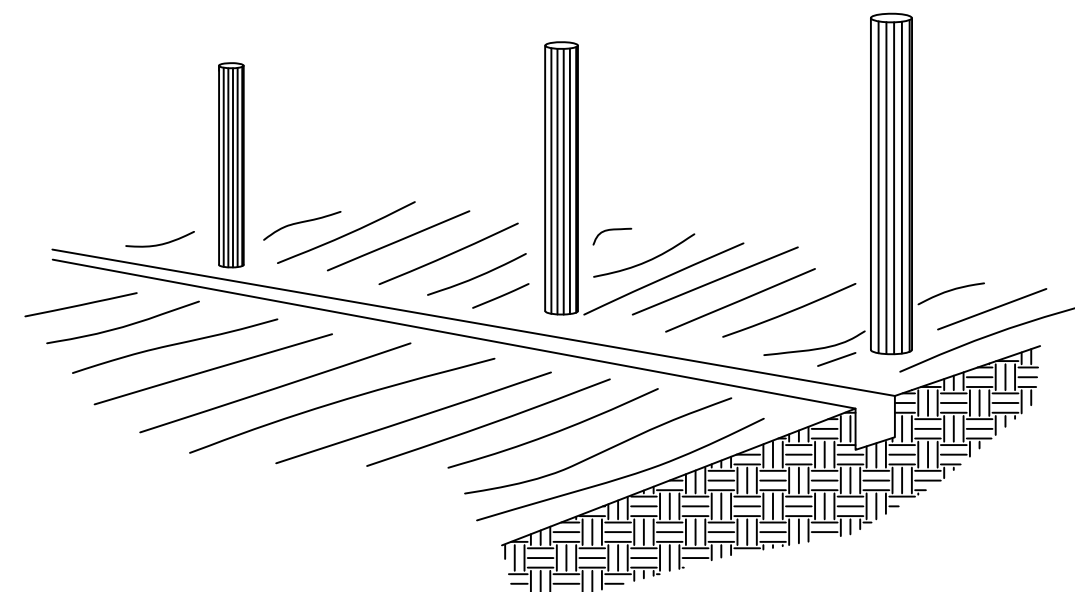


PLACEMENT OF STRAW BALE BARRIER
N.T.S.

EROSION CONTROL DETAILS
N.T.S.

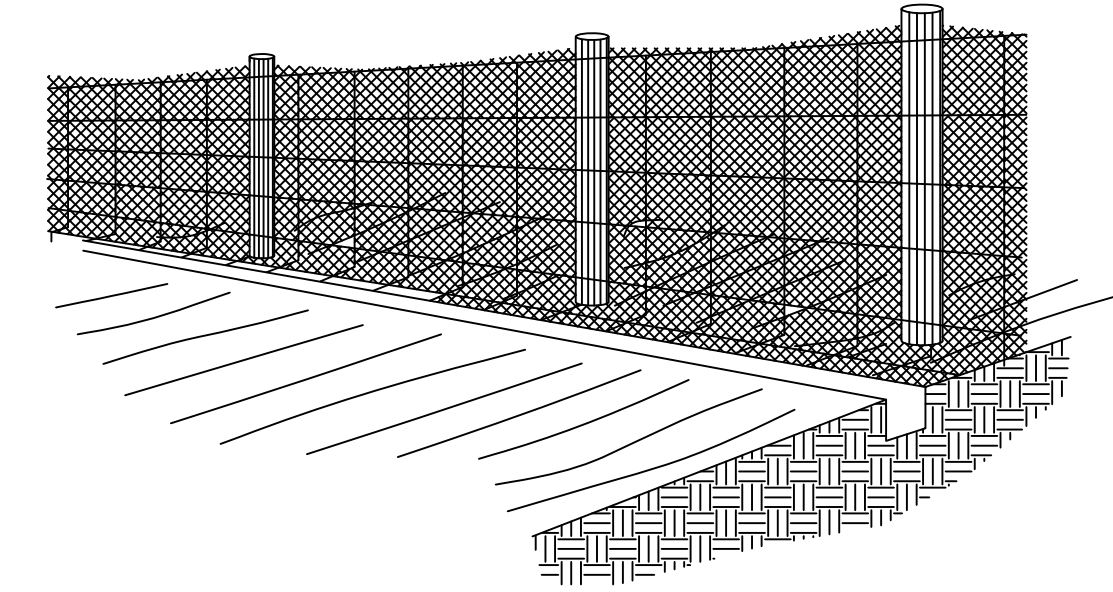


1. SET POSTS AND EXCAVATE A 4" x 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS

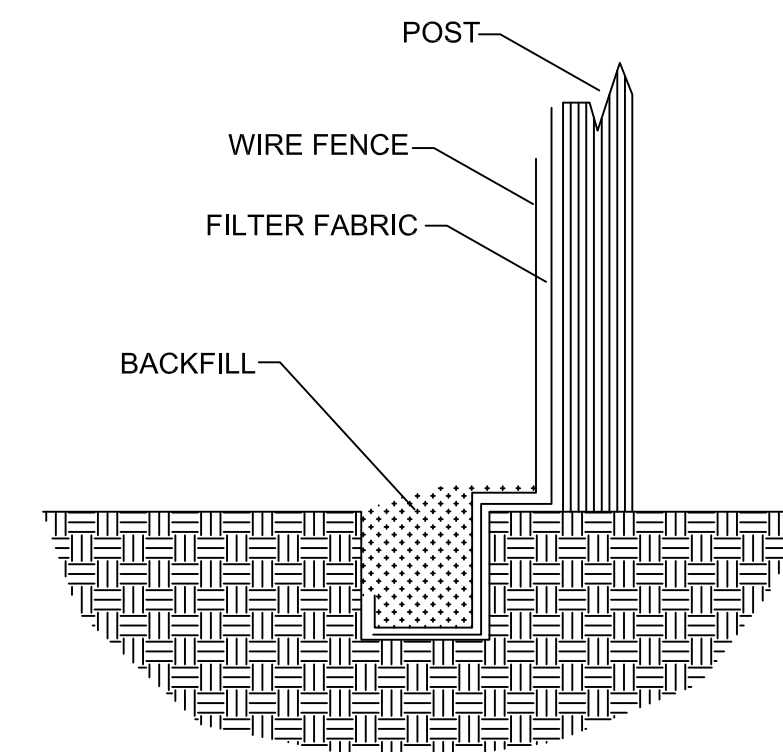


3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH

2. STAPLE WIRE FENCING TO POSTS



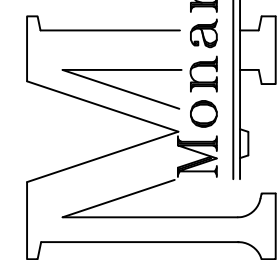
4. BACKFILL AND COMPACT THE EXCAVATED SOIL



EXTENSION OF FABRIC AND WIRE INTO THE TRENCH

SILT FENCE CONSTRUCTION PROCEDURES
N.T.S.

The Contractor shall do all work and take all measures necessary to control soil erosion resulting from construction operations, and shall prevent the flow of sediment from the construction site, and shall contain construction materials (including excavation and backfill) within their protected working area so as to prevent damage to the adjacent wetlands and water courses. The Contractor shall use any of the acceptable methods necessary to control soil erosion and prevent the flow of sediment to the maximum extent possible. These methods shall include, but not be limited to, the use of water diversion structures, diversion ditches, and settling basins.



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LAWRENCEBURG, KY 40342

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EROSION CONTROL DETAILS

CUSTOMER:

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PULASKI COUNTY, KENTUCKY

PROJECT NO. 2505

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SCALE: AS NOTED

SHEET:

EC-1

