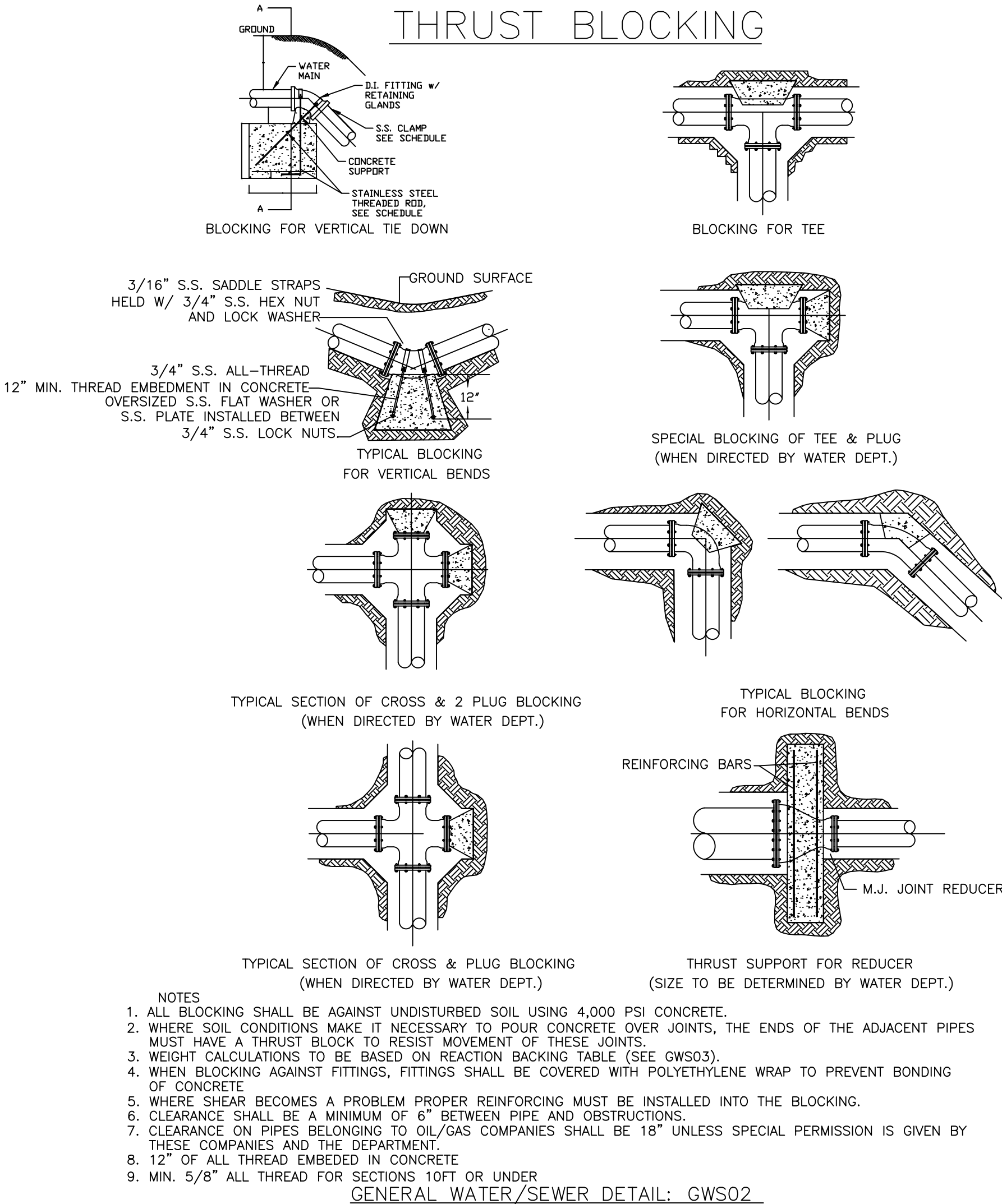
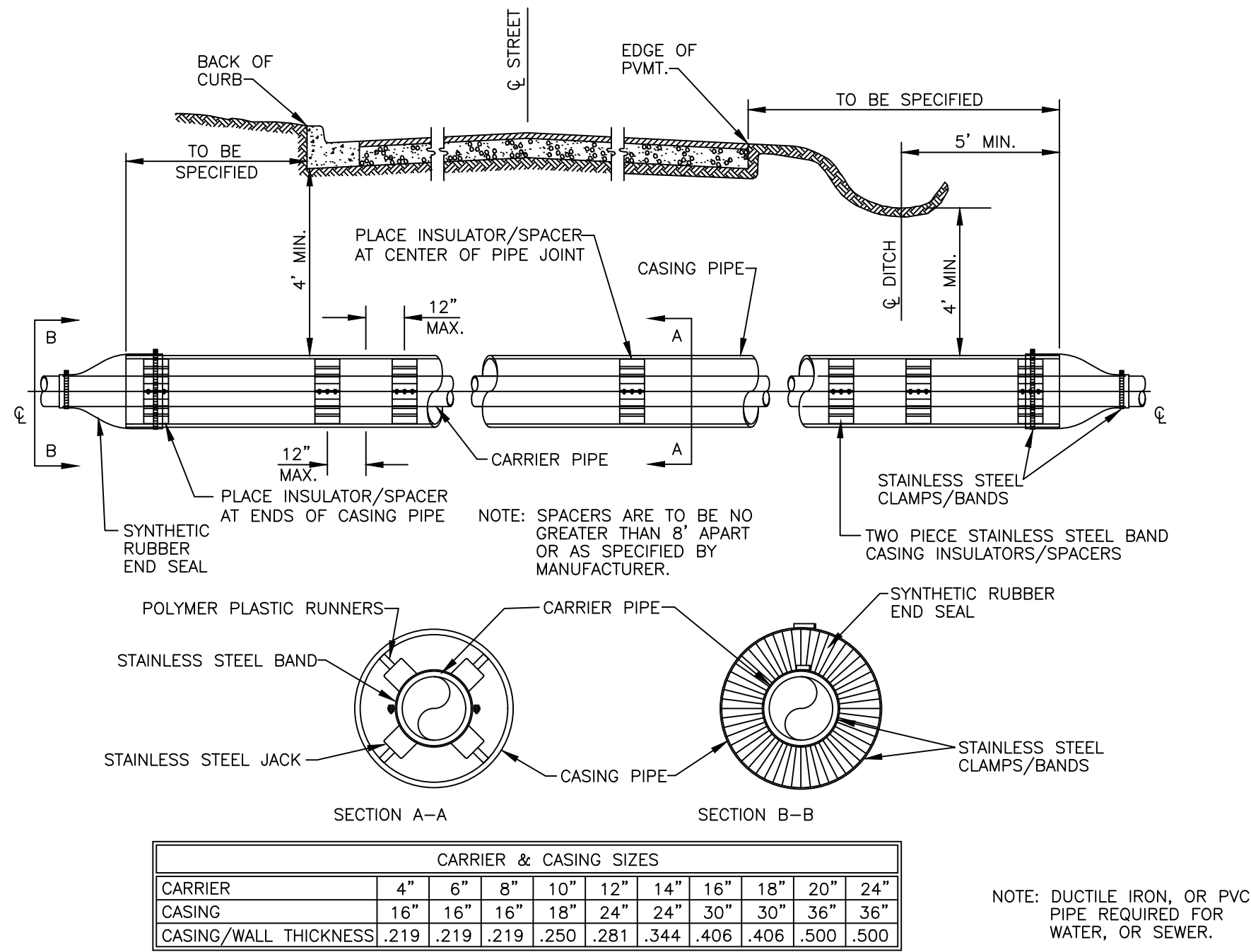


ENCASEMENT DETAIL



REACTION BACKING TABLE

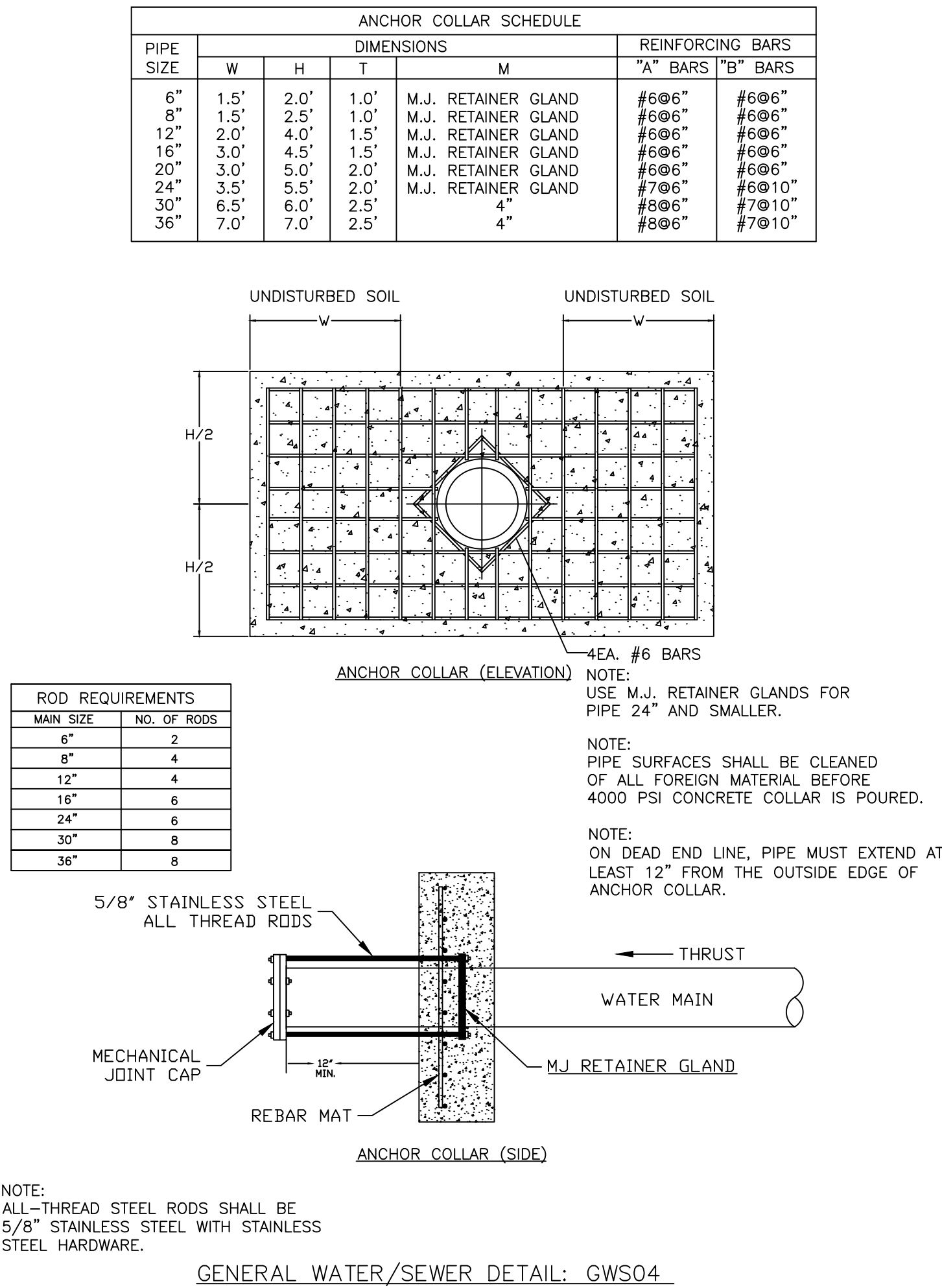
BLOCKING SCHEDULE						
PIPE SIZE		BENDS			ROD DIA.	
		45°	22 1/2°	11 1/4°		
8"	VOLUME REQ'D (CU. FT.)	98.5	50.2	25.2	3/4 IN.	
	A (FT.)	5.00'	4.00'	3.00'		
	B (FT.)	4.00'	3.20'	2.80'		
	C (FT.)	5.00'	4.00'	3.00'		
	MIN. CLAMP (2 EA.)	3/8 IN. x 2 IN.				
12"	VOLUME REQ'D (CU. FT.)	209.5	106.8	53.7	3/4 IN.	
	A (FT.)	6.00'	5.00'	4.00'		
	B (FT.)	6.00'	4.25'	3.50'		
	C (FT.)	6.00'	5.00'	4.00'		
	MIN. CLAMP (2 EA.)	1/2 IN. x 2 IN.				
18"	VOLUME REQ'D (CU. FT.)	457.2	233.1	117.1	1 IN.	
	A (FT.)	8.00'	6.50'	5.00'		
	B (FT.)	7.25'	5.50'	4.75'		
	C (FT.)	8.00'	6.50'	5.00'		
	MIN. CLAMP (2 EA.)	5/8 IN. x 3 IN.				
24"	VOLUME REQ'D (CU. FT.)	800.3	408.0	205.0	1 1/4 IN.	
	A (FT.)	9.50'	7.50'	6.00'		
	B (FT.)	9.00'	7.25'	5.75'		
	C (FT.)	9.50'	7.50'	6.00'		
	MIN. CLAMP (2 EA.)	5/8 IN. x 3 IN.				
VOLUME CALCULATED ON THE BASIS OF CONCRETE REACTING THRUST ON THE RESPECTIVE BENDS UNDER AN INTERNAL PRESSURE OF 250 PSI, 50 PSI SURGE AND THE WEIGHT OF CONCRETE IS 150 POUNDS PER CU. FT.						

- NOTES:
1. ALL FITTINGS SHALL BE MECHANICAL JOINTS.
  2. DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
  3. WRAP ALL FITTINGS WITH POLY WRAP.
  4. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
  5. BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
  6. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL, SHALL BE BACKED WITH CONCRETE.
  7. REACTION BACKING TABLE IS BASED ON 150 PSI AND SOIL BEARING PRESSURE OF 2,000 LB/SQ. FT. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS REQUIRED BY CITY WATER DEPARTMENT.

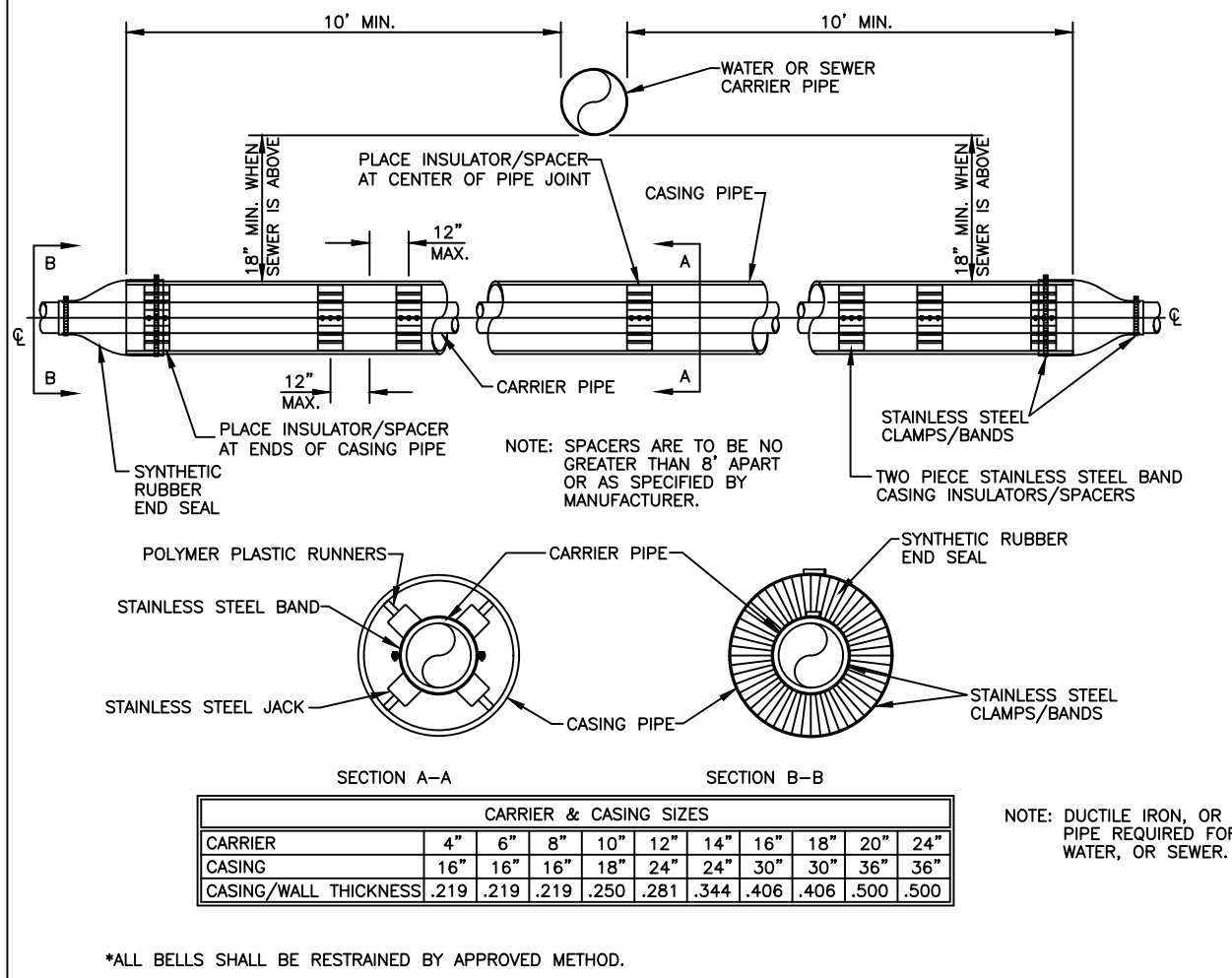
GENERAL WATER/SEWER DETAIL: GWS01

GENERAL WATER/SEWER DETAIL: GWS03

ANCHOR COLLAR SPECIFICATIONS



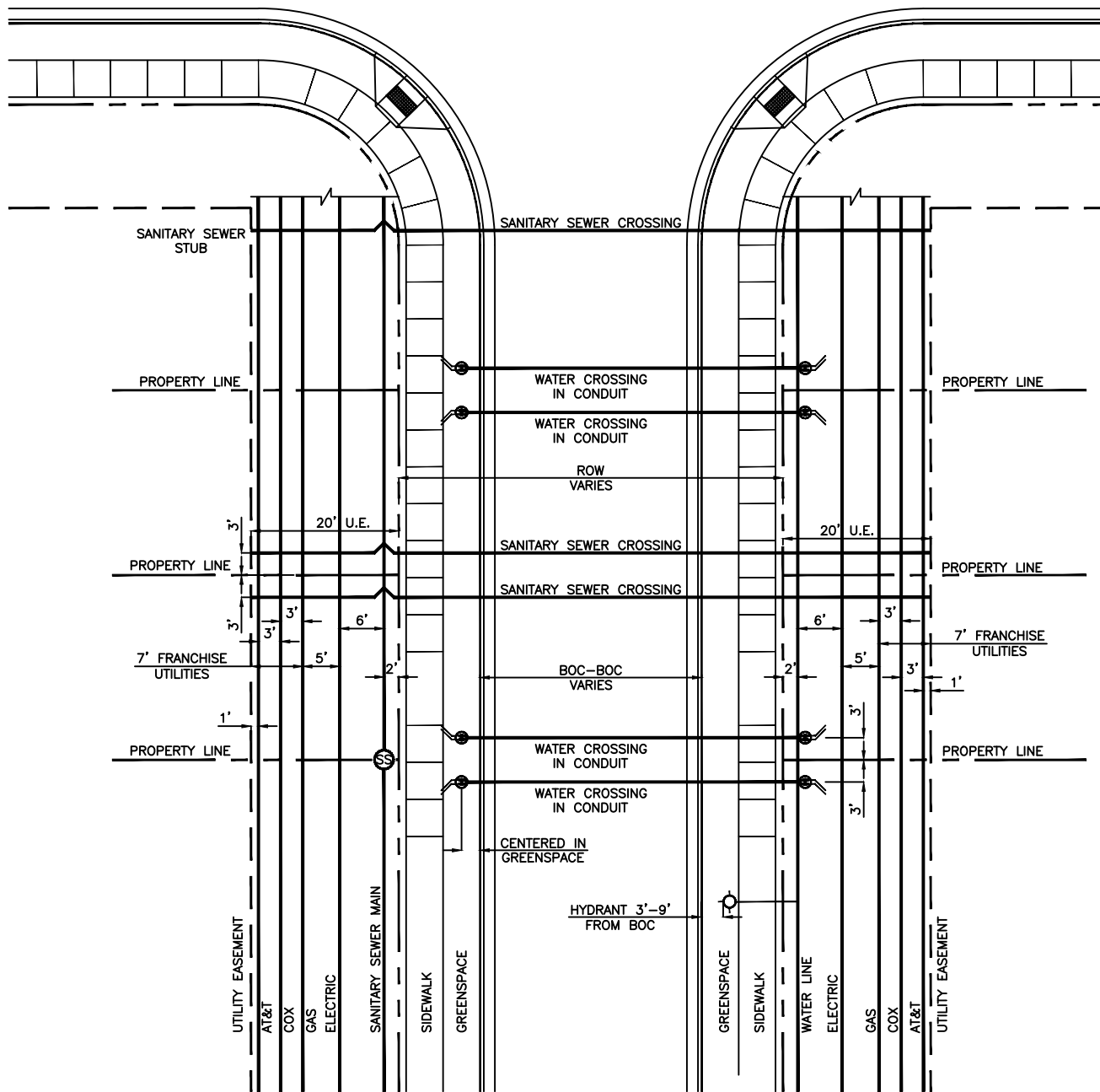
ENCASEMENT CROSSING DETAIL



\*ALL BELLS SHALL BE RESTRAINED BY APPROVED METHOD.

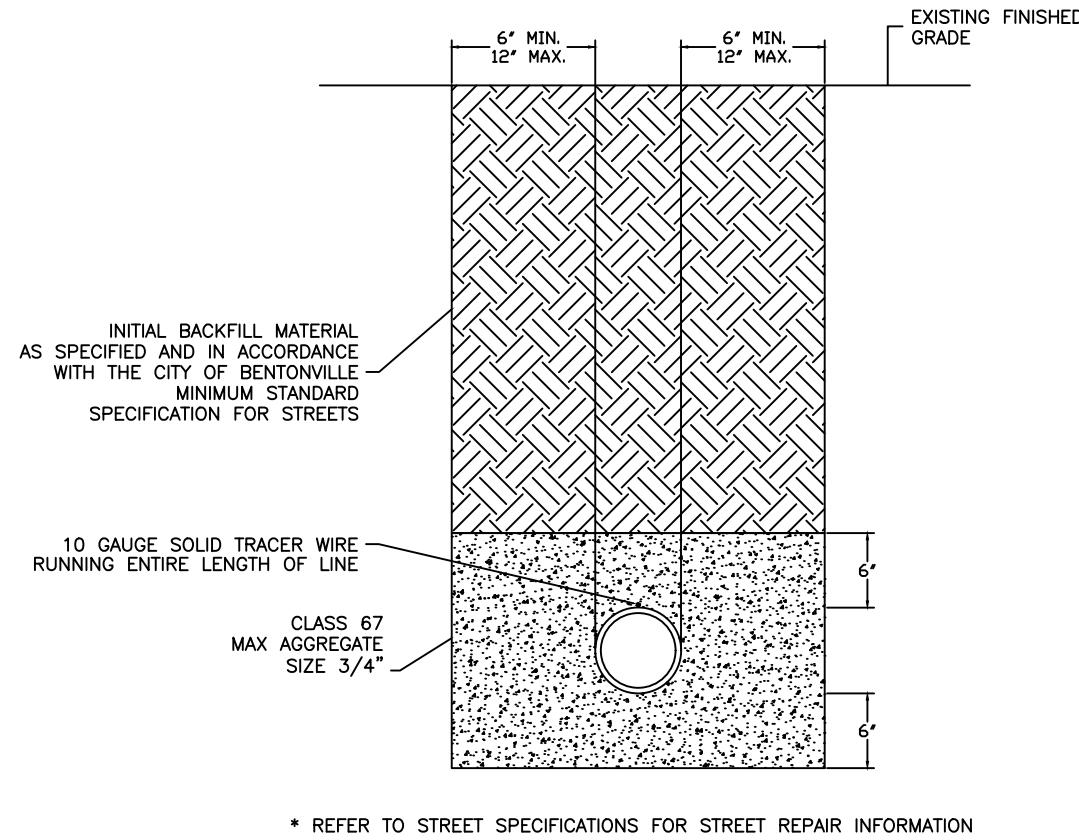
GENERAL WATER/SEWER DETAIL: GWS05

SUBDIVISION UTILITY PLACEMENT

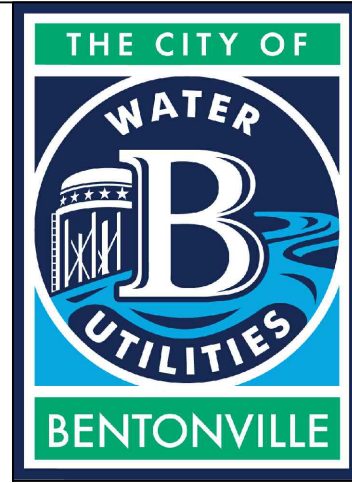


GENERAL WATER/SEWER DETAIL: GWS06

TYPICAL BEDDING DETAIL

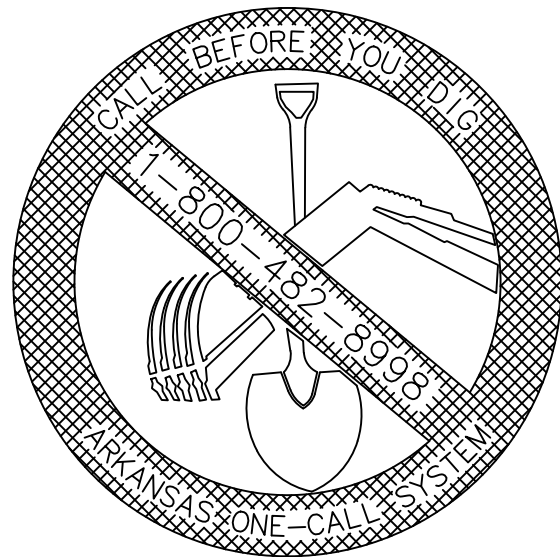


GENERAL WATER/SEWER DETAIL: GWS07



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WATER/SEWER DETAILS

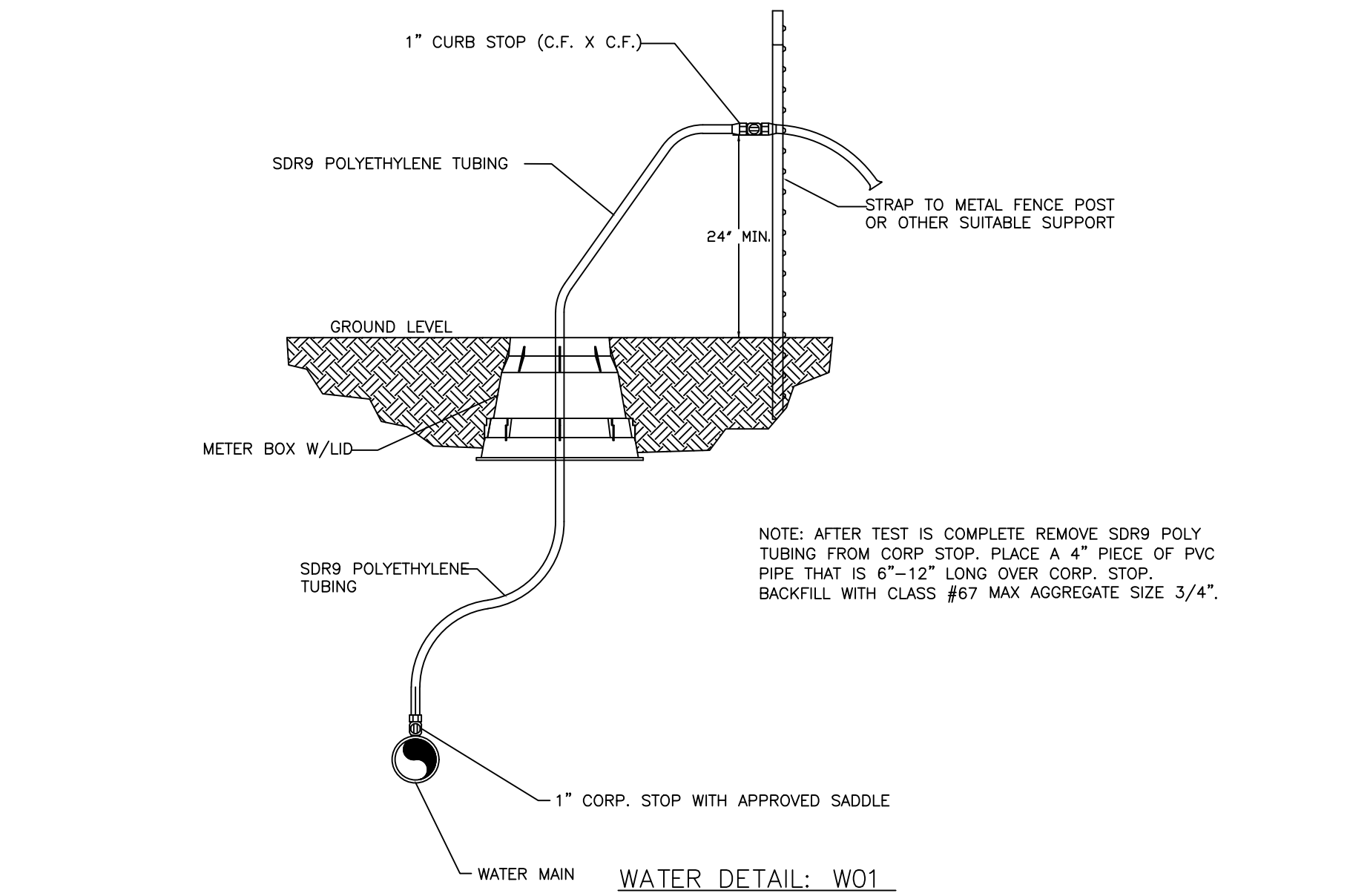


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SHEET NUMBER:	1	OF	1

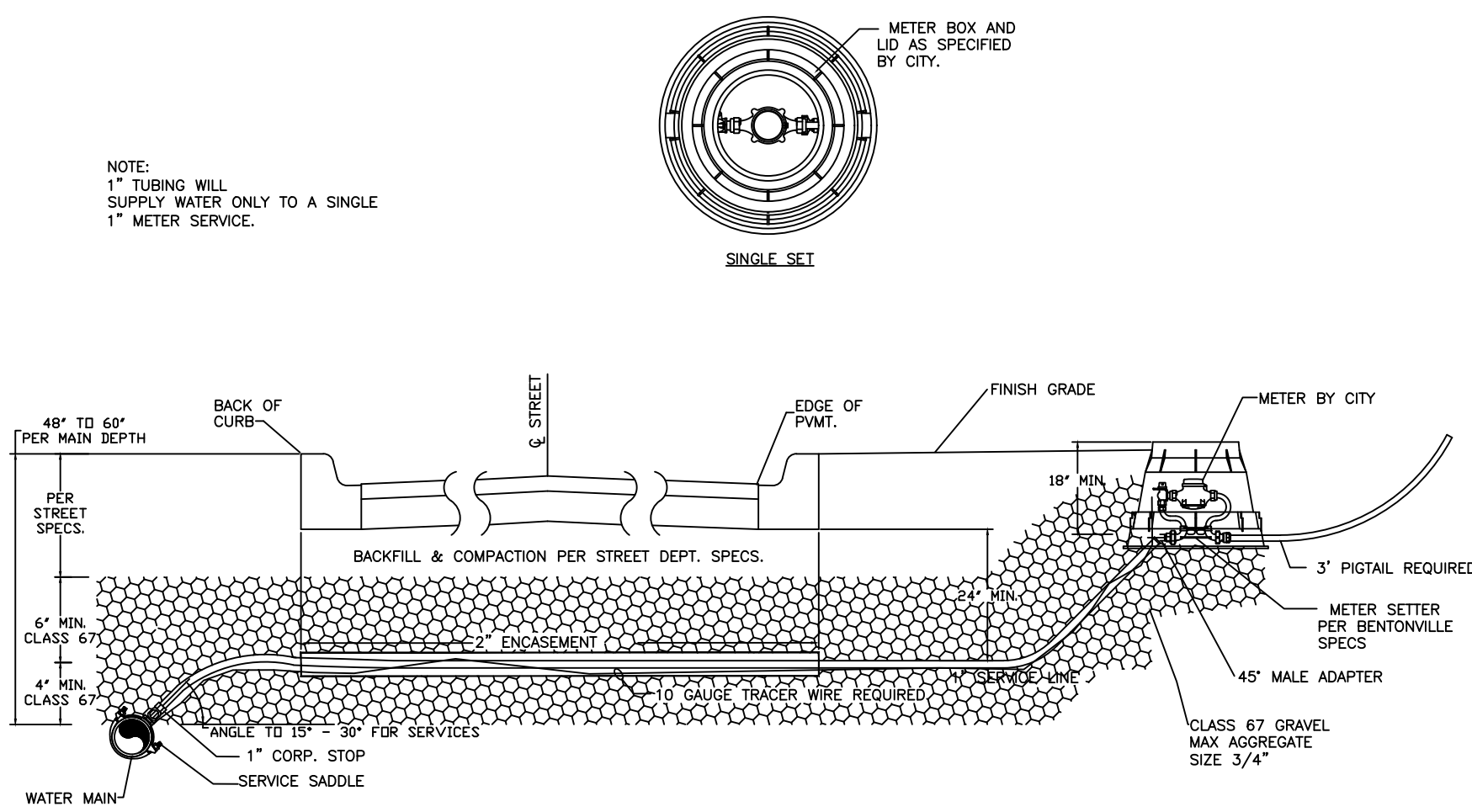


TEMPORARY 1" BLOW OFF ASSEMBLY  
SAMPLE POINTS



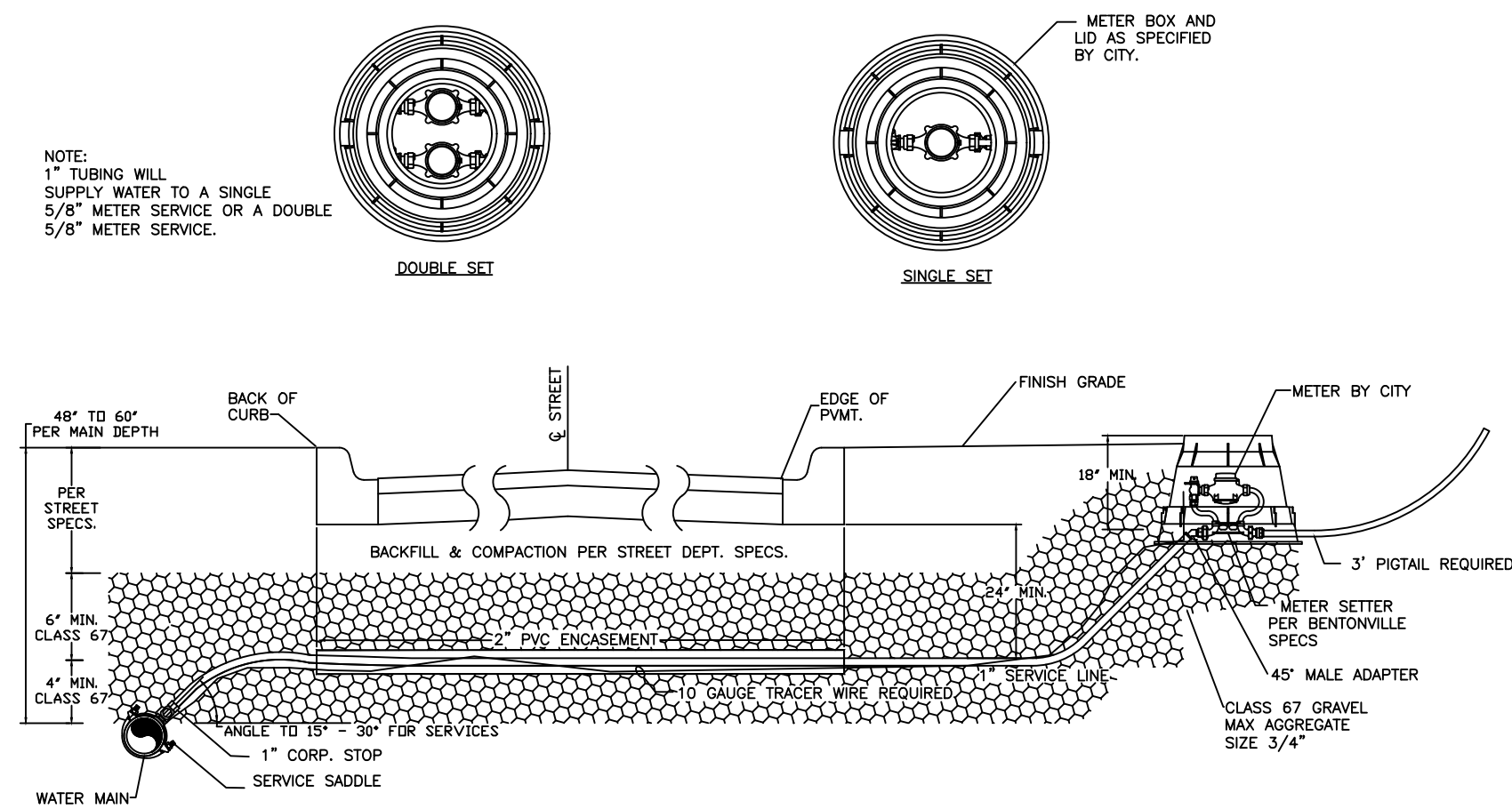
WATER DETAIL: W01

WATER SERVICE DETAIL 1"



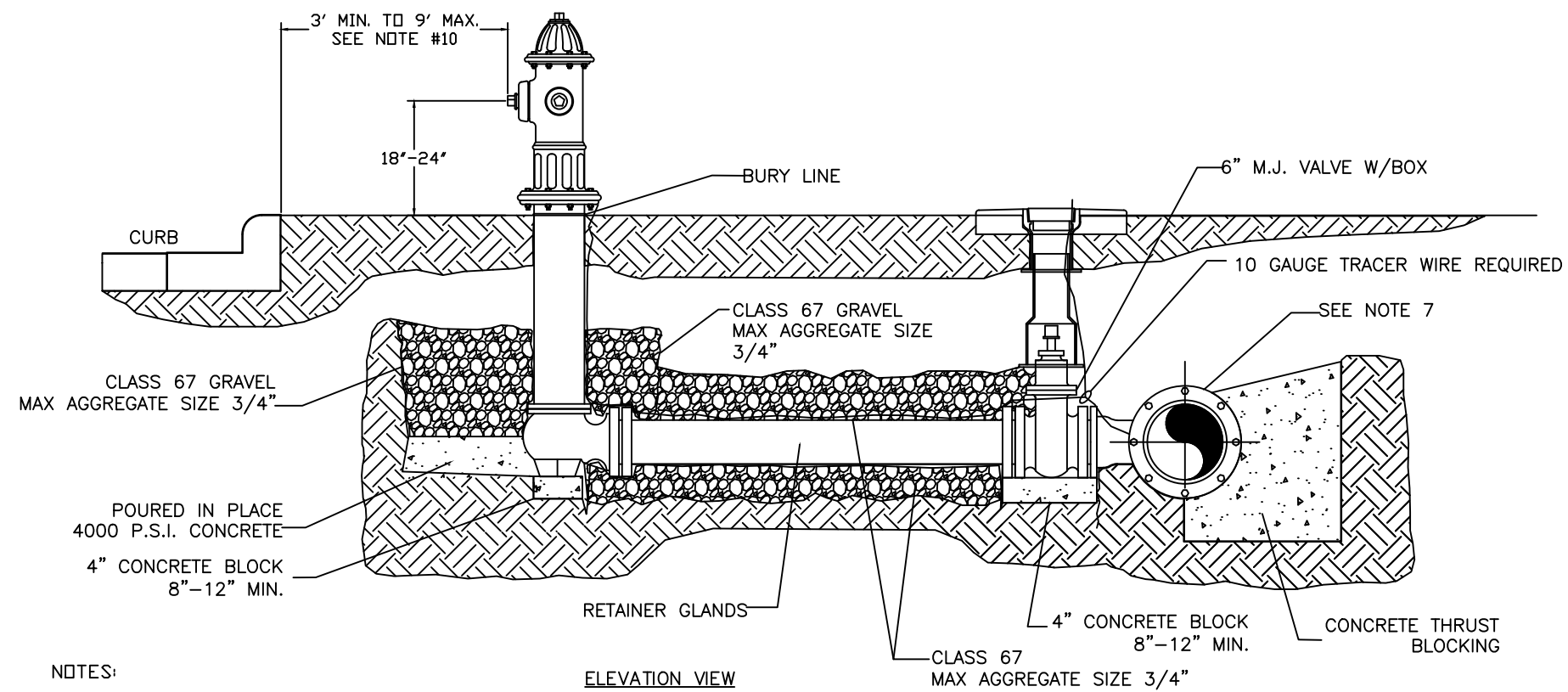
WATER DETAIL: W02

WATER SERVICE DETAIL 5/8"



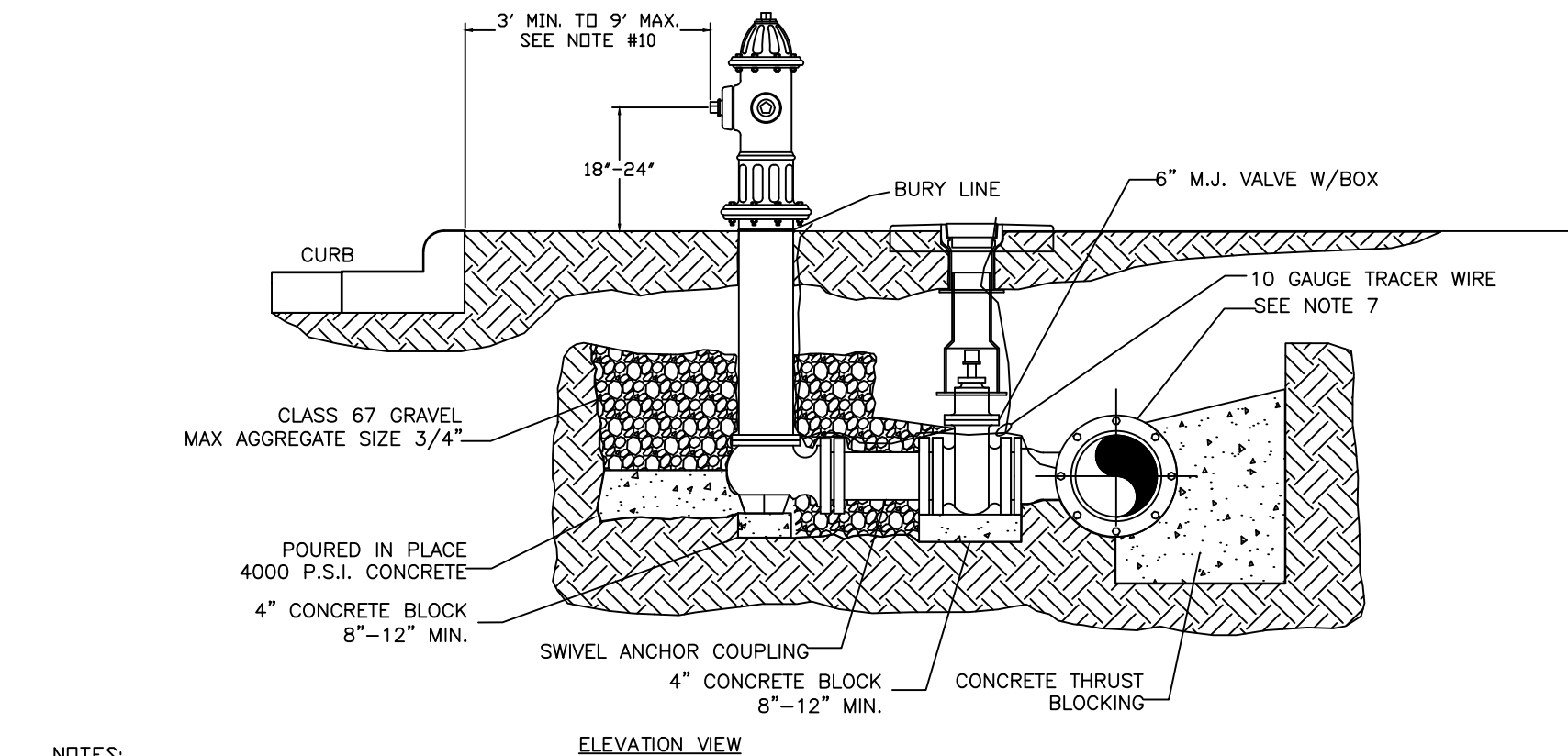
WATER DETAIL: W03

FIRE HYDRANT DETAIL W/  
RETAINER GLANDS



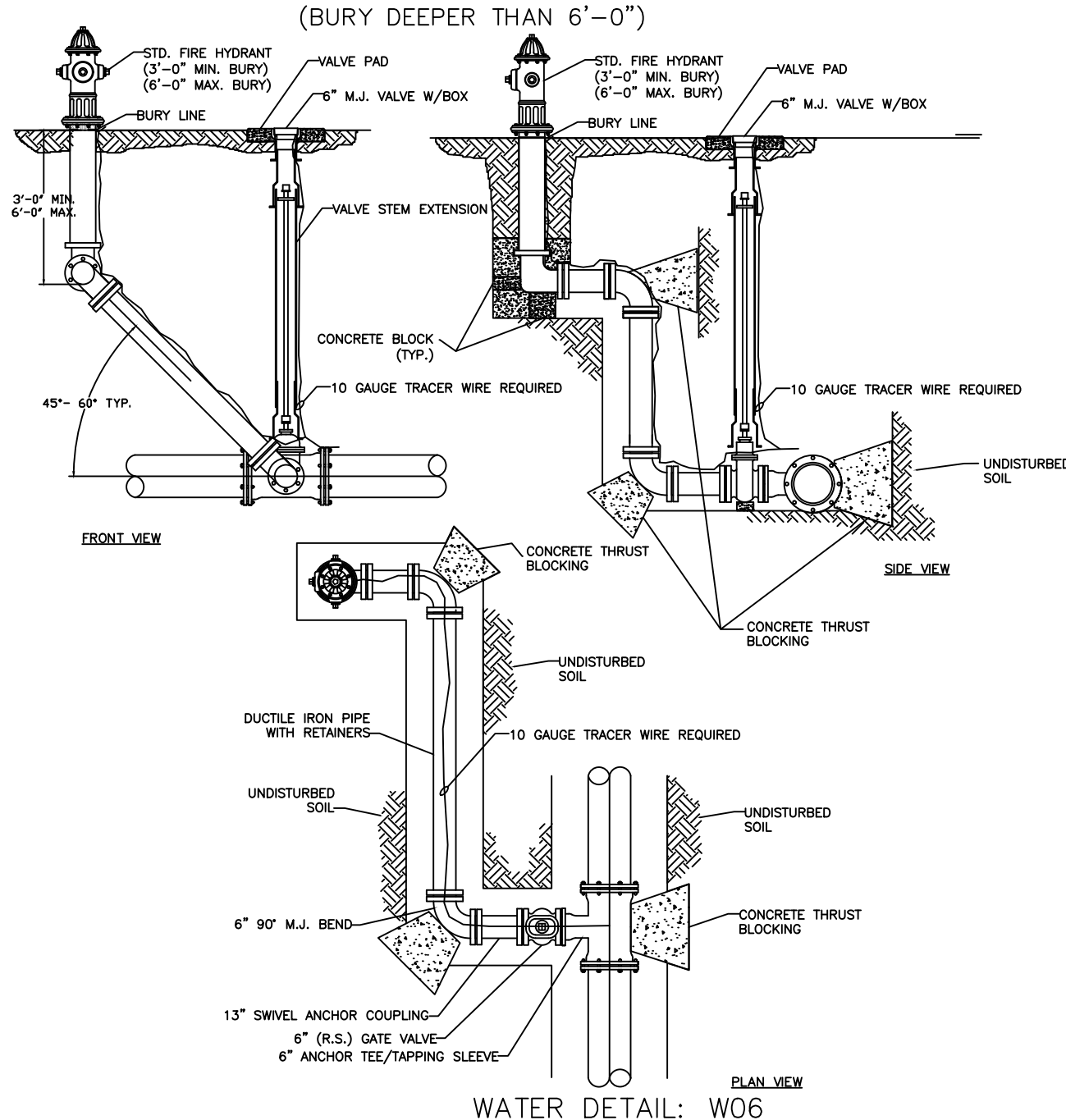
WATER DETAIL: W04

FIRE HYDRANT DETAIL W/SWIVEL ANCHOR COUPLING



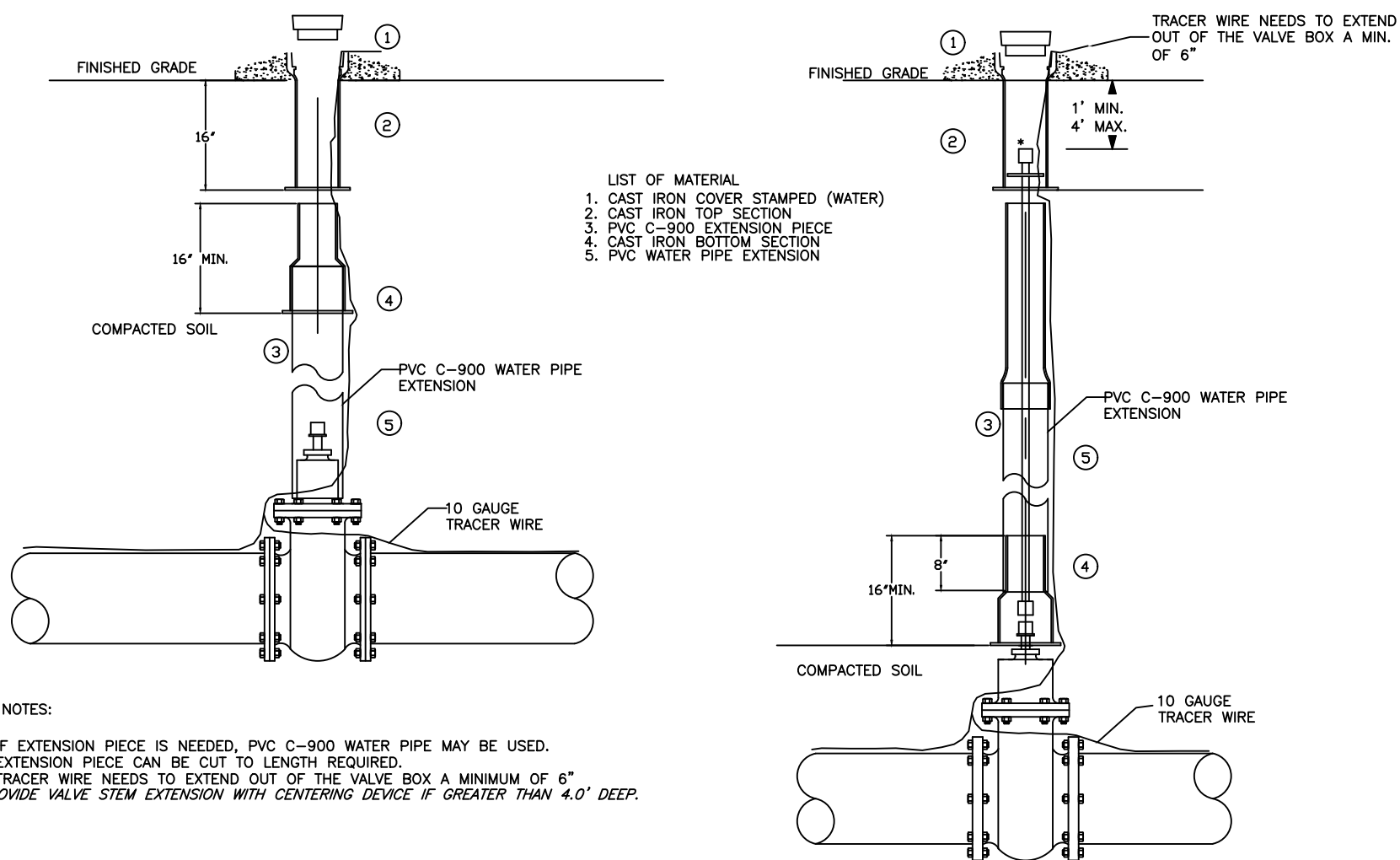
WATER DETAIL: W05

DEEP BURY FIRE HYDRANTS



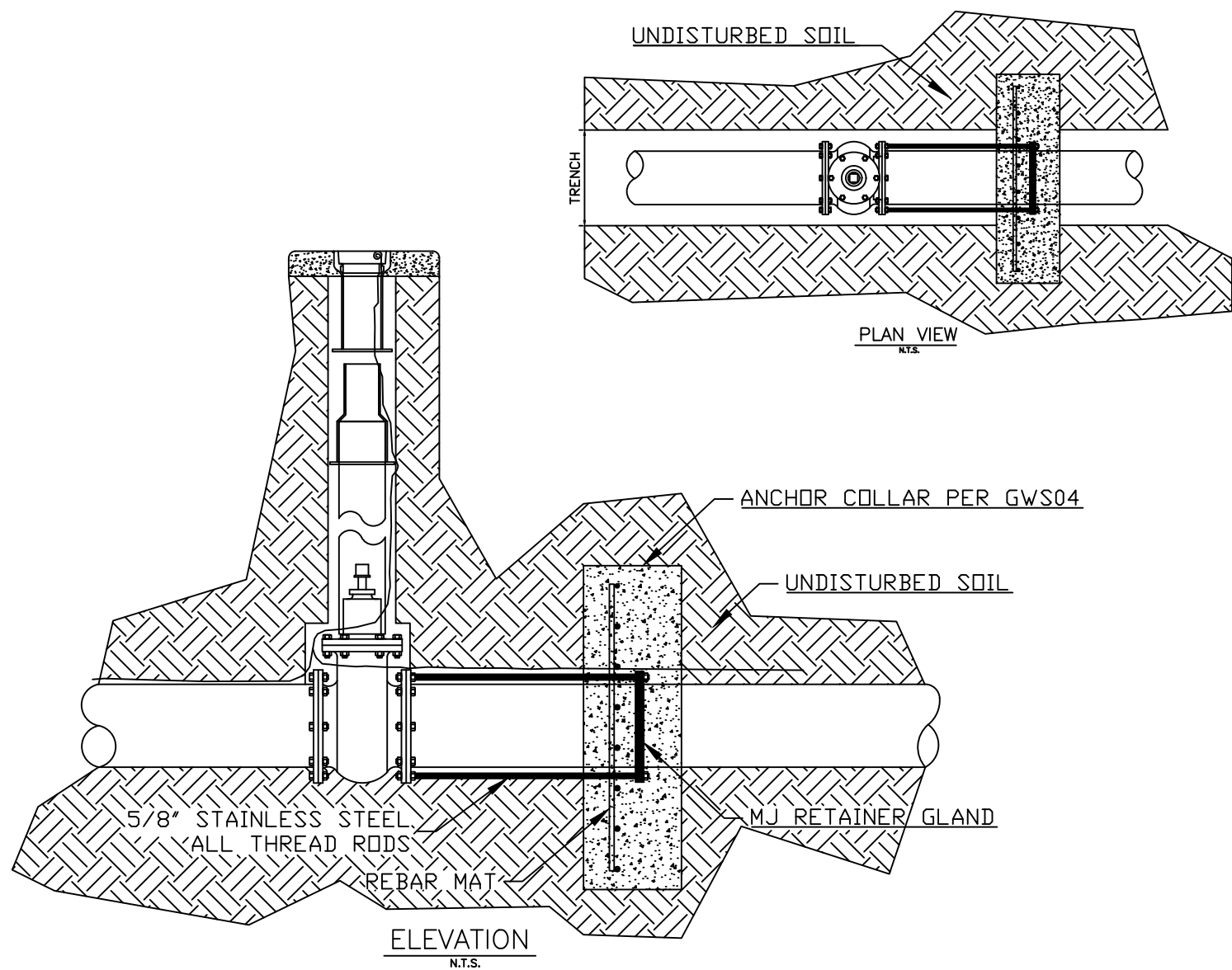
WATER DETAIL: W06

VALVE BOX VALVE STEM & TRACER  
WIRE INSTALLATION



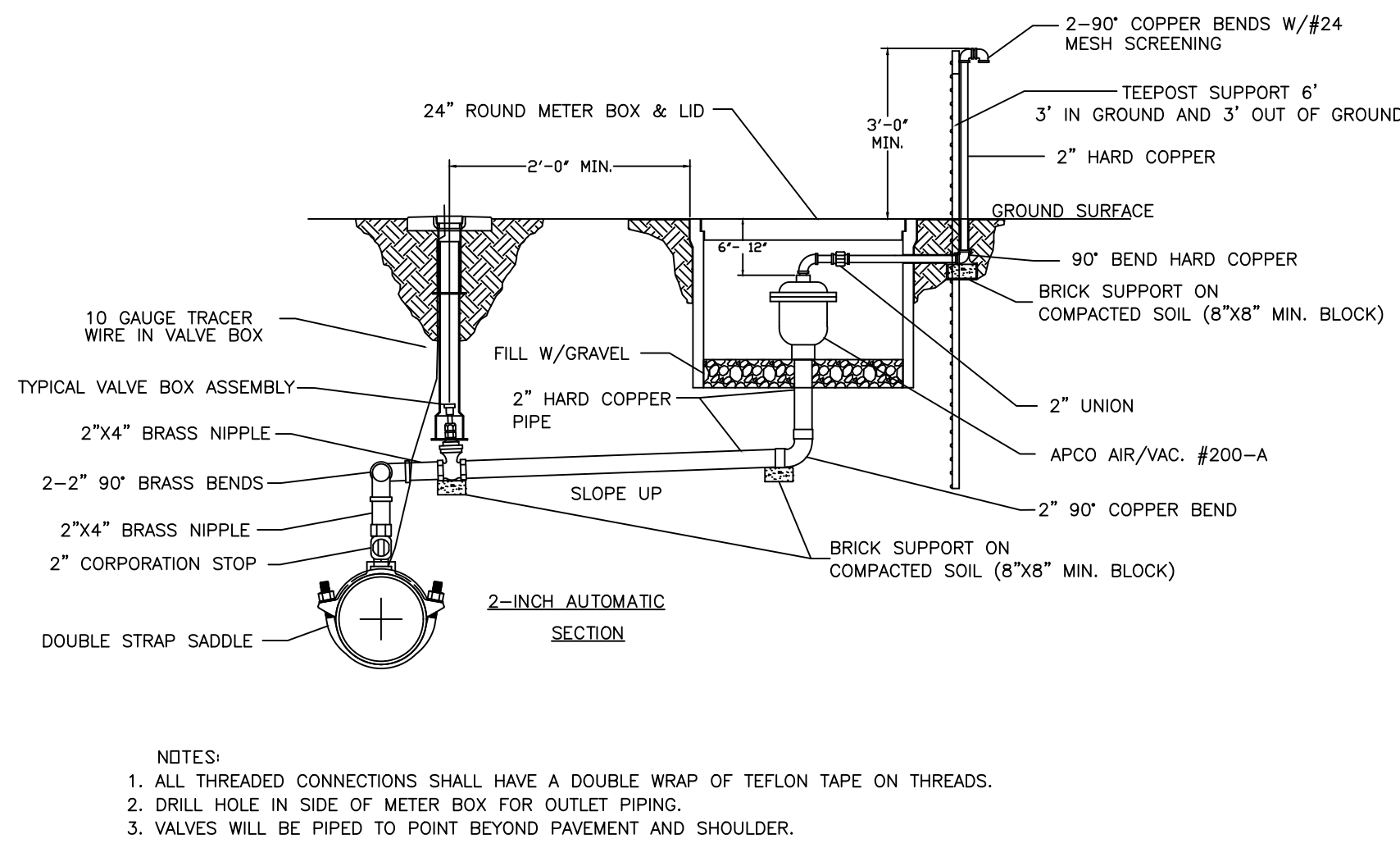
WATER DETAIL: W07

RESTRAINED GATE VALVE

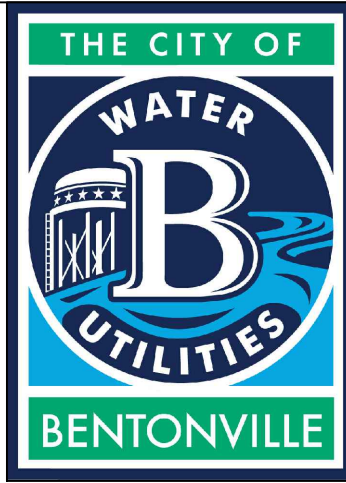


WATER DETAIL: W08

2" COMBINATION AIR/VACUUM VALVE DETAIL

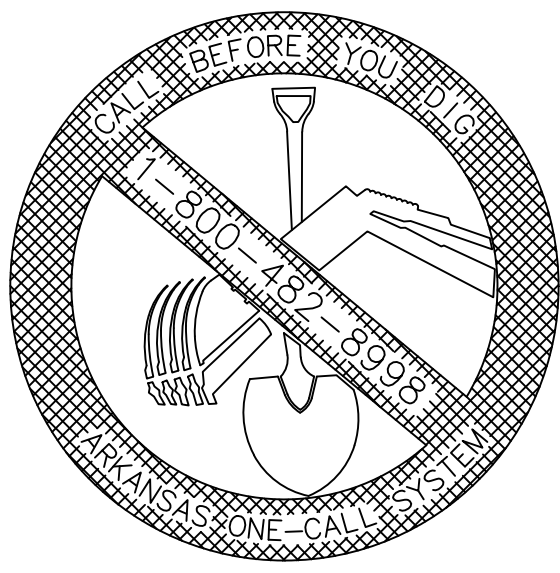


WATER DETAIL: W09



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WATER  
DETAILS



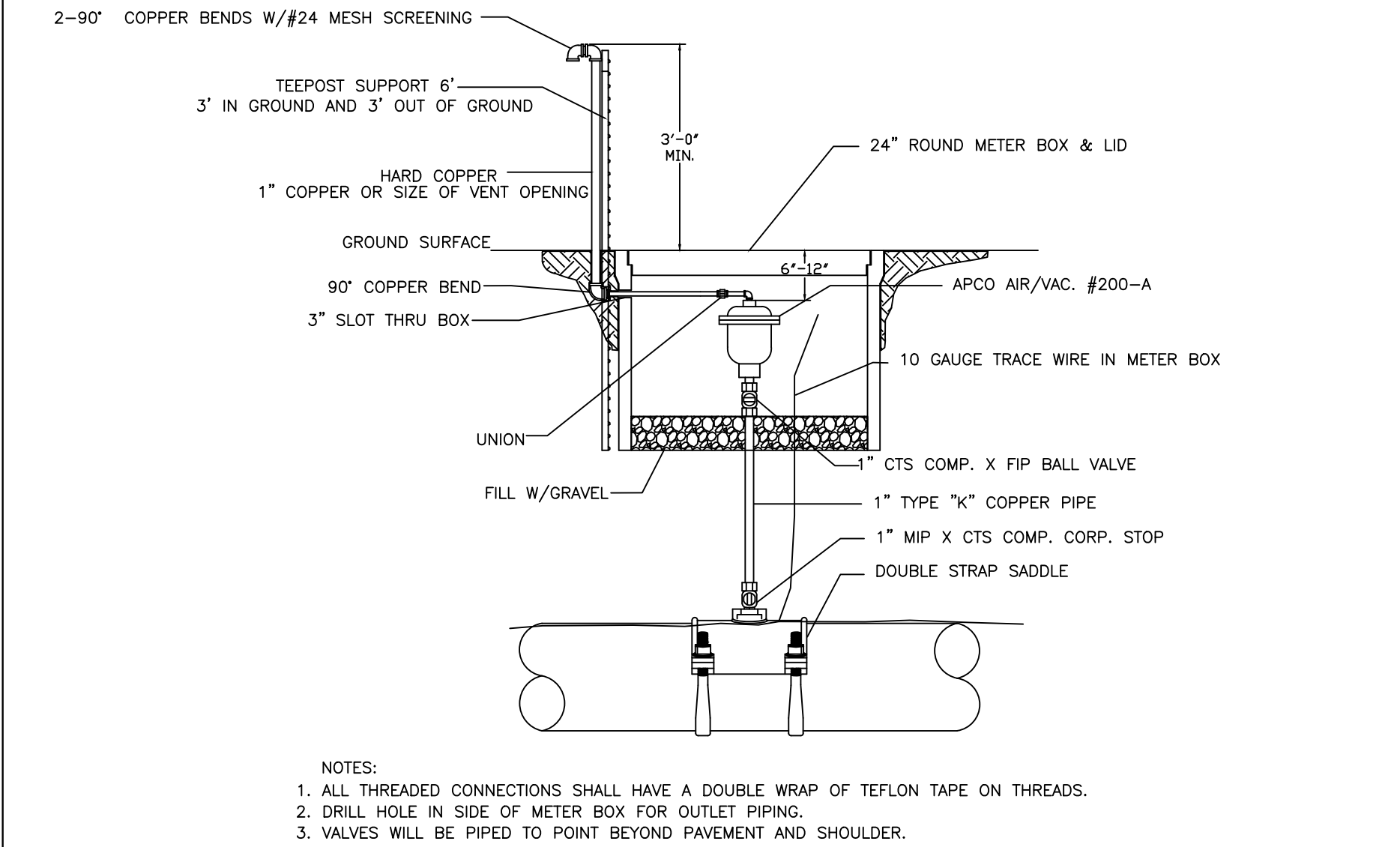
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NOTES:

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SHEET NUMBER:	1	OF	2

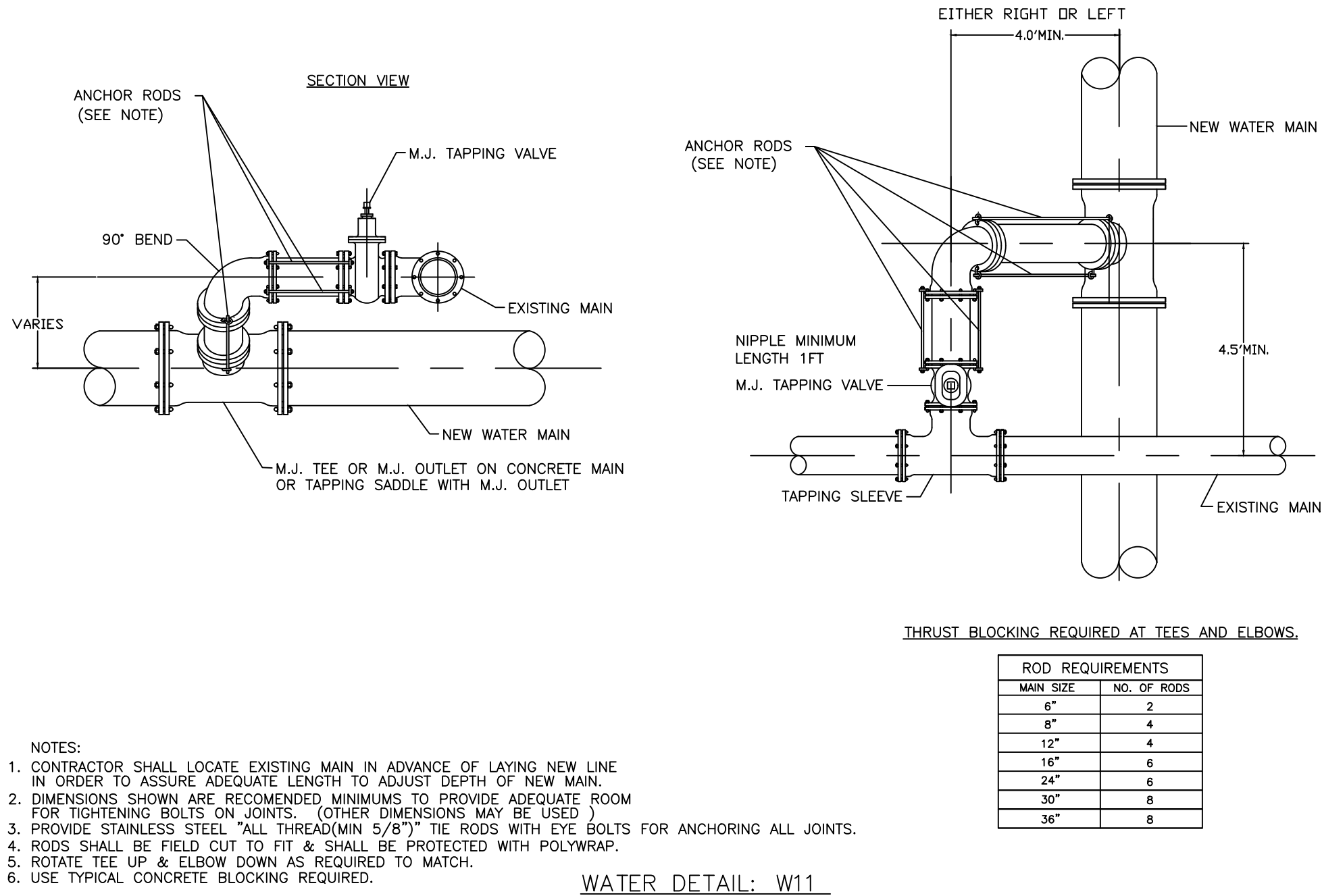


1" COMBINATION AIR/VACUUM VALVE DETAIL



WATER DETAIL: W10

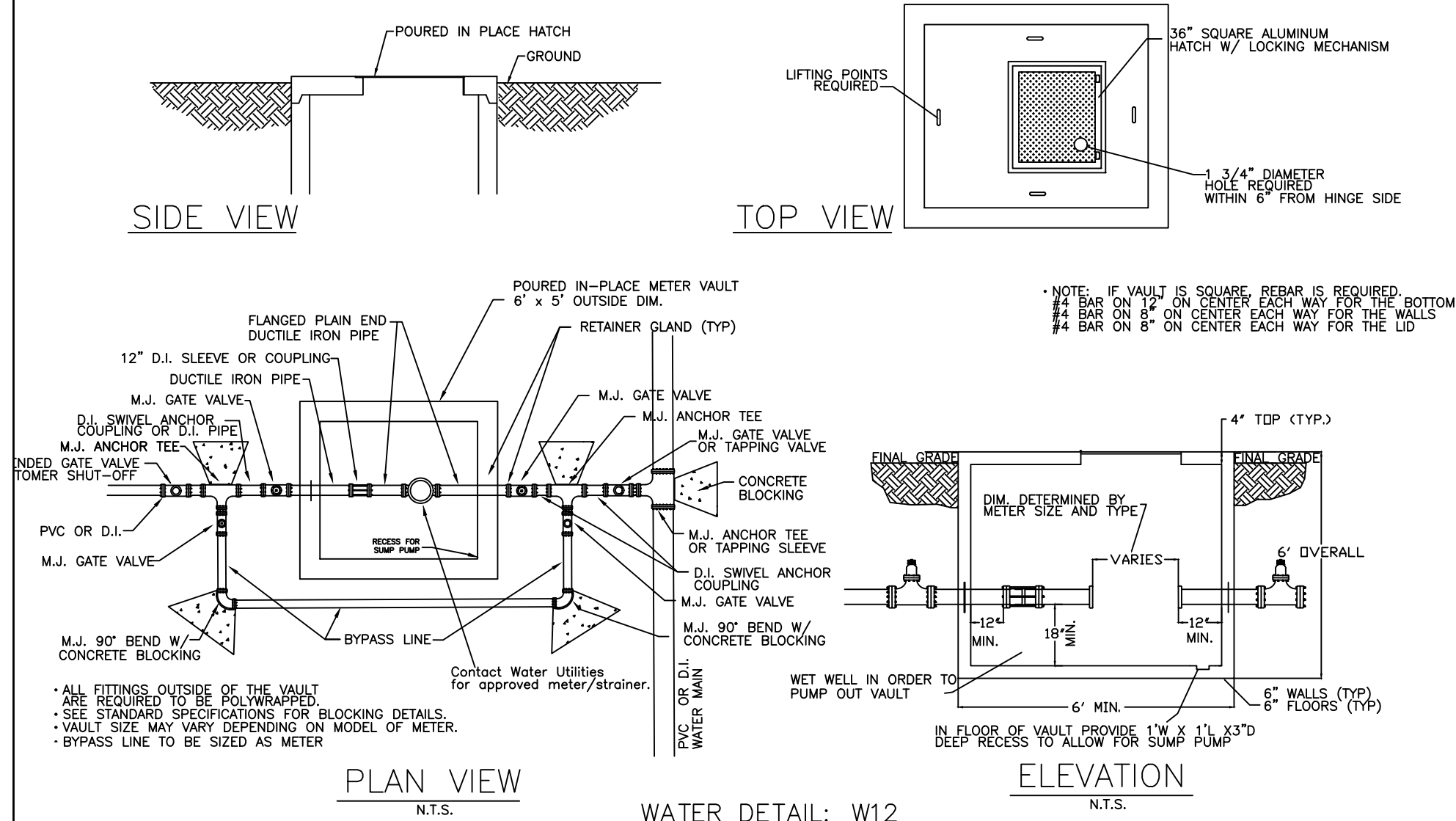
SWING CONNECTION – NEW MAIN TO EXISTING MAIN



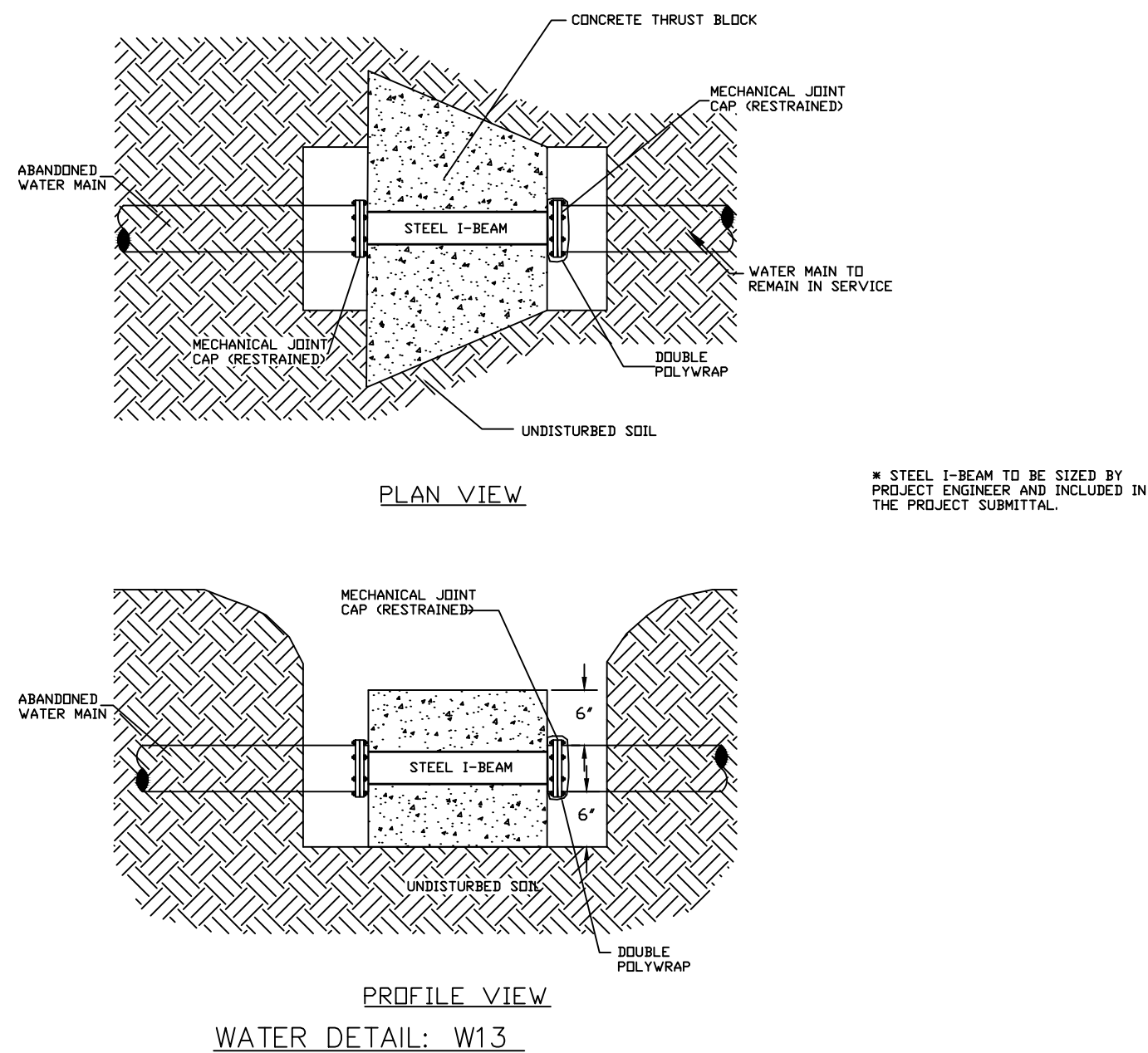
WATER DETAIL: W11

METER VAULT DETAIL FOR 4" – 8" METERS (TYPICAL)

(DIMENSIONS MAY VARY FOR METER SIZES)

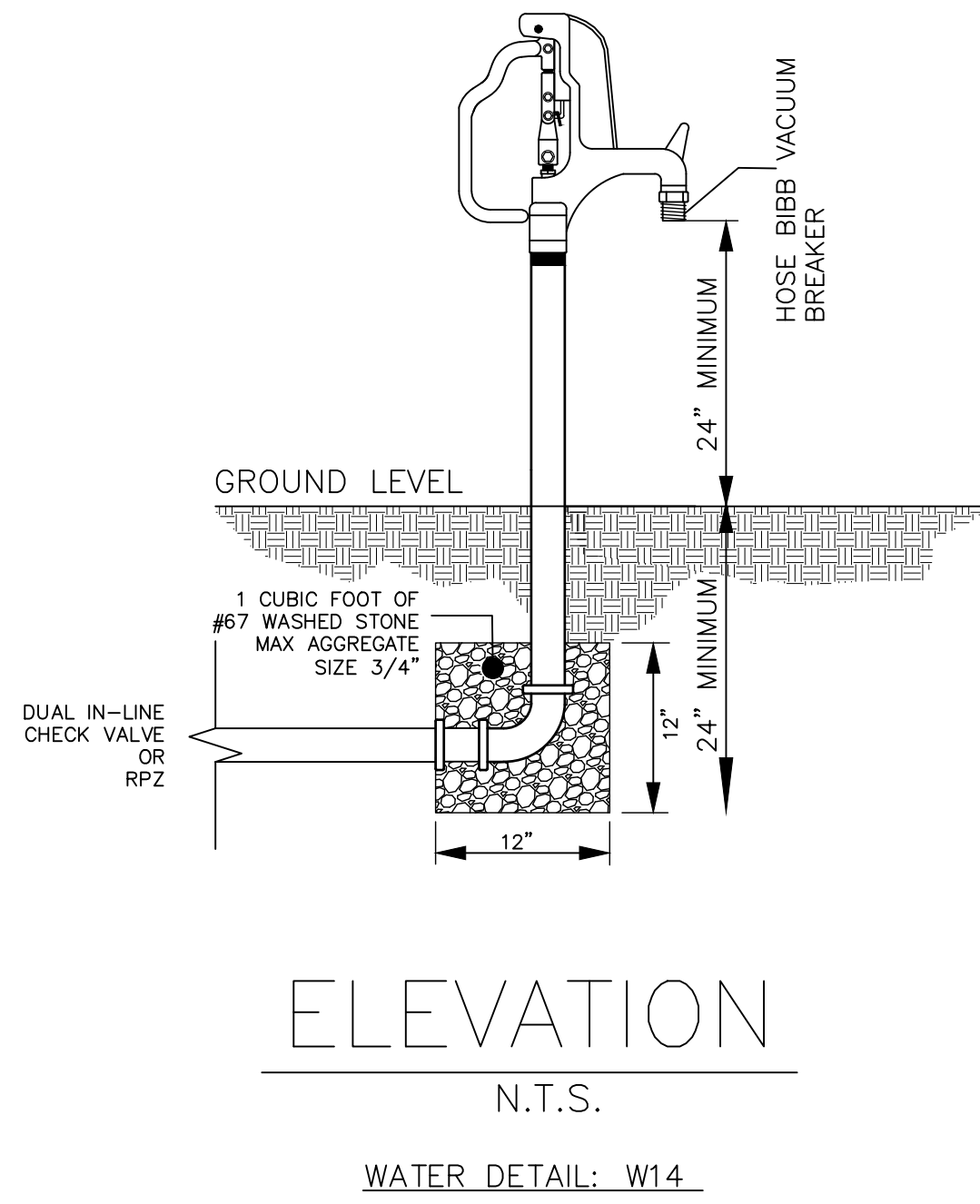


CUT/CAP DETAIL



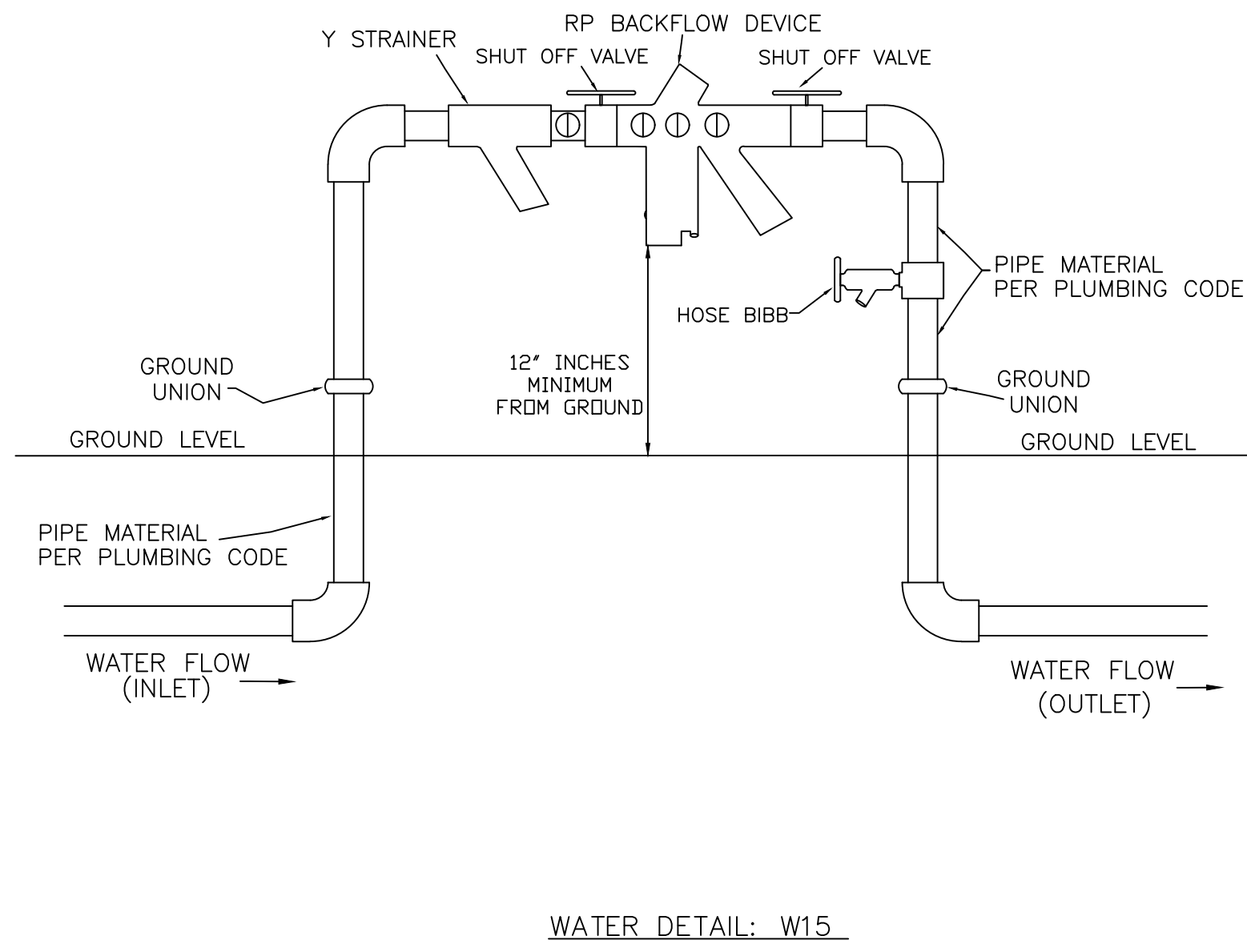
WATER DETAIL: W13

FROST FREE HOSE BIBB WITH BACKFLOW PREVENTION



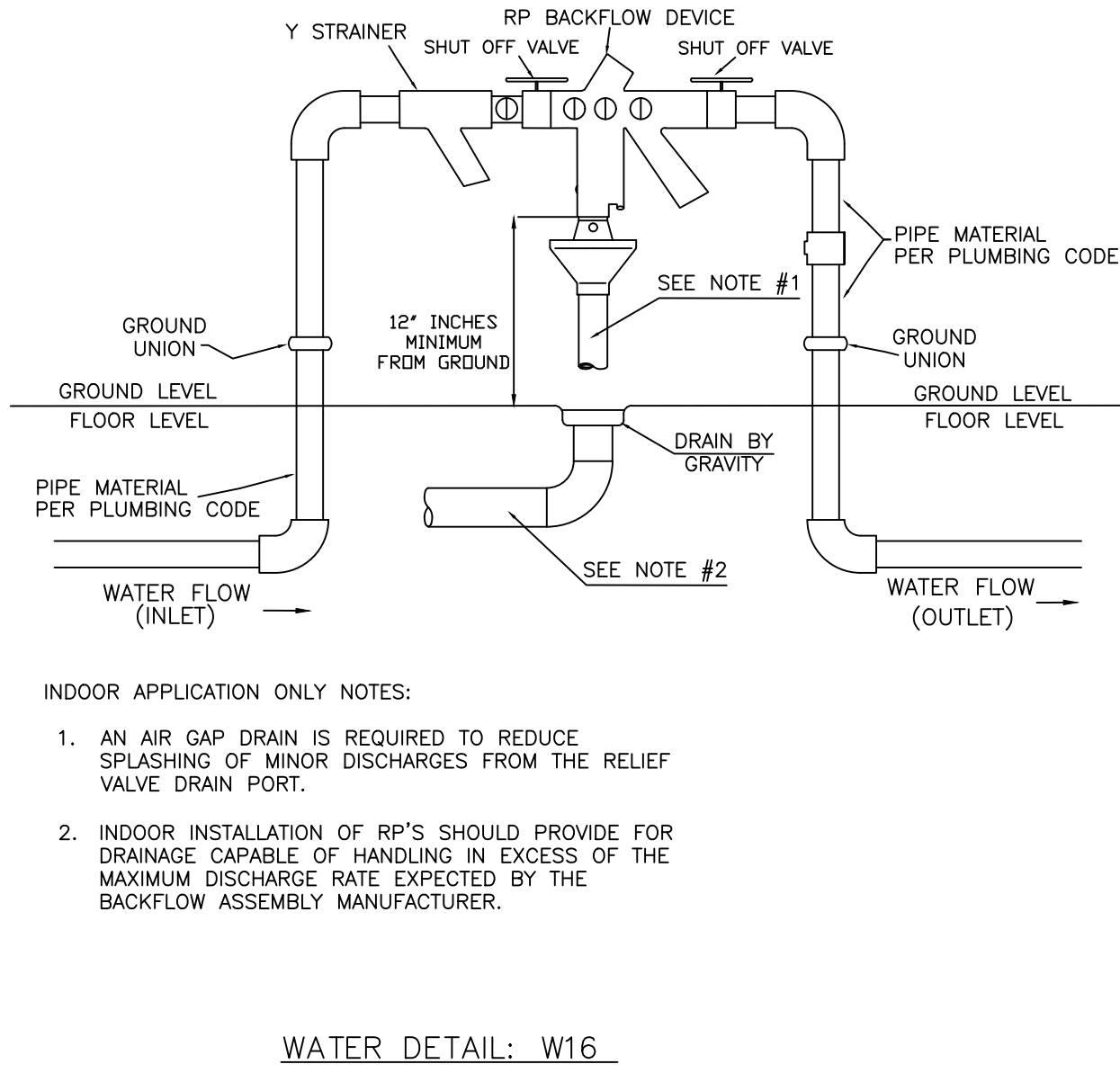
WATER DETAIL: W14

REDUCED PRESSURE (RP) BACKFLOW EXTERIOR IRRIGATION ONLY



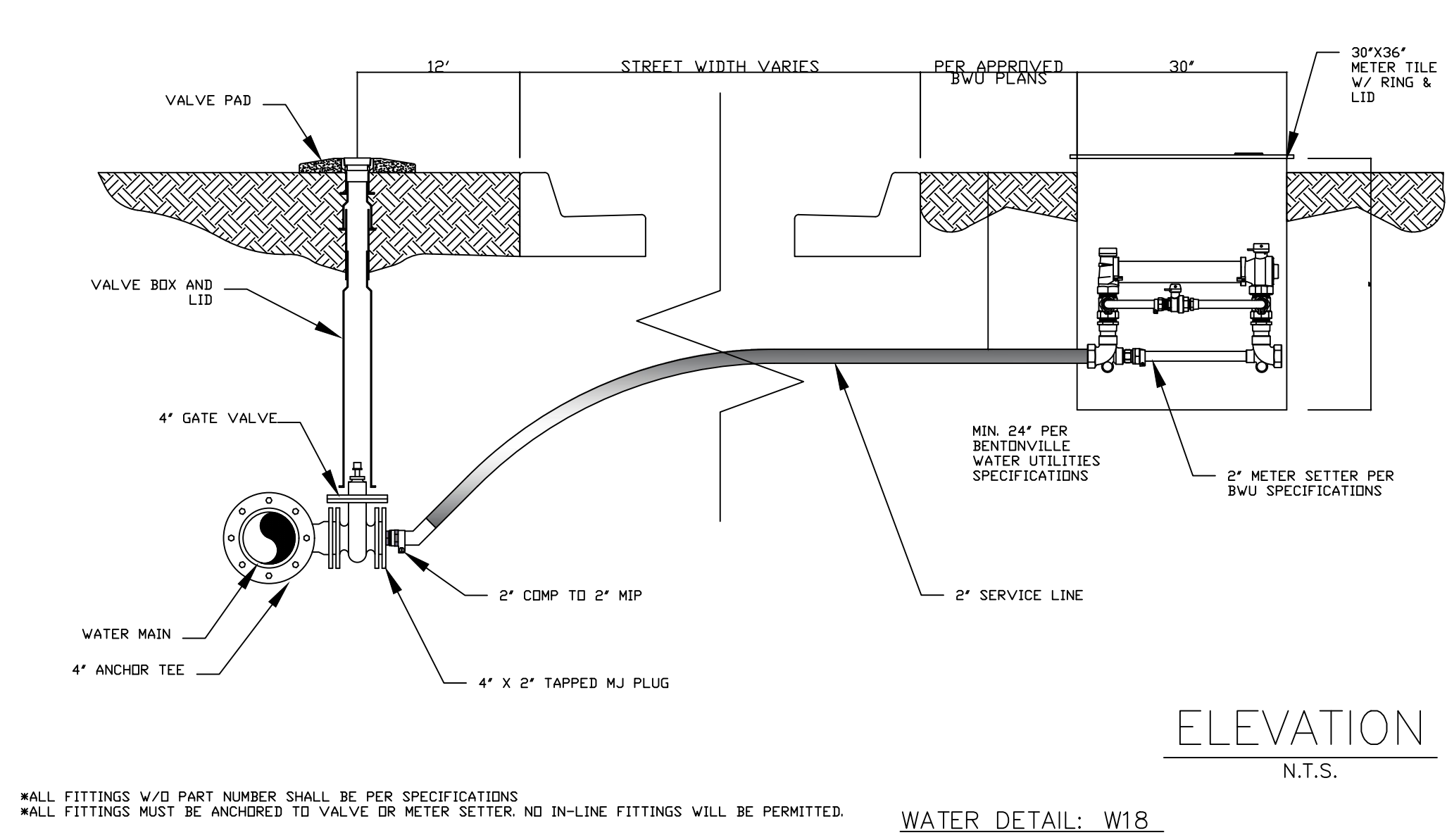
WATER DETAIL: W15

REDUCED PRESSURE (RP) BACKFLOW INTERIOR DOMESTIC OR IRRIGATION

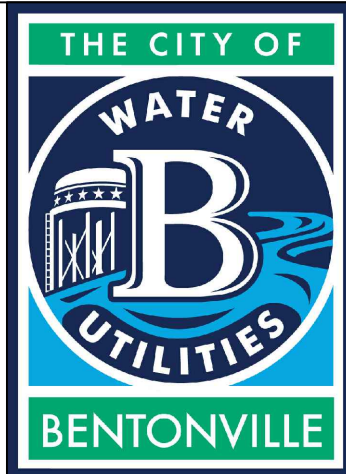


WATER DETAIL: W16

WATER SERVICE DETAIL 2"

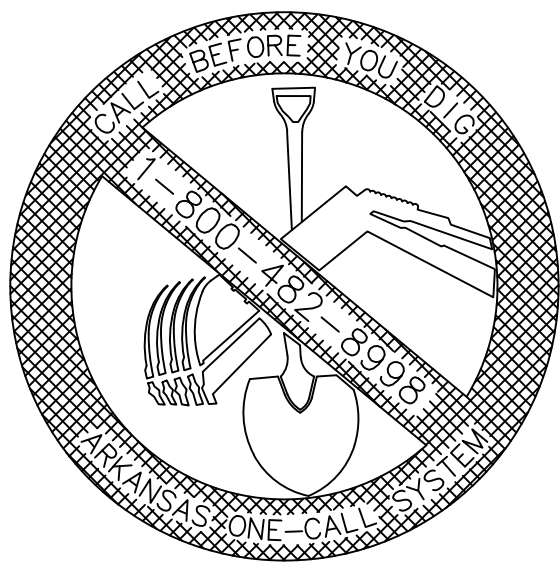


WATER DETAIL: W18



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WATER DETAILS



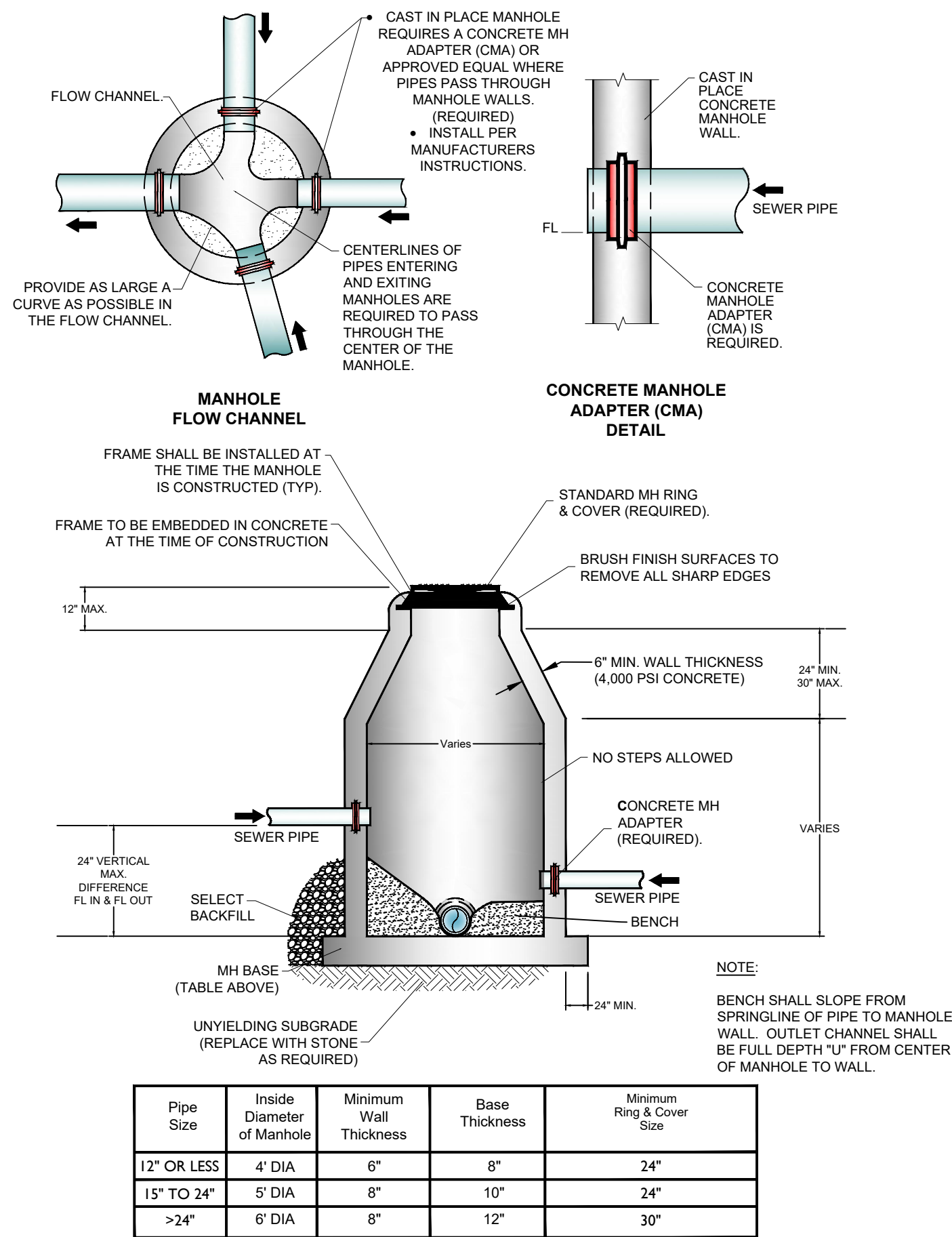
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2024

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SHEET NUMBER: 2	OF 2

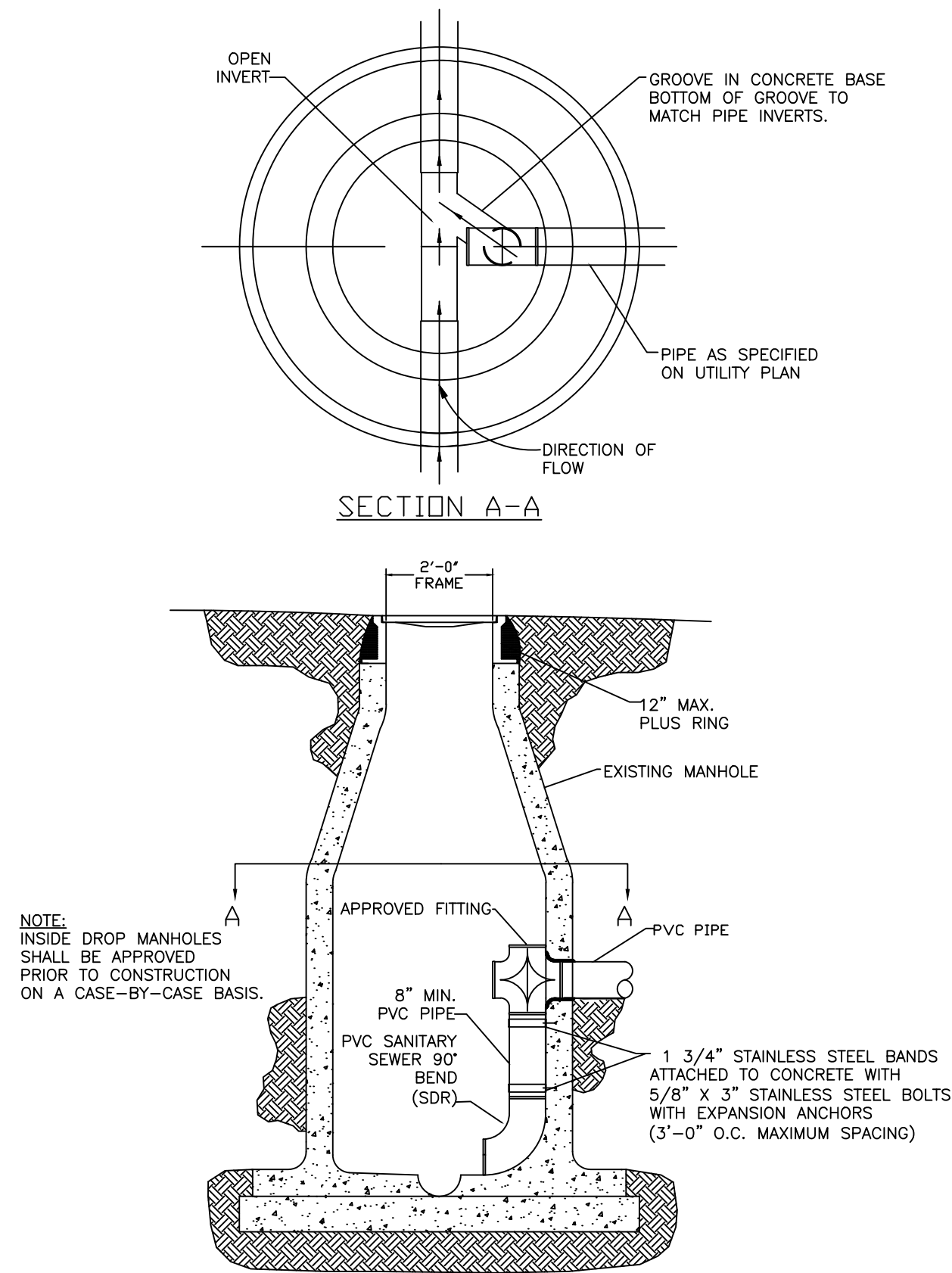


SANITARY SEWER  
CAST IN PLACE MANHOLE



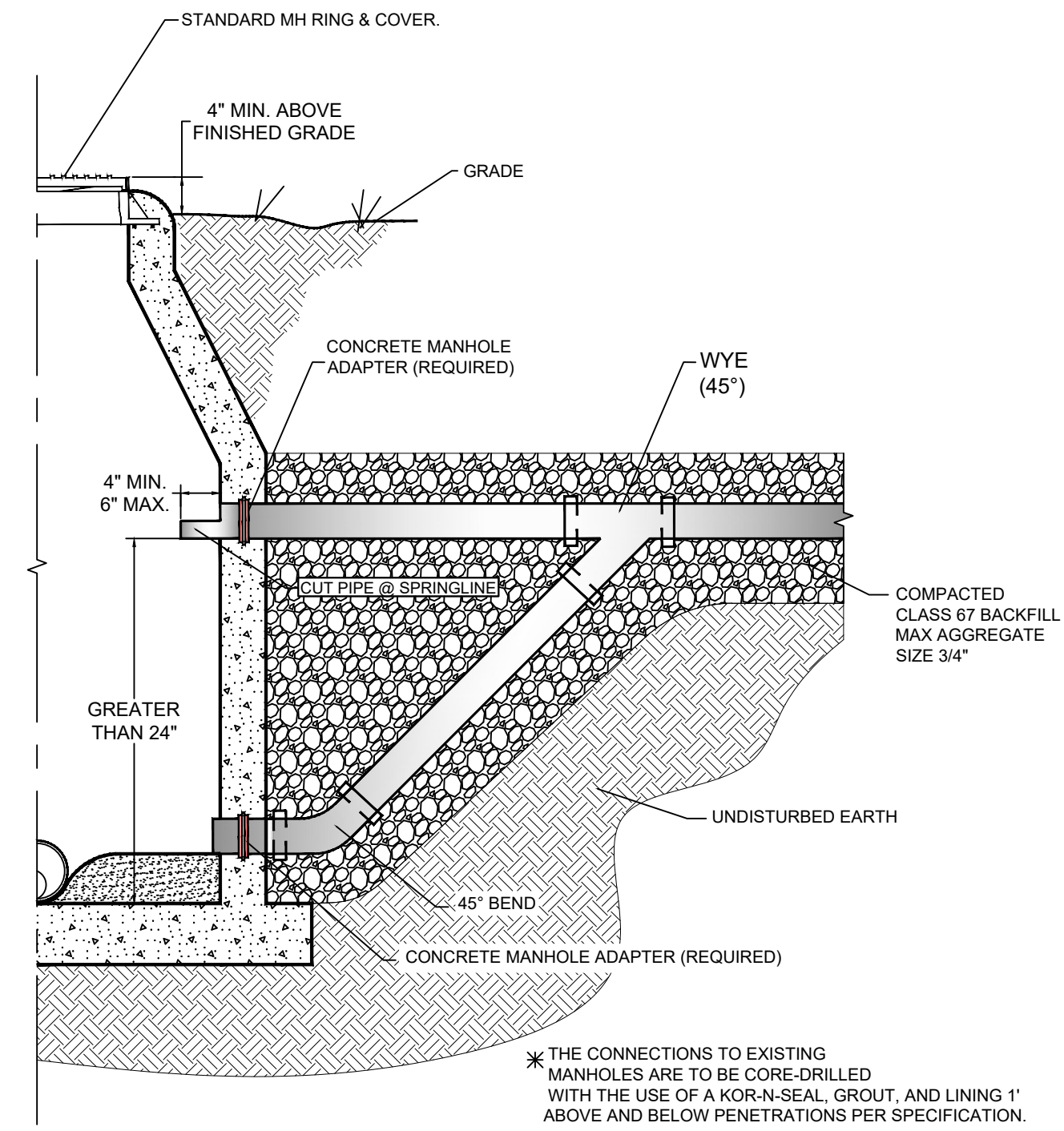
SANITARY SEWER DETAIL: SS01

SANITARY SEWER  
INTERIOR DROP MANHOLE



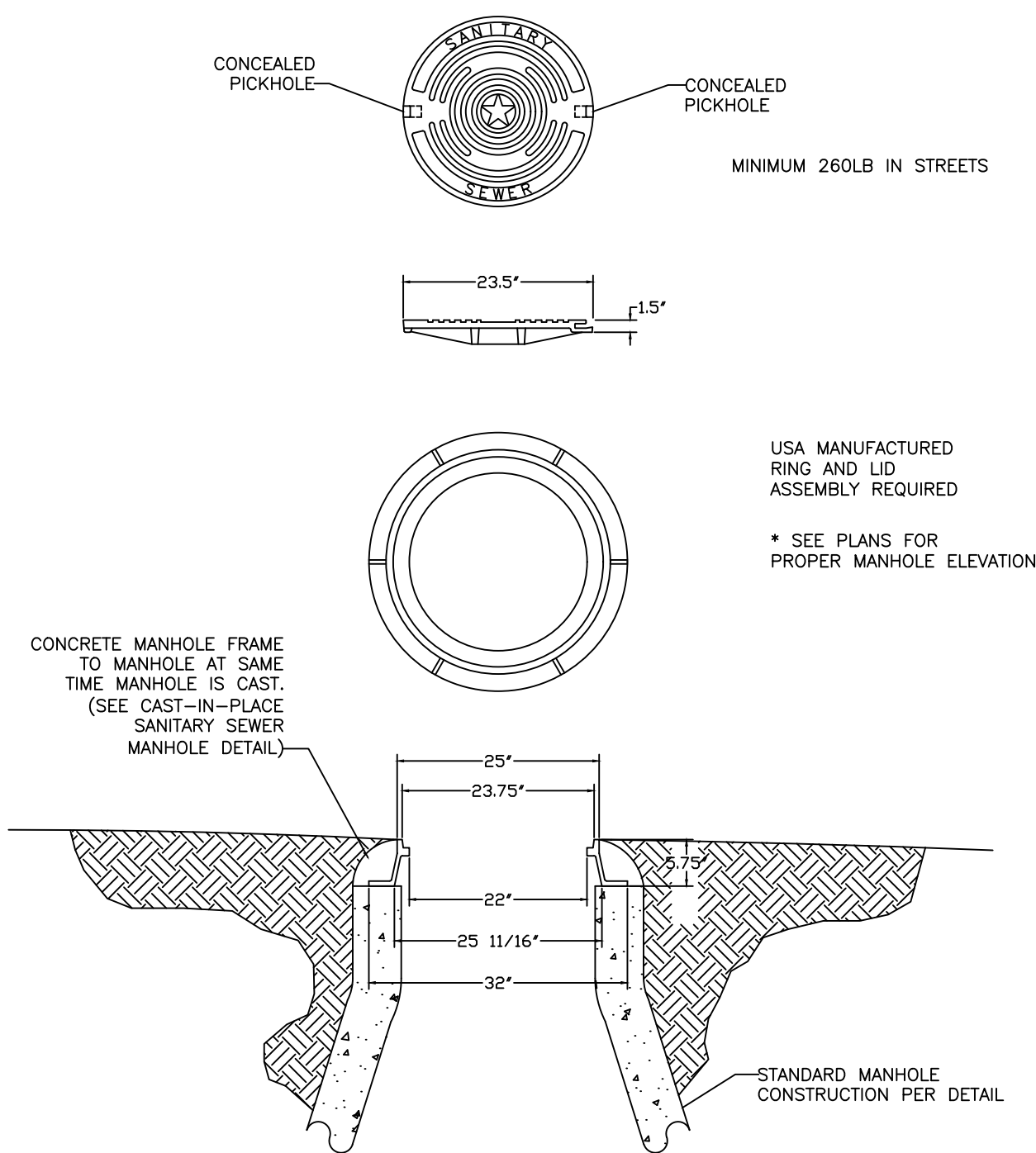
SANITARY SEWER DETAIL: SS02

SANITARY SEWER  
EXTERIOR DROP MANHOLE



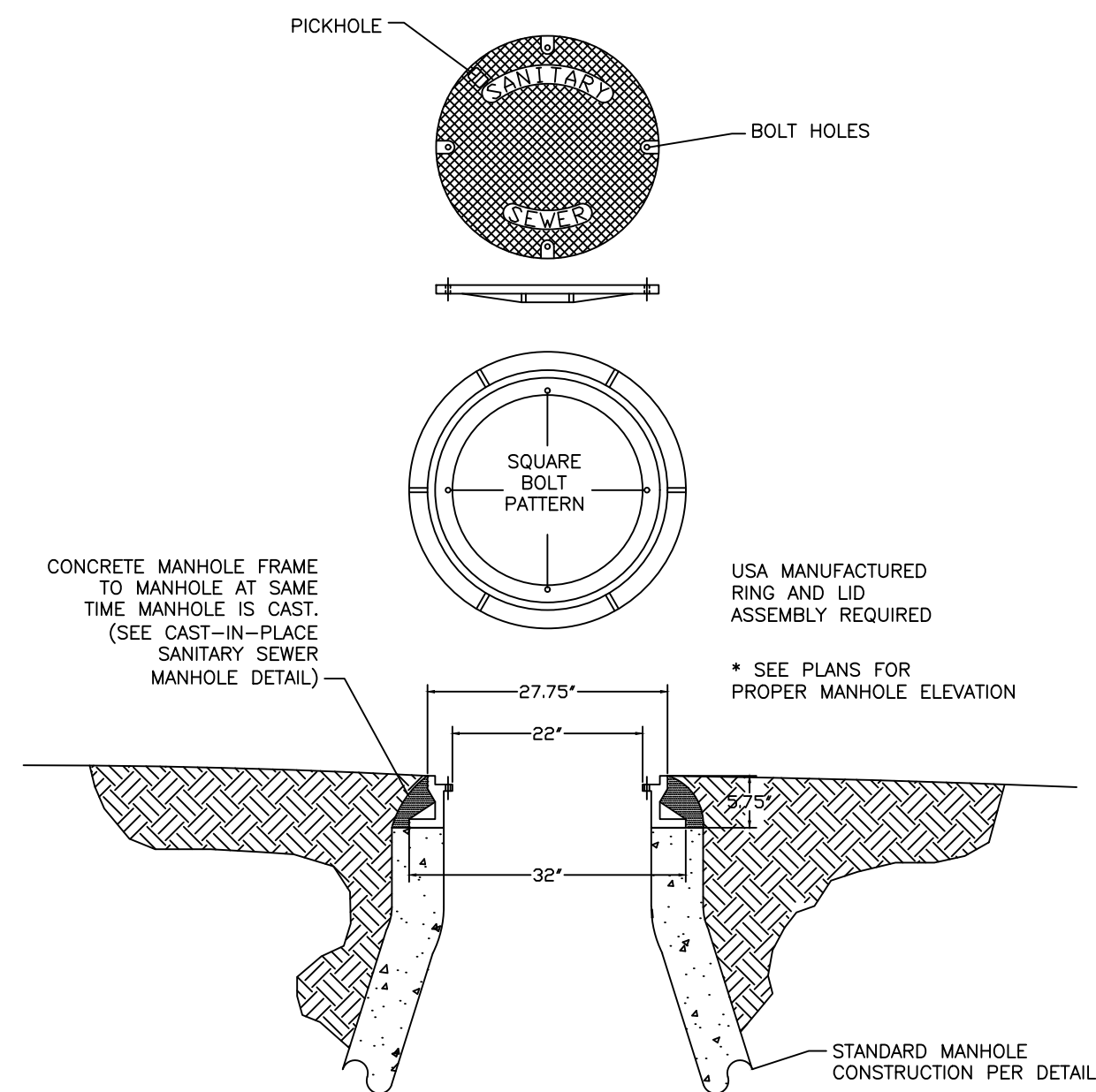
SANITARY SEWER DETAIL: SS03

HEAVY DUTY MANHOLE  
LID & FRAME



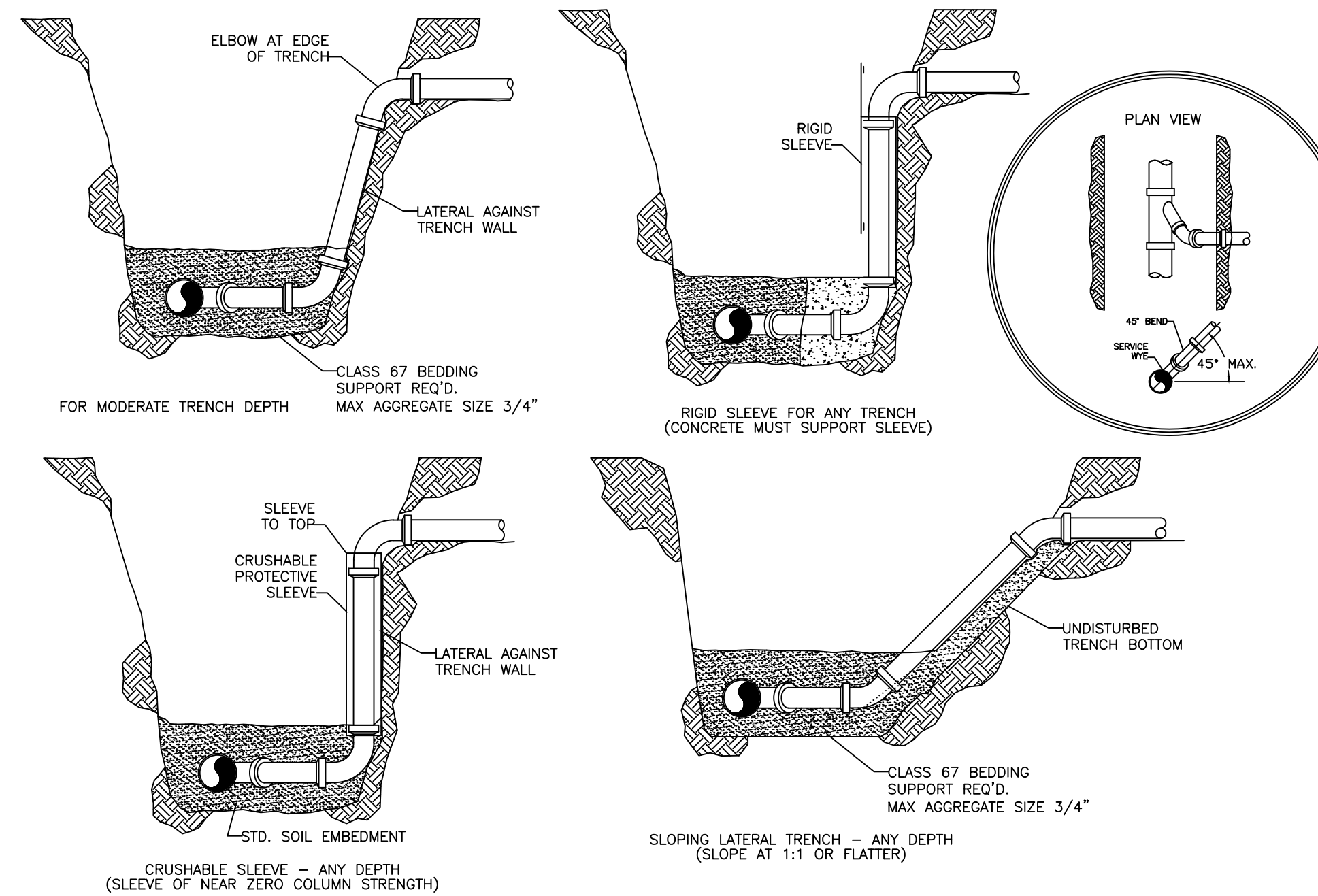
SANITARY SEWER DETAIL: SS04

WATER TIGHT BOLTED MANHOLE  
LID & FRAME



SANITARY SEWER DETAIL: SS05

SANITARY SEWER  
SERVICE WYE

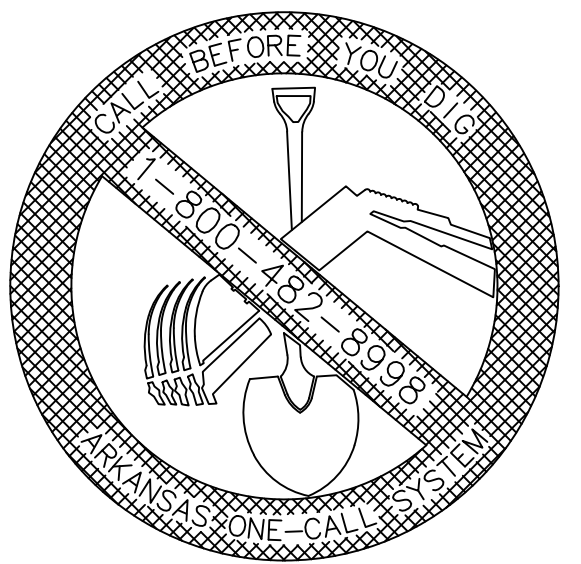


SANITARY SEWER DETAIL: SS06



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SAN. SEWER  
DETAILS



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SHEET NUMBER: 1	OF 2



REMOVE MH RING & COVER, CONE AND/OR BARREL TO A MIN. OF 2'-0" BELOW EXISTING GRADE ELEVATION.

GRADE

2'-0"

CLASS 67 GRAVEL ONLY  
MAX AGGREGATE SIZE 3/4"  
(NO SAND)

ABANDONED SS

PLUG LINES

CONSTRUCT CONCRETE PLUG FROM INSIDE OF THE EXISTING MANHOLE. FILL BOTTOM OF MANHOLE WITH 4,000 PSI CONCRETE TO 6" ABOVE THE CROWN OF ALL PIPES. NO EXCAVATION IS REQUIRED.

ABANDONED SS

GRADE

BACKFILL, REPAVE or RESURFACE

BACKFILL ABANDONMENT IN PAVED AREAS, AND PERFORM PAVEMENT REPAIR AS PER STANDARD STREET DEPARTMENT SPECIFICATIONS. BACKFILL ABANDONMENT IN NONPAVED AREAS WITH SELECT NATIVE MATERIAL, AND RESURFACE WITH APPROPRIATE MATERIALS.

GRADE

CLASS 67 GRAVEL ONLY, MAX AGGREGATE SIZE 3/4"  
(NO SAND)

ABANDONED SS

ABANDONED SS

1 1/4" LETTERING  
(RECESSED FLUSH)

1.5"

(2) CLOSED  
PICKHOLES

PRIVATE  
SANITARY SEWER  
MADE IN U.S.A.

1500 PSI  
NO. 100-100

BOTTOM VIEW

23.5"

1.5"

COVER SECTION

1 3/8"

2 1/4"

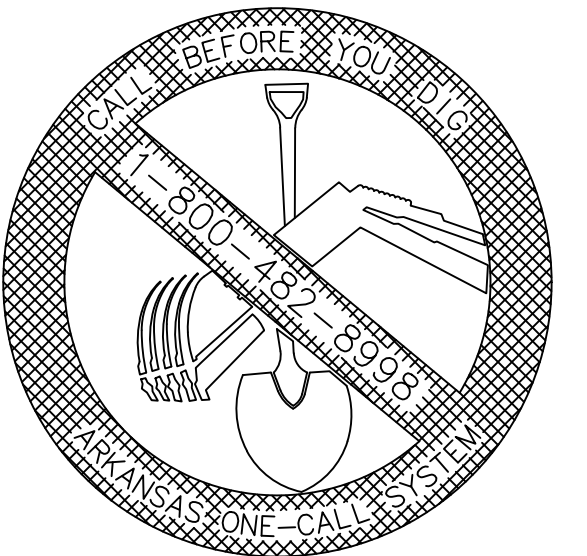
7/16"

1"

PICKHOLE DETAIL

The logo for the City of Bentonville Water Utilities. It features a circular emblem with a blue background. Inside the circle, there is a white stylized letter 'B'. To the left of the 'B' is a white illustration of a water treatment facility with a cylindrical tank and a rectangular structure. Above the 'B' is the word 'WATER' in white, and below it is the word 'UTILITIES' in white. The entire circular emblem is set against a green background that contains the text 'THE CITY OF' at the top and 'BENTONVILLE' at the bottom, both in white capital letters.

# SAN. SEWER DETAILS

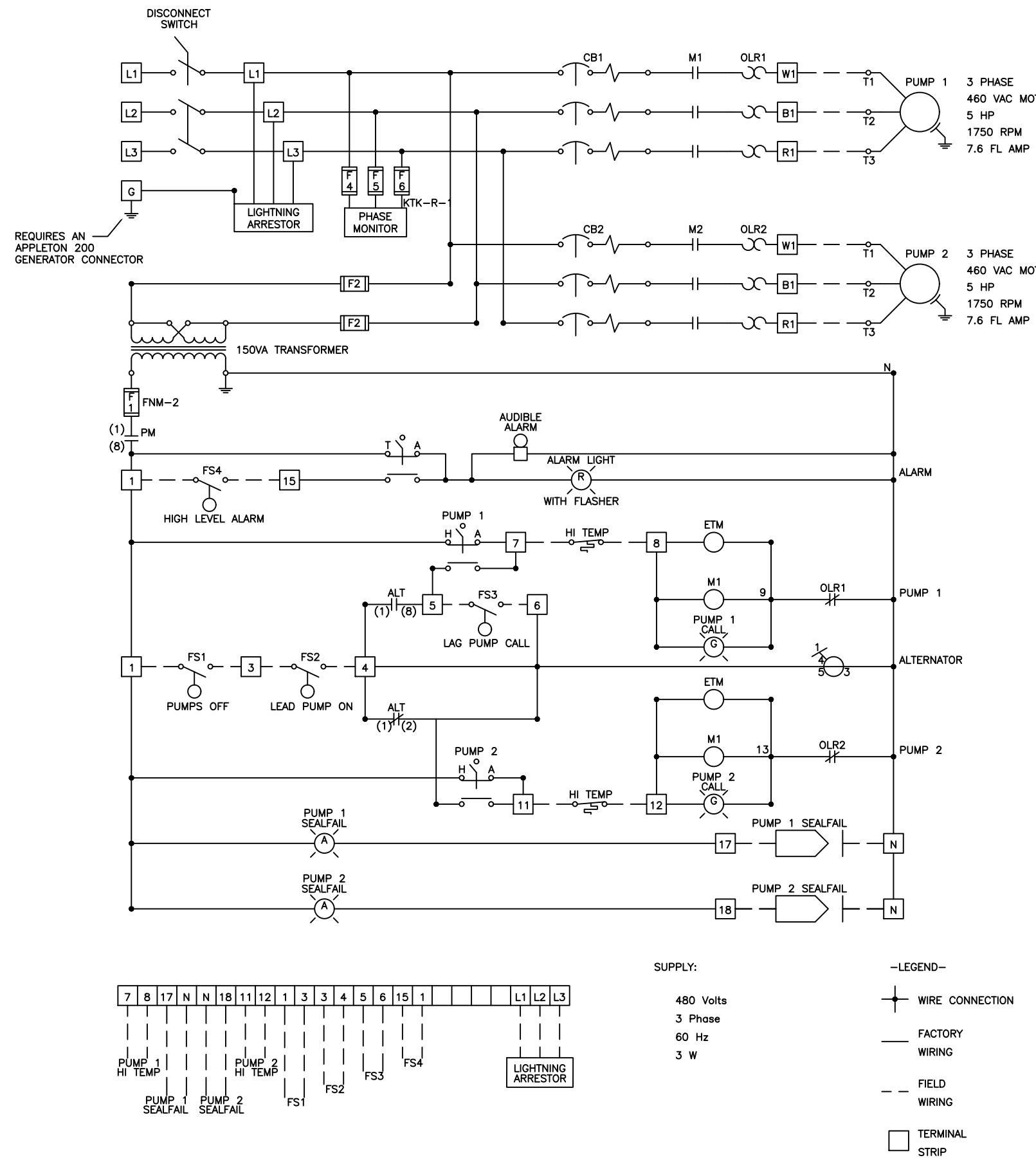


SHEET NUMBER: 2	OF 2
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# DUPLEX PUMP CONTROL PANEL

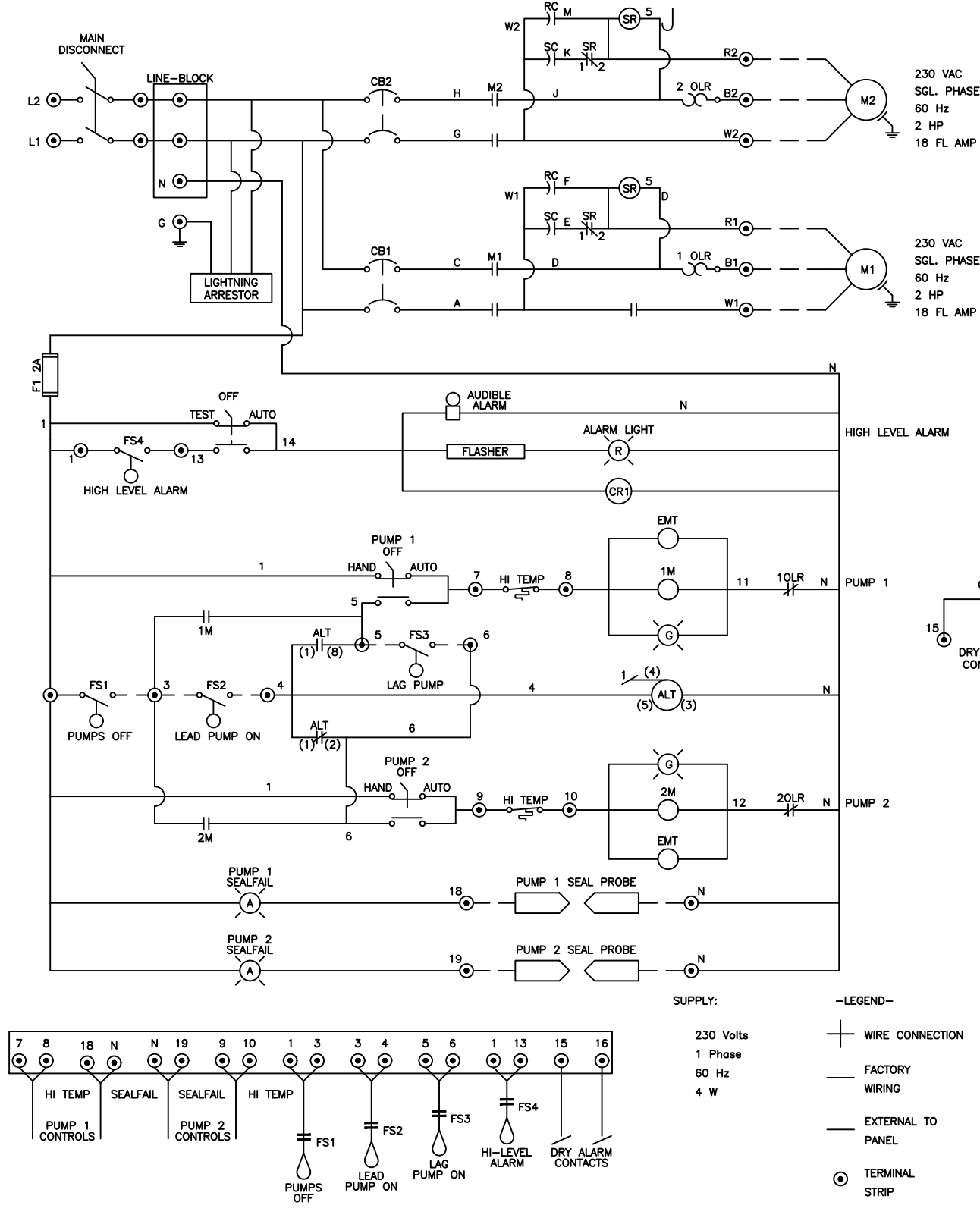
480 V / 3 PHASE



LIFT STATION DETAILS: LS01

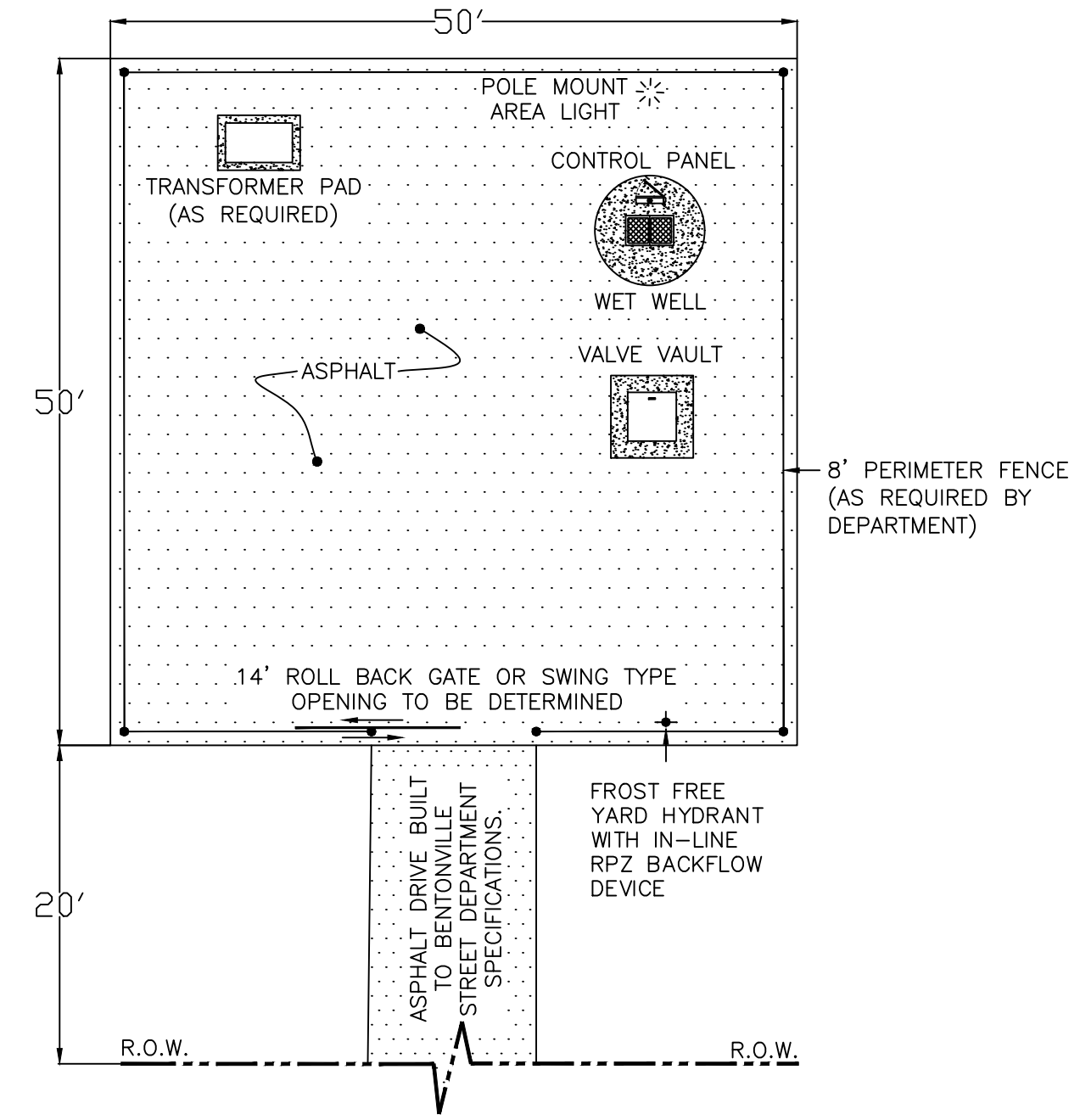
# DUPLEX PUMP CONTROL PANEL

230 V / SINGLE PHASE



LIFT STATION DETAILS: LS02

## LIFT STATION SITE DETAIL



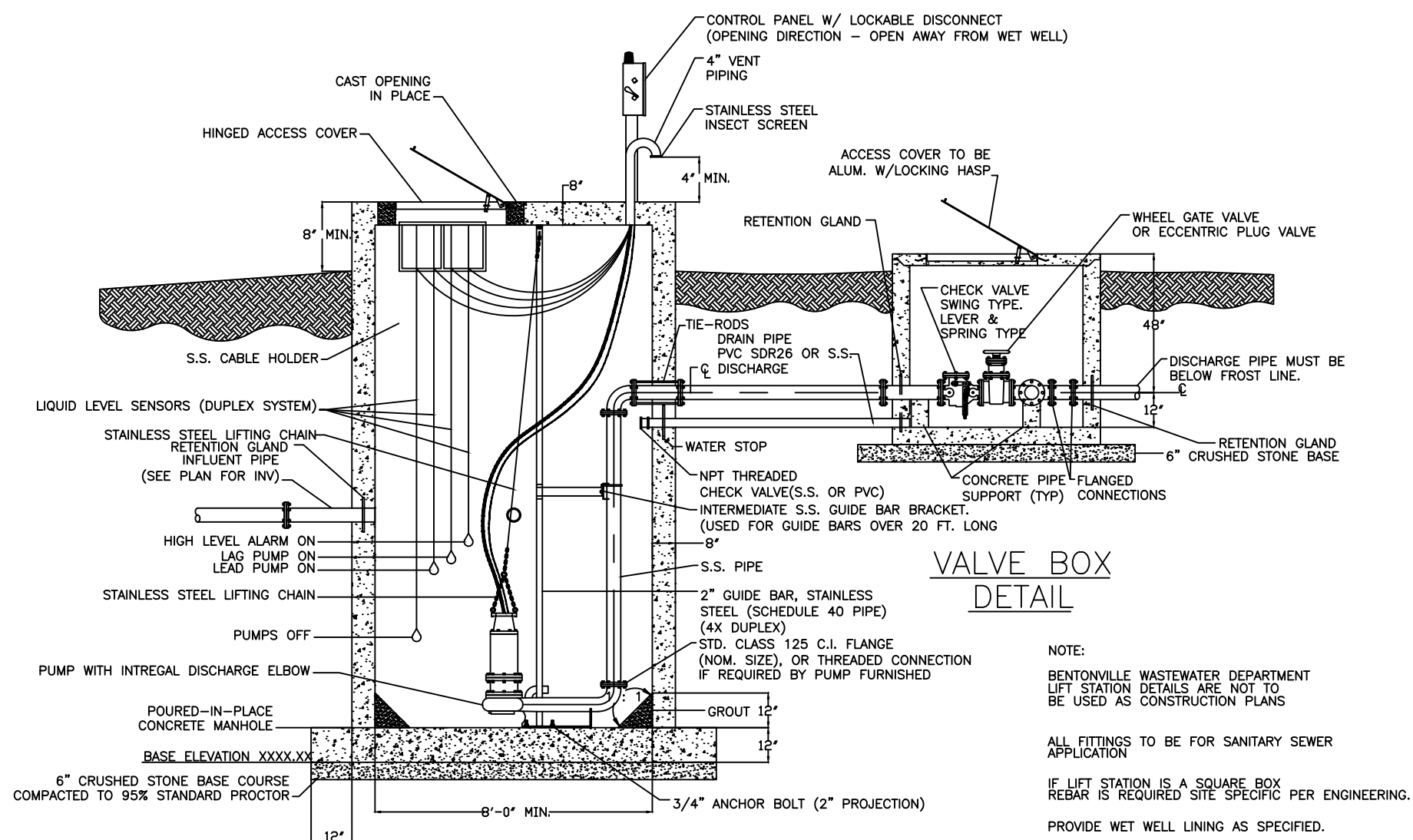
\*ACTUAL SITE LAYOUT MAY VARY

BENTONVILLE WASTEWATER DEPARTMENT  
LIFT STATION DETAILS ARE NOT TO  
BE USED AS CONSTRUCTION PLANS

LIFT STATION DETAILS: ISO

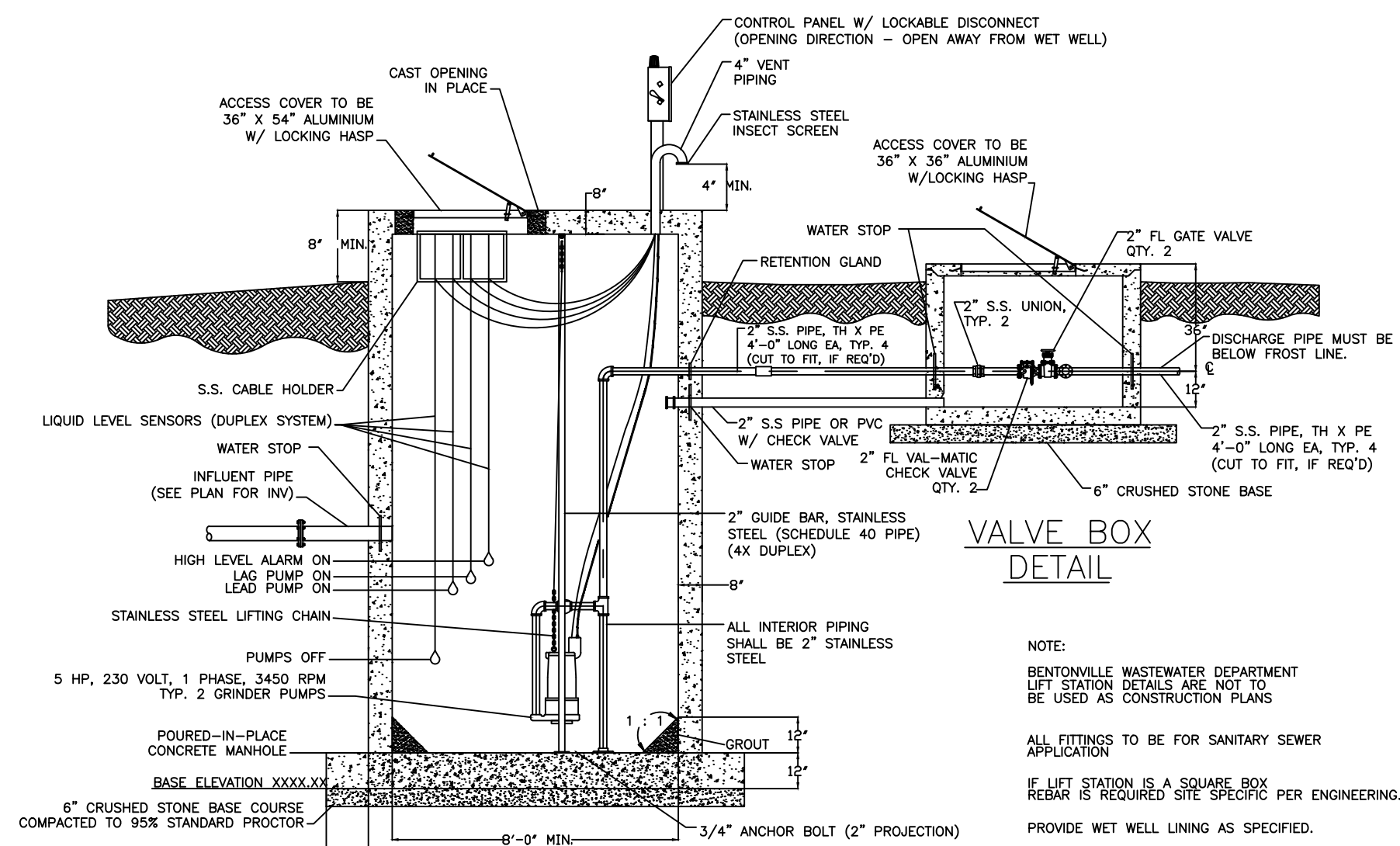
## LIFT STATION DETAIL

NON-CLOG PUMPS 5 HP AND UP



LIFT STATION DETAILS: LS04

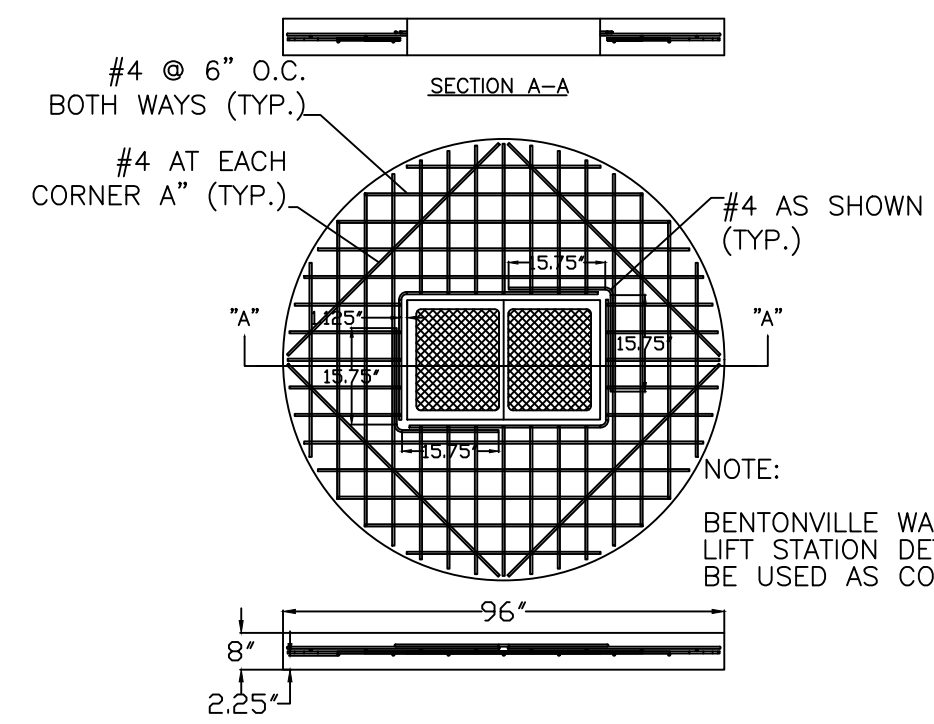
## LIFT STATION DETAIL

GRINDER PUMPS 5 HP AND LESS

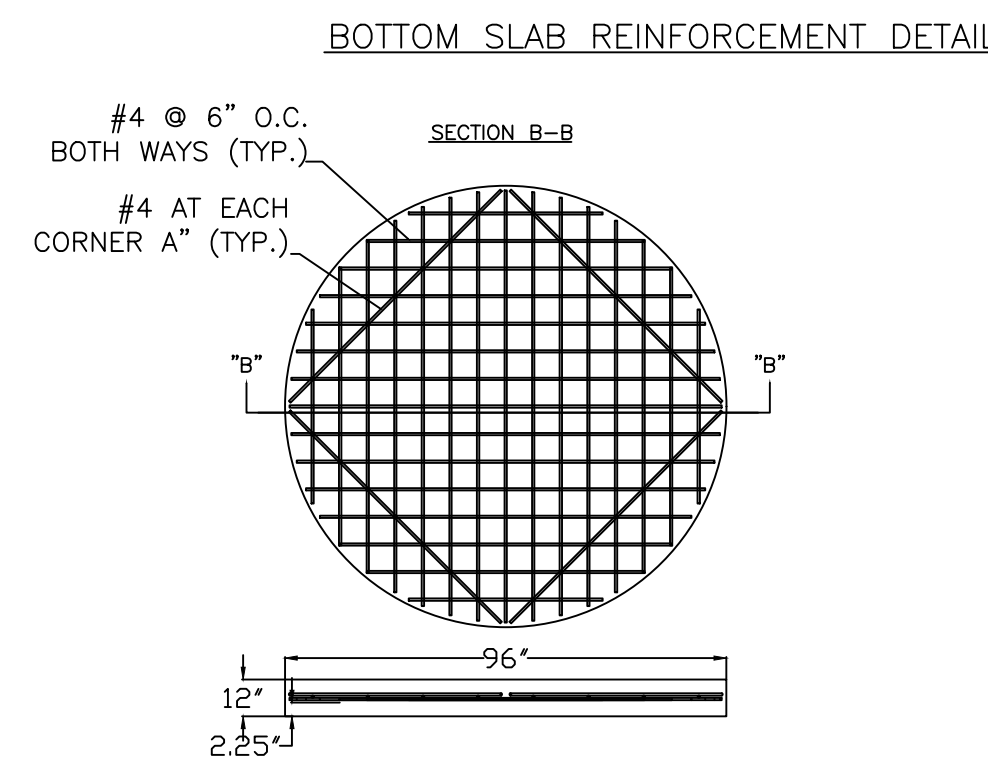
LIFT STATION DETAILS: LSO

## WET WELL AND VALVE VAULT

TOP SLAB REINFORCEMENT DETAIL



NOTE:  
BENTONVILLE WASTEWATER DEPARTMENT  
LIFT STATION DETAILS ARE NOT TO  
BE USED AS CONSTRUCTION PLANS

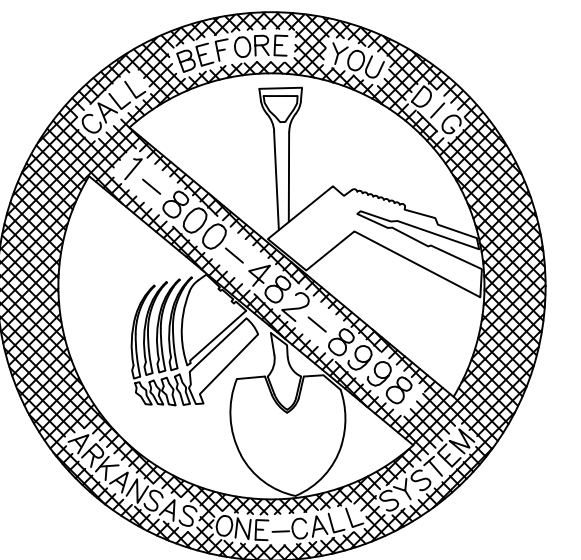


LIFT STATION DETAILS: LSO



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# LIFT STATION DETAILS



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NOTES:

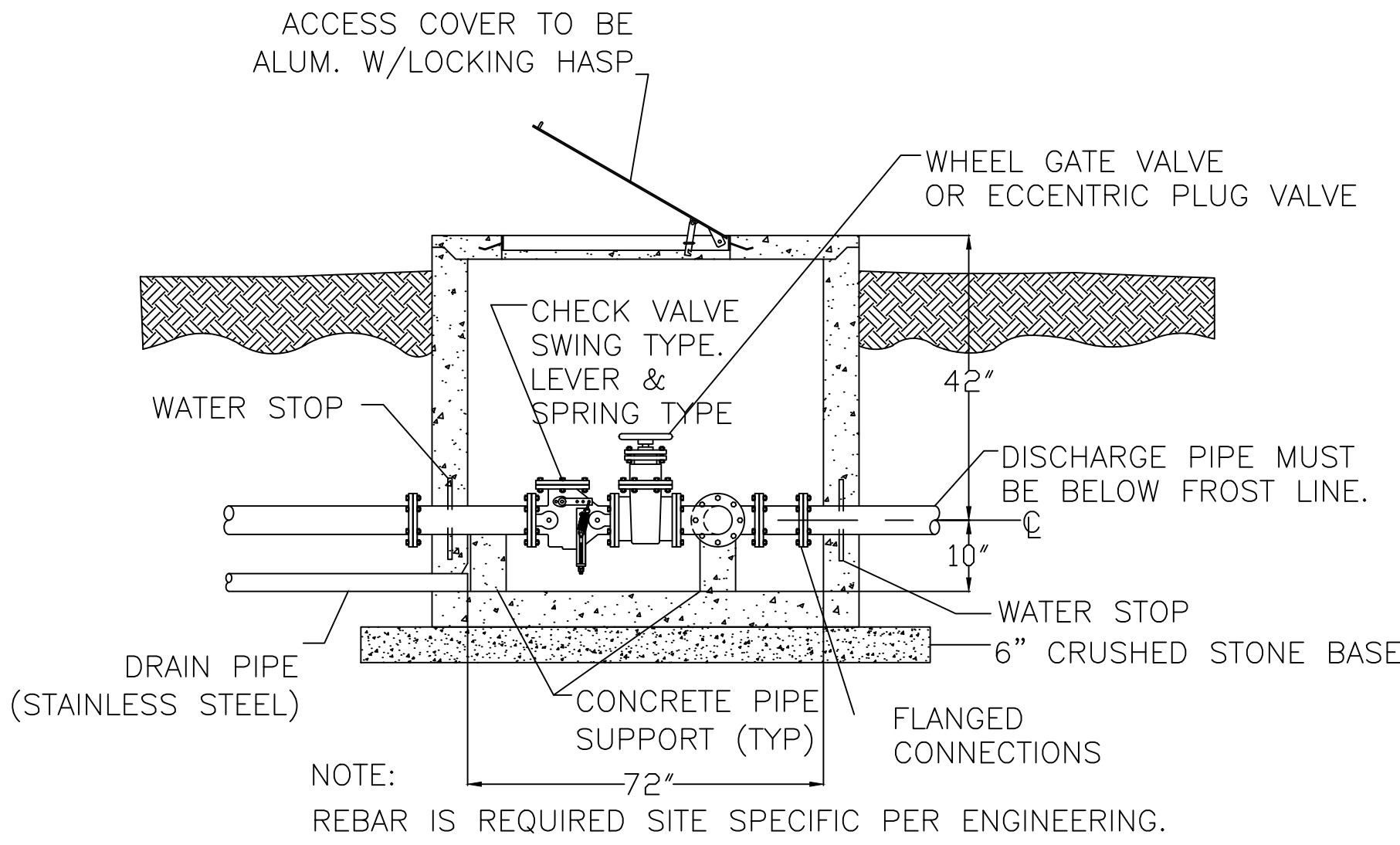
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APPROVED BY: <b>AW</b>	DATE: <b>08/27/2024</b>
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SHEET NUMBER: <b>1</b>	OF <b>2</b>
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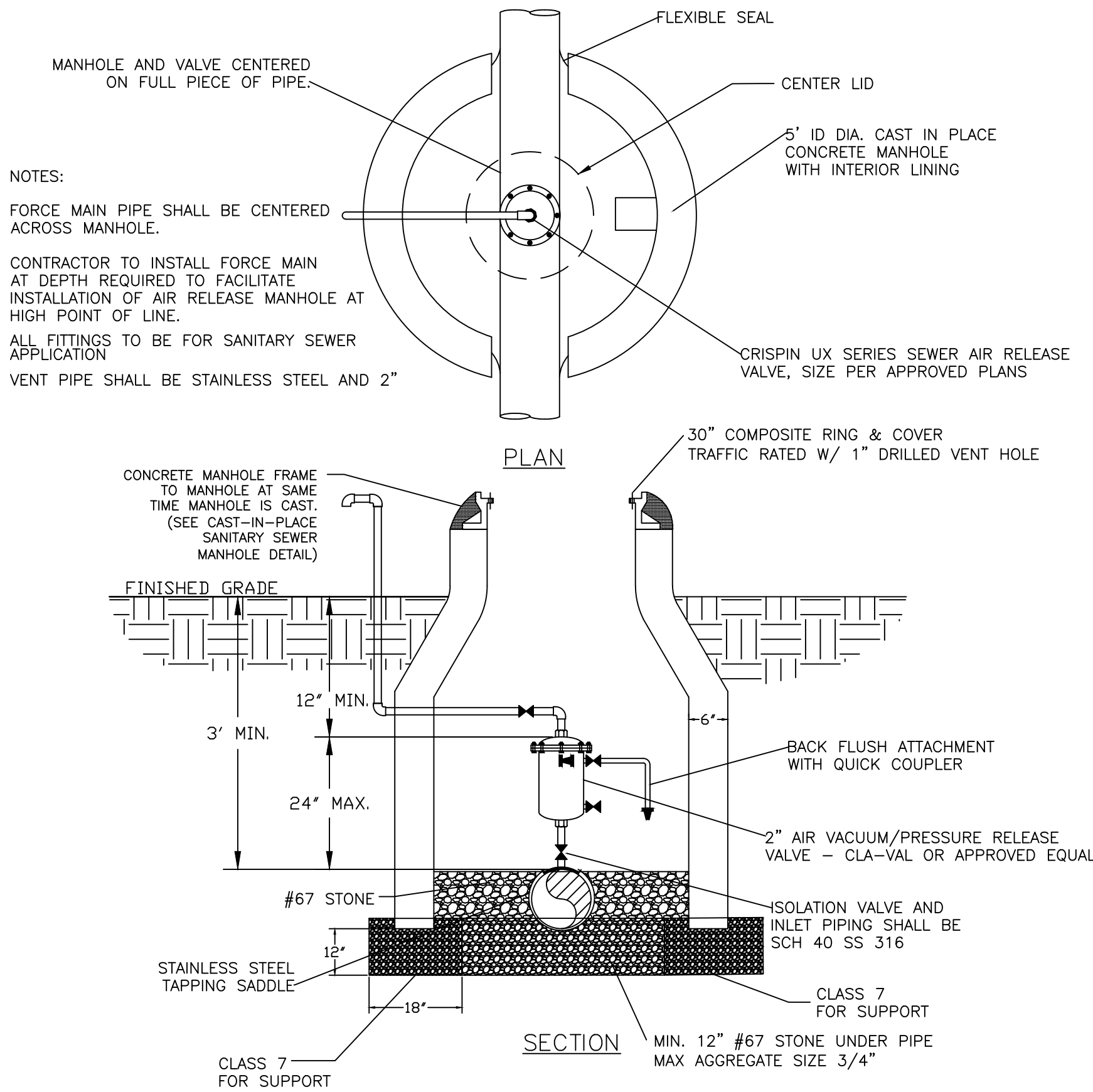


LIFT STATION VALVE VAULT DETAIL



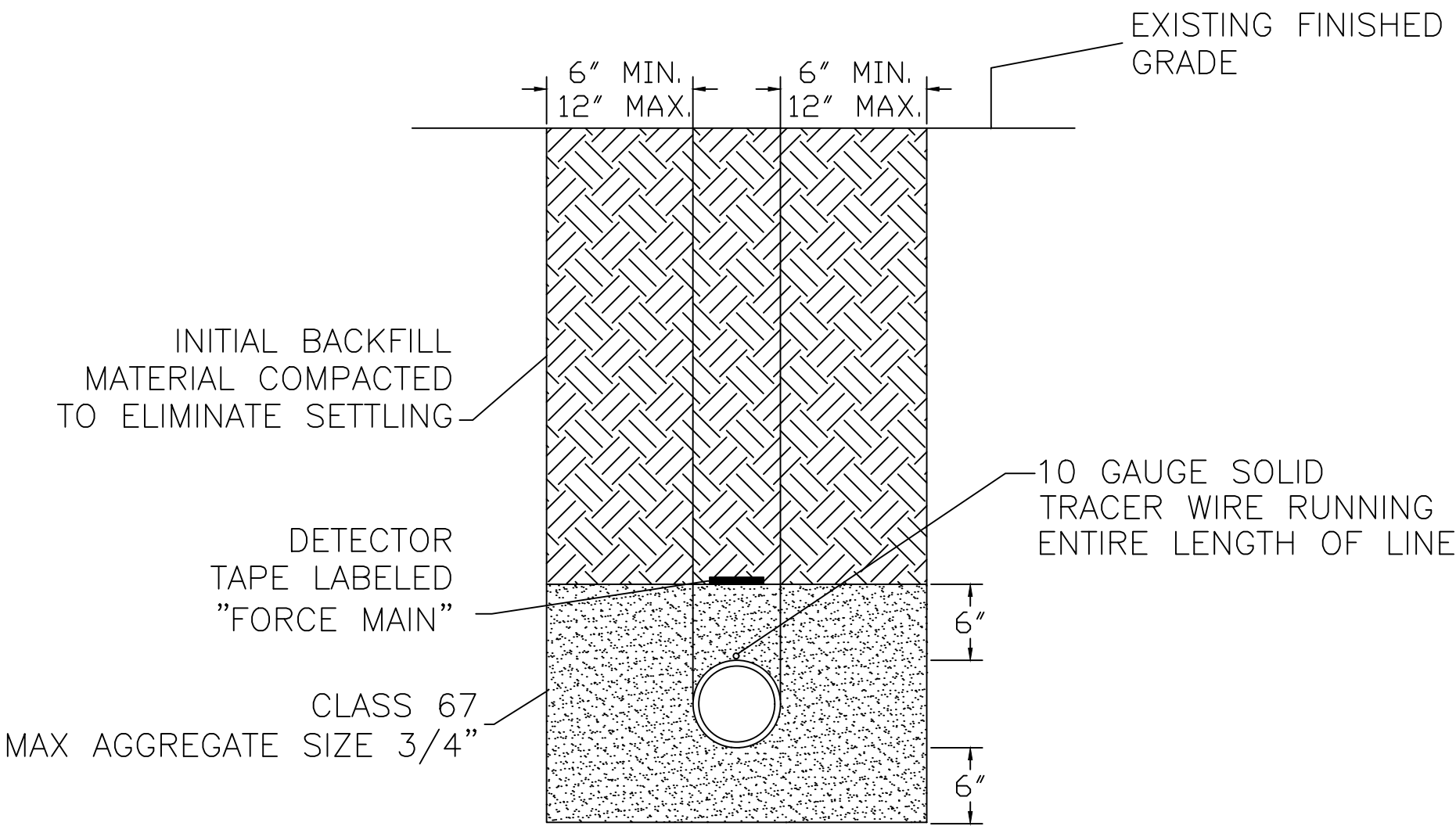
LIFT STATION DETAILS: LS07

AIR VACUUM/RELEASE  
MANHOLE FOR FORCE MAIN



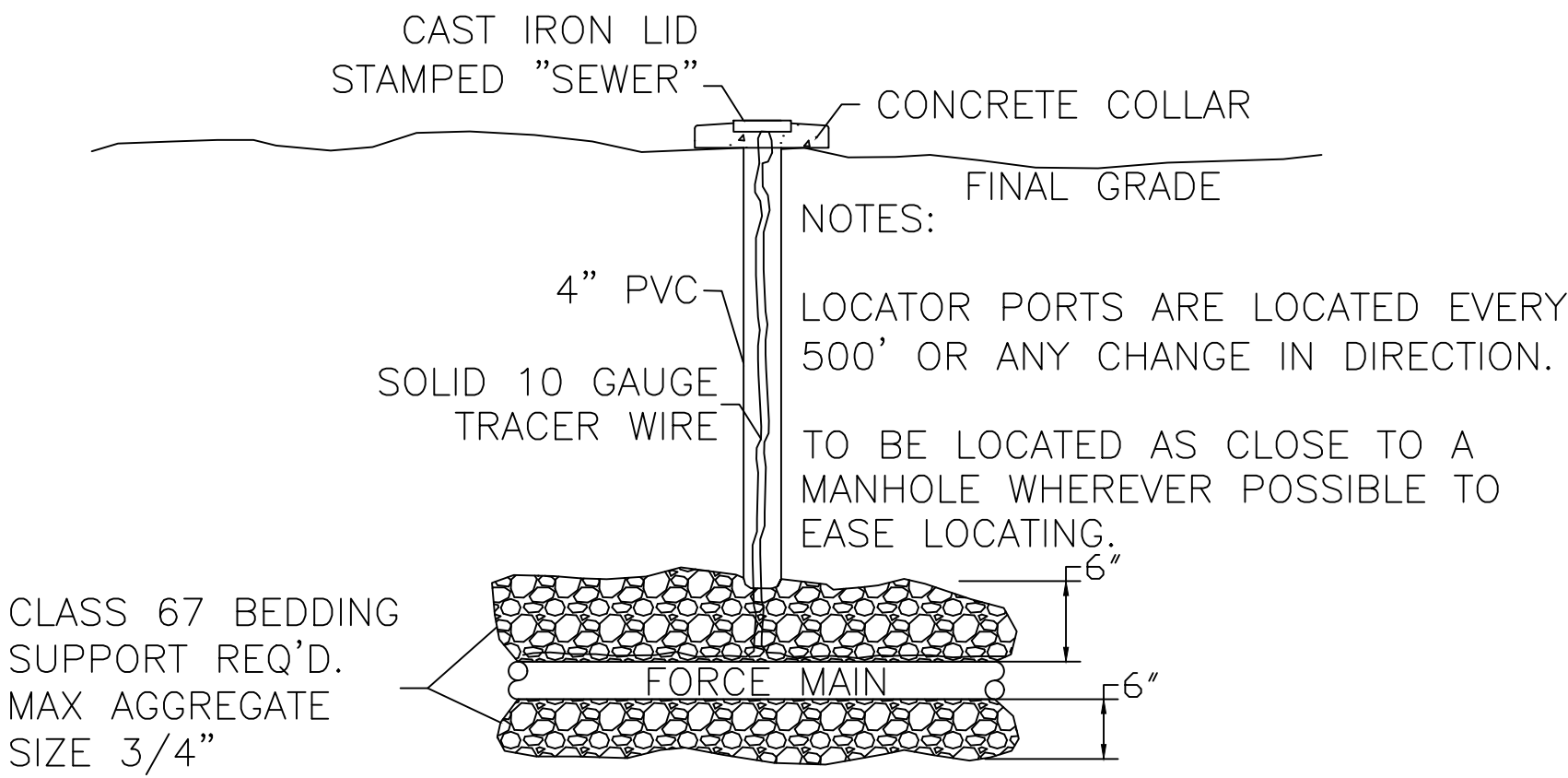
LIFT STATION DETAILS: LS08

TYPICAL BEDDING DETAIL  
FOR FORCE MAIN

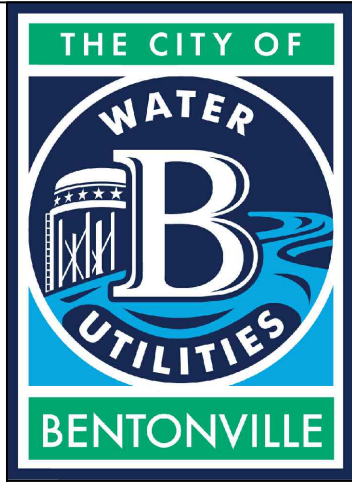


LIFT STATION DETAILS: LS09

TRACER WIRE PORT

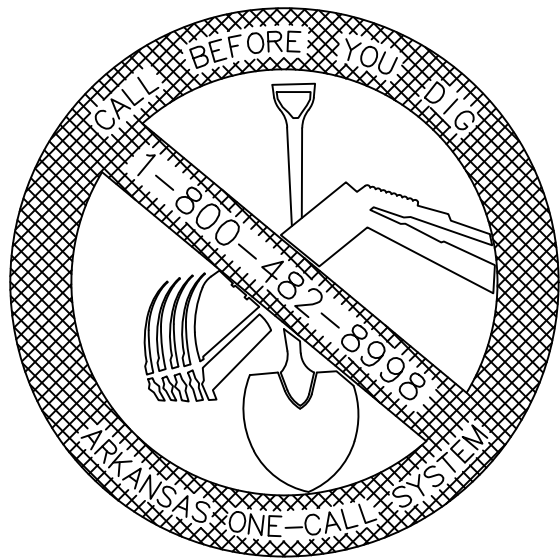


LIFT STATION DETAILS: LS10



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LIFT STATION  
DETAILS



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