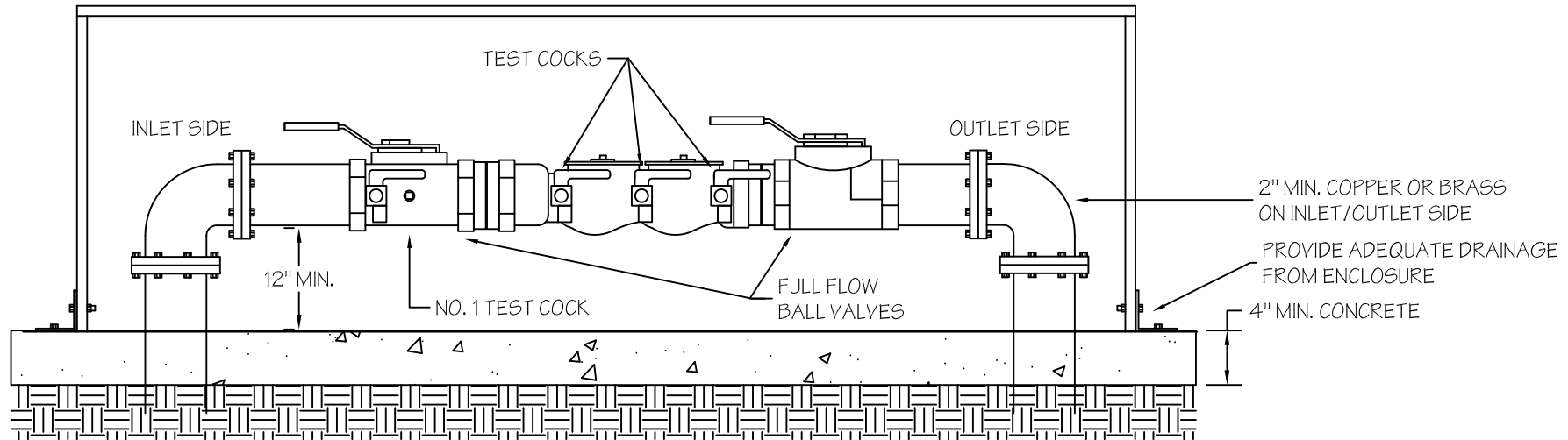


NOTE:
 APPROPRIATE THRUST RESTRAINT MEASURES ARE TO BE
 DETERMINED BY OWNER/INSTALLER

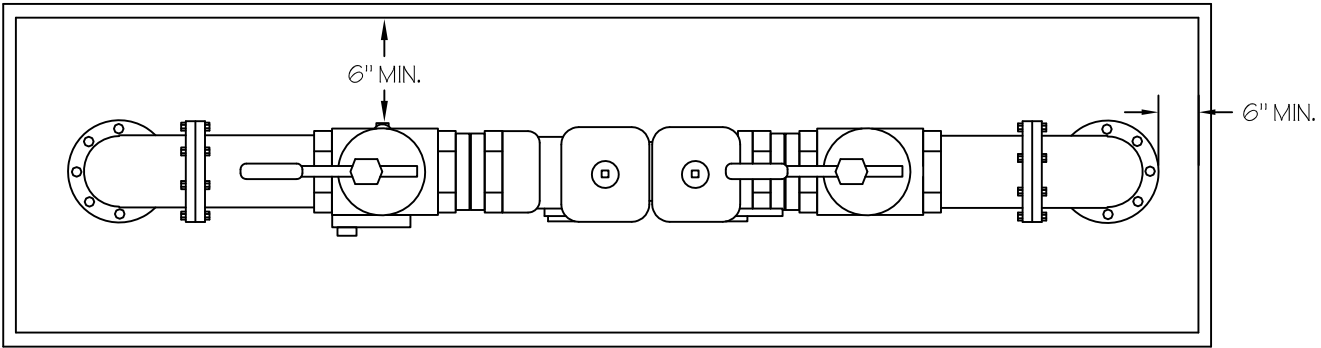
ENCLOSE OR INSULATE DEVICE
 (MEASUREMENTS TO BE DETERMINED
 BY OWNER AND APPROVED BY SCPW
 ENGINEER)



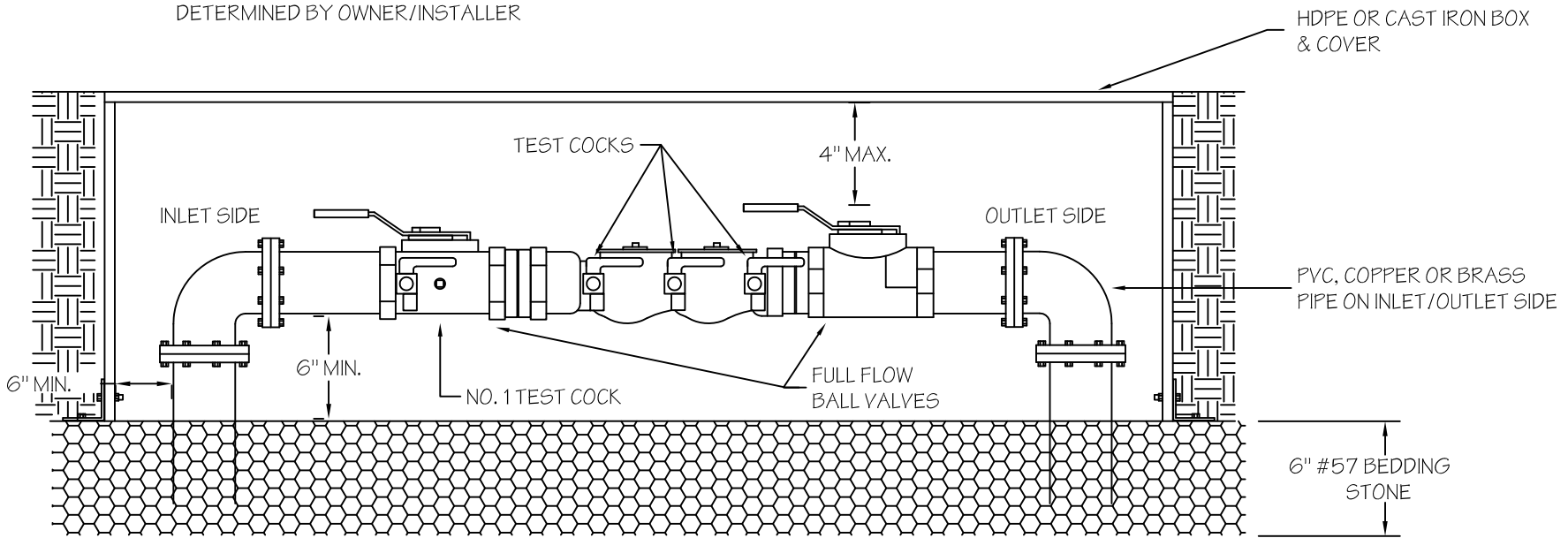
NOTES:

1. 2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLIES MAY BE INSTALLED ABOVE GROUND AS SHOWN OR BELOW GROUND AS SHOWN ON THE 2" AND SMALLER BACKFLOW PREVENTER - BELOW GROUND DETAIL
2. ALL REDUCED PRESSURE AND PRESSURE VACUUM BREAKER DEVICES SHALL BE INSTALLED ABOVE GROUND AS SHOWN ABOVE

2/14/11



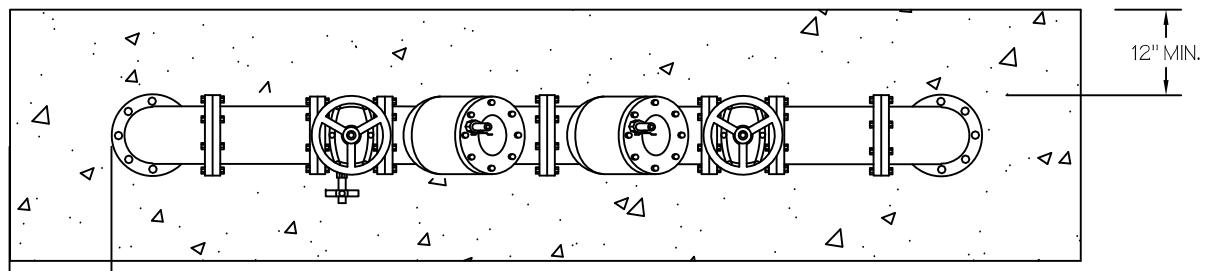
NOTE:
 APPROPRIATE THRUST RESTRAINT MEASURES ARE TO BE
 DETERMINED BY OWNER/INSTALLER



NOTES:

1. 2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLIES MAY BE INSTALLED BELOW GROUND AS SHOWN OR ABOVE GROUND AS SHOWN ON THE 2" AND SMALLER BACKFLOW PREVENTER - ABOVE GROUND DETAIL
2. ALL REDUCED PRESSURE AND PRESSURE VACUUM BREAKER DEVICES SHALL BE INSTALLED ABOVE GROUND

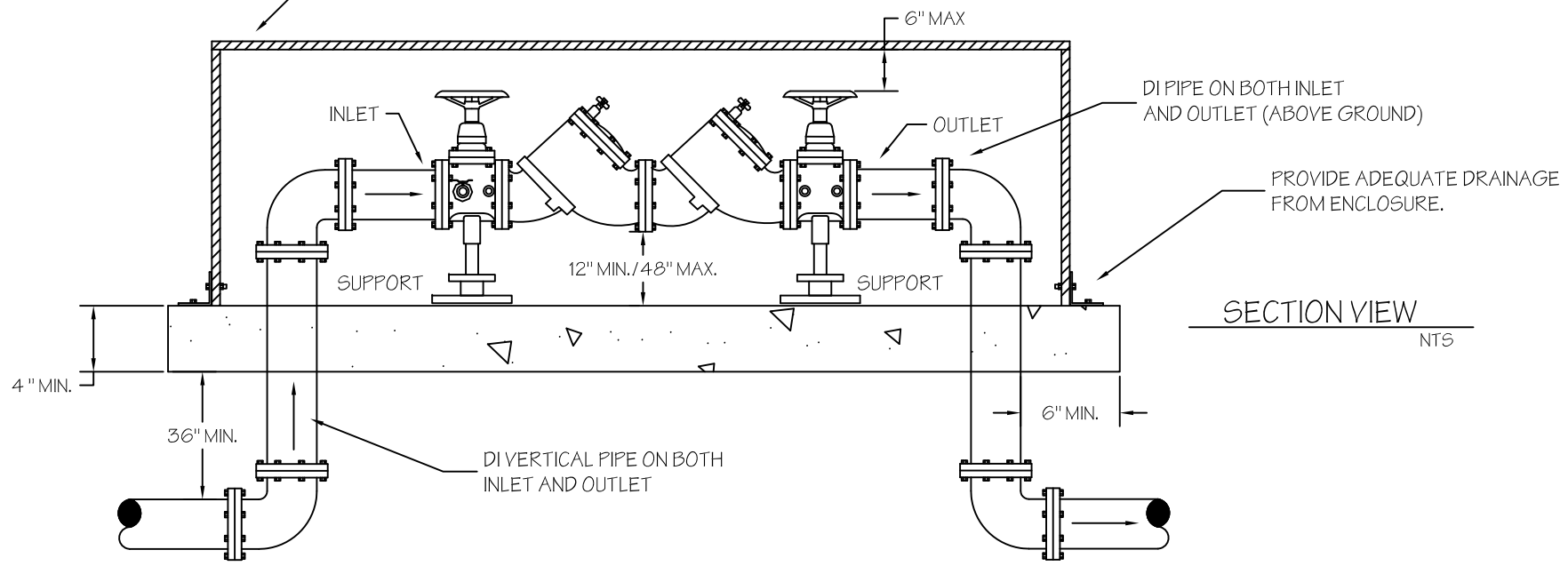
2/14/11



PLAN VIEW
NTS

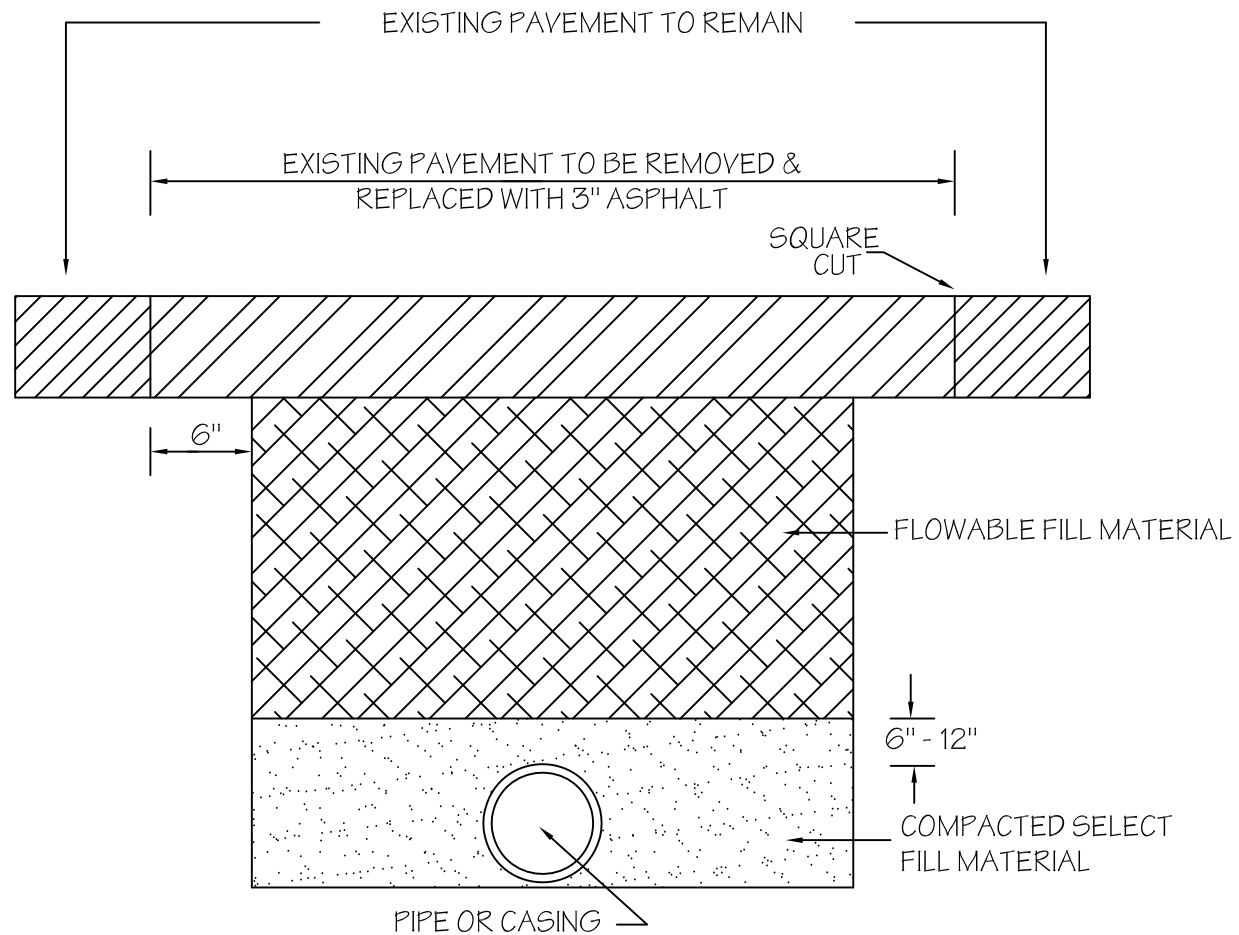
NOTE:
APPROPRIATE THRUST RESTRAINT AND
SUPPORT MEASURES ARE TO BE
DETERMINED BY OWNER/INSTALLER.

ENCLOSE OR INSULATE DEVICE
(MEASUREMENTS TO BE DETERMINED BY OWNER
AND APPROVED BY SCPW ENGINEER)



SECTION VIEW
NTS

2/14/11

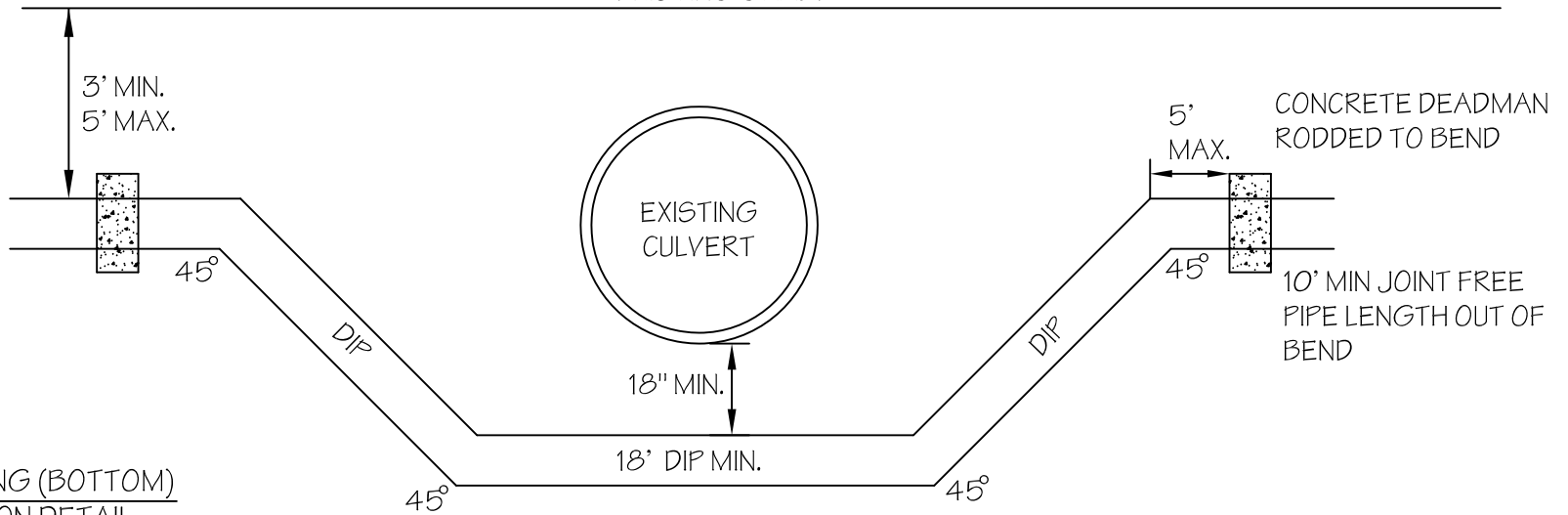


NOTES:

- STEEL PLATES SECURED WITH ASPHALT "RAMPS" SHALL BE REQUIRED UNTIL THE FILL HAS SET
- ASPHALT SHALL BE TYPE 1B

2/14/11

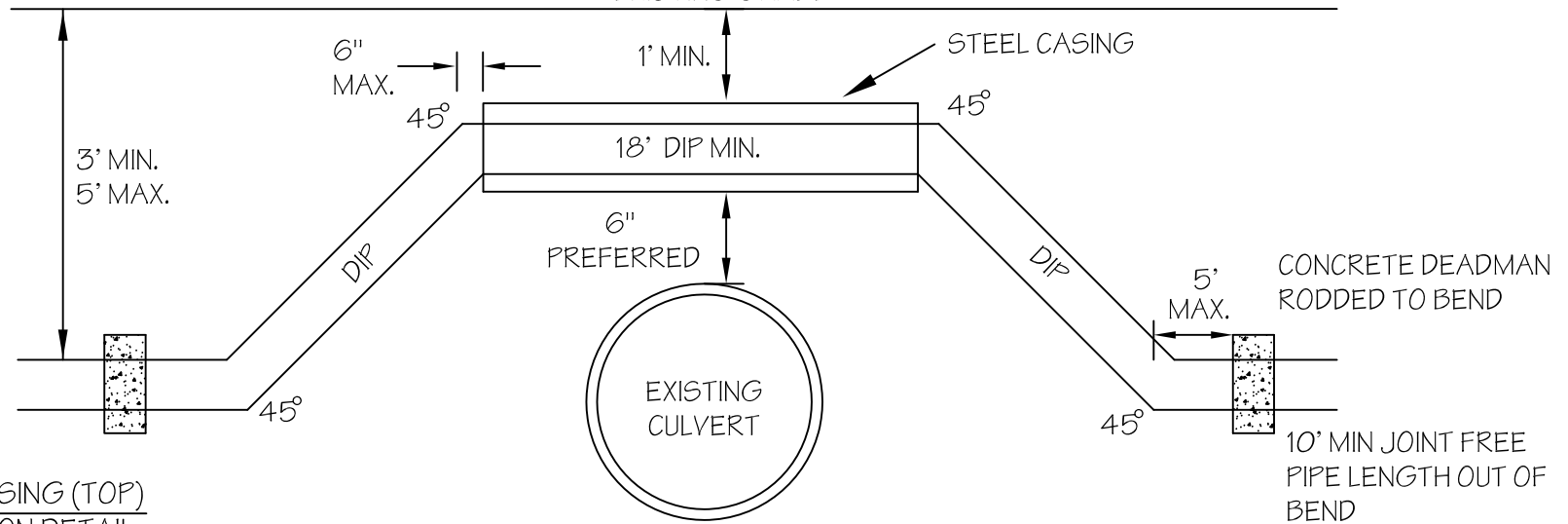
EXISTING GRADE



CULVERT CROSSING (BOTTOM)
PIPE DEFLECTION DETAIL

NOTE:
USE DEFLECTION UNDER CONFLICT UNLESS
RECEIVE ADVANCED SCPW APPROVAL.

EXISTING GRADE



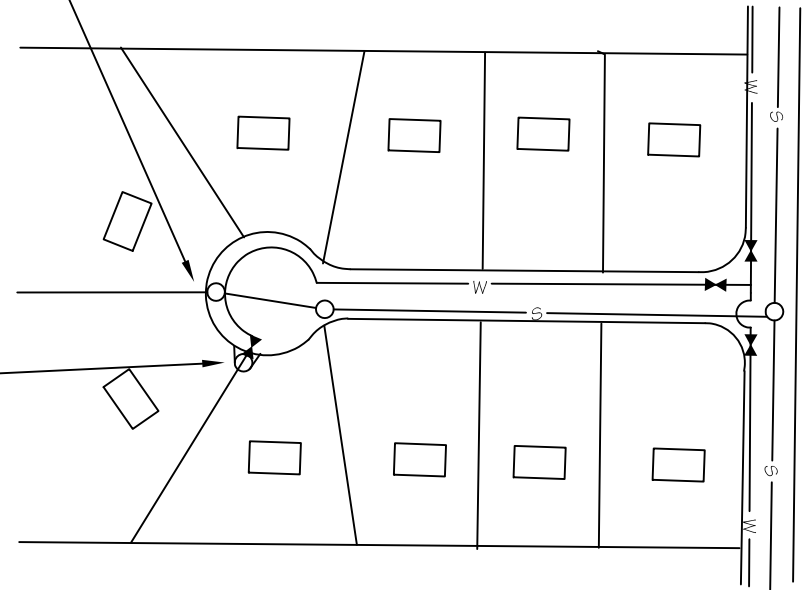
CULVERT CROSSING (TOP)
PIPE DEFLECTION DETAIL

2/14/11

SEWER LINES SHALL END AT STANDARD MANHOLES OUTSIDE OF PAVEMENT.

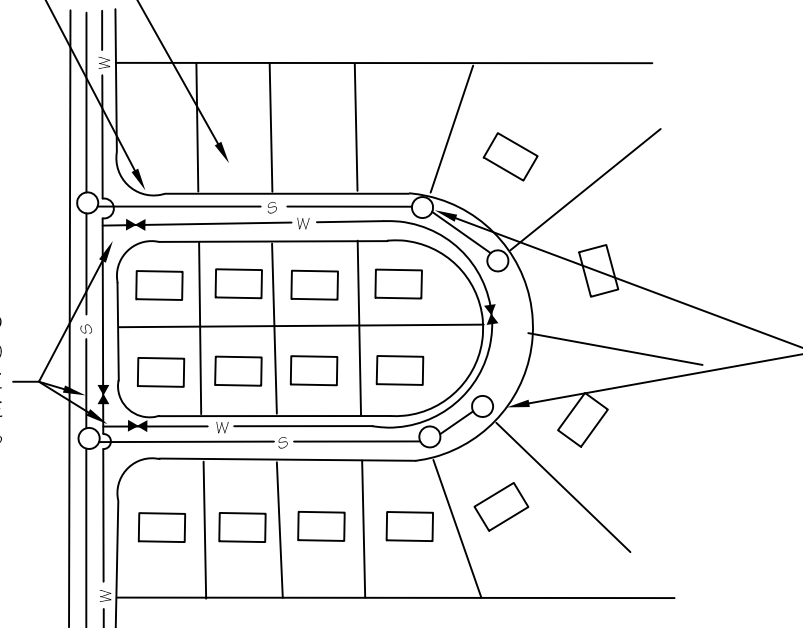
WATER AND SEWER LINES SHALL BE DESIGNED AND CONSTRUCTED OUTSIDE OF PAVEMENT WHEREVER POSSIBLE. THE PREFERRED LOCATION IS A UNIFORM DISTANCE (3' MIN FOR WATER, 5' MIN FOR SEWER) OFF PARALLEL ROADS

WATER LINES SHALL END AT FIRE HYDRANTS WHEN INSTALLED IN CUL-DE-SACS, OTHERWISE THE WATER LINES SHALL BE LOOPED BACK TO THE MAIN ALONG THE INTERSECTING STREET. FIRE HYDRANTS SHALL BE PLACED ON RIGHT-OF-WAY LINE AND PROPERTY LINE INTERSECTIONS WHEN POSSIBLE.



CUL-DE-SAC
N.T.S.

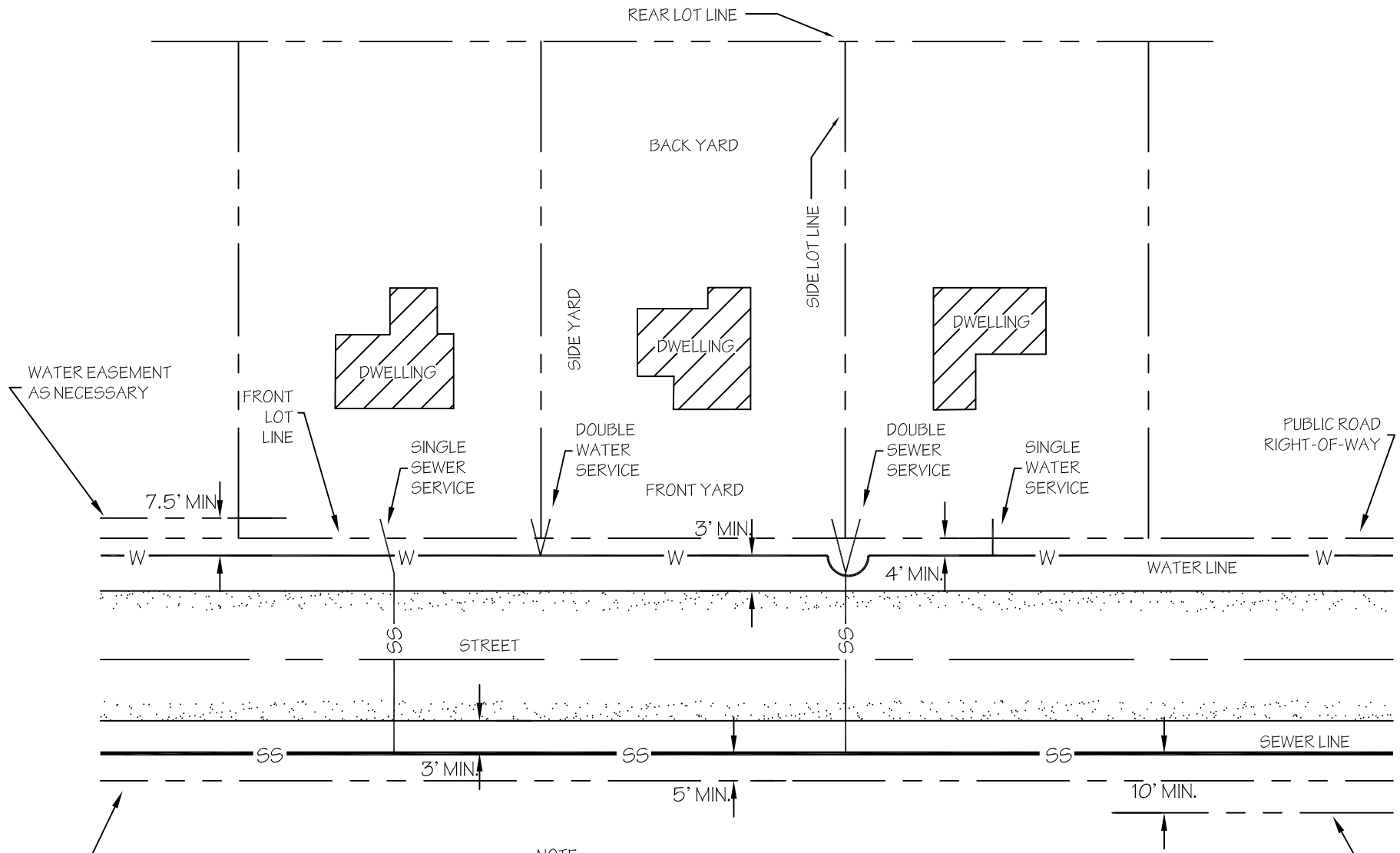
WATER LINES SHALL BE VALVED TO MINIMIZE DISRUPTION TO SERVICE DURING MAINTENANCE AND TO FACILITATE FLUSHING REQUIREMENTS



SEWER MANHOLES SHALL BE CONSTRUCTED IN LINE WITH PROPERTY CORNER AND STREET RIGHT-OF-WAY INTERSECTIONS.

LOOP
N.T.S.

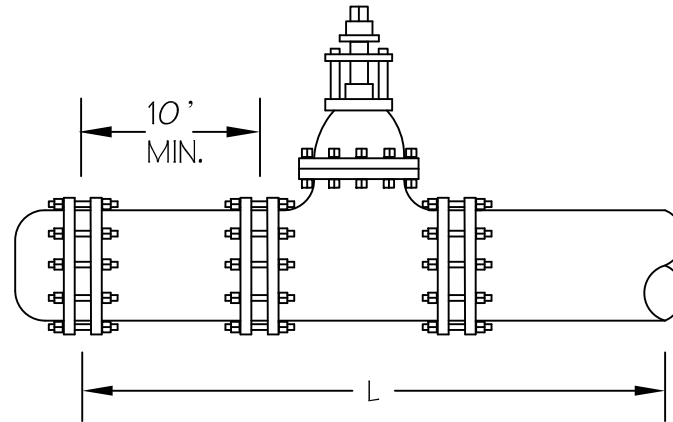
2/14/11



- NOTE:
1. DOUBLE WATER AND SEWER SERVICES SHALL BE INSTALLED AT OPPOSITE LOT CORNERS
 2. SINGLE WATER AND SEWER SERVICES SHALL BE INSTALLED IN THE MIDDLE OF THE LOT BEING SERVED (MINIMUM 10' SEPARATION)

SEWER EASEMENT AS NECESSARY

2/14/11

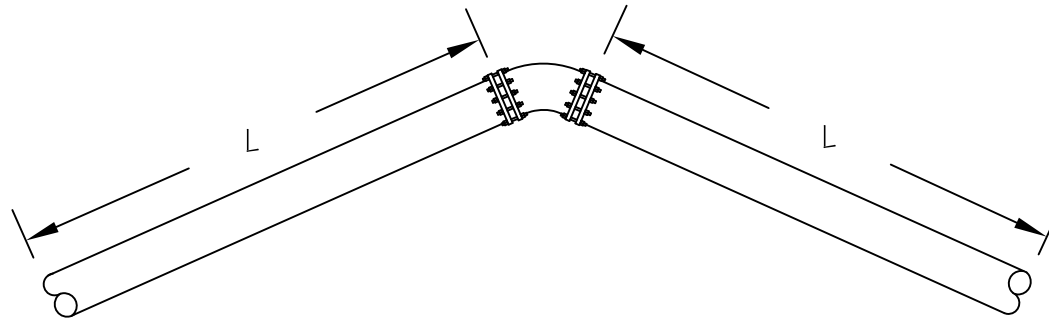


MAIN DIAMETER	LENGTH
4 "	39'
6 "	55'
8 "	72'
10 "	86'
12 "	102'
16 "	131'
24 "	185'

NOTES

- ALL CAPS TO HAVE RESTRAINING FLANGES
- BELL JOINTS TO BE RESTRAINED BY RESTRAINING GASKETS (AMERICAN FAST GRIP, GRIFFIN FIELD LOK 350, McWANE SURE STOP OR US PIPE FIELD LOK 350) OR BELL RESTRAINT COUPLINGS (EBAA IRON 1500-00SS4, FORD 1390-X, ROMAC 611 OR SMITH-BLAIR 165)
- LENGTHS SHOWN WERE CALCULATED FOR PVC PIPE, 3' DEEP IN SILTY SANDY SOILS - D.I.P., DEEPER CUTS AND/OR MORE COHESIVE SOIL WILL LESSEN THESE LENGTHS

2/14/11

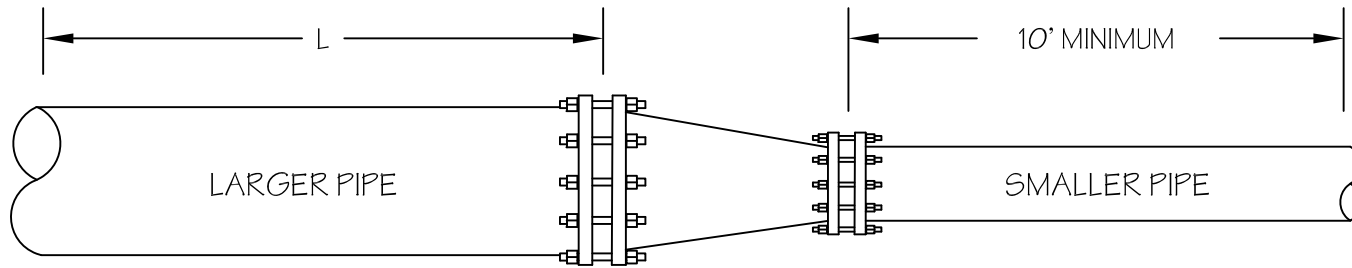


PIPE DIAMETER	L FOR 11-1/4 BEND	L FOR 22-1/2 BEND	L FOR 45 BEND	L FOR 90 BEND
4"	10'	10'	10'	18'
6"	10'	10'	10'	25'
8"	10'	10'	13'	32'
10"	10'	10'	16'	38'
12"	10'	10'	19'	45'
16"	10'	11'	23'	57'
24"	10'	16'	32'	78'

NOTES:

- ALL BENDS TO HAVE RESTRAINING FLANGES
- BELL JOINTS TO BE RESTRAINED BY RESTRAINING GASKETS (AMERICAN FAST GRIP, GRIFFIN FIELD LOK 350, McWANE SURE STOP, US PIPE FIELD LOK 350) OR BELL RESTRAINT COUPLINGS (EBAA IRON 1500-00554, FORD 1390-X, ROMAC 611 OR SMITH-BLAIR 165)
- LENGTHS SHOWN WERE CALCULATED FOR PVC PIPE, 3' DEEP IN SILTY SANDY SOILS - D.I.P., DEEPER CUTS AND/OR MORE COHESIVE SOIL WILL LESSEN THESE LENGTHS

2/14/11

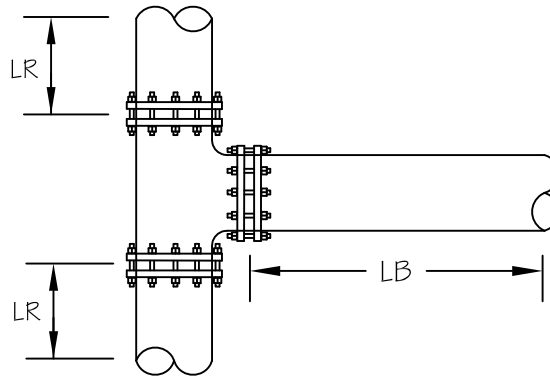


LARGER PIPE DIAMETER	SMALLER PIPE DIAMETER						
	4"	6"	8"	10"	12"	16"	24"
	LENGTHS						
6"	28'	N/A	N/A	N/A	N/A	N/A	N/A
8"	52'	30'	N/A	N/A	N/A	N/A	N/A
10"	70'	53'	29'	N/A	N/A	N/A	N/A
12"	88'	74'	54'	50'	N/A	N/A	N/A
16"	121'	110'	95'	92'	56'	N/A	N/A
24"	178'	172'	162'	160'	136'	101'	N/A

NOTES:

- ALL REDUCERS TO HAVE RESTRAINING FLANGES
- BELL JOINTS TO BE RESTRAINED BY RESTRAINING GASKETS (AMERICAN FAST GRIP, GRIFFIN FIELD LOK 350, McWANE SURE STOP OR US PIPE FIELD LOK 350) OR BELL RESTRAINT COUPLINGS (EBAA IRON 1500-00564, FORD 1390-X, ROMAC 611 OR SMITH-BLAIR 165)
- LENGTHS SHOWN WERE CALCULATED FOR PVC PIPE, 3' DEEP IN SILTY SANDY SOILS - D.I.P., DEEPER CUTS AND/OR MORE COHESIVE SOIL WILL LESSEN THESE LENGTHS

2/14/11

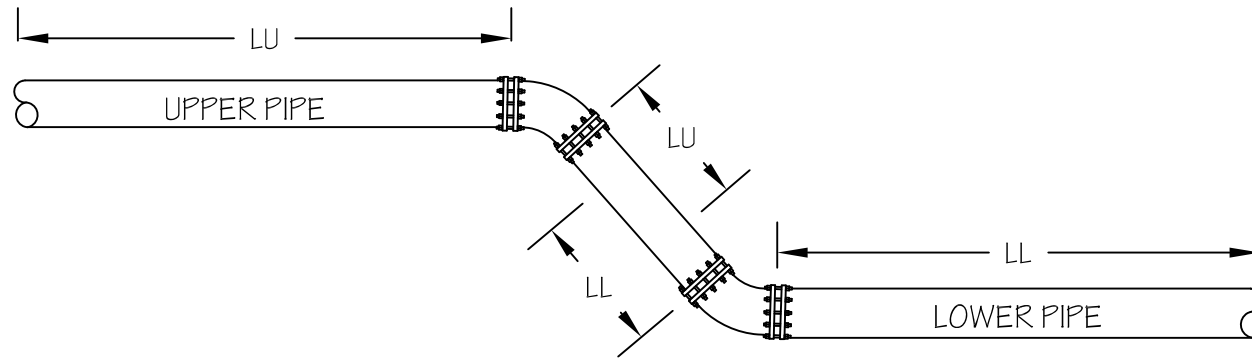


RUN DIAMETER	BRANCH DIAMETER													
	4"		6"		8"		10"		12"		16"		24"	
	LR	LB	LR	LB	LR	LB	LR	LB	LR	LB	LR	LB	LR	LB
4"	10'	10'	10'	N/A	10'	N/A	10'	N/A	10'	N/A	10'	N/A	10'	N/A
6"	10'	10'	10'	18'	10'	N/A	10'	N/A	10'	N/A	10'	N/A	10'	N/A
8"	10'	10'	10'	10'	10'	35'	10'	N/A	10'	N/A	10'	N/A	10'	N/A
10"	10'	10'	10'	10'	10'	24'	10'	48'	10'	N/A	10'	N/A	10'	N/A
12"	10'	10'	10'	10'	10'	14'	10'	40'	10'	63'	10'	N/A	10'	N/A
16"	10'	10'	10'	10'	10'	10'	10'	23'	10'	49'	10'	92'	10'	N/A
24"	10'	10'	10'	10'	10'	10'	10'	10'	10'	16'	10'	18'	10'	144'

NOTES:

- ALL TEES TO HAVE RESTRAINING FLANGES
- BELL JOINTS TO BE RESTRAINED BY RESTRAINING GASKETS (AMERICAN FAST GRIP, GRIFFIN FIELD LOK 350, McWANE SURE STOP OR US PIPE FIELD LOK 350) OR BELL RESTRAINT COUPLINGS (EBAA IRON 1500-00SS4, FORD 1390-X, ROMAC 611 OR SMITH-BLAIR 165)
- LENGTHS SHOWN WERE CALCULATED FOR PVC PIPE, 3' DEEP IN SILTY SANDY SOILS - D.I.P., DEEPER CUTS AND/OR MORE COHESIVE SOIL WILL LESSEN THESE LENGTHS
- FOR LR'S OTHER THAN 10', THE LB'S MUST BE CALCULATED

2/14/11

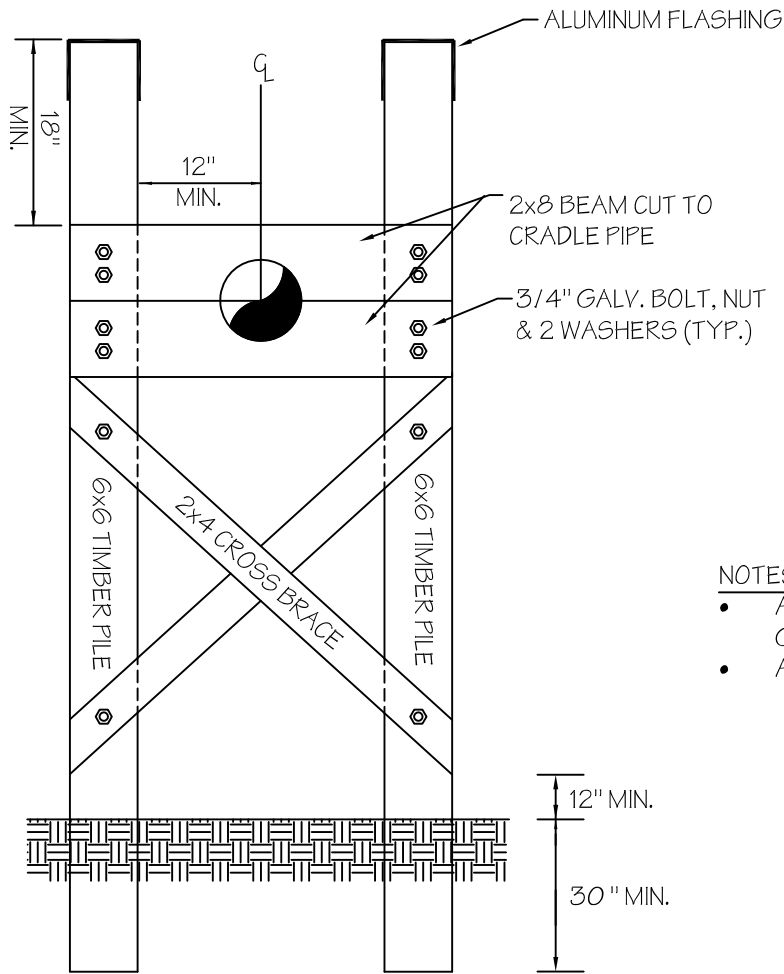


PIPE DIAMETER	LU FOR 11-1/4 BEND	LL FOR 11-1/4 BEND	LU FOR 22-1/2 BEND	LL FOR 22-1/2 BEND	LU FOR 45 BEND	LL FOR 45 BEND
4 "	10'	10'	10'	10'	16'	10'
6 "	10'	10'	11'	10'	23'	10'
8 "	10'	10'	14'	10'	30'	13'
10 "	10'	10'	17'	10'	36'	16'
12 "	10'	10'	20'	10'	42'	19'
16 "	13'	10'	26'	11'	54'	23'
24 "	18'	10'	37'	16'	77'	32'

NOTES:

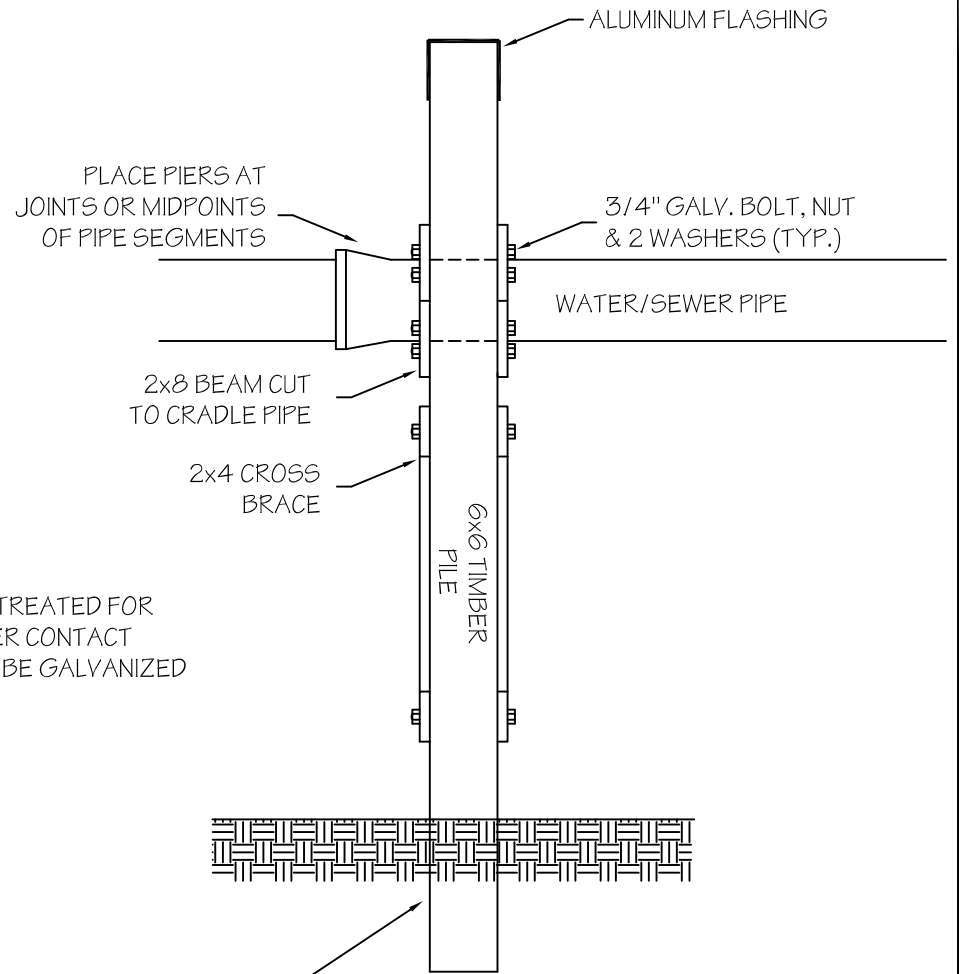
- ALL BENDS TO HAVE RESTRAINING FLANGES
- BELL JOINTS TO BE RESTRAINED BY RESTRAINING GASKETS (AMERICAN FAST GRIP, GRIFFIN FIELD LOK 350, McWANE SURE STOP OR US PIPE FIELD LOK 350) OR BELL RESTRAINT COUPLINGS (EBAA IRON 1500-00564, FORD 1390-X, ROMAC 611 OR SMITH-BLAIR 165)
- LENGTHS SHOWN WERE CALCULATED FOR PVC PIPE, 3' DEEP IN SILTY SANDY SOILS - D.I.P., DEEPER CUTS AND/OR MORE COHESIVE SOIL WILL LESSEN THESE LENGTHS
- 90° BENDS SHALL NOT BE USED AS OFFSET UNLESS PRIOR APPROVAL IS OBTAINED FROM SCPW

2/14/11



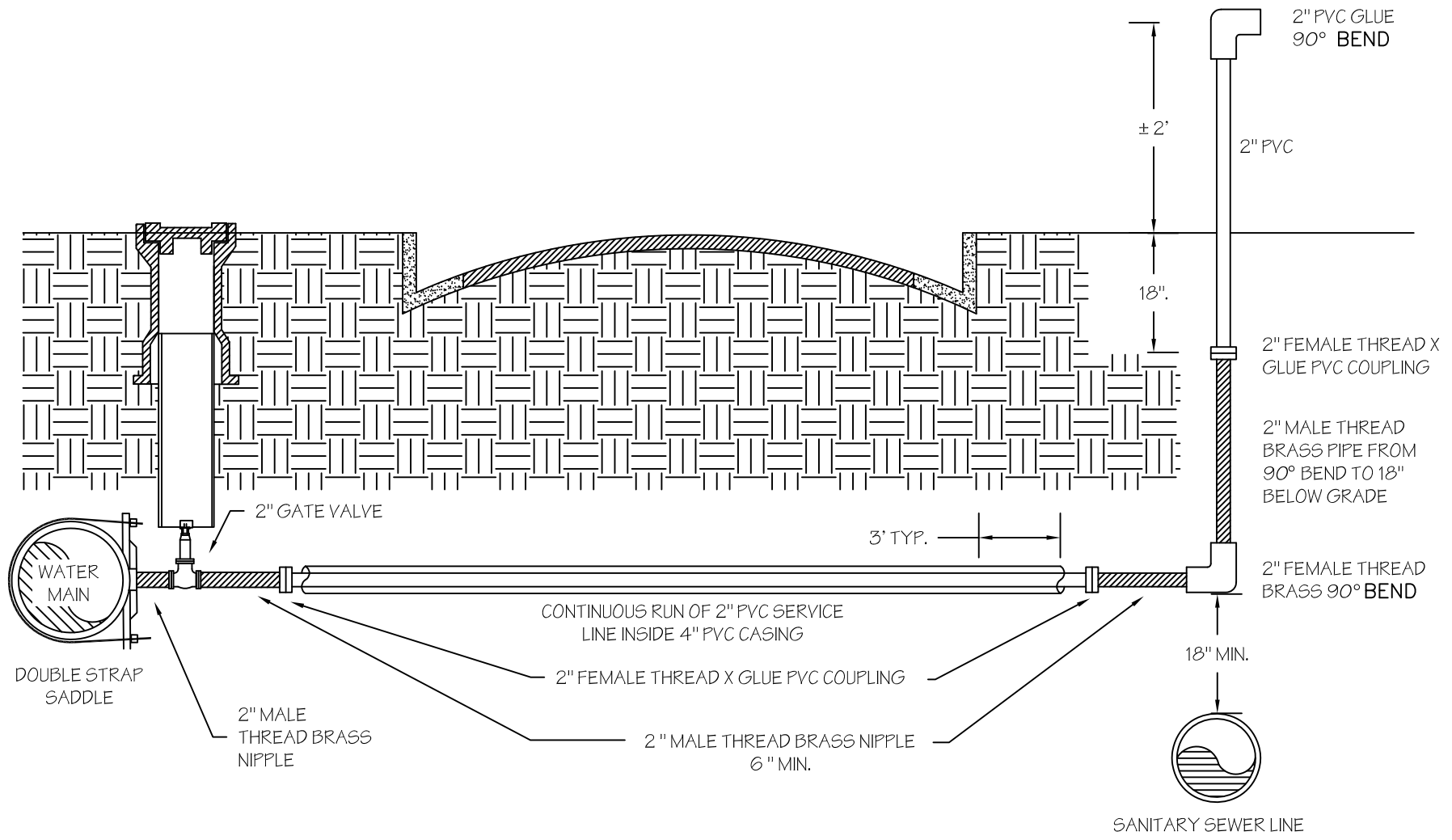
NOTES:

- ALL TIMBER TO BE TREATED FOR GROUND AND WATER CONTACT
- ALL HARDWARE TO BE GALVANIZED



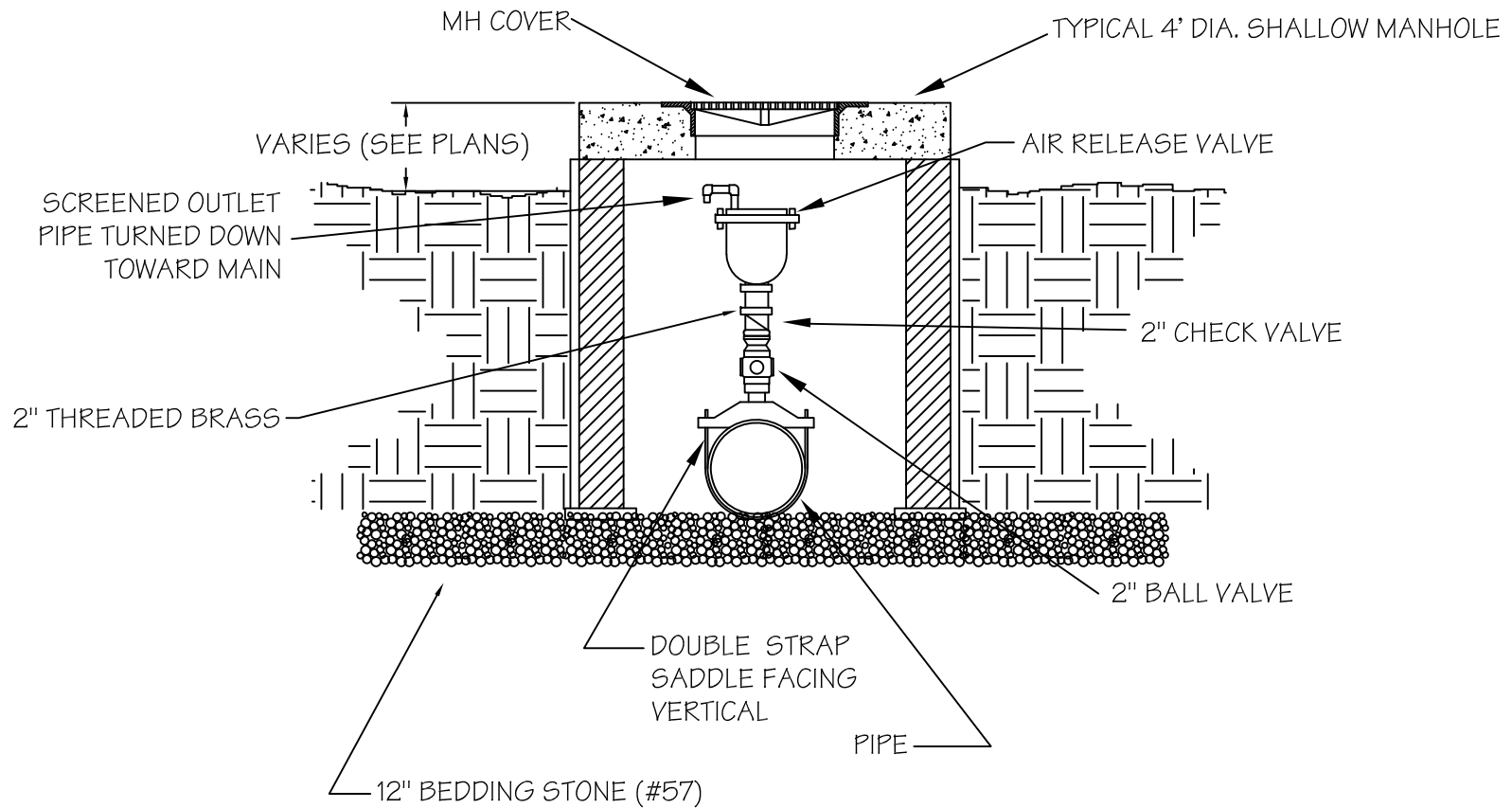
BACKFILL PILE EXCAVATIONS WITH 3000 PSI CONCRETE (MIN. 6" EACH SIDE PILE)

2/14/11



NOTES:
 TRACER WIRE SHALL BE TAPED TO THE TOP OF ALL SERVICE PIPE AND WARNING TAPE SHALL BE INSTALLED 18" ABOVE SERVICE PIPE, AS OUTLINED IN THE SPECIFICATIONS

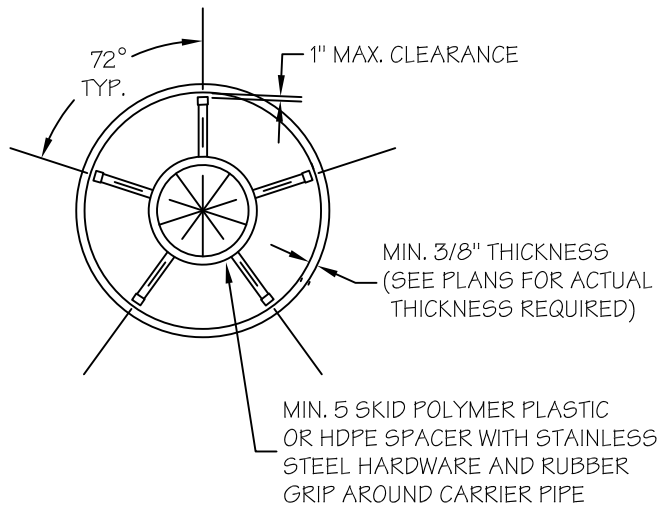
2/14/11



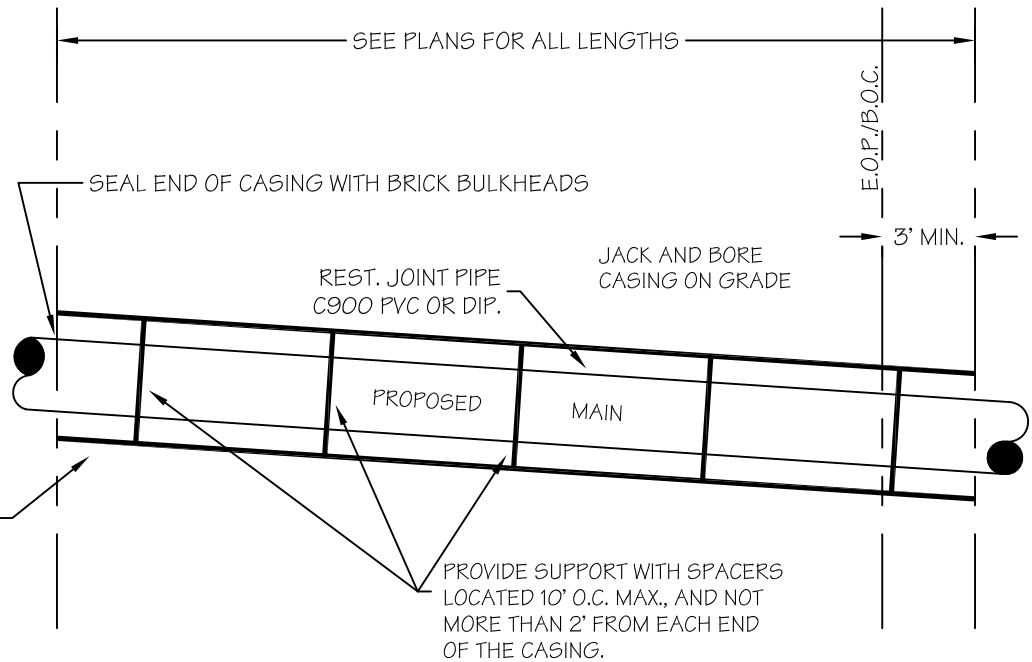
PREFERRED MATERIALS

- SADDLE - CASCADE (CNS2, CS12, CS22), JCM (406), MUELLER (DR25), ROMAC (202NS), SMITH BLAIR (317)
- BALL VALVE - FORD (FB600-4-LN), McDONALD (4701BL), MUELLER (B25005)
- AIR RELEASE - H-TEC (986)
- RING AND COVER - EAST JORDAN (V1384), USF (668, KL)

8/25/17



MINIMUM 3/8" CASING THICKNESS COATED ON INTERIOR AND EXTERIOR WITH 8 MILS DRY FILM THICKNESS COAL TAR EPOXY, ELSE USE 1/2" MINIMUM THICKNESS UNCOATED STEEL CASING



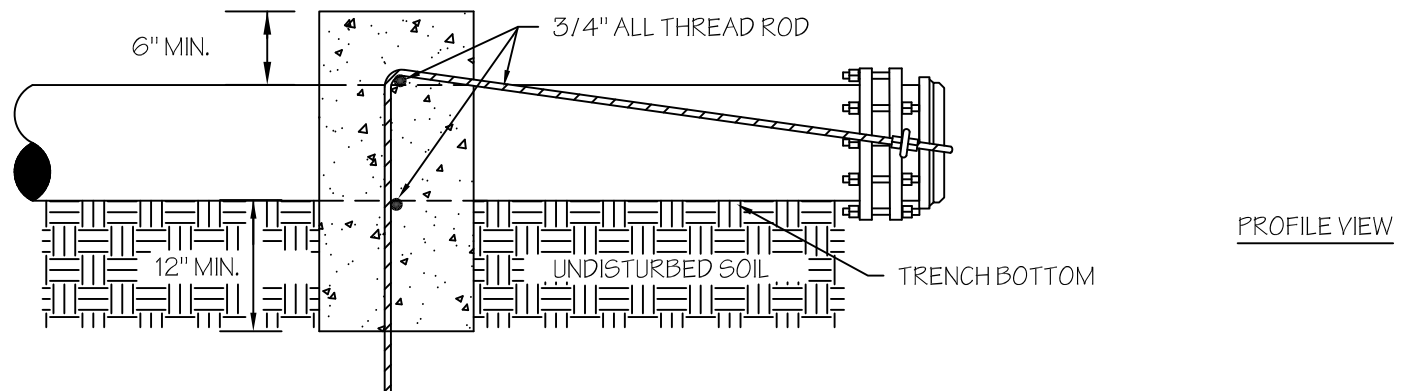
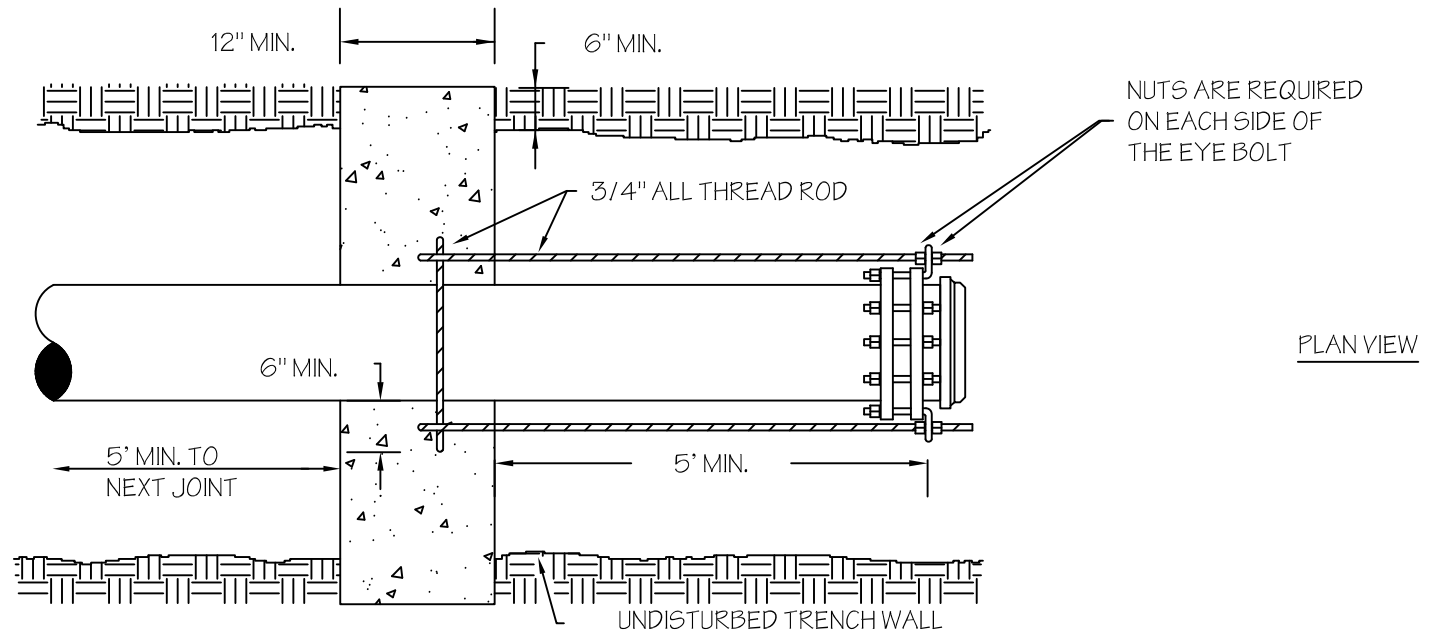
NOTES

- CONTRACTOR IS RESPONSIBLE FOR SECURING PERMISSION FROM ADJACENT LAND OWNERS FOR THE BORE PIT, IF NECESSARY
- THE BORE PIT SHALL BE BACKFILLED WITH SELECT FILL MATERIAL IN ACCORDANCE WITH THE SPECS

PREFERRED MATERIALS

- SPACERS - BWM (KP), CASCADE (PHOENIX GOLD), RACI (MEDIUM)
- END SEALS - BWM (PO), CASCADE (CCES)
- CASING - SOUTHLAND PIPE

8/25/17



NOTES:

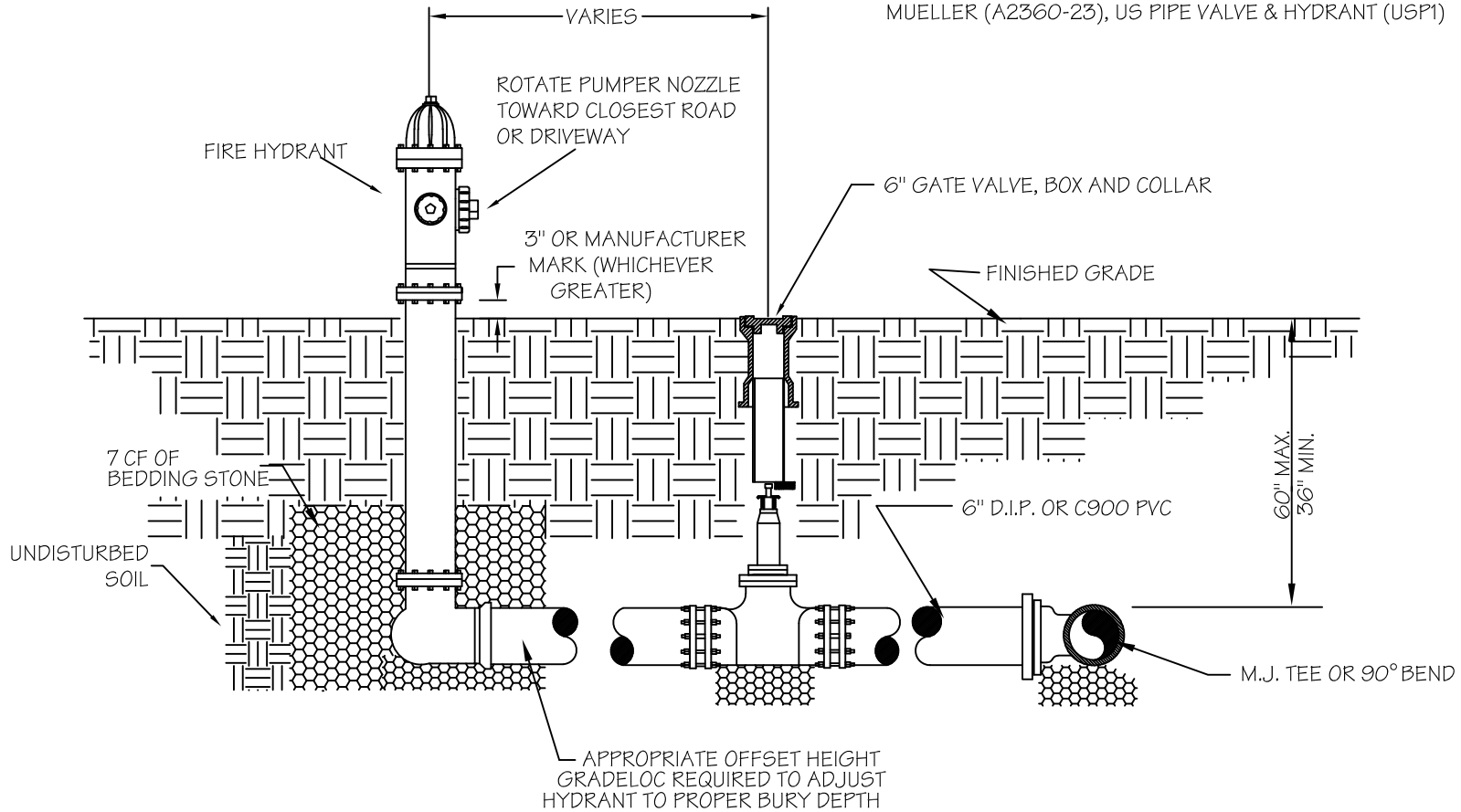
- THE ACTUAL SIZE OF THE DEADMAN AND NUMBER OF THREADED RODS WILL DEPEND ON THE SIZE AND TYPE OF FITTING INSTALLED
- THE AMOUNT OF CONCRETE REQUIRED FOR A DEADMAN SHALL BE A MINIMUM OF TWICE THE CALCULATED AMOUNT REQUIRED FOR A STANDARD THRUST BLOCK
- THE CONCRETE MIX USED SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI

2/14/11

HYDRANT SHALL BE PAINTED (SHERWIN WILLIAMS KEM 4000 ENAMEL) YELLOW (B55Y300) WITH WHITE (B55W311) CAPS AND BONNET. DO NOT PAINT THE OPERATING NUT OR OIL RESERVOIR

PREFERRED MATERIALS

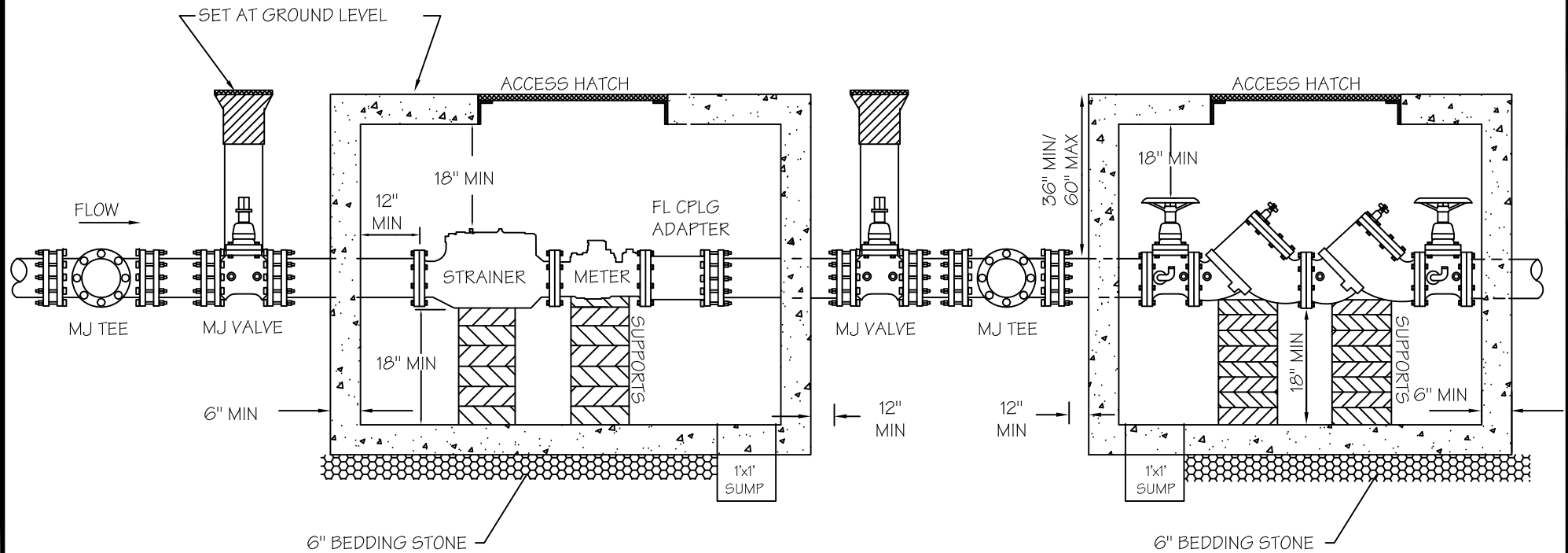
- HYDRANT - AFC (B-84-B-5), AVK (NOSTALGIC-2780), CLOW (MEDALLION), MUELLER (SUPER CENTURION 250 A423)
- VALVE - AFC (2500), AVK (25 OR 45), CLOW (2639-F6100 OR 2640-F6100), MUELLER (A2360-23), US PIPE VALVE & HYDRANT (USP1)



NOTES

1. ALL MJ FITTINGS SHALL BE RESTRAINED WITH RESTRAINING FLANGES
2. A MINIMUM THICKNESS OF 6" BEDDING STONE OR A SOLID CONCRETE BLOCK IS REQUIRED UNDER ALL FITTINGS, VALVES AND HYDRANTS

8/25/17



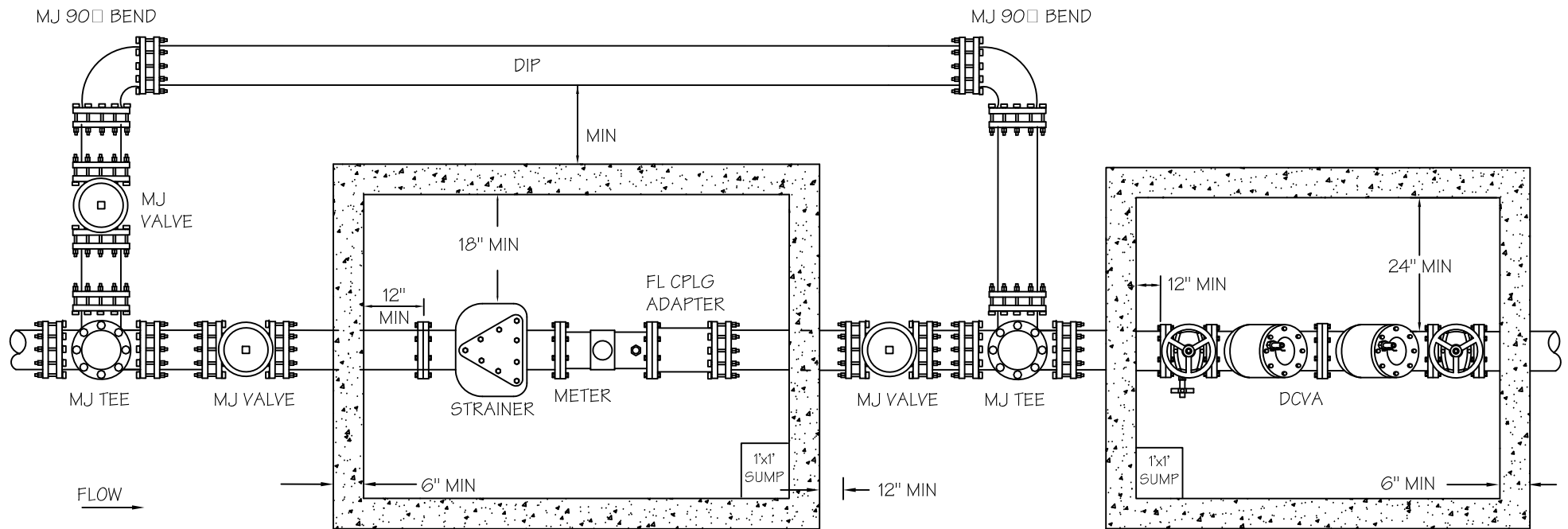
NOTES:

1. GROUT PITS INSIDE AND OUT (CONCRETE BLOCKS SHALL BE FILLED WITH CONCRETE)
2. ALL FITTINGS, VALVES, METER AND BACKFLOW PREVENTION SHALL BE RESTRAINED WITH RESTRAINING FLANGES.
3. CONTRACTOR IS RESPONSIBLE FOR ALL WORK. (INCLUDING THE TAP)
4. SCPW TO ORDER METER AND BACKFLOW PREVENTER UPON PAYMENT, POSSIBLE 120 DAYS TO DELIVERY
5. CONTRACTOR TO PICK UP METER AND BACKFLOW FROM SCPW MAINTENANCE SHOP
6. ACCESS TO BE BILCO 4' X 4' ALUMINUM HATCH (FOR TRAFFIC LOADS USE REINFORCED CONCRETE AND MANHOLE RING AND COVERS)
7. DO NOT PLACE SUPPORTS UNDER FLANGES
8. ALL PIPING ASSOCIATED WITH THE ASSEMBLIES SHOWN SHALL BE D.I.P.
9. ALL FITTINGS LOCATED INSIDE THE PIT SHALL BE FLANGED, WHILE THOSE OUTSIDE THE PIT SHALL BE MJ
10. SCPW RESERVES THE RIGHT TO REQUIRE PITS TO BE COATED ON THE INTERIOR WITH RAVEN 405 OR SPECTRASHIELD
11. FLANGE COUPLING ADAPTER TO BE ROMAC #DJ405.

8/25/17

SUMMERVILLE COMMISSIONERS OF PUBLIC WORKS
ENGINEERING DIVISION

TYPICAL LARGE METER AND BACKFLOW PIT
SECTION VIEW



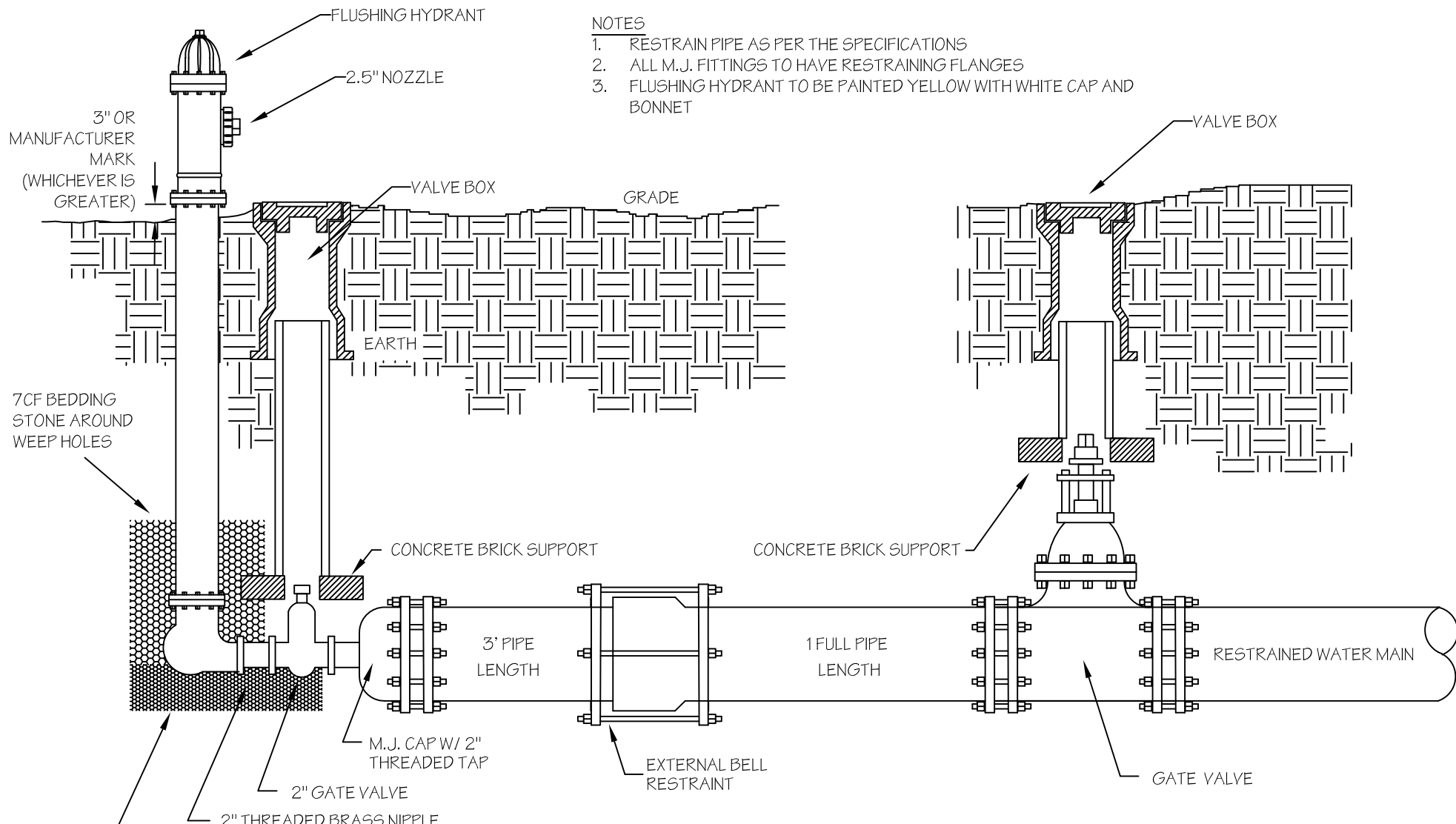
NOTES:

1. GROUT PITS INSIDE AND OUT (CONCRETE BLOCKS SHALL BE FILLED WITH CONCRETE)
2. ALL FITTINGS, VALVES, METER AND BACKFLOW PREVENTER SHALL BE RESTRAINED WITH RESTRAINING FLANGES
3. CONTRACTOR IS RESPONSIBLE FOR ALL WORK. (INCLUDING THE TAP)
4. SCPW TO ORDER METER AND BACKFLOW PREVENTER UPON PAYMENT, POSSIBLE 120 DAYS TO DELIVERY
5. CONTRACTOR TO PICK UP METER AND BACKFLOW FROM SCPW MAINTENANCE SHOP
6. ACCESS TO BE BILCO 4' X 4' ALUMINUM HATCH (FOR TRAFFIC LOADS USE REINFORCED CONCRETE AND MANHOLE RING AND COVERS)
7. DO NOT PLACE SUPPORTS UNDER FLANGES
8. ALL PIPING ASSOCIATED WITH THE ASSEMBLIES SHOWN SHALL BE D.I.P.
9. ALL FITTINGS LOCATED INSIDE THE PIT SHALL BE FLANGED, WHILE THOSE OUTSIDE THE PIT SHALL BE MJ
10. SCPW RESERVES THE RIGHT TO REQUIRE PITS TO BE COATED ON THE INTERIOR WITH RAVEN 405 OR SPECTRASHIELD
11. FLANGE COUPLING ADAPTER TO BE ROMAC #DJ405..

8/25/17

SUMMerville COMMISSIONERS OF PUBLIC WORKS
ENGINEERING DIVISION

TYPICAL LARGE METER AND BACKFLOW PIT
PLAN VIEW



NOTES

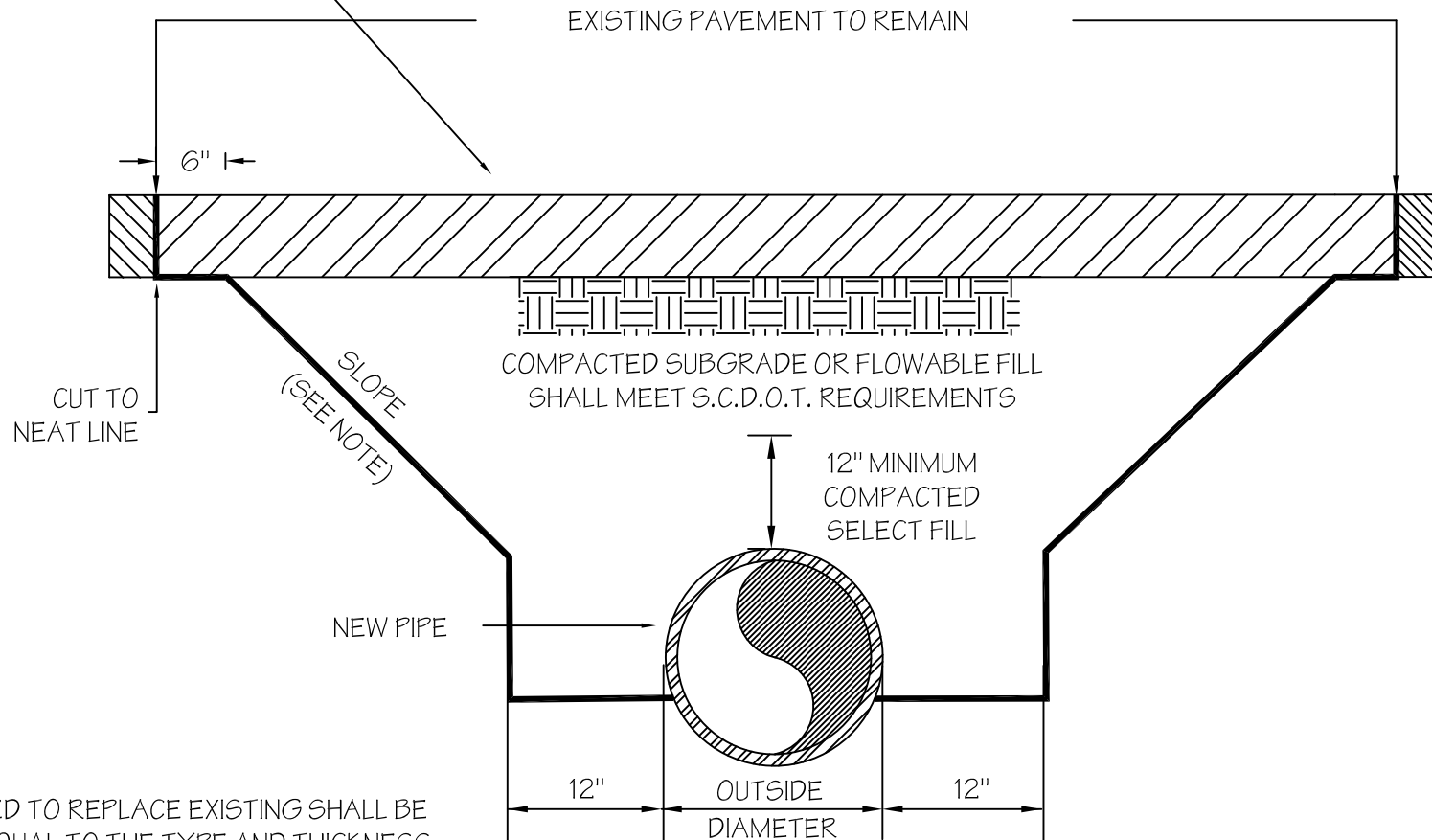
1. RESTRAIN PIPE AS PER THE SPECIFICATIONS
2. ALL M.J. FITTINGS TO HAVE RESTRAINING FLANGES
3. FLUSHING HYDRANT TO BE PAINTED YELLOW WITH WHITE CAP AND BONNET

PREFERRED MATERIALS

- FLUSHING HYDRANT - KUPFERLE (ECLIPSE 2), MUELLER (A411)
- EXTERNAL BELL RESTRAINT - EBAA IRON (1500-0054), FORD (1390-X), ROMAC (611) OR SMITH BLAIR (165)

2/14/11

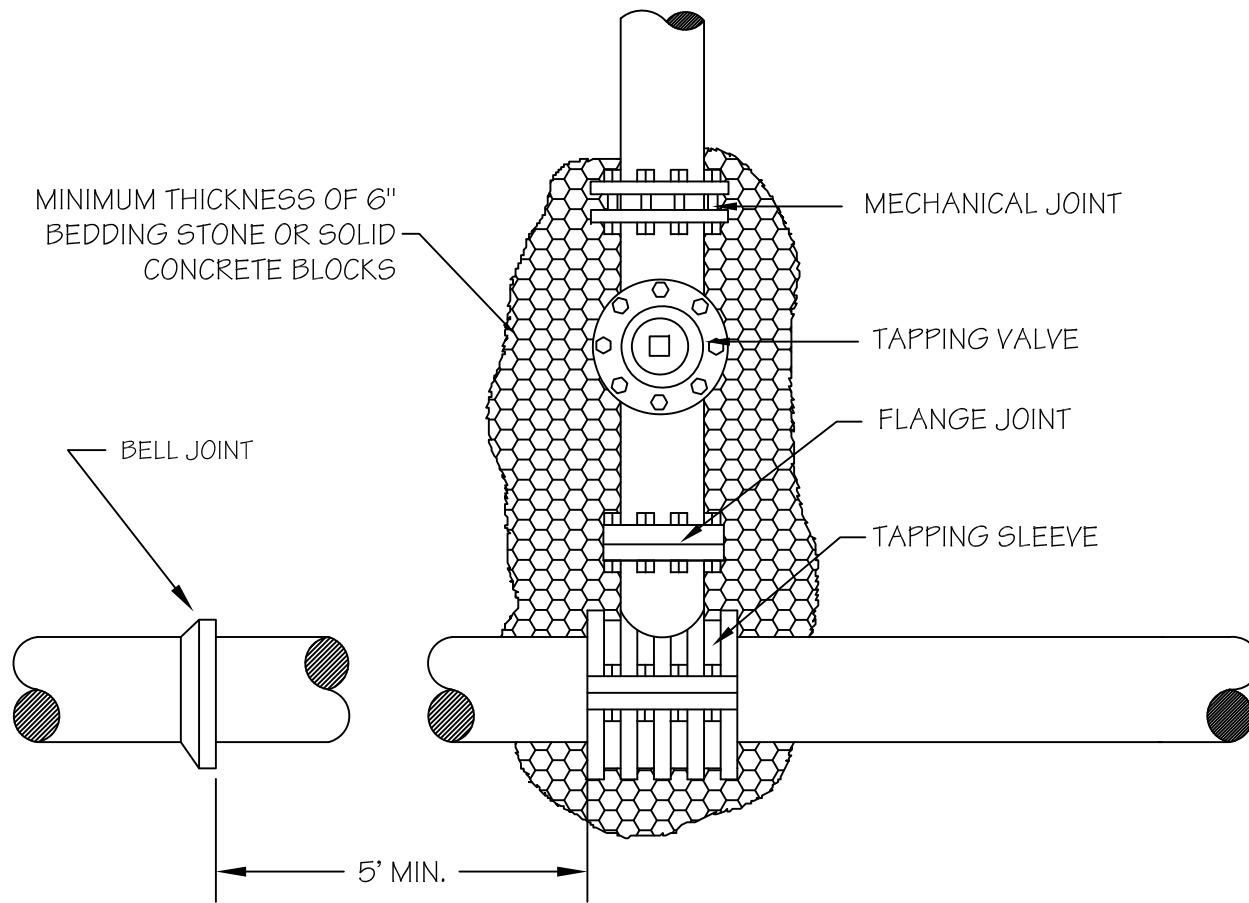
EXISTING CONCRETE OR PAVEMENT TO BE SAW CUT AND REMOVED 6" BEYOND EACH SIDE OF THE EXCAVATION. IT SHALL BE REPLACED WITH A MINIMUM OF 3" ASPHALT OR 6" OF 3000 PSI CONCRETE



NOTES:

1. PAVEMENT USED TO REPLACE EXISTING SHALL BE SIMILAR AND EQUAL TO THE TYPE AND THICKNESS REMOVED UNLESS APPROVED BY THE ENGINEER
2. WHERE THE DEPTH EXCEEDS 4' AND SHORING AND BRACING ARE NOT USED, EXCAVATION SIDE SLOPES SHALL MEET ALL OSHA GUIDELINES

2/14/11



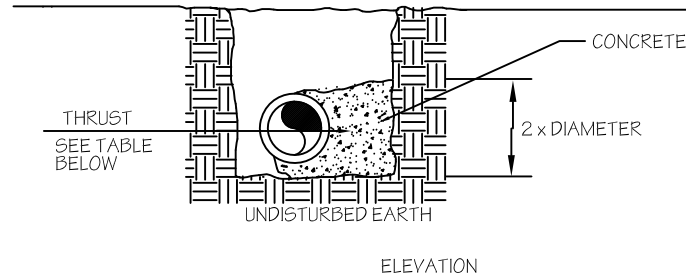
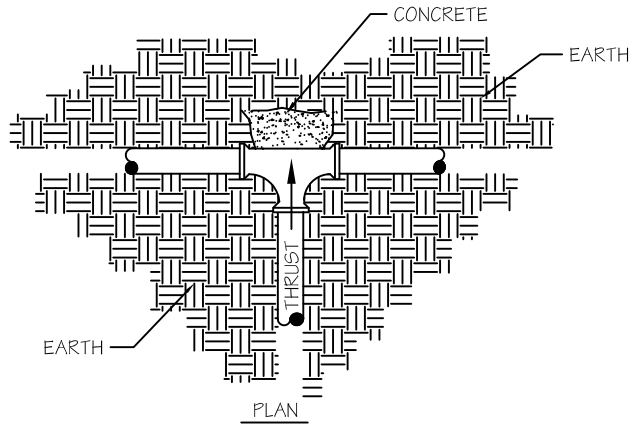
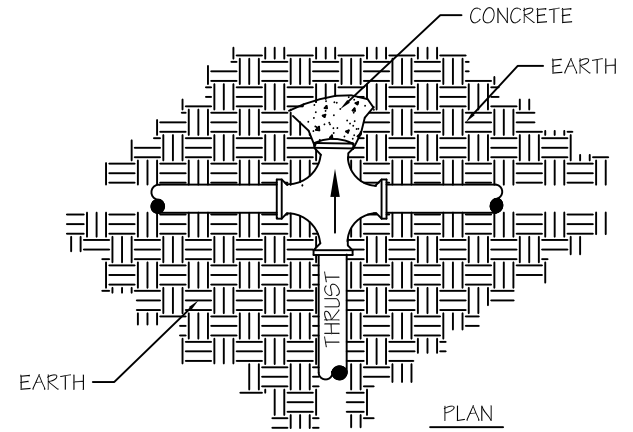
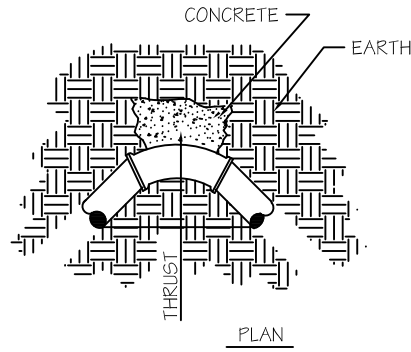
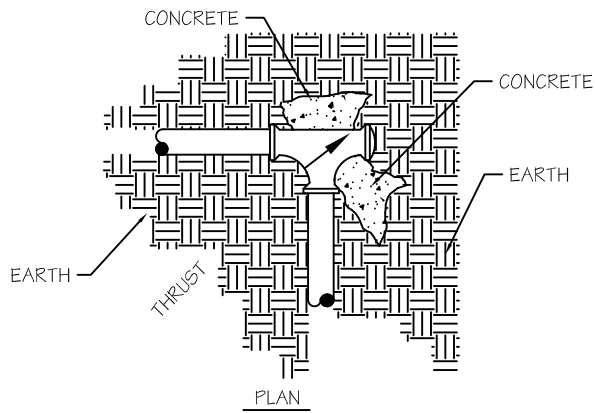
NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING THE TAPPING SLEEVE AND VALVE. SCPW WILL ACTUALLY MAKE THE TAP, AT A POTENTIAL COST TO THE CONTRACTOR
- RESTRAIN THE TAPPING SLEEVE AND VALVE AS REQUIRED FOR A MJ TEE

PREFERRED MATERIALS

- SLEEVE - CASCADE (CST-EX), FORD (FTSS), JCM (432), MUELLER (H304SS), ROMAC (SST-III), SMITH BLAIR (665)
- VALVE - AFC (2500), AVK (25 OR 45), CLOW (2639-F6100 OR 2640-F6100), MUELLER (A2360-23), US PIPE VALVE & HYDRANT (T-USP1)

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THRUST TABULATION (KIP)					
BEND PIPE DIA. (IN.)		22-1/2	45	90	60 BEND
2-4	0.7	1.3	2.5	4.7	3.3
6	1.5	2.9	5.7	10.6	7.5
8	2.9	5.0	9.8	18.2	12.9
10	3.8	7.5	14.8	27.4	19.3
12	5.4	10.7	20.9	38.7	27.4
14	7.4	14.6	28.6	52.8	37.4
16	9.3	18.5	36.4	67.2	47.5

- CONCRETE THRUST BLOCKING IS CONSIDERED A SECONDARY OPTION TO RESTRAINED JOINT PIPE

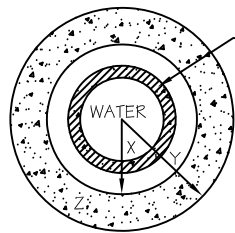
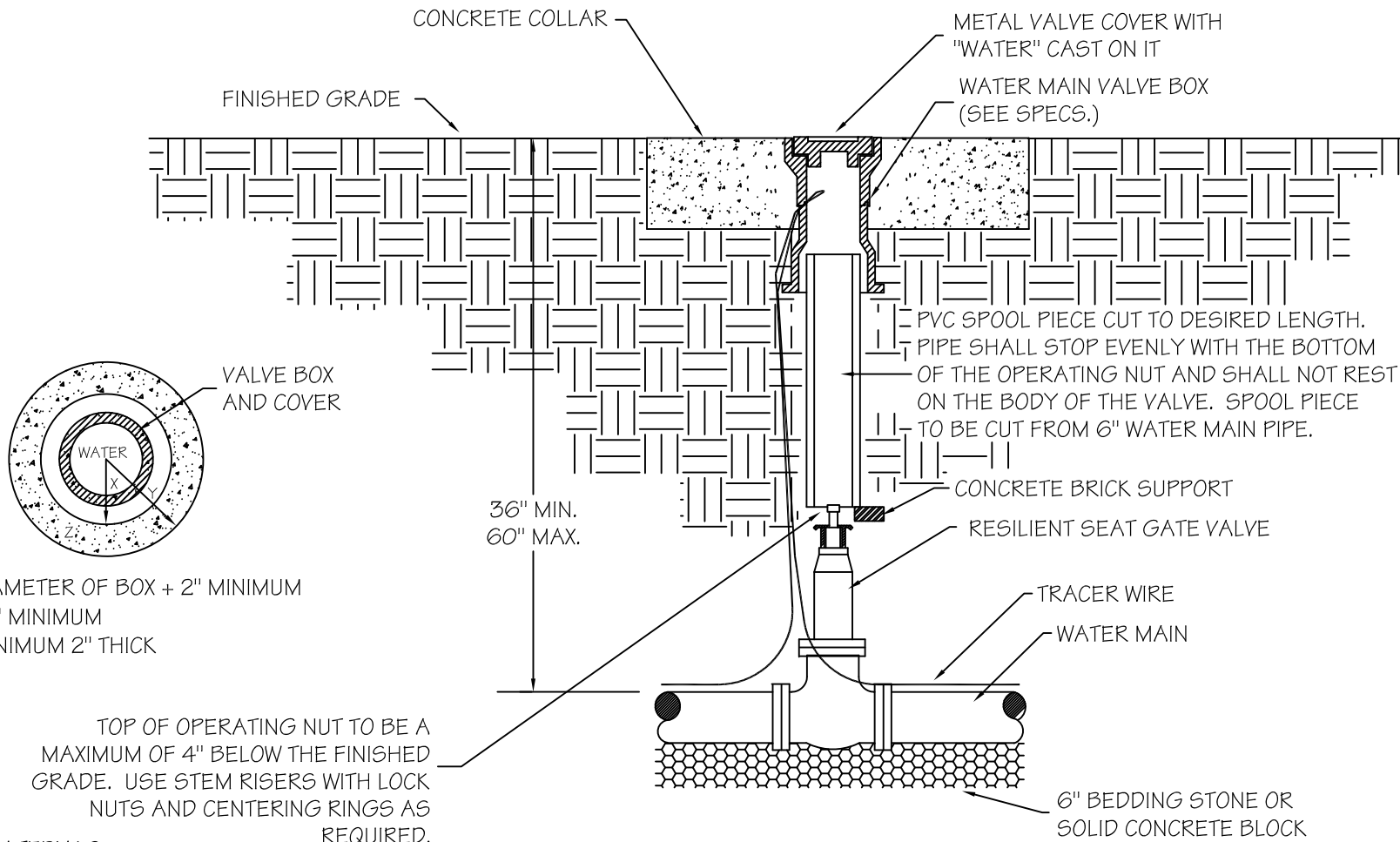
NOTE:

1. THRUST BLOCKING SHALL BE 3,000 PSI CONCRETE PROPERLY PLACED, TO TRANSMIT FORCES TO UNDISTURBED EARTH AS INDICATED
2. ALL MECHANICAL JOINT BENDS TO HAVE RESTRAINING FLANGES
3. ALL FITTINGS IN CONTACT WITH CONCRETE MUST BE WRAPPED WITH POLYETHYLENE
4. BLOCKING SHALL BE FORMED WITH 3/4" PLYWOOD
5. ALL FITTINGS TO BE INSTALLED ON 6" STONE OR A SOLID CONCRETE BLOCK
6. ALL BENDS TO BE MARKED WITH CAPPED 2" PVC PIPE UNTIL AS-BUILTS SURVEYS ARE COMPLETE
7. MIN. OF 10' OF JOINT FREE PIPE LENGTH REQUIRED ON EACH SIDE OF FITTINGS, UNLESS OTHER FITTINGS ARE WITHIN 10'

$$\text{END AREA SQ. FT.} = \frac{\text{THRUST} \times 1000}{\text{BEARING} \times 2000}$$

SOIL TYPE	MIN. SAFE BEARING TONS/FT.
ROCK, HARD THICK LAYERS	200
ROCK, EQUAL GOOD MASONRY	25
ROCK, EQUAL BEST BRICK	15
ROCK, EQUAL POOR BRICK	5
CLAY, ALWAYS DRY	4
CLAY, FAIRLY DRY	2
CLAY, SOFT	1
GRAVEL, COARSE SAND, FIRM	8
SAND, COMPACT, FIRM	4
SAND, CLEAN, DRY	2
QUICKSAND, ALLUVIAL SOIL	1/2

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X = DIAMETER OF BOX + 2" MINIMUM
 Y = 16" MINIMUM
 Z = MINIMUM 2" THICK

TOP OF OPERATING NUT TO BE A MAXIMUM OF 4" BELOW THE FINISHED GRADE. USE STEM RIGERS WITH LOCK NUTS AND CENTERING RINGS AS REQUIRED.

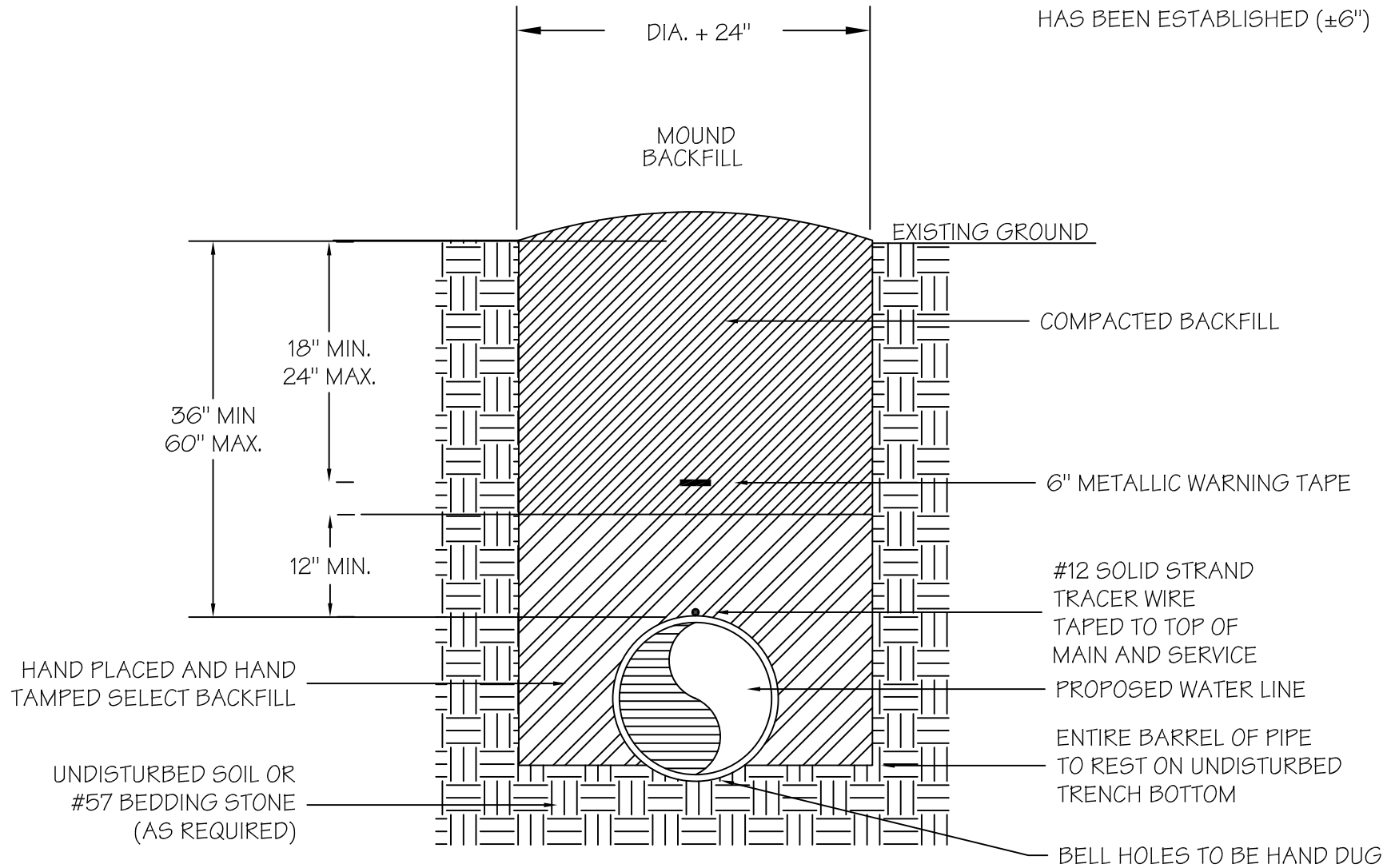
PREFERRED MATERIALS

- VALVE - AFC (2500), AVK (25 OR 45), CLOW (2639-F6100 OR 2640-F6100), MUELLER (A2360-23), US PIPE VALVE & HYDRANT (USP1)
- BUTTERFLY VALVE - CLOW (4500), CRISPIN K-FLO (500 OR 47), MUELLER (LINESEAL XP11 5227-20), PRATT (HP 255II), VALMATIC (2000)
- BOX - TYLER (6850, EAST JORDAN (8550)

TRACER WIRE SHALL NOT BE INSTALLED INSIDE THE PVC SPOOL PIECE. IT SHALL ENTER AND EXIT THE VALVE BOX WHERE THE TOP SECTION OF THE BOX SCREWS TOGETHER WITH THE BOTTOM SECTION.

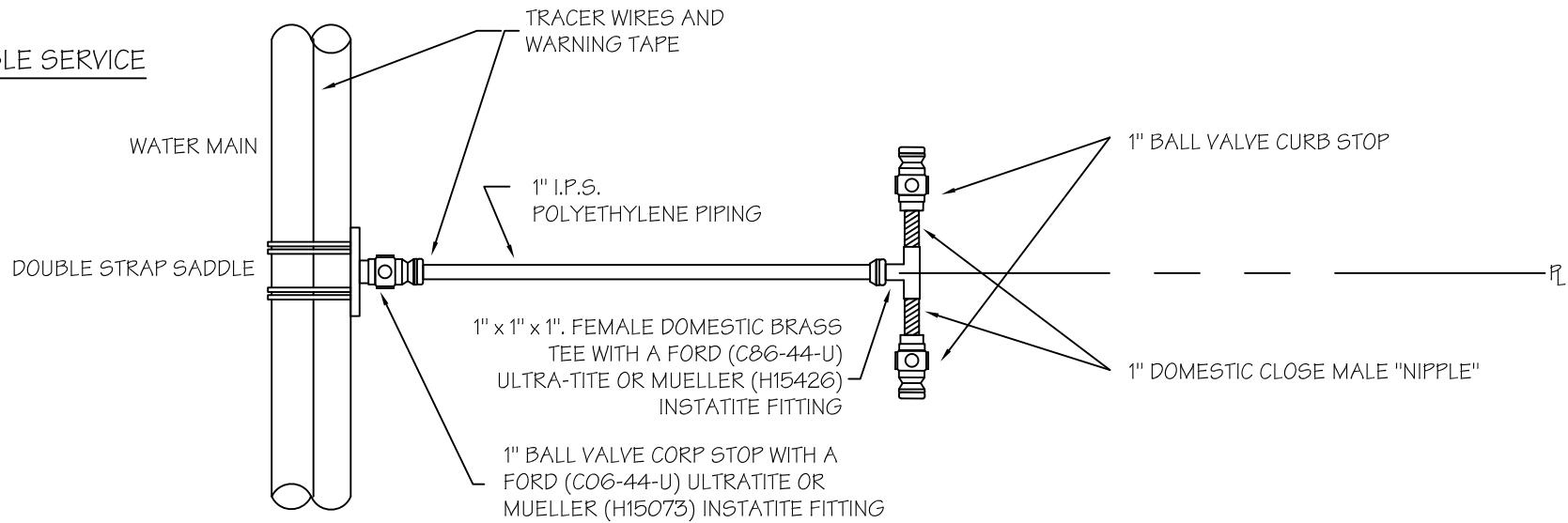
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NOTE:
 WATER MAIN CONSTRUCTION
 SHALL NOT BE INITIATED
 UNTIL THE FINAL SITE GRADE
 HAS BEEN ESTABLISHED ($\pm 6''$)



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DOUBLE SERVICE



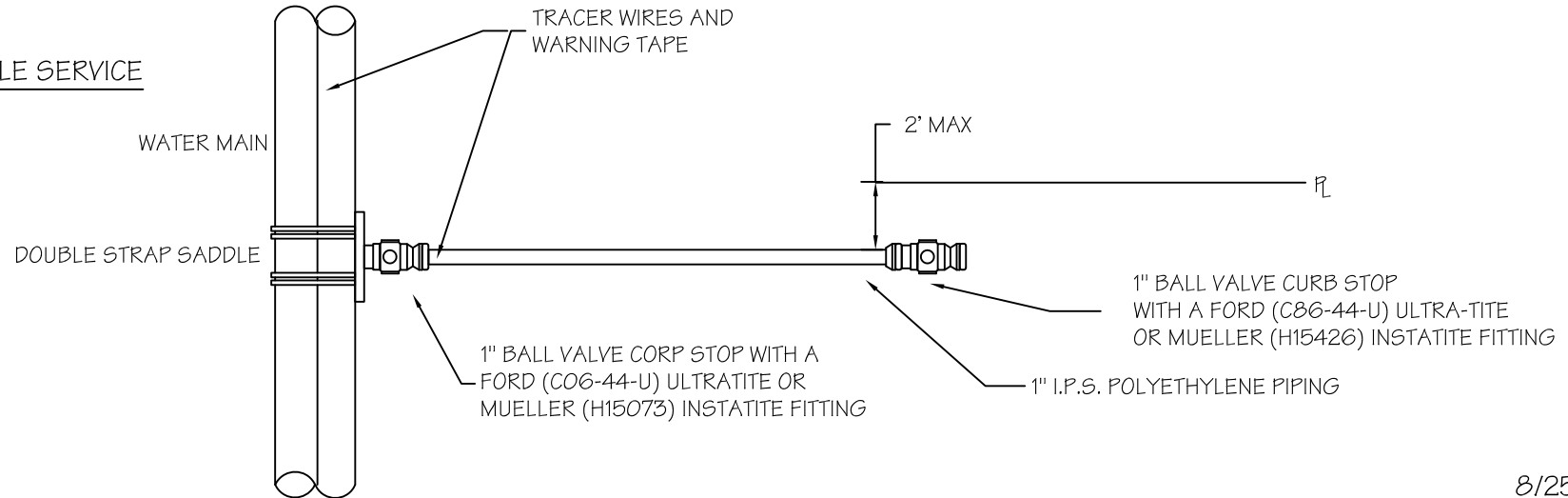
NOTES

1. ALL SERVICES 1" MINIMUM
2. ALL SERVICES UNDER ROADS ARE TO BE INSTALLED IN PVC CASING
3. 12 GAUGE TRACER WIRE SHALL BE TAPED TO ALL PVC MAINS AND SERVICES
4. METALLIC WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC MAINS AND SERVICES

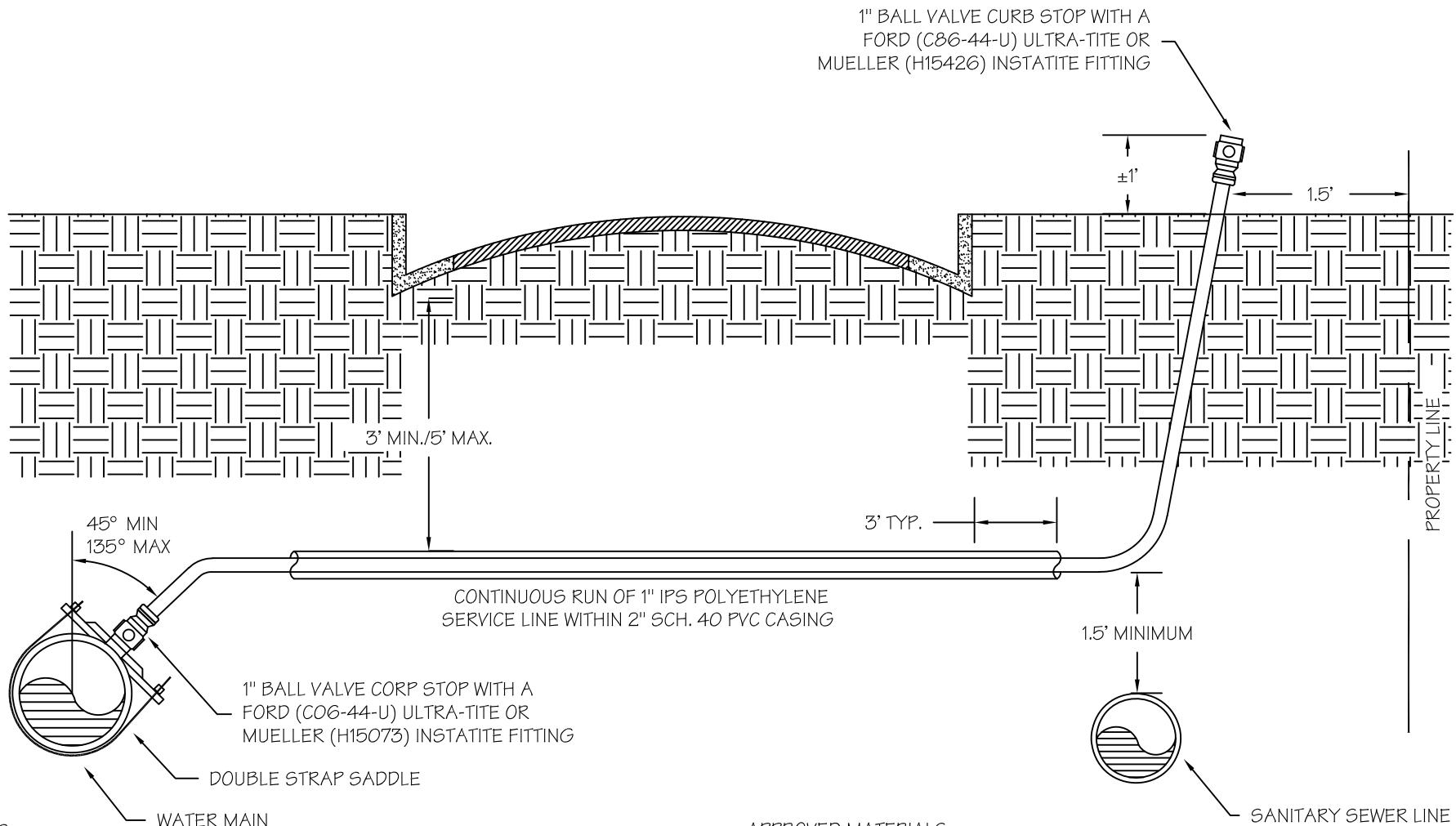
APPROVED MATERIALS

- SADDLE - CASCADE (CN2S, CS12, CS22), JCM (406), MUELLER, (DR2S), ROMAC(202NS)
- CORPORATION - FORD (FB600-4-LN), MCDONALD (4701BL), MUELLER (B25005)
- CURB STOP - FORD (B11444W), MCDONALD (6101W), MUELLER (20200 FULL PORT)
- BRASS - DOMESTIC MERIT, LEE, MATCO NORCA
- PE PIPE - CHARTER (BLUE ICE), ENDOT (ENDOPURE), SILVERLINE (ULTRA-PURE)

SINGLE SERVICE



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NOTES

1. 12 GAUGE TRACER WIRE SHALL BE TAPED TO ALL PVC MAINS AND SERVICES
2. METALLIC WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC MAINS AND SERVICES

APPROVED MATERIALS

- SADDLE - CASCADE (CN2S, CS12, CS22), JCM (406), MUELLER, (DR2S), ROMAC(202NS)
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