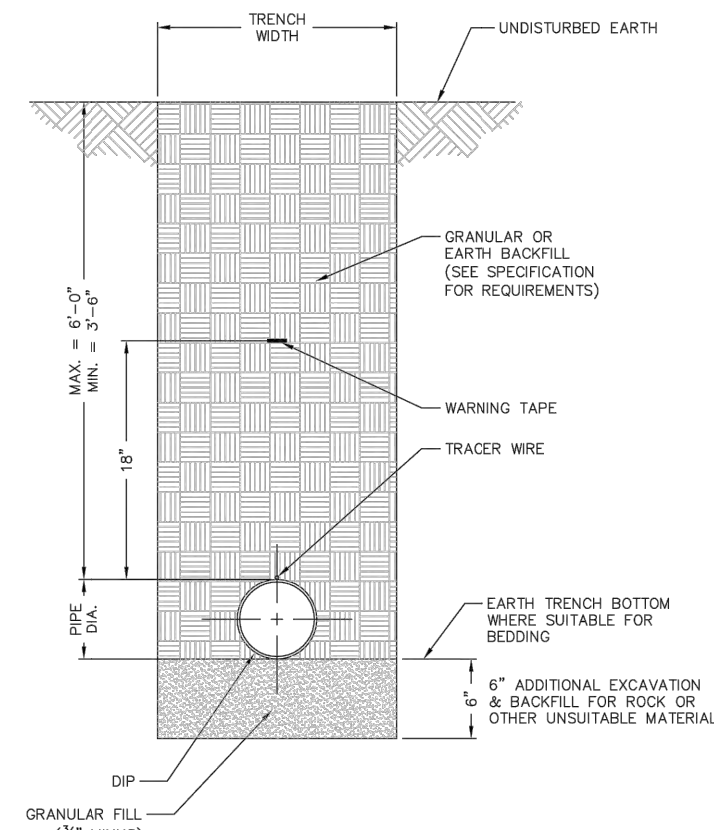


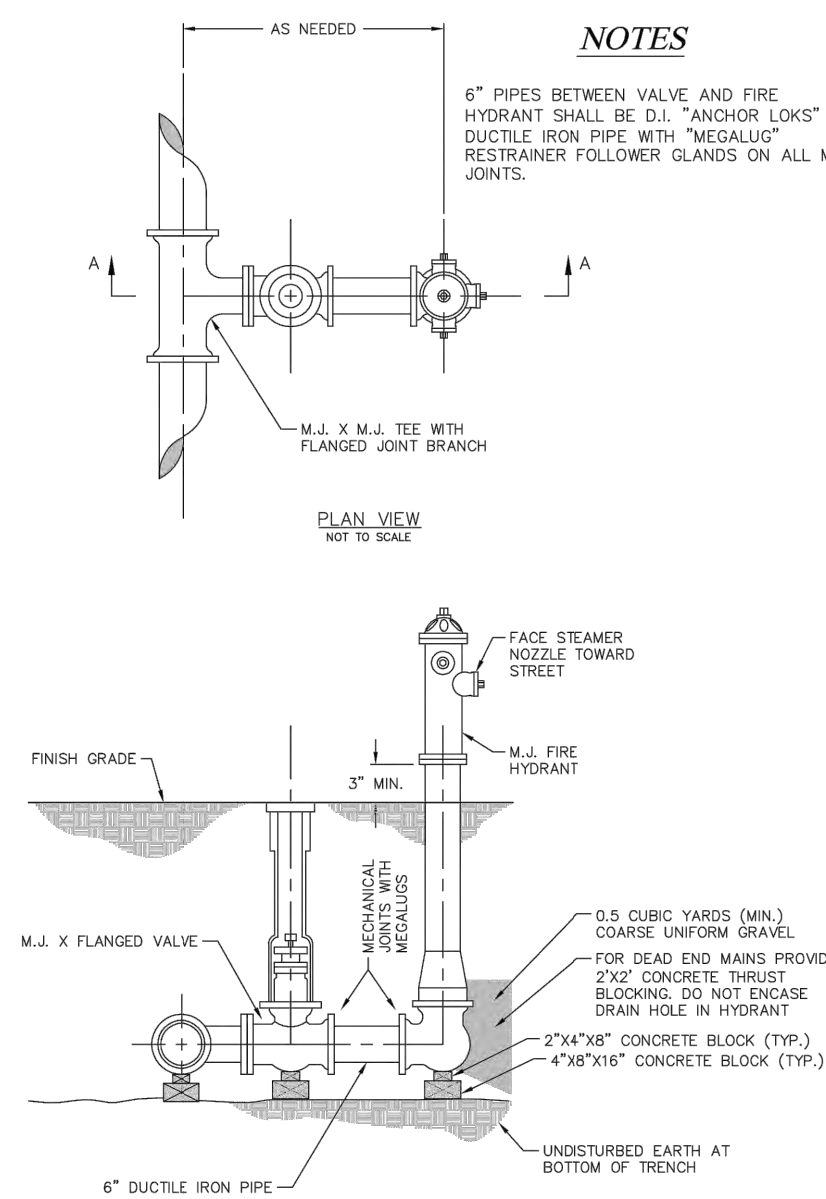
NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.

TYPICAL TRENCH SECTION FOR PVC PIPE
DETAIL "A"
PAGE 1 OF 2

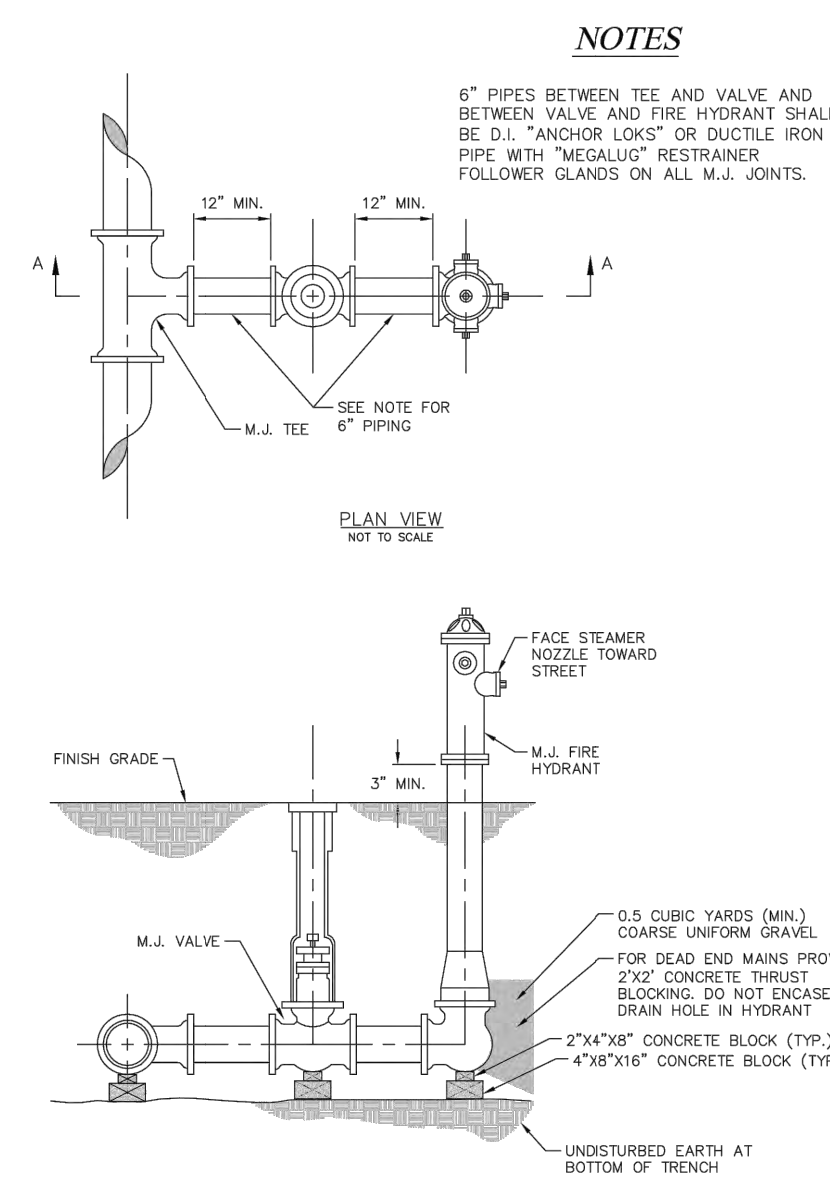


NOTES
1) POLYWRAP REQUIRED FOR DUCTILE IRON PIPE
2) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.

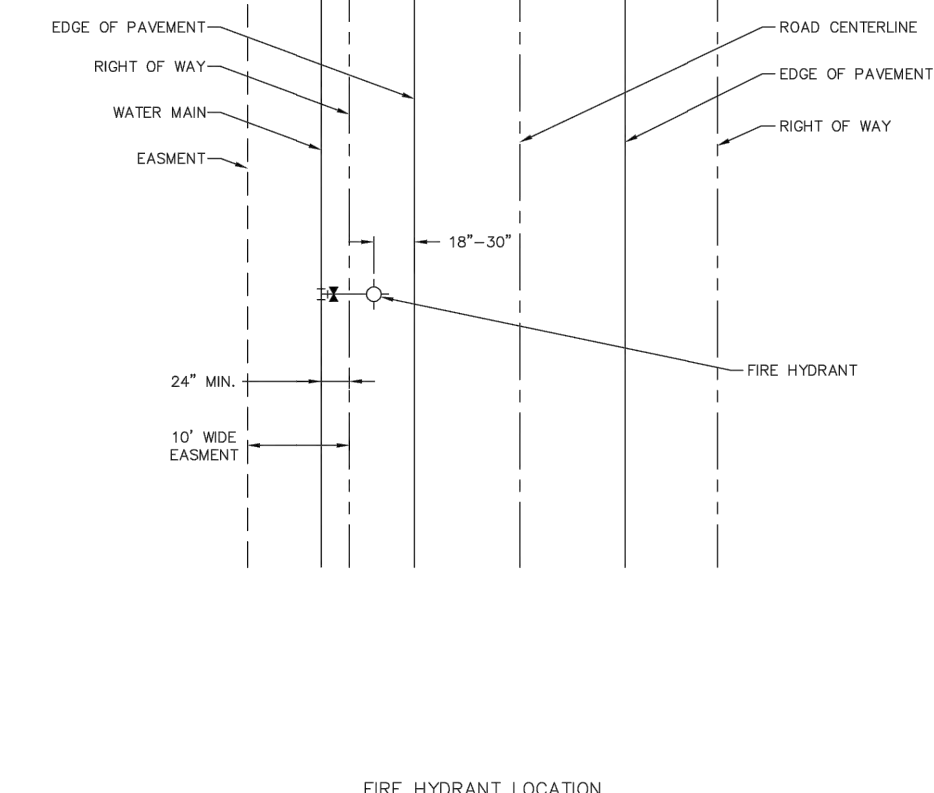
TYPICAL TRENCH SECTION FOR DUCTILE IRON PIPE
DETAIL "A"
PAGE 2 OF 2



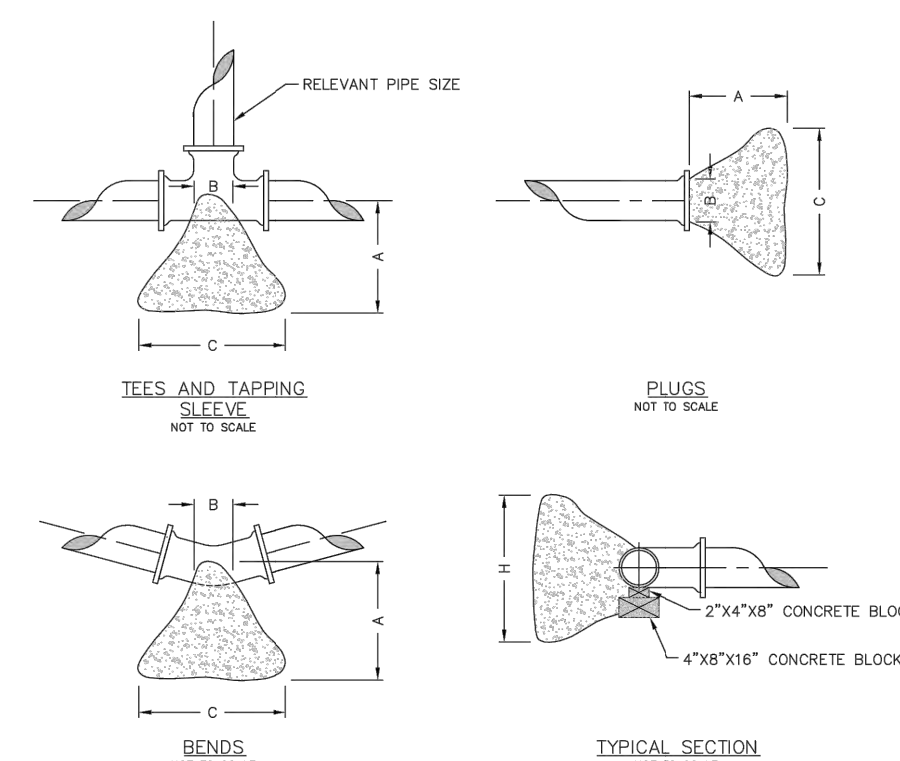
FIRE HYDRANT DETAIL
DETAIL "B"
PAGE 1 OF 3



FIRE HYDRANT DETAIL
DETAIL "B"
PAGE 2 OF 3



FIRE HYDRANT LOCATION
NOT TO SCALE

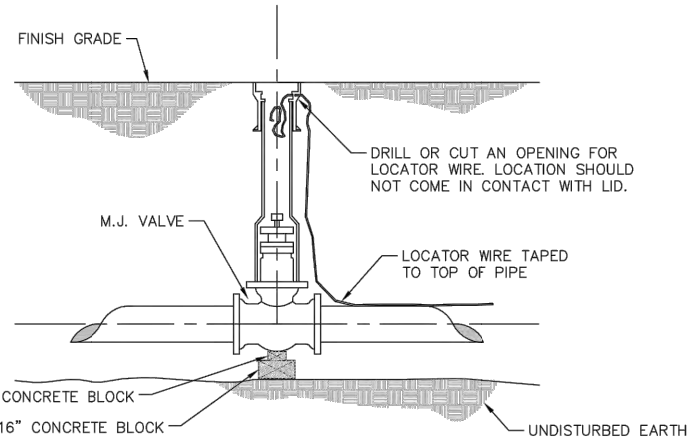


THRUST BLOCK DIMENSIONS - INCHES

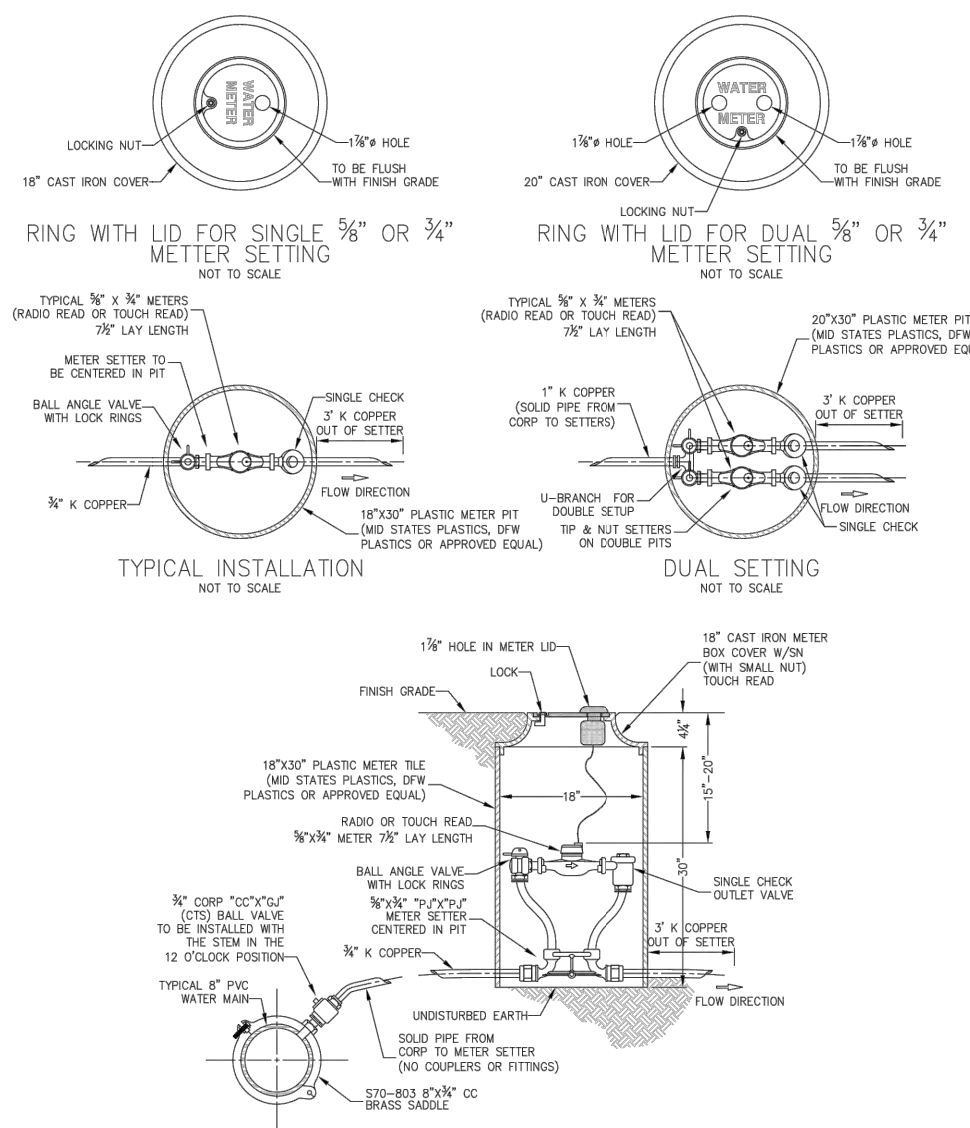
| PIPE DIA. | ALL FTGS. | | | TEE PLUG TAPPING | | | 90 DEGREE BEND | | | 45 DEGREE BEND | | | 22-1/2 BEND | | | 11-1/4 BEND | | |
|-----------|-----------|----|----|------------------|----|----|----------------|----|----|----------------|----|----|-------------|----|----|-------------|--|--|
| | A | B | C | H | C | H | C | H | C | H | C | H | C | H | C | H | | |
| 4 | 14 | 4 | 24 | 12 | 26 | 15 | 18 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | |
| 6 | 16 | 6 | 36 | 18 | 36 | 24 | 30 | 18 | 24 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | |
| 8 | 20 | 8 | 36 | 30 | 42 | 36 | 36 | 24 | 24 | 18 | 18 | 12 | 12 | 12 | 12 | 12 | | |
| 10 | 20 | 10 | 48 | 36 | 66 | 36 | 36 | 28 | 24 | 18 | 18 | 12 | 12 | 12 | 12 | 12 | | |
| 12 | 24 | 12 | 66 | 36 | 82 | 42 | 52 | 36 | 40 | 24 | 28 | 18 | 18 | 12 | 12 | 12 | | |

NOTE
FOR FITTINGS LARGER THAN 12", SPECIAL RESTRAINT DESIGNS ARE REQUIRED.

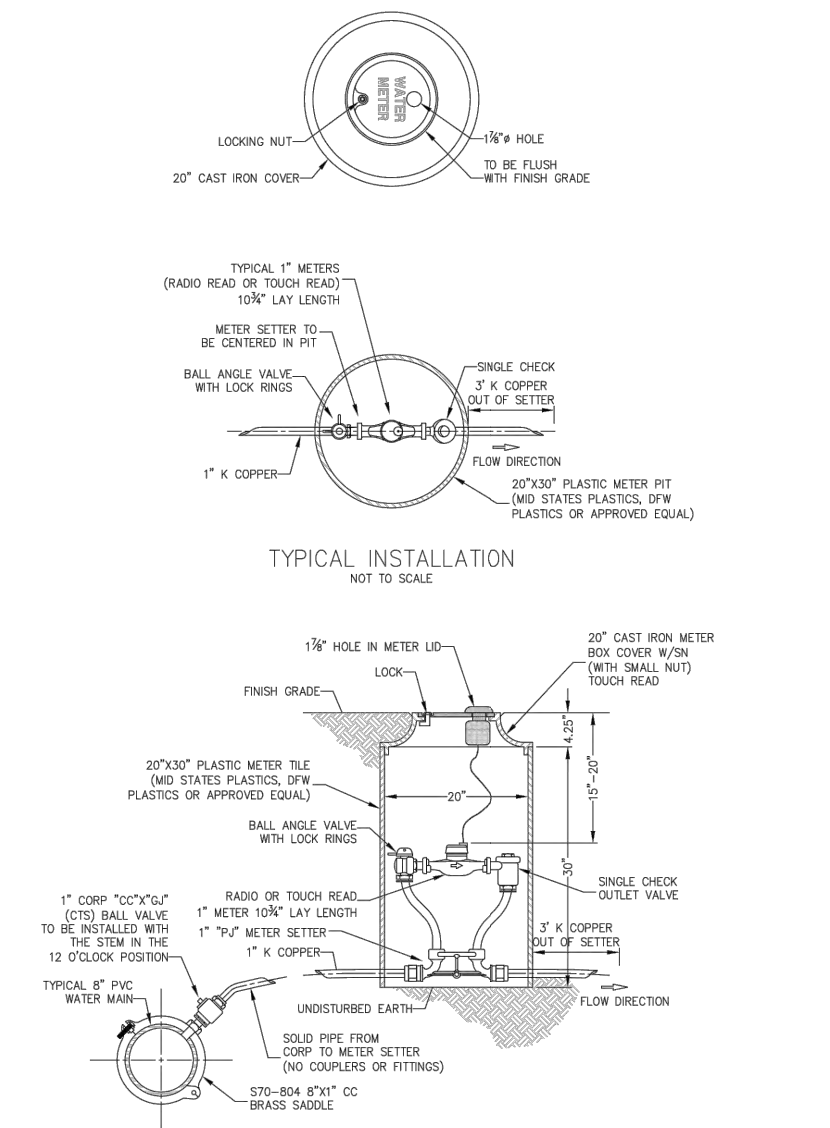
HORIZONTAL THRUST BLOCKING
DETAIL "C"



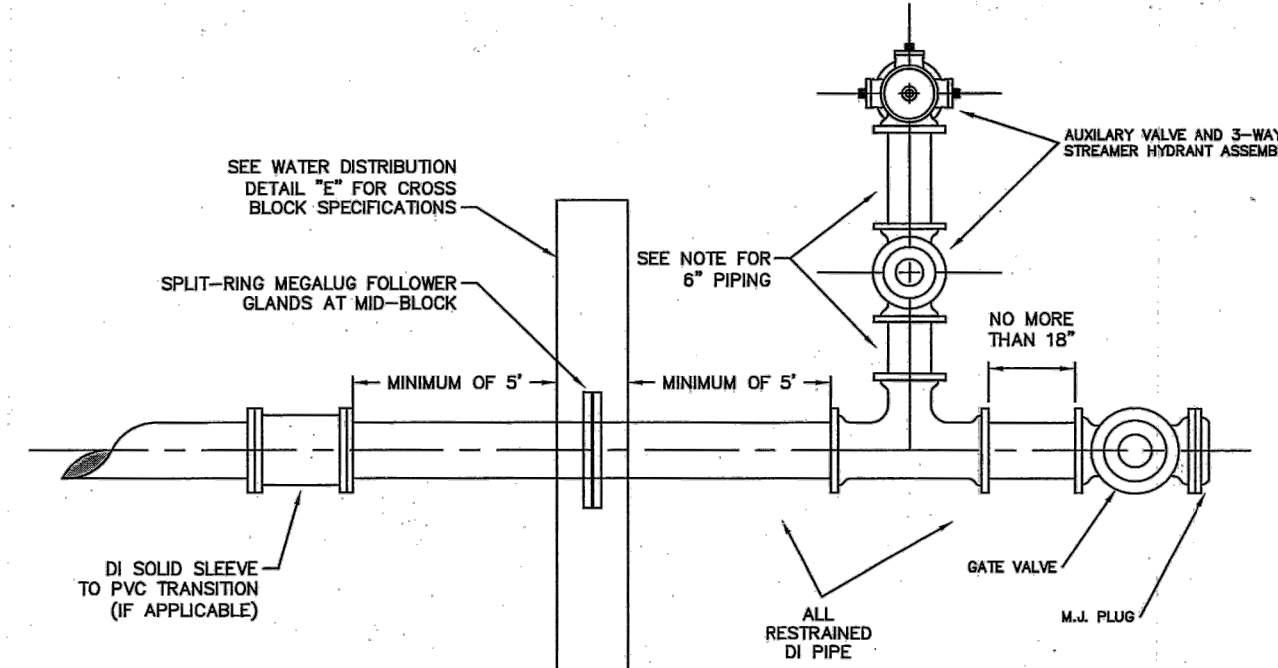
GATE VALVE DETAIL
DETAIL "D"



TYPICAL 3/4" RESIDENTIAL WATER SERVICE
DETAIL "E"
APRIL 20, 2005

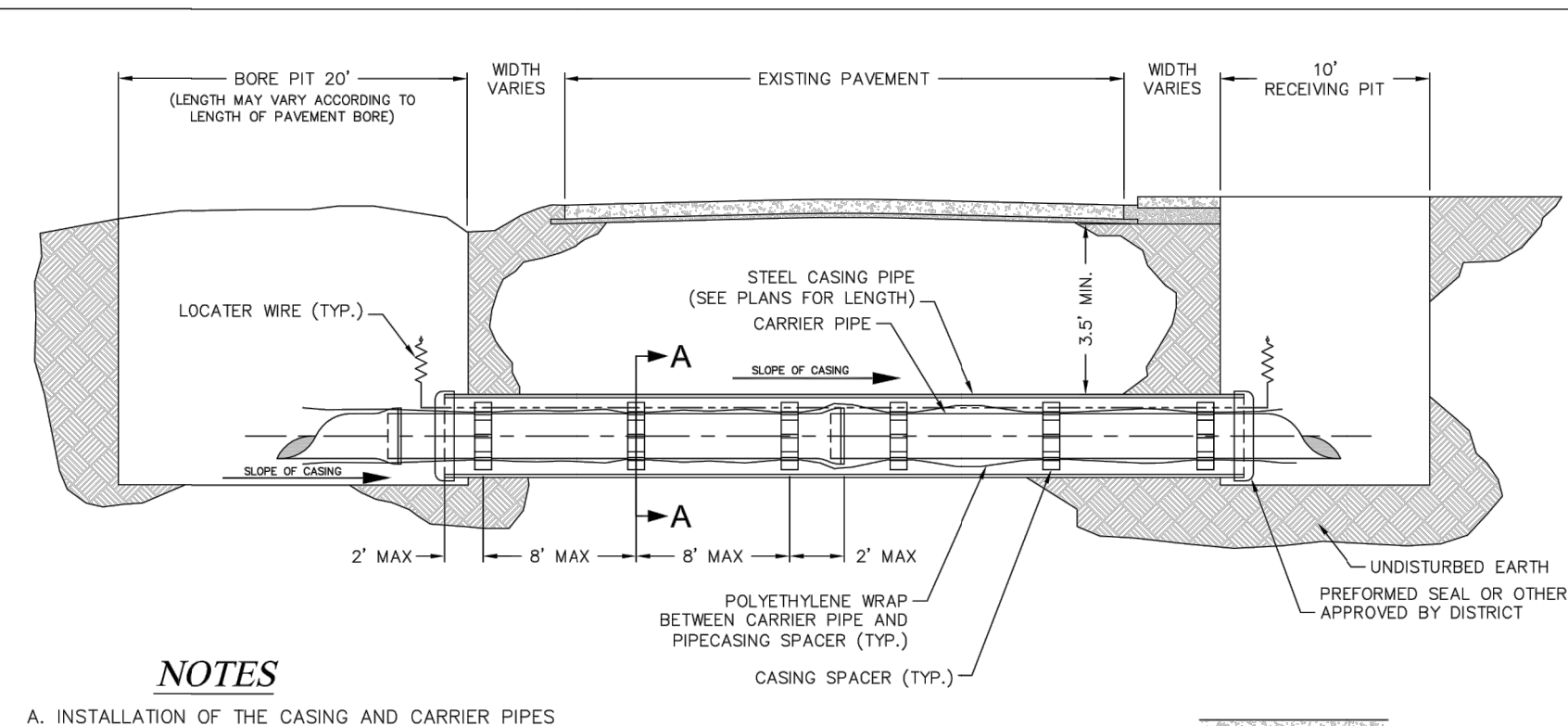


TYPICAL 1" RESIDENTIAL WATER SERVICE
DETAIL "E"
APRIL 20, 2005



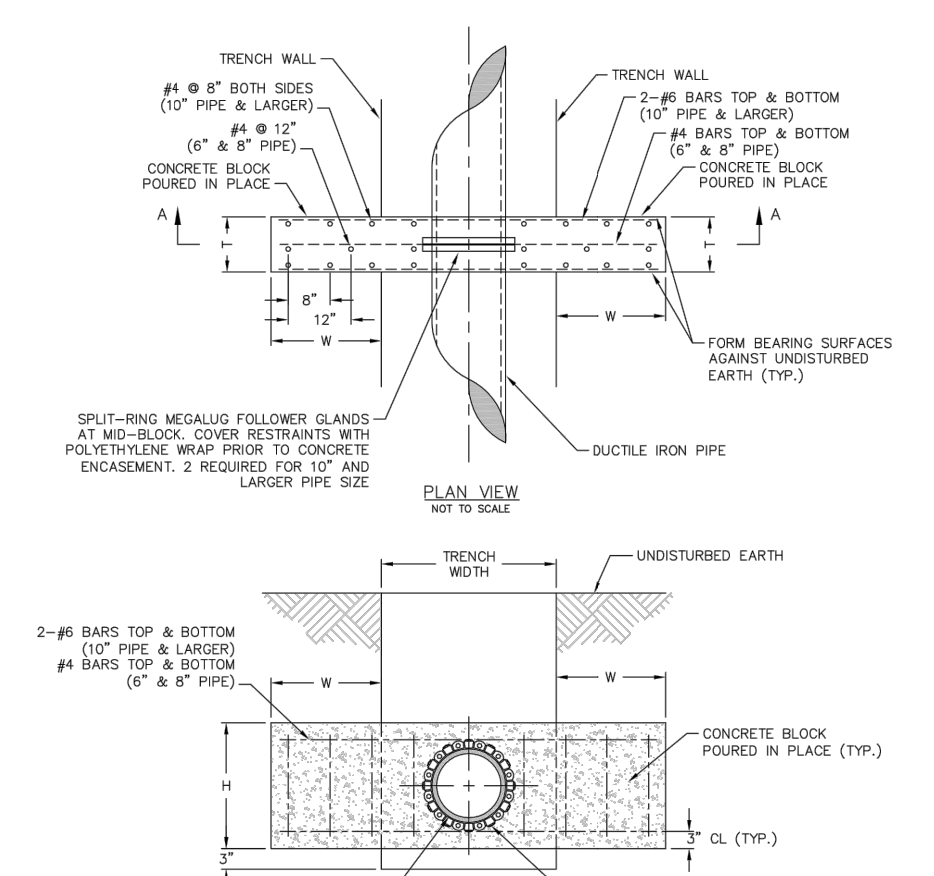
WATER MAIN TERMINATION
DETAIL "E"

NOTES:
6" PIPES BETWEEN TEE AND VALVE AND BETWEEN VALVE AND FIRE HYDRANT SHALL BE D.I. "ANCHOR LOKS" OR DUCTILE IRON PIPE WITH "MEGALOG" RESTRAINER FOLLOWER GLANDS ON ALL M.J. JOINTS.



NOTES
A. INSTALLATION OF THE CASING AND CARRIER PIPES SHALL MEET THE REQUIREMENTS OF PUBLIC WATER SUPPLY DISTRICT No. 2 OF ST. CHARLES COUNTY.
B. CASING PIPES FOR ROAD AND HIGHWAY CROSSINGS SHALL BE WELDED STEEL PIPE WITH A MINIMUM WALL THICKNESS OF 3/8" NON-COATED AND SHALL HAVE A MINIMUM DIAMETER OF 10" LARGER THAN THE NOMINAL SIZE OF THE CARRIER PIPE.
C. THE CARRIER PIPE SHALL BE RESTRAINED JOINT PIPE

TYPICAL WATER BORE AND ENCASEMENT
DETAIL "H"



CROSS BLOCK DIMENSIONS

| PIPE DIA. (") | MIN. BLOCK THICKNESS (") | MIN. BLOCK LENGTH (") | MIN. BLOCK WIDTH (") |
|---------------|--------------------------|-----------------------|----------------------|
| 4 | 3 | 36 | 12 |
| 6 | 3 | 36 | 12 |
| 8 | 3 | 36 | 12 |
| 10 | 3 | 36 | 12 |
| 12 | 3 | 36 | 12 |

NOTES
1) CONSTRUCT CROSS BLOCKS AT A MINIMUM OF 15' FROM CONNECTION POINT AND 5' FROM THE BELL END OF PIPE.
2) CROSS BLOCKS SHALL BE PRE-POURED PRIOR TO SHUTDOWN AND CONNECTIONS.

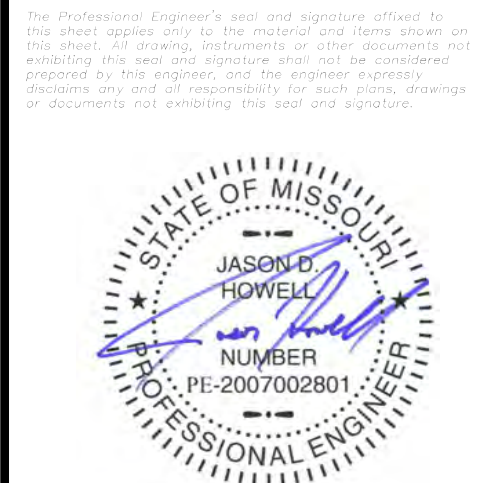
CROSS BLOCK
DETAIL "E"

ISSUE REMARKS/DATE

- INITIAL SUBMITTAL
- 9-23-20 Rev Duck Creek Cmmnt
- 20201001 Rev per City/Duckett/PWS#2
- 20201014 Rev per Duckett
- 20201020 Rev per City Comments
- 20201102 Rev per DCSD Comments
- 20201106 Rev per City Comments

PROJECT TITLE
AMBERLEIGH
OF FALLON, MISSOURI

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www.sterling-eng-sur.com
Corporate Certificate of Authority #001548



Date: 5-18-2021
Jason D Howell
License No. PE 2007002801
Professional Engineer

LOMBARDO HOMES OF ST. LOUIS, LLC
2299 TECHNOLOGY DRIVE, SUITE 150
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UTILITY DETAILS

P+Z No. 20-000028
City No. 20-003192
Date: May 18, 2021
Job No. 14-04-136

Page No.
5.7