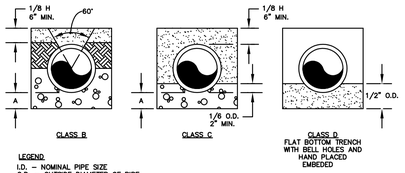


LEGEND
I.D. – NOMINAL PIPE SIZE
O.D. – OUTSIDE DIAMETER OF PIPE
H – COVER ABOVE TOP OF PIPE
A – EMBEDED BELOW PIPE (SEE TABLE)

TABLE OF EMBEDED DEPTHS BELOW PIPE

I.D.	A MIN. SOIL	A MIN. ROCK
27" & SMALLER	3"	6"

TAMPED BACK FILL
COMPACTED BACK FILL
GRANULAR BEDDING

GRANULAR BEDDING SHALL BE CRUSHED ROCK OR PEA GRAVEL WITH NOT LESS THAN 95% PASSING 1/2" (95% PASSING 3/4" FOR 30" AND LARGER PIPE) AND NOT LESS THAN 95% RETAINED ON A #4; TO BE PLACED IN NOT MORE THAN 6" LAYERS AND COMPACTED BY SLICING WITH A SHOVEL OR VIBRATING.

COMPACTED BACK FILL SHALL BE FINELY DIVIDED JOB EXCAVATED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL AND STONES, PLACED IN UNIFORM LAYERS NOT MORE THAN 6" THICK, COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. D698, OR GRADED AGGREGATE. GRANULAR BACK FILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF COMPACTED BACK FILL.

TAMPED BACK FILL SHALL BE FINELY DIVIDED JOB EXCAVATED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL AND STONES, HAND PLACED IN UNIFORM LAYERS NOT MORE THAN 8" THICK AND TAMPED AROUND CONDUIT PIPE. GRANULAR BACK FILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF TAMPED BACK FILL.

TRENCH BACK FILL SHALL BE AS REQUIRED IN THE "LAYING AND BACK FILL" SECTION OF THE DETAILED SPECIFICATIONS.

EMBEDED THE TYPE OF EMBEDED TO BE USED SHALL BE AS SPECIFIED IN THE PLANS AND SPECIFICATIONS.

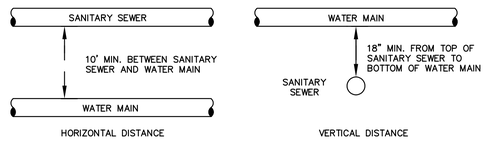
TRACER WIRE REQUIRED ON ALL WATER MAINS

WATER MAIN EMBEDED

NOT TO SCALE

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

WATER MAIN EMBEDED



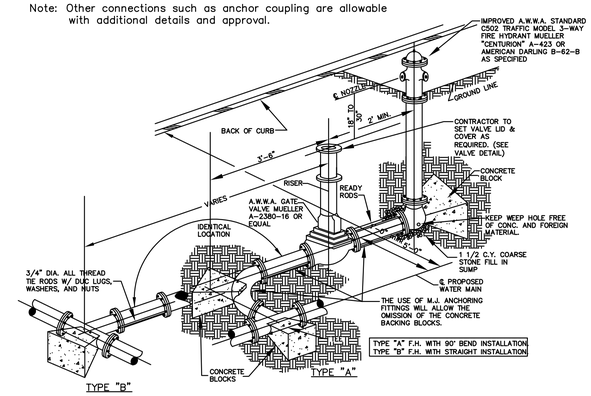
TYPICAL WATER AND SEWER SEPARATION

NOT TO SCALE

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

WATER AND SEWER SEPARATION DETAIL

Note: Other connections such as anchor coupling are allowable with additional details and approval.

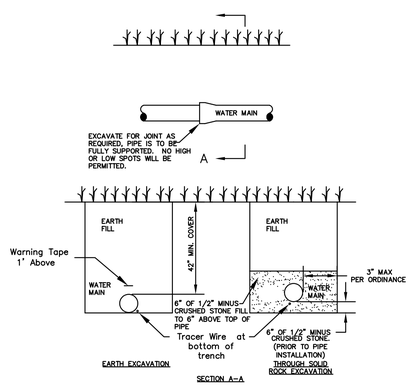


FIRE HYDRANT DETAIL

NOT TO SCALE

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

FIRE HYDRANT DETAILS



TYPICAL WATER MAIN INSTALLATION DETAILS

NOT TO SCALE

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

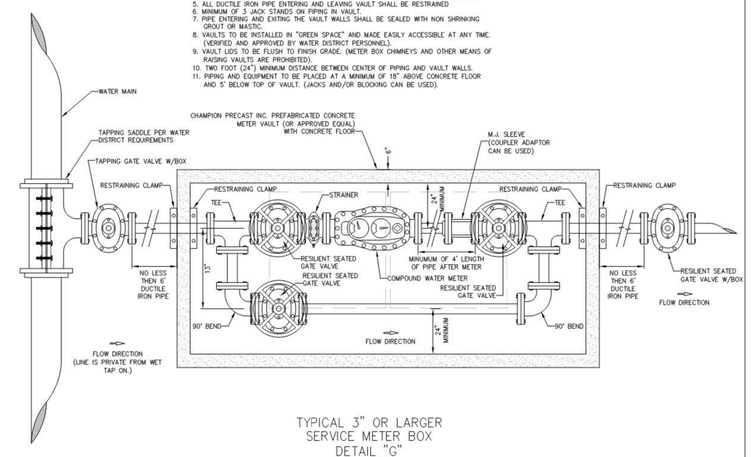
WATER MAIN INSTALLATION DETAIL

Ductile Iron Pipe installation shall follow the Ductile Iron Research Association (DIPRA) guide line.

The Installation of PVC Pipe shall follow the Uni-Bell PVC Pipe Association Handbook of PVC Design and Construction.

NOTES:

1. VAULT LIDS ARE REQUIRED TO HAVE ACCESS FRAME AND COVER TO BE PLACED DIRECTLY OVER METER TO PROVIDE AMPLE SPACE FOR SERVICING OR REMOVING METER.
2. IF FIRE FLOW METER IS NECESSARY, LARGER VAULT MAY BE REQUIRED.
3. ALL FITTINGS AND VALVES WILL BE FLANGED.
4. ALL METERS, GASKETS, BOLTS, AND NUTS WILL BE SUPPLIED BY THE WATER DISTRICT.
5. ALL DUCTILE IRON PIPE ENTERING AND LEAVING VAULT SHALL BE RESTRAINED
6. MINIMUM OF 3 JACK STANDS ON PIPING IN VAULT.
7. PIPE ENTERING AND EXITING THE VAULT WALLS SHALL BE SEALED WITH NON SHRINKING GROUT OR MASTIC.
8. VAULTS TO BE INSTALLED IN "GREEN SPACE" AND MADE EASILY ACCESSIBLE AT ANY TIME. (VERIFIED AND APPROVED BY WATER DISTRICT PERSONNEL).
9. VAULT LIDS TO BE FLUSH TO FINISH GRADE. (METER BOX CHIMNEYS AND OTHER MEANS OF RAISING VAULTS ARE PROHIBITED).
10. TWO FOOT (24") MINIMUM DISTANCE BETWEEN CENTER OF PIPING AND VAULT WALLS.
11. PIPING AND EQUIPMENT TO BE PLACED AT A MINIMUM OF 18" ABOVE CONCRETE FLOOR AND 5' BELOW TOP OF VAULT. (JACKS AND/OR BLOCKING CAN BE USED).



TYPICAL 3" OR LARGER
SERVICE METER BOX
DETAIL "G"
NOT TO SCALE

PUBLIC WATER SUPPLY DISTRICT #2
OF SAINT CHARLES COUNTY

APRIL 20, 2005
Rev. SEPT. 5, 2007

20

City of O'Fallon Standard Notes and Details – Nov. 2017

NO.	DESCRIPTION	DATE
1	REV 1	7-24-2019
2	REV 2	8-23-2019
3	REV 4	10-25-2019
4	REV 5	11-26-2019

PROJECT TITLE
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O'FALLON, MO 63366

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PROFESSIONAL LAND SURVEYING CORPORATION, LS-343-D

STATE OF MISSOURI
LEONARD J. MEERS
NUMBER
E-28288
PROFESSIONAL ENGINEER
1/13/20
LEONARD J. MEERS
PROFESSIONAL ENGINEER
E-28288

Developer / Owner Information
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WATER DETAILS

P+Z No. 19-001400
Approval Date: 6/6/2019
City No.

Page No.
C8.2