

LEGEND

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

TAMPED BACK FILL
 COMPACTED BACK FILL
 GRANULAR BEDDING

TABLE EMBEDDED DEPTHS BELOW PIPE

CLASS	A MIN. SOIL	A MIN. ROCK
CLASS B	2" & SMALLER	3"
CLASS C	3"	6"
CLASS D	3"	6"

GRANULAR BEDDING SHALL BE CRUSHED ROCK OR PEA GRAVEL WITH NOT LESS THAN 95% PASSING 1/2" (90% PASSING 3/4" FOR 30" AND LARGER PIPE) AND NOT LESS THAN 95% RETAINING ON A #4 TO BE PLACED IN NOT MORE THAN 5" LAYERS AND COMPACTED.

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. D1558 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 6" THICK AND TAMPED AROUND CONDUIT PIPE. GRANULAR BACK FILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF TAMPED BACK FILL.

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

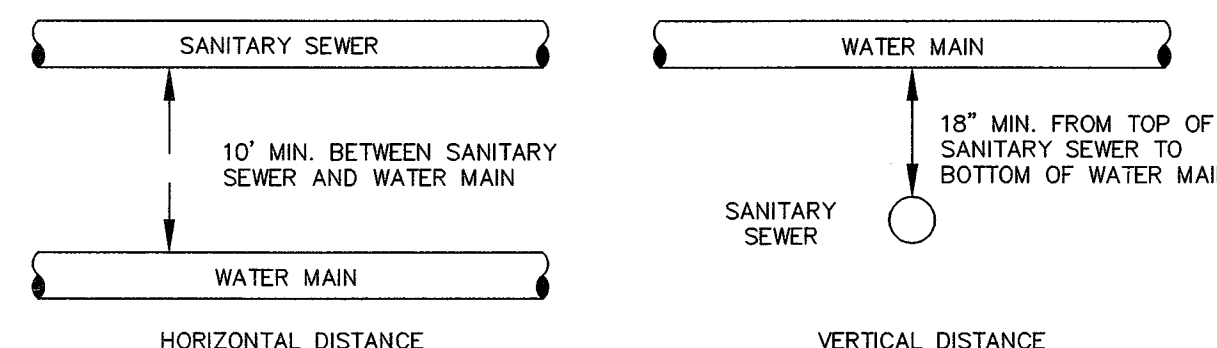
EMBEDDED THE TYPE OF EMBEDDED TO BE USED SHALL BE AS SPECIFIED IN THE PLANS AND SPECIFICATIONS.

TRACER WIRE REQUIRED ON ALL WATER MAINS

WATER MAIN EMBEDDED
 NOT TO SCALE

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

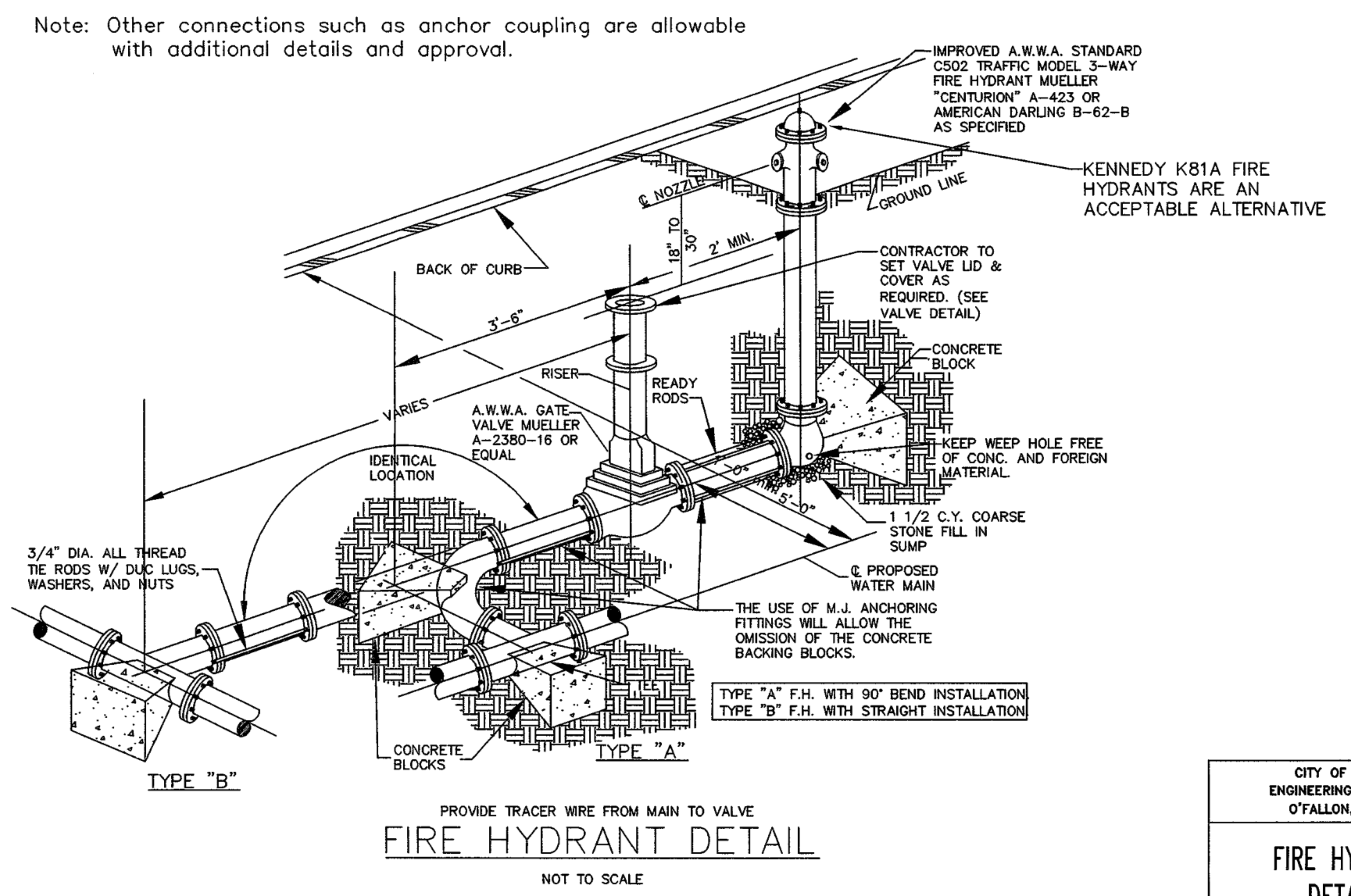
WATER MAIN EMBEDDED



TYPICAL WATER AND SEWER SEPARATION
 NOT TO SCALE

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

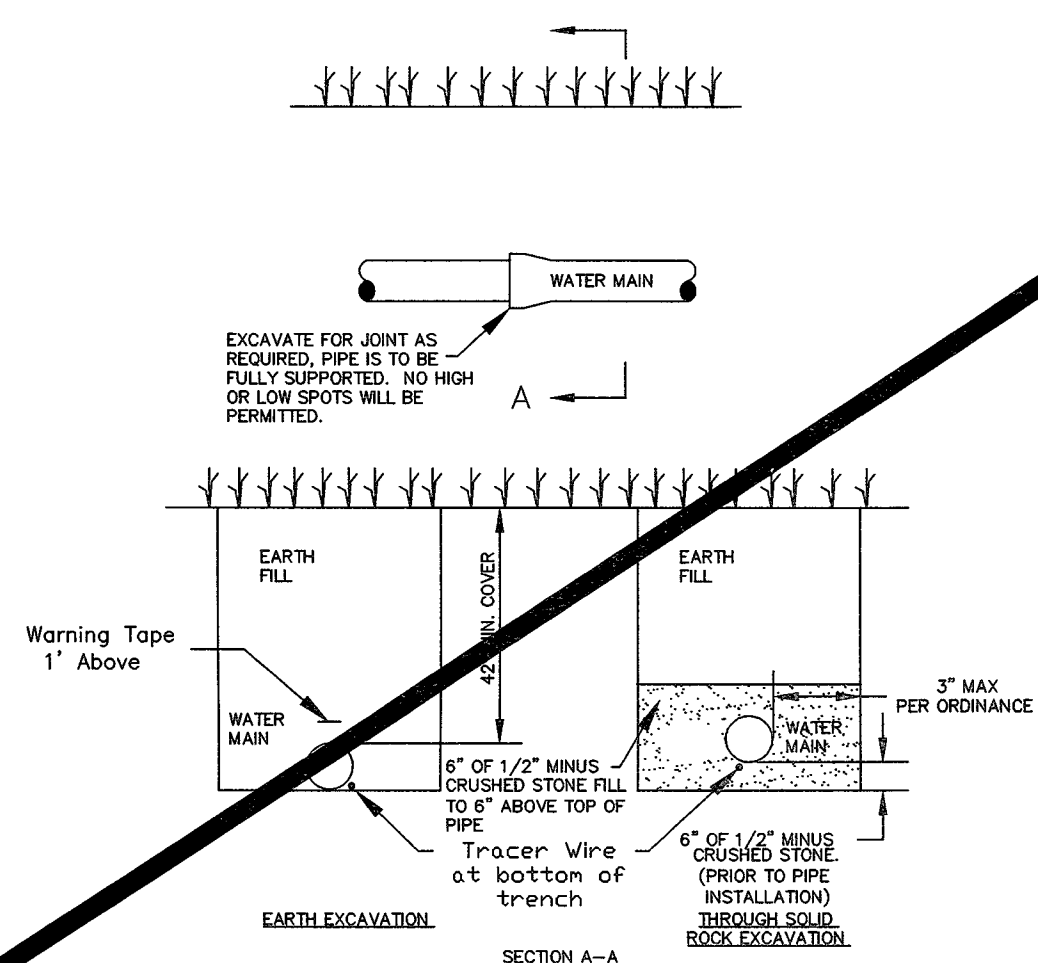
WATER AND SEWER SEPARATION DETAIL



FIRE HYDRANT DETAIL
 NOT TO SCALE

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 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI

FIRE HYDRANT DETAILS



TYPICAL WATER MAIN INSTALLATION DETAILS
 NOT TO SCALE

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 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.

PROJECT TITLE:
 SCCAD BASE 5
 8490 MEXICO RD.
 ST. PETERS, MO. 63376

ENGINEERING PLANNING SURVEYING

221 Point West Blvd.
 St. Charles, MO 63301
 636-928-5522
 FAX 636-928-1718

DISCLAIMER OF RESPONSIBILITY
 I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

REFERENCE DRAWINGS ONLY

REVISIONS

NO.	DATE	DESCRIPTION
5-10-17		CITY SUBMITTAL
6-9-17		BID SET
7-18-17		CITY COMMENTS

Developer / Owner:
 ST. CHARLES COUNTY AMBULANCE DISTRICT
 4169 OLD MILL PARKWAY
 ST. PETERS, MISSOURI 63376

WATER DETAILS

P+Z No. #1302.15.01
 approved (5-5-2016)
 extension (7-6-17)
City No. #17-003492

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