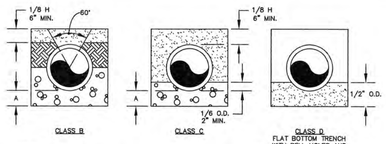



LEGEND
I.D. – NOMINAL PIPE SIZE
O.D. – OUTSIDE DIAMETER OF PIPE
H – COVER ABOVE TOP OF PIPE
A – EMBEDED BELOW PIPE (SEE TABLE)

TAMPED BACK FILL
COMPACTED BACK FILL
GRANULAR BEDDING

TABLE OF EMBEDED DEPTHS BELOW PIPE

| I.D. | A MIN. SOIL | A MIN. ROCK |
|---|---|---|
| 27" & SMALLER | 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 85% 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 6" 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.

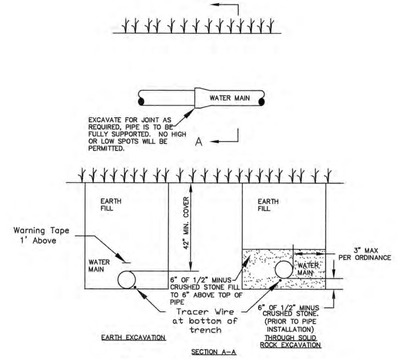
TRACER WIRE REQUIRED ON ALL WATER MAINS

## WATER MAIN EMBEDED

NOT TO SCALE

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

WATER MAIN EMBEDED



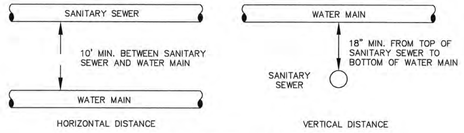

## TYPICAL WATER MAIN INSTALLATION DETAILS

NOT TO SCALE

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.

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

WATER MAIN INSTALLATION DETAIL




## TYPICAL WATER AND SEWER SEPARATION

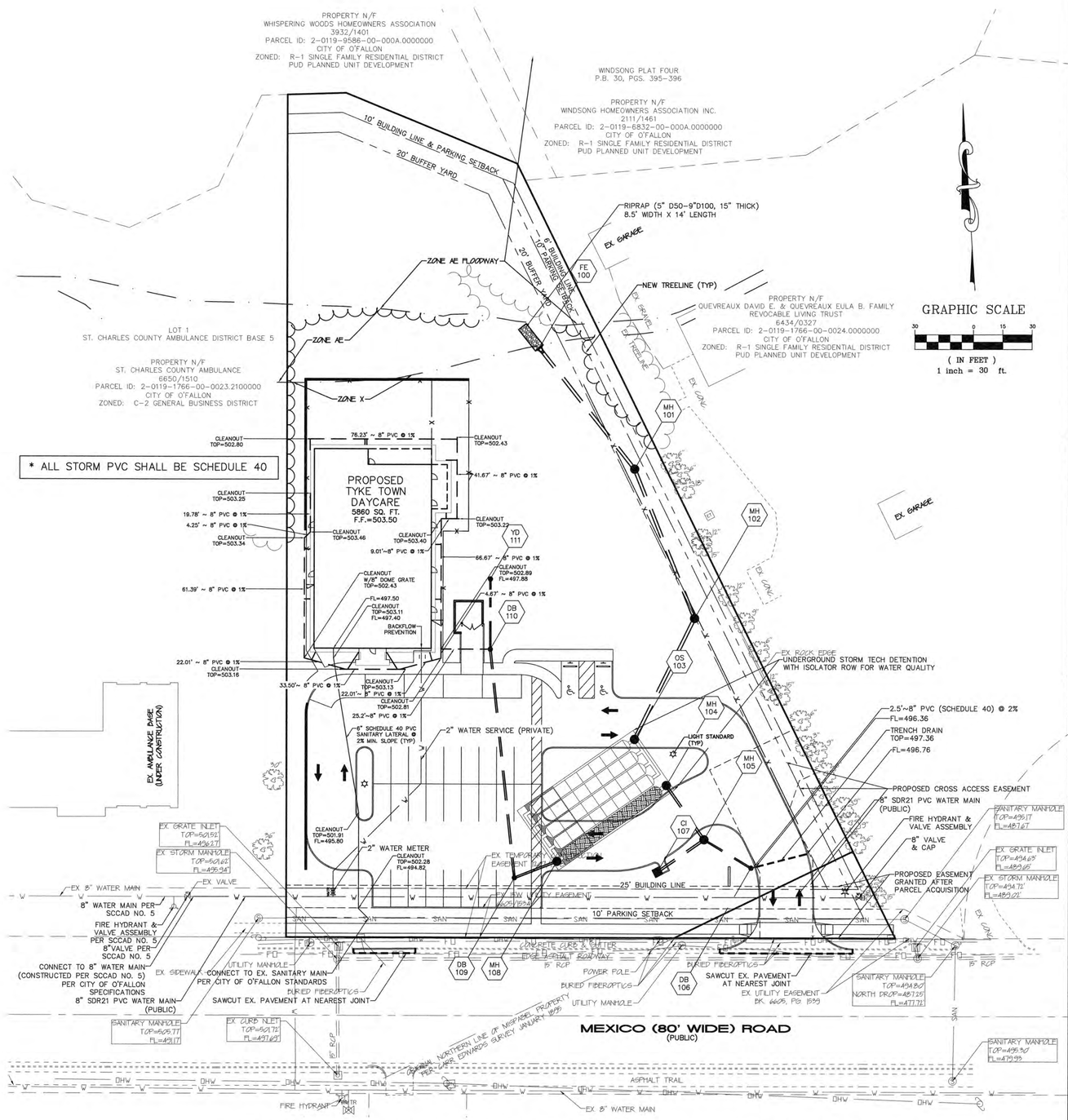
NOT TO SCALE

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

WATER AND SEWER SEPARATION DETAIL

NOTE: CITY OF O'FALLON WATER DETAILS CONTINUED ON SHEET 12 OF 15

**ENGINEER SEAL DOES NOT APPLY TO CITY OF O'FALLON DETAILS**




NOTE: CONTRACTOR RESPONSIBLE FOR COORDINATION WITH CITY & WATER DEPARTMENT FOR THE ABANDONMENT OF THE EXISTING WATER METER AND SANITARY LATERAL AT THE MAIN PER CITY OF O'FALLON STANDARDS

CALL BEFORE YOU DIG! 1–800–DIG–RITE

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.

**PROJECT TITLE:**
Construction Plans for
Tyke Town Development Centers
8368 Mexico Road
St. Peters, MO 63376

Bax Project # 00-1214CA | Issue Date: 03-26-18

ENGINEERING
ENGINEERING
SURVEYING
221 Point West Blvd.
St. Charles, MO 63301
636-928-5552
FAX 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.

STATE OF MISSOURI
LARRY DAVID WALKER
NUMBER PE-2007020343
PROFESSIONAL ENGINEER
05/07/18

Larry D. Walker
Civil Engineer
Engineers License No. 2007020343
Bax Engineering Company, Inc.
Missouri State Certificate of Authority
Engineering #000655
Missouri State Certificate of Authority
Surveying #000144

REVISIONS

| | |
|---|---|
| 04–16–18 | CITY COMMENTS |
| 05–03–18 | REV. BASIN DETAILS |
| 05–07–18 | CITY COMMENTS |

Developer / Owner:
Tyke Town Properties, LLC
P.O. Box 81
Troy, Missouri 63379
636-462-5380

**UTILITY PLAN**

P+Z No. 17-012955
Approval Date: 02-01-18
City No. #

Page No.
5 of 15