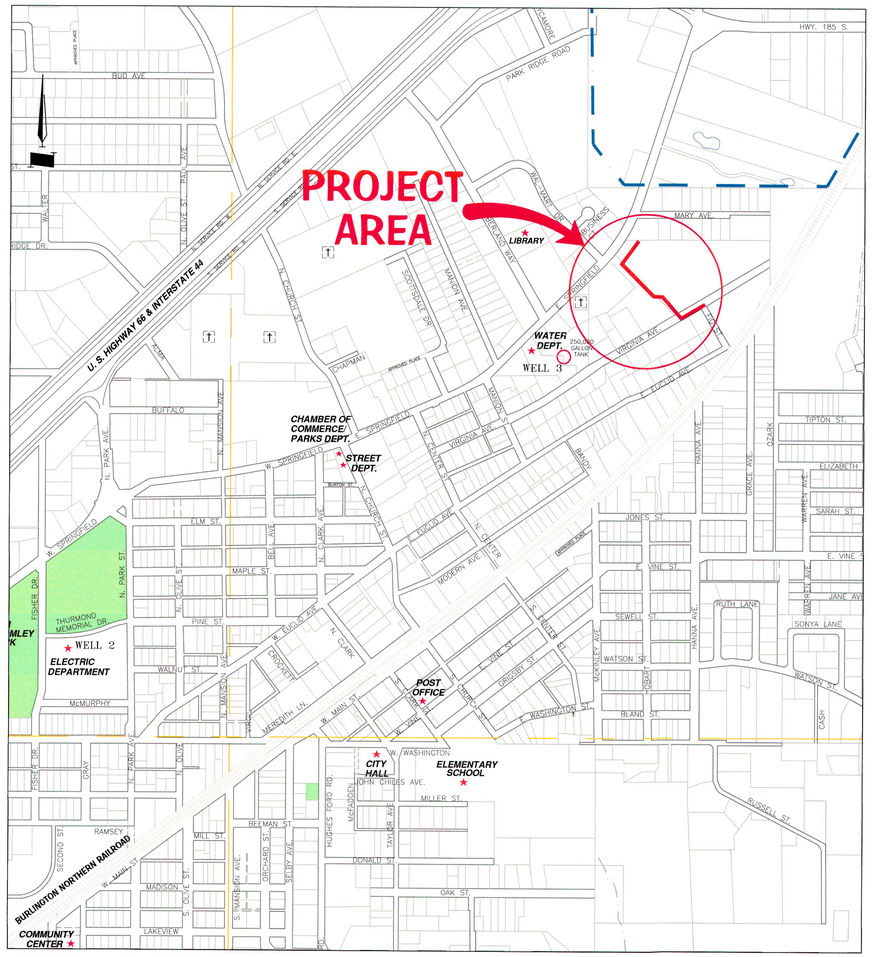
SULLIVAN
MISSOURI

SPRINGFIELD TO FIG
WATER MAIN IMPROVEMENTS
PROJECT #19009



PROJECT LOCATION MAP

CITY COUNCIL

Dennis Watz, Mayor
Tony Wessler, Ward I Alderman
Mark Dalton, Ward I Alderman
T.J. Carey, Ward II Alderman
Jason Alexander, Ward II Alderman
Paul McCulloch, Ward III Alderman
Bobby Maupin, Ward III Alderman

CITY ADMINISTRATOR

J.T. Hardy

DIRECTORY

CITY ENGINEERING DEPARTMENT Robert Schaffer, P.E., City Engineer	(573) 468-8965
CITY BUILDING DEPARTMENT Dan King, Code Administrator	(573) 468-8965
CITY STREET DEPARTMENT Billy Parker, Street Commissioner	(573) 468-4912
CITY WATER & SEWER DEPARTMENT John Garner, Water & Sewer Commissioner	(573) 468-4812
CITY ELECTRIC DEPARTMENT Joe Thurmond, Electric Commissioner	(573) 468-4712
CITY PARKS & RECREATION DEPARTMENT David Wall, Parks Director	(573) 468-5216
MISSOURI NATURAL GAS CO.	(800) 675-6577
MOGAS PIPELINE, LLC	(800) 282-4916
CHARTER CABLE TELEVISION	(636) 239-2197
FIDELITY TELEPHONE CO.	(573) 468-8081

City of Sullivan
Franklin County, MO.
SPRINGFIELD RD. TO FIG ST.

DESIGN DESIGNATION

FUCTIONAL CLASSIFICATION = NA
A.D.T. 2020 = NA
DESIGN SPEED = NA
% TRUCKS = NA

LENGTH OF PROJECT

NET LENGTH OF PROJECT = 1,000 L.F. +/-

SHEET INDEX

DESCRIPTION	SHEET NO.
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ABBREVIATIONS

ASPH.	ASPHALT
CL or ℄	CENTER LINE
CLR	CLEAR
CONC.	CONCRETE
DIP	DUCTILE IRON PIPE
ELEV. or EL.	ELEVATION
EX.	EXISTING
FL	FLOWLINE
FT	FEET
HORIZ.	HORIZONTAL
I.D.	INSIDE DIAMETER
LF	LINEAL FEET
LH	LAMPHOLE
LR	LONG RADIUS
MAX.	MAXIMUM
MH	MANHOLE
MIN.	MINIMUM
MJ	MECHANICAL JOINT
NO.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PL	PROPERTY LINE
PVMT.	PAVEMENT
R or RAD.	RADIUS
REINF.	REINFORCING
SAN.	SANITARY
SHT	SHEET
STRUC.	STRUCTURE
T.B.R.	TO BE REMOVED
TYP.	TYPICAL
U.I.P.	USE IN PLACE
VERT.	VERTICAL
W/	WITH

REVISIONS	BY

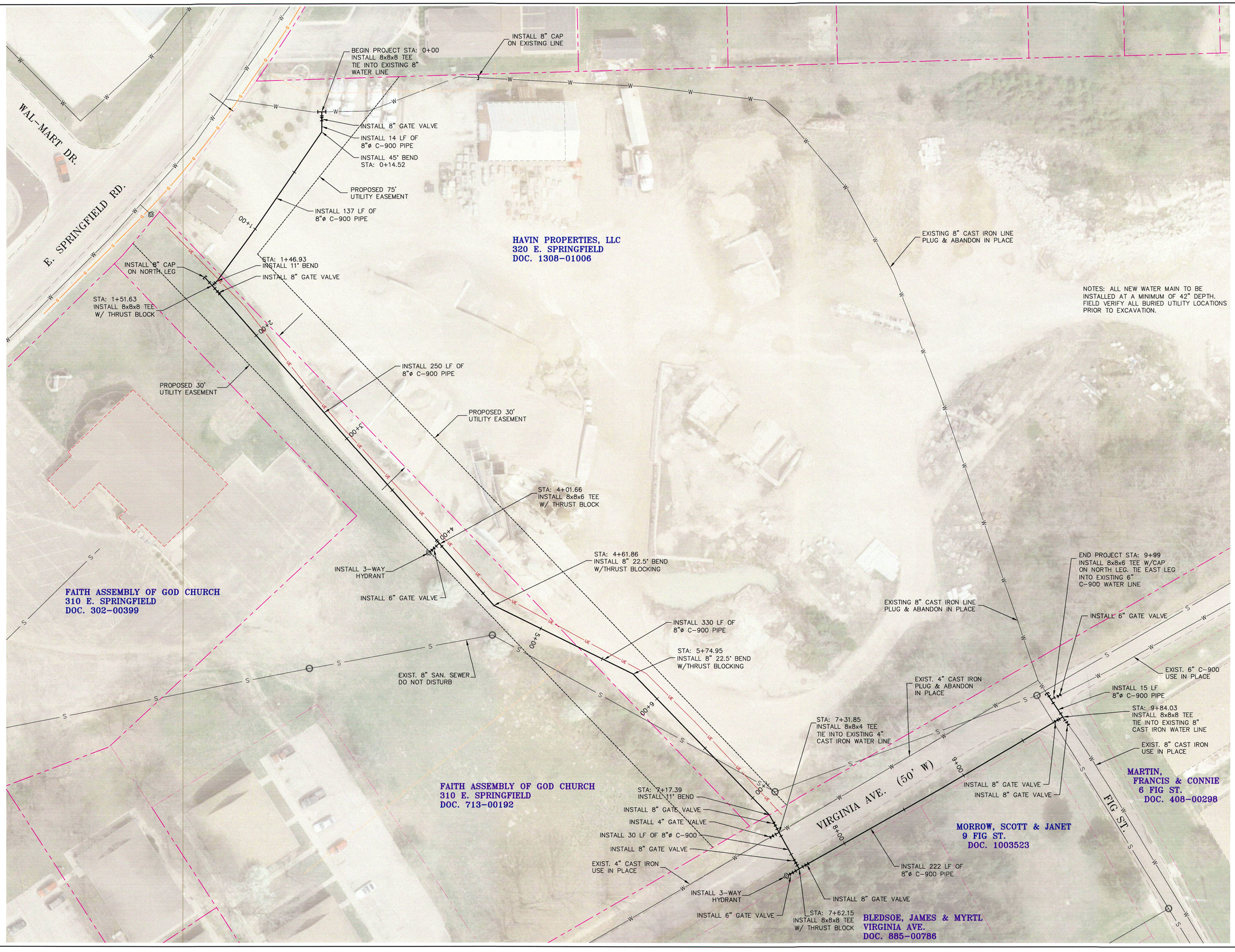
STATE OF MISSOURI
ROBERT A. SCHAFFER
NUMBER E-29444
REGISTERED PROFESSIONAL ENGINEER
7/10/20

PROJECT FOR:
SPRINGFIELD to FIG WATER MAIN IMPROVEMENTS
SULLIVAN, MISSOURI

TITLE SHEET

SULLIVAN MISSOURI
"...Values and Tradition – Vision and Progress"
210 W. WASHINGTON
SULLIVAN, MO. 63080
PH: 573-468-8965
FAX: 573-468-8964
www.sullivan-mo.us
sullivanmissouri
@CityofSullivan

DRAWN BY:	DG
CHECKED BY:	RS
DATE:	7/10/2020
SCALE:	NTS
PROJECT No.	19009
FILE:	19009T1
SHEET	1
	OF 3 SHEETS



REVISIONS	BY

ROBERT J. SCHAFFER
NUMBER E-29444
7/10/2020
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER

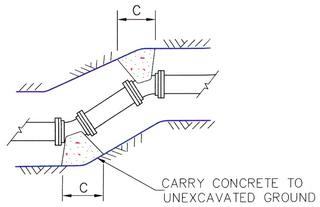
PROJECT FOR:
SULLIVAN, MISSOURI

SPRINGFIELD to FIG WATER MAIN IMPROVEMENTS

PLAN

SULLIVAN MISSOURI
"Values and Tradition – Vision and Progress"
210 W. WASHINGTON
SULLIVAN, MO 63080
PH: 573-468-8965
FAX: 573-468-8964
www.sullivan.mo.us
sullivanmissouri
@CityofSullivan

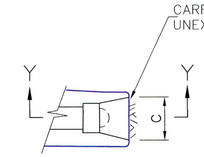
DRAWN BY:	DG
CHECKED BY:	RS
DATE:	7/10/2020
SCALE:	1"=30'
PROJECT No.	19009
FILE:	19009/19009base
SHEET	2
OF	3 SHEETS



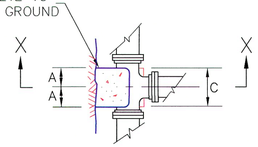
PLAN

D	A	B	C	E	F	G	H	I	J
6" & SMALLER	2'-8"	1'-6"	2'-0"	12"	12"	3'-0"	2'-0"	2'-0"	12"
8" & 10"	6'-8"	2'-6"	4'-0"	2'-0"	2'-0"	4'-0"	3'-0"	3'-0"	18"
12"	8'-0"	3'-0"	4'-6"	2'-6"	2'-3"	4'-0"	3'-0"	3'-0"	18"

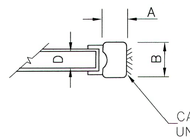
NOTE: DIMENSIONS BASED ON 150 PSI TEST RESSURE & 1000 LBS./ FT. BEARING CAPACITY OF SOIL.



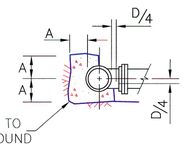
PLAN



PLAN

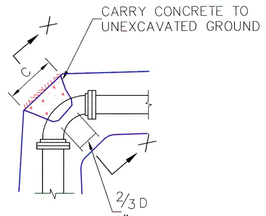


SECTION Y–Y



SECTION X–X

THRUST BLOCK FOR CAPS OR PLUGS



PLAN

THRUST BLOCK FOR TEES & HORIZ. BENDS

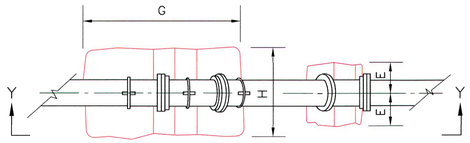
NOTE:
FOR PVC PIPE, SET SCREW RETAINER GLANDS MAY BE USED IN LIEU OF CONCRETE THRUST BLOCKS. USE MECHANICAL JOINT DUCTILE FITTINGS WITH A MEGA–LUG RETAINER GLAND OR APPROVED EQUAL. ALL SIZES ABOVE 12" CONCRETE THRUST BLOCKS SHALL NOT BE USED. USE ON PVC SECTIONS FOR A DISTANCE EACH WAY FROM THE FITTING OR DEAD END AS FOLLOWS:

SIZE \ FTG. TYPE	11 ¼°	22 ½°	45°	90°	TEES / DEAD ENDS
4" & 6"	5'	5'	10'	20'	10'
8" & 10"	10'	10'	20'	30'	15'
12" & 14"	20'	40'	60'	80'	60'

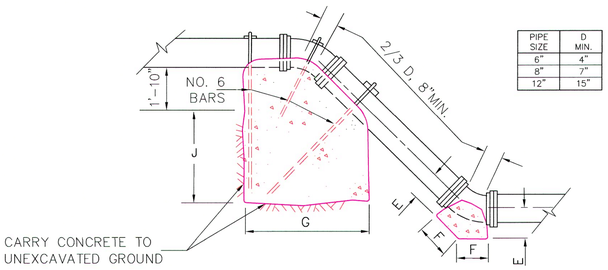
NOTE: IF REQUIRED LENGTH FALLS IN BETWEEN FTGS., EXTEND TO NEXT JOINT. THE ABOVE TABLE ALSO APPLIES TO DUCTILE IRON PIPE WITH RESTRAINED JOINTS.

THRUST BLOCK DETAILS

NO SCALE



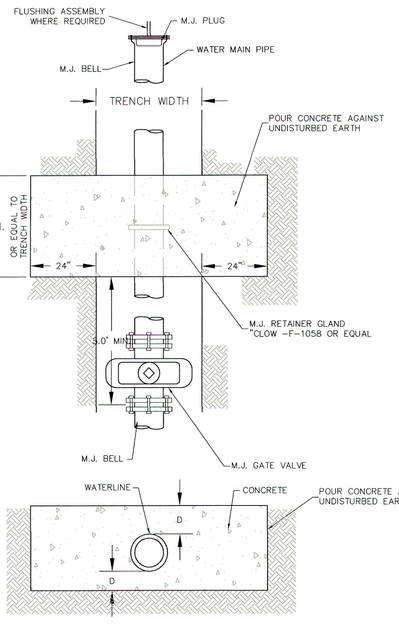
PLAN



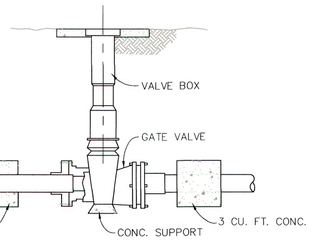
PIPE SIZE	D MIN.
6"	4"
8"	7"
12"	15"

SECTION Y–Y

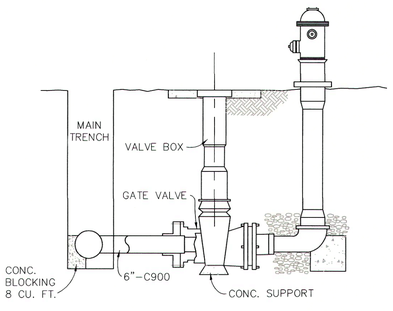
THRUST BLOCK FOR VERT. 1/8 & 1/16 BENDS



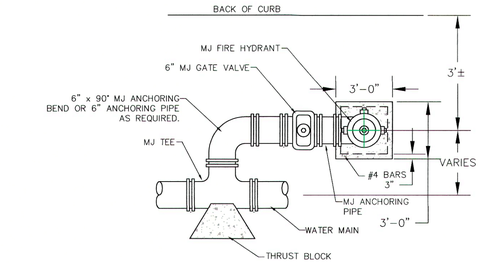
DEAD END LINE ASSEMBLY

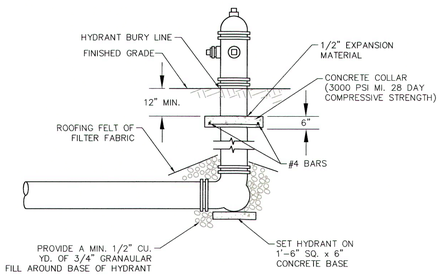


GATE VALVE INSTALLATION ON PLASTIC LINE
NOT TO SCALE

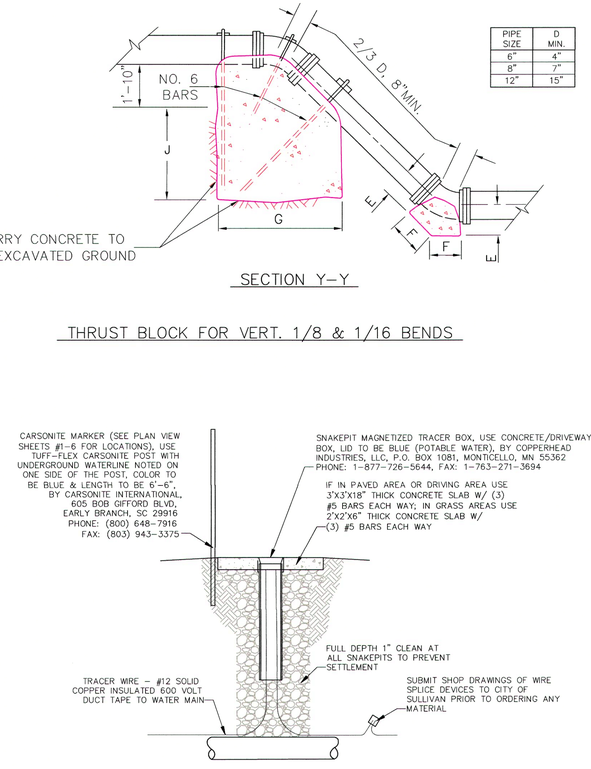


FIRE HYDRANT INSTALLATION
NOT TO SCALE





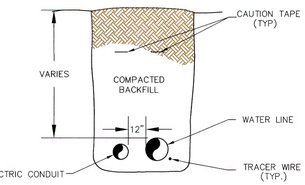
PARALLEL FIRE HYDRANT INSTALLATION
NOT TO SCALE



SNAKEPIT TRACER BOX & CARSONITE MARKER DETAIL
NOT TO SCALE

DETECTABLE REINFORCED MARKING TAPE THE MARKING TAPE SHALL BE CONSTRUCTED OF 6" WIDE ALUMINUM FOIL CORE WHICH IS DETECTABLE BOTH INDUCTIVELY AND CONDUCTIVELY. NOMINAL THICKNESS SHALL BE 8 MILS. THE TAPE SHALL BE SAFETY BROWN WITH CONTRASTING PERMANENT INK AND IMPRINTED "CAUTION – FORCE MAIN BURIED BELOW". THE IMPRINT SHALL REPEAT ITSELF FOR THE ENTIRE LENGTH OF THE TAPE. TERMI–FOIL SPLICE STRIPS SHALL BE PROVIDED TO ALLOW CONDUCTIVELY ENERGIZING THE TAPE. THE IDENTIFIER RIBBON SHALL BE THORTEC AS MANUFACTURED BY THOR ENTERPRISES, INC. OF SUN PRARIE, WISCONSIN (PHONE NO. 1–800–872–8467) OR AN APPROVED EQUAL.

LOCATOR WIRE THE LOCATOR WIRE SHALL BE NO. 12 BARE COPPER WIRE AND THE WIRE SHALL BE INSTALLED CONTINUOUSLY BENEATH ALL FORCE MAIN PIPE AS SHOWN ON THE MISCELLANEOUS DETAILS.



TRENCH DETAIL
WATER LINE AND ELECTRIC CONDUIT

REVISIONS	BY

STATE OF MISSOURI
ROBERT SCHAFFER
NUMBER E-29444
7/15/2020
REGISTERED PROFESSIONAL ENGINEER

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SULLIVAN, MISSOURI

MISCELLANEOUS WATER DETAILS

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sullivanmissouri
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DRAWN BY:	DG
CHECKED BY:	RS
DATE:	7/10/2020
SCALE:	N.T.S.
PROJECT No.	19009
FILE:	19009D2.dwg
SHEET	3
OF	3 SHEETS