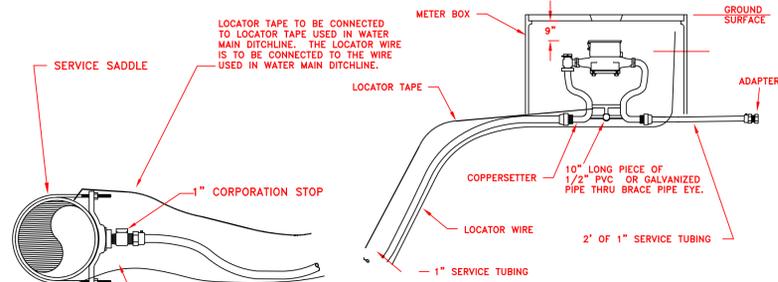


NOTE: NO SERVICE TAPS AND/OR METER BOXES SHALL BE LOCATED IN DRIVEWAYS.

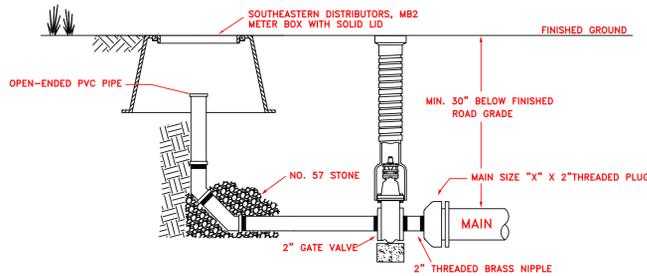


- NOTES:
1. WHEN REPLACING METERS/SERVICES, THE PIGTAIL SHALL BE CONNECTED TO THE CUSTOMER'S EXISTING SERVICE LINE.
 2. ALL 3/4" AND 1" METERS LOCATED ON OPPOSITE SIDE OF THE ROAD FROM THE MAIN SHALL HAVE THEIR SERVICE LINE INSTALLED IN 2" SDR-21 CASING PIPE.
 3. ALL BRASS COMPONENTS SHALL MEET THE NEW LOW LEAD LIMITS IN ACCORDANCE WITH FEDERAL LAW S.3874 AND NSF-61, ANNEX G.

FITTINGS TO BE USED

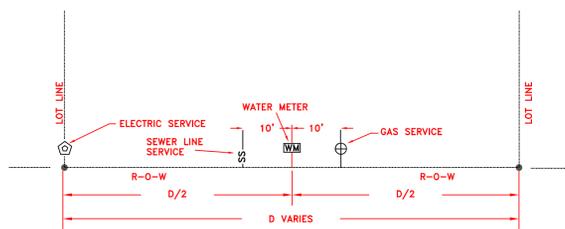
- | ITEM | PART NUMBERS |
|---------------------|--|
| SADDLE, PVC PIPE: | FORD STYLE S70, MUELLER S-134 SERIES, WITH AWWA TAPERED (CC) THREADS, AY MCDONALD 3891 SERIES |
| SADDLE, D.I. PIPE: | SMITH-BLAIR PIPE 313, FORD STYLE F202, WITH CC THREADS, AY MCDONALD 4862A SERIES |
| CORP. STOP: | FORD F1000-4-0, WITH CC THREADS, MUELLER H1500S, 1" FOR 5/8" X 3/4" AND 1" METERS, AY MCDONALD 747010 |
| SERVICE TUBING: | 1" REHAU MUNICIPEX, SDR-9 (CTS), SHALL CONFORM TO AWWA C904 AND ASTM F876 |
| INSERTS: | INSERTS TO BE PLASTIC, NO METAL INSERTS ALLOWED |
| COPPER SETTER: | FOR 5/8 X 3/4 METER:
AY MCDONALD 5183-411, FORD NUMBER VB-72-7W-44-44Q, MUELLER B2434 WITH A H15451 1" COMPRESSION CTS X 1" F.I.P. INLET ADAPTER AND A H15451 1" COMPRESSION CTS OUTLET FOR 1" METER:
AY MCDONALD 5183-479, FORD NUMBER VB74-10W-44-44-Q, MUELLER B2434 WITH A H15451 1" COMPRESSION CTS X 1" F.I.P. INLET AND OUTLET ADAPTER |
| ADAPTER: | FORD NUMBER C14-44-0, MUELLER H-15451 -1" CTS COMPRESSION X 1" F.I.P. |
| METER BOX: | SOUTHEASTERN DISTRIBUTORS, INC., M2 METER BOX WITH TRICAST CAST IRON LID WITH CORNER SENSUS RECESS-MSM2-AMR4/LO, TRICAST M2 CENTER LID FOR TRICAST CAST IRON M2 LID -MSM2-CENTER/AMR4 |
| LOCATOR TAPE: | 2" DETECTION TAPE WITH WORDS "CAUTION WATER LINE BURIED BELOW" |
| LOCATOR WIRE: | # 12 AWG SOLID COPPER WIRE COATED PEAS BLUE, NOT REQUIRED WITH COPPER SERVICES |
| DIRECT BURY SPLICE: | KING WIRE NUT W/SILICONE TO FIT #8 GA. THRU #22 GA. WIRE (DIRECT BURY KING 6 BLUE) |
| METERS: | FURNISHED BY CITY FOR SMALLER METERS.
2" METER ASSEMBLY FOR OPPOSITE SIDE INCLUDES A (MAIN LINE SIZE X 2" THR. TEE), A 2" THR. GV ON TEE, A 2" GV IN FRONT OF THE 2" METER BOX, THE 2" BOX, SETTER & METER, AND AN ADDITIONAL 2" GV ON THE CUSTOMER SIDE OF THE METER. FOR A 2" METER ASSEMBLY ON THE SAME SIDE, THE 2" GV IN FRONT OF THE 2" BOX SHALL BE ELIMINATED. BOTH OPPOSITE & SAME SIDE RECONNECTIONS TO THE CUSTOMERS LINE ARE INCLUDED IN THIS ITEM. |

WATER SERVICE DETAIL
NOT TO SCALE

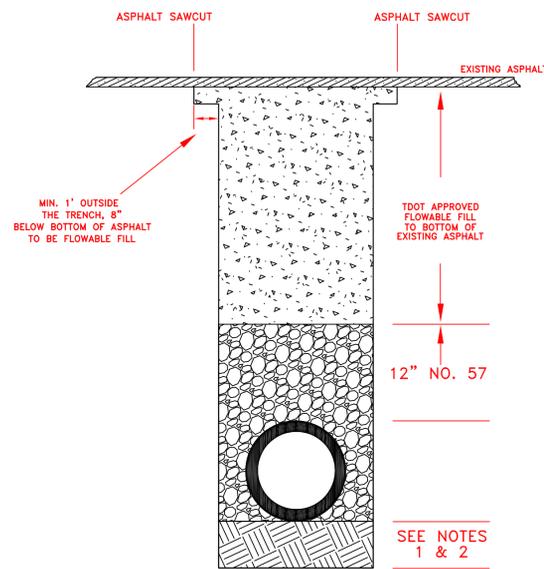


- NOTES:
1. DEAD ENDS INTENDED TO BE EXTENDED SHALL HAVE A MAIN LINE SIZE GATE VALVE, MECHANICALLY RESTRAINED. IN THAT CASE, THE 2" GATE VALVE SHOWN CAN BE LEFT OFF.
 2. ALL METERS, BOXES, FITTINGS, VALVES AND VALVE BOXES SHALL COMPLY WITH THE CITY OF COOKEVILLE STANDARD SPECIFICATIONS

END OF LINE BLOW-OFF
NOT TO SCALE



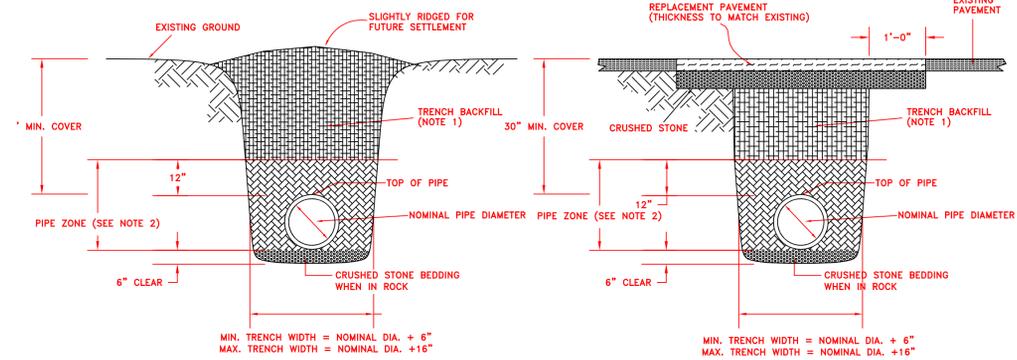
TYPICAL UTILITY SERVICES LOCATIONS
NOT TO SCALE



- NOTES:
1. UNDISTURBED EARTH FOR WATER UNLESS UNDERCUTTING IS REQUIRED. IF REQUIRED, CONTRACTOR SHALL EXCAVATE TO SOLID EARTH AND BACKFILL AND COMPACT IN 6" LIFTS TO BOTTOM OF PIPE ELEVATION.
 2. FOR SEWER INSTALLATION, THE PIPE SHALL BE BEDDED ON 6" OF COMPACTED NO. 57 STONE.
 3. ALL PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 4. ASPHALT REPLACEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

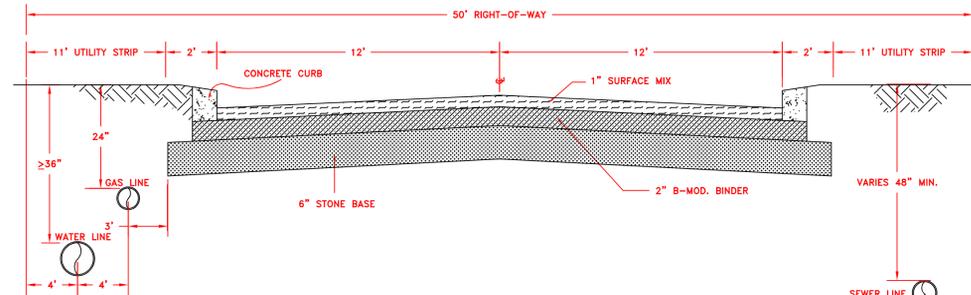
FLOWABLE FILL (CITY & STATE ROADS)
NOT TO SCALE

- NOTES:
1. SEE PROJECT SPECIFICATIONS FOR BACKFILL REQUIREMENTS.
 2. "PIPE ZONE" EXTENDS TO 12" ABOVE TOP OF PIPE AND IS AREA IN WHICH SPECIAL CARE IS TO BE GIVEN TO PLACEMENT AND COMPACTION TO PROTECT PIPE DURING AND AFTER LAYING.
 3. LIMIT TRENCH WIDTH AT TOP OF PIPE TO NOMINAL PIPE DIAMETER PLUS 16" UNLESS PERMITTED OTHERWISE BY ENGINEER.
 4. TRENCH SHALL BE DUG TO GIVE PIPE FULL AND CONTINUOUS SUPPORT. ALL ROCK TO BE REMOVED WITHIN 6" OF PIPE - BED TO PIPE GRADE WITH CRUSHED STONE BEDDING. BEDDING FROM PIPE GRADE TO 1/2 PIPE DIAMETER TO BE TAMPED EARTH, CRUSHED STONE OR OTHER APPROVED MATERIAL.
 5. PIPE TO BE CONTINUOUSLY SUPPORTED ALONG LENGTH OF PIPE BARREL EXCEPT AT BELL. BELL HOLES ARE REQUIRED SUCH THAT NO BEARING LOAD IS TAKEN BY THE BELL.

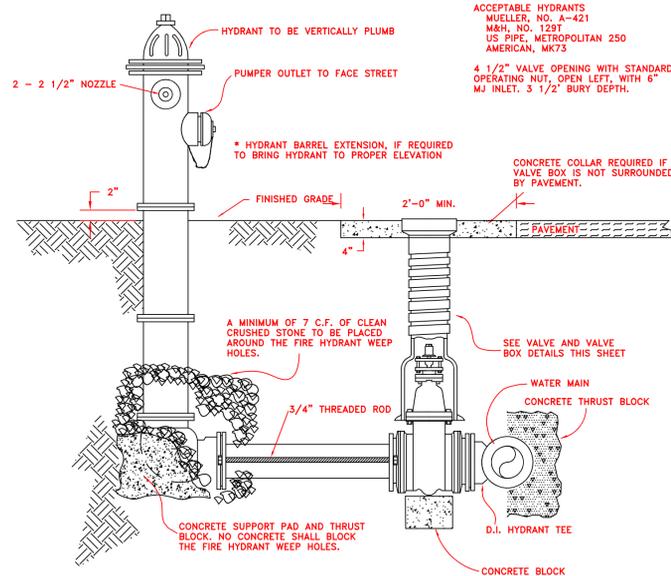


WATER LINE INSTALLATION
NOT TO SCALE

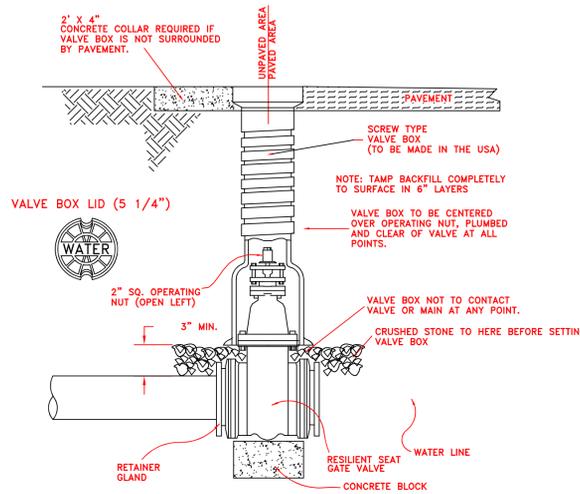
*BACKFILL TRENCH TO SUBGRADE WITH STONE UNDER EXISTING AND PROPOSED PAVEMENT AREAS.



TYPICAL UTILITY SECTION
NOT TO SCALE



TYPICAL FIRE HYDRANT ASSEMBLY
NOT TO SCALE



TYPICAL VALVE AND VALVE BOX SECTION
NOT TO SCALE



STANDARD WATER LINE DETAILS

DESIGN:	DATE:	02/13/2026	SCALE:	N.T.S.	PROJ.:
CHECKED:	DATE:		REVISIONS	BY:	
DRAWN:	DATE:				

90° BEND						
SIZE	2"	4"	6"	8"	10"	12"
A	16"	16"	26"	33"	40"	50"
B	16"	16"	24"	33"	40"	50"
C	9"	9"	12"	15"	16"	22"
D	8"	8"	12"	16"	20"	24"

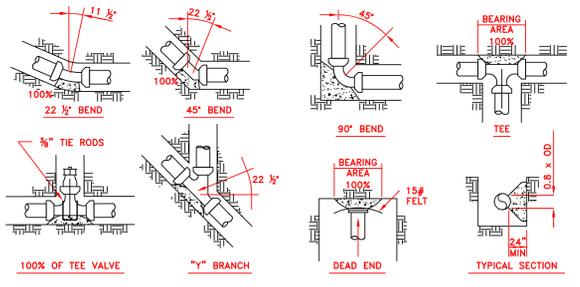
11-1/4° BEND						
SIZE	2"	4"	6"	8"	10"	12"
A	9"	9"	11"	13"	16"	30"
B	9"	9"	11"	13"	16"	30"
C	8"	8"	10"	12"	14"	15"
D	4"	4"	5"	6"	8"	9"

45° BEND						
SIZE	2"	4"	6"	8"	10"	12"
A	12"	12"	18"	24"	31"	37"
B	12"	12"	18"	24"	31"	37"
C	8"	8"	10"	12"	14"	16"
D	6"	6"	9"	12"	15"	18"

TEE						
SIZE	2"	4"	6"	8"	10"	12"
Main	2"-6"	8"-12"	14"-18"	20"-24"	26"-30"	32"-36"
Branch	2"-6"	8"-12"	14"-18"	20"-24"	26"-30"	32"-36"
A	26"	26"	43"	28"	43"	52"
B	26"	26"	43"	28"	43"	52"
C	12"	12"	12"	12"	12"	30"
D	13"	13"	21"	13"	21"	24"

22-1/2° BEND						
SIZE	2"	4"	6"	8"	10"	12"
A	9"	9"	13"	18"	23"	26"
B	9"	9"	13"	18"	23"	26"
C	8"	8"	10"	12"	14"	16"
D	4"	4"	6"	9"	11"	13"

PLUG						
SIZE	2"	4"	6"	8"	10"	12"
A	26"	26"	26"	34"	43"	52"
B	26"	26"	26"	34"	43"	52"
C	12"	12"	12"	12"	12"	30"
D	11"	11"	11"	15"	22"	32"



FOR OTHER ANGLES NOT SHOWN, CALCULATE AS REQUIRED.

2 #5 REBARS EXPOSED REBARS COATED WITH MASTIC TAMP BACKFILL MATERIAL BETWEEN BLOCK & PIPE

WEIGHT OF CONCRETE TO RESIST 100% OF TOTAL THRUST

FOR BENDS: $R = 2PA \sin \frac{\Delta}{2}$
 WHERE: P = TEST PRESSURE, PSI
 A = PIPE AREA, SQ. IN.

USE THE FORMULA BELOW TO CALCULATE BEARING AREA OF THRUST BLOCKS FOR VERTICAL BENDS WITH DOWNWARD THRUST AND HORIZONTAL BENDS.

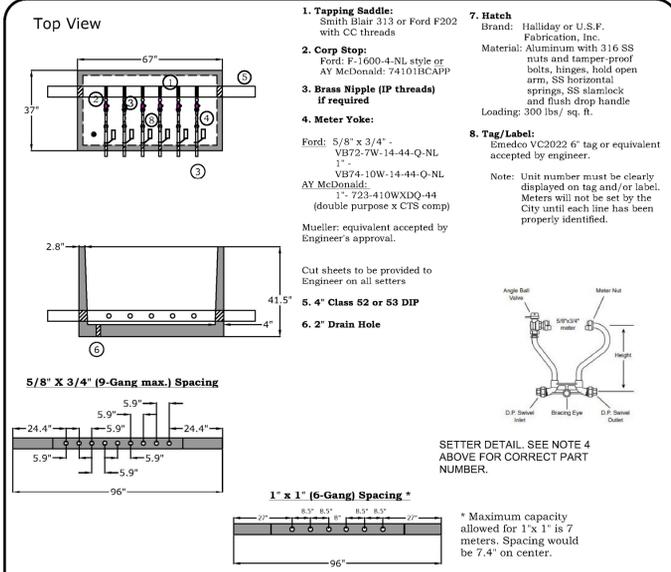
AREA THRUST BLOCK (SQ. FT.) = $R / S \times D$

IN WHICH:
 R = (FROM FORMULA ABOVE, IN LBS)
 S = ALLOWABLE SOIL PASSIVE PRESSURE IN LB/FT²
 D = DISTANCE IN FEET FROM GRADE DOWN TO CENTERLINE OF FITTING FOR HORIZONTAL BENDS;
 FOR VERTICAL BENDS USE D = 1'-0" FOR CALCULATION REGARDLESS OF DEPTH.

VERTICAL BEND WITH UPWARD THRUST

HORIZONTAL BEND OR VERTICAL BENDS WITH DOWNWARD THRUST

THRUST BLOCK DETAIL
NOT TO SCALE



GENERAL NOTES:

- Termination of the 4" D.I.P shall be accomplished by installing a cap with a Romac Grip Ring Restraining Coupling outside of the vault (minimum of 12" outside of vault).
- All materials shall be domestically produced.

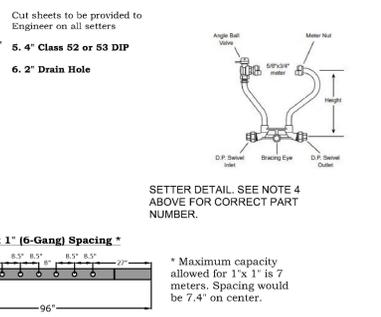
COOKEVILLE
 TENNESSEE
 DEPARTMENT OF WATER QUALITY CONTROL
 1860 S. JEFFERSON AVENUE
 COOKEVILLE, TN 38506

Specifications

Concrete: 5,000 psi minimum strength (28 day)
 Pipe Penetrations: All pipe penetrations are placed according to job requirements.
 Pipe Stands: N/A
 Sealant: N/A
 Steps: N/A

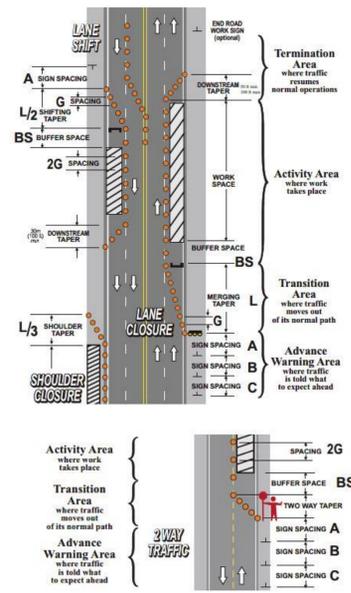
APPENDIX A- GANG METER VAULTS
STANDARD DRAWING

- Tapping Saddle:** Smith Blair 313 or Ford F202 with CC threads
- Corp Stop:** Ford F-1600-4-NL style or AY McDonald: 74101BCAPP if required
- Brass Nipple (IP threads) if required**
- Meter Yoke:** Ford: 5/8" x 3/4" VBT72-7W-14-44-Q-NL 1"-723-410WXDQ-44 (double purpose x CTS comp) AY McDonald: 1"-723-410WXDQ-44 (double purpose x CTS comp) Mueller: equivalent accepted by Engineer's approval.
- 5.4" Class S2 or S3 DIP**
- 2" Drain Hole**
- Hatch:** Brand: Halliday or U.S.F. Fabrication, Inc. Material: Aluminum with 316 SS nuts and tamper-proof bolts, hinges, hold open arm, SS horizontal springs, SS slantlock and flush drop handle Loading: 300 lbs/ sq. ft.
- Tag/Label:** Emetec VC2022 6" tag or equivalent accepted by engineer. Note: Unit number must be clearly displayed on tag and/or label. Meters will not be set by the City until each line has been properly identified.



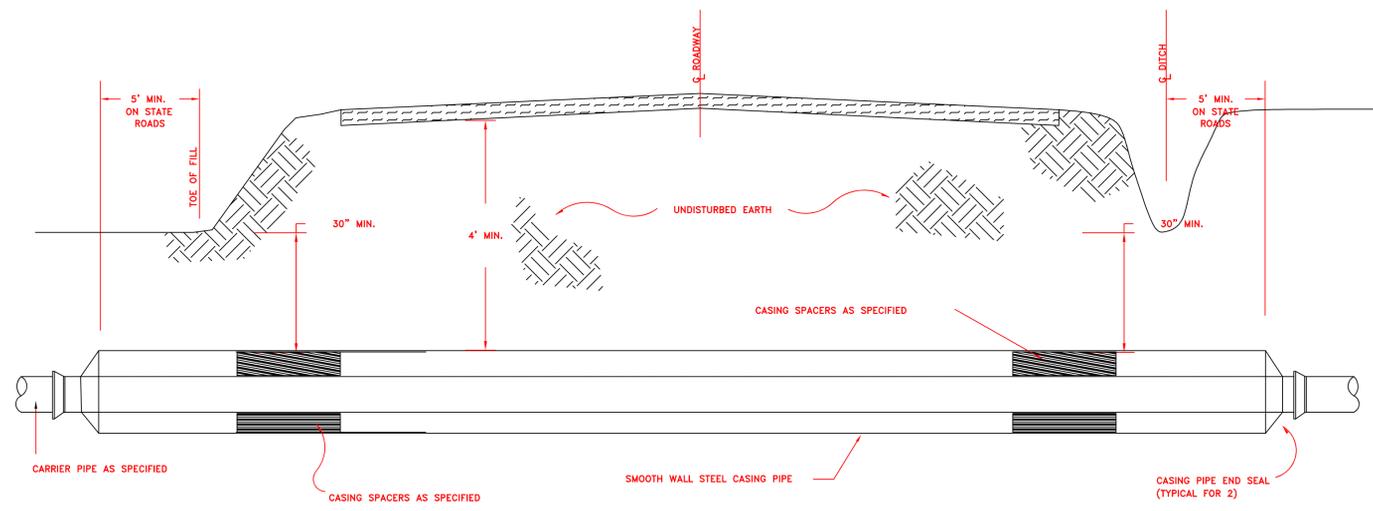
SETTER DETAIL. SEE NOTE 4 ABOVE FOR CORRECT PART NUMBER.

* Maximum capacity allowed for 1" x 1" is 7 meters. Spacing would be 7.4" on center.



- NOTES:
- CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL.
 - FOR LANE CLOSURES ON TN STATE ROUTES, A TRAFFIC CONTROL IS REQUIRED AND MUST BE SUBMITTED TO DOT.
 - ALL TRAFFIC CONTROL SET-UPS SHALL BE APPROVED BY THE CITY (LOCAL STREETS) AND BY TDOT (STATES ROUTES).
 - ALL TRAFFIC CONTROL SET-UPS SHALL COMPLY WITH ALL MUTCD REQUIREMENTS AND GUIDELINES.

TRAFFIC CONTROL (CITY & STATE ROADS)
NOT TO SCALE



BORE AND JACK CROSSING
NOT TO SCALE

NOTE:
ALL CASING PIPE, WHETHER INSTALLED BY OPEN CUTTING OR BORE AND JACKING, SHALL USE CASING SPACERS AND END SEALS.



STANDARD WATER LINE DETAILS

DESIGN:	DATE:	REVISIONS
CHECKED:	02/13/2026	DATE: BY:
DRAWN:	SCALE: N.T.S.	DATE: BY:
	PROJ:	DATE: BY:

SHEET
W2