



# PLUMSTEAD TOWNSHIP

5186 Stump Road,  
Pipersville PA 18947  
Phone: (215) 766-8914  
[www.plumstead.org](http://www.plumstead.org)

OFFICIAL USE ONLY  
Date Rec. \_\_\_\_\_

## PUBLIC WATER CONNECTION REQUEST

Site Address: _____		TMP# _____	
Property Owner	Name		
	Address		
	Phone	Email	

Current Use of the Property: \_\_\_\_\_

Proposed Use of the Property: \_\_\_\_\_

Reason For Request: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### To Be Submitted:

- Professional Services Agreement (form on website) & Professional Services Escrow (\$2,500)
- Site Plan/Engineering Drawings showing location of connection and using the required specs. (see appendix A)
- Electronic copy of Plans must be emailed to [mstorti@plumstead.gov](mailto:mstorti@plumstead.gov).

*Upon submission of this request, the application/plans will be reviewed by the Township Water Engineer. Then, the Board of Supervisors will vote on the connection request at their next available meeting which takes place on the 2<sup>nd</sup> Wednesday of each month.*

*If the Board grants approval, then you will need to follow the following steps:*

1. Submit Connection Fee: \$1,500 per EDU (Northern is \$1,510.09 per EDU)
2. Purchase an EDU: \$100 per EDU
3. Apply for a plumbing permit which includes the water meter fee. Fee will be based on current market price for meter and spread.
4. Installation of the water meter spread, a backflow preventer and pressure reducing valve by your personnel/contractor to the specifications provided by Plumstead Township
5. Installation of a curb stop/shut off/gate valve where the connection to the water main is at the street
6. Installation of a curb stop/shut off valve in the yard/driveway outside of the building
7. Pressure test, disinfect and sample water line prior to being restored to service
8. Prepare and provide to Plumstead Township an as-built/sketch plan of the connection at both the water main in the street and at the building
9. Establish customer account information for the purpose of quarterly billing for service

10. Establish emergency contact information for emergency/non-emergency notification

Road Opening Permit from PA DOT for opening a state roadway to connect to the public water supply.

OR

Road Opening Permit from Plumstead Township for opening a roadway to connect to the public water supply.

**Print Name of Applicant:** \_\_\_\_\_

**Signature of Applicant:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Continue to next page for Appendix A (Engineering Specifications)**

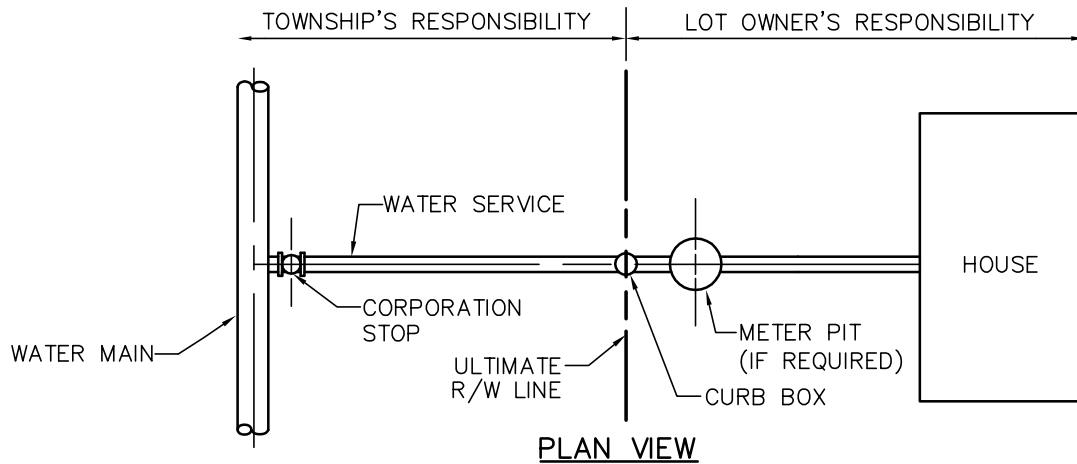
APPENDIX A  
**PLUMSTEAD TOWNSHIP**  
**PUBLIC WATER SYSTEM**  
**STANDARD CONSTRUCTION SPECIFICATIONS**

**SECTION IX**  
**STANDARD DETAIL DRAWINGS**

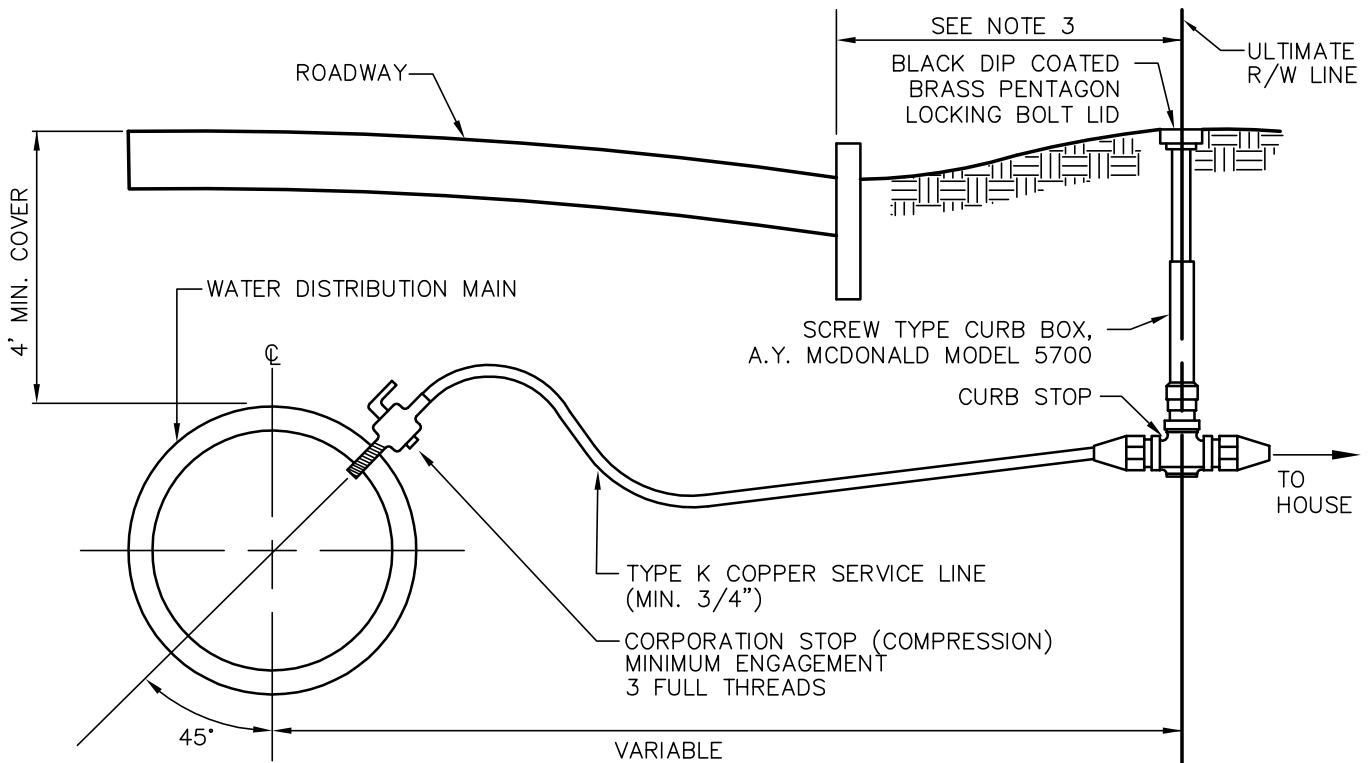
Revised: June 2026

<b><u>Drawing No.</u></b>	<b><u>Name</u></b>
Water-1	Standard Service Connection
Water-2	Curb Box
Water-3	Fire Hydrant
Water-4	Valve Box Installation (Screw Type)
Water-5	Air Release and/or Vacuum Valve(s) in Manhole
Water-6	Thrust Block (1-4 of 4)
Water-7	Water Pipe Embedment
Water-8	Typical Concrete Encasement
Water-9	Typical Concrete Cradle
Water-10	Temporary Pavement and Trench Restoration for Existing Township Roads and State Highways
Water-11	Township Road Permanent Restoration for Water Main
Water-12	State Highway Permanent Restoration for Water Main
Water-13	Unpaved Areas Restoration for Water Main
Water-14	Water Meter Installation
Water-15	Water Meter Pit for ¾" or 1" Meter
Water-16	Water Meter Pit for 1½" or 2" Meter

Water-17	Standard Water Meter Pit for Domestic Services > 1½”
Water-18	Water Meter Pit for Combination Meters > 2”
Water-19	Fire Line Not Metered Installation – Domestic Service & Residential Sprinkler System
Water-20	Surface Blow-Off
Water-21	Water Service Abandonment for ¾”– 2” Services
Water-22	Abandonment of Water Main or Services > 2”
Water-22	Valve and Hydrant Abandonment
Water-24	Water Service and Sewer Lateral Common Trench
Water-25	Automatic Flusher



**PLAN VIEW**



**SECTION VIEW**

**NOTES:**

1. ALL WATER SERVICE TAPS TO BE PERFORMED BY AN APPROVED CONTRACTOR.
2. DO NOT PLACE CURB BOX IN PAVED AREAS.
3. WHERE SIDEWALK PARALLELS ROADWAY, THE CURB BOX SHALL BE PLACED BETWEEN THE CURB AND SIDEWALK. ALL OTHER LOCATIONS, CURB BOX TO BE PLACED WHERE DIRECTED BY TOWNSHIP.
4. CUSTOMER IS RESPONSIBLE FOR MAINTENANCE OF ALL SERVICE PIPING AND PLUMBING BEYOND THE CURB STOP.
5. PROVIDE COMPRESSION FITTINGS ON CURB AND CORPORATION STOP.
6. NOTIFY TOWNSHIP WHEN WATER SERVICE IS READY FOR INSPECTION AND TESTING. DO NOT BACKFILL TRENCH UNTIL INSPECTION IS COMPLETE.
7. PIPE SHALL BE CONTINUOUS FROM CORPORATION STOP TO CURB STOP AND FROM CURB STOP TO DWELLING WITH NO JOINT.



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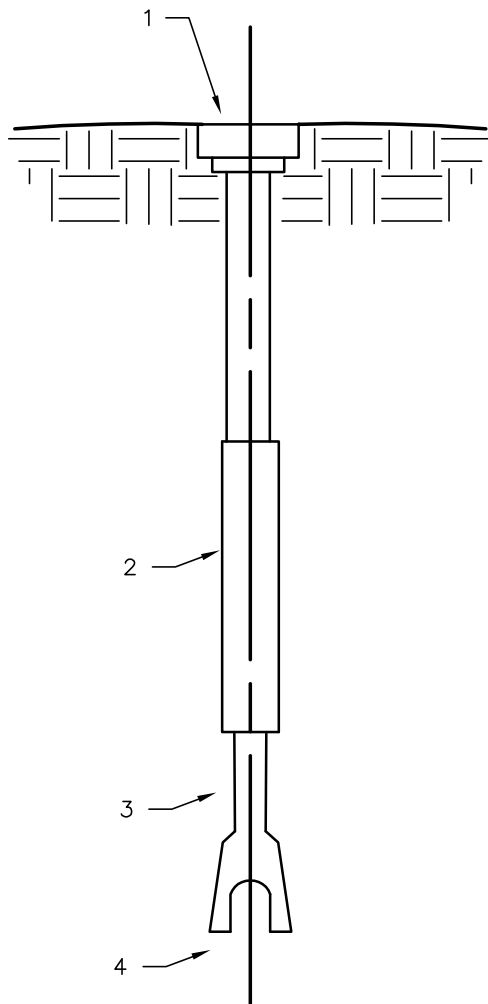
**PLUMSTEAD TOWNSHIP**

**WATER-1**

**STANDARD SERVICE CONNECTION**

DATE:  
JUNE 28, 2023

SCALE:  
NOT TO SCALE



ITEM	DESCRIPTION
1	AYM "WATER" LID, BLACK DIP COATED, BRASS PENTAGON LOCKING BOLT LID
2	A.Y. MCDONALD MODEL 5700 SCREW (BUFFALO) STYLE DESIGN, CAST IRON CONSTRUCTION
3	AYM 5660SSA/5665SS 1/2"/5/8" STAINLESS STEEL ROD
4	AYM 5660SS/5665SS STAINLESS COTTER PIN

**NOTES:**

1. DO NOT PLACE CURB BOX IN PAVED AREAS.
2. WHERE SIDEWALK PARALLELS ROADWAY, THE CURB BOX SHALL BE PLACED BETWEEN THE CURB AND SIDEWALK. ALL OTHER LOCATIONS, CURB BOX TO BE PLACED WHERE DIRECTED BY TOWNSHIP.
3. PROVIDE COMPRESSION FITTINGS ON CURB STOP.
4. SCREW TYPE CURB BOX, MCDONALD MODEL 5700 ONLY. NO "OR EQUAL" PERMITTED.



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**PLUMSTEAD TOWNSHIP**

**WATER-2**

**CURB BOX**

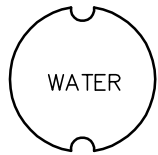
DATE:

JUNE 28, 2023

SCALE:

NOT TO SCALE





COVER DETAIL

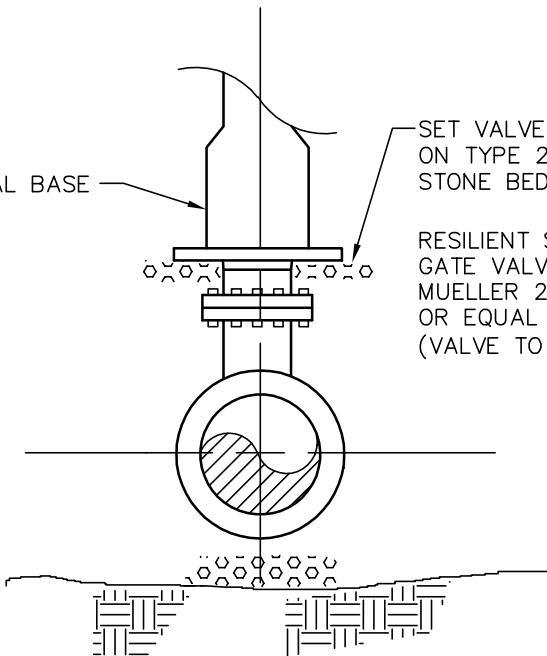
BUFFALO TYPE 3 PIECE 5 1/4" CAST IRON- SCREW TYPE VALVE BOX

CAST IRON LID

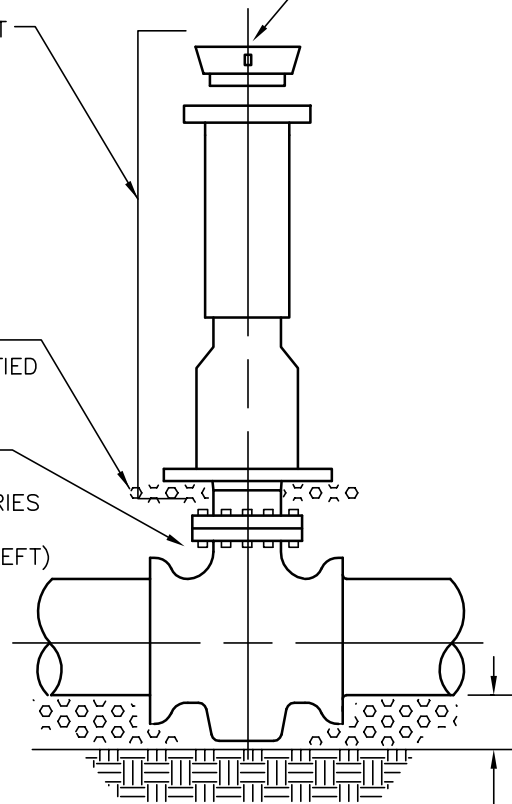
OVAL BASE

SET VALVE BOX ON TYPE 2A MODIFIED STONE BEDDING

RESILIENT SEAT, GATE VALVE  
MUELLER 2360 SERIES  
OR EQUAL  
(VALVE TO OPEN LEFT)



END VIEW



6" OF COMPACTED  
TYPE 2A  
COARSE AGGREGATE

ELEVATION



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**PLUMSTEAD TOWNSHIP**

**WATER-4**

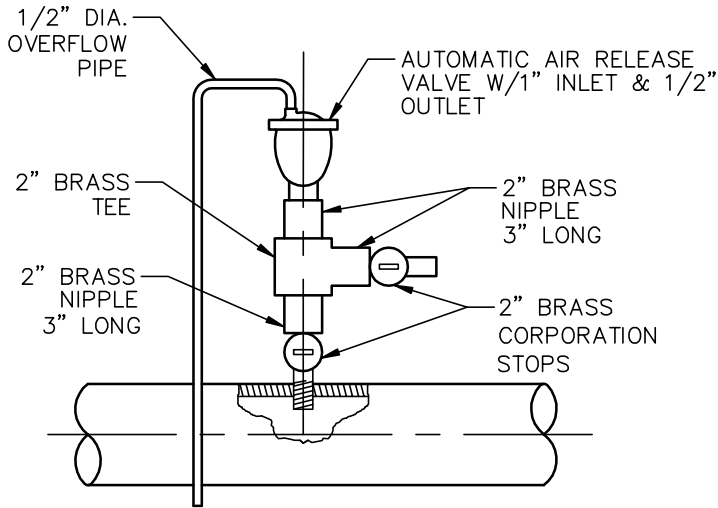
**VALVE BOX INSTALATION  
(SCREW TYPE)**

DATE:

JUNE 28, 2023

SCALE:

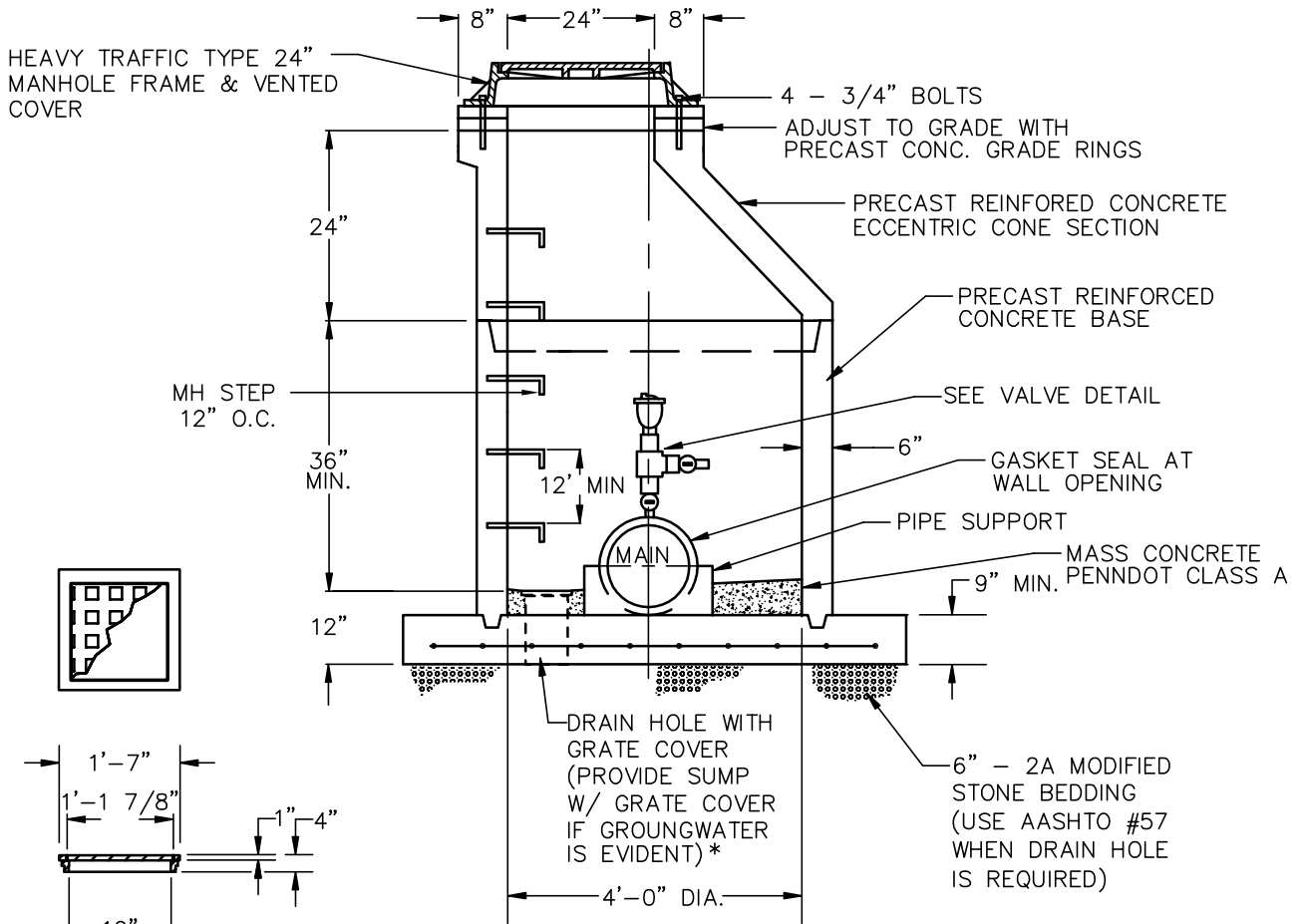
NOT TO SCALE



**VALVE DETAIL**

**NOTES:**

1. MANHOLE CONSTRUCTION TO CONFORM TO ASTM C-478. CONCRETE COMPRESSIVE STRENGTH TO BE 4000 PSI.
2. MANHOLE TO HAVE EXTERIOR COATED WITH TWO COATS OF COAL TAR EPOXY, KOPPERS 300-M OR EQUAL.
3. INSTALL DOUBLE RING PREFORMED PLASTIC SEALING COMPOUND BETWEEN ALL SECTIONS AND UNDER FRAME.
4. MANHOLE FRAME SHALL BE BOLTED TO THE CONE SECTION WITH 4 - 3/4" DIA. S.S. BOLTS WITH WASHERS AND NUTS. BOLTS TO BE 90° ON A 33" DIA. BOLT CIRCLE.



**SUMP FRAME & COVER\***

\*IN AREA OF SUBSTANTIAL GROUND WATER THE ENGINEER MAY CHOOSE TO SEAL THE SUMP HOLE WITH CONCRETE AND ELIMINATE THE GRATE COVER.



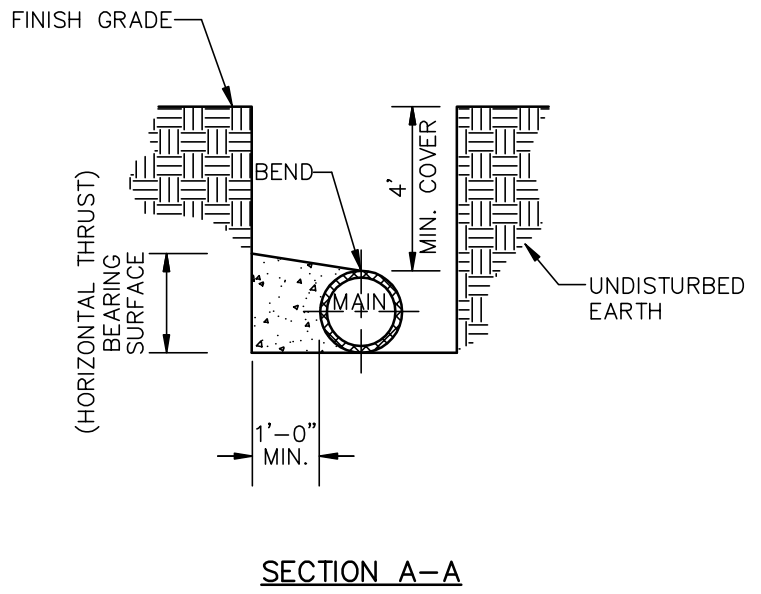
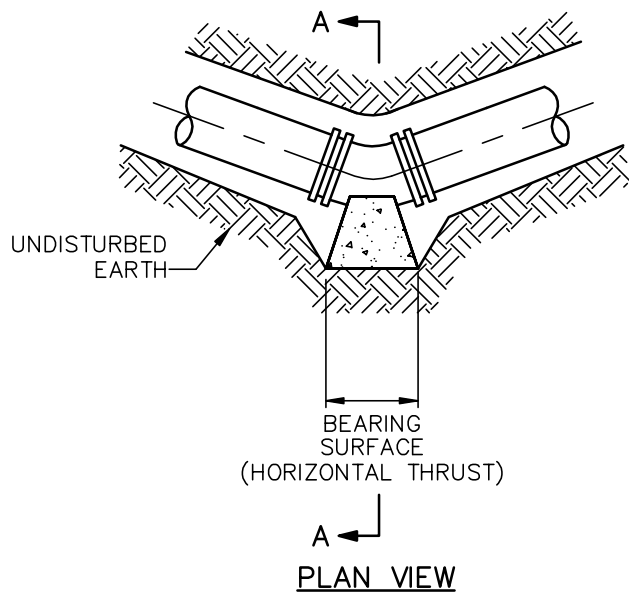
**PLUMSTEAD TOWNSHIP**

**WATER-5**

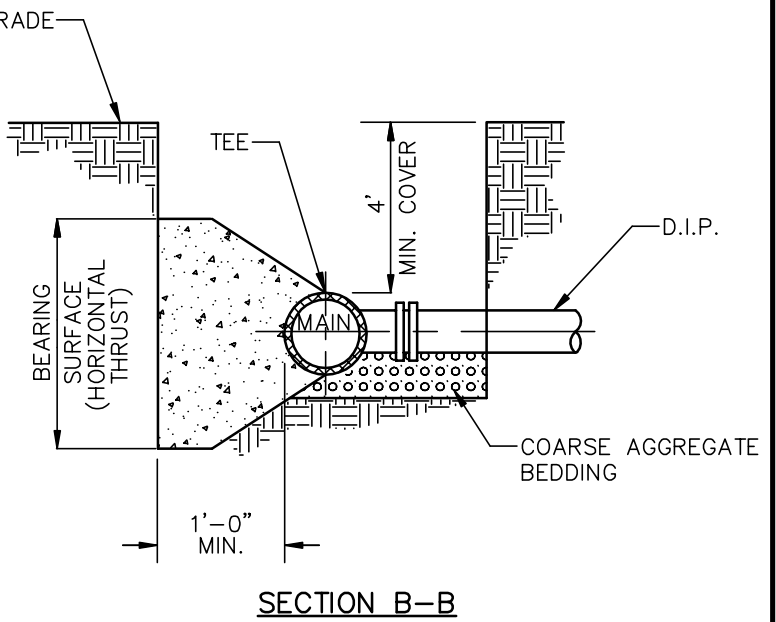
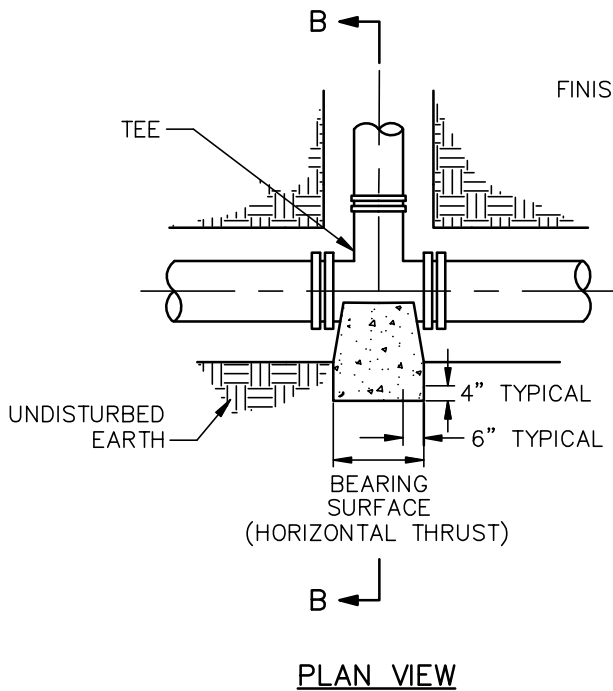
**AIR RELEASE AND/OR VACUUM VALVE(S) IN MANHOLE**

DATE: JUNE 28, 2023

SCALE: NOT TO SCALE



**THRUST BLOCKING AT HORIZONTAL BEND**



**THRUST BLOCKING AT TEE**



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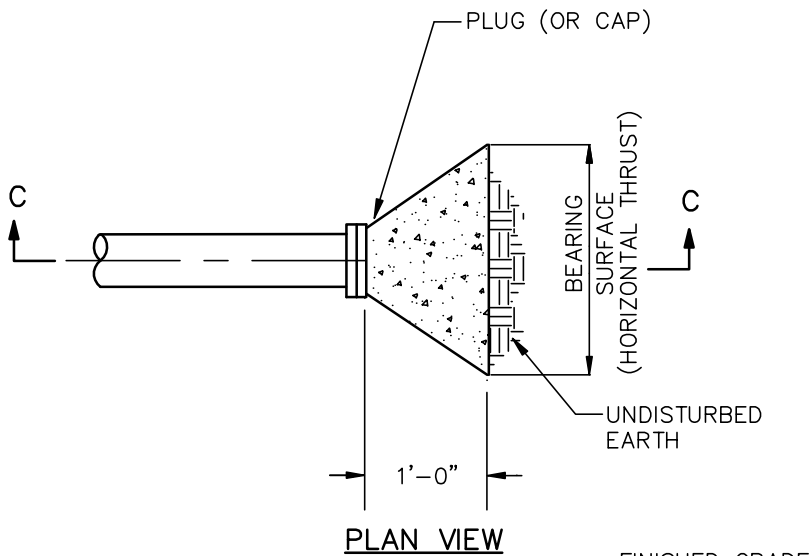
**PLUMSTEAD TOWNSHIP**

**WATER-6**

**THRUST BLOCK  
(1 OF 4)**

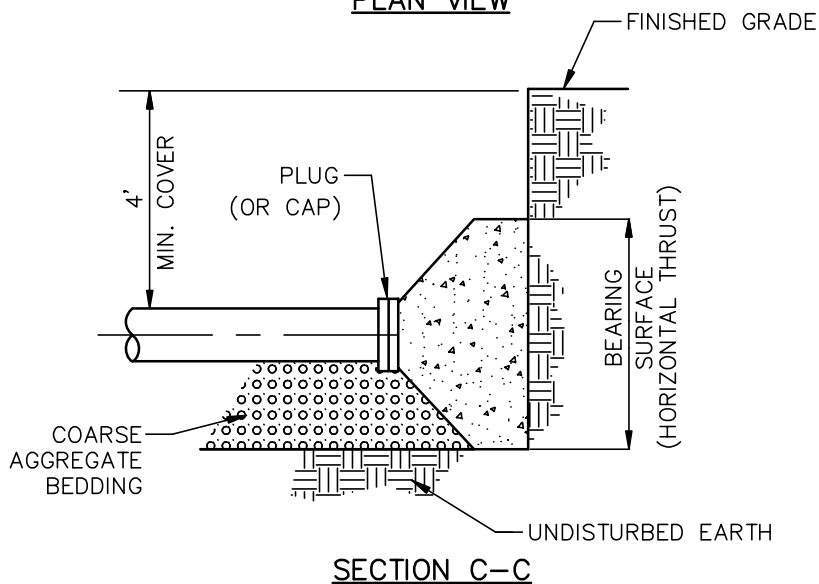
DATE:  
JUNE 28, 2023

SCALE:  
NOT TO SCALE

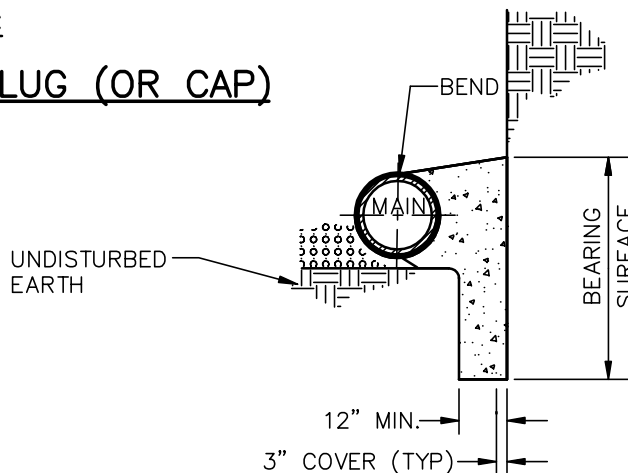


**NOTES:**

1. THE BEARING SURFACE(S) OF THE CONCRETE THRUST BLOCK MUST BEAR AGAINST UNDISTURBED EARTH. THE BEARING AREA PROVIDED MUST BE IN ACCORDANCE WITH THE SCHEDULE ON DETAIL WATER-5 (3 OF 4).
2. THE CONCRETE THRUST BLOCK MUST EXTEND FROM BELL TO BELL ON FITTING BUT MUST NOT INTERFERE WITH ACCESS TO THE FITTING JOINT.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT THE END OF 28 DAYS. (PENNDOT CLASS A)
4. ALL EXPOSED STEEL TO RECEIVE TWO (2) COATS OF BITUMASTIC.
5. MEG-A-LUGS SHALL BE INSTALLED ON ALL FITTINGS.
6. ALL M.J. BOLTS, ETC. TO BE COVERED WITH PLASTIC PRIOR TO CONCRETE PLACEMENT.



**THRUST BLOCKING AT PLUG (OR CAP)**



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**PLUMSTEAD TOWNSHIP**

**WATER-6**

**THRUST BLOCK  
(2 OF 4)**

DATE:  
JUNE 28, 2023

SCALE:  
NOT TO SCALE


BEARING SURFACE REQUIRED – SQ. FT. HORIZONTAL THRUST BLOCKING & VERTICAL THRUST DOWNWARD 100 P.S.I. WORKING PRESSURE																
PIPE SIZE	4", 6" & 8"				10" & 12"				16", 18" & 20"				24"			
TYPE OF BEARING MATERIAL AND ALLOWABLE LOADS	DEGREE OF BEND OR DEFLECTION															
	22.5°	45°	90°	D.E.	22.5°	45°	90°	D.E.	22.5°	45°	90°	D.E.	22.5°	45°	90°	D.E.
SAND 0.75 TON/SQ.FT.	3.4	6.0	11.0	6.4	6.7	12.8	23.4	14.2	14.8	28.8	52.9	34.4	26.1	48.3	89.7	64.0
SOFT CLAY 1 TON/SQ.FT.	2.6	4.6	8.2	4.8	5.0	9.6	17.5	10.7	11.2	21.7	39.7	28.2	19.6	36.3	67.3	48.0
SAND AND GRAVEL 2 TON/SQ.FT.	1.3	2.3	4.1	2.4	2.5	4.8	8.8	5.3	5.6	10.8	20.0	14.1	9.8	13.1	33.6	24.0
CLAY 4 TON/SQ.FT.	1.0	1.2	2.1	1.3	1.3	2.4	4.4	2.7	2.8	5.4	10.0	7.2	4.9	9.1	16.8	12.0
SOFT ROCK 5 TON/SQ.FT.	1.0	1.0	1.6	1.0	1.0	1.9	3.5	2.2	1.6	4.4	8.0	5.7	3.9	7.3	13.5	9.6
ROCK 15 TON/SQ.FT.	1.0	1.0	1.0	0.4	1.0	1.0	1.2	0.8	1.0	1.4	2.6	1.9	1.3	2.4	4.5	3.2
PIPE SIZE	30"				36"				42"				48"			
TYPE OF BEARING MATERIAL AND ALLOWABLE LOADS	DEGREE OF BEND OR DEFLECTION															
	22.5°	45°	90°	D.E.	22.5°	45°	90°	D.E.	22.5°	45°	90°	D.E.	22.5°	45°	90°	D.E.
SAND 0.75 TON/SQ.FT.	40.3	76.5	139	99.1	55.5	107.5	197.5	140.0	74.3	144.7	266.5	188.7	83.2	182.3	336.2	238.0
SOFT CLAY 1 TON/SQ.FT.	30.2	57.4	104.3	74.3	41.6	80.6	148.0	105.0	55.7	108.5	200.0	141.6	70.0	136.7	252.2	178.0
SAND AND GRAVEL 2 TON/SQ.FT.	15.1	28.7	52.1	37.2	20.8	40.3	74.0	52.5	27.9	54.3	100.0	70.8	35.0	68.3	126.1	89.2
CLAY 4 TON/SQ.FT.	7.6	14.6	26.0	18.6	10.4	20.2	37.0	26.3	14.0	27.0	50.0	35.3	17.5	34.2	63.0	44.6
SOFT ROCK 5 TON/SQ.FT.	6.0	11.5	20.9	14.9	8.3	16.1	29.6	21.0	11.2	21.7	40.0	28.3	14.0	27.3	50.4	35.7
ROCK 15 TON/SQ.FT.	2.0	3.8	7.0	5.0	1.4	2.8	5.4	7.0	3.7	7.2	13.3	9.4	4.7	9.1	16.8	12.0

MIN. SQUARE FEET OF BEARING SURFACE REQUIRED FOR HORIZONTAL THRUST BLOCKING AND VERTICAL THRUST DOWNWARD

**NOTES:**

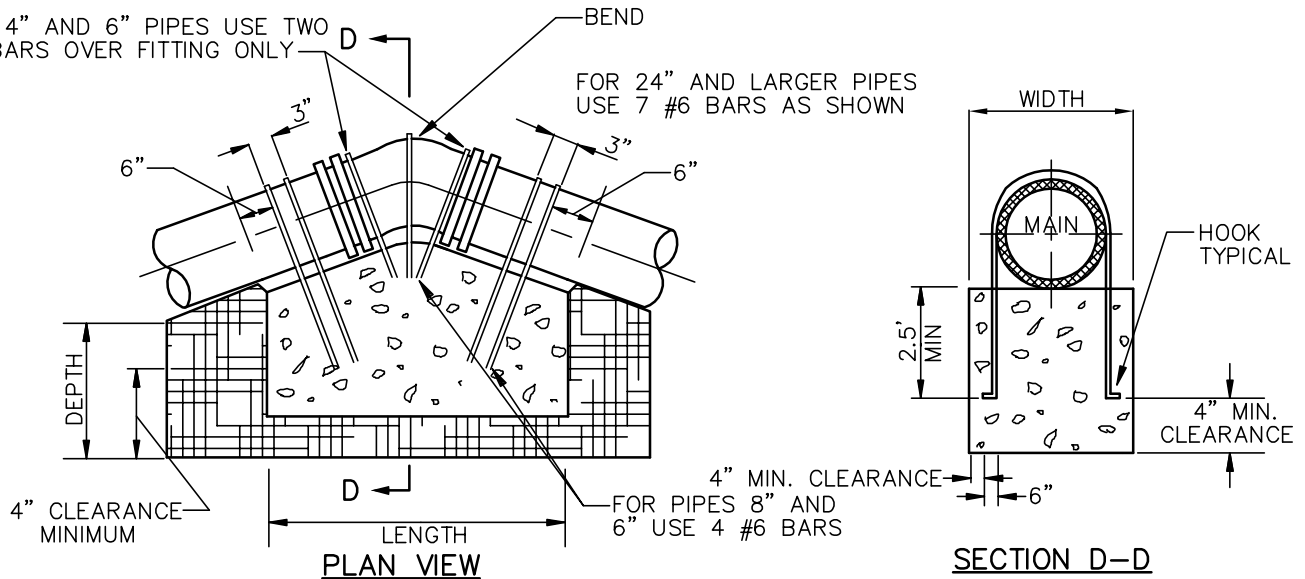
1. THIS CHART HAS BEEN DEVELOPED FOR D.I.P. WITH 100 P.S.I. WORKING PRESSURE, A 50% SURGE PRESSURE INCREASE, AND A 1.5 SAFETY FACTOR. CASE SPECIFIC CALCULATIONS ARE REQUIRED WHERE WORKING PRESSURE EXCEEDS 100 P.S.I. AND/OR SURGE PRESSURE EXCEEDS 50% WORKING PRESSURE.
2. D.E. = DEAD END
3. MINIMUM THRUST BLOCK AREA IS 1.0 SQ. FOOT.
4. MEG-A-LUG RESTRAINT SHALL BE INSTALLED AT ALL FITTINGS.

**HORIZONTAL & VERTICAL DOWNWARD THRUST  
BLOCK BEARING SURFACE AREA SCHEDULE**

	<b>PLUMSTEAD TOWNSHIP</b>	<b>WATER-6</b>	<b>THRUST BLOCK (3 OF 4)</b>
	DATE: JUNE 28, 2023	SCALE: NOT TO SCALE	

FOR 4" AND 6" PIPES USE TWO #4 BARS OVER FITTING ONLY

FOR 24" AND LARGER PIPES USE 7 #6 BARS AS SHOWN



### TYPICAL SECTION VERTICAL THRUST UPWARD

**NOTES:**

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3300 P.S.I. AT THE END OF 28 DAYS. (PENNDOT CLASS A)
2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS. (ASTM GRADE 60) AND SHALL BE U-SHAPED AROUND WATER MAIN.
3. ALL FITTINGS AND JOINTS SHALL BE COVERED WITH POLYETHELENE FILM BEFORE PLACING CONCRETE.
4. ALL EXPOSED STEEL SHALL BE COVERED WITH 2 COATS OF BITUUMASTIC, KOPPER 300M OR APPROVED EQUAL.

CONCRETE BLOCKING DIMENSIONS, VERTICAL THRUST UPWARD 100 P.S.I. WORKING PRESSURE									
PIPE SIZES	LENGTH			WIDTH			DEPTH		
	11.25'	22.25'	45'	11.25'	22.25'	45'	11.25'	22.25'	45'
4", 6" & 8"	3.5'	4.5'	6'	3'	3'	3'	2'	3'	4'
10" & 12"	4.5'	7'	8'	3'	3'	4'	3'	4'	5'
14" & 16"	4.5'	7'	9'	4.5'	4.5'	4.5'	3.5'	4'	5'
18" & 20"	5'	7'	11.5'	5'	5'	5'	4'	5'	5.5'
24"	5'	9'	12.5'	5'	5'	6'	4.5'	5'	6'
30"	5.5'	9'	13.5'	5.5'	6'	7'	5.5'	6'	7'
36"	6.5'	11'	14'	5.5'	6.5'	7'	6'	6.5'	7'
42"	9'	13.5'	15'	6'	7'	7'	6'	7'	7'
48"	10'	14'	16'	6'	7'	7'	6'	7'	7'

**NOTES:**

1. THIS CHART HAS BEEN DEVELOPED FOR D.I.P. WITH A 100 PSI WORKING PRESSURE. A 50% SURGE PRESSURE INCREASE AND 1.5 SAFETY FACTOR. CASE SPECIFIC CALCULATIONS ARE REQUIRED WHERE THE WORKING PRESSURE EXCEEDS 100 PSI AND/OR SURGE PRESSURE EXCEEDS 50% OF WORKING PRESSURE.
2. FOR VERTICAL THRUST DOWNWARD, SEE DETAIL WATER-5 (3 OF 4).
3. INSTALL MEG-A-LUGS ON ALL FITTINGS - AUTHORITY MAY ACCEPT MEG-A-LUG IN LIEU OF VERTICAL THRUST BLOCKS IN SOME CASES.

### VERTICAL THRUST BLOCK BEARING ARRANGEMENT AND DIMENSIONS SCHEDULE



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**PLUMSTEAD TOWNSHIP**

**WATER-6**

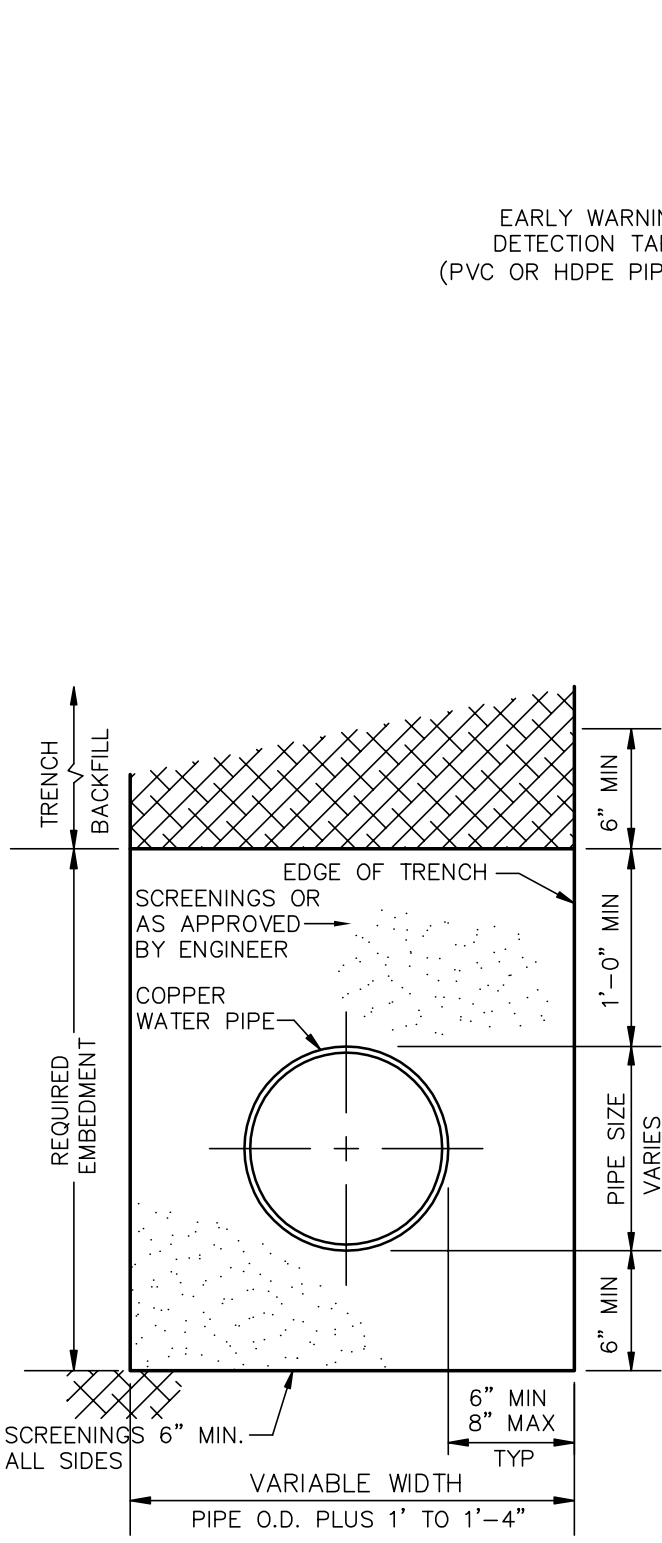
**THRUST BLOCK  
(4 OF 4)**

DATE:

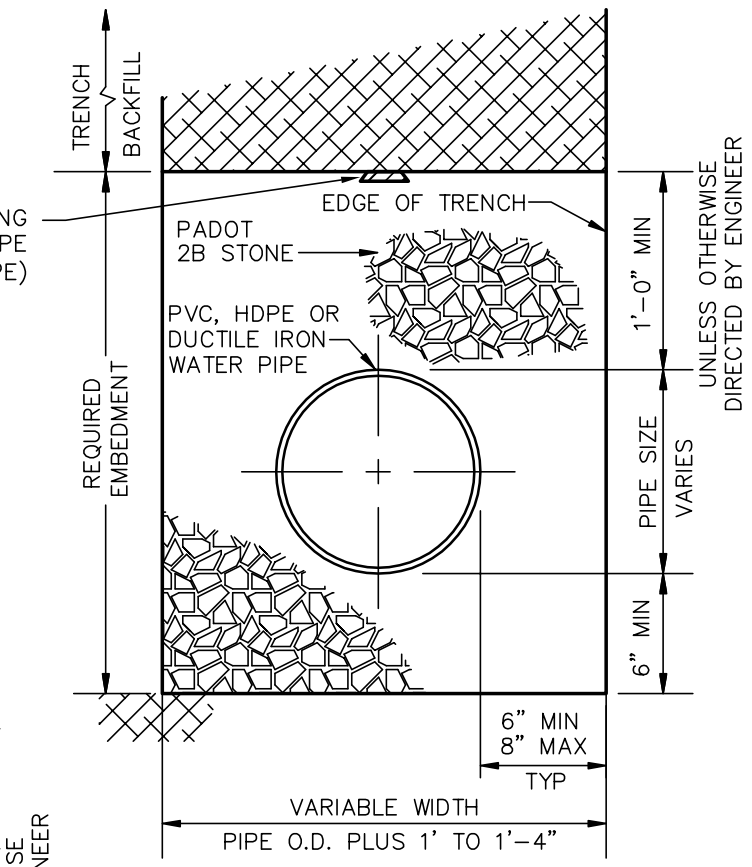
JUNE 28, 2023

SCALE:

NOT TO SCALE



**COPPER PIPE**



**PVC, HDPE OR DUCTILE IRON PIPE**

**NOTES:**

1. 2A COARSE AGGREGATE MAY BE USED FOR EMBEDMENT OF DUCTILE IRON PIPE.
2. FOR UTILITY TRENCH RESTORATION DETAILS REFER TO RESTORATION STANDARD DETAILS.
3. IF PIPE IS DIRECTIONALLY DRILLED PVC OR HDPE, TRACING WIRE IS REQUIRED.



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**PLUMSTEAD TOWNSHIP**

**WATER-7**

**WATER PIPE EMBEDMENT**

DATE:

JUNE 28, 2023

SCALE:

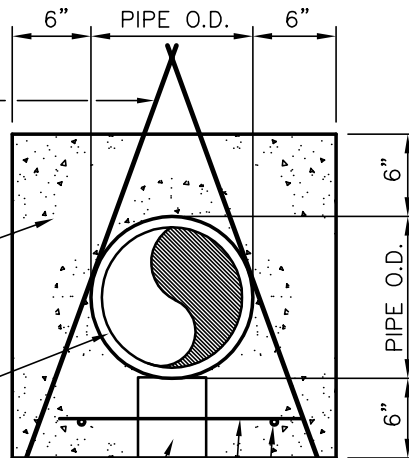
NOT TO SCALE

SECURE PIPE USING  
#5 STEEL REINFORCING  
RODS W/ WIRE, SPACED  
AS REQUIRED TO PREVENT  
PIPE FLOATATION

3,000 P.S.I. CONCRETE  
(PENNDOT CLASS 'A')  
OR HIGH EARLY STRENGTH  
CONCRETE AT CONTRACTOR'S  
DISCRETION

WATER  
PIPE

PROVIDE MASONRY SUPPORT  
AS REQUIRED TO PREVENT  
PIPE MOVEMENT



#4 CONTINUOUS  
#4 @ 1'-6"

**NOTE:**

PROVIDE REINFORCEMENT AT UTILITY CROSSINGS ONLY.



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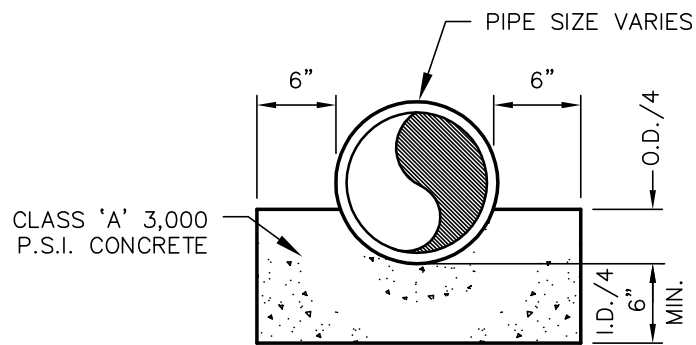
**PLUMSTEAD TOWNSHIP**

**WATER-8**

**TYPICAL CONCRETE  
ENCASEMENT**

DATE:  
JUNE 28, 2023

SCALE:  
NOT TO SCALE



**NOTES:**

1. O.D. – OUTSIDE DIAMETER
2. I.D. – INSIDE DIAMETER



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**PLUMSTEAD TOWNSHIP**

**WATER-9**

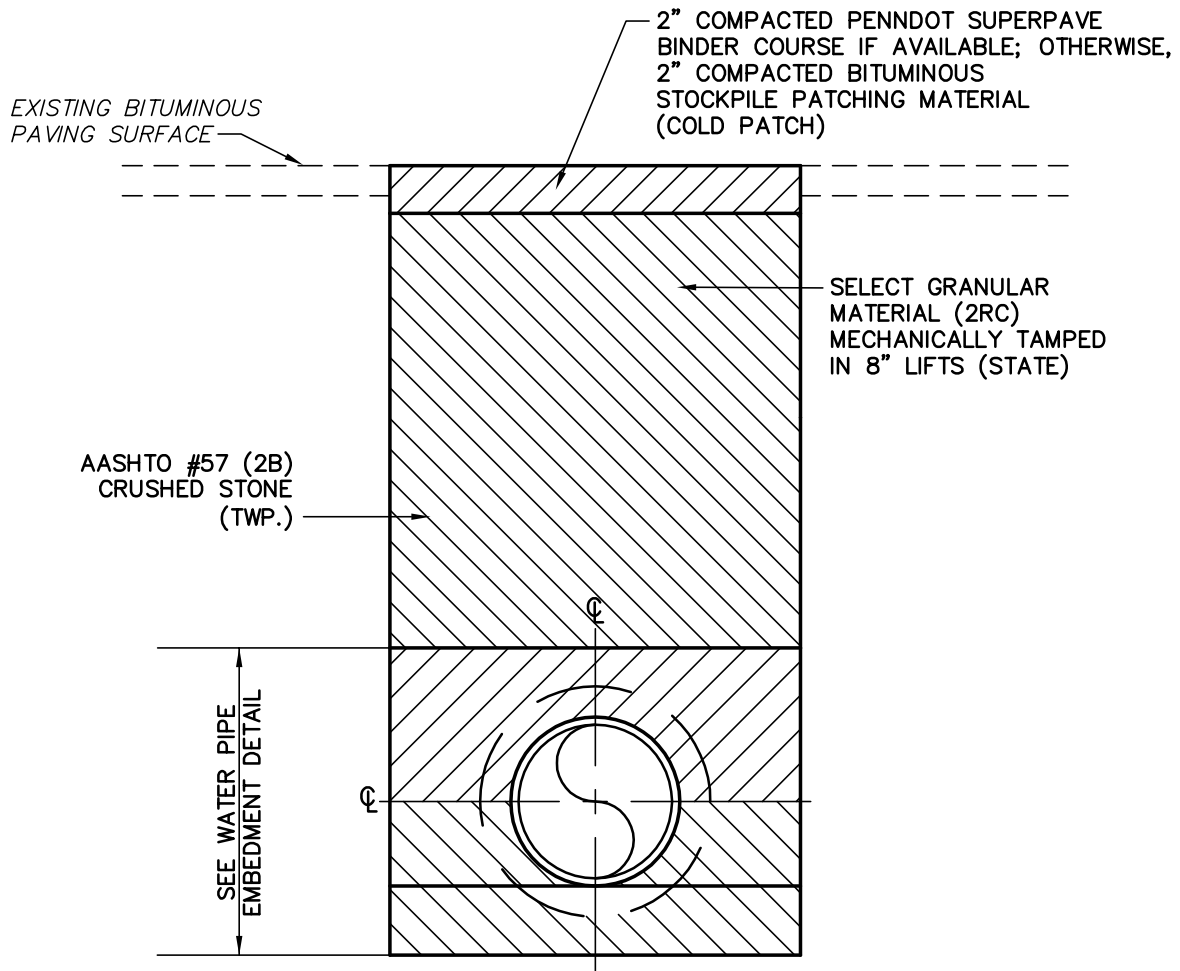
**TYPICAL CONCRETE  
CRADLE**

DATE:

JUNE 28, 2023

SCALE:

NOT TO SCALE



**NOTES:**

1. PLUMSTEAD TOWNSHIP ROAD OPENING PERMIT REQUIRED FOR ALL EXCAVATIONS IN TOWNSHIP ROADS.
2. SPECIAL CONDITIONS OF TOWNSHIP ROAD OPENING PERMITS OR PENNDOT HIGHWAY OCCUPANCY PERMIT MAY SUPERSEDE THIS DETAIL.
3. CONTRACTOR TO MAINTAIN TEMPORARY PAVING UNTIL PERMANENT PAVING IS INSTALLED.



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ENGINEERING & CONSULTING SERVICES

**PLUMSTEAD TOWNSHIP**

**WATER-10**

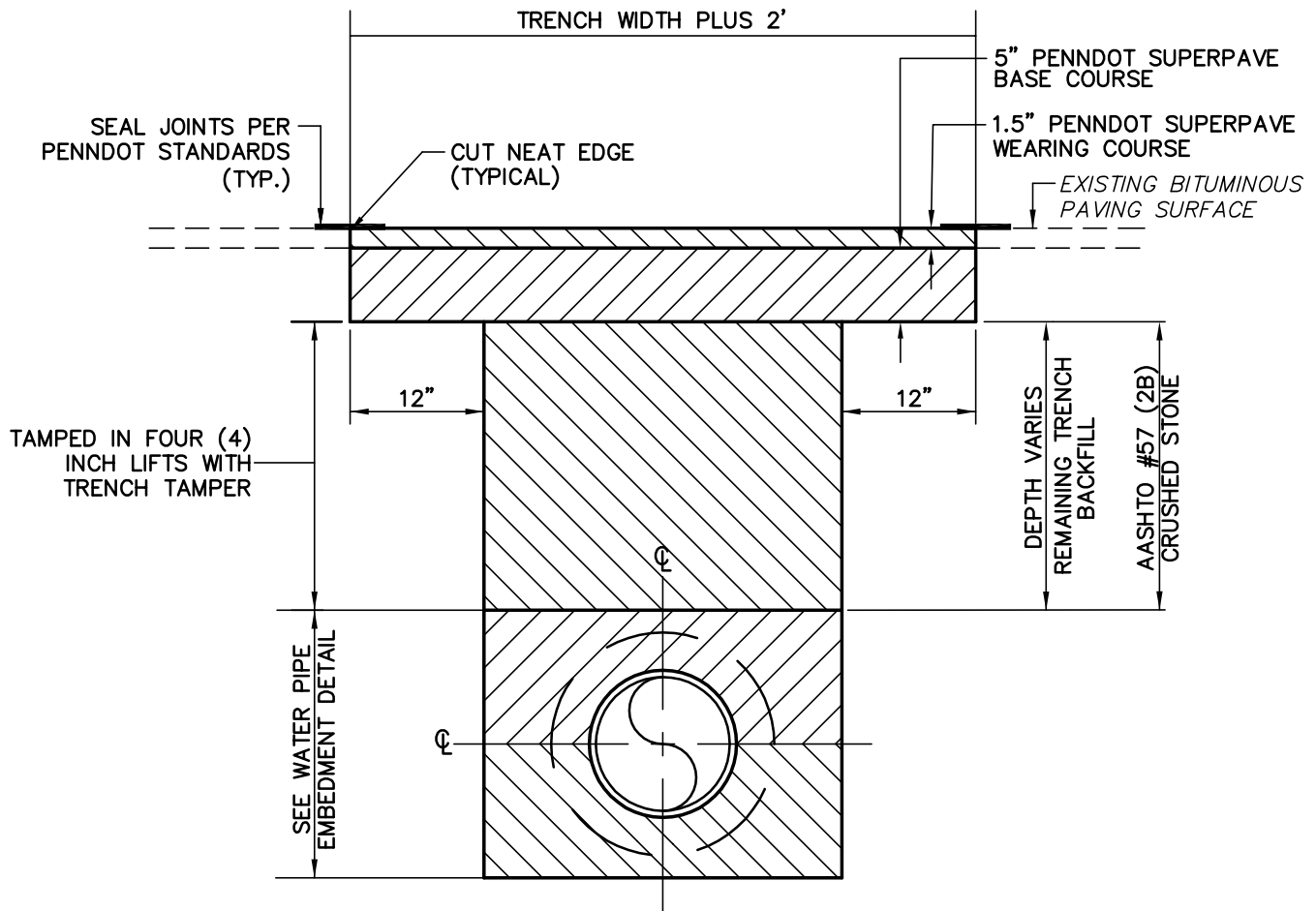
**TEMPORARY PAVEMENT AND  
TRENCH RESTORATION FOR  
EXISTING TOWNSHIP ROADS  
AND STATE HIGHWAYS**

DATE:

JUNE 28, 2023

SCALE:

NOT TO SCALE



**NOTES:**

1. WORK ZONE TRAFFIC CONTROL SHALL CONFORM WITH STATE PUBLICATION 230 (67 PA CODE, CHAPTER 213).
2. IF TRAFFIC DETOURS ARE APPROVED BY ENGINEER, CONTRACTOR SHALL FOLLOW GUIDELINES SET FORTH IN PLUMSTEAD TOWNSHIP ROAD CLOSING SPECIFICATIONS.
3. TRENCH SHALL BE TEMPORARILY RESTORED PER DETAIL WATER-9 AND ALLOWED TO SETTLE 90 DAYS PRIOR TO PERMANENT RESTORATION. PERMANENT RESTORATION OF TRENCHES SHALL BE COMPLETED ONLY AFTER APPROVAL BY THE TOWNSHIP.
4. PLUMSTEAD TOWNSHIP ROAD OPENING PERMIT REQUIRED FOR ALL EXCAVATION IN TOWNSHIP ROADS. CONDITIONS OF PERMIT MAY SUPERSEDE THIS DETAIL.



GILMORE & ASSOCIATES, INC.  
ENGINEERING & CONSULTING SERVICES

**PLUMSTEAD TOWNSHIP**

**WATER-11**

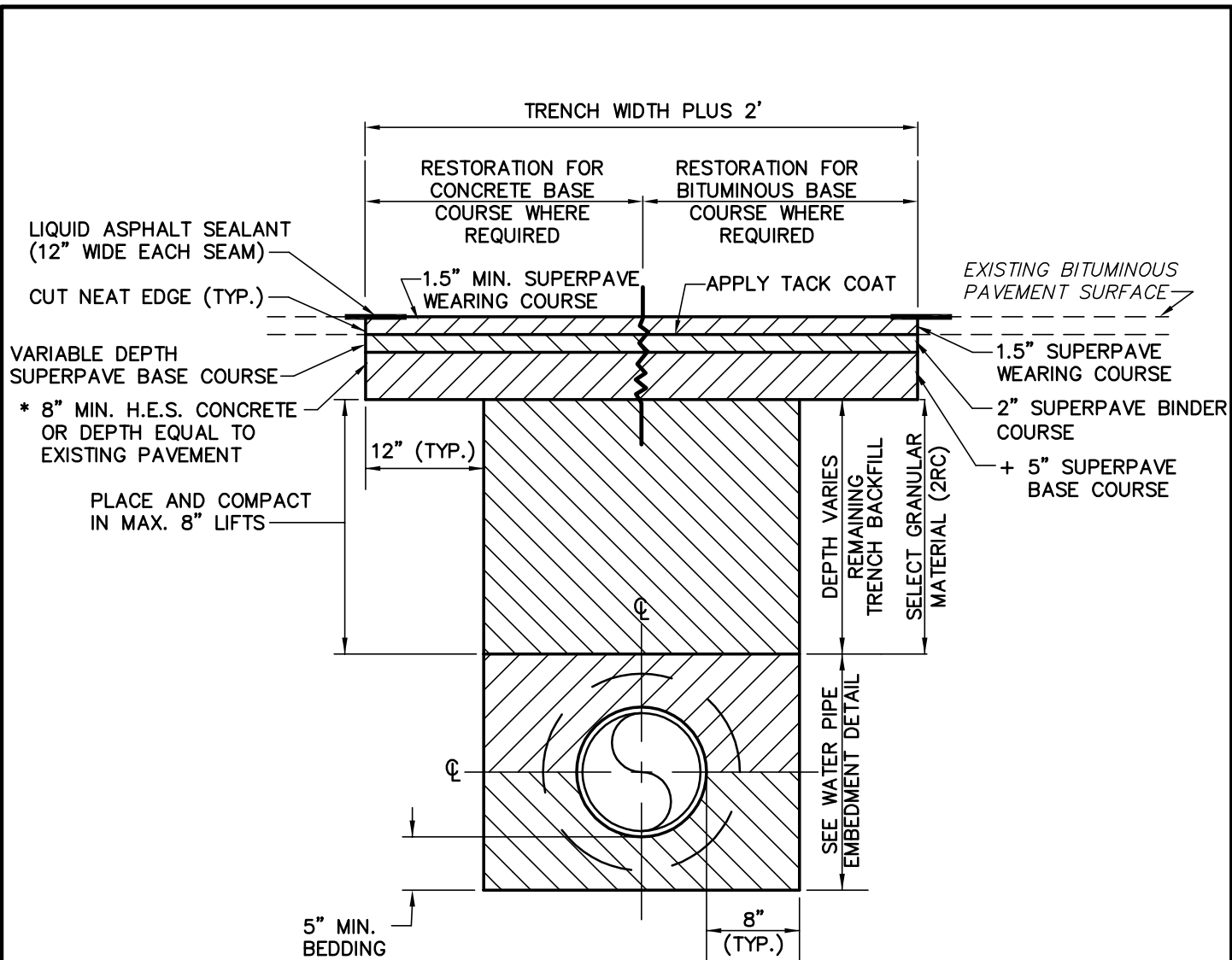
**TOWNSHIP ROAD  
PERMANENT RESTORATION  
FOR WATER MAIN**

DATE:

JUNE 28, 2023

SCALE:

NOT TO SCALE



\* FOR RESTORATION BEFORE 90 DAYS AFTER COMPLETING BACKFILL.  
 + FOR RESTORATION AFTER 90 DAYS AFTER COMPLETING BACKFILL.

**NOTES:**

1. TACK COAT MATERIAL SHALL BE APPLIED THE ENTIRE SURFACE PRIOR TO APPLICATION OF THE WEARING SURFACE UNLESS WAIVED BY THE STATE HIGHWAY ENGINEER.
2. ALL MATERIAL AND CONSTRUCTION METHODS SHALL COMPLY WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FORM 408.
3. SPECIAL CONDITIONS OF PENNDOT HIGHWAY OCCUPANCY PERMIT MAY SUPERSEDE THIS DETAIL.



GILMORE & ASSOCIATES, INC.  
 ENGINEERING & CONSULTING SERVICES

**PLUMSTEAD TOWNSHIP**

**WATER-12**

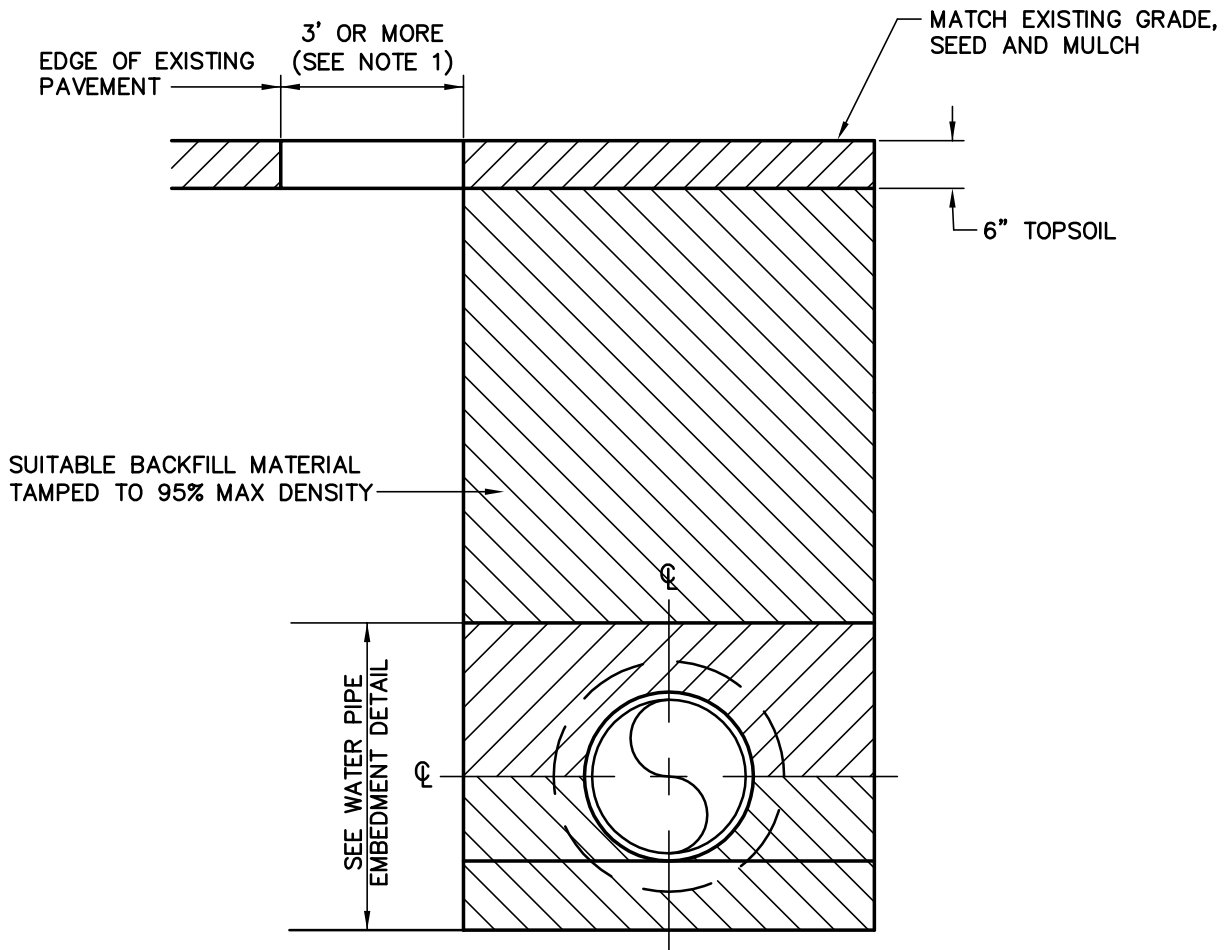
**STATE HIGHWAY  
 PERMANENT RESTORATION  
 FOR WATER MAIN**

DATE:

JUNE 28, 2023

SCALE:

NOT TO SCALE



**NOTE:**

TRENCH OPENINGS LESS THAN 3' FROM THE EDGE OF AN EXISTING PAVED SURFACE SHALL BE BACKFILLED WITH 2B COARSE AGGREGATE MECHANICALLY TAMPED IN 8" LAYERS.



GILMORE & ASSOCIATES, INC.  
ENGINEERING & CONSULTING SERVICES

**PLUMSTEAD TOWNSHIP**

**WATER-13**

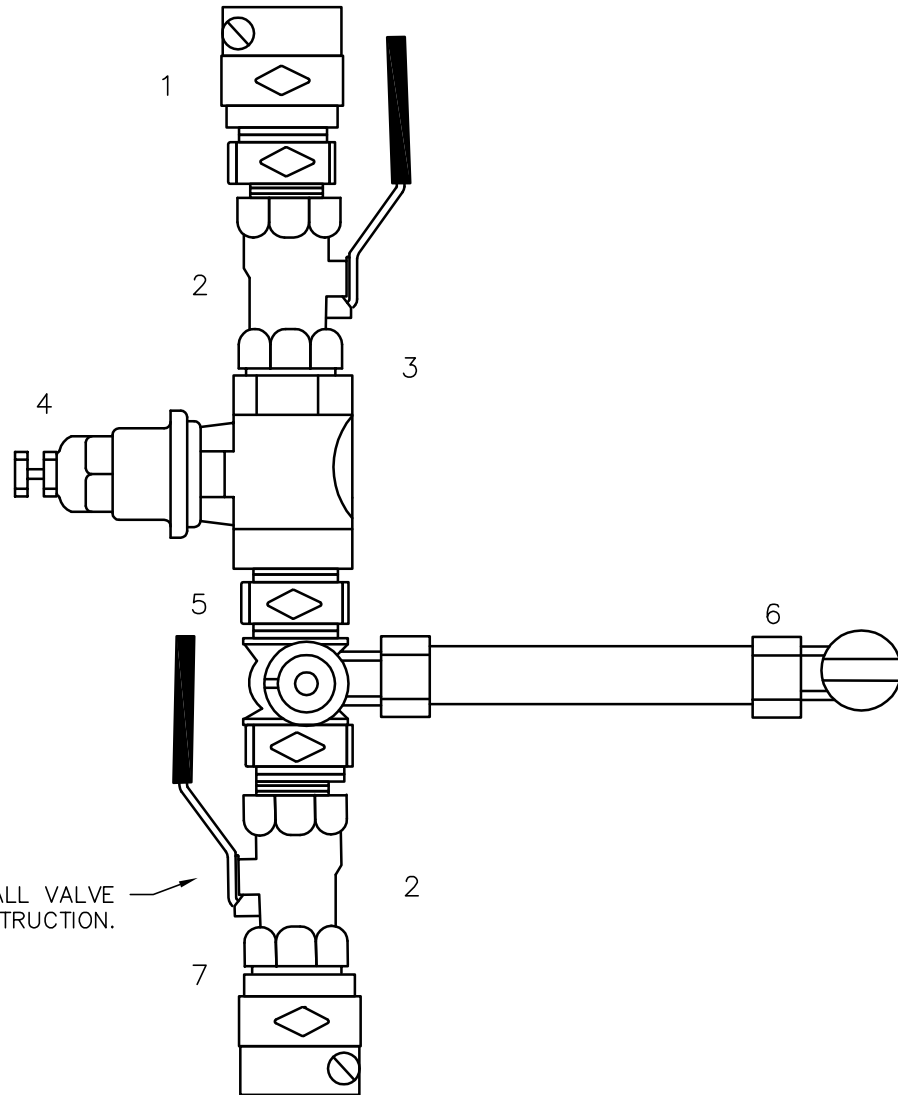
**UNPAVED AREAS  
RESTORATION FOR  
WATER MAIN**

DATE:

JUNE 28, 2023

SCALE:

NOT TO SCALE



ADD SECOND BALL VALVE  
AT CONSTRUCTION.

ITEM	DESCRIPTION
1	AYM 74753Q 3/4 CTS MCQUIK X MIP BRASS COUPLING
2	AYM 72032T 3/4 TXT FORGED BRASS FP BALL VALVE W/ LEVER HANDLE
3	3/4 X CLOSE STD BRASS NIPPLE
4	WILKINS NR3XL 3/4 FIP UNION x FIP BRONZE 15-75PSI SET AT 50 PSI PRESSURE REGULATOR VALVE
5	AYM 747541P 3/4 MIP x K THREAD ADAPTOR
6	AYM #741-2-QF 5/8x3/4 MTR- K-STYLE INSETTER SPBV x FPDCK KxK
7	AYM 747541Q 3/4 ADAPTER CTS x FEM K THREAD

**NOTES:**

1. LOCATION OF METER & REGISTER TO BE APPROVED BY TOWNSHIP.
2. TOWNSHIP WILL INSTALL  $\frac{5}{8}$  x  $\frac{3}{4}$  NEPTUNE T-10 METER OR APPROVED EQUAL AND REMOTE READING REGISTER.
3. ALL WORK WILL BE SECURELY FASTENED TO SUPPORT THE METER.
4. PLUMSTEAD IS ONLY RESPONSIBLE FOR THE METER, ALL OTHER PIPES, FITTINGS, COUPLINGS, FLANGES, (ETC.) IN THE METER AREA OR PIT ARE THE RESPONSIBILITY OF THE PROPERTY OWNER.



GILMORE & ASSOCIATES, INC.  
ENGINEERING & CONSULTING SERVICES

**PLUMSTEAD TOWNSHIP**

**WATER-14**

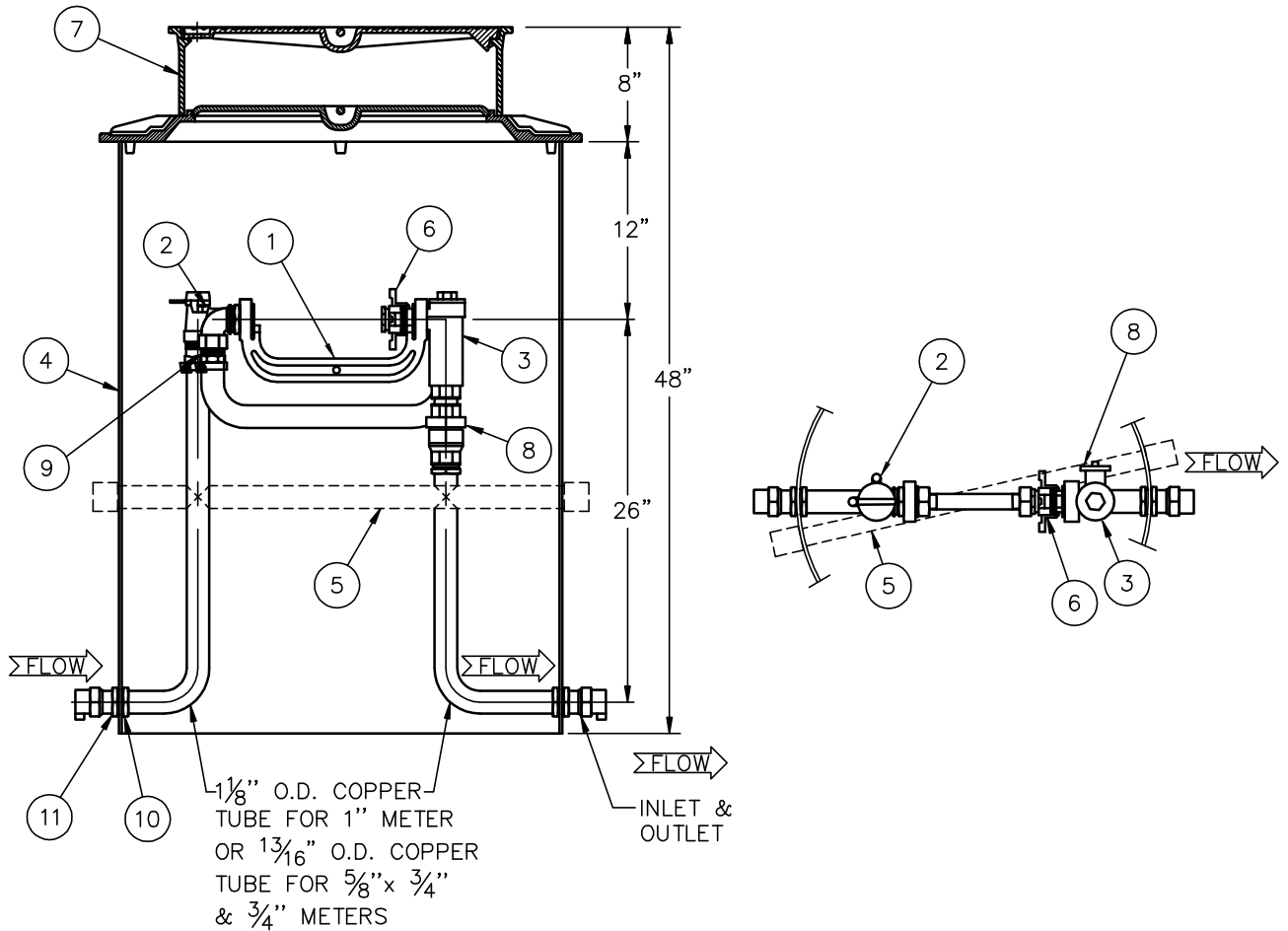
**WATER METER  
INSTALLATION**

DATE:

JUNE 28, 2023

SCALE:

NOT TO SCALE



**ELEVATION**

**NOTES:**

1. CATALOG NUMBERS SHOWN ARE AS MANUFACTURED BY THE FORD METER BOX COMPANY, INC. UNLESS NOTED OTHERWISE. X'S IN CATALOG NUMBERS SHOULD BE REPLACED PER THE FORD CATALOG TO INDICATE THE TYPE OF INLET AND/OR OUTLET REQUIRED.
2. MARK INLET, OUTLET & DIRECTION OF FLOW ON UNIT.
3. ALL BRASS OF 85-5-5-5 RED BRASS AWWA C800-89 ASTM B62-93.
4. PRV ON INSIDE PLUMBING. REQUIRED ON ALL SERVICES.

ITEM	DESCRIPTION	QTY	CATALOG NO.		
			5/8" X 3/4"	3/4"	1"
1	YOKE BAR	1	Y502	Y503	Y504
2	ANGLE BALL VALVE	1	BAX3-323W		BAX3-444W
3	ANGLE DUAL CHK VALVE	1	HHCA9X-323	HHCA9X-444	
4	24" DIA. METER PIT MINIMUM	1	N/A		
5	1/2" PVC SUPPORT STRAPS	1	N/A		
6	EXPANSION CONNECTION	1	EC-23	EC-4	
7	MONITOR COVER W/INNER LID*	1	MC-24-MB-T		
8	BALL VALVE	1	BXX-333-HB-34	BXX-444-HB-34	
9	SOLDER BUSHING	2	CXX-23	CXX-44	
10	INLET & OUTLET	2	CXX-23	CXX-44	
11	LOCK NUT	2	YLN-23	YLN-4	

\*ORDERED SEPARATELY. METER PIT COVER SHALL INCLUDE 2" PRE-DRILLED HOLE FOR E-READING OF METER, AND INCLUDE "WATER METER" LETTERING.



GILMORE & ASSOCIATES, INC.  
ENGINEERING & CONSULTING SERVICES

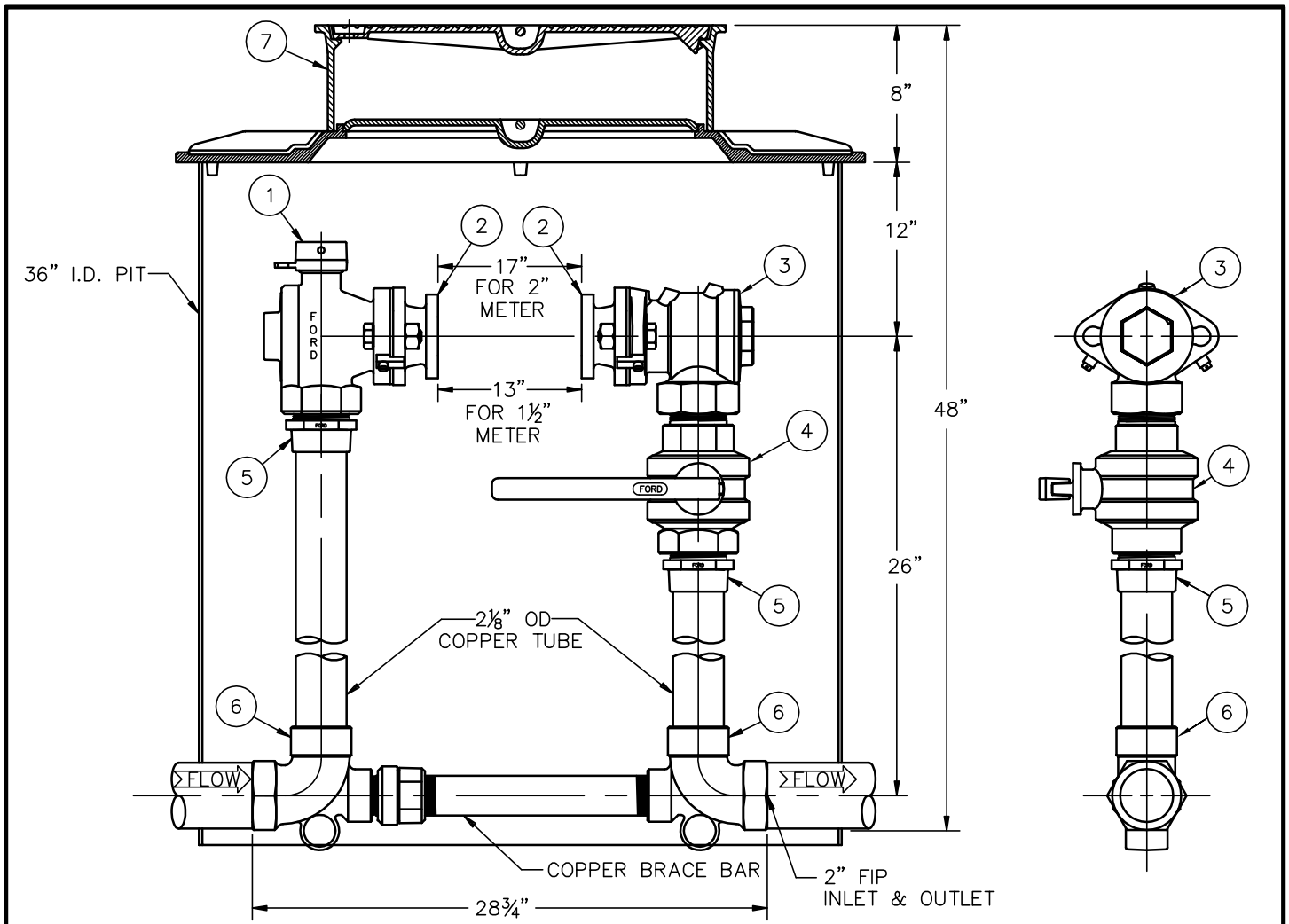
**PLUMSTEAD TOWNSHIP**

**WATER-15**

**WATER METER PIT  
FOR 3/4" OR 1" METER**

DATE:  
JUNE 28 2023

SCALE:  
NOT TO SCALE



**ELEVATION**


**NOTES:**

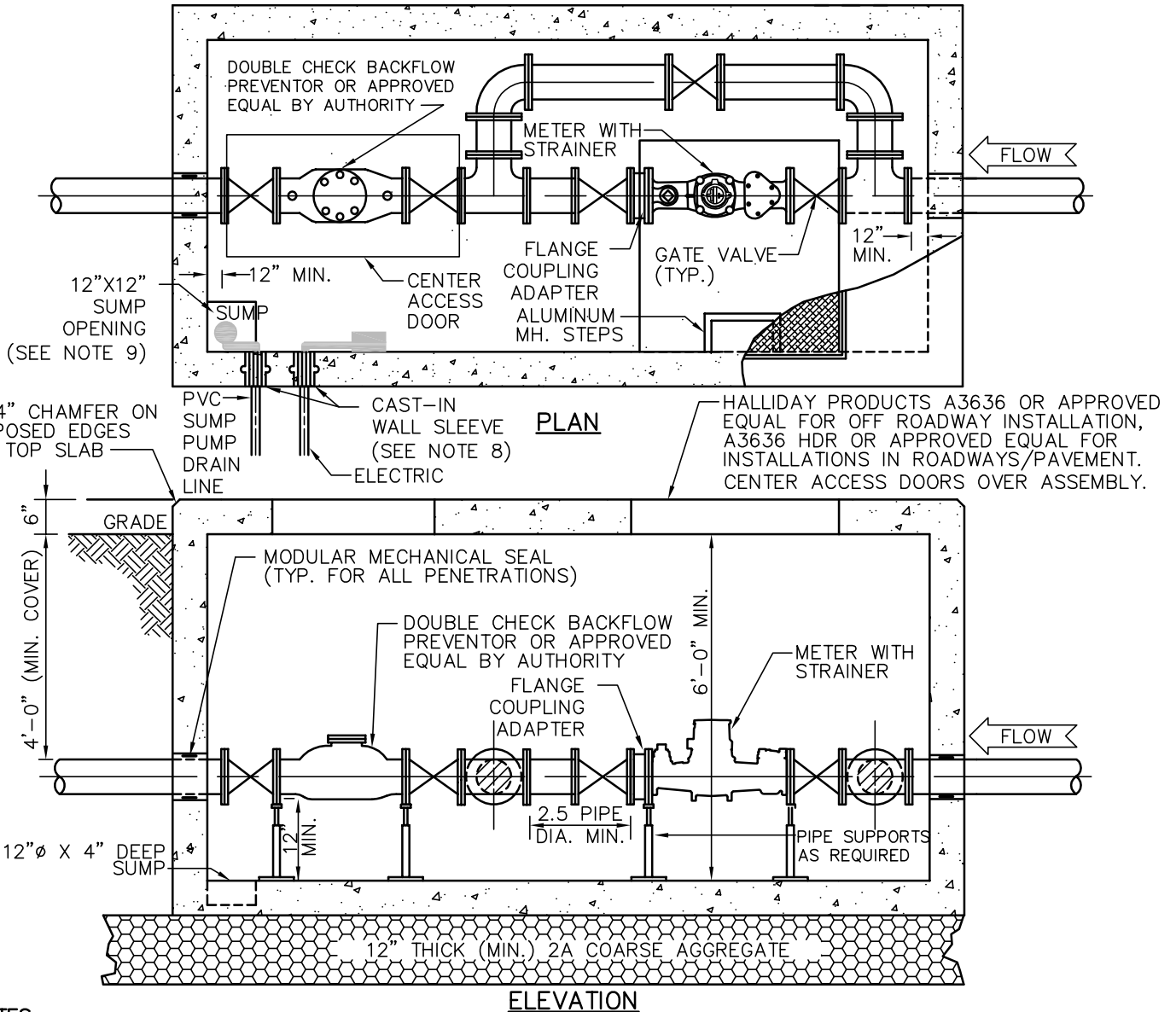
1. CATALOG NUMBERS SHOWN ARE AS MANUFACTURED BY THE FORD METER BOX COMPANY, INC. 'X' IN CATALOG NUMBERS SHOULD BE REPLACED PER THE FORD CATALOG TO INDICATE THE TYPE OF INLET AND OR OUTLET REQUIRED.
2. PROVIDE TWO (2) COPPER OR BRASS REDUCERS AT INLET AND OUTLET FOR 1-1/2" SERVICE.
3. METER PIT SHALL BE 36" I.D. PVC SONO-LOC AS MANUFACTURED BY SONOCO PRODUCTS, OR APPROVED EQUAL.
4. METER PIT COVER SHALL BE MONITOR COVER WITH INNER LID, MC-36-MB-T, AS MANUFACTURED BY THE FORD METER BOX COMPANY, INC. OR APPROVED EQUAL.
5. ALL BRASS OF 85-5-5-5 RED BRASS AWWA C800-89 ASTM B62-93.
6. PRV ON INSIDE PLUMBING. REQUIRED ON ALL SERVICES.

7. ALL METER FLANGES DRILLED FOR 1 1/2" & 2" METERS.
8. 12" OF 2B CLEAN STONE TO BE INSTALLED BELOW AND AROUND PIT.

ITEM	DESCRIPTION	QTY.	CAT. NO.
1	ANGLE BALL VALVE	1	BFA3-777W-MSB
2	METER ADAPTERS/PAIR**	1	A67
3	ANGLE DUAL CHK VALVE <small>ASSB 1024</small>	1	HFFA3X-777-MSB
4	BALL VALVE	1	BXX-777-HB-67
5	SOLDER BUSHING	2	CS8-77
6	90° BEND	2	
7	MONITOR COVER W/ INNER LID*	1	MC-36-MB-T

\*ORDERED SEPARATELY. COVER SHALL INCLUDE 2" PREDRILLED HOLE FOR E-READING OF METER, AND INCLUDE "WATER METER" LETTERING.  
 \*\*METER ADAPTERS AS NECESSARY TO ADAPT 2" SERVICE TO 1-1/2" METER.

 <small>GILMORE &amp; ASSOCIATES, INC. ENGINEERING &amp; CONSULTING SERVICES</small>	<b>PLUMSTEAD TOWNSHIP</b>	<b>WATER-16</b>	<b>WATER METER PIT FOR 1 1/2" OR 2" METER</b>
	DATE: JUNE 28, 2023		SCALE: NOT TO SCALE



**NOTES:**

1. SIZE OF PIPING SAME AS BACKFLOW PREVENTER.
2. RPZ BACKFLOW ASSEMBLY MAY BE REQUIRED FOR CERTAIN APPLICATIONS. RPZ TO BE INSTALLED ON SERVICE LINE WHERE SERVICE LINE ENTERS BUILDING, BEFORE ANY CONNECTIONS.
3. ONLY BACKFLOW DEVICE APPROVED FOR PIT INSTALLATION IS A DOUBLE CHECK BACKFLOW ASSEMBLY. RPZ BACKFLOW ASSEMBLIES CAN NOT BE INSTALLED IN PIT.
4. FOR TAPS > 1", PROVIDE TAPPING SADDLE IN ACCORDANCE WITH AUTHORITY SPECIFICATIONS.
5. GATE VALVES SHALL BE FULL PORT TYPE.
6. A METER PIT WITH PROPER BACKFLOW ASSEMBLY IS REQUIRED FOR ALL NEW RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL CUSTOMERS.
7. PRV ON INSIDE PLUMBING. REQUIRED ON ALL SERVICES.
8. WALL SLEEVES & LINK SEALS TO BE APPLIED FOR SUMP DRAIN LINE & ELECTRIC LINES.

9. SUMP PUMP TO BE FLOTEC AUTOMATIC SUBMERSIBLE TYPE, SELF-PRIMING 51 GPM FLOW 1/3 HP MOTOR, 1500 RPM, 115 VOLT, 60 H, SINGLE PHASE, 1-1/4" NPT VERTICAL DISCHARGE, OR EQUAL.

METER SIZE	DOUBLE CHECK DETECT. SIZE	WATER METER LAYING LENGTH (METER ONLY)		VAULT SIZE
		C2	T2	
1 1/2"	2 1/2"	13"	13"	4'X10'X6'
2"	2 1/2"	15 1/4"	17"	4'X10'X6'
3"	3"	17"	19"	4'X10'X6'
4"	6"	20"	23"	4'X12'X6'
6"	8"	24"	27"	4'X16'X6'

VAULTS  
A.C. MILLER CONCRETE PRODUCTS CORPORATION  
VAULT SIZES SHOWN ARE INSIDE DIMENSIONS.



**PLUMSTEAD TOWNSHIP**

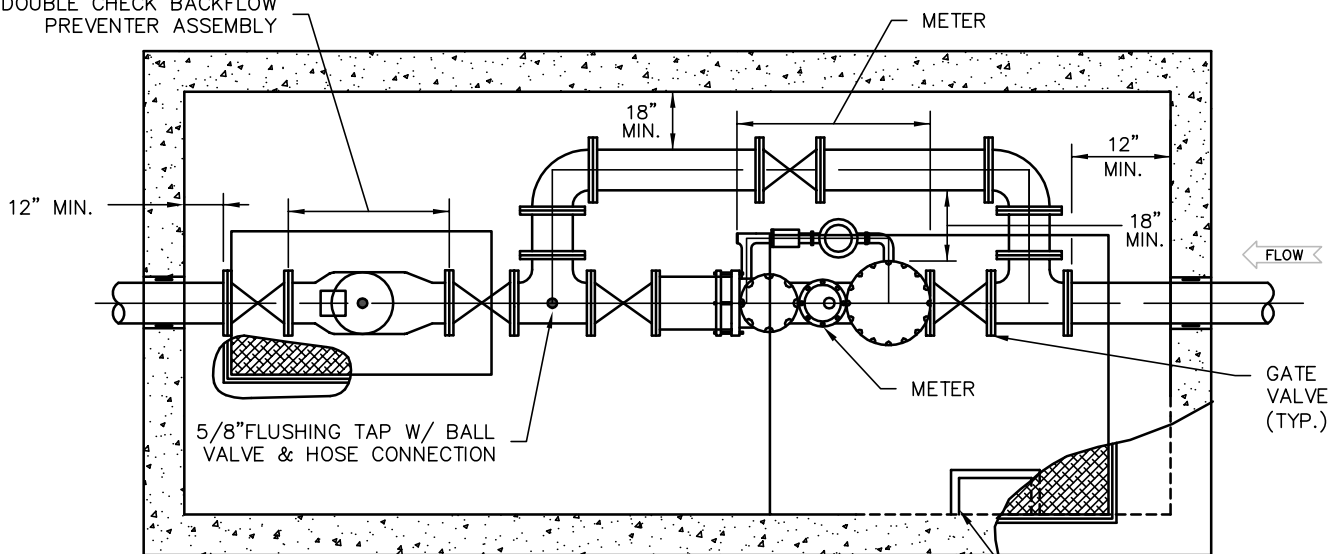
**WATER-17**

**STANDARD WATER METER  
PIT FOR DOMESTIC  
SERVICES > 1 1/2"**

DATE: JUNE 28, 2023

SCALE: NOT TO SCALE

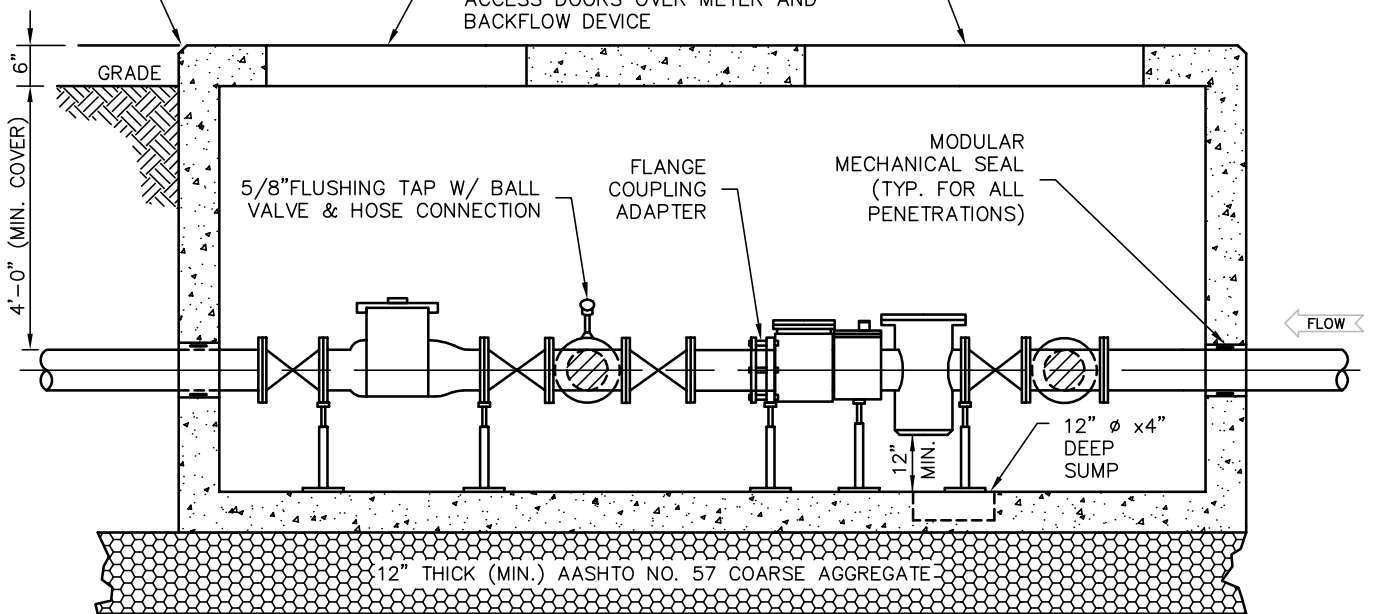
DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY



PLAN

3/4" CHAMFER ON EXPOSED EDGES OF TOP SLAB

HALLIDAY PRODUCTS SERIES H2W ACCESS DOOR OR APPROVED EQUAL. CENTER ACCESS DOORS OVER METER AND BACKFLOW DEVICE



ELEVATION

**NOTES:**

1. METER SHOWN IS THE NEPTUNE PROTECTUS COMBINATION METER.
2. SIZES SHOWN ARE THE MINIMUM INSIDE DIMENSIONS. PIT TO BE SIZED AS REQUIRED TO ACCOMMODATE METER.
3. SIZE OF PIPING SAME AS METER SIZE.
4. ONLY BACKFLOW DEVICE APPROVED FOR PIT INSTALLATION IS DOUBLE CHECK. RPZ BACKFLOW ASSEMBLIES CANNOT BE INSTALLED IN PIT.

COMBINATION METER SIZES	MINIMUM VAULT SIZE W x L x H
3"	6.5'x11'x6'
4"	7.5'x13'x6.5'
6"	8.5'x15.5'x6.5'
8"	9'x17'x6.5'
10"	9.5'x19.5'x7'



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ENGINEERING & CONSULTING SERVICES

**PLUMSTEAD TOWNSHIP**

**WATER-18**

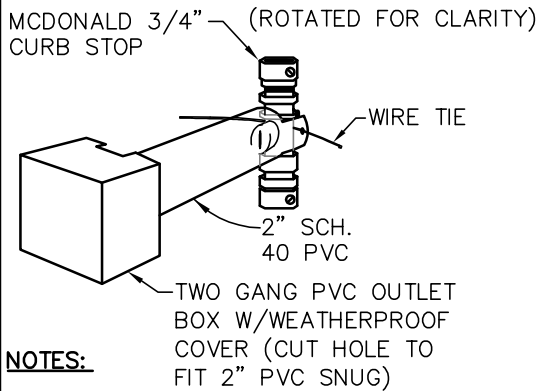
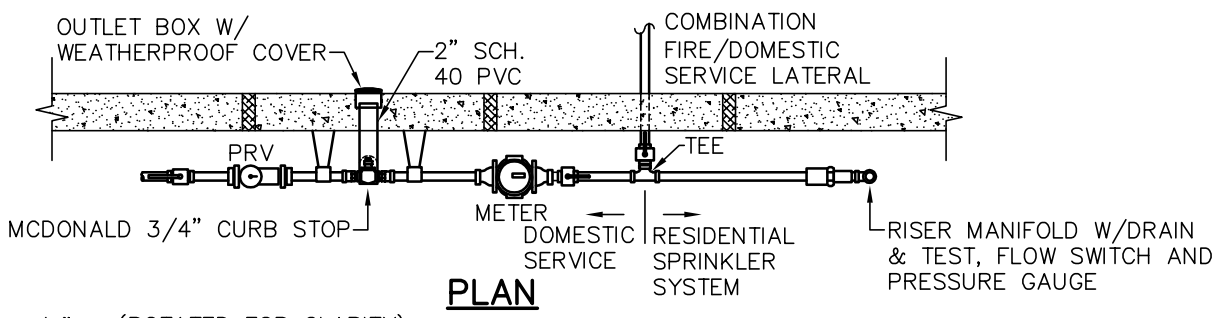
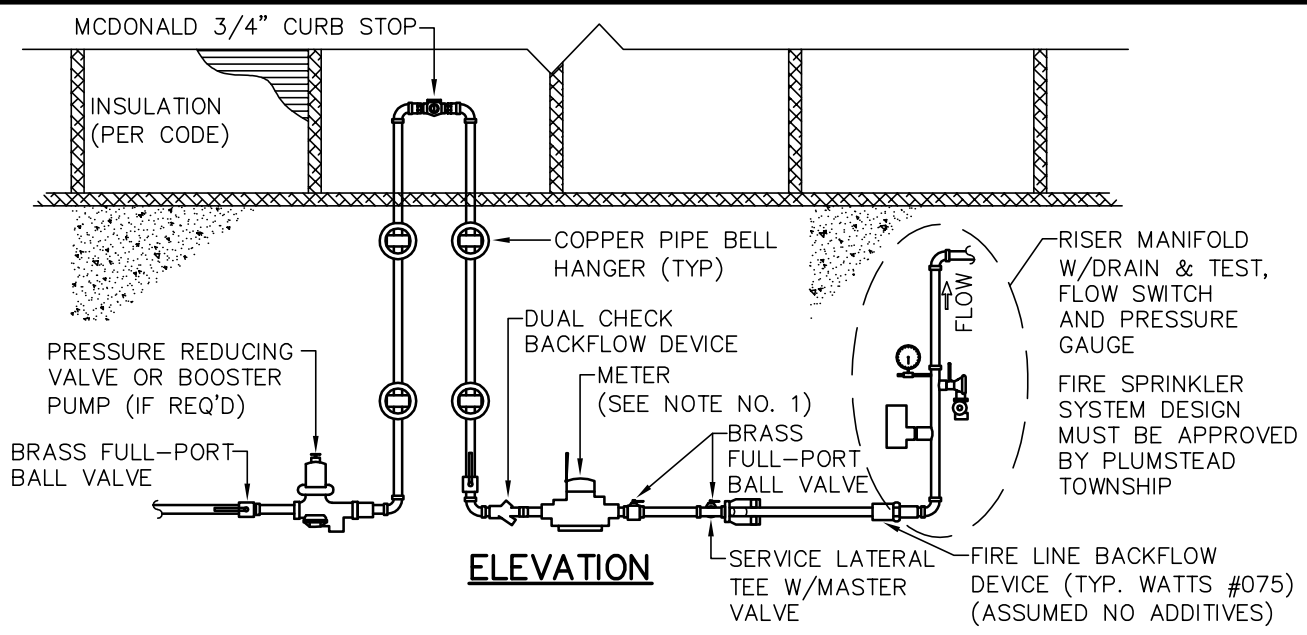
**WATER METER PIT  
FOR COMBINATION  
METERS > 2"**

DATE:

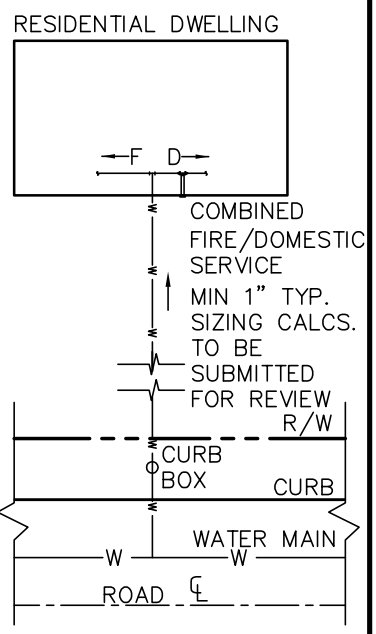
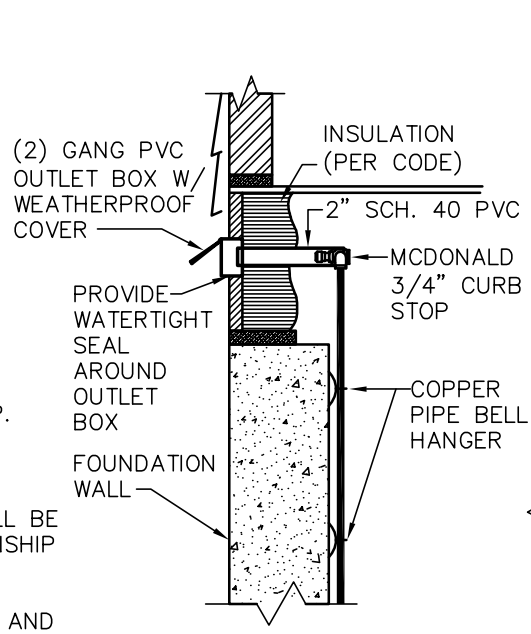
JUNE 28, 2023

SCALE:

NOT TO SCALE



- NOTES:**
- METER(S), DOMESTIC BACKFLOW DEVICE AND PRESSURE RELIEF VALVE SHALL BE PURCHASED FROM PLUMSTEAD TOWNSHIP. MUST BE AT A LOCATION SET INSIDE EXTERIOR WALL A MINIMUM OF 1' TO PREVENT FREEZING.
  - ALL OTHER MATERIALS AND PIPING SHALL BE PROVIDED BY THE CUSTOMER, PER TOWNSHIP SPECIFICATIONS.
  - SPRINKLER SYSTEM DESIGNER SHALL BE RESPONSIBLE TO SIZE SERVICE LATERAL AND SPRINKLER SYSTEM.
  - SPRINKLER SYSTEM BACKFLOW DEVICE SUBJECT TO PLUMSTEAD TOWNSHIP APPROVAL



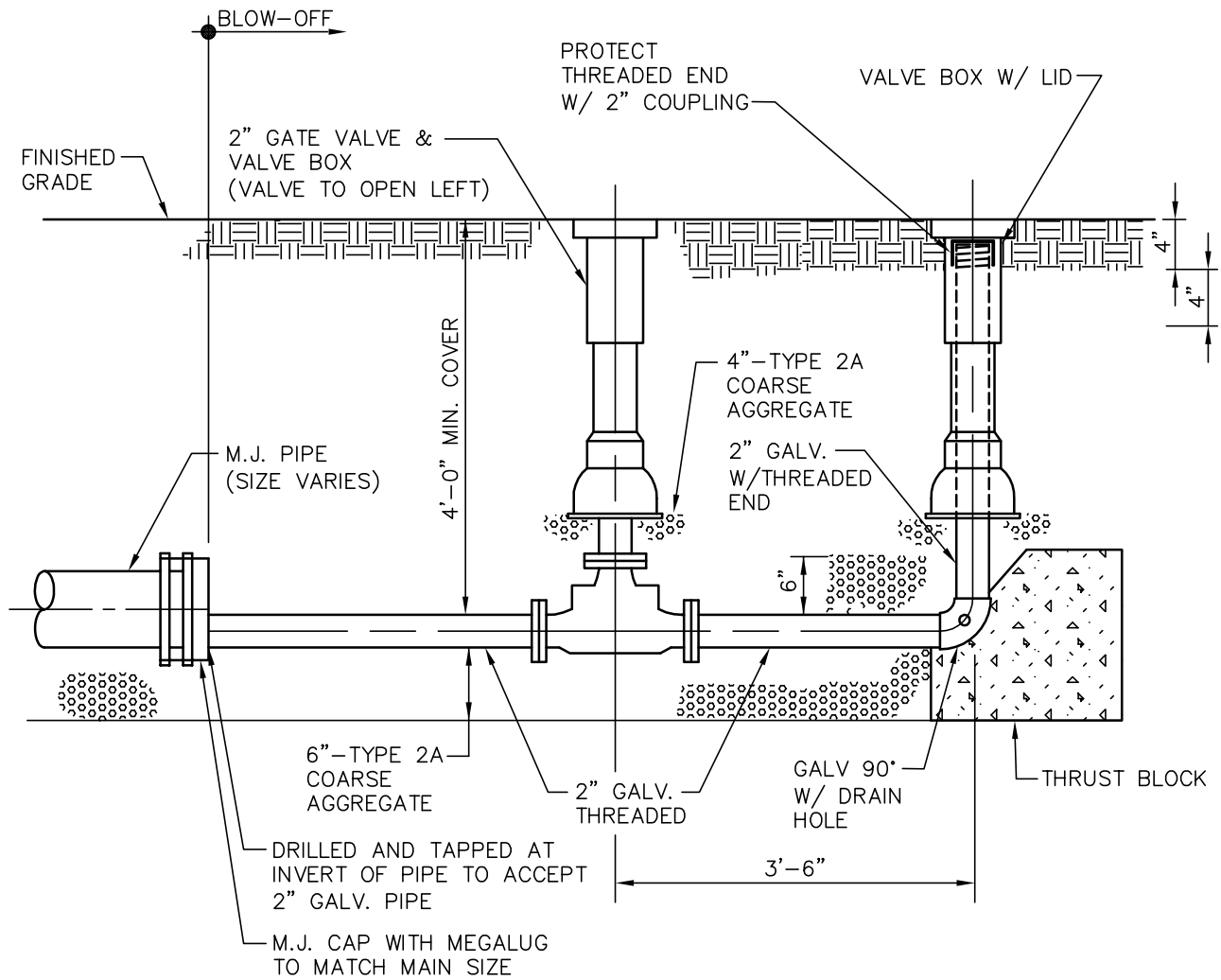
**PLUMSTEAD TOWNSHIP**

**WATER-19**

**FIRE LINE NOT METERED INSTALLATION**  
**DOMESTIC SERVICE & RESIDENTIAL SPRINKLER SYSTEM**

DATE: JUNE 28, 2023

SCALE: NOT TO SCALE



**ELEVATION**

**NOTES:**

1. CONCRETE THRUST BLOCK TO BE SIZED FOR HORIZONTAL THRUST FROM UPSTREAM PIPE DIAMETER.
2. IF WATER TABLE PRESENT IN TRENCH, USE 2B STONE FOR PIPE BEDDING.
3. BLOWOFF SHALL BE KUPFERLE TF500 OR APPROVED EQUAL.



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ENGINEERING & CONSULTING SERVICES

**PLUMSTEAD TOWNSHIP**

**WATER-20**

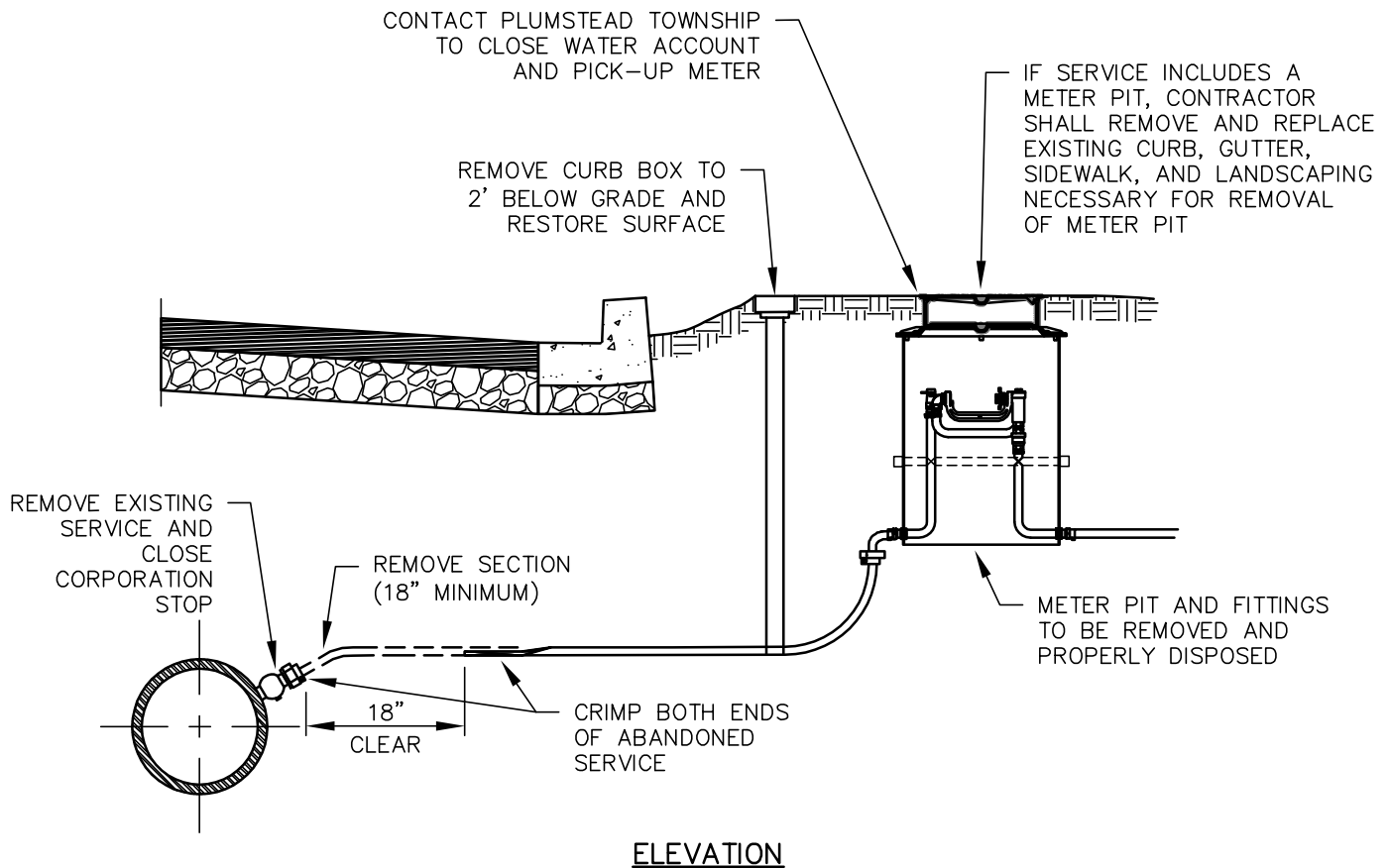
**SURFACE BLOW-OFF**

DATE:

JUNE 28, 2023


SCALE:

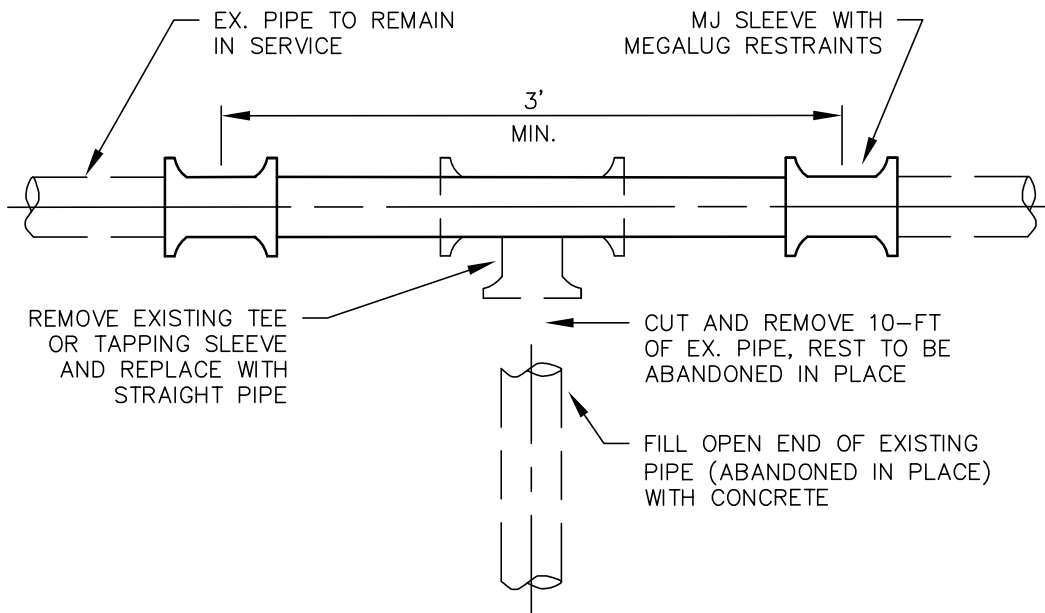
NOT TO SCALE



**NOTES:**

1. PLUMSTEAD TOWNSHIP REPRESENTATIVE TO OBSERVE CLOSED CORPORATION. REPAIR OF ANY OBSERVED LEAKS IS RESPONSIBILITY OF PROPERTY OWNER.
2. REUSE OF EXISTING SERVICE IS ONLY PERMITTED FOLLOWING INSPECTION AND APPROVAL OF PLUMSTEAD TOWNSHIP REPRESENTATIVE.
3. ABANDONMENT REQUIREMENTS MAY BE MODIFIED IF TIGHT CLOSURE CANNOT BE ACCOMPLISHED OR IF LEAKING IS OBSERVED.

	<b>PLUMSTEAD TOWNSHIP</b>	<b>WATER-21</b>	<b>WATER SERVICE ABANDONMENT FOR ¾" - 2" SERVICES</b>
	DATE: JUNE 28, 2023	SCALE: NOT TO SCALE	



PLAN

**NOTES:**

1. SURFACE TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS. IF ABANDONMENT IS IN TOWNSHIP OR STATE ROAD, RESTORATION SHALL BE IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION.
2. IF MAIN OR SERVICE TO BE ABANDONED INCLUDES VALVES, VALVES TO BE POSITIONED AS DIRECTED BY PLUMSTEAD TOWNSHIP AND ABANDONED IN ACCORDANCE WITH DETAIL WATER-22. PLUMSTEAD TOWNSHIP PERSONNEL ONLY SHALL OPERATE VALVES.
3. IF SERVICE TO BE ABANDONED INCLUDES CURB BOX, CURB BOX SHALL BE REMOVED TO 2' BELOW GRADE MINIMUM.
4. ALL ABANDONMENT WORK SHALL BE OBSERVED BY PLUMSTEAD TOWNSHIP OR ITS REPRESENTATIVE.
5. LINE STOPS OR INSERTION VALVES MAY BE REQUIRED.



GILMORE & ASSOCIATES, INC.  
ENGINEERING & CONSULTING SERVICES

**PLUMSTEAD TOWNSHIP**

**WATER-22**

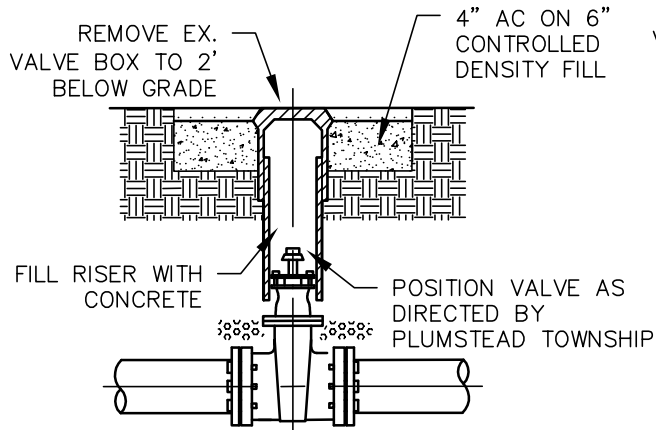
**ABANDONMENT OF  
WATER MAIN OR  
SERVICES > 2"**

DATE:

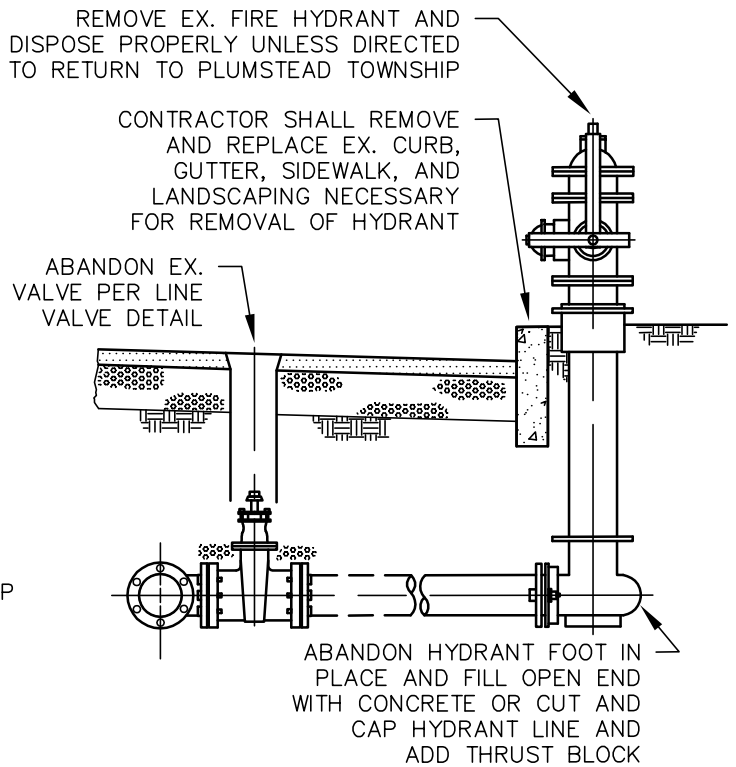
JUNE 28, 2023

SCALE:

NOT TO SCALE



**LINE VALVE**



**FIRE HYDRANT**

**NOTES:**

1. SURFACE TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS. IF ABANDONMENT IS IN TOWNSHIP OR STATE ROAD, RESTORATION SHALL BE IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION.
2. IF MAIN OR SERVICE TO BE ABANDONED INCLUDES VALVES, VALVES TO BE POSITIONED AS DIRECTED BY PLUMSTEAD TOWNSHIP AND ABANDONED IN ACCORDANCE WITH THIS DETAIL. PLUMSTEAD TOWNSHIP PERSONNEL ONLY SHALL OPERATE VALVES.
3. ALL ABANDONMENT WORK SHALL BE OBSERVED BY PLUMSTEAD TOWNSHIP OR ITS REPRESENTATIVE.
4. IF VALVE TO BE ABANDONED LEAKS UPON OPERATION OR CANNOT ACHIEVE TIGHT CLOSURE, REMOVAL MAY BE REQUIRED, AS WELL AS INSTALLATION OF LINESSTOP, REPLACEMENT VALVE, OR CAP, AS DIRECTED BY TOWNSHIP.



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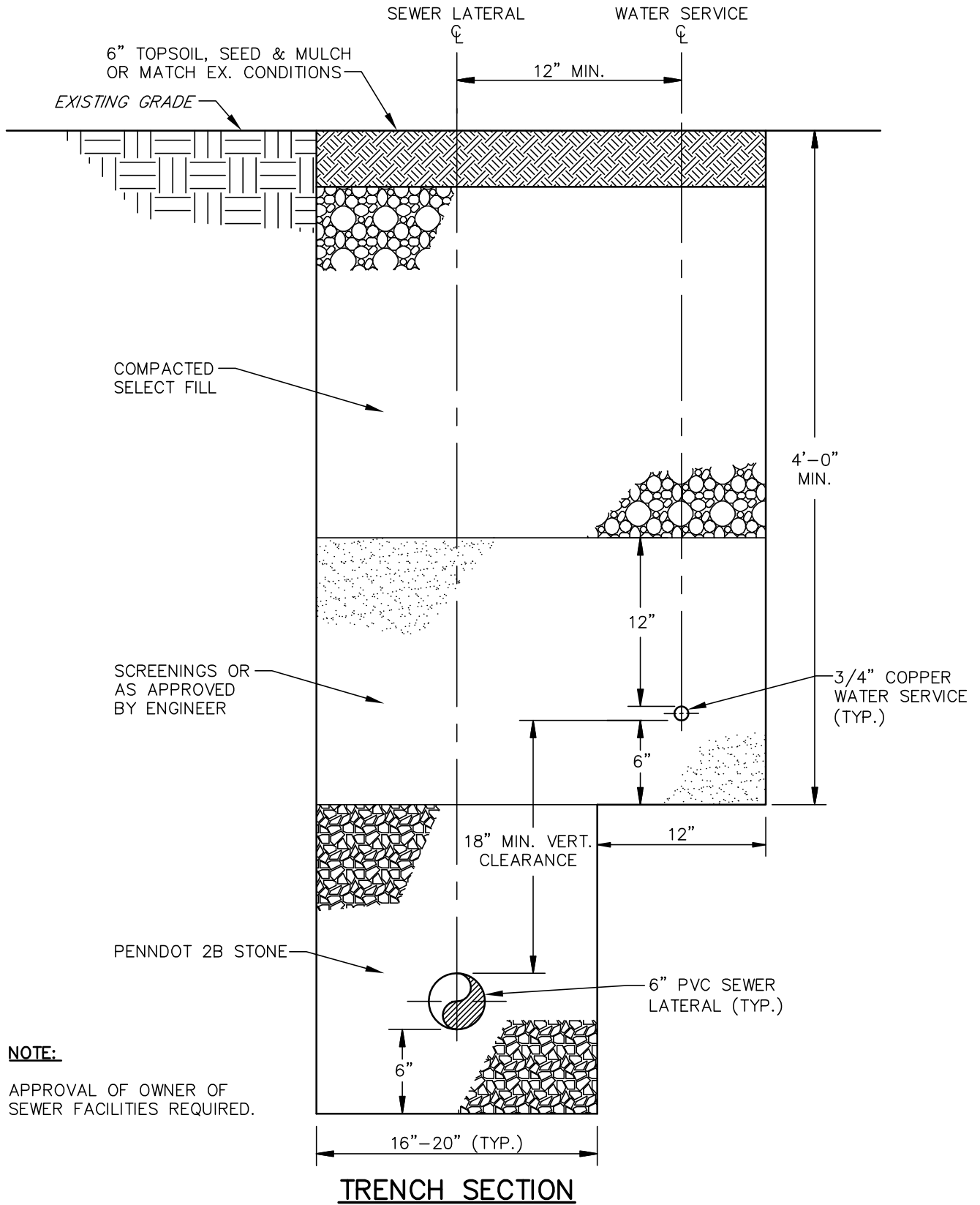
**PLUMSTEAD TOWNSHIP**

**WATER-23**


**VALVE AND HYDRANT  
ABANDONMENT**

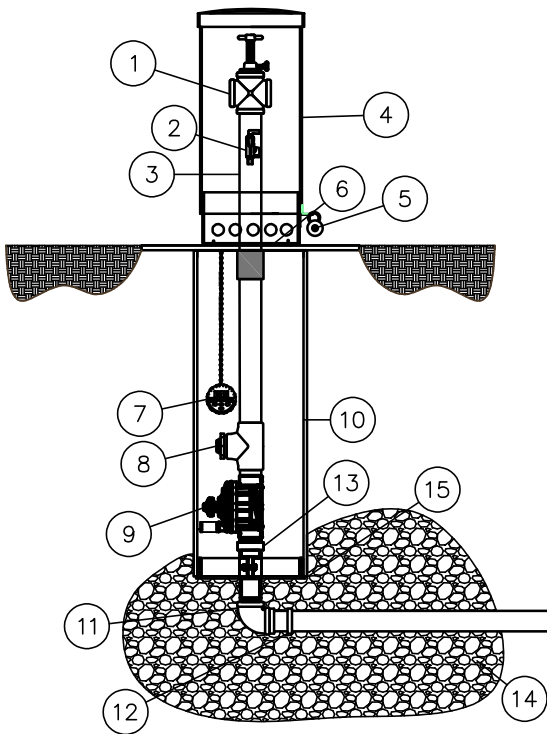
DATE:  
JUNE 28, 2023

SCALE:  
NOT TO SCALE



**NOTE:**  
 APPROVAL OF OWNER OF SEWER FACILITIES REQUIRED.

	<b>PLUMSTEAD TOWNSHIP</b>	<b>WATER-24</b>	<b>WATER SERVICE AND SEWER LATERAL COMMON TRENCH</b>
	DATE: JUNE 28, 2023	SCALE: NOT TO SCALE	



ITEM	ITEM / DESCRIPTION
1	2" WATER FLOW RESTRICTOR
2	SAMPLING POINT
3	2" PVC PIPE
4	UV RESISTANT LOCKABLE DOME ENCLOSURE
5	LOCKING POINT
6	REMOVABLE ACCESS PLATE
7	CONTROLLER
8	AUTOMATIC DRAIN
9	2" AUTOMATIC VALVE
10	SDR 35 SEWER PIPE
11	2" SS MIP INLET
12	2" MIP x COMPRESSION ADAPTER
13	O-RING CONNECTOR
14	2B STONE
15	DEBRIS PLATE

**NOTES:**

1. AUTOMATIC FLUSHING DEVICE SHALL HAVE A 2" STAINLESS STEEL MIP INLET, THAT LEADS VERTICALLY TO THE BOTTOM INTO A 2" AUTOMATIC FLUSHING VALVE.
2. THE FLUSHING VALVE SHALL CONTROL THE FLOW OF WATER THROUGH THE HYDRANT AND ITS DIAPHRAGM WITH THE EXTENSION AND RETRACTION OF A DC LATCHING SOLENOID AND HAVE A 220 PSI RATING.
3. EACH UNIT SHALL BE FURNISHED WITH A STAND-ALONE VALVE CONTROLLER. VALVE CONTROLLER WILL NOT REQUIRE A SECOND HAND-HELD DEVICE FOR PROGRAMMING.
4. CONTROLLER SHALL BE SUBMERSIBLE TO 12 FEET, OPERATE WITH A 9 VOLT BATTERY AND HAVE RESIN-SEATED ELECTRICAL COMPONENTS.
5. SOLENOID SHALL HAVE NO LOOSE PARTS WHEN REMOVED FROM VALVE.
6. REMOVAL OF 2" SOLENOID VALVE SHALL BE POSSIBLE VIA AN O-RING CONNECTOR LOCATED UNDER THE VALVE AFTER REMOVAL OF STAINLESS STEEL ACCESS PLATE.
7. VALVE ASSEMBLY SHALL BE CONTAINED WITHIN A UV-RESISTANT LOCKING COVER.
8. UNIT MODEL # SHALL BE 9400 AS MANUFACTURED BY KUPFERLE FOUNDRY COMPANY, OR APPROVED EQUAL, WITH DECHLORINATION BASKET.
9. A METER PIT IS REQUIRED UPGRADIENT OF THE FLUSHER.
10. LOCATION OF AUTOMATIC FLUSHER ON DEAD END LINES IS AT DISCRETION OF TOWNSHIP BASED ON WATER SYSTEM CONDITIONS



GILMORE & ASSOCIATES, INC.  
ENGINEERING & CONSULTING SERVICES

**PLUMSTEAD TOWNSHIP**

**WATER-25**

**AUTOMATIC FLUSHER**

DATE:  
JUNE 4, 2026

SCALE:  
NOT TO SCALE