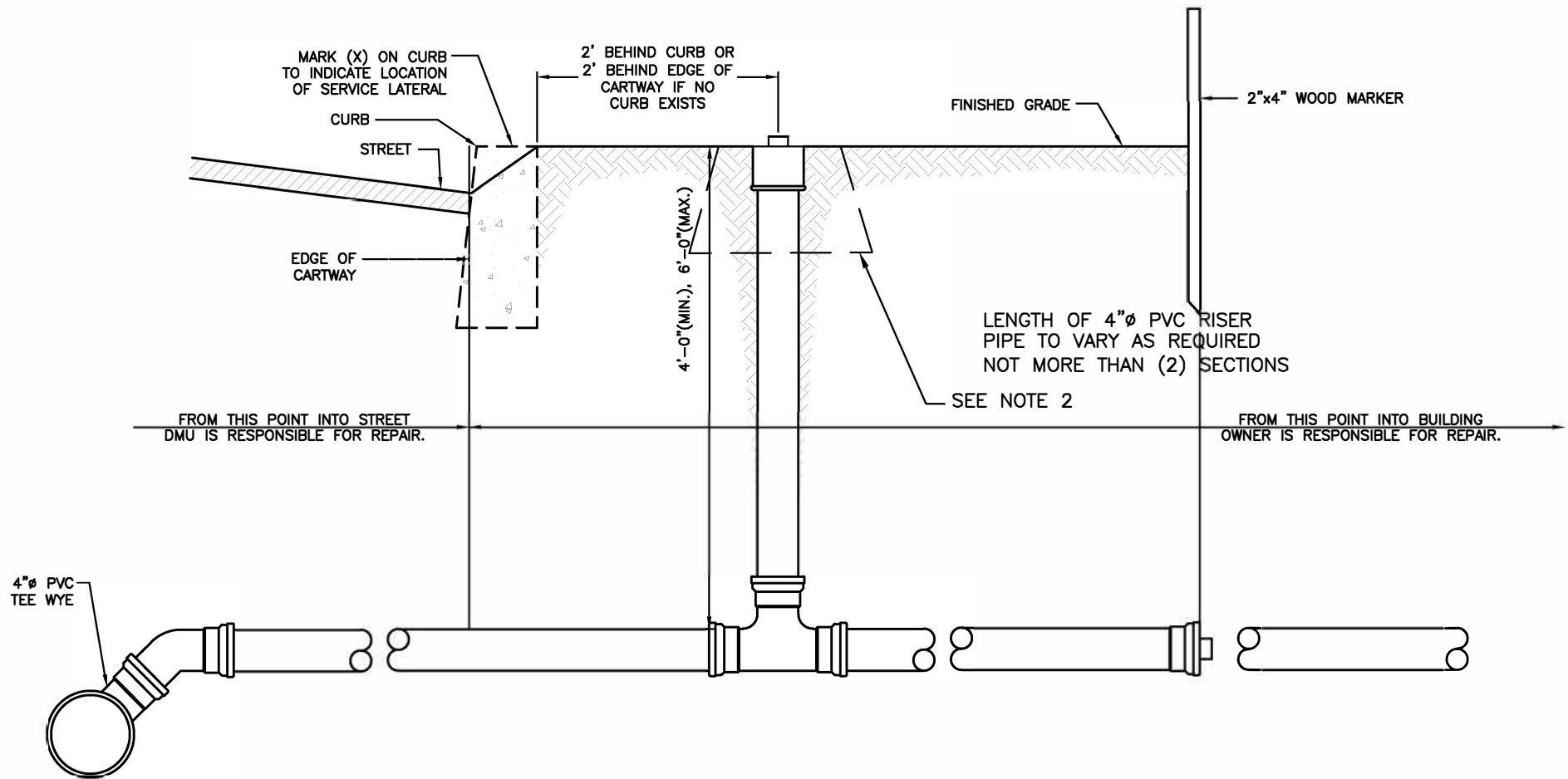


DETAIL INDEX (W.T.D.M.U.)		
DETAIL #	STANDARD SANITARY SEWER DETAIL DESCRIPTION	LAST REVISION DATE
WTS - 1	TYPICAL LATERAL DETAIL	7/2025
WTS - 1A	SEWER LATERAL OWNER REPAIR RESPONSIBILITY DETAIL	7/2025
WTS - 1B	SEWER LATERAL OWNER MAINTENANCE RESPONSIBILITY DETAIL	7/2025
WTS - 2	DEEP CUT LATERAL DETAIL (FOR DEPTHS 12' OR LESS)	7/2025
WTS - 3	DEEP CUT LATERAL DETAIL (FOR DEPTHS 12' OR MORE)	7/2025
WTS - 4	LATERAL TRENCH	7/2025
WTS - 5	TRAFFIC PROTECTOR CLEAN – OUT	7/2025
WTS - 6	WATERTIGHTMANHOLE COVER	7/2025
WTS - 7	STANDARD MANHOLE GRADE RING	7/2025
WTS - 8	STANDARD 4' – 0" DIAMETER PRECAST MANHOLE	7/2025
WTS - 9	DROP MANHOLE	7/2025
WTS - 10	FORCE MAIN OUTSIDE DROP CONNECTION	7/2025
WTS - 11	FORCE MAIN INSIDE DROP CONNECTION	7/2025
WTS - 12	MANHOLE CORING	7/2025
WTS - 13	TYPICAL CHANNELING OF MANHOLE BOTTOM	7/2025
WTS - 14	D-LOK JOINT GASKET	7/2025
WTS - 15	CONCRETE ENCASEMENT AND SADDLE	7/2025
WTS - 16	CONCRETE CRADLE	7/2025
WTS - 17	SPECIALIZED TRENCH DETAILS	7/2025
WTS - 18	CONCRETE SUPPORT TRENCH DETAILS	7/2025
WTS - 19	ACTIVE ROADWAY TRENCH DETAILS	7/2025
WTS - 20	DOGHOUSE MANHOLE	7/2025
WTS - 21	DROP MANHOLE FOR LATERALS	7/2025



NOTES

1. THE DMU REPAIR RESPONSIBILITY ENDS AT THE EDGE OF ROADWAY (I.E. CARTWAY)
2. IF CLEANOUT IS LOCATED IN CONCRETE AREA, PROVIDE CAST IRON VALVE BOX AND LID



WINSLOW TOWNSHIP

DEPARTMENT OF MUNICIPAL UTILITIES

SEWER LATERAL
OWNER REPAIR RESPONSIBILITY DETAIL

DRAWN: J.J.M.

SCALE: N.T.S.

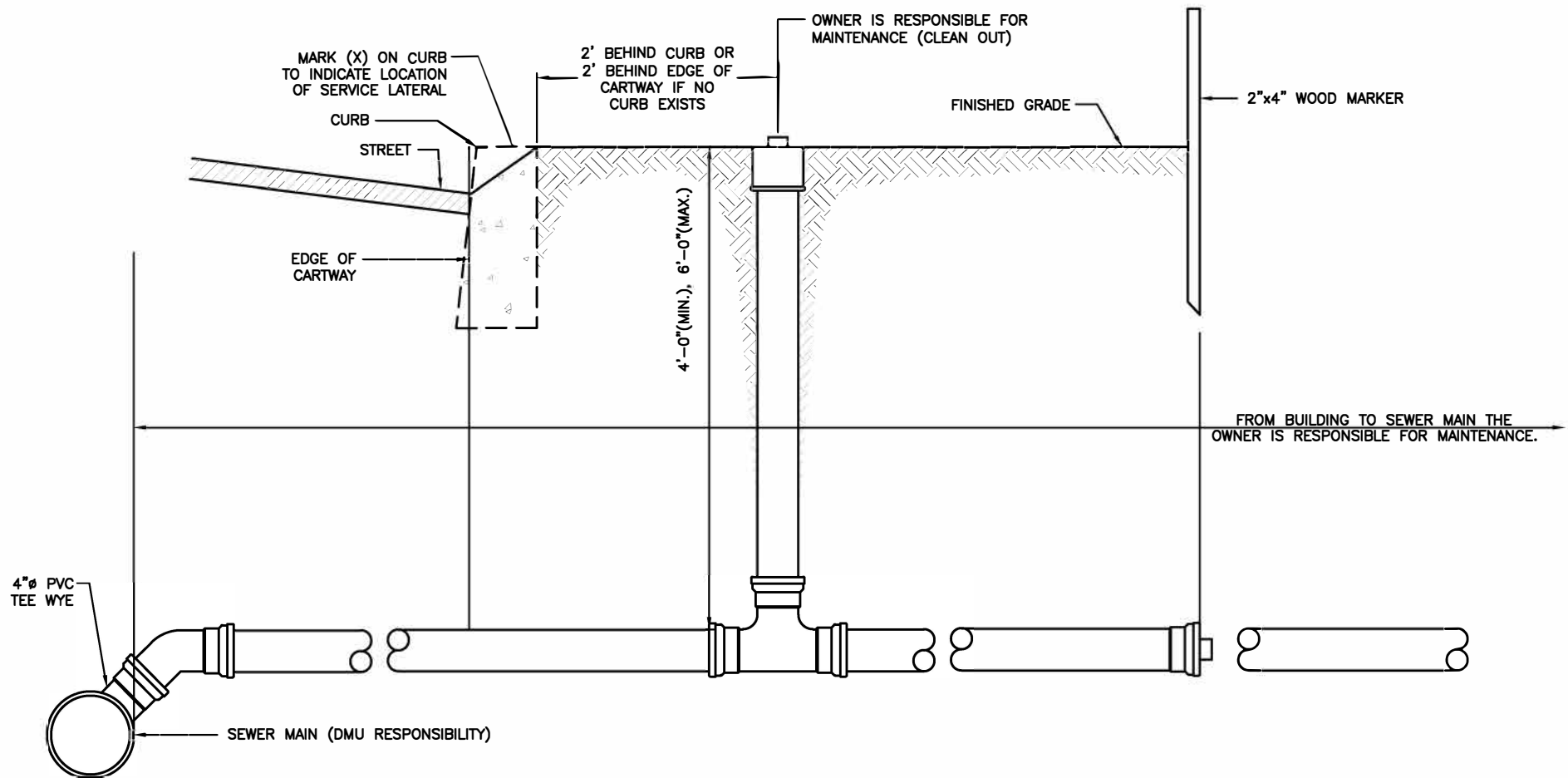
DETAIL #WTS-1A

7/2025

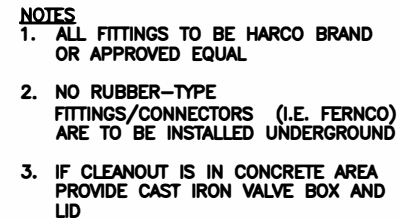
3/2017

REVISIONS

1901



REVISIONS 3/2017 7/2025		WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES SEWER LATERAL OWNER MAINTENANCE RESPONSIBILITY DETAIL	DRAWN: J.J.M. SCALE: N.T.S. DETAIL #WTS-1B



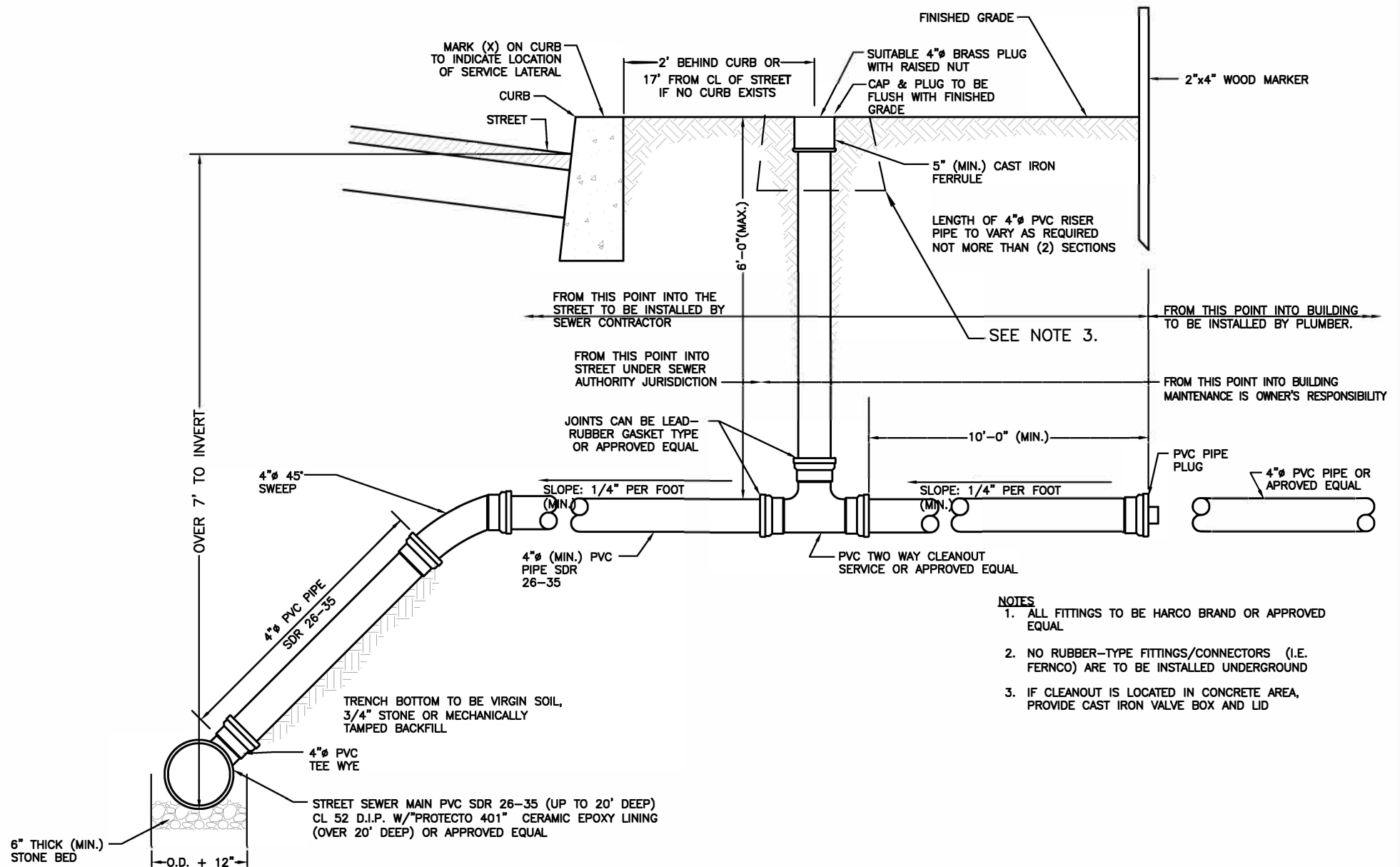
DETAIL #WTS-1

RVE

1901

7/2025

REVISIONS



WINSLOW TOWNSHIP

DEPARTMENT OF MUNICIPAL UTILITIES

DEEP CUT LATERAL DETAIL-FOR DEPTHS 12' OR LESS
(FOR PVC SEWER MAIN CONNECTION)

DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTS-2

RVE

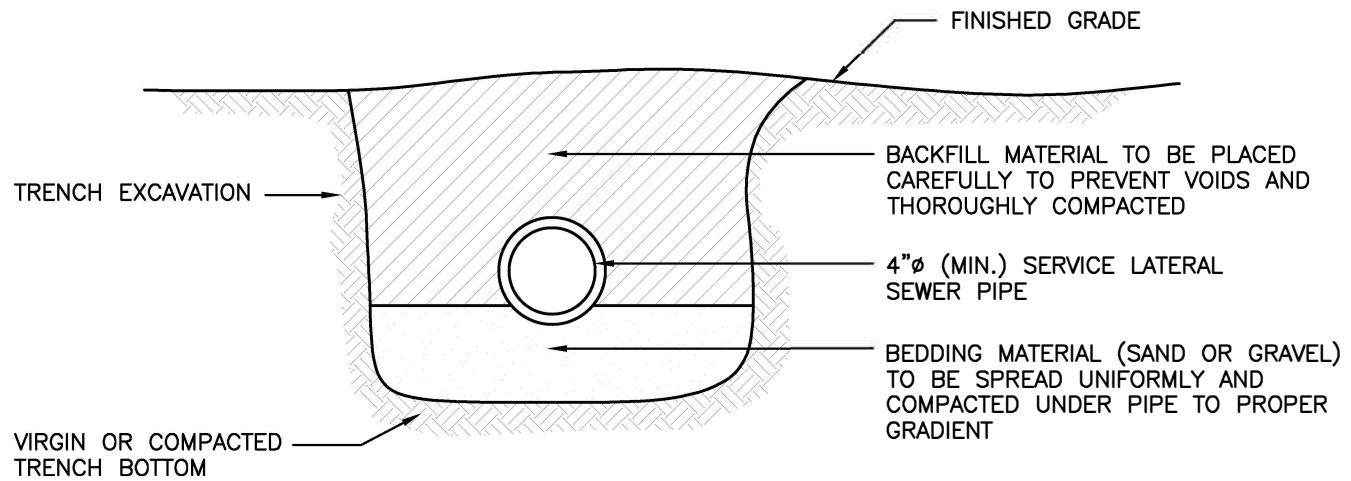
1901

7/2025

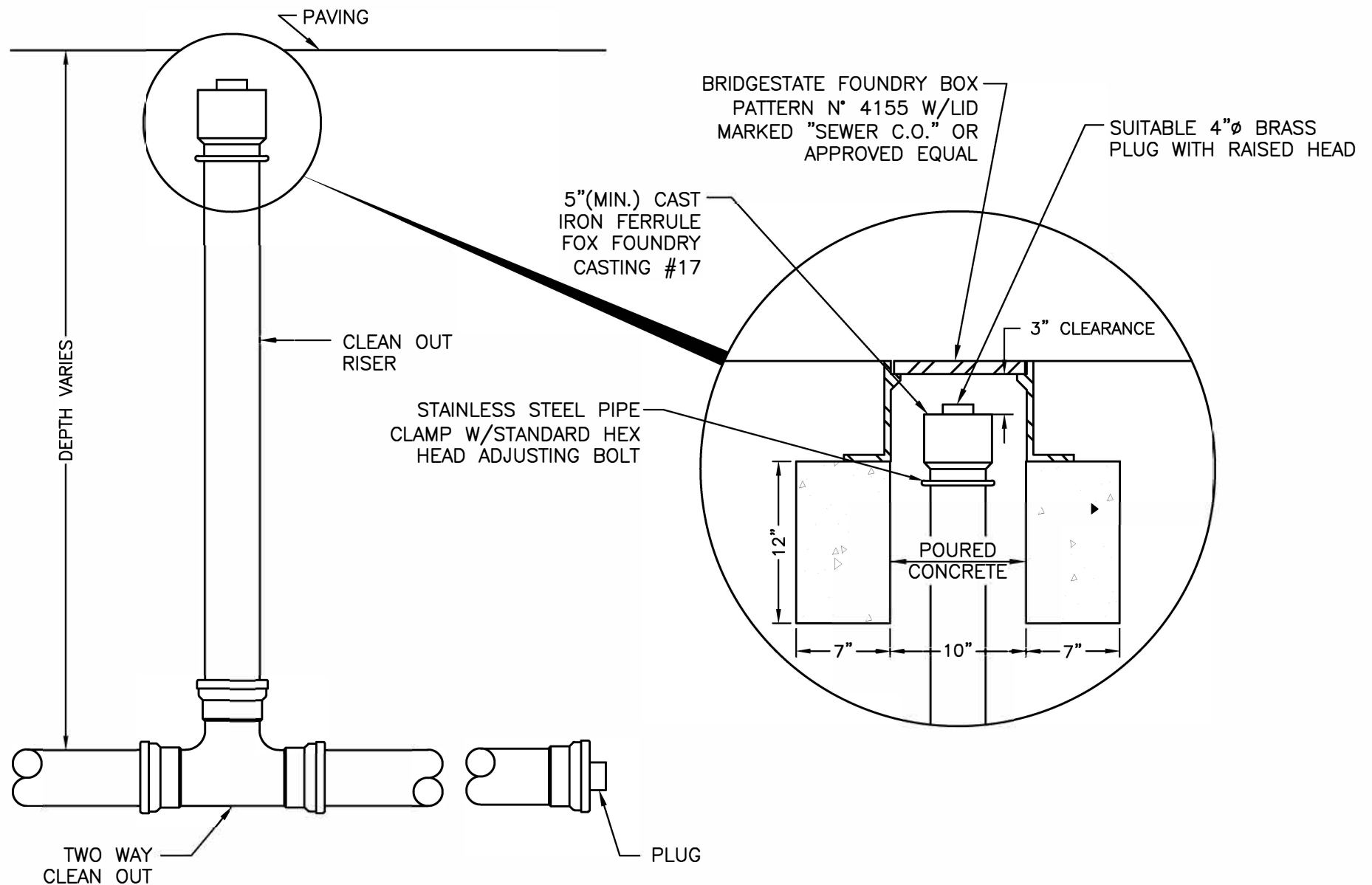
REVISIONS



7/2025 REVISIONS	RVE 1901	WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES	DRAWN: J.J.M.
		DEEP CUT LATERAL DETAIL WITH VERTICAL RISER (FOR PVC SEWER MAIN CONNECTION)	SCALE: N.T.S.
			DETAIL #WTS-3



7/2025 REVISIONS	RVE 1901	WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES SERVICE LATERAL TRENCH DETAIL	DRAWN: J.J.M. SCALE: N.T.S. DETAIL #WTS-4
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RVE

1901

WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

TRAFFIC PROTECTOR
CLEAN-OUT DETAIL

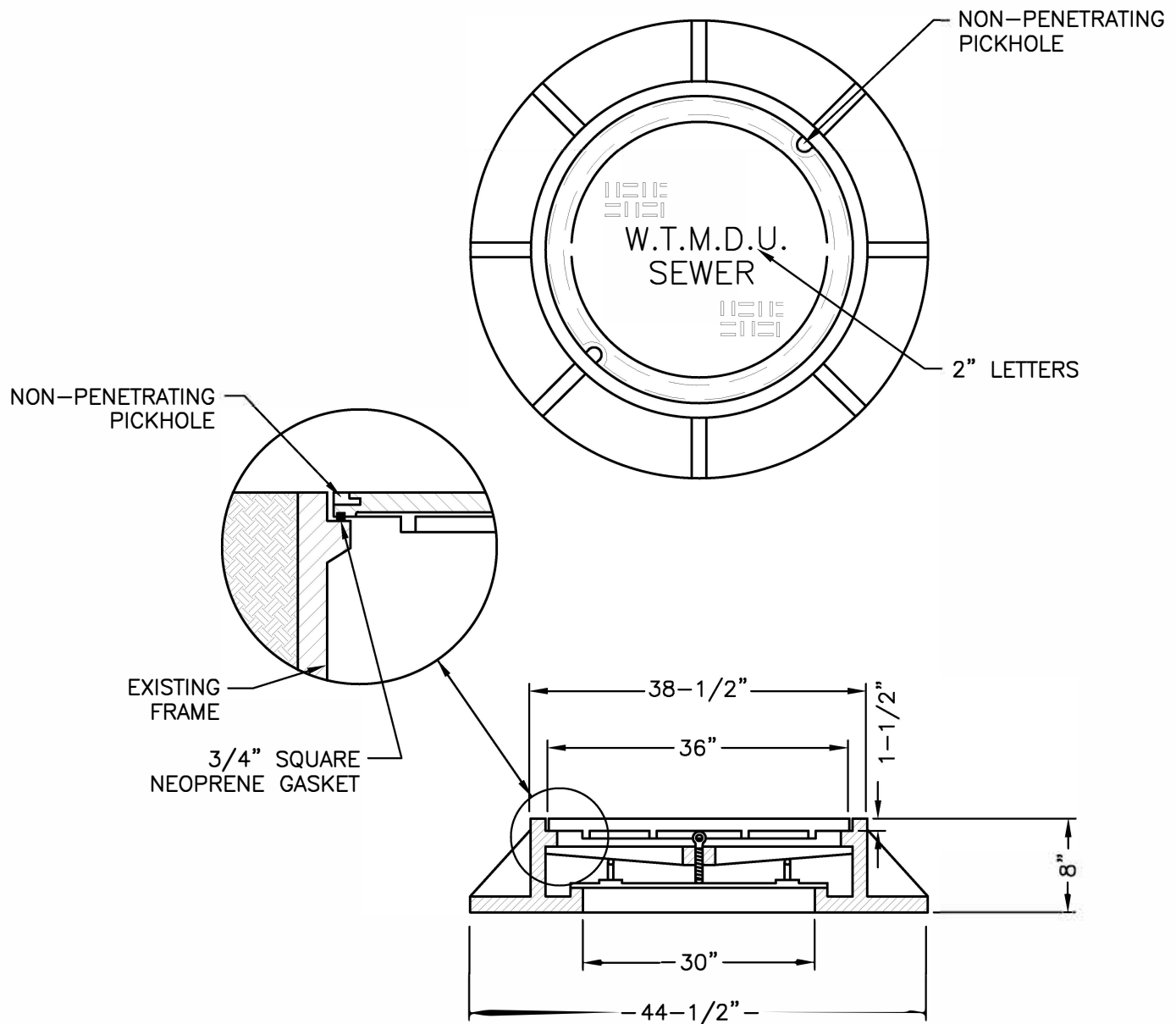
DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTS-5

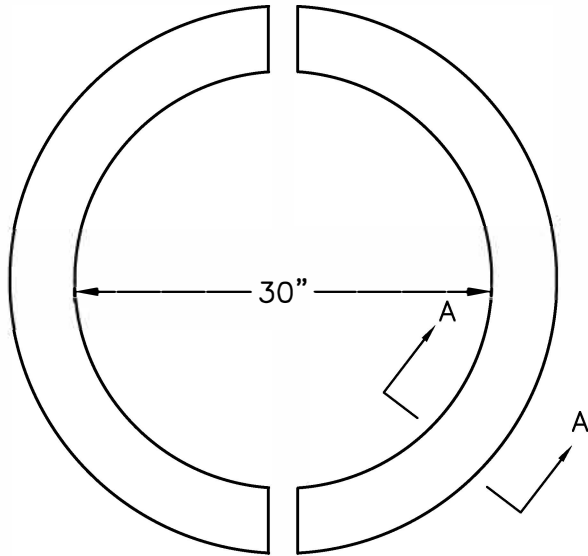
7/2025

REVISIONS

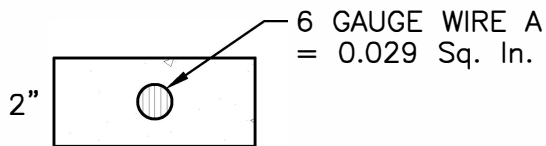


CAMPBELL FOUNDRY CO. MODEL #1012A (30")
W/ "FLOW SEAL"

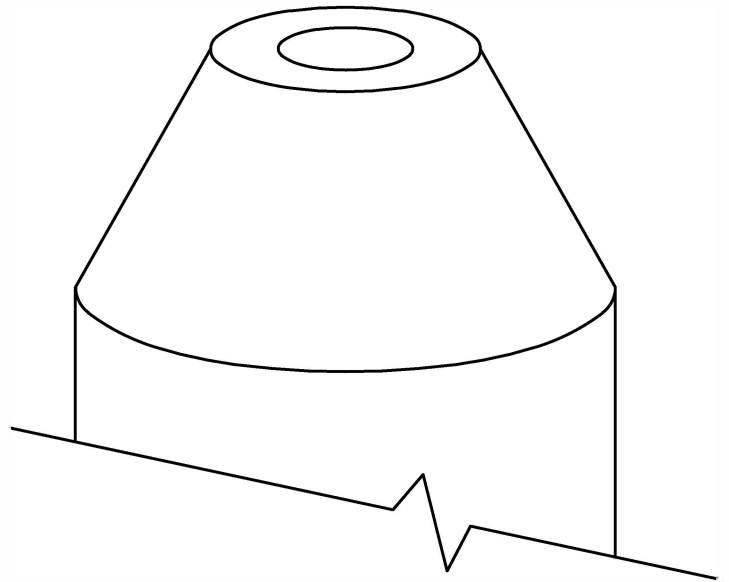
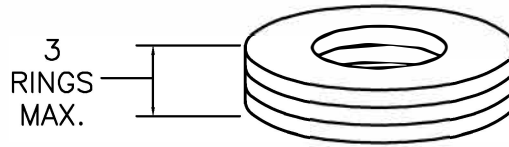
7/2025 REVISIONS	RVE 1901	WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES	DRAWN: J.J.M.
		WATERTIGHT MANHOLE COVER	SCALE: N.T.S.
			DETAIL #WTS-6



PLAN VIEW



SECT AA

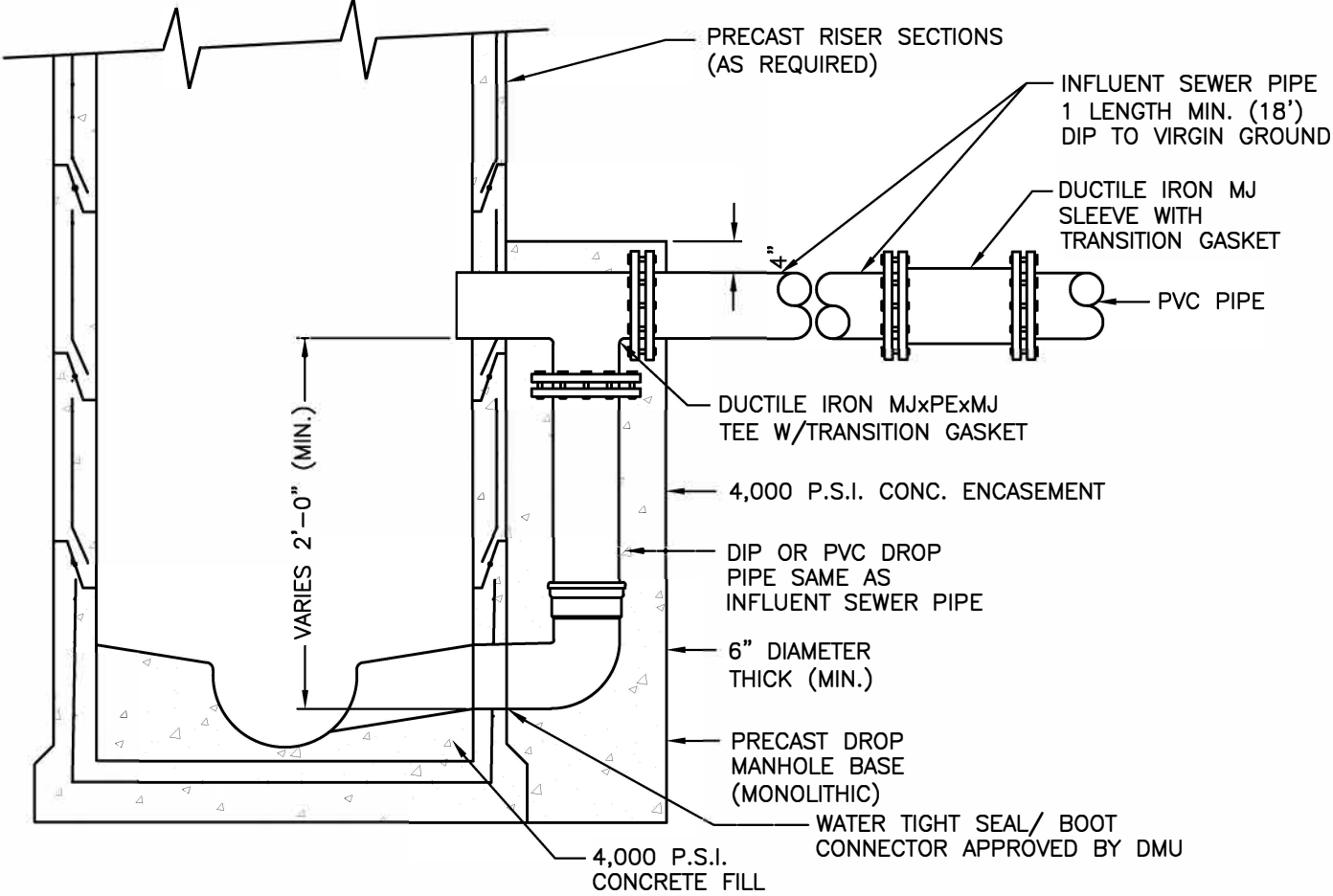


SPECIFICATIONS:

1. CONCRETE IS DESIGNED TO OBTAIN A STRENGTH OF 4000 PSI IN 28 DAYS.
2. DESIGN MEETS REQUIREMENTS OF A.S.T.M. STANDARD C-478.
3. WEIGHT OF ONE PIECE (1/2 CIRCLE): 30" DIA. - 165 LBS.

		WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES	DRAWN: J.J.M.
		STANDARD MANHOLE GRADE RING DETAIL	SCALE: N.T.S.
7/2025			DETAIL #WTS-7
REVISIONS			

NOTE: DETAILS NOT SHOWN ARE THE SAME
FOR STANDARD PRECAST MANHOLE



* IF DIFFERENCE BETWEEN INVERTS IS LESS THAN 2.0' SLOPE
CONCRETE CHANNEL UNIFORMLY BETWEEN INFLOW AND OUTFLOW PIPES

WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

RVE

1901

DROP MANHOLE DETAIL

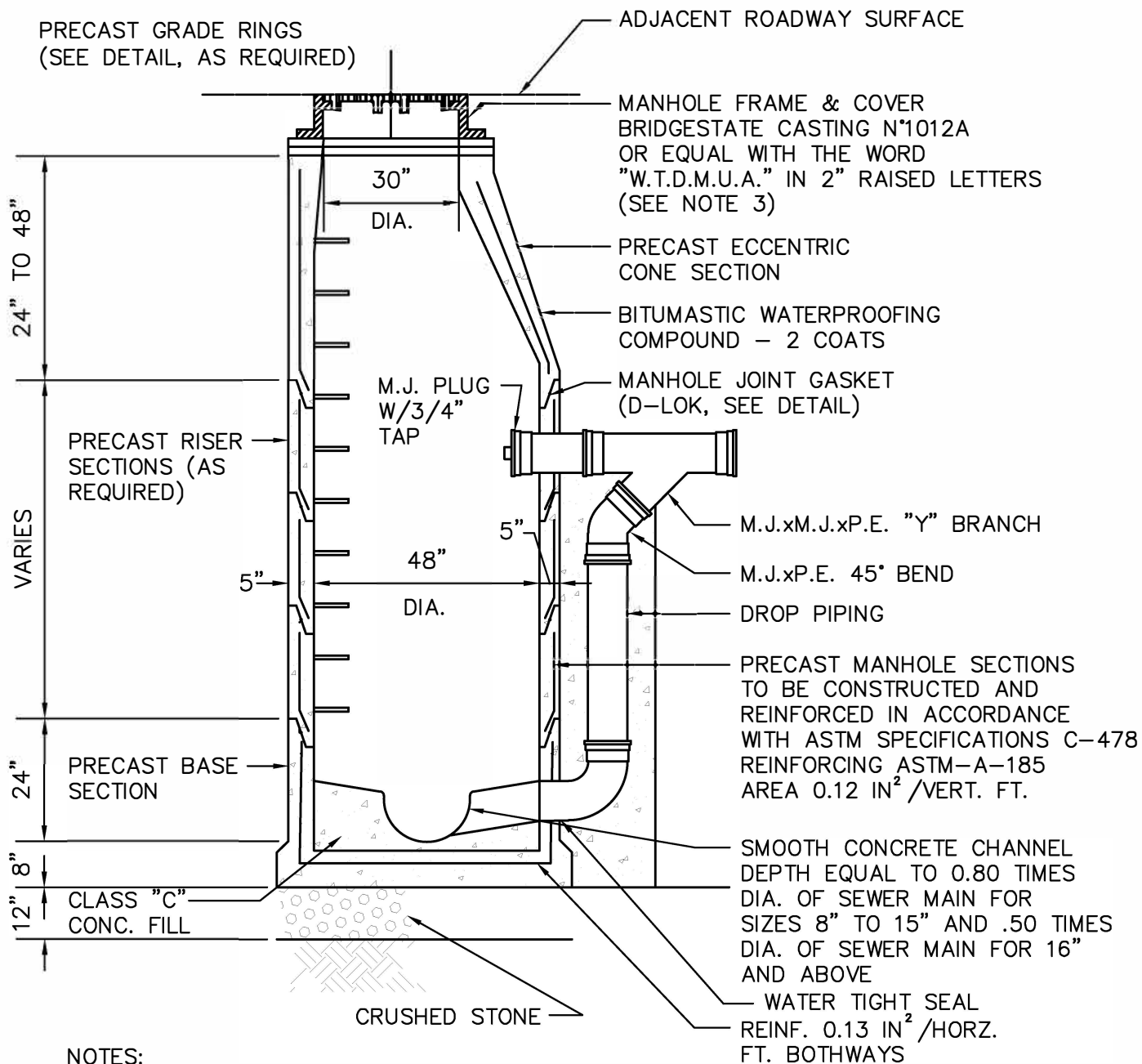
DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTS-9

7/2025

REVISIONS



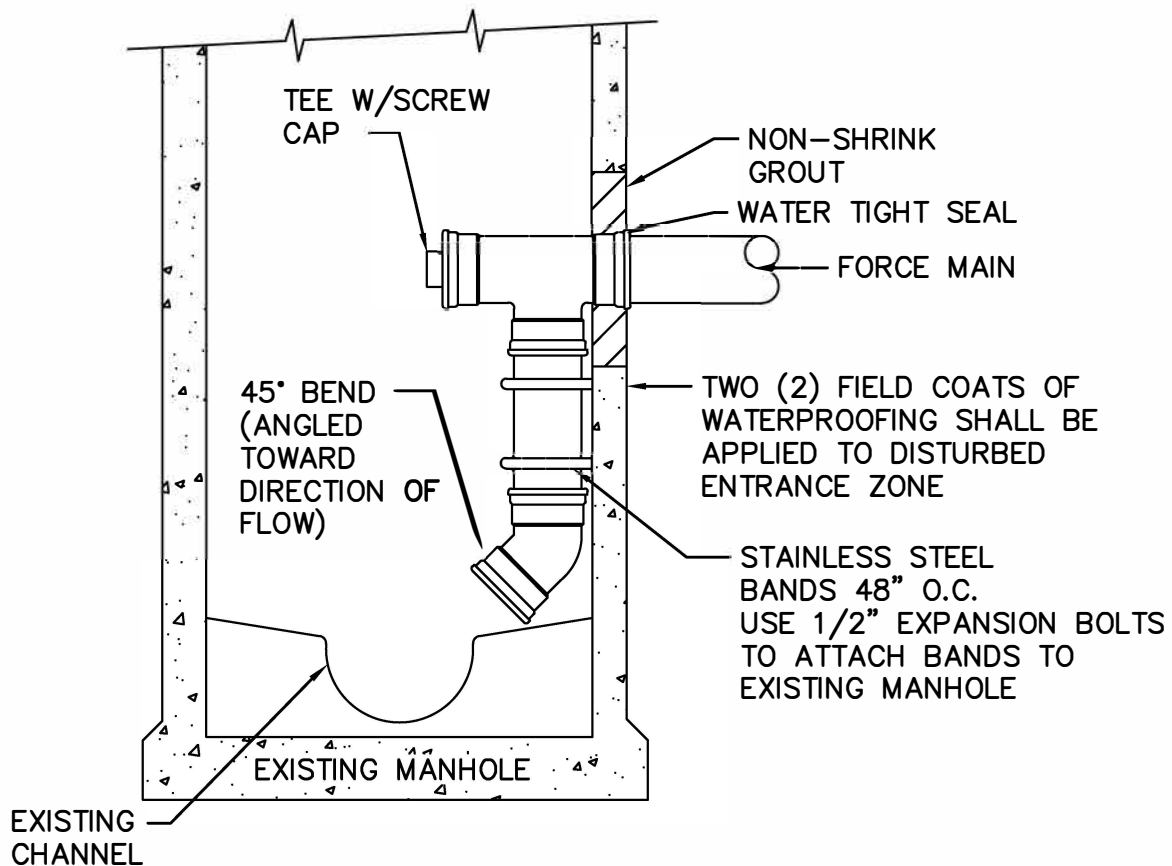
NOTES:

1. ALL D.I.P. FITTINGS EXCEPT VERTICAL DROP PIPING, TO BE FURNISHED WITH RETAINER GLANDS (RESTRAINED JOINT) "CLOW #F-1058 OR EQUAL
2. NEW CHANNELS ARE TO BE COATED WITH (2) COATS EPOXY-AMINE ADDUCT IN ACCORDANCE WITH AWWA D 102-78 SPECS, APPLIED AS PER MANUFACTURER'S SPECIFICATION.
3. THE USE OF EXTENSION RINGS FOR GRADE ADJUSTMENT WILL NOT BE PERMITTED.

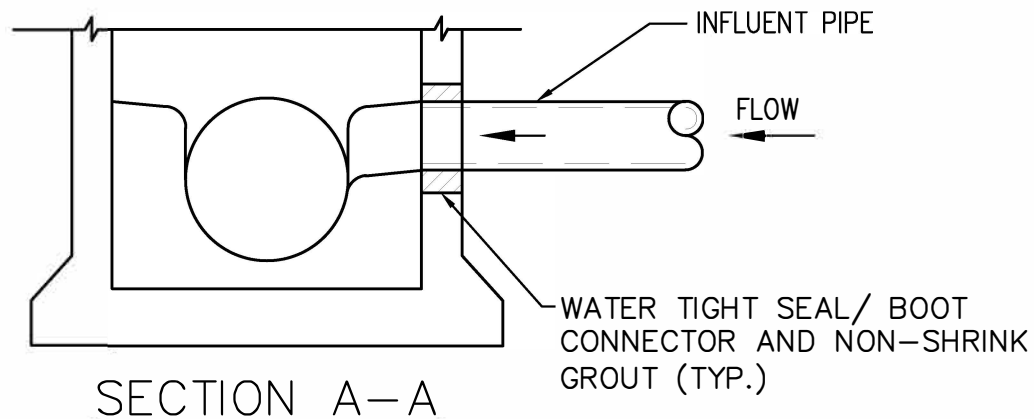
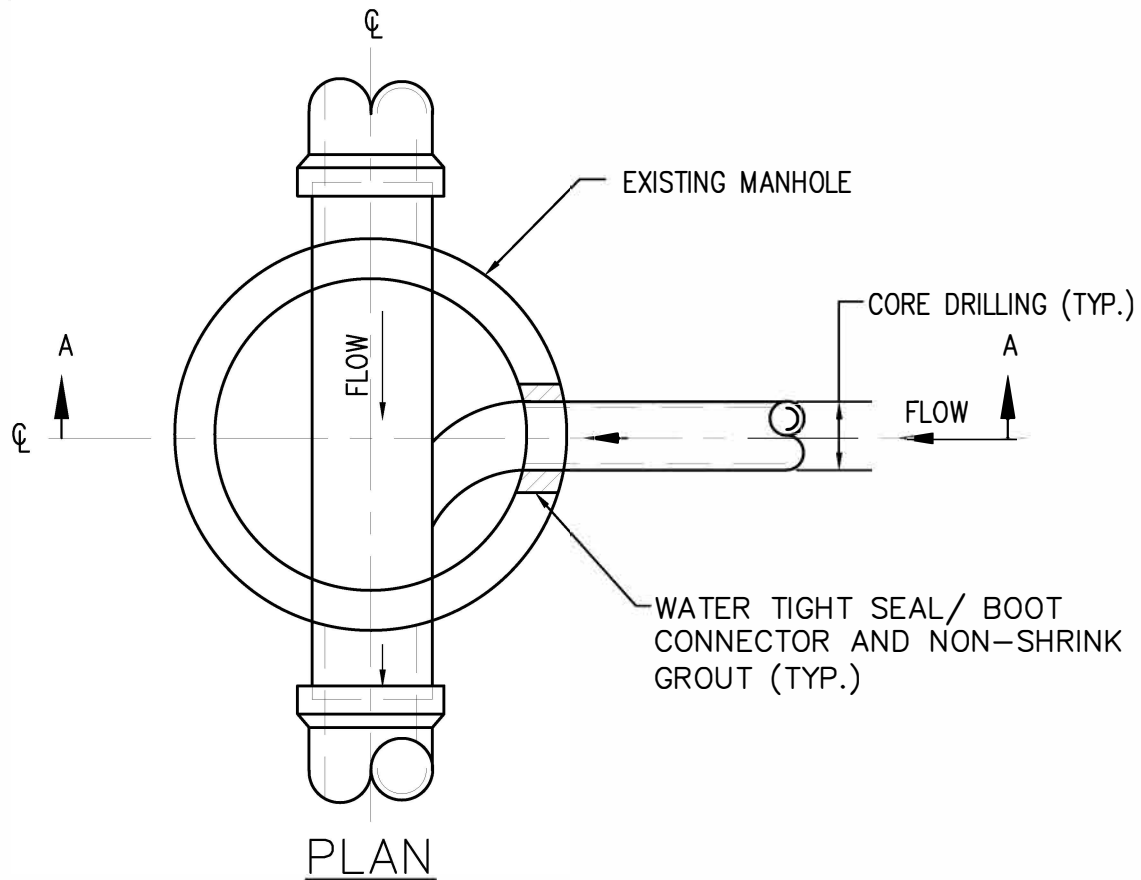
7/2025 REVISIONS	RVE 1901	WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES FORCE MAIN OUTSIDE DROP CONNECTION DETAIL	DRAWN: J.J.M.
			SCALE: N.T.S.
			DETAIL #WTS-10

NOTES:

1. THE CONNECTION TO THE MANHOLE SHOULD BE MADE WITH A CORING MACHINE
2. THE ANNULAR SPACE SHOULD BE FILLED WITH NON-SHRINK GROUT.
3. A PIPE JOINT SHOULD BE PROVIDED WITHIN FOUR (4) FEET OF THE MANHOLE TO ALLOW FOR DIFFERENTIAL SETTLEMENT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO MANHOLE INTERCEPTOR, OR ADJACENT PROPERTY DUE TO CONNECTION CONSTRUCTION.



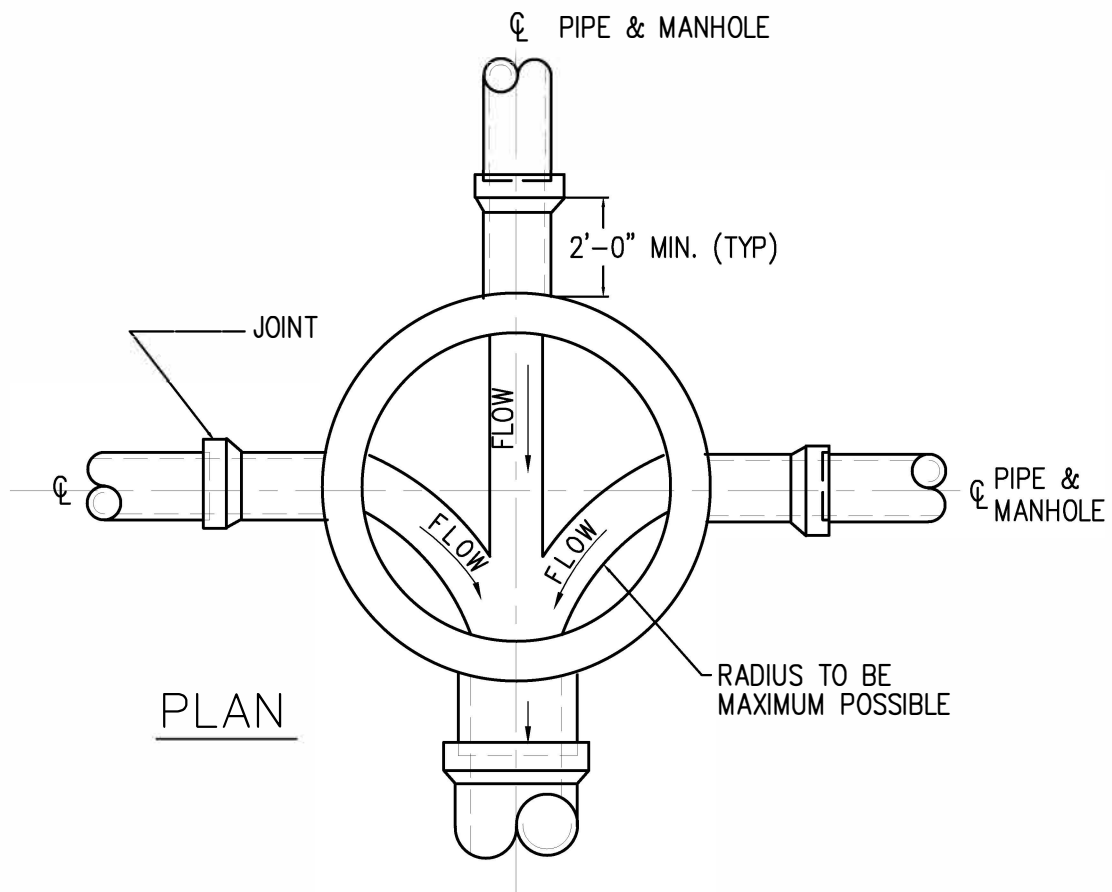
7/2025 REVISIONS	RVE 1901	WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES FORCE MAIN INSIDE DROP CONNECTION DETAIL	DRAWN: J.J.M.
			SCALE: N.T.S.
			DETAIL #WTS-11



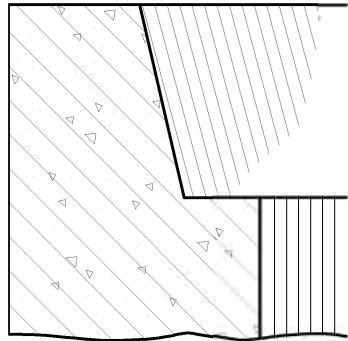
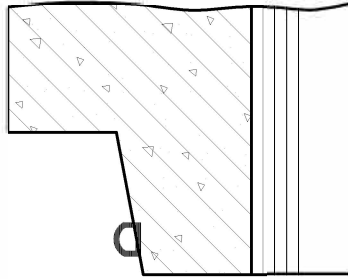
NOTES:

1. THE CONNECTION TO THE EXISTING MANHOLE SHOULD BE MADE WITH A CORING MACHINE.
2. THE ANNULAR SPACE SHOULD BE FILLED WITH NON-SHRINK GROUT.
3. THE BENCH CHANNEL SHOULD BE CAREFULLY JACKHAMMERED TO ACCOMMODATE THE SEWER CONNECTION.
4. EPOXY GROUT EQUIVALENT TO SIKA-DUR HI MOD WITH AGGREGATE OR SIKA-DUR LO MOD SHOULD BE USED TO FORM THE NEW CHANNEL.
5. A PIPE JOINT SHOULD BE PROVIDED WITHIN FOUR (4) FEET OF THE MANHOLE TO ALLOW FOR DIFFERENTIAL SETTLEMENT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO MANHOLE INTERCEPTOR, OR ADJACENT PROPERTY DUE TO CONNECTION CONSTRUCTION.
7. NEW CHANNELS ARE TO BE COATED WITH 2 COATS EPOXY-AMINE ADDUCT IN ACCORDANCE WITH AWWA D 102-78 SPECS. APPLIED AS PER MANUFACTURER'S SPECIFICATIONS.

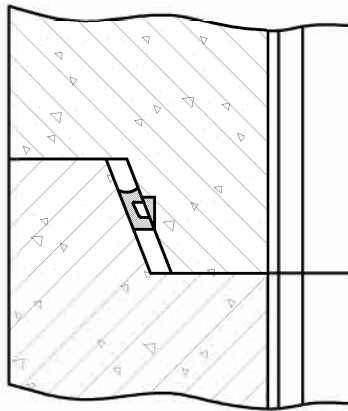
7/2025 REVISIONS		WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES MANHOLE CORING DETAIL	DRAWN: J.J.M.
			SCALE: N.T.S.
			DETAIL #WTS-12



		WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES	DRAWN: J.J.M.
		TYPICAL CHANNELING OF MANHOLE BOTTOM	SCALE: N.T.S.
7/2025			DETAIL #WTS-13
REVISIONS			

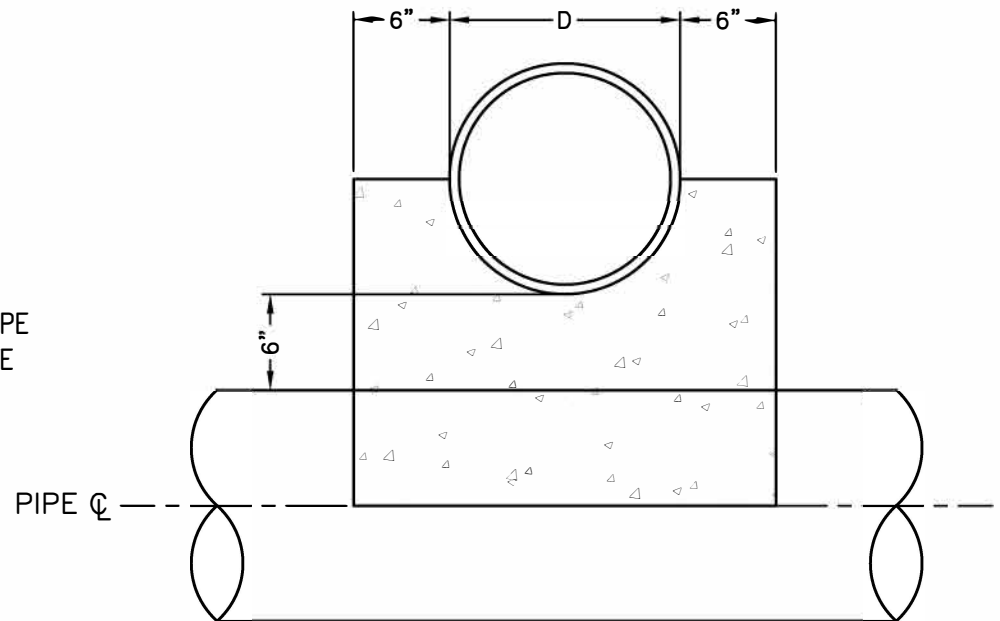
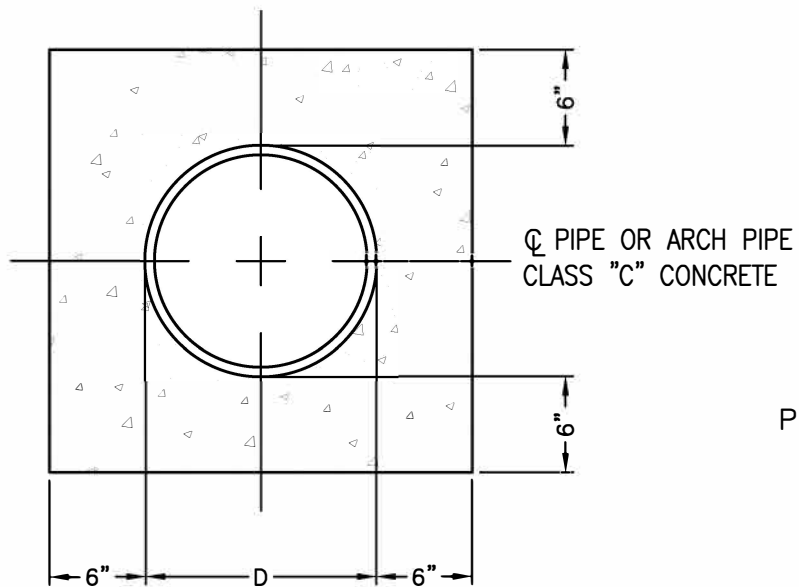


SECTION VIEW OF
OPEN JOINT



SECTION VIEW OF
COUPLED JOINT

	RVE 1901	WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES	DRAWN: J.J.M.
			SCALE: N.T.S.
7/2025		D-LOK JOINT GASKET DETAIL	DETAIL #WTS-14
REVISIONS			



RVE

1901

WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

CONCRETE ENCASEMENT & SADDLE DETAIL

DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTS-15

7/2025
REVISIONS

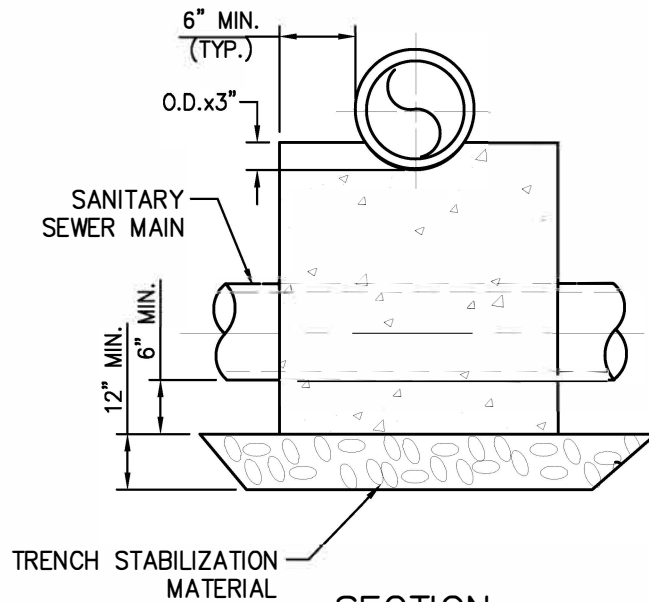
SANITARY SEWER MAIN
OR WATER MAIN (BELOW)

CONCRETE CRADLE (NO
SEPERATE PAYMENT SHALL BE
MADE FOR CONCRETE CRADLES)

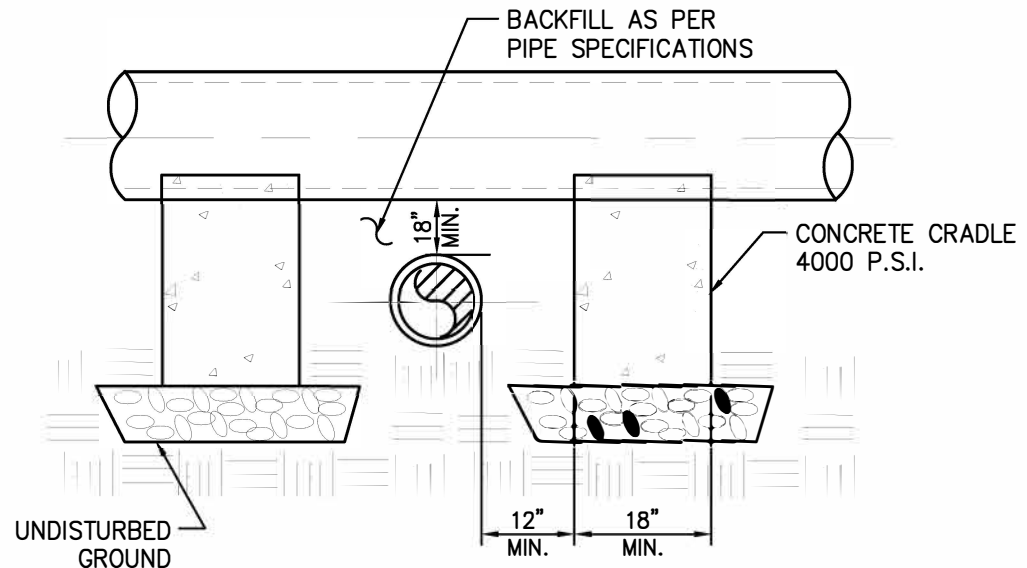
CENTERLINE STORM SEWER
OR UTILITY PIPE

NO PIPE JOINTS/PIPE BELLS SHALL BE
LOCATED AT THE SANITARY SEWER MAIN/
STORM SEWER INTERSECTION POINT (TYP.)

PARTIAL PLAN



SECTION



SIDE VIEW

WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

CONCRETE CRADLE DETAIL

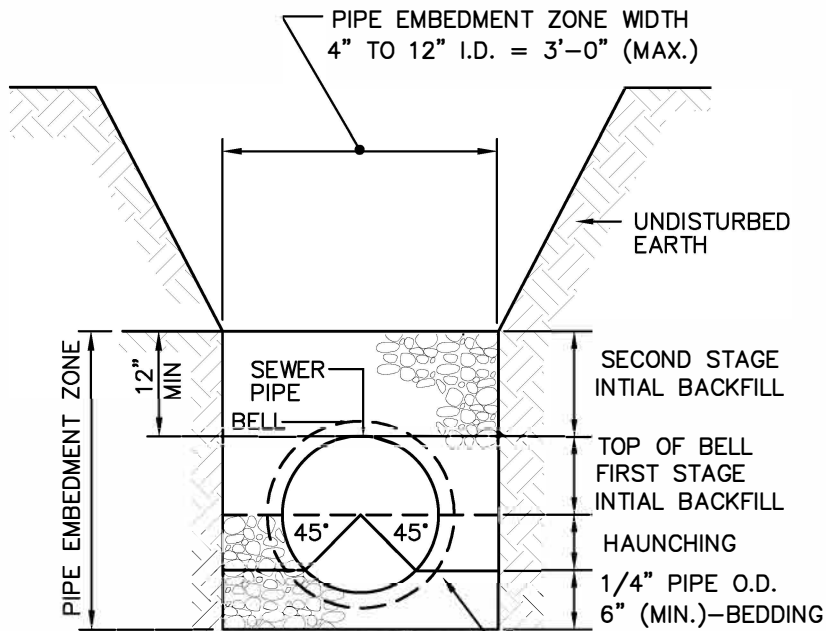
DRAWN: J.J.M.

SCALE: N.T.S.

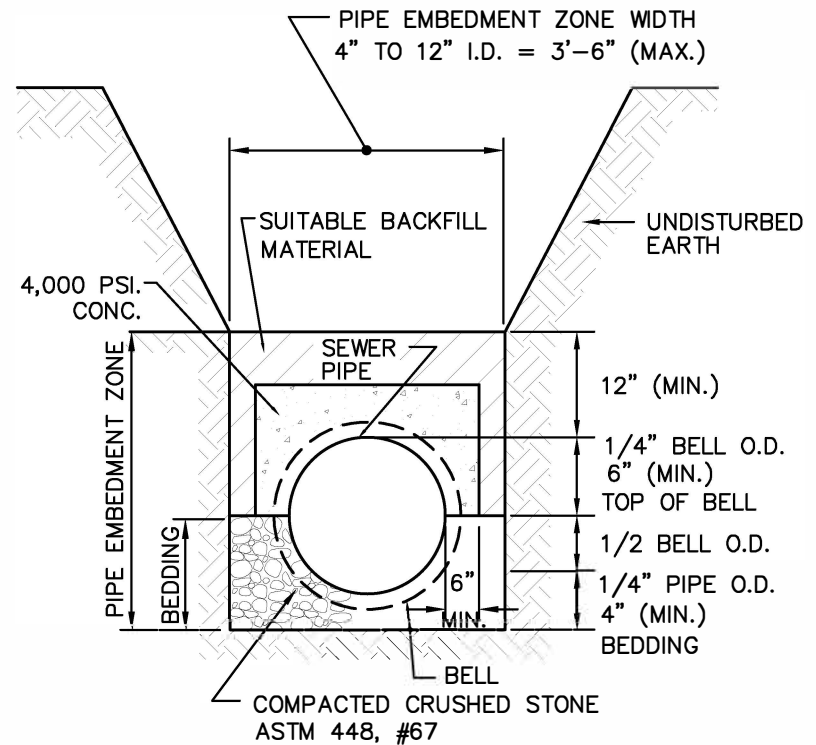
DETAIL #WTS-16

7/2025
REVISIONS





CLASS "B" MODIFIED BEDDING



CONCRETE SADDLE BEDDING

7/2025
REVISIONS



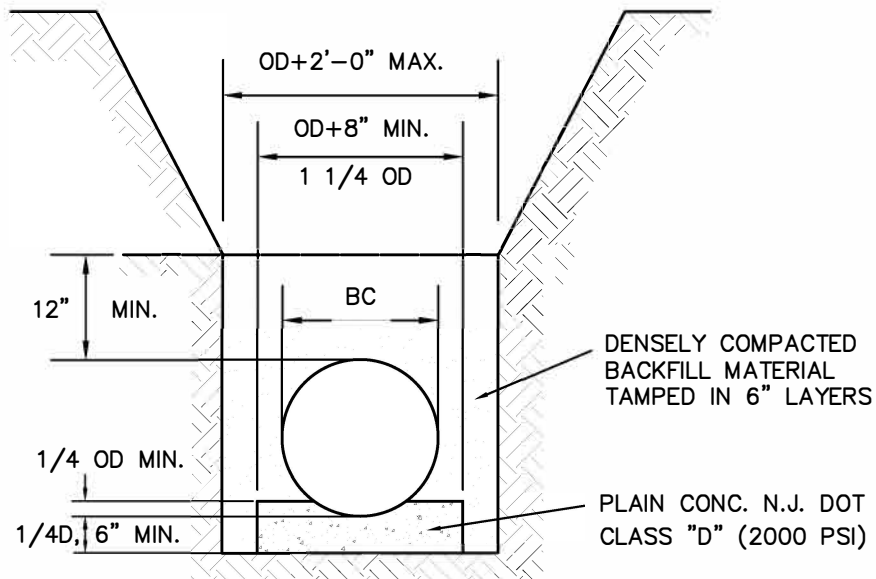
WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

SPECIALIZED TRENCH DETAILS

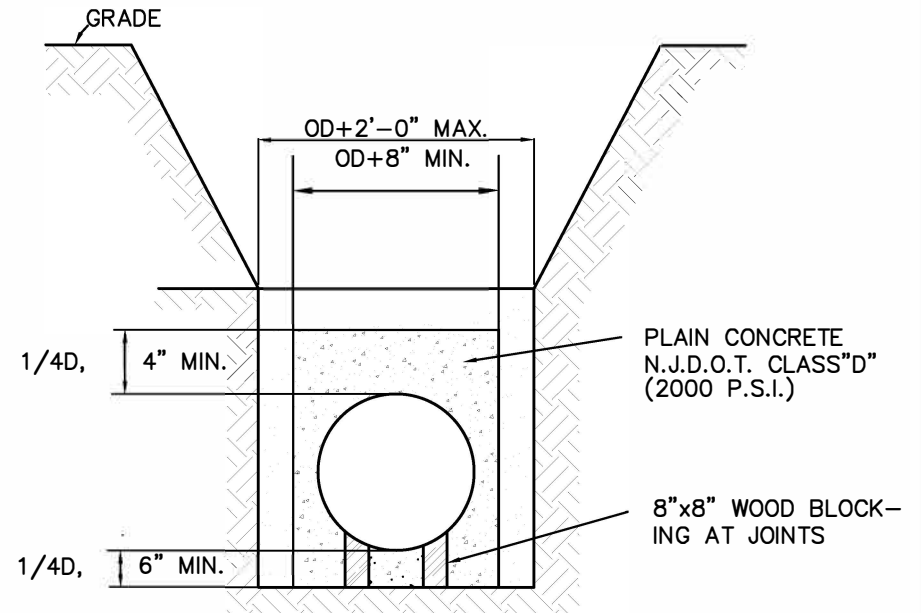
DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTS-17



CLASS A TYPE I
CONCRETE CRADLE



CLASS A TYPE II
CONCRETE ENCASEMENT



WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

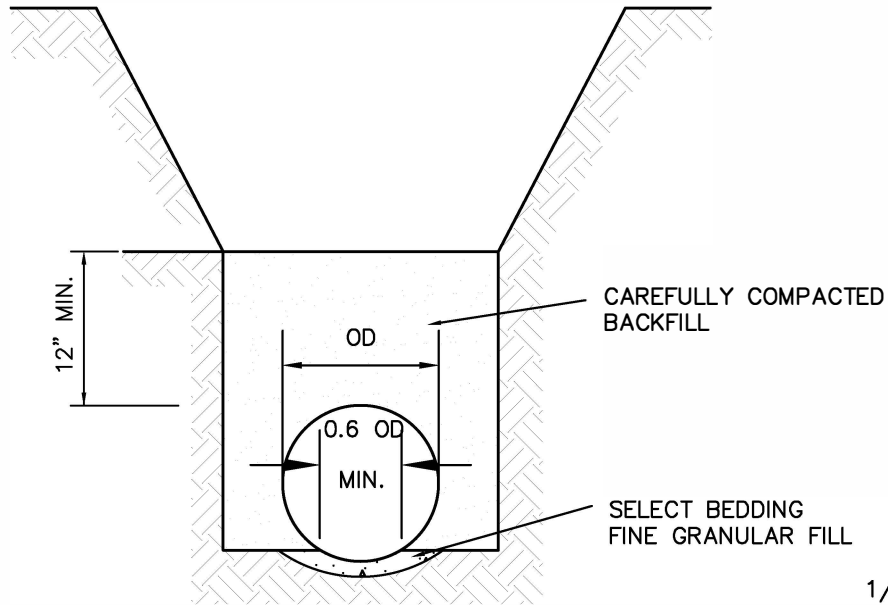
CONCRETE SUPPORT TRENCH DETAILS

DRAWN: J.J.M.

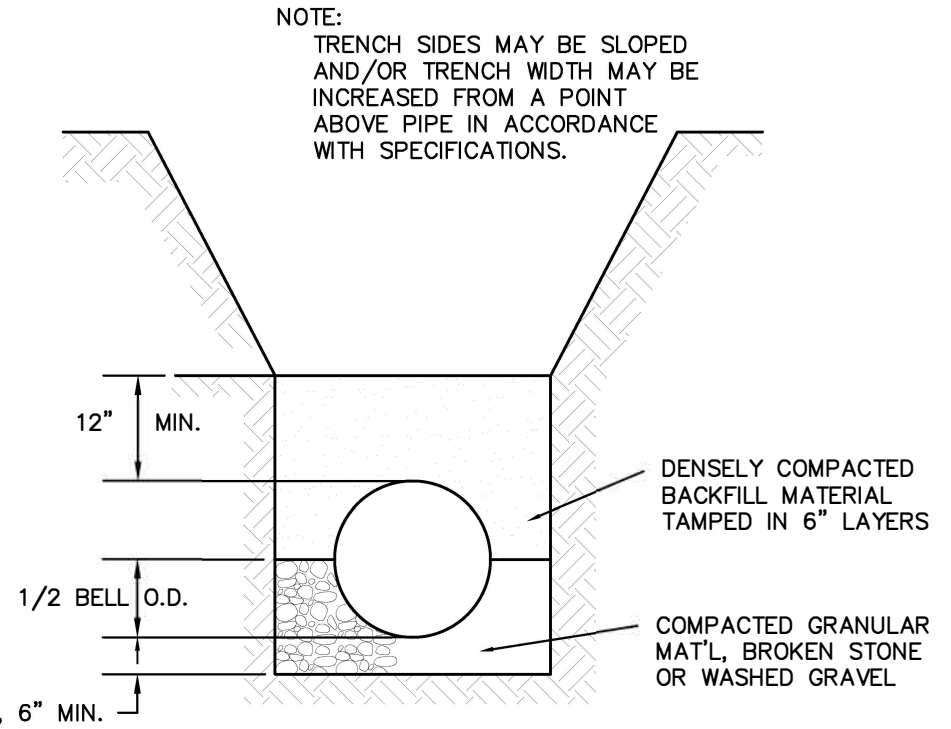
SCALE: N.T.S.

DETAIL #WTS-18

7/2025
REVISIONS

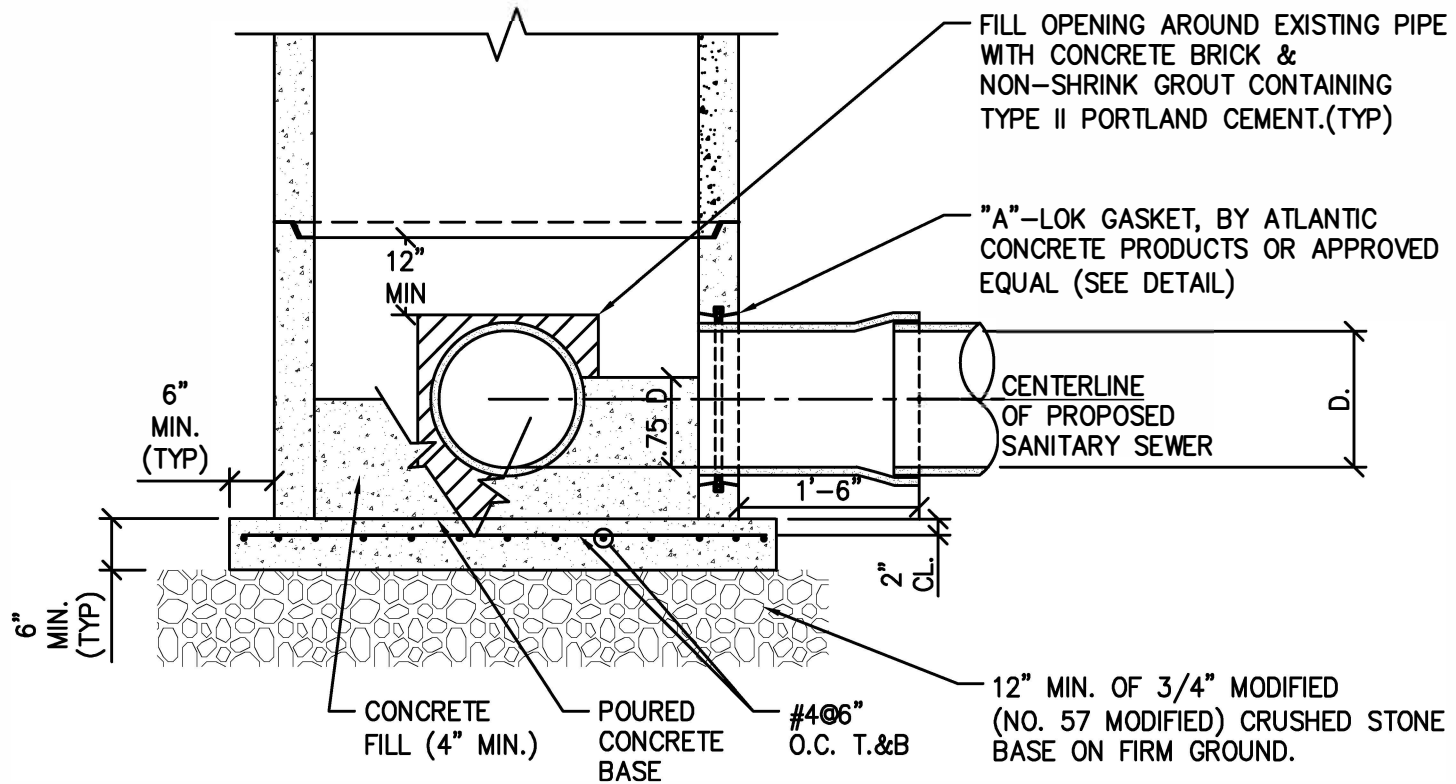


CLASS B TYPE I
TAMPED SELECT FILL



CLASS B TYPE II
COMPACTED GRANULAR BEDDING

7/2025 REVISIONS	RVE 1901	WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES ACTIVE ROADWAY TRENCH DETAILS	DRAWN: J.J.M. SCALE: N.T.S. DETAIL #WTS-19
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NOTES:

1. UNLESS NOTED OTHERWISE CONSTRUCT DOGHOUSE TYPE MANHOLE IN ACCORDANCE WITH TYPICAL 4'-0" DIAMETER MANHOLE DETAIL SHOWN ON THIS SHEET.
2. PLUG ABANDONED SANITARY SEWER PIPING AND FILL BENCH CREATED BY ABANDONED PIPING AS SHOWN AND AS DIRECTED BY THE ENGINEER.
3. FIRST SECTION SHALL BE MIN. 3' IN VERTICAL HEIGHT.

RVE

1901

WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

DOGHOUSE MANHOLE

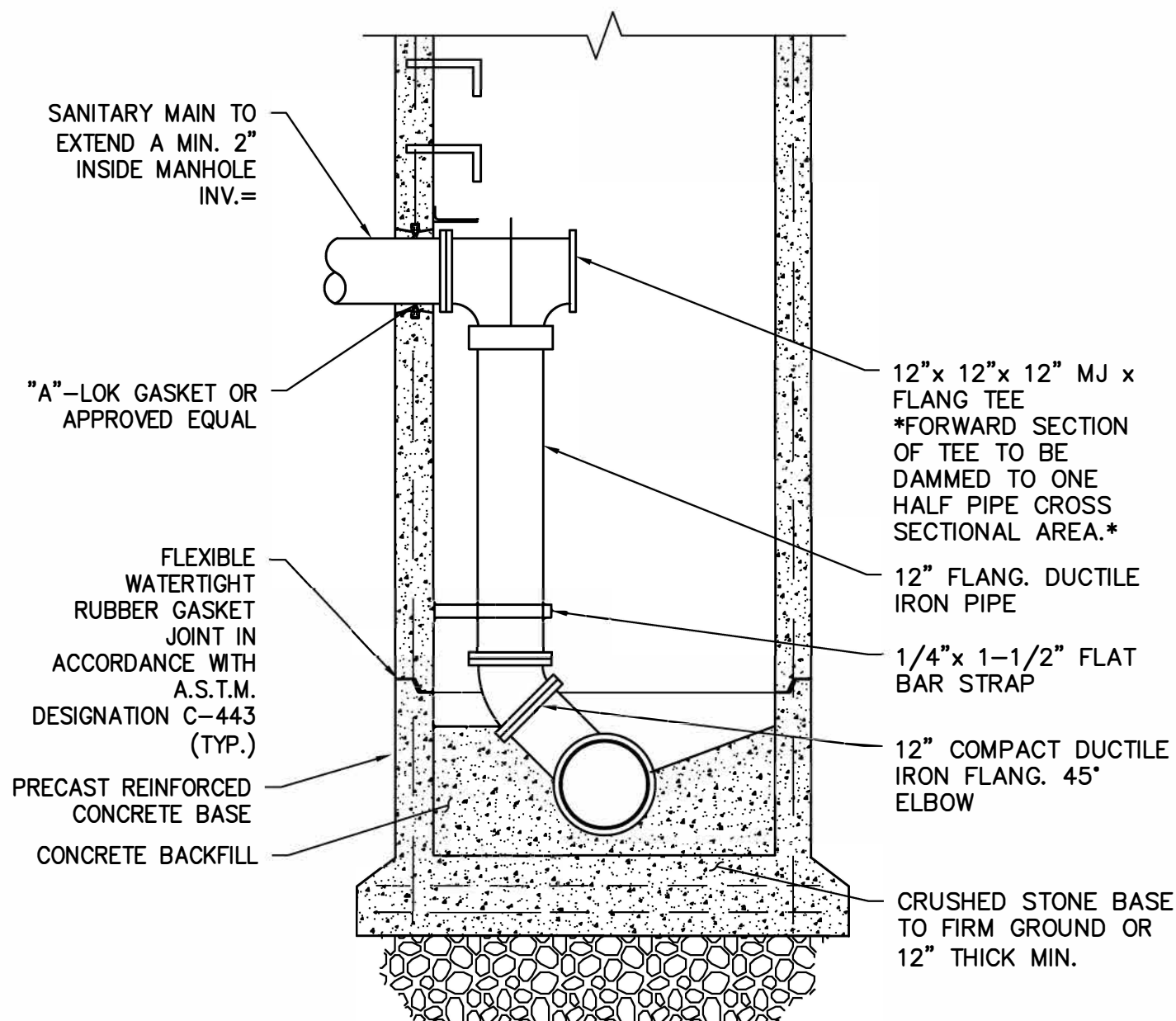
DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTS-20

7/2025

REVISIONS



RVE

1901

WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

INSIDE DROP MANHOLE FOR LATERALS

DRAWN: J.J.M.

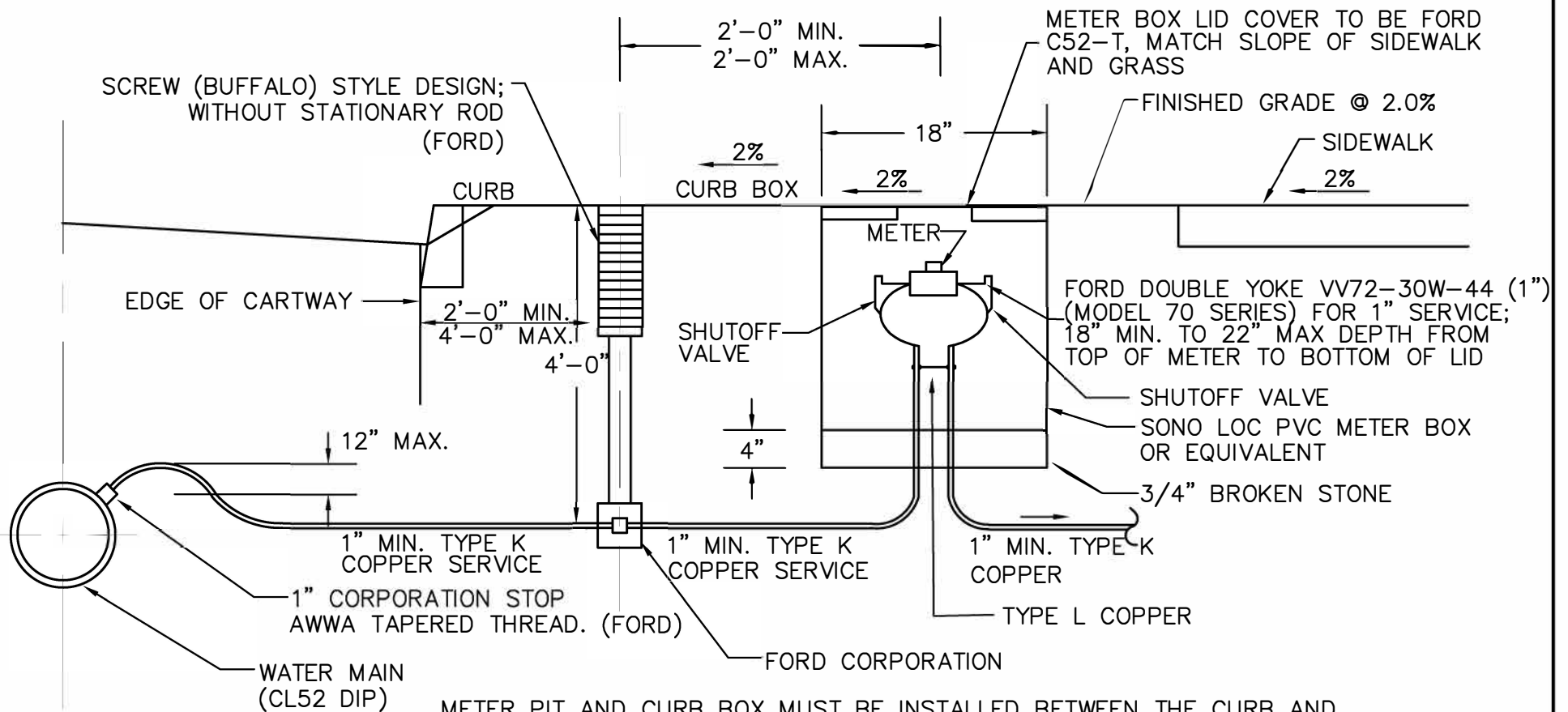
SCALE: N.T.S.

DETAIL #WTS-21

07/2025

REVISIONS

DETAIL INDEX (W.T.D.M.U.)		
DETAIL #	STANDARD WATER DETAIL DESCRIPTION	LAST REVISION DATE
WTW - 1	1" WATER SERVICE & METER PIT DETAIL - 5/8" AND 1" METER	7/2025
WTW - 1A	WATER SERVICE OWNER REPAIR RESPONSIBILITY DETAIL	7/2025
WTW - 2	FIRE HYDRANT DETAIL (WITH CURB)	7/2025
WTW - 3	FIRE HYDRANT DETAIL (WITHOUT CURB)	7/2025
WTW - 4	METER PIT AND BY-PASS DETAIL FOR 1 1/2" AND 2" WATER SERVICE	7/2025
WTW - 5	YARD HYDRANT	7/2025
WTW - 6	SAMPLING STATION	7/2025
WTW - 7	TYPICAL THRUST BLOCK	7/2025
WTW - 8	NOMAGRAPH BEARING AREA OF THRUST BLOCK	7/2025
WTW - 9	ROD RESTRAINING DETAIL	7/2025
WTW - 10	PRESSURE GAUGE ASSEMBLY	7/2025
WTW - 11	GENERAL NOTES	7/2025
WTW - 12	PRESSURE REDUCING VALVE	7/2025
WTW - 13	WATER AND SEWER DEMOLITION DETAIL	7/2025
WTW - 14	TAPPING SLEEVE AND VALVE (MUELLER)	7/2025



METER PIT AND CURB BOX MUST BE INSTALLED BETWEEN THE CURB AND THE SIDEWALK. HOWEVER, IF HANDICAP RAMP IMPEDES THIS, PIT MUST BE WITHIN PUBLIC R.O.W. METER SHALL BE INSTALLED 18" BELOW FINISHED GRADE. METER TO BE NEPTUNE E-CODER R900 I RADIO WITH A TRANSMITTER THROUGH THE LID ANTENNA AND 40" COAXIAL CABLE.

NOTES:

1. "NO-LEAD BRASS" REQUIRED NSF 61 ANNEX G 2" DIA. AND LESS
- 2A. WATER PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES (WATTS SERIES LF25AUB-Z3)
- 2B. REFER TO THE CURRENT NATIONAL PLUMBING CODE FOR INSULATION PURPOSES
3. WHERE NO CURB OR SIDEWALK EXISTS, CURB BOX MUST BE 2'-0" MIN, 4'-0" MAX. FROM THE EDGE OF ROADWAY
4. IF 2'-0" IS NOT POSSIBLE, CONTRACTOR TO SEEK PERMISSION FROM WINSLOW TOWNSHIP FOR PLACEMENT
5. PITS ARE TO BE INSTALLED STRIP/ GRASS AREA ONLY

RVE

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WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES

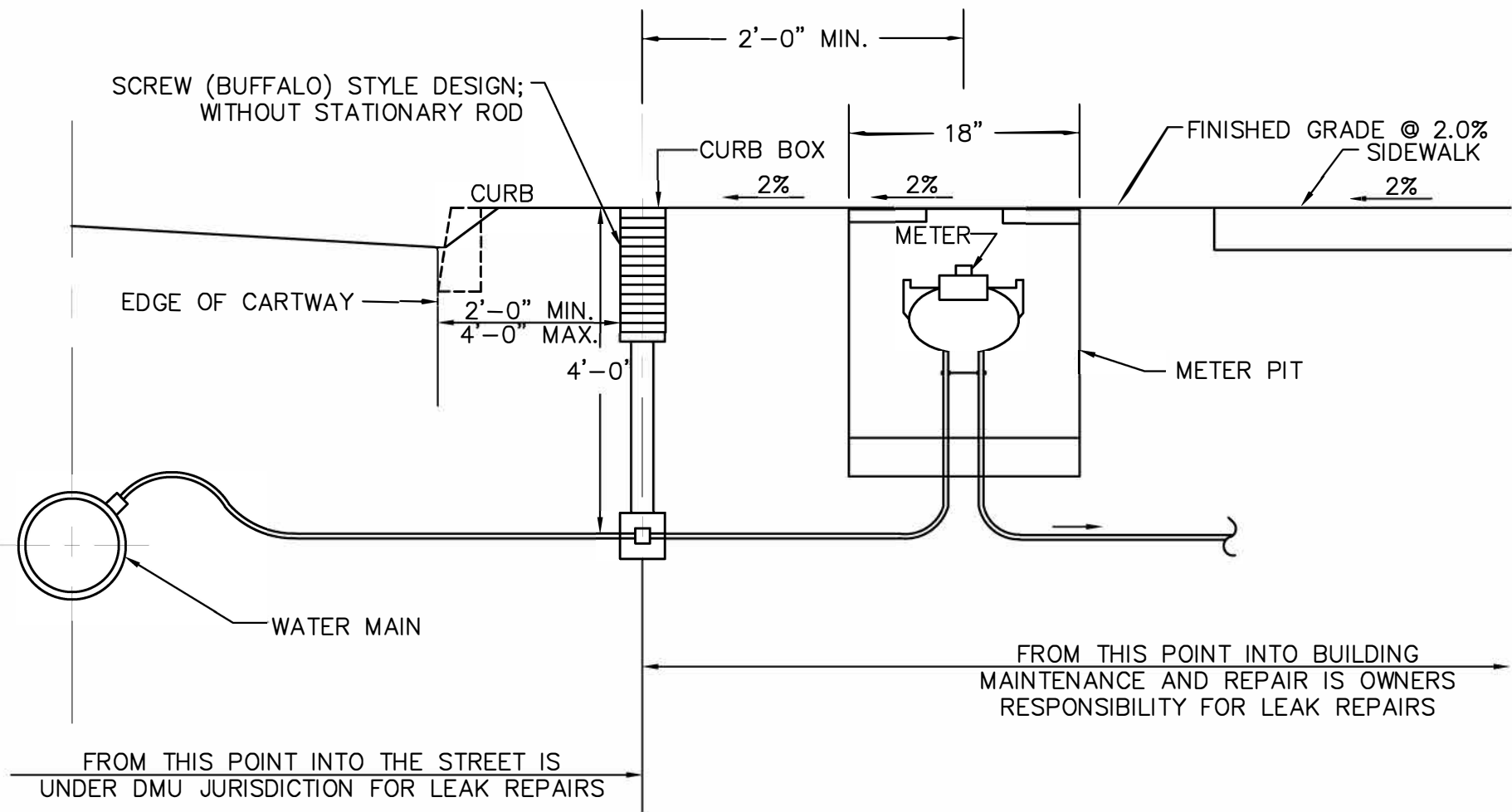
1" WATER SERVICE & METER PIT DETAIL
5/8" X 3/4" METER

DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTW-1

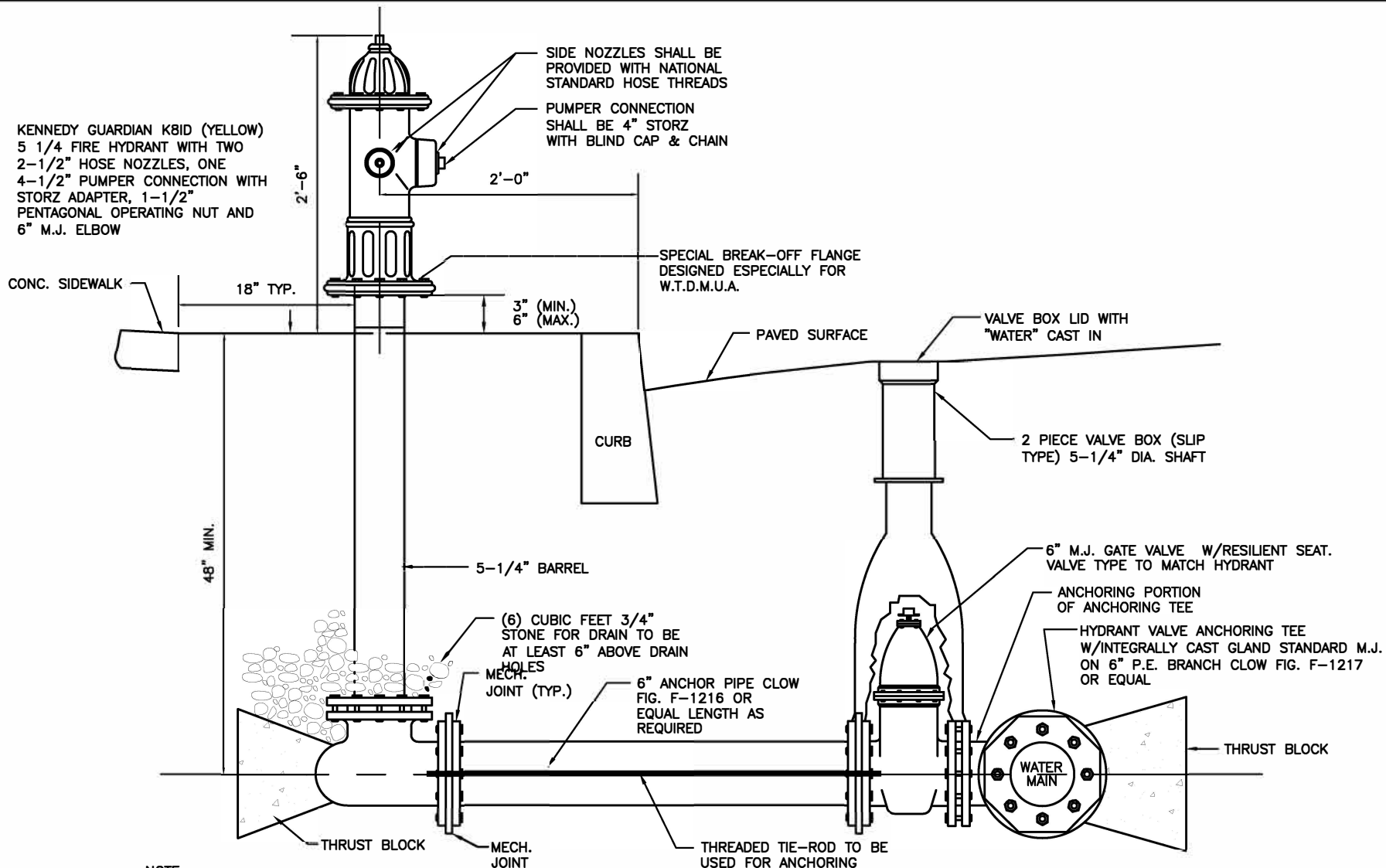
7/2025
REVISIONS



NOTES:

- WHERE METER PITS AND METER SETTERS ARE IN USE, THE OWNER IS RESPONSIBLE FOR REPAIR. THE DMU IS RESPONSIBLE ONLY FOR THE METER.

7/2025 4/2017 REVISIONS	RVE 1901	WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES WATER SERVICE OWNER REPAIR RESPONSIBILITY DETAIL	DRAWN: J.J.M. SCALE: N.T.S. DETAIL #WTW-1A
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NOTE:

CONTRACTOR SHALL PAINT HYDRANT. THE 2 1/2" HOSE NOZZLES, THE 4 1/2" PUMPER CONNECTION AND THE BONNET SHALL BE COLOR CODED TO DESIGNATE SIZE OF WATER MAIN W/MAB RUST-O-LASTIC, AS FOLLOWS:

BLUE #043-5321

COASTAL BODY OF HYDRANT TO BE
YELLOW FACTORY PAINTED

RVE

1901

WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES

FIRE HYDRANT DETAIL
(WITH CURB)

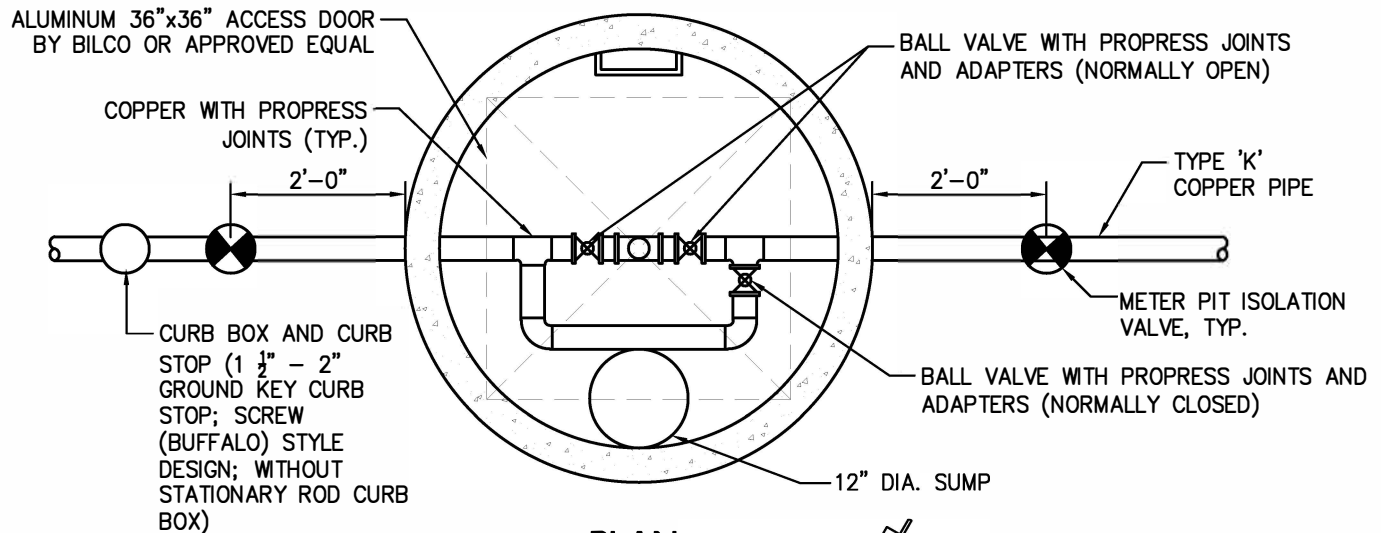
DRAWN: J.J.M.

SCALE: N.T.S.

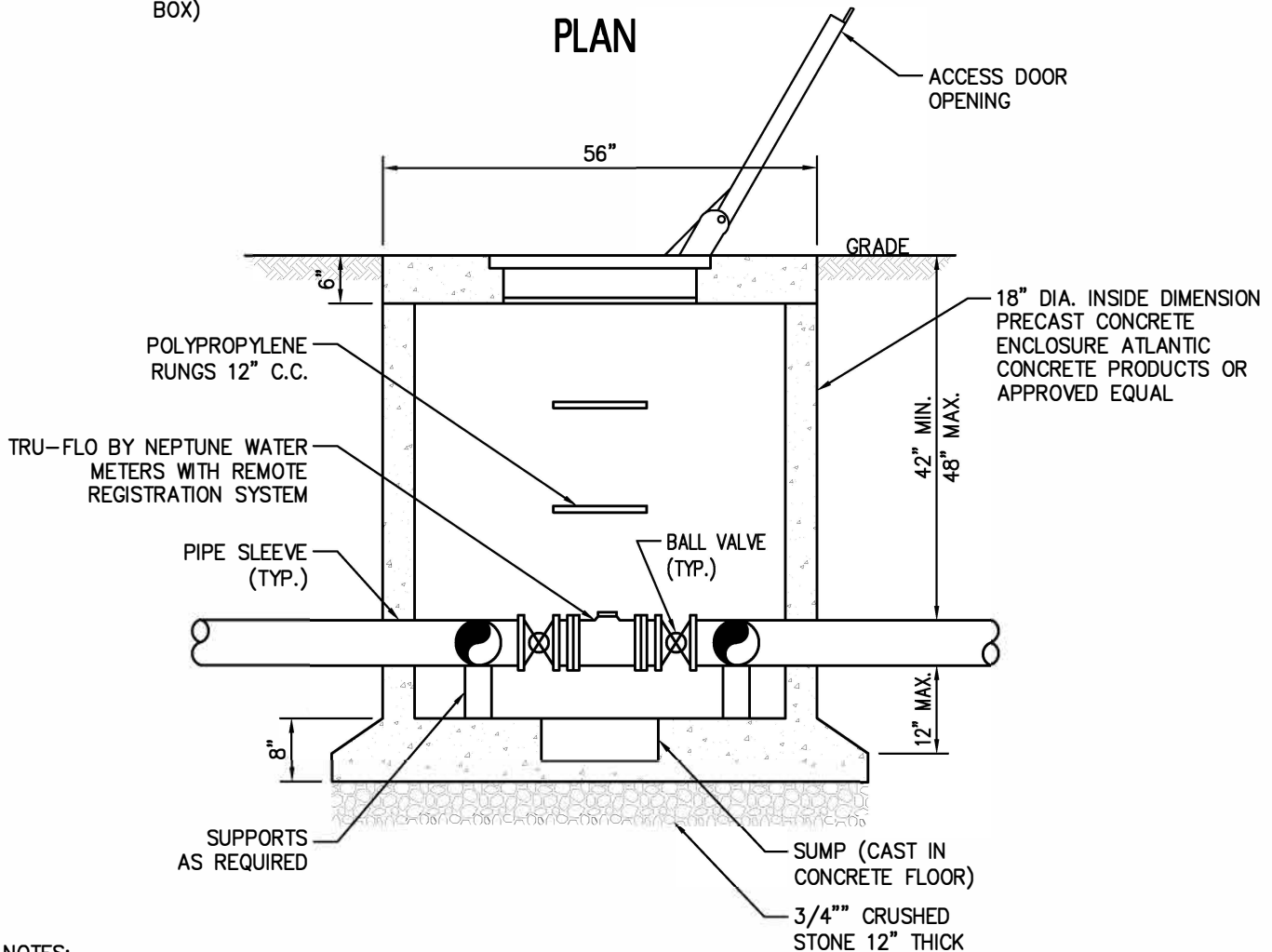
DETAIL #WTW-2

07/2025

REVISIONS



PLAN



NOTES:

1. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 4'-0" DIA. PRECAST MANHOLE DETAIL.
2. TOP SLAB REINFORCEMENT SHALL BE DESIGNED TO WITHSTAND H₂O WHEEL LOADS, NJ PE SIGNED AND SEALED CALCULATIONS SHALL BE PROVIDED BY THE PRECAST MANUFACTURER.
3. PIT NOT TRAFFIC RATED; NOT TO BE LOCATED IN TRAFFIC AREA.

RVE

1901

WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES

METER PIT AND BY-PASS DETAIL FOR
1 1/2" & 2" WATER SERVICE

DRAWN: J.J.M.

SCALE: N.T.S.

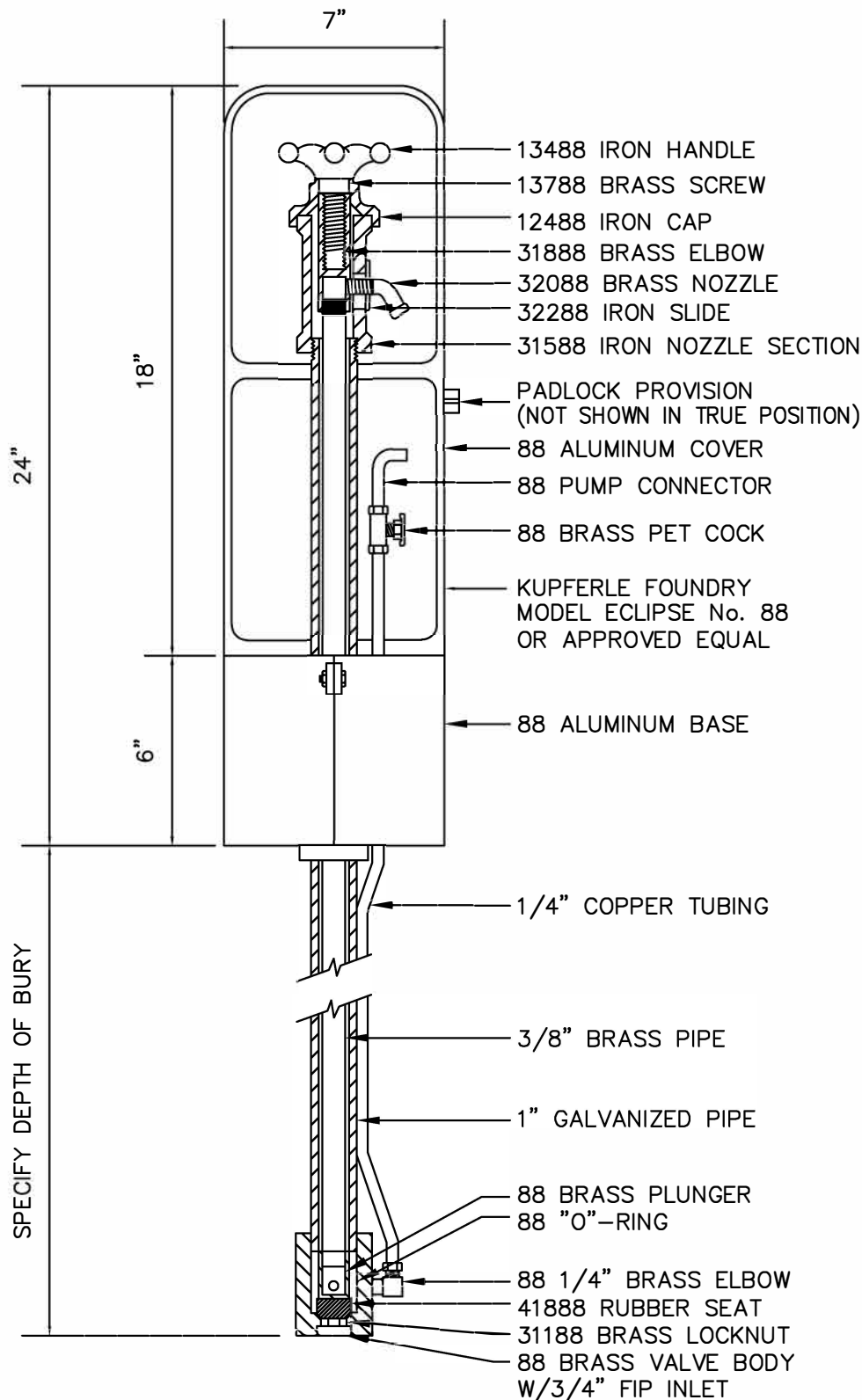
DETAIL #WTW-4

07/2025

REVISIONS

STANDARD
SPECIFICATIONS:

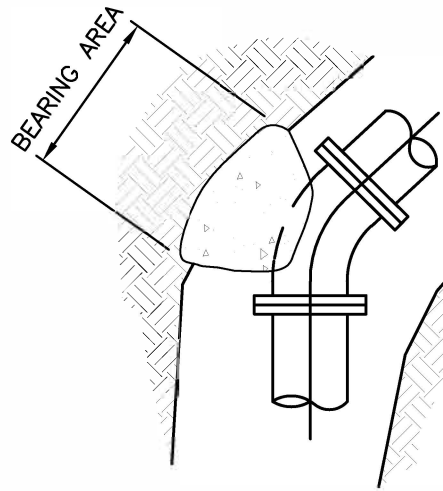
Sampling stations shall be 42" bury, with a 3/4" FIP inlet, and a (3/4" hose or unthreaded) nozzle. All stations shall be enclosed in a lockable, nonremovable, aluminum-cast housing. When opened, the stations shall require no key for operation, and the water will flow in an all-brass waterway. All working parts will also be of brass and be removable from above ground with no digging. A copper vent tube will enable each station to be pumped free of standing water to prevent freezing and to minimize bacteria growth. The exterior piping will be galvanized, as manufactured by Kupferle Foundry, St. Louis, MO 63102, model No. 88, or equal.



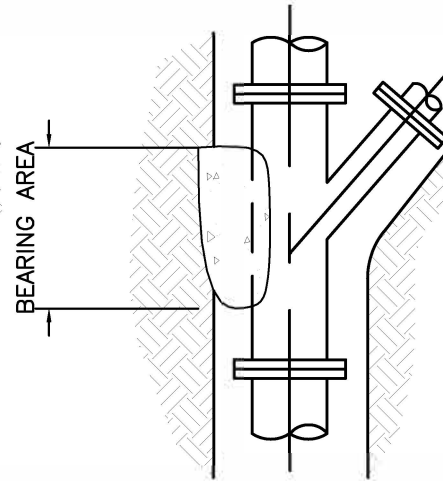
NOTE:

"NO-LEAD BRASS" REQUIRED NSF 61 ANNEX G
2" DIA. AND LESS

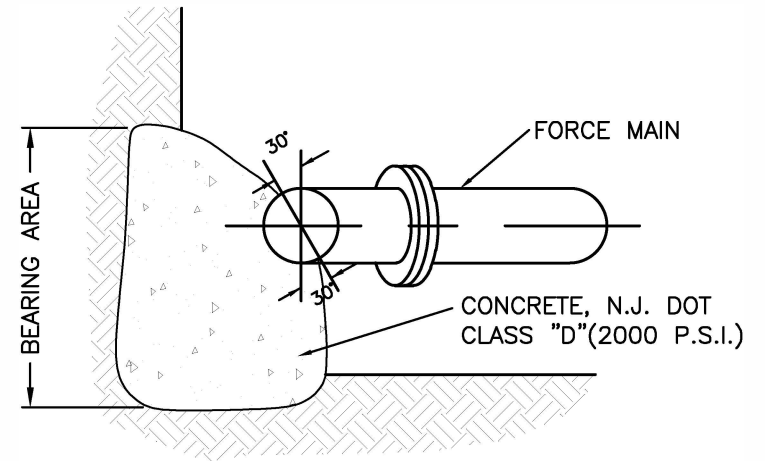
	RVE 1901	WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES	DRAWN: J.J.M.
07/2025		SAMPLING STATION	SCALE: N.T.S.
REVISIONS			DETAIL #WTW-6



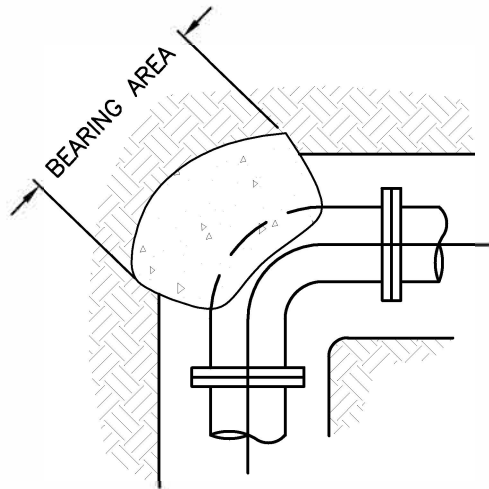
PLAN 45° ELBOW



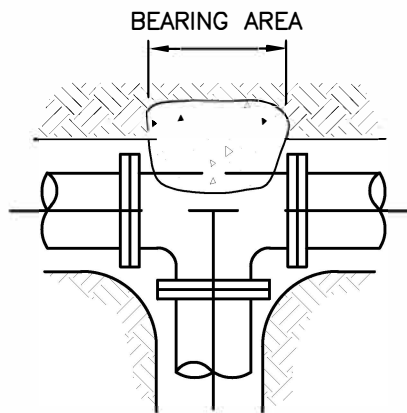
PLAN WYE BRANCH



TYPICAL SECTION

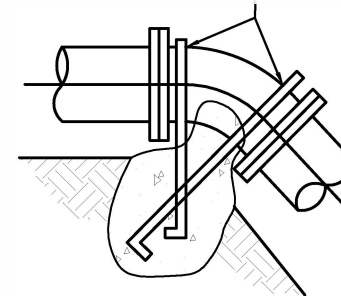


PLAN 90° ELBOW



PLAN TEE

AT VERTICAL BENDS, ANCHOR FITTINGS
TO RESIST OUTWARD THRUSTS



ELBOW TURNED DOWN

07/2025
REVISIONS



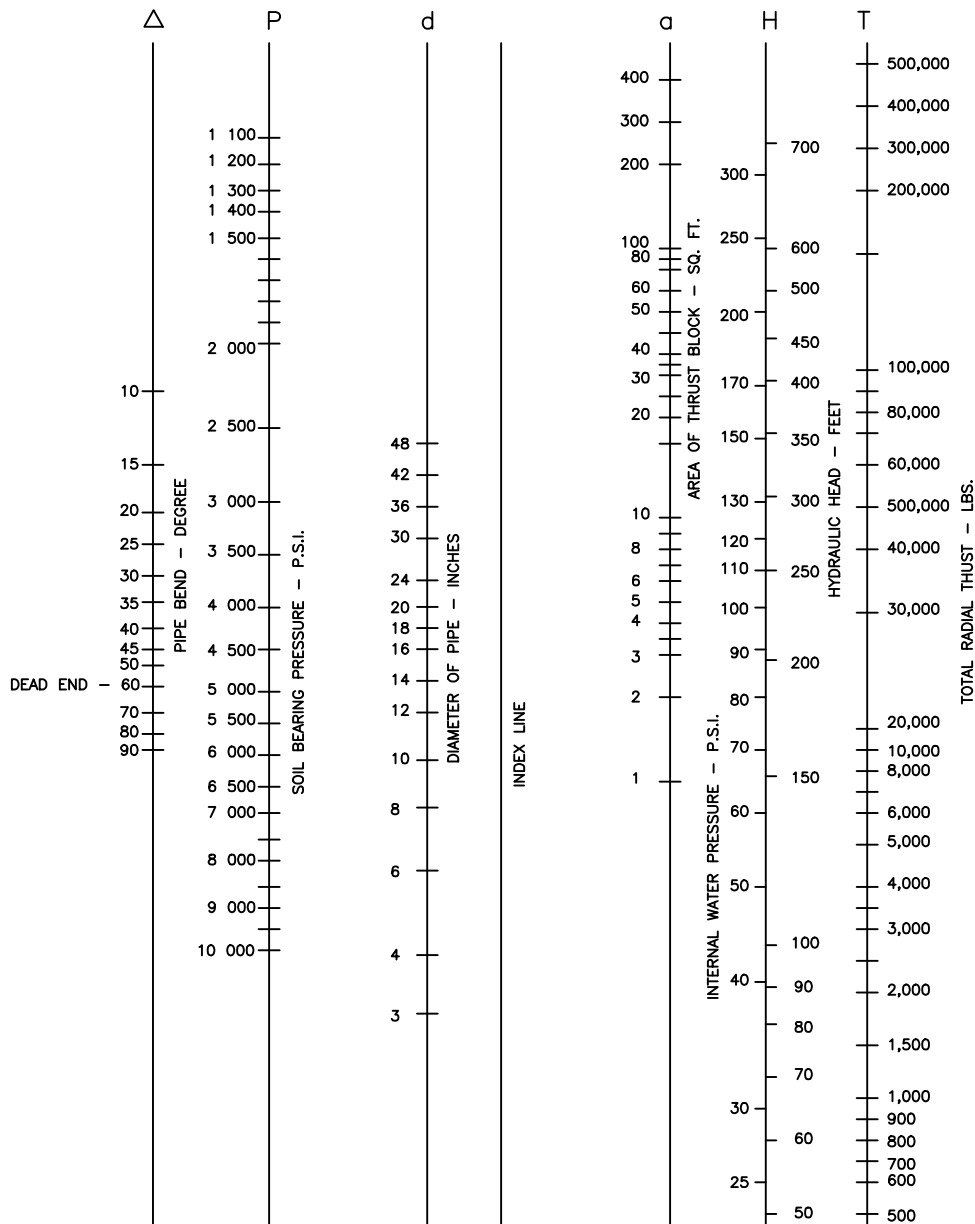
WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

TYPICAL THRUST BLOCK

DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTW-7



LEGEND

T - TOTAL RADIAL THRUST - LBS.
P - SOIL PRESSURE - PSI
a - AREA OF THRUST BLOCK - SF

H - HYDRAULIC HEAD - FEET
d - DIAMETER OF PIPE - INCHES
Δ - PIPE BEND - DEGREE

- STEP NO. 1 CONSTRUCT LINE FROM "DIAMETER OF PIPE" (d) TO "WATER PRESSURE/HYDRAULIC HEAD" (H) TO ESTABLISH POINT ON "INDEX LINE".
- STEP NO. 2 CONSTRUCT LINE FROM "PIPE BEND" (Δ) THRU ESTABLISHED POINT ON "INDEX LINE" TO INTERSECT "TOTAL RADIAL THRUST" (T) LINE.
- STEP NO. 3 CONSTRUCT LINE FROM POINT ON "TOTAL RADIAL THRUST" (T) LINE TO KNOWN POINT ON "SOIL BEARING PRESSURE" (P) LINE WHICH DETERMINES REQUIRED "AREA OF THRUST BLOCK (a)".
- GIVEN (A) 45° ELBOW
(B) HYDRAULIC HEAD OF 125 FEET
(C) SOIL BEARING PRESSURE OF 2,000 PSI
- (1) LINE d - H INDEX POINT
 - (2) LINE - INDEX POINT - T - (8,000 LBS.)
 - (3) LINE T - P - d (4 SF)
- REQUIRED THRUST BLOCK BEARING AREA - 4 SF.

RVE

1901

WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES

NOMAGRAPH BEARING AREA OF THRUST BLOCK

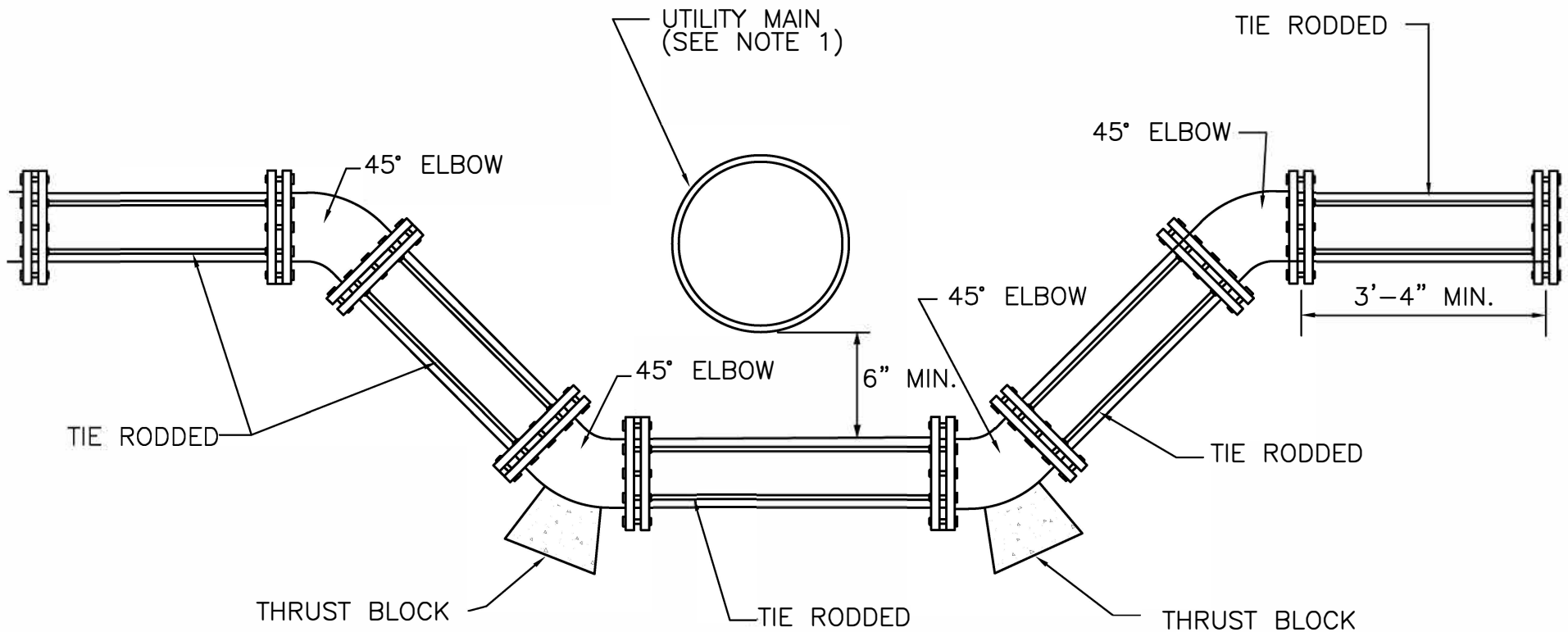
DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTW-8

07/2025

REVISIONS



NOTE:

1. IF CONFLICTING MAIN IS SANITARY OR STORM SEWER, MIN. VERTICAL SEPARATING SHALL BE 18" AND/ OR MIN. HORIZONTAL SEPARATION SHALL BE 4 FEET. IF SEPARATION IS NOT ACHIEVABLE, UTILITY MAIN SHALL BE ENCASED IN CONCRETE



WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

ROD RESTRAINING DETAIL

DRAWN: J.J.M.

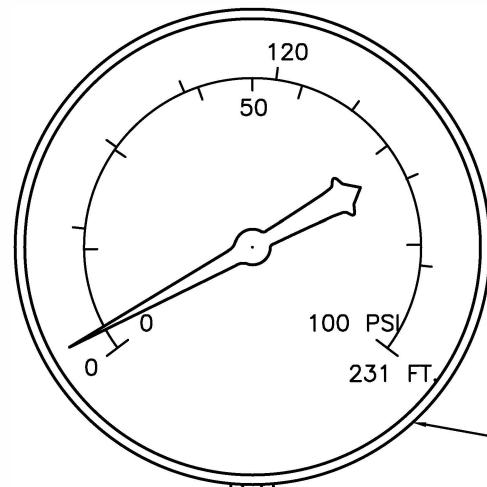
SCALE: N.T.S.

DETAIL #WTW-09

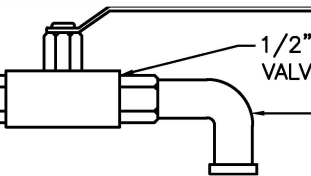
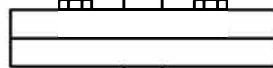
07/2025

REVISIONS

NOTE:
ALL FITTINGS ARE TO BE THREADED
BRASS. ALL JOINTS ARE TO BE SEALED
WITH NON-CEMENTING, NON-TOXIC
WATER PROOF SEALER.



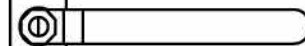
6" DIA. LIQUID FILLED
DIAPHRAGM PRESSURE
GAUGE WITH PSI/FT.
HEAD GRADATIONS



1/2" BALL
VALVE (TYP.)

1/2" O.D. BRASS
90° ELBOW

1/2" O.D. BRASS
NIPPLE (TYP.)



STOP NUT

THREADED TAP INTO C.L.D.I.P.
WITH FORD BRASS SERVICE
SADDLE

RVE

1901

WINSLOW TOWNSHIP
DEPARTMENT OF MUNICIPAL UTILITIES

PRESSURE GAUGE ASSEMBLY

DRAWN: J.J.M.

SCALE: N.T.S.

DETAIL #WTW-10

07/2025
REVISIONS

WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES GENERAL SANITARY SEWER & WATER NOTES

1. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AT NO COST TO THE DMU INCLUDING BUT NOT LIMITED TO ROAD OPENING PERMITS FROM THE TOWNSHIP/BOROUGH, COUNTY AND STATE.
2. THE APPLICANT/OWNER IS AWARE AND AGREES THAT THE REVIEW BY THE W.T.D.M.U. AND DMU ENGINEER IS BASED UPON THE BEST INFORMATION AVAILABLE AND IN NO WAY DOES IT GUARANTEE EXISTENCE OR NON-EXISTENCE OF SANITARY SEWER AND WATER MAINS AND OR APPURTENANCES. IT IS THE RESPONSIBILITY OF THE APPLICANT/OWNER TO VERIFY THE LOCATION OF SUCH MAINS AND/OR APPURTENANCES.
3. THE LOCATION AND DEPTHS OF EXISTING UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES OF PROPOSED EXCAVATION IN THE VICINITY OF SAID UTILITIES PRIOR TO CONSTRUCTION BY NOTIFYING THE UNDERGROUND UTILITIES NOTIFICATION SERVICE AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY EXCAVATION BY CALLING 1-800-272-1000.
5. THE CONTRACTOR SHALL NOTIFY THE ELECTRIC COMPANY/TELEPHONE COMPANY IN ADVANCE OF CONSTRUCTION FOR TEMPORARY SUPPORT OF UTILITY POLES.
6. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE PROPER TRAFFIC CONTROL TO THE SATISFACTION OF LOCAL, COUNTY AND STATE AUTHORITIES.
7. NO MATERIAL SHALL BE PLACED OR DISTURBED BEYOND THE PROPERTY LINE OR RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION OF THE PROPERTY OWNER DIRECTLY INVOLVED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING PAVING, PLANTINGS, ETC. IN KIND AND TOPSOILING, FERTILIZING AND SEEDING ALL AREAS DISTURBED BY HIS ACTIVITIES. ROAD PAVEMENT REPLACEMENT AND ALL RESTORATION IN DISTURBED AREAS SHALL MEET THE REQUIREMENTS OF THE ENGINEER.
9. WHENEVER THE TRENCH BOTTOM DOES NOT AFFORD SUFFICIENT BEARING STRENGTH TO SUSTAIN THE WEIGHT OF THE PIPE AND SUPERIMPOSED LOADS, THE TRENCH BOTTOM SHALL BE OVER EXCAVATED AND STABILIZED WITH SIX (6) INCH MINIMUM THICK LAYERS OF CRUSHED STONE, AS DIRECTED BY THE ENGINEER.
10. ALL TRENCHES WILL BE BACKFILLED BY COMPACTION IN SIX (6) INCH LAYERS IN STRICT ACCORDANCE WITH THE TRENCH DETAILS AND SPECIFICATIONS.
11. THE CONSTRUCTION SITE MUST BE SWEEPED AND CLEANED DAILY WITH NO TRENCHES OPEN OVERNIGHT.
12. ALL GENERAL CONSTRUCTION, MATERIALS, TESTING, AND METHODS OF INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE UTILITY DMU ENGINEER.
13. THE CONTRACTOR SHALL COMPLY WITH ALL STANDARDS SET FORTH IN THE UTILITY DMU'S RULES AND REGULATIONS AND THE "STANDARD WATER AND SEWER SPECIFICATIONS." MANUAL.
14. INSPECTION OF, OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY THE ENGINEER FOR THE UTILITY DMU SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND APPLICABLE LAWS.
15. THE CONTRACTOR SHALL SUPPLY THE DMU ENGINEER WITH COMPLETE AS-BUILTS OF ALL UTILITY INSTALLATIONS AND APPURTENANCES PRIOR TO THE DMU ENGINEER WITNESSING TESTING OF THE SYSTEMS.
16. COVER OVER ALL WATER MAINS SHALL BE 4'-0" MINIMUM.
17. ALL PROPOSED WATER MAINS SHOULD HAVE THRUST BLOCKS AT ALL BENDS AND TEES.
18. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF EACH WATER SERVICE LINE WITH THE PROPERTY OWNER DIRECTLY INVOLVED.
19. ALL FOUR (4) INCH AND LARGER WATER PIPING SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON PIPE WITH PUSH-ON JOINTS. WATER PIPING SMALLER THAN THREE (3) INCHES SHALL BE TYPE "K" SOFT TEMPER COPPER TUBING WITH COMPRESSION FITTINGS. ALL WATER PIPING SHALL HAVE FORTY-EIGHT (48) INCH MINIMUM OF COVER. WATER PIPING SHALL BE DISINFECTED BY CONTACT WITH A CHLORINE SOLUTION NO LESS THAN FIFTY (50) PPM FOR NOT LESS THAN TWENTY-FOUR (24) HOURS BY THE CONTRACTOR AND CERTIFIED IN WRITING BY CONTRACTOR.
20. WATER MAINS AND SANITARY SEWER SHALL BE SEPARATED BY TEN (10) FEET HORIZONTALLY WHEREVER POSSIBLE. OTHERWISE, THE SANITARY SEWER AND WATER SHALL BE IN SEPARATE TRENCHES WITH THE SANITARY SEWER 18 INCHES MINIMUM BELOW THE WATER MAIN. THE SANITARY SEWER SHALL BE 18 INCHES BELOW THE WATER MAIN AND/OR STORM PIPE AT ALL CROSSINGS. WHERE THE SANITARY SEWER CROSSES OVER OR WITHIN 18 INCHES UNDER A WATER MAIN AND/OR STORM PIPE, THE SANITARY SEWER SHALL BE DUCTILE IRON PIPE WITH SLIP-ON JOINTS FOR TEN (10) FEET EACH SIDE OF THE CROSSING.
21. ALL PROPOSED FORCEMAINS SHALL HAVE THRUST BLOCKS AT ALL BENDS.
22. ALL PVC FORCE MAINS SHALL BE INSTALLED WITH TRACING WIRE.
23. ALL SANITARY SEWER MAIN INSTALLED AT A DEPTH FROM 0 TO 12 FEET SHALL BE POLYVINYL PIPE (PVC) MEETING ASTM 03034 SDR-35 WITH 8"x4" TEES WYES AT ALL LATERAL INTERCONNECTIONS. LOCATIONS AND SLOPES OF THE MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. ALL SANITARY SEWER MAIN INSTALLED AT A DEPTH FROM 12 TO 20 FEET SHALL BE SDR35-26 PVC PIPE. ANY SEWER MAIN GREATER THAN 20 FEET SHALL BE DUCTILE IRON PIPE CLASS 52 WITH "PROTECTO 401" CERAMIC EPOXY LINED BY U.S. PIPE OR GRIFFEN "H" SEWER SAFE" PIPE.
24. ALL SANITARY SEWER LATERALS SHALL BE POLYVINYL CHLORIDE PIPE (PVC) MEETING ASTM 03034 SDR 26-35. LOCATIONS AND SLOPES OF THE LATERALS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
25. SANITARY SEWER LATERALS SHALL CONFORM TO STANDARD INSTALLATION REQUIREMENTS AND MAY NOT BE CONNECTED DIRECTLY INTO MANHOLES.
26. SANITARY SEWER MANHOLES SET IN LOCATIONS SUBJECT TO SHEET FLOWS OF WATER (I.E.; GUTTER LINE OF ROAD) SHALL HAVE WATERTIGHT FRAME AND LID; BRIDGESTATE PATTERN #1012A WITH FLOW SEAL WATERTIGHT COVER.
27. SANITARY SEWER MANHOLES SET IN OTHER THAN PAVED ROADWAYS (I.E.; GRASSY EASEMENTS) SHALL HAVE LOCKING LIDS; BRIDGESTATE PATTERN #1460A.
28. ALL PROPOSED BASEMENTS WHICH ARE TO UTILIZE SEWER SERVICES, MUST INSTALL A SUITABLE CHECK VALVE ALONG ALL APPLICABLE SANITARY SEWER LATERALS.
29. A TRAFFIC PROTECTOR CLEANOUT SHALL BE USED IN AREAS WHERE TRAFFIC WILL TRAVEL OVER A CLEANOUT.
30. SANITARY CLEANOUTS SHALL BE INSTALLED AT ALL PIPELINE DEFLECTORS GREATER THAN 45' AND AT A SPACING NO MORE THAN 50 FEET.
31. EASEMENT DEDICATED TO W.T.D.M.U. SHALL ONLY CONTAIN UTILITY LINES OWNED AND MAINTAINED BY THE W.T.D.M.U.
32. ALL NEW SANITARY LINES ARE TO BE TELEVIEWED AFTER INSTALLATION IS COMPLETE, AND AGAIN BEFORE BONDS ARE RELEASED WITH A DVD OF RESULTS SUPPLIED TO THE W.T.D.M.U.

		WINSLOW TOWNSHIP		DRAWN: J.J.M.
		DEPARTMENT OF MUNICIPAL UTILITIES		SCALE: N.T.S.
		GENERAL NOTES		DETAIL #WTW-11
07/2025				
REVISIONS				

REVISIONS



WATER PRESSURE REDUCING VALVE

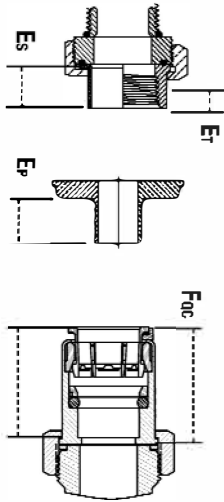
REMINGTON & VERRICK ENGINEERS
WINSLOW TWP. MUNICIPAL DEPARTMENT

DRAWN: J.G.

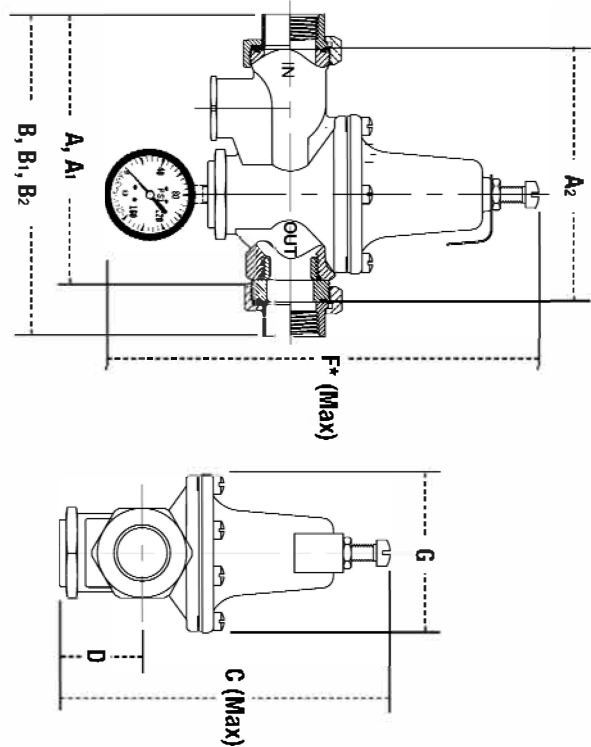
SCALE: N.T.S.

DETAIL #WTW-12

Dimensions — Weights



- A - LF25AUB-Z3
- A₁ - LF25AUB-S-Z3
- A₂ - LF25AUB-DU-LF-Z3
- B - LF25AUB-DU-LF-Z3
- B₁ - LF25AUB-S-DU-Z3
- B₂ - LF25AUB-DU-THDXPEX-Z3
- E₁ - NPT Engagement for tight joint
- E₂ - Female sweat socket depth
- E₃ - PEX end connection
- F_{OC} - Quick-Connect union



SIZE (DN)

in.	mm	A	A ₁	A ₂	B	B ₁	B ₂	C
1/2	15	5 5/8	137	135	5 3/8	132	6 1/8	164
3/4	20	5 5/8	135	140	5 1/4	133	6 1/2	165
1	25	6	152	159	5 7/8	149	7 3/8	187
1 1/4	32	8 3/4	222	227	8 1/4	210	10 3/4	273
1 1/2	40	8 3/4	222	229	8 1/4	210	10 3/4	273
2	50	9 1/4	235	254	8 3/4	222	11 3/16	284
								11 1/4

DIMENSIONS

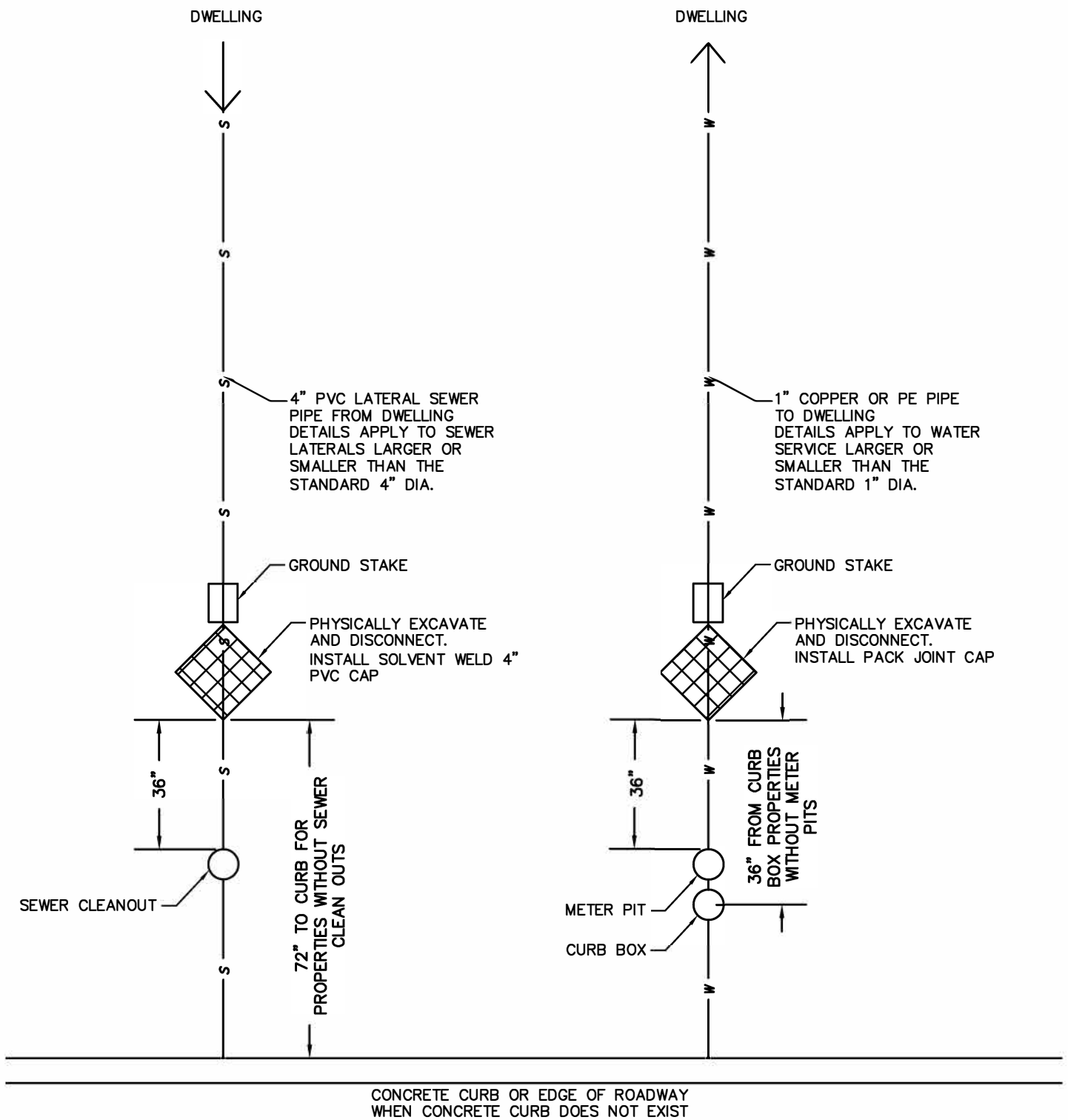
SIZE (DN)

in.	mm	D	F ^Δ	G	E ₁	E ₂	E ₃	F _{OC}
1/2	15	1 1/2	38	9 1/8	240	3 1/8	79	1 1/2
3/4	20	1 1/2	38	9 1/8	240	3 1/8	79	1 1/2
1	25	1 3/4	44	10 7/8	266	3 5/8	92	1 5/8
1 1/4	32	2 1/8	54	11 7/8	291	3 5/8	92	2 1/8
1 1/2	40	2 3/8	60	11 5/8	304	4 1/8	103	2 3/8
2	50	3 1/4	83	13 1/8	348	4 3/4	121	3 1/4

DIMENSIONS

WEIGHT

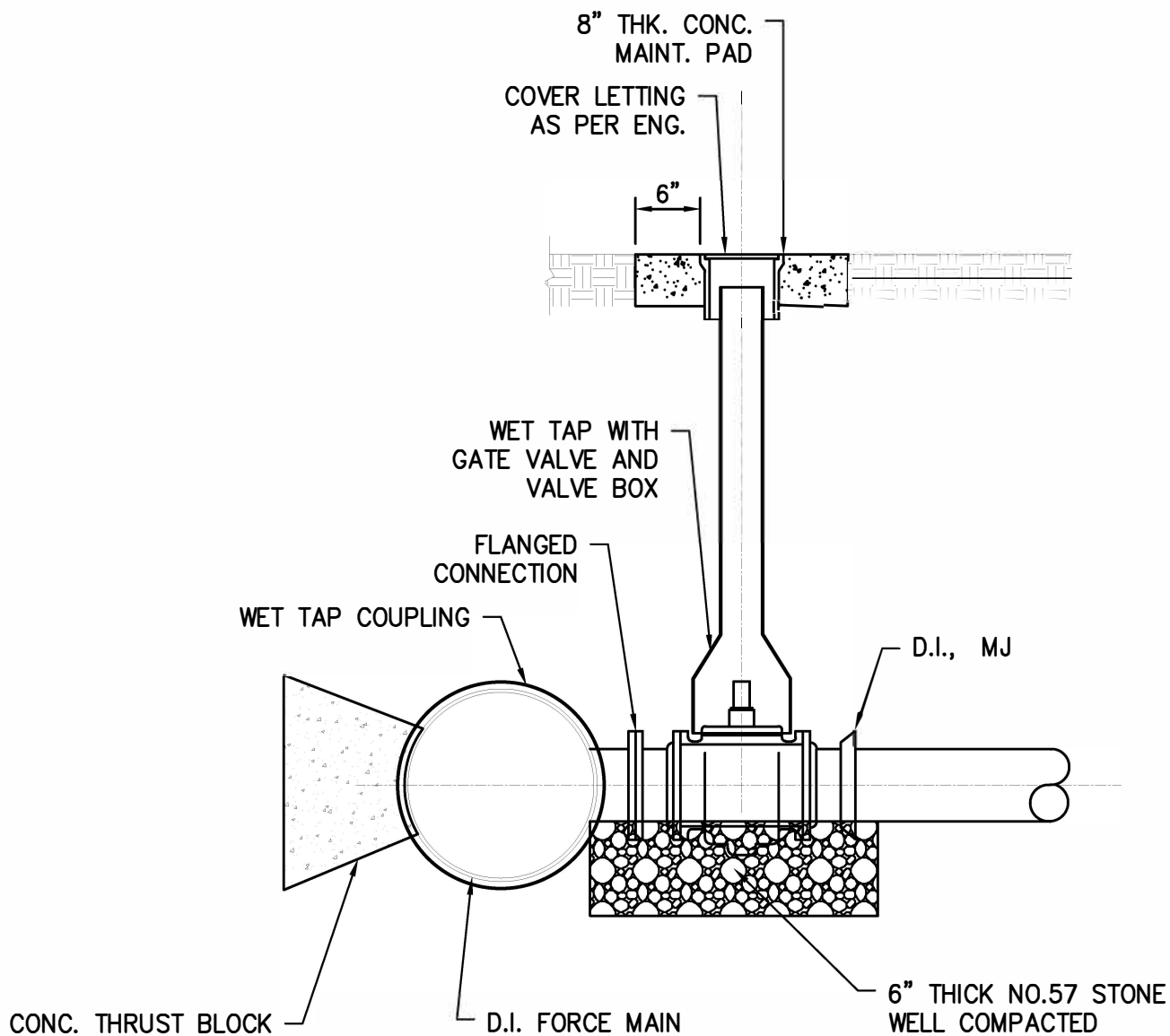
^Δ Dimension includes optional gauge



NOTE:

1. GROUND STAKES TO BE INSTALLED 4FT. ABOVE GROUND LEVEL FOR PERMANENT IDENTIFICATION.
2. UTILITIES DEPT. PERSONNEL WILL INSPECT.
3. 24HR NOTICE REQUIRED FOR INSPECTION.

07/2025 REVISIONS		WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES WATER AND SEWER DEMOLITION DETAIL	DRAWN: J.G. SCALE: N.T.S. DETAIL #WTW-13
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WET TAP DETAIL

07/2025 REVISIONS		WINSLOW TOWNSHIP DEPARTMENT OF MUNICIPAL UTILITIES	DRAWN: J.J.M.
			SCALE: N.T.S.
		TAPPING SLEEVE AND VALVE (MUELLER)	DETAIL #WTW-14